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June 10, 2005

Project Number N5967

Commander, Southern Division
Naval Facilities Engineering Command
ATTN: Mr. Byas Glover (ES24)
2155 Eagle Drive
North Charleston, South Carolina 29419-9010
(PLA: NAVFAC EFD SOUTH
CHARLESTON SC)
UIC: 62467

Reference: CLEAN Contract Number N62467-94-D-0888
Contract Task Order Number 0302

Subject: Enhanced Natural Attenuation Treatability Study
Fifth Quarter Groundwater Monitoring Letter Report
Underground Storage Tank (UST) Site 1120
Outlying Landing Field (OLF) Bronson, Naval Air Station (NAS) Pensacola
Pensacola, Florida

Dear Mr. Glover:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit the Enhanced Natural Attenuation (NA) Treatability Study Fifth Quarter Groundwater Monitoring Letter Report for the referenced Contract Task Order (CTO). This report was prepared for the United States Navy (Navy) Southern Division, Naval Facilities Engineering Command for the Comprehensive Long-term Environmental Action Navy (CLEAN) Contract Number N62467-94-D-0888. This letter report provides the results of the fifth quarter groundwater monitoring event conducted in March 2005 and summarizes the treatability study activities conducted to date at UST Site 1120.

Site Summary

OLF Bronson is located in northwest Florida, on the east side of Perdido Bay, approximately five miles west of Pensacola, Florida and about one mile from the Alabama State Line. OLF Bronson, which consists of approximately 950 acres of grassy areas and forest, is now known as the Blue Angel Recreation Park and is used for recreational purposes. UST Site 1120, located within the confines of OLF Bronson, is the former location of a boiler room associated with Building 1120. Three USTs were used to supply fuel oil to the boiler. The USTs have been removed from the site and the building demolished. The locations of site features and monitoring wells are shown on Figure 1.

Petroleum contamination was observed at the site on June 27, 1994 during the removal of the USTs from Building 1120. UST Closure Assessments were completed in July 1994 and May 1995, followed by the initial site assessment completed in August 1997. Upon review of the Site Assessment Report (SAR), the Florida Department of Environmental Protection (FDEP) issued a technical review letter, which requested additional site assessment in order to meet the requirements of Chapter 62-770, Florida Administrative Code (FAC). The SAR Addendum (SARA) investigation was conducted in July 2000. Based on the additional site assessment data, the SARA report (May 23, 2001) recommended monitored NA as an appropriate remedy. On August 8, 2001, FDEP issued a request for a Monitoring Only Plan (MOP)

proposal for the site. On December 12, 2001, TtNUS submitted to FDEP the MOP proposal for UST Site 1120, which was approved on April 2, 2002 by the FDEP in an Approval Order that outlined the requirements for NA monitoring at the site.

TtNUS personnel conducted the first and second quarterly groundwater monitoring events in April 2002 and July 2002, respectively. Data collected during the second quarterly groundwater monitoring event indicated that concentrations of contaminants of concern (COCs) in the groundwater exceeded FDEP site-specific action levels. A confirmation sampling event was completed in September 2002, which confirmed the exceedance. Based on these results, TtNUS recommended that an Enhanced NA Treatability Study using Oxygen-Release Compound (ORC®) be completed at UST Site 1120.

Enhanced NA Treatability Study

The following activities were scoped for the treatability study at UST Site 1120:

- The baseline groundwater monitoring event
- The ORC® injection event
- Quarterly post-injection groundwater monitoring

The baseline groundwater monitoring event was conducted June 24 through 26, 2003 and the ORC® injection event was conducted from July 13 to 19, 2003. The locations of the ORC® injection points are shown on Figure 2. Details of the various treatability study tasks are provided in the "Enhanced Natural Attenuation Treatability Study Work Plan for Site 1120, Outlying Landing Field Bronson" submitted in May 2003. Following the ORC injection, quarterly sampling events were completed in September 2003, December 2003, March 2004, and June 2004. The site was scheduled for additional quarterly sampling in September 2004, however the landfall of Hurricane Ivan on September 16, 2004 in the Pensacola area restricted site access and delayed all proposed work.

Groundwater Monitoring Activities

TtNUS personnel conducted the fifth quarterly groundwater monitoring event from March 1 through March 3, 2005. The fifth quarter groundwater monitoring event included:

- Measurement of static water levels (SWLs) in site monitoring wells to determine groundwater elevation/flow direction.

- Collection of groundwater samples from selected monitoring wells for laboratory analysis of previously identified COCs.

- Field and laboratory analyses for NA parameters.

The locations of site features and monitoring wells are shown on Figure 2.

Groundwater samples for field and laboratory analysis were collected from the following monitoring wells during the fifth quarter groundwater sampling event:

- MW-01
- MW-02
- MW-04
- MW-5R
- MW-07
- MW-14R
- MW-16R
- MW-18
- MW-24
- MW-27
- MW-28
- MW-32
- DMW-35

Groundwater samples were collected from the monitoring wells in accordance with the current FDEP Standard Operating Procedures (SOPs). Depth-to-water was measured and the wells were purged prior to sample collection. Purging was accomplished with a peristaltic pump using the low flow purge technique. During purging, field parameters [pH, conductivity, temperature, dissolved oxygen (DO), and oxidation-reduction potential] were measured at approximately three minute intervals using a Horiba U-22 multiparameter instrument equipped with a flow-through cell. The instrument was calibrated according to the manufacturer's specifications at the beginning of each day. In addition, turbidity was monitored using a La Motte turbidity meter.

Following the well purging activities, the groundwater samples were analyzed in the field for the following NA parameters: ferrous iron, alkalinity, carbon dioxide (CO_2), DO, and hydrogen sulfide (H_2S). Groundwater Sample Log Sheets compiled during purging and sampling at each location are provided in Attachment A.

Laboratory Analysis

Groundwater samples were collected from site monitoring wells for off-site analysis of:

- Benzene, ethylbenzene, toluene, and total xylenes (BTEX) and methyl-tert-butyl ether (MTBE) by United States Environmental Protection Agency (USEPA) SW 846 Method 8260B
- Polynuclear aromatic hydrocarbons (PAHs) by SW 846 Method 8270 with selective ion monitoring (SIM)
- Total recoverable petroleum hydrocarbons (TRPH) by the Florida Petroleum Range Organics (FL-PRO) method
- Total Organic Carbon (TOC) by USEPA Method 415.1
- Sulfate by USEPA Method 375.4

After collection, groundwater samples were placed on ice and shipped overnight via Federal Express to Accura Analytical Laboratories in Norcross, Georgia. The validated groundwater analytical reports are included in Attachment B.

Groundwater Elevation and Flow Direction

The water level data collected on March 1, 2005 are presented in Table 1. The top-of-casing elevations for the monitoring wells at UST Site 1120 were surveyed previously using an arbitrary 30-foot vertical datum (the top-of-casing of MW-01). The water level data were used to estimate groundwater elevation and flow direction at the site (Figure 3). Free product was not detected in the site monitoring wells.

The water level data collected during the fifth quarter sampling event indicate that groundwater flow in the UST Site 1120 area is generally to the southwest. A Groundwater Potentiometric Surface Map for the March 1, 2005 sampling event is provided as Figure 4. A localized groundwater elevation high occurred in the area of MW-5R and the former location of the USTs. This flow direction is consistent with previously reported groundwater flow data. Groundwater elevations measured during the fifth quarter sampling event were higher than the elevations measured during the fourth quarter sampling event.

Groundwater Analytical Results

The analytical results for the groundwater samples collected at UST Site 1120 during the fifth quarter sampling event have been compared to the appropriate groundwater cleanup target levels (GCTLs) and site specific NA action levels. The analytical results for the monitoring wells are summarized in Table 2. The sampling locations with GCTL exceedances are shown on Figure 5.

The analytical results for the fifth quarter groundwater sampling event indicate that only one of the sampled monitoring wells contained analytes at concentrations above Florida GCTLs. The sample from monitoring well MW-14R contained of 1-methylnaphthalene [120 micrograms per liter (µg/L)], 2-methylnaphthalene (140 µg/L) and naphthalene (62 µg/L) all at concentrations less than the source area action level of 200 µg/L for each of the compounds established for contaminated wells in the MOP Approval Order. However, the detected concentration of each of the aforementioned compounds exceeded their respective GCTLs. With the exception of monitoring wells MW-14R and MW-24, a review of the data indicates an overall decrease in detected concentrations in groundwater when compared to the previous quarter groundwater sampling results.

NA Parameter Results

Table 3 provides a summary of the NA results and a list of the preferred range of NA parameters necessary for conditions conducive to biodegradation. The concentration of each parameter and concentration changes between monitoring events with respect to background levels indicate whether the site is conducive to aerobic degradation of naturally occurring microbes. This geochemical data provides a secondary line of evidence to determine if enhanced NA is occurring. The first measurements were recorded on June 24 and 25, 2003, and are considered baseline values of the parameters because they were recorded prior to ORC® injection. The trends and a discussion of how the NA parameter measurements compare to the baseline values are discussed below.

DO readings observed in the monitoring wells during the current sampling event are included in Table 3 along with the other NA parameters. In general most of the wells exhibited an increase in DO concentrations between the fourth and fifth quarterly events. Monitoring wells MW-27 and MW-28 showed a decrease in DO. Conversely, during the last sampling event, MW-27 and MW-28 were the only two wells to experience an increase in their DO concentrations. All of the wells sampled in March 2005 had DO levels in the preferred range.

The presence of ferrous iron is indicative of a site in the process of bioremediation via anaerobic microbial activity. Field testing of water from monitoring wells indicated a general decreasing trend in all wells except monitoring well MW-7. The concentration of ferrous iron in samples from monitoring wells MW-14R, MW-27, and MW-28 were above instrument limits. The remaining sampled wells had decreases in their ferrous iron content. The decrease of ferrous iron indicates oxidation of ferrous iron to ferric iron is occurring. The concentrations for all sampled wells ranged from 0.04 to greater than 3.3 milligrams per liter (mg/L). Favorable conditions for aerobic bioremediation have ferrous iron concentrations of less than 1 mg/L.

The trend of sulfate measured in the groundwater indicates that the concentrations have fluctuated throughout the monitoring process. Monitoring wells MW-18 and MW-27 were the only wells to indicate a decrease in sulfate levels since the last sampling event. The remaining wells exhibited no change or increases in sulfate. In fact, some of the highest individual sulfate levels of the study were recorded during the fifth quarter sampling event. Increasing sulfate concentrations would normally be indicative that oxidizing conditions exist and are promoting the transition from reduced sulfides to sulfates.

The groundwater samples from monitoring wells at Site 1120 indicated no general change in hydrogen sulfide concentrations. The highest hydrogen sulfide level recorded in the March sampling was 0.3 mg/L in the sample from monitoring well MW-27. Moreover, eight monitoring wells had levels too low to be measured. The decrease of hydrogen sulfide is indicative of oxidizing conditions or aerobic biodegradation.

Groundwater samples from eight monitoring wells contained alkalinity levels too low (less than 10) to be measured by the field testing kits. In contrast, monitoring wells MW-1, MW-2, MW-14R and MW-27 had relatively higher alkalinity readings within the 19 mg/L to 60mg/L range. Monitoring well MW-2 was the only well to have a groundwater water sample with the alkalinity levels in the preferred range of two times higher than baseline. High alkalinity levels indicate zones of microbial activity from the dissolution of

minerals by the production of carbon dioxide. However, because there has been an inconsistent trend with alkalinity levels, no conclusions can be made.

Carbon dioxide is the by-product of biodegradation for every respiration process other than methanogenesis. Monitoring well MW-27 was the only well sampled with an increase in carbon dioxide levels since the previous sampling event. However, all the wells at Site 1120 have shown decreases in carbon dioxide levels when compared to the baseline results. The increase in carbon dioxide concentrations between the baseline and first quarter events may indicate increased biodegradation due to the increased oxygen available from the ORC® injection. The decreased levels of carbon dioxide recorded during following sampling events may indicative of decreased biodegradation rates. This may be the result of enhanced natural attenuation where DO is consumed faster than it is released by the ORC®.

The temperature of the water continues to fluctuate between sampling events. Progression of the seasons and the associated changes in sunlight intensity and duration are probably the most influential factors contributing to these fluctuations. Keeping above the minimum 20 degrees Celsius (°C), groundwater continues to remain in the range that provides an environment conducive to biodegradation.

Conclusions and Recommendations

Contaminant levels in the groundwater at Site 1120 have decreased substantially since the baseline sampling event. Currently, only monitoring well MW-14R contains elevated levels of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene above the GCTLs. Reported concentrations of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene in monitoring well MW-14R remain in excess of their GCTL of 20 µg/L. However, concentrations of 2-methylnaphthalene have fallen below the Natural Attenuation Default Source Concentration (NADSC) level of 200 µg/L.

The ORC® injection appears to have released additional oxygen to the site groundwater. DO level increases of 2 mg/L or more compared to the baseline values were observed in 11 monitoring wells during the first quarter, and although second quarter DO measurements indicated DO concentrations had decreased, the third quarter DO measurements indicate DO concentrations have rebounded. Between the third and fourth quarters, DO concentrations dropped in most of the sampled wells. However, many of those same wells saw an increase in their levels of DO during the last sampling event.

TtNUS recommends that Monitored NA sampling be continued at the site as a follow up to the treatability study. The sampling program should be continued as specified in the recommendations section of the "Treatability Study Evaluation Report for Underground Storage Tank Site 1120, Outlying Landing Field Bronson, Pensacola Florida", with the exception of monitoring for detected COCs only. FDEP in a letter dated December 16, 2004 did not concur with this recommendation; therefore, sampling parameters as specified in the Treatability Study Work Plan should be continued.

If you have any questions with regard to this submittal, please contact me by calling (850) 385-9899 or via e-mail at walkerg@ttnus.com.

Sincerely,

Gerald Walker, P.G.
Florida License No. PG-0001180
Task Order Manager

GW/co

Attachments (4)

c: Ms. T. Vaught, FDEP
Mr. G. Campbell, NAS Pensacola
Ms. D. Humbert, TtNUS (cover letter only)
Mr. M. Perry/File, TtNUS (unbound copy)
Project File/Tallahassee

bc: Mr. G. Walker, TtNUS
Mr. K. Henn, TtNUS
Mr. G. Roof, TtNUS

TABLES

TABLE 1
GROUNDWATER ELEVATION SUMMARY
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

			Sampling Event Measurement Date	First Quarter 9/24/2003			Second Quarter 12/8/2003			Third Quarter 3/10/2004			Fourth Quarter 6/7/2004			Fifth Quarter 3/1/2005		
Well Designation	Installation Date	Installed Well Depth (ft)	TOC Elevation[2] (ft)	Depth to Water (ft)	Measured Well Depth (ft)	GW Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	GW Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	GW Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	GW Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	GW Elevation (ft)
MW-1	5/24/1995	18.85[1]	30.00	14.01	18.79	15.99	15.92	18.81	14.08	14.65	19.00	15.35	DRY	18.80	NA	14.98	18.75	15.02
MW-2	3/29/1996	23.5	30.08	14.08	23.45	16.00	16.81	23.44	13.27	14.70	23.20	15.38	17.88	23.34	12.20	15.13	23.91	14.95
MW-3	3/29/1996	23.5	30.74	14.81	23.29	15.93	17.60	23.29	13.14	15.40	23.20	15.34	16.97	23.38	13.77	15.59	23.29	15.15
MW-4	3/29/1996	22.5	29.08	13.21	22.04	15.87	16.08	22.03	13.00	13.00	22.00	16.08	16.41	22.09	12.67	14.15	16.42	14.93
MW-5R	7/23/2002	25.2	28.86	12.84	25.07	16.02	15.74	25.19	13.12	13.30	25.11	15.56	16.83	25.14	12.03	13.67	25.03	15.19
MW-7	5/14/1996	22.0	29.46	13.68	21.55	15.78	16.45	21.51	13.01	14.35	21.40	15.11	17.65	21.48	11.81	14.79	21.86	14.67
MW-8	5/14/1996	22.0	29.90	14.12	17.00	15.78	16.3	17.21	13.60	14.30	17.10	15.60	DRY	16.86	NA	15.19	17.22	14.71
MW-9	5/14/1996	22.0	29.66	NF	NF	NF	DRY	14.70	NA	DRY	14.00	NA	DRY	14.40	NA	NF	NF	NF
MW-10	5/14/1996	22.0	29.21	NR	NR	NR	16.25	16.29	12.96	13.78	16.20	15.43	DRY	15.60	NA	NF	NF	NF
MW-11	5/14/1996	22.0	28.43	12.41	13.00	16.02	DRY	14.00	NA	12.50	13.80	15.93	DRY	12.58	NA	NF	NF	NF
MW-12	5/14/1996	22.0	28.66	NR	NR	NR	DRY	14.99	NA	13.00	14.90	15.66	NR	NR	NR	NF	NF	NF
MW-13R	7/23/2002	24.9	29.58	13.72	25.00	15.86	16.43	24.94	13.15	14.40	25.00	15.18	17.59	25.00	11.99	NF	NF	NF
MW-14R	07/24/02	24.5	29.50	14.38	24.62	15.12	16.65	24.53	12.85	14.10	24.55	15.40	17.76	24.56	11.74	15.30	24.58	14.20
MW-15	7/31/1996	22.0	30.38	15.01	15.25	15.37	DRY	15.40	NA	13.40	15.45	16.98	DRY	14.87	NA	DRY	14.82	NA
MW-16R	7/24/2002	24.6	28.49	15.26	24.52	13.23	15.49	24.41	13.00	13.80	24.60	14.69	16.55	24.44	11.94	14.31	24.70	14.18
MW-17	8/1/1996	22.0	30.71	15.11	17.75	15.60	17.69	18.06	13.02	15.60	16.60	15.11	DRY	16.91	NA	DRY	16.60	NA
MW-18	8/1/1996	22.0	30.59	15.21	21.96	15.38	17.74	21.96	12.85	15.70	29.50	14.89	16.85	22.00	13.74	16.19	22.02	14.40
MW-19	8/1/1996	22.0	30.22	14.30	16.20	15.92	17.00	17.36	13.22	DRY	13.00	NA	DRY	16.36	NA	15.51	22.23	14.71
MW-20	8/1/1996	22.0	29.85	13.89	14.08	15.96	DRY	14.91	NA	DRY	14.20	NA	DRY	14.53	NA	14.60	14.78	15.25
MW-21	8/1/1996	22.0	28.24	12.55	15.83	15.69	15.00	15.58	13.24	13.15	14.00	15.09	DRY	14.04	NA	13.46	14.35	14.78
MW-22	9/18/1996	24.0	28.01	12.69	23.95	15.32	15.13	23.90	12.88	13.00	23.25	15.01	15.95	23.42	12.06	13.66	24.09	14.35
MW-23	9/18/1996	23.0	28.52	13.39	15.30	15.13	DRY	15.24	NA	13.50	14.85	15.02	DRY	14.97	15.02	DRY	14.13	NA
MW-24	9/18/1996	23.0	29.45	14.45	23.35	15.00	16.75	23.40	12.70	14.90	23.30	14.55	17.76	23.34	11.69	15.44	23.62	14.01
MW-25	9/19/1996	24.0	30.25	15.16	23.55	15.09	17.50	23.50	12.75	15.75	16.70	14.50	DRY	16.76	NA	DRY	16.20	NA
MW-26	9/19/1996	24.0	30.91	15.95	19.50	14.96	18.30	23.61	12.61	10.45	18.37	20.46	18.35	20.45	12.56	DRY	17.90	NA
MW-27	10/22/1996	25.0	32.55	17.59	24.49	14.96	19.91	24.47	12.64	18.10	24.55	14.45	20.93	24.50	11.62	18.65	24.53	13.90
MW-28	10/22/1996	25.0	32.68	17.99	21.90	14.69	20.25	24.15	12.43	18.53	24.20	14.15	21.28	24.22	11.40	18.99	24.22	13.69
MW-29	10/22/1996	25.0	31.03	16.30	24.40	14.73	18.55	24.51	12.48	16.85	24.57	14.18	18.56	24.47	12.47	17.56	24.81	13.47
MW-30	10/22/1996	25.0	29.71	NF	NF	NF	17.18	24.15	12.53	15.36	24.00	14.35	18.20	24.16	11.51	15.91	24.57	13.80
MW-31	10/22/1996	25.0	29.18	14.25	15.15	14.93	DRY	15.89	NA	14.45	15.85	14.73	DRY	16.00	NA	15.05	16.20	14.13
MW-32	12/10/1996	25.0	30.43	15.91	17.95	14.52	18.00	18.06	12.43	16.40	18.00	14.03	DRY	18.08	NA	16.83	18.00	13.60
MW-33	12/10/1996	25.0	32.11	17.50	19.85	14.61	19.70	20.60	12.41	DRY	17.00	NA	DRY	17.02	NA	NF	NF	NF
DMW-34	1/29/1997	40.0	31.46	15.02	38.60	16.44	17.46	38.63	14.00	15.75	38.65	15.71	18.86	38.73	12.60	16.03	39.16	15.43
DMW-35	5/22/2000	39.5	32.26	17.07	42.59	15.19	19.44	42.59	12.82	17.75	43.20	14.51	20.58	43.32	11.68	18.10	43.22	14.16

Notes:

[1] MW-1 is former MW-7, stickup well screened 7 to 17 ft below grade.

[2] TOC Elevations based upon arbitrary elevation datum of 30 ft. assigned to MW-1 TOC.

TOC - Top of Casing

ft - foot or feet

GW - Groundwater

DRY - no water detected in well

NR - Not Recorded

NA - Not applicable

NF - Not Found

TABLE 2
SUMMARY OF LABORATORY DETECTED GROUNDWATER EXCEEDANCES
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA FLORIDA

WELL NAME	GCTL[1] (ug/L)	NADSC[2] (ug/L)	MW-1						MW-2						MW-4					
SAMPLE ID			BRN-1120-MW01						BRN-1120-MW02						BRN-1120-MW04					
SAMPLING EVENT			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
COLLECTION DATE			06/24/03	09/25/03	12/10/03	NS	NS	03/02/05	06/24/03	09/25/03	12/10/03	03/11/04	06/08/04	03/02/05	06/24/03	09/25/03	12/10/03	03/11/04	06/08/04	03/02/05
VOCs[3] (ug/L)																				
BENZENE	1	100	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	0.09 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	NS	NS	1 U	0.5 J	1 U	1 U	1 U	1 U	1 U	14	1 U	6	1 U	3	1 U
M+P-XYLENES	NC	NC	1 U	2 U	2 U	NS	NS	NR	1 U	2 U	2 U	2 U	2 U	NR	28	2 U	12	2 U	3	NR
O-XYLENE	NC	NC	1 U	1 U	1 U	NS	NS	NR	0.5 J	1 U	1 U	1 U	1 U	NR	1 U	1 U	1 U	1 U	1 U	NR
TOLUENE	40	400	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	0.3 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOTAL XYLENES	20	200	1 U	3 U	3 U	NS	NS	3 U	2	3 U	3 U	3 U	3 U	3 U	28	3 U	12	3 U	3	3 U
PAHs[4] (ug/L)																				
1-METHYLNAPHTHALENE	20	200	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	5.9	0.2 U	1.4	0.18 J	5.2	3.1	380	0.2 U	36	0.2 U	18	0.2 U
2-METHYLNAPHTHALENE	20	200	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	4.9	0.2 U	1.2	0.22	4.9	3.1	220	0.2 U	52	0.2 U	21	0.2 U
ACENAPHTHENE	20	200	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	<.087	110 U	0.2 U	7.7 U	0.2 U	0.3	0.2 U
ACENAPHTHYLENE	210	2100	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	110 U	0.2 U	7.7 U	0.2 U	0.2 U	0.2 U
BENZO(A)ANTHRACENE	0.2	20	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	110 U	0.2 U	7.7 U	0.2 U	0.2 U	0.2 U
BENZO(K)FLUORANTHENE	0.5	50	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	110 U	0.2 U	7.7 U	0.2 U	0.2 U	0.2 U
CHRYSENE	4.8	480	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	110 U	0.2 U	7.7 U	0.2 U	0.2 U	0.2 U
FLUORANTHENE	280	2800	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	110 U	0.2 U	7.7 U	0.2 U	0.2 U	0.2 U
FLUORENE	280	2800	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.092 J	0.2 U	110 U	0.2 U	7.7 U	0.2 U	0.52	0.2 U
NAPHTHALENE	20	200	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	3	0.2 U	1.3	0.54	2.6	1.2	440	0.2 U	42	0.2 U	20	0.2 U
PHENANTHRENE	210	2100	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	110 U	0.2 U	7.7 U	0.2 U	0.26	0.2 U
PYRENE	210	2100	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	110 U	0.2 U	7.7 U	0.2 U	0.2 U	0.2 U
TRPH[5] (ug/L)																				
TOTAL PETROLEUM HYDROCARBONS	5000	50000	500 U	290 J	530 U	NS	NS	320 J	1600	500 U	1700 U	500 U	670 J	680 J	3200	720	1800 U	290 J	650	1700 U

Notes:

440	Exceeds GCTL
440	Exceeds GCTL and NADSC

[1] Groundwater Cleanup Target Level as provided in Chapter 62-777, FAC.
[2] Natural Attenuation Default Source Concentrations as provided in Chapter 62-770, FAC.
[3] VOCs (SW-846 8260B)
[4] PAHs = Polynuclear Aromatic Hydrocarbons (SW-846 8270 SIM)
[5] TRPH = Total Recoverable Petroleum Hydrocarbons (FDEP FL-PRO)
I = the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J = Estimated concentration
U = non-detect value
mg/L = micrograms per liter
mg/L = milligrams per liter
FL-PRO = Florida Petroleum Range Organics
NC = No Criteria
FAC = Florida Administrative Code
TB = Trip Blank
NS = Not sampled
NR = Not reported

TABLE 2
SUMMARY OF LABORATORY DETECTED GROUNDWATER EXCEEDANCES
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA FLORIDA

WELL NAME	GCTL[1]	NADSC[2]	MW-5R						MW-7						MW-8					
SAMPLE ID			BRN-1120-MW05R						BRN-1120-MW07						BRN-1120-MW08					
SAMPLING EVENT	(ug/L)	(ug/L)	Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
COLLECTION DATE			06/24/03	09/25/03	12/10/03	03/11/04	06/08/04	03/02/05	06/25/03	09/26/03	12/11/03	03/11/04	06/08/04	03/03/05	NS	09/25/03	NS	03/11/04	NS	NS
VOCs[3] (ug/L)																				
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	NS	1 U	NS	NS
ETHYLBENZENE	30	300	0.3 J	1 U	10	1 U	12	0.96 J	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	NS	1 U	NS	NS
M+P-XYLENES	NC	NC	1 U	2 U	30	2 U	28	NR	1 U	2 U	2 U	2 U	2 U	NR	NS	2 U	NS	2 U	NS	NS
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	0.6 J	NR	1 U	1 U	1 U	1 U	1 U	NR	NS	1 U	NS	1 U	NS	NS
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.43 J	NS	1 U	NS	1 U	NS	NS
TOTAL XYLENES	20	200	1 U	3 U	30	3 U	28	2.8 J	1 U	3 U	3 U	3 U	3 U	3 U	NS	3 U	NS	3 U	NS	NS
PAHs[4] (ug/L)																				
1-METHYLNAPHTHALENE	20	200	2.2	0.2 U	34	0.2 U	37	0.31	0.2 U	0.2 U	0.37	0.094 J	0.84	0.2 U	NS	0.2 U	NS	0.2 U	NS	NS
2-METHYLNAPHTHALENE	20	200	1.3	0.2 U	43	0.2 U	44	0.27	0.2 U	0.2 U	0.25	0.098 J	0.64	0.2 U	NS	0.2 U	NS	0.2 U	NS	NS
ACENAPHTHENE	20	200	0.2 U	0.2 U	7.6 U	0.2 U	0.47	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 J	0.2 U	NS	0.2 U	NS	0.2 U	NS	NS
ACENAPHTHYLENE	210	2100	0.2 U	0.2 U	7.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.051	0.2 U	0.21 U	0.2 U	NS	0.2 U	NS	0.2 U	NS	NS
BENZO(A)ANTHRACENE	0.2	20	0.2 U	0.2 U	7.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	NS	0.2 U	NS	0.2 U	NS	NS
BENZO(K)FLUORANTHENE	0.5	50	0.2 U	0.2 U	7.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	NS	0.2 U	NS	0.2 U	NS	NS
CHRYSENE	4.8	480	0.2 U	0.2 U	7.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	NS	0.2 U	NS	0.2 U	NS	NS
FLUORANTHENE	280	2800	0.2 U	0.2 U	7.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	NS	0.2 U	NS	0.2 U	NS	NS
FLUORENE	280	2800	0.2 U	0.2 U	7.6 U	0.2 U	0.85	0.2 U	0.2 U	0.2 U	0.11	0.2 U	0.3	0.2 U	NS	0.2 U	NS	0.2 U	NS	NS
NAPHTHALENE	20	200	2.1	0.2 U	48	0.2 U	46	2.0	0.2 U	0.2 U	0.2 U	0.2 U	0.12 J	0.2 U	NS	0.2 U	NS	0.2 U	NS	NS
PHENANTHRENE	210	2100	0.2 U	0.2 U	7.6 U	0.2 U	0.38	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.18 J	0.2 U	NS	0.2 U	NS	0.2 U	NS	NS
PYRENE	210	2100	0.2 U	0.2 U	7.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	NS	0.2 U	NS	0.2 U	NS	NS
TRPH[5] (ug/L)																				
TOTAL PETROLEUM HYDROCARBONS	5000	50000	620	890	1800 U	350 J	1200	1100 J	500 U	500 U	500 U	500 U	310 J	1700 U	NS	500 U	NS	500 U	NS	NS

Notes:

440 — Exceeds GCTL

440 — Exceeds GCTL and NADSC

[1] Groundwater Cleanup Target Level as provided in Chapter 62-777, FAC.

[2] Natural Attenuation Default Source Concentrations as provided in Chapter 62-770, FAC.

[3] VOCs (SW-846 8260B)

[4] PAHs = Polynuclear Aromatic Hydrocarbons (SW-846 8270 SIM)

[5] TRPH = Total Recoverable Petroleum Hydrocarbons (FDEP FL-PRO)

I = the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

J = Estimated concentration

U = non-detect value

mg/L = micrograms per liter

mg/L = milligrams per liter

FL-PRO = Florida Petroleum Range Organics

NC = No Criteria

FAC = Florida Administrative Code

TB = Trip Blank

NS = Not sampled

NR = Not reported

TABLE 2
SUMMARY OF LABORATORY DETECTED GROUNDWATER EXCEEDANCES
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA FLORIDA

WELL NAME	GCTL[1] (ug/L)	NADSC[2] (ug/L)	MW-13R						MW-14R						MW-16R					
SAMPLE ID			BRN-1120-MW13R						BRN-1120-MW14R						BRN-1120-MW16R					
SAMPLING EVENT			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
COLLECTION DATE			06/25/03	09/25/03	12/10/03	03/11/04	NS	NS	06/25/03	09/25/03	12/10/03	03/10/04	06/07/04	03/02/05	06/25/03	09/24/03	12/10/03	03/10/04	06/07/04	03/03/05
VOCs[3] (ug/L)																				
BENZENE	1	100	1 U	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	NS	NS	16	3	9	23	11	5.5	1 U	0.7 J	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	1 U	2 U	2 U	2 U	NS	NS	32	5	12	51	10	NR	1 U	3	2 U	2 U	2 U	NR
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	1 U	0.6 J	NR	1 U	1 U	1 U	1 U	1 U	NR
TOLUENE	40	400	1 U	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	1 U	1 U	0.33 J	1 U	1 U	1 U	1 U	1 U	0.34 J
TOTAL XYLENES	20	200	1 U	3 U	3 U	3 U	NS	NS	32	5	12	51	10	10	1 U	3	3 U	3 U	3 U	3 U
PAHs[4] (ug/L)																				
1-METHYLNAPHTHALENE	20	200	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	160	76	130	160	140	120	2.3	5	13	0.099 J	5.6	1.4
2-METHYLNAPHTHALENE	20	200	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	150	97	200	210	200	140	5.6	6.2	23	0.2 J	7	2.4
ACENAPHTHENE	20	200	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	44 U	7.5 U	19 U	2.6	1.5	1.7	0.97 U	0.75 U	0.98 J	0.2 U	0.19 J	0.2 U
ACENAPHTHYLENE	210	2100	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	44 U	7.5 U	19 U	0.2 U	0.2 U	0.2 U	0.97 U	0.75 U	1.9 U	0.2 U	0.2 U	0.2 U
BENZO(A)ANTHRACENE	0.2	20	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	44 U	7.5 U	19 U	0.2 U	0.2 U	0.2 U	0.97 U	0.75 U	1.9 U	0.2 U	0.2 U	0.2 U
BENZO(K)FLUORANTHENE	0.5	50	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	44 U	7.5 U	19 U	0.2 U	0.2 U	0.2 U	0.97 U	0.75 U	1.9 U	0.2 U	0.2 U	0.2 U
CHRYSENE	4.8	480	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	44 U	7.5 U	19 U	0.2 U	0.2 U	0.2 U	0.97 U	0.75 U	1.9 U	0.2 U	0.2 U	0.2 U
FLUORANTHENE	280	2800	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	44 U	7.5 U	19 U	0.2 U	0.2 U	0.2 U	0.97 U	0.75 U	1.9 U	0.2 U	0.2 U	0.2 U
FLUORENE	280	2800	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	44 U	2.5 J	19 U	4.1 E	2.9	3.4	0.97 U	0.75 U	1.1 J	0.2 U	0.48	0.079 J
NAPHTHALENE	20	200	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	52	41	98	160	100	62	0.97 U	1.4	1.9 U	0.2 U	0.2	0.2 U
PHENANTHRENE	210	2100	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	44 U	7.5 U	19 U	2.2	2.2	2.6	0.97 U	0.75 U	1.9 U	0.2 U	0.12 J	0.057 J
PYRENE	210	2100	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	44 U	7.5 U	19 U	0.2 U	0.2 U	0.2 U	0.97 U	0.75 U	1.9 U	0.2 U	0.2 U	0.2 U
TRPH[5] (ug/L)																				
TOTAL PETROLEUM HYDROCARBONS	5000	50000	510 U	500 U	280 J	500 U	NS	NS	3800	4600	4000	2500	2200	5100	400 J	360 J	1100 U	500 U	420 J	1700 U

Notes:

440 Exceeds GCTL

440 Exceeds GCTL and NADSC

[1] Groundwater Cleanup Target Level as provided in Chapter 62-777, FAC.

[2] Natural Attenuation Default Source Concentrations as provided in Chapter 62-770, FAC.

[3] VOCs (SW-846 8260B)

[4] PAHs = Polynuclear Aromatic Hydrocarbons (SW-846 8270 SIM)

[5] TRPH = Total Recoverable Petroleum Hydrocarbons (FDEP FL-PRO)

I = the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

J = Estimated concentration

U = non-detect value

mg/L = micrograms per liter

mg/L = milligrams per liter

FL-PRO = Florida Petroleum Range Organics

NC = No Criteria

FAC = Florida Administrative Code

TB = Trip Blank

NS = Not sampled

NR = Not reported

TABLE 2
SUMMARY OF LABORATORY DETECTED GROUNDWATER EXCEEDANCES
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA FLORIDA

WELL NAME	GCTL[1]	NADSC[2]	MW-17						MW-18						MW-24					
SAMPLE ID			BRN-1120-MW17						BRN-1120-MW18						BRN-1120-MW24					
SAMPLING EVENT	(ug/L)	(ug/L)	Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
COLLECTION DATE			06/26/03	09/26/03	12/11/03	03/11/04	NS	NS	06/26/03	09/26/03	12/11/03	03/10/04	06/08/04	03/03/05	06/25/03	09/24/03	12/10/03	03/10/04	06/07/04	03/03/05
VOCs[3] (ug/L)																				
BENZENE	1	100	1 U	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	1 U	2 U	2 U	2 U	NS	NS	1 U	2 U	2 U	2 U	2 U	NR	1 U	2 U	2 U	2 U	2 U	NR
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	1 U	1 U	NR	1 U	1 U	1 U	1 U	1 U	NR
TOLUENE	40	400	1 U	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	1 U	1 U	0.64 J	1 U	1 U	1 U	1 U	1 U	0.37 J
TOTAL XYLENES	20	200	1 U	3 U	3 U	3 U	NS	NS	1 U	3 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U	3 U
PAHs[4] (ug/L)																				
1-METHYLNAPHTHALENE	20	200	0.11 J	0.2 U	0.096	0.2 U	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	6.7	0.2 U	26	4.2	8.6	3.6
2-METHYLNAPHTHALENE	20	200	0.092 J	0.2 U	0.2 U	0.2 U	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	5.9	0.12 J	50	6	16	17
ACENAPHTHENE	20	200	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.17 J	7.5 U	0.3	0.36	0.4
ACENAPHTHYLENE	210	2100	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.74 J	0.2 U	7.5 U	0.2 U	0.2 U	0.2 U
BENZO(A)ANTHRACENE	0.2	20	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.13 J	7.5 U	0.2 U	0.2 U	0.2 U
BENZO(K)FLUORANTHENE	0.5	50	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.16 J	7.5 U	0.2 U	0.2 U	0.2 U
CHRYSENE	4.8	480	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	7.5 U	0.2 U	0.2 U	0.2 U
FLUORANTHENE	280	2800	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	7.5 U	0.2 U	0.2 U	0.2 U
FLUORENE	280	2800	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.7 J	0.2 U	2.9 J	0.39	1.1	0.86
NAPHTHALENE	20	200	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.13 J	7.5 U	0.08 J	0.36	0.28
PHENANTHRENE	210	2100	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	7.5 U	0.17 J	0.44	0.88
PYRENE	210	2100	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 J	7.5 U	0.2 U	0.2 U	0.2 U
TRPH[5] (ug/L)																				
TOTAL PETROLEUM HYDROCARBONS	5000	50000	400 J	500 U	310 U	500 U	NS	NS	1300	500 U	570 U	500 U	500 U	1700 U	1200	500 U	2200 U	350 J	690	1200 J

Notes:

440 — Exceeds GCTL

440 — Exceeds GCTL and NADSC

[1] Groundwater Cleanup Target Level as provided in Chapter 62-777, FAC.
[2] Natural Attenuation Default Source Concentrations as provided in Chapter 62-770, FAC.
[3] VOCs (SW-846 8260B)
[4] PAHs = Polynuclear Aromatic Hydrocarbons (SW-846 8270 SIM)
[5] TRPH = Total Recoverable Petroleum Hydrocarbons (FDEP FL-PRO)
I = the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J = Estimated concentration
U = non-detect value
mg/L = micrograms per liter
mg/L = milligrams per liter
FL-PRO = Florida Petroleum Range Organics
NC = No Criteria
FAC = Florida Administrative Code
TB = Trip Blank
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NR = Not reported

TABLE 2
SUMMARY OF LABORATORY DETECTED GROUNDWATER EXCEEDANCES
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA FLORIDA

WELL NAME	GCTL[1] (ug/L)	NADSC[2] (ug/L)	MW-25						MW-26						MW-27					
SAMPLE ID			BRN-1120-MW25						BRN-1120-MW26						BRN-1120-MW27					
SAMPLING EVENT			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
COLLECTION DATE			06/25/03	09/25/03	12/11/03	03/10/04	NS	NS	06/26/03	09/24/03	12/11/03	03/10/04	06/07/04	NS	06/26/03	09/25/03	12/10/03	03/10/04	06/08/04	03/03/05
VOCs[3] (ug/L)																				
BENZENE	1	100	1 U	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1	1 U	0.8 U	0.9 J	NS	NS	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	1 U	2 U	0.4 J	2	NS	NS	1 U	2 U	2 U	2 U	2 U	NS	1 U	2 U	2 U	2 U	2 U	NR
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	NR
TOLUENE	40	400	1 U	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
TOTAL XYLENES	20	200	1 U	3 U	3 U	2 J	NS	NS	1 U	3 U	3 U	3 U	3 U	NS	1 U	3 U	3 U	3 U	3 U	3 U
PAHs[4] (ug/L)																				
1-METHYLNAPHTHALENE	20	200	7.3	0.2 U	17	14	NS	NS	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-METHYLNAPHTHALENE	20	200	20	0.11 J	56	18	NS	NS	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ACENAPHTHENE	20	200	1.9 U	0.2 U	7.7 U	0.24	NS	NS	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ACENAPHTHYLENE	210	2100	1.9 U	0.2 U	7.7 U	0.2 U	NS	NS	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
BENZO(A)ANTHRACENE	0.2	20	1.9 U	0.2 U	7.7 U	0.2 U	NS	NS	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.17 J	0.2 U	0.2 U	0.2 U	0.2 U
BENZO(K)FLUORANTHENE	0.5	50	1.9 U	0.2 U	7.7 U	0.2 U	NS	NS	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CHRYSENE	4.8	480	1.9 U	0.2 U	7.7 U	0.2 U	NS	NS	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.14 J	0.2 U	0.2 U	0.2 U	0.2 U
FLUORANTHENE	280	2800	1.9 U	0.2 U	7.7 U	0.2 U	NS	NS	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.17 J	0.2 U	0.2 U	0.2 U	0.2 U
FLUORENE	280	2800	1.9 U	0.2 U	7.7 U	0.36	NS	NS	0.21 U	0.2 U	0.2 U	0.2 U	0.17 J	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
NAPHTHALENE	20	200	6	0.2 U	16	6.4	NS	NS	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PHENANTHRENE	210	2100	1.9 U	0.2 U	7.7 U	0.11 J	NS	NS	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.077 J	0.2 U	0.2 U	0.2 U	0.2 U
PYRENE	210	2100	1.9 U	0.2 U	7.7 U	0.2 U	NS	NS	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.22	0.2 U	0.2 U	0.2 U	0.2 U
TRPH[5] (ug/L)																				
TOTAL PETROLEUM HYDROCARBONS	5000	50000	950	500 U	1300 U	450 J	NS	NS	520 U	500 U	500 U	500 U	500 U	NS	500 U	500 U	330 U	500 U	500 U	1700 J

Notes:

440 Exceeds GCTL

440 Exceeds GCTL and NADSC

[1] Groundwater Cleanup Target Level as provided in Chapter 62-777, FAC.

[2] Natural Attenuation Default Source Concentrations as provided in Chapter 62-770, FAC.

[3] VOCs (SW-846 8260B)

[4] PAHs = Polynuclear Aromatic Hydrocarbons (SW-846 8270 SIM)

[5] TRPH = Total Recoverable Petroleum Hydrocarbons (FDEP FL-PRO)

I = the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

J = Estimated concentration

U = non-detect value

mg/L = micrograms per liter

mg/L = milligrams per liter

FL-PRO = Florida Petroleum Range Organics

NC = No Criteria

FAC = Florida Administrative Code

TB = Trip Blank

NS = Not sampled

NR = Not reported

TABLE 2
SUMMARY OF LABORATORY DETECTED GROUNDWATER EXCEEDANCES
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA FLORIDA

WELL NAME	GCTL[1]	NADSC[2]	MW-28						MW-29						MW-30					
SAMPLE ID			BRN-1120-MW28						BRN-1120-MW29						OLFB1120MW30					
SAMPLING EVENT	(ug/L)	(ug/L)	Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
COLLECTION DATE			06/26/03	09/25/03	12/10/03	03/10/04	06/08/04	03/03/05	NS	09/25/03	12/10/03	03/10/04	06/08/04	NS	NS	NS	NS	NS	06/07/04	NS
VOCs[3] (ug/L)																				
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	1 U	NS
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	0.3 J	0.4 J	NS	NS	NS	NS	NS	1 U	NS
M+P-XYLENES	NC	NC	1 U	2 U	2 U	2 U	2 U	NR	NS	2 U	2 U	2 U	2 U	NS	NS	NS	NS	NS	2 U	NS
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	NR	NS	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	1 U	NS
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	0.30 J	NS	1 U	1 U	0.2 J	1 U	NS	NS	NS	NS	NS	1 U	NS
TOTAL XYLENES	20	200	1 U	3 U	3 U	3 U	3 U	3 U	NS	3 U	3 U	3 U	3 U	NS	NS	NS	NS	NS	3 U	NS
PAHs[4] (ug/L)																				
1-METHYLNAPHTHALENE	20	200	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.085 J	NS	NS	NS	NS	NS	0.33	NS
2-METHYLNAPHTHALENE	20	200	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	1.2	0.97	2.7	NS	NS	NS	NS	NS	3.6	NS
ACENAPHTHENE	20	200	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.12 J	0.21	NS	NS	NS	NS	NS	0.34	NS
ACENAPHTHYLENE	210	2100	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	NS	0.2 U	NS
BENZO(A)ANTHRACENE	0.2	20	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	NS	0.2 U	NS
BENZO(K)FLUORANTHENE	0.5	50	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	NS	0.2 U	NS
CHRYSENE	4.8	480	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	NS	0.2 U	NS
FLUORANTHENE	280	2800	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	NS	0.2 U	NS
FLUORENE	280	2800	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.11 J	0.19 J	0.38	NS	NS	NS	NS	NS	1	NS
NAPHTHALENE	20	200	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.12 J	0.52	1.6	NS	NS	NS	NS	NS	0.29	NS
PHENANTHRENE	210	2100	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.1 J	0.086 J	NS	NS	NS	NS	NS	0.43	NS
PYRENE	210	2100	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	NS	0.2 U	NS
TRPH[5] (ug/L)																				
TOTAL PETROLEUM HYDROCARBONS	5000	50000	500 U	500 U	340 U	500 U	500 U	1700 J	NS	500 U	500 U	500 U	300 J	NS	NS	NS	NS	NS	490	NS

Notes:

440 — Exceeds GCTL

440 — Exceeds GCTL and NADSC

[1] Groundwater Cleanup Target Level as provided in Chapter 62-777, FAC.
[2] Natural Attenuation Default Source Concentrations as provided in Chapter 62-770, FAC.
[3] VOCs (SW-846 8260B)
[4] PAHs = Polynuclear Aromatic Hydrocarbons (SW-846 8270 SIM)
[5] TRPH = Total Recoverable Petroleum Hydrocarbons (FDEP FL-PRO)
I = the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J = Estimated concentration
U = non-detect value
mg/L = micrograms per liter
mg/L = milligrams per liter
FL-PRO = Florida Petroleum Range Organics
NC = No Criteria
FAC = Florida Administrative Code
TB = Trip Blank
NS = Not sampled
NR = Not reported

TABLE 2
SUMMARY OF LABORATORY DETECTED GROUNDWATER EXCEEDANCES
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA FLORIDA

WELL NAME	GCTL[1] (ug/L)	NADSC[2] (ug/L)	MW-32						MW-35					
SAMPLE ID			BRN-1120-MW32						BRN-1120-MW35					
SAMPLING EVENT			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
COLLECTION DATE			06/26/03	NS	NS	NS	NS	03/03/05	06/26/03	09/25/03	12/10/03	03/10/04	06/07/04	03/02/05
VOCs[3] (ug/L)														
BENZENE	1	100	1 U	NS	NS	NS	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	NS	NS	NS	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	1 U	NS	NS	NS	NS	NR	1 U	2 U	2 U	2 U	2 U	NR
O-XYLENE	NC	NC	1 U	NS	NS	NS	NS	NR	1 U	1 U	1 U	1 U	1 U	NR
TOLUENE	40	400	1 U	NS	NS	NS	NS	0.30 J	1 U	1 U	1 U	1 U	1 U	0.27 J
TOTAL XYLENES	20	200	1 U	NS	NS	NS	NS	3 U	1 U	3 U	3 U	3 U	3 U	3 U
PAHs[4] (ug/L)														
1-METHYLNAPHTHALENE	20	200	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-METHYLNAPHTHALENE	20	200	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ACENAPHTHENE	20	200	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ACENAPHTHYLENE	210	2100	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
BENZO(A)ANTHRACENE	0.2	20	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
BENZO(K)FLUORANTHENE	0.5	50	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CHRYSENE	4.8	480	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
FLUORANTHENE	280	2800	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
FLUORENE	280	2800	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
NAPHTHALENE	20	200	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PHENANTHRENE	210	2100	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PYRENE	210	2100	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
TRPH[5] (ug/L)														
TOTAL PETROLEUM HYDROCARBONS	5000	50000	500 U	NS	NS	NS	NS	1700 J	500 U	500 U	350 U	500 U	500 U	1700J

Notes:

440 Exceeds GCTL

440 Exceeds GCTL and NADSC

[1] Groundwater Cleanup Target Level as provided in Chapter 62-777, FAC.
[2] Natural Attenuation Default Source Concentrations as provided in Chapter 62-770, FAC.
[3] VOCs (SW-846 8260B)
[4] PAHs = Polynuclear Aromatic Hydrocarbons (SW-846 8270 SIM)
[5] TRPH = Total Recoverable Petroleum Hydrocarbons (FDEP FL-PRO)
I = the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J = Estimated concentration
U = non-detect value
mg/L = micrograms per liter
mg/L = milligrams per liter
FL-PRO = Florida Petroleum Range Organics
NC = No Criteria
FAC = Florida Administrative Code
TB = Trip Blank
NS = Not sampled
NR = Not reported

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

Sample Location			MW-1						MW-2					
Sampling Event			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
Collect Date			6/24/2003	9/25/2003	12/10/2003	NS	NS	3/2/2005	6/24/2003	9/25/2003	12/10/2003	3/11/2004	6/8/2004	3/2/2005
	Preferred Range	Units												
Field Parameters														
Dissolved Oxygen	> 0.5 mg/L	mg/L	1.06	4	5.0	NS	NS	5.0	3.0	12	1.0	4.0	2.0	3.5
Carbon Dioxide	> 2X	mg/L	40	40	11	NS	NS	16	33	25	14.5	<100	50	13
Alkalinity	> 2X	mg/L	70	80	40	NS	NS	60	16	45	50	35	< 10	35
Ferrous Iron	decreasing trend	mg/L	1.4	--	0.06	NS	NS	0.04	1.2	--	0.8	0.08	2.05	0.22
Hydrogen Sulfide	decreasing trend	mg/L	1	--	--	NS	NS	--	0.3	--	--	--	0.1	0.1
Temperature	> 20 °C	°C	23.96	25.97	22.5	NS	NS	20.23	22.83	24.68	22.39	20.31	21.44	20.41
pH	5 < pH < 9	SU	6.62	6.43	7.06	NS	NS	6.62	5.20	6.05	7.26	7.63	6.37	6.38
ORP	increasing trend	mV	121.0	121	45	NS	NS	53.60	22.3	10	-165	-18.9	-36.3	-17.70
Laboratory Parameters														
Sulfate		mg/L	1 U	1 U	4.2	NS	NS	9.50	3	1 U	0.53 J	0.85 J	1.0 U	6.00
Total Organic Carbon		mg/L	2 U	2 U	3.2	NS	NS	1.89	7.2	3 U	8	2.5	4.3	3.22

Notes:
2X = two times background concentration
mg/L = milligrams per liter
NA = not applicable
NS = not sampled
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
µg/L = micrograms per liter
-- = Analyte not detected above the instrument detection limit
J = Estimated concentration
U = non-detect value
ORP = Oxidation-reduction potential

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

Sample Location			MW-4						MW-5R					
Sampling Event			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
Collect Date			6/24/2003	9/25/2003	12/10/2003	3/11/2004	6/8/2004	3/2/2005	6/24/2003	9/25/2003	12/10/2003	3/11/2004	6/8/2004	3/2/2005
	Preferred Range	Units												
Field Parameters														
Dissolved Oxygen	> 0.5 mg/L	mg/L	0.2	2	0.8	6	0.8	3.0	4	2	0.9	4.5	2.5	3.0
Carbon Dioxide	> 2X	mg/L	70	70	14	11	42	18	25	65	20	10	180	13
Alkalinity	> 2X	mg/L	25	40	25	<10	25	<10	<10	75	20	14	350	12
Ferrous Iron	decreasing trend	mg/L	6.8	0.6	2.8	1.25	2.68	0.38	1.4	0.2	2.6	1.39	2.53	0.57
Hydrogen Sulfide	decreasing trend	mg/L	0.2	0.7	0.08	--	0.1	0.2	1	--	--	--	--	--
Temperature	> 20 °C	°C	23.25	24.97	23.06	19.84	23.00	20.33	23.48	25.84	22.73	20.05	21.80	21.05
pH	5 < pH < 9	SU	5.41	5.51	6.55	6.63	6.31	5.78	5.33	5.76	6.61	6.89	5.99	5.97
ORP	increasing trend	mV	2.6	27	-179	-5	-37.4	29.3	129	53	-89	1.7	23.2	55.4
Laboratory Parameters														
Sulfate		mg/L	3.4	7	3.5	4.6	1.0 U	5.8	8.2	1 U	6.2	6.9	1.8	5.4
Total Organic Carbon		mg/L	13	6.2	4.6	2	5.3	1.33	3 U	9.9	6.2	3.2	3.4	2.9

Notes:
2X = two times background concentration
mg/L = milligrams per liter
NA = not applicable
NS = not sampled
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
µg/L = micrograms per liter
-- = Analyte not detected above the instrument detection limit
J = Estimated concentration
U = non-detect value
ORP = Oxidation-reduction potential

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

Sample Location			MW-7						MW-8					
Sampling Event			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
Collect Date			6/25/2003	9/26/2003	12/11/2003	3/11/2004	6/8/2004	3/2/2005	NS	9/25/2003	NS	3/11/2004	NS	NS
	Preferred Range	Units												
Field Parameters														
Dissolved Oxygen	> 0.5 mg/L	mg/L	4-5	5	5	3	1	3.0	NS	3.0	NS	3	NS	NS
Carbon Dioxide	> 2X	mg/L	16	25	14	<10	16	14	NS	35	NS	18	NS	NS
Alkalinity	> 2X	mg/L	<10	5	< 10	<10	<10	<10	NS	<5	NS	<11	NS	NS
Ferrous Iron	decreasing trend	mg/L	--	--	1.4	--	0.62	3.11	NS	0.6	NS	2.51	NS	NS
Hydrogen Sulfide	decreasing trend	mg/L	--	--	--	--	--	--	NS	--	NS	0.5	NS	NS
Temperature	> 20 °C	°C	22.48	24.25	22.61	20.05	21.60	19.76	NS	24.04	NS	19.74	NS	NS
pH	5 < pH < 9	SU	5.29	4.34	5.51	5.45	4.45	5.74	NS	3.84	NS	4.99	NS	NS
ORP	increasing trend	mV	169.5	339	139	11.7	257.4	41.5	NS	108	NS	-17.4	NS	NS
Laboratory Parameters														
Sulfate		mg/L	3.8	3.3	4	2.8	1.0 U	6.5	NS	10	NS	4.5	NS	NS
Total Organic Carbon		mg/L	0.6928 U	1 U	1.1	0.34 J	1.0	<.81	NS	2 U	NS	3.4	NS	NS

Notes:
2X = two times background concentration
mg/L = milligrams per liter
NA = not applicable
NS = not sampled
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
µg/L = micrograms per liter
-- = Analyte not detected above the instrument detection limit
J = Estimated concentration
U = non-detect value
ORP = Oxidation-reduction potential

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

Sample Location			MW-13R						MW-14R					
Sampling Event			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
Collect Date			6/25/2003	9/25/2003	12/10/2003	3/11/2004	NS	NS	6/25/2003	9/25/2003	12/10/2003	3/10/2004	6/7/2004	3/2/2005
	Preferred Range	Units												
Field Parameters														
Dissolved Oxygen	> 0.5 mg/L	mg/L	4.0	6.0	4.0	5.0	NS	NS	--	2.0	0.7	1.0	1.0	1.5
Carbon Dioxide	> 2X	mg/L	18	30	12.5	<100	NS	NS	70	65	18	20	40	26
Alkalinity	> 2X	mg/L	<10	35	< 10	<10	NS	NS	35	60	35	27.5	35	32
Ferrous Iron	decreasing trend	mg/L	--	--	0.1	0.1	NS	NS	6.0	5.0	1.4	4.0	4.0	>3.3
Hydrogen Sulfide	decreasing trend	mg/L	--	--	--	--	NS	NS	0.5	--	0.05	--	0.1	0.1
Temperature	> 20 °C	°C	23.18	23.43	22.17	20.82	NS	NS	22.78	23.75	23.01	20.8	21.89	21.06
pH	5 < pH < 9	SU	4.39	5.92	5.87	6.77	NS	NS	6.28	5.42	6.88	7.49	6.42	6.23
ORP	increasing trend	mV	88.2	165	73	11.9	NS	NS	-67.6	4	-121	-24.4	-1.9	-73.5
Laboratory Parameters														
Sulfate		mg/L	7.2	7.5	8.7	4.5	NS	NS	2 U	1 U	1 U	1 U	1.0 U	0.57
Total Organic Carbon		mg/L	0.7636 U	1 U	0.66 J	0.51 J	NS	NS	5.2	6.6	4.9	5.2	4.3	2.37

Notes:
2X = two times background concentration
mg/L = milligrams per liter
NA = not applicable
NS = not sampled
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
µg/L = micrograms per liter
-- = Analyte not detected above the instrument detection limit
J = Estimated concentration
U = non-detect value
ORP = Oxidation-reduction potential

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

Sample Location			MW-16R						MW-17					
Sampling Event			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
Collect Date			6/25/2003	9/24/2003	12/10/2003	3/10/2004	6/7/2004	3/2/2005	6/26/2003	9/26/2003	12/11/2003	3/11/2004	NS	NS
	Preferred Range	Units												
Field Parameters														
Dissolved Oxygen	> 0.5 mg/L	mg/L	0.43	6.0	2.5	5.5	0.8	6.5	1.0	4.0	0.5	4.0	NS	NS
Carbon Dioxide	> 2X	mg/L	35	25	17	<10	27	<10	28	30	12	10	NS	NS
Alkalinity	> 2X	mg/L	40	40	18	<10	16	<10	40	60	< 10	<10	NS	NS
Ferrous Iron	decreasing trend	mg/L	2.4	0.8	2.0	0.03	2.85	0.08	3.2	--	2.8	0.01	NS	NS
Hydrogen Sulfide	decreasing trend	mg/L	--	--	--	--	--	--	--	--	0.18	--	NS	NS
Temperature	> 20 °C	°C	23.44	23.33	23.01	20.43	21.96	20.42	22.89	23.22	21.51	19.99	NS	NS
pH	5 < pH < 9	SU	5.38	4.17	6.46	5.63	6.05	6.15	4.29	3.79	5.77	5.41	NS	NS
ORP	increasing trend	mV	61.1	280	-43	19.9	-30.4	106.7	7.6	342	-163	11.4	NS	NS
Laboratory Parameters														
Sulfate		mg/L	7.4	3.9	1	2.7	0.50 J	3.5	5.8	5.4	6.5	4.3	NS	NS
Total Organic Carbon		mg/L	0.8686 U	1 U	1.3	0.33 J	0.87 J	<.81	1 U	1 U	2.1	0.44 J	NS	NS

Notes:
2X = two times background concentration
mg/L = milligrams per liter
NA = not applicable
NS = not sampled
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
µg/L = micrograms per liter
-- = Analyte not detected above the instrument detection limit
J = Estimated concentration
U = non-detect value
ORP = Oxidation-reduction potential

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

Sample Location			MW-18						MW-24					
Sampling Event			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
Collect Date			6/26/2003	9/26/2003	12/11/2003	3/10/2004	6/8/2004	3/3/2005	6/25/2003	9/24/2003	12/10/2003	3/10/2004	6/7/2004	3/3/2005
	Preferred Range	Units												
Field Parameters														
Dissolved Oxygen	> 0.5 mg/L	mg/L	0.05	4.00	0.05	5.0	1.0	4.0	1.0	5.5	1.5	3.5	1.0	3.0
Carbon Dioxide	> 2X	mg/L	45	30	25	<10	19	12	90	20	30	<10	25	17
Alkalinity	> 2X	mg/L	10	5	< 10	<10	30	<10	18	15	22.5	<10	25	<10
Ferrous Iron	decreasing trend	mg/L	5.7	--	3.8	0.06	2.44	0.11	5	--	2.2	0.26	4.4	3.17
Hydrogen Sulfide	decreasing trend	mg/L	5.0	--	0.39	--	--	--	--	--	--	--	--	--
Temperature	> 20 °C	°C	22.35	23.52	22.06	20.34	21.01	20.26	22.27	23.63	22.78	20.57	21.17	20.73
pH	5 < pH < 9	SU	5.15	4.79	5.86	4.63	5.01	5.07	5.16	3.67	6.58	4.6	5.60	5.00
ORP	increasing trend	mV	-59.9	281	-192	18	150.2	174.0	72.0	336	-71	13.5	121.2	172.6
Laboratory Parameters														
Sulfate		mg/L	25	9.8	14	7.4	14	8.7	3.5	9	3.1	5.6	1.0 U	7.4
Total Organic Carbon		mg/L	6.6	1 U	3.7	0.79 J	2.0	<.810	2 U	1	3.1	1.2	2.3	<.810

Notes:
2X = two times background concentration
mg/L = milligrams per liter
NA = not applicable
NS = not sampled
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
µg/L = micrograms per liter
-- = Analyte not detected above the instrument detection limit
J = Estimated concentration
U = non-detect value
ORP = Oxidation-reduction potential

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

Sample Location			MW-25						MW-26					
Sampling Event			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
Collect Date			6/26/2003	9/25/2003	12/11/2003	3/10/2004	NS	NS	6/26/2003	9/24/2003	12/11/2003	3/10/2004	6/7/2004	NS
	Preferred Range	Units												
Field Parameters														
Dissolved Oxygen (YSI)	> 0.5 mg/L	mg/L	--	5.0	1.0	4.0	NS	NS	4	2.0	1.0	1.5	1.0	NS
Carbon Dioxide	> 2X	mg/L	60	40	16	10.5	NS	NS	30	35	12	11	28	NS
Alkalinity	> 2X	mg/L	18	40	12	<10	NS	NS	<10	15	< 10	<10	<10	NS
Ferrous Iron	decreasing trend	mg/L	2.8	1.4	2.4	0.4	NS	NS	1.6	NR	2.0	0.2	1.9	NS
Hydrogen Sulfide	decreasing trend	mg/L	0.5	--	0.05	--	NS	NS	0.1	--	0.13	0.1	2.0	NS
Temperature	> 20 °C	°C	23.15	24.42	22.99	21.19	NS	NS	22.98	24.84	22.54	20.73	21.75	NS
pH	5 < pH < 9	SU	6.04	5.25	6.52	6.56	NS	NS	3.67	5.77	5.57	6.07	6.60	NS
ORP	increasing trend	mV	-43.5	173	-100	-14.3	NS	NS	48.6	85	23	-16.4	-118.6	NS
Laboratory Parameters														
Sulfate		mg/L	3	5	4.7	4.4	NS	NS	6	3.5	7.2	5.3	4.9	NS
Total Organic Carbon		mg/L	2 U	1 U	4.2	1.1	NS	NS	1 U	1 U	1.4	0.86 J	1.7	NS

Notes:
2X = two times background concentration
mg/L = milligrams per liter
NA = not applicable
NS = not sampled
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
µg/L = micrograms per liter
-- = Analyte not detected above the instrument detection limit
J = Estimated concentration
U = non-detect value
ORP = Oxidation-reduction potential

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

Sample Location			MW-27						MW-28					
Sampling Event			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
Collect Date			6/26/2003	9/25/2003	12/10/2003	3/10/2004	6/8/2004	3/3/2005	6/26/2003	9/25/2003	12/10/2003	3/10/2004	6/8/2004	3/3/2005
	Preferred Range	Units												
Field Parameters														
Dissolved Oxygen (YSI)	> 0.5 mg/L	mg/L	2.0	5.5	2.0	2.0	3.0	2.5	2.0	3.0	2.0	2.0	3.0	1.5
Carbon Dioxide	> 2X	mg/L	40	35	12	13	18	23	40	30	13	13	30	22
Alkalinity	> 2X	mg/L	--	40	12	14	<10	19	38	40	< 10	<10	<10	<10
Ferrous Iron	decreasing trend	mg/L	0.6	0.40	2.2	2.17	0.25	>3.3	3.1	0.40	2.8	2.0	0.9	>3.3
Hydrogen Sulfide	decreasing trend	mg/L	--	--	--	0.1	--	0.3	0.1	--	0.11	0.1	0.7	0.05
Temperature	> 20 °C	°C	21.94	22.53	22.17	20.56	21.54	20.68	22.38	23.42	23.01	21.01	21.38	20.93
pH	5 < pH < 9	SU	5.28	4.88	6.05	7.36	5.10	5.96	5.18	3.79	5.41	4.49	4.67	5.44
ORP	increasing trend	mV	137.3	235	-45	-13	65.4	24.8	-2.7	208	-20	-14.6	23.6	92.6
Laboratory Parameters														
Sulfate		mg/L	11	5.5	10	13	4.3	4.8	3.6	5	7.8	8.4	8.2	8.2
Total Organic Carbon		mg/L	0.9552 U	1 U	0.91 J	0.93 J	0.50 J	<.810	0.8211 U	1 U	1.2	0.69 J	0.73 J	<.810

Notes:
2X = two times background concentration
mg/L = milligrams per liter
NA = not applicable
NS = not sampled
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
µg/L = micrograms per liter
-- = Analyte not detected above the instrument detection limit
J = Estimated concentration
U = non-detect value
ORP = Oxidation-reduction potential

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

Sample Location			MW-29						MW-30					
Sampling Event			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
Collect Date			NS	9/25/2003	12/10/2003	3/10/2004	6/8/2004	NS	NS	NS	NS	NS	6/7/2004	NS
	Preferred Range	Units												
Field Parameters														
Dissolved Oxygen	> 0.5 mg/L	mg/L	NS	5.0	3.0	5.0	3.0	NS	NS	NS	NS	NS	1.0	NS
Carbon Dioxide	> 2X	mg/L	NS	55	14.5	11	27	NS	NS	NS	NS	NS	25	NS
Alkalinity	> 2X	mg/L	NS	40	<10	<10	<10	NS	NS	NS	NS	NS	20	NS
Ferrous Iron	decreasing trend	mg/L	NS	0.20	2.0	1.04	2.11	NS	NS	NS	NS	NS	2.04	NS
Hydrogen Sulfide	decreasing trend	mg/L	NS	--	--	--	--	NS	NS	NS	NS	NS	--	NS
Temperature	> 20 °C	°C	NS	22.93	22.82	21.16	21.84	NS	NS	NS	NS	NS	21.71	NS
pH	5 < pH < 9	SU	NS	5.06	5.75	6.80	5.10	NS	NS	NS	NS	NS	6.22	NS
ORP	increasing trend	mV	NS	180	50	-6.2	153.4	NS	NS	NS	NS	NS	31.5	NS
Laboratory Parameters														
Sulfate		mg/L	NS	8.3	6.5	7.5	7.3	NS	NS	NS	NS	NS	NS	NS
Total Organic Carbon		mg/L	NS	1 U	1.1	1.5	1.4	NS	NS	NS	NS	NS	NS	NS

Notes:
2X = two times background concentration
mg/L = milligrams per liter
NA = not applicable
NS = not sampled
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
µg/L = micrograms per liter
-- = Analyte not detected above the instrument detection limit
J = Estimated concentration
U = non-detect value
ORP = Oxidation-reduction potential

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

Sample Location			MW-32						DMW-35					
Sampling Event			Baseline	1Q	2Q	3Q	4Q	5Q	Baseline	1Q	2Q	3Q	4Q	5Q
Collect Date			6/26/2003	NS	NS	NS	NS	3/3/2005	6/26/2003	9/25/2003	12/10/2003	3/10/2004	6/7/2004	3/2/2005
	Preferred Range	Units												
Field Parameters														
Dissolved Oxygen	> 0.5 mg/L	mg/L	2.5	NS	NS	NS	NS	2.0	5.5	5.0	5.0	5.0	1.0	5.0
Carbon Dioxide	> 2X	mg/L	30	NS	NS	NS	NS	11	40	65	16	16	40	28
Alkalinity	> 2X	mg/L	<10	NS	NS	NS	NS	<10	<10	60	10	<10	<10	<10
Ferrous Iron	decreasing trend	mg/L	0.8	NS	NS	NS	NS	0.2	--	--	--	--	--	0.06
Hydrogen Sulfide	decreasing trend	mg/L	--	NS	NS	NS	NS	--	--	0.03	--	--	--	--
Temperature	> 20 °C	°C	22.06	NS	NS	NS	NS	20.44	23.26	23.19	22.66	21.98	23.02	21.64
pH	5 < pH < 9	SU	5.06	NS	NS	NS	NS	4.57	4.44	3.77	4.45	4.75	4.56	4.57
ORP	increasing trend	mV	95.1	NS	NS	NS	NS	158.3	260.7	372	323	16.5	267.6	175.7
Laboratory Parameters														
Sulfate		mg/L	4.9	NS	NS	NS	NS	7.7	31	16	11	10	6.4	8.80
Total Organic Carbon		mg/L	--	NS	NS	NS	NS	<.810	0.5829 U	1 U	0.37 J	0.45 J	0.37 J	<.810

Notes:
2X = two times background concentration
mg/L = milligrams per liter
NA = not applicable
NS = not sampled
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
µg/L = micrograms per liter
-- = Analyte not detected above the instrument detection limit
J = Estimated concentration
U = non-detect value
ORP = Oxidation-reduction potential

FIGURES

ACAD: 5967CM12.dwg 06/07/05 HJB PIT

SOURCE: USGS TOPOGRAPHIC QUADRANGLE
PENSACOLA, FLORIDA-ALABAMA (1957 EDITION)

DRAWN BY HJB	DATE 6/7/05	
CHECKED BY	DATE	
REVISED BY	DATE	
SCALE NOT TO SCALE		

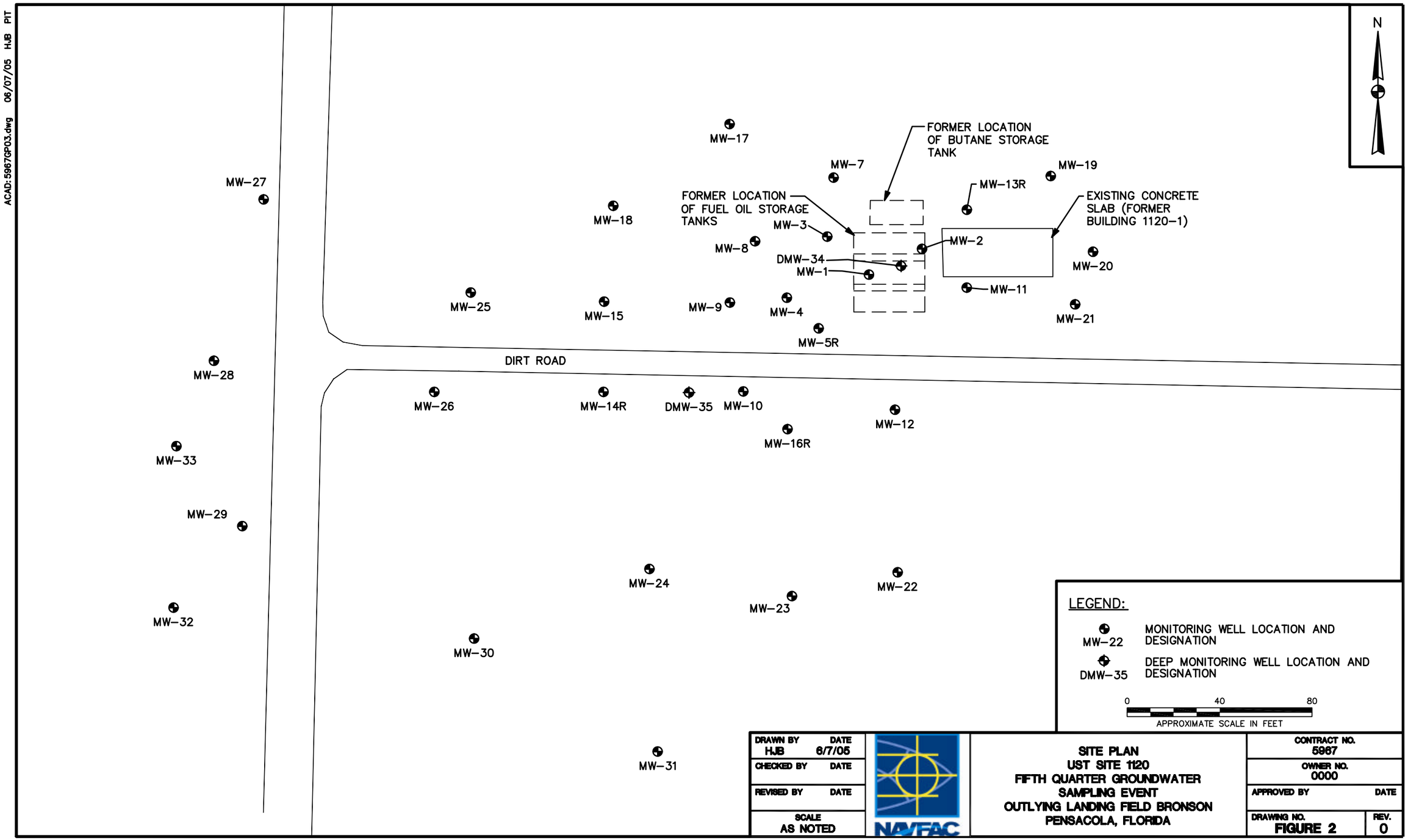
NAVFAC

SITE LOCATION MAP
UST SITE 1120
FIFTH QUARTER GROUNDWATER
SAMPLING EVENT
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

CONTRACT NO. 5967	
OWNER NO. 0000	
APPROVED BY	DATE
DRAWING NO. FIGURE 1	REV. 0

FORM CADD NO. SDIV-BH.DWG - REV 1 - 9/10/98

ACAD:5967GP03.dwg 06/07/05 HJB PIT

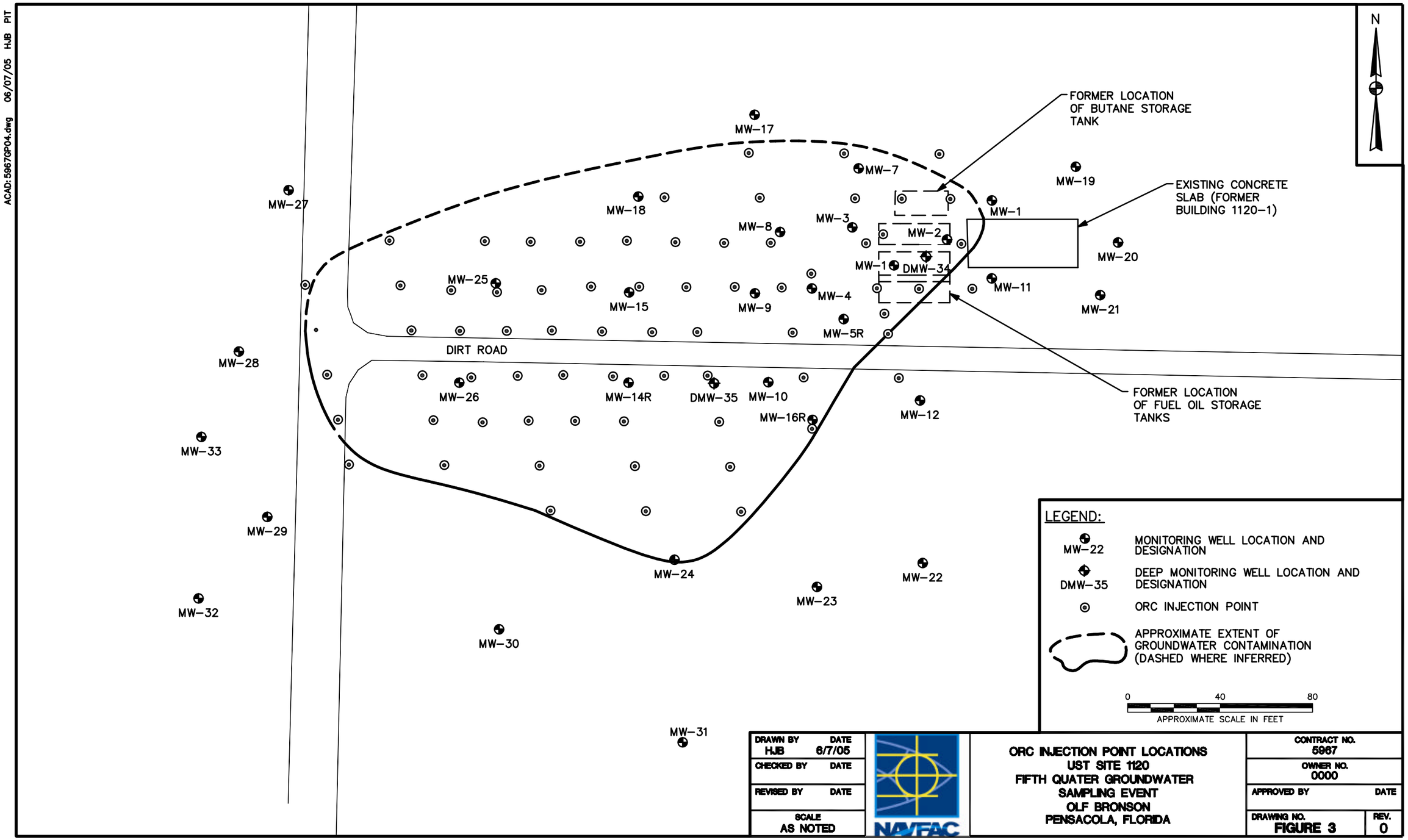


DRAWN BY HJB	DATE 6/7/05	SITE PLAN UST SITE 1120 FIFTH QUARTER GROUNDWATER SAMPLING EVENT OUTLYING LANDING FIELD BRONSON PENSACOLA, FLORIDA	CONTRACT NO. 5967
CHECKED BY	DATE		OWNER NO. 0000
REVISED BY	DATE		APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. FIGURE 2 / REV. 0

NAVFAC

FORM CADD NO. SDIV-BH.DWG - REV 1 - 9/10/98

ACAD:5967GP04.dwg 06/07/05 HJB PIT

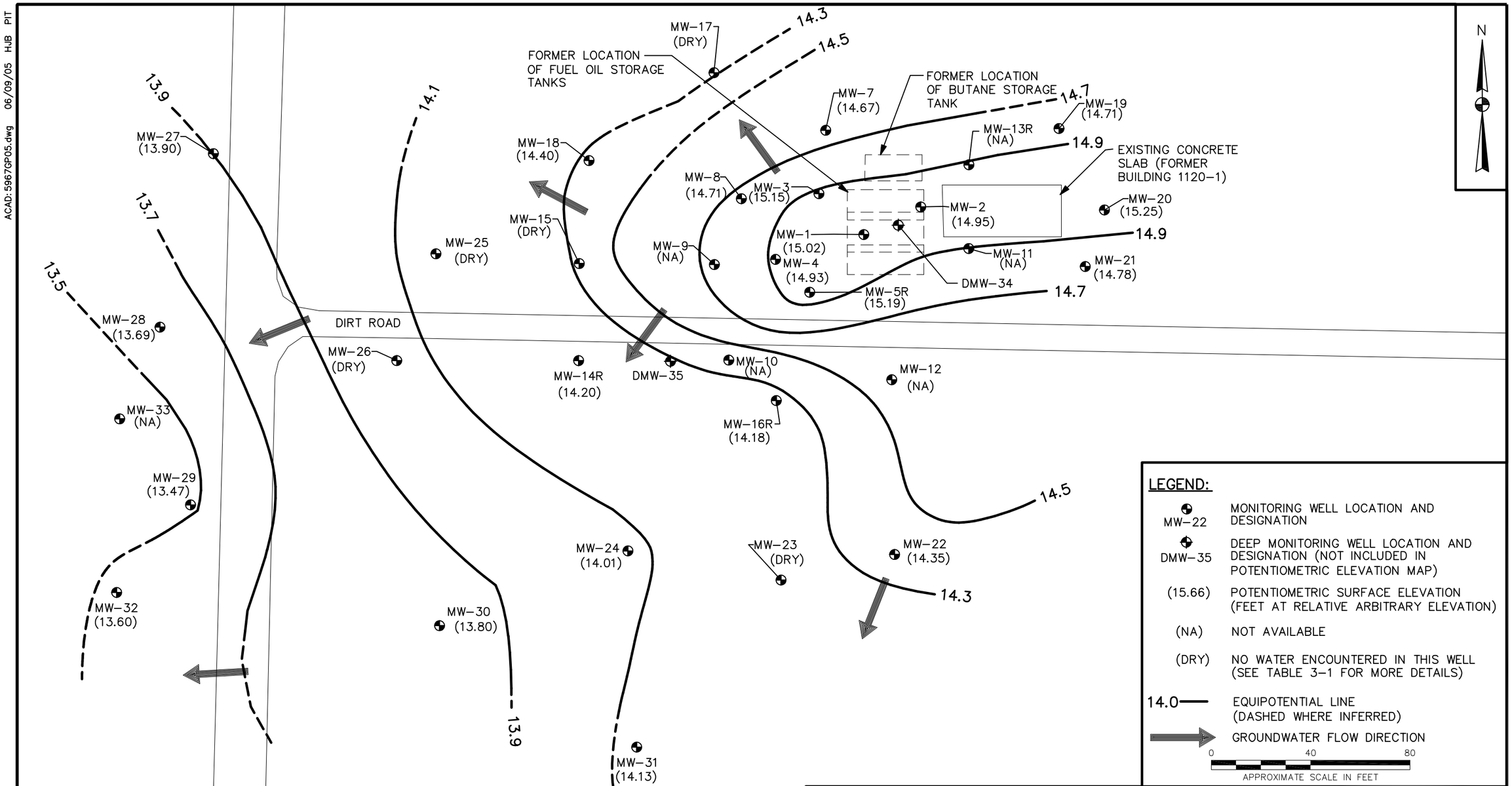


DRAWN BY HJB	DATE 6/7/05	ORC INJECTION POINT LOCATIONS UST SITE 1120 FIFTH QUATER GROUNDWATER SAMPLING EVENT OLF BRONSON PENSACOLA, FLORIDA	CONTRACT NO. 5967
CHECKED BY	DATE		OWNER NO. 0000
REVISED BY	DATE		APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. FIGURE 3 / REV. 0

NAVFAC

FORM CADD NO. SDIV-BH.DWG – REV 1 – 9/10/98

ACAD:5967GP05.dwg 06/09/05 HJB PIT



LEGEND:

MW-22	MONITORING WELL LOCATION AND DESIGNATION
DMW-35	DEEP MONITORING WELL LOCATION AND DESIGNATION (NOT INCLUDED IN POTENTIOMETRIC ELEVATION MAP)
(15.66)	POTENTIOMETRIC SURFACE ELEVATION (FEET AT RELATIVE ARBITRARY ELEVATION)
(NA)	NOT AVAILABLE
(DRY)	NO WATER ENCOUNTERED IN THIS WELL (SEE TABLE 3-1 FOR MORE DETAILS)
14.0	EQUIPOTENTIAL LINE (DASHED WHERE INFERRED)
	GROUNDWATER FLOW DIRECTION

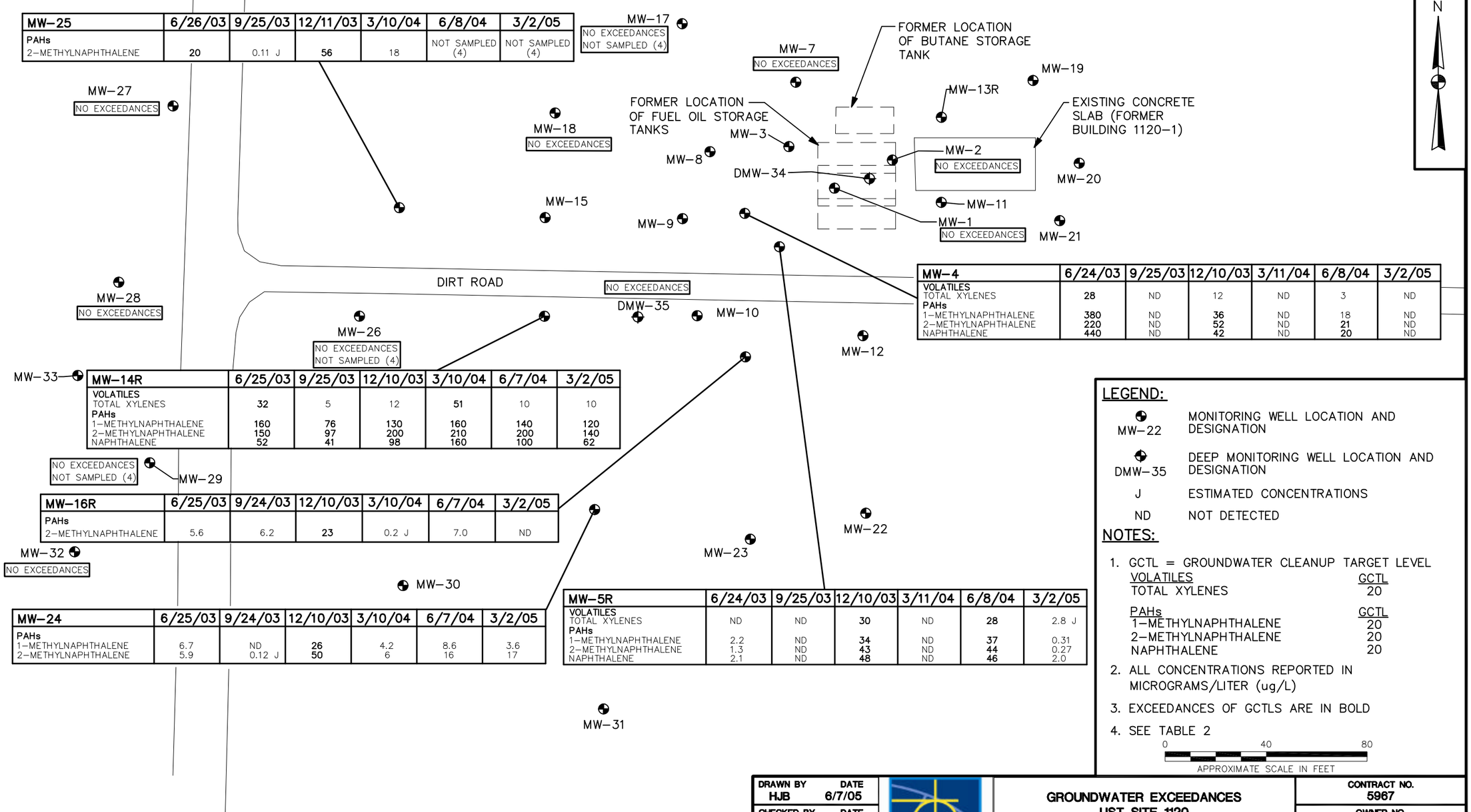
0 40 80
APPROXIMATE SCALE IN FEET

DRAWN BY HJB	DATE 6/7/05	GROUNDWATER POTENTIOMETRIC SURFACE MAP, MARCH 1, 2005 UST SITE 1120 FIFTH QUARTER GROUNWATER SAMPLING EVENT OUTLYING LANDING FIELD BRONSON PENSACOLA, FLORIDA	CONTRACT NO. 5967
CHECKED BY	DATE		OWNER NO. 0000
REVISED BY	DATE		APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. FIGURE 4 / REV. 0

NAVFAC

FORM CADD NO. SDIV-BH.DWG - REV 1 - 9/10/98

ACAD:5967CT13.dwg 06/09/05 HJB PIT



MW-25	6/26/03	9/25/03	12/11/03	3/10/04	6/8/04	3/2/05
PAHs						
2-METHYLNAPHTHALENE	20	0.11 J	**56**	18	NOT SAMPLED (4)	NOT SAMPLED (4)

MW-4	6/24/03	9/25/03	12/10/03	3/11/04	6/8/04	3/2/05
VOLATILES						
TOTAL XYLENES	**28**	ND	12	ND	3	ND
PAHs						
1-METHYLNAPHTHALENE	**380**	ND	**36**	ND	18	ND
2-METHYLNAPHTHALENE	**220**	ND	**52**	ND	**21**	ND
NAPHTHALENE	**440**	ND	**42**	ND	**20**	ND

MW-14R	6/25/03	9/25/03	12/10/03	3/10/04	6/7/04	3/2/05
VOLATILES						
TOTAL XYLENES	**32**	5	12	**51**	10	10
PAHs						
1-METHYLNAPHTHALENE	**160**	**76**	**130**	**160**	**140**	**120**
2-METHYLNAPHTHALENE	**150**	**97**	**200**	**210**	**200**	**140**
NAPHTHALENE	**52**	**41**	**98**	**160**	**100**	**62**

MW-16R	6/25/03	9/24/03	12/10/03	3/10/04	6/7/04	3/2/05
PAHs						
2-METHYLNAPHTHALENE	5.6	6.2	**23**	0.2 J	7.0	ND

MW-24	6/25/03	9/24/03	12/10/03	3/10/04	6/7/04	3/2/05
PAHs						
1-METHYLNAPHTHALENE	6.7	ND	**26**	4.2	8.6	3.6
2-METHYLNAPHTHALENE	5.9	0.12 J	**50**	6	16	17

MW-5R	6/24/03	9/25/03	12/10/03	3/11/04	6/8/04	3/2/05
VOLATILES						
TOTAL XYLENES	ND	ND	**30**	ND	**28**	2.8 J
PAHs						
1-METHYLNAPHTHALENE	2.2	ND	**34**	ND	**37**	0.31
2-METHYLNAPHTHALENE	1.3	ND	**43**	ND	**44**	0.27
NAPHTHALENE	2.1	ND	**48**	ND	**46**	2.0

LEGEND:

MW-22	MONITORING WELL LOCATION AND DESIGNATION
DMW-35	DEEP MONITORING WELL LOCATION AND DESIGNATION
J	ESTIMATED CONCENTRATIONS
ND	NOT DETECTED

NOTES:

1. GCTL = GROUNDWATER CLEANUP TARGET LEVEL

VOLATILES	GCTL
TOTAL XYLENES	20
PAHs	**GCTL**
1-METHYLNAPHTHALENE	20
2-METHYLNAPHTHALENE	20
NAPHTHALENE	20

2. ALL CONCENTRATIONS REPORTED IN MICROGRAMS/LITER (ug/L)
3. EXCEEDANCES OF GCTLS ARE IN BOLD
4. SEE TABLE 2

0 40 80
APPROXIMATE SCALE IN FEET

DRAWN BY	DATE
HJB	6/7/05
CHECKED BY	DATE
REVISED BY	DATE
SCALE	
AS NOTED	

NAVFAC

GROUNDWATER EXCEEDANCES
UST SITE 1120
FIFTH QUARTER GROUNDWATER SAMPLING EVENT
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

CONTRACT NO.	
5967	
OWNER NO.	
0000	
APPROVED BY	DATE
DRAWING NO.	REV.
FIGURE 5	0

FORM CADD NO. SDIV-BH.DWG - REV 1 - 9/10/98

ATTACHMENT A

FIELD DATA FORMS

ATTACHMENT B

GROUNDWATER ANALYTICAL REPORT

ACCURA ANALYTICAL LABS (AAL), INC.

6017 Financial Drive, Norcross, GA 30071
Phone: (770) 449-8800 Fax:(770) 449-5477

Tetra Tech NUS NAS Pensacola / OLF Bronson / N5967
AAL Work Order No: 7738

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ACCURA ANALYTICAL LABORATORY, INC. (AAL)
6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800
FL Certification #E87429 ▪ NC Certification #483
SC Certification #98015 ▪ Utah Certification #AALI1
USACE Approved ▪ Navy Certification Code NFESC 413

Case Narrative

AAL Work Order # 7738

Client Project: NAS Pensacola / OLF Bronson / CTO 302
TtNUS Project Number: N5967
TtNUS Project Manager: Gerry Walker

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package is a total of **289** pages including: table of contents, case narrative, Chain of Custody, Sample Receipt Checklist, QA verification statement, analytical results summary forms, raw sample data, calibration data, and logbook pages.

The following items were noted concerning this work order:

Receiving Notations:

1. The samples were received at 2°C.

Micheal Broome — *March 03, 2005*
Micheal Broome — Date
Receiving

PAHs by SW8270C SIM Notations:

1. The surrogates were diluted out on the second and third dilutions for BRN-1120-MW14R-06, as indicated by the "J" qualifiers; therefore no recoveries could be reported

Chris Pittman — *March 15, 2005*
Chris Pittman — Date
SVOC Analyst

FLA-PRO Notations:

1. Recovery of the spike standard in the Blank Spike was above the laboratory-derived limits, as indicated by the "Z" qualifier. Recoveries of the spike standard in the Matrix Spike and its Duplicate were within acceptable limits; therefore the data was accepted.

Mei Liang — *March 14, 2005*
Mei Liang — Date
Senior GC Analyst

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These case narrative notations have been reviewed/edited by:

David C. Fuller
VP – Client Services

April 7, 2005
Date

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 4300 | 20C **PAGE** 1 **OF** 1

AAL WO# 7738

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N5967	OLF Bronson	Gerry Walker	850-385-9899	Accura Analytical
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
William [illegible]		Howard [illegible]	850-385-[illegible]	6017 Financial Dr
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
		6350 545 49170		Norcross, GA

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

DATE YEAR 2005	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	VOCs (8260)	DAHs (8270SIM)	Sulfate (300.0)	TOC (415.1)	TRPH (FL-Pro)		COMMENTS
				CONTAINER TYPE PLASTIC (P) or GLASS (G)					G	G	P	G	G		
				PRESERVATIVE USED					HCl	4°C	4°C	HCl			
3/2	1745	BRN-1120-MW14R-06	MW14R	15.3	24.58	GW	G	10	3	2	1	2	2	7738-001	see WR#
	1730	MW35-06	MW35	18.10	43.02									7738-002	1001473
	1650	MW2-06	MW2	15.13	23.91									7738-003	under
	1615	MW4-06	MW4	14.15	16.42									7738-004	MSA #
	1515	MW5R-06	MW5R	13.67	25.03									7738-005	MSA-0402-N4113-05
	1510	MW01-06	MW01	14.98	18.75									7738-006	
		TB02402	N/A											7738-007	

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
[illegible]	3/2/05	1400	[illegible]	3/3/05	0920
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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

4/02R
FORM NO. TINUS-001

ACCURA ANALYTICAL LABORATORY, INC.

COPY

SAMPLE RECEIPT CHECKLIST VERSION 6 Client Code: 2106-06 AAL Project Mgr: DCF

Client Project Name: OLF Branson ACCURA Work Order#: 7738

Are there EnCores, tests with < 48Hr hold times, or RUSH TAT's requested? YES (NO)

If YES, you must communicate RUSH analyses to the appropriate analyst(s) immediately!!! / or preserve EnCores (see #16 below)!!!

Preliminary Examination: Initials: Bm Date received: 3/3/05 Date cooler was opened: 3/3/05

1. Did cooler/package come with a shipping slip (airbill, Etc.)? (YES) NO
   If YES, enter carrier name and airbill number here: 7944 2991 4736, 4747
   Describe type of packing in cooler: Bubble Wrap / Ice
   ******If cooler was hand delivered, CIRCLE HERE, skip to item #5******
2. Were custody seals on outside of cooler? YES (NO)
   If YES, how many:_____ seal dated:_____ seal name:_____
3. Were custody seals unbroken and intact at the date and time of arrival? YES (N/A) NO
4. Were custody papers sealed in a plastic bag to prevent damage to chain of custody? (YES) NO
5. If required, was enough ice used? **(Internal cooler temperature, 2°C)** (YES) N/A NO
6. Did you sign custody papers in the appropriate place? (YES) NO
7. Was project identifiable from custody papers? (YES) NO
   If YES, enter project name at the top.

Complete project file with green sheet, proper file tag, and shipping documentation. Line up samples following chain. Complete Container Receipt Verification form (include extra containers for dissolved metals filtrates). Complete login in XENCO and generate AAL ID Labels.

8. Did all containers arrive unbroken and were labels in good condition? (YES) NO
9. Were custody papers filled out properly and did all labels agree with custody papers? (YES) NO
10. Were correct containers and sufficient amount of samples for the test indicated? (YES) NO

COPY

11. All samples collected within three days of date received for these analyses
    (Reactive Cn & S, Solids in H2O, Sulfide, Sulfite, !ALL! Extractable Organic Waters)? (YES) N/A NO
    If NO, coordinate with the project manager to ensure that no samples go out of hold!!!
12. No residual chlorine found in waters for these analyses:
    (Cyanide, PAH, SVOC, Pesticides, PCB's, Herbicides)? (YES) N/A NO
    Checked by: Bm **(Initials)**
13. Were samples properly chemically preserved, if required, upon receipt? (YES) N/A NO
    (For example: pH checked for waters for all Metals, Wet Chemistry, Pesticides, PCB's, Herbicides, and VOC/BTEX samples submitted with HCL for waters and in either Encore samplers or $NaHSO_4$ labeled vials for soils)
    Preservation checked by: Bm **(Initials)**
14. Were air bubbles (>1/4 inch) absent in VOC/BTEX samples? YES N/A (NO) =>
    If NO, list ID # on back and label vials with "Do Not Use Until Notified By Management".
15. If there are samples for dissolved metals, were they field filtered? YES (N/A) NO
    If NO, list date and time samples were filtered and preserved in lab:_____

16. Were Encore samplers included? YES (NO)
    If YES, date and time preserved with $NaHSO_4$:_____ By whom:_____
17. Does this submittal contain soil $NaHSO_4$ vials for BTEX/GRO/VOC'S? YES (NO)
    If YES, vials weighed by and entered into vial database by:_____
18. Initials of laboratory personnel responsible for labeling laboratory I.D. numbers on containers: Bm

Keep samples and chain out. Before moving samples to their appropriate location, another person must review the entire project ensuring that information on the AAL ID Barcode label matches the container label, and that all information is consistent with the chain.
Final check and samples logged to locations by:_____(Initials)

19. Was it necessary to call the assigned project manager in order to proceed with login? YES NO
    If YES, give details on the back of this form.
20. Who was called?_____ By whom?_____ Date/Time:_____

COPY

Project Mgr. Review: DCF **(Initials)** 3/3/05 **(Date)**

ACCURA ANALYTICAL LABORATORY, INC.
SAMPLE RECEIPT VARIANCE FORM

COPY

Item #	Discrepancies Noted:
14-1	BRN-1120-MW-2-10 has 1 vial with >¼" airspace, vial labeled w/ DO NOT USE MGMT. (Do not use unless notified by management).

COPY

Item #	Actions Taken:
14-1	AAL to use remaining vials for testing.

COPY

Project Mgr. Review: [illegible] (Initials) 3/3/05 (Date)

ACCURA ANALYTICAL LABORATORY, INC. (AAL)
6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800
FL Certification #E87429 ▪ NC Certification #483
SC Certification #98015 ▪ Utah Certification #AALI1
USACE Approved ▪ Navy Certification Code NFESC 413

I, John Amirtham, as the designated Quality Assurance Officer, hereby attest that all electronic deliverables have been thoroughly reviewed and are in agreement with the associated hardcopy data. The enclosed electronic files have been reviewed for accuracy (including significant figures), completeness and format. The laboratory will be responsible for any labor time necessary to correct enclosed electronic deliverables that have been found to be in error. I can be reached at 770-449-8800, ext. 205 or JohnA@accura.com, if there are any questions or problems with the enclosed electronic deliverables.

Signature: _____ Title: Manager-Quality Assurance Date: 04/07/05

Revision 7
LL
10/07/04

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW14R-06

Lab Name : ACCURA ANALYTICAL LAB
Contract: N5967
Lab Code : ACCURA
Case No.: 7738
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 7738-001
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 1B030705\B47787
Level : (low/med) LOW
Date Received: 03/03/05
% Moisture:
Decanted: (Y/N) N
Date Extracted: 03/04/05
Concentrated Extract Volume: 1000 (μ L)
Date Analyzed: 03/08/05
Injection Volume: 2.0 (μ L)
Dilution Factor: 1.0
GPC Cleanup (Y/N): N
pH: N/A
Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	91	L
91-57-6	2-Methylnaphthalene	170	L
83-32-9	Acenaphthene	1.7	L
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.13	I
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	3.6	L
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	52	L
85-01-8	Phenanthrene	2.5	L
129-00-0	Pyrene	0.20	U

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SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW14R-06 DIL1

Lab Name : ACCURA ANALYTICAL LAB
Contract: N5967
Lab Code : ACCURA
Case No.: 7738
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 7738-001 DIL1
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 1B030805\B47803
Level : (low/med) LOW
Date Received: 03/03/05
% Moisture:
Decanted: (Y/N) N
Date Extracted: 03/04/05
Concentrated Extract Volume: 1000 (µ L)
Date Analyzed: 03/08/05
Injection Volume: 2.0 (µ L)
Dilution Factor: 5.0
GPC Cleanup (Y/N): N
pH: N/A
Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	110	L
91-57-6	2-Methylnaphthalene	220	L
83-32-9	Acenaphthene	1.7	
208-96-8	Acenaphthylene	1.0	U
120-12-7	Anthracene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
191-24-2	Benzo(g,h,i)perylene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
218-01-9	Chrysene	1.0	U
53-70-3	Dibenz(a,h)Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
86-73-7	Fluorene	3.4	
193-39-5	Indeno(1,2,3-c,d)Pyrene	1.0	U
91-20-3	Naphthalene	59	L
85-01-8	Phenanthrene	2.6	
129-00-0	Pyrene	1.0	U

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SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW14R-06 DIL2

Lab Name : ACCURA ANALYTICAL LAB
Contract: N5967
Lab Code : ACCURA
Case No.: 7738
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 7738-001 DIL2
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 1B030805\B47804
Level : (low/med) LOW
Date Received: 03/03/05
% Moisture: Decanted: (Y/N) N
Date Extracted: 03/04/05
Concentrated Extract Volume: 1000 (μ L)
Date Analyzed: 03/08/05
Injection Volume: 2.0 (μ L)
Dilution Factor: 50.0
GPC Cleanup (Y/N): N pH: N/A
Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	130	L
91-57-6	2-Methylnaphthalene	200	L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	2.8	I
193-39-5	Indeno(1,2,3-c,d)Pyrene	10	U
91-20-3	Naphthalene	62	
85-01-8	Phenanthrene	10	U
129-00-0	Pyrene	10	U

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SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW14R-06 DIL3

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7738-001 DIL3

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B030805\B47805

Level : (low/med) LOW Date Received: 03/03/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/04/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/08/05

Injection Volume: 2.0 (μ L) Dilution Factor: 200.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	120	
91-57-6	2-Methylnaphthalene	140	
83-32-9	Acenaphthene	40	U
208-96-8	Acenaphthylene	40	U
120-12-7	Anthracene	40	U
56-55-3	Benzo(a)anthracene	40	U
50-32-8	Benzo(a)pyrene	40	U
205-99-2	Benzo(b)fluoranthene	40	U
191-24-2	Benzo(g,h,i)perylene	40	U
207-08-9	Benzo(k)fluoranthene	40	U
218-01-9	Chrysene	40	U
53-70-3	Dibenz(a,h)Anthracene	40	U
206-44-0	Fluoranthene	40	U
86-73-7	Fluorene	40	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	40	U
91-20-3	Naphthalene	63	
85-01-8	Phenanthrene	40	U
129-00-0	Pyrene	40	U

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW35-06

Lab Name : ACCURA ANALYTICAL LAB
Contract: N5967
Lab Code : ACCURA
Case No.: 7738
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 7738-002
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 1B030705\B47788
Level : (low/med) LOW
Date Received: 03/03/05
% Moisture:
Decanted: (Y/N) N
Date Extracted: 03/04/05
Concentrated Extract Volume: 1000 (μ L)
Date Analyzed: 03/08/05
Injection Volume: 2.0 (μ L)
Dilution Factor: 1.0
GPC Cleanup (Y/N): N
pH: N/A
Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.20	U
91-57-6	2-Methylnaphthalene	0.20	U
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.20	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	0.20	U
85-01-8	Phenanthrene	0.20	U
129-00-0	Pyrene	0.20	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW2-06

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7738-003

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B030805\B47794

Level : (low/med) LOW Date Received: 03/03/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/04/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/08/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

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

CAS NO.	COMPOUND		Q
90-12-0	1-Methylnaphthalene	2.6	L
91-57-6	2-Methylnaphthalene	3.9	L
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.20	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	1.2	
85-01-8	Phenanthrene	0.20	U
129-00-0	Pyrene	0.20	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW2-06 DIL

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7738-003 DIL

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B030805\B47806

Level : (low/med) LOW Date Received: 03/03/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/04/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/08/05

Injection Volume: 2.0 (μ L) Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	3.1	
91-57-6	2-Methylnaphthalene	3.1	
83-32-9	Acenaphthene	1.0	U
208-96-8	Acenaphthylene	1.0	U
120-12-7	Anthracene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
191-24-2	Benzo(g,h,i)perylene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
218-01-9	Chrysene	1.0	U
53-70-3	Dibenz(a,h)Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
86-73-7	Fluorene	1.0	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	1.0	U
91-20-3	Naphthalene	1.2	
85-01-8	Phenanthrene	1.0	U
129-00-0	Pyrene	1.0	U

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SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW4-06

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7738-004

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B030805\B47795

Level : (low/med) LOW Date Received: 03/03/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/04/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/08/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.20	U
91-57-6	2-Methylnaphthalene	0.20	U
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.20	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	0.20	U
85-01-8	Phenanthrene	0.20	U
129-00-0	Pyrene	0.20	U

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SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW5R-06

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7738-005

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B030805\B47796

Level : (low/med) LOW Date Received: 03/03/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/04/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/08/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.31	
91-57-6	2-Methylnaphthalene	0.27	
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.20	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	2.1	L
85-01-8	Phenanthrene	0.20	U
129-00-0	Pyrene	0.20	U

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW5R-06 DIL

Lab Name : ACCURA ANALYTICAL LAB
Contract: N5967
Lab Code : ACCURA
Case No.: 7738
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 7738-005 DIL
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 1B030805\B47807
Level : (low/med) LOW
Date Received: 03/03/05
% Moisture:
Decanted: (Y/N) N
Date Extracted: 03/04/05
Concentrated Extract Volume: 1000 (µ L)
Date Analyzed: 03/08/05
Injection Volume: 2.0 (µ L)
Dilution Factor: 2.0
GPC Cleanup (Y/N): N
pH: N/A
Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.31	I
91-57-6	2-Methylnaphthalene	0.24	I
83-32-9	Acenaphthene	0.40	U
208-96-8	Acenaphthylene	0.40	U
120-12-7	Anthracene	0.40	U
56-55-3	Benzo(a)anthracene	0.40	U
50-32-8	Benzo(a)pyrene	0.40	U
205-99-2	Benzo(b)fluoranthene	0.40	U
191-24-2	Benzo(g,h,i)perylene	0.40	U
207-08-9	Benzo(k)fluoranthene	0.40	U
218-01-9	Chrysene	0.40	U
53-70-3	Dibenz(a,h)Anthracene	0.40	U
206-44-0	Fluoranthene	0.40	U
86-73-7	Fluorene	0.40	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.40	U
91-20-3	Naphthalene	2.0	
85-01-8	Phenanthrene	0.40	U
129-00-0	Pyrene	0.40	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW01-06

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7738-006

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B030805\B47797

Level : (low/med) LOW Date Received: 03/03/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/04/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/08/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.20	U
91-57-6	2-Methylnaphthalene	0.20	U
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.20	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	0.20	U
85-01-8	Phenanthrene	0.20	U
129-00-0	Pyrene	0.20	U

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
25310 BLK

Lab Name : ACCURA ANALYTICAL LAB
Contract: N5967
Lab Code : ACCURA
Case No.: 7738
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 25310 BLK
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 1B030705\B47780
Level : (low/med) LOW
Date Received:
% Moisture: 0 Decanted: (Y/N) N
Date Extracted: 03/04/05
Concentrated Extract Volume: 1000 (µ L)
Date Analyzed: 03/07/05
Injection Volume: 2.0 (µ L)
Dilution Factor: 1.0
GPC Cleanup (Y/N): N pH: N/A
Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.20	U
91-57-6	2-Methylnaphthalene	0.20	U
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.20	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	0.20	U
85-01-8	Phenanthrene	0.20	U
129-00-0	Pyrene	0.20	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

25310 BKS

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 25310 BKS

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B030705\B47781

Level : (low/med) LOW Date Received: _____

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 03/04/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/07/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.75	
91-57-6	2-Methylnaphthalene	0.75	
83-32-9	Acenaphthene	0.76	
208-96-8	Acenaphthylene	0.77	
120-12-7	Anthracene	0.97	
56-55-3	Benzo(a)anthracene	1.0	
50-32-8	Benzo(a)pyrene	0.92	
205-99-2	Benzo(b)fluoranthene	0.93	
191-24-2	Benzo(g,h,i)perylene	0.93	
207-08-9	Benzo(k)fluoranthene	0.95	
218-01-9	Chrysene	0.93	
53-70-3	Dibenz(a,h)Anthracene	0.96	
206-44-0	Fluoranthene	1.1	
86-73-7	Fluorene	0.82	
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.95	
91-20-3	Naphthalene	0.71	
85-01-8	Phenanthrene	1.0	
129-00-0	Pyrene	0.90	

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

OLFB-1140-MW02-10 MS

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7739-001 MS

Sample wt/vol: 500 (g/ml): ML Lab File ID: 1B030705\B47783

Level : (low/med) LOW Date Received: 03/03/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/04/05

Concentrated Extract Volume: 500 (μ L) Date Analyzed: 03/07/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.59	
91-57-6	2-Methylnaphthalene	0.59	
83-32-9	Acenaphthene	0.63	
208-96-8	Acenaphthylene	0.64	
120-12-7	Anthracene	0.88	
56-55-3	Benzo(a)anthracene	1.0	
50-32-8	Benzo(a)pyrene	0.88	
205-99-2	Benzo(b)fluoranthene	1.0	
191-24-2	Benzo(g,h,i)perylene	0.89	
207-08-9	Benzo(k)fluoranthene	0.86	
218-01-9	Chrysene	0.88	
53-70-3	Dibenz(a,h)Anthracene	0.99	
206-44-0	Fluoranthene	1.0	
86-73-7	Fluorene	0.73	
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.91	
91-20-3	Naphthalene	0.56	
85-01-8	Phenanthrene	0.98	
129-00-0	Pyrene	0.85	

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
OLFB-1140-MW02-10 MSD

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7739-001 MSD

Sample wt/vol: 500 (g/ml): ML Lab File ID: 1B030705\B47784

Level : (low/med) LOW Date Received: 03/03/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/04/05

Concentrated Extract Volume: 500 (µ L) Date Analyzed: 03/08/05

Injection Volume: 2.0 (µ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.65	
91-57-6	2-Methylnaphthalene	0.65	
83-32-9	Acenaphthene	0.64	
208-96-8	Acenaphthylene	0.64	
120-12-7	Anthracene	0.84	
56-55-3	Benzo(a)anthracene	0.92	
50-32-8	Benzo(a)pyrene	0.83	
205-99-2	Benzo(b)fluoranthene	0.93	
191-24-2	Benzo(g,h,i)perylene	0.82	
207-08-9	Benzo(k)fluoranthene	0.87	
218-01-9	Chrysene	0.85	
53-70-3	Dibenz(a,h)Anthracene	0.87	
206-44-0	Fluoranthene	0.95	
86-73-7	Fluorene	0.76	
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.82	
91-20-3	Naphthalene	0.61	
85-01-8	Phenanthrene	0.95	
129-00-0	Pyrene	0.91	

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ACCURA ANALYTICAL LAB Contract: N5967

Lab Code: ACCURA Case No.: 7738 SAS NO.: _____ SDG NO.: N/A

	EPA SAMPLE NO.	S1 (FBP)	S2 (NBZ)	S3 (TPH)	S4 ()	S5 ()	S6 ()	S7 ()	S8 ()	TOT OUT
1	25310 BLK	63	62	105						0
2	25310 BKS	80	77	97						0
3	OLFB-1140-MW02-10 MS	62	60	96						0
4	OLFB-1140-MW02-10 MSD	63	65	96						0
5	BRN-1120-MW14R-06	55	59	96						0
6	BRN-1120-MW35-06	71	64	107						0
7	BRN-1120-MW2-06	74	69	58						0
8	BRN-1120-MW4-06	60	57	68						0
9	BRN-1120-MW5R-06	75	75	59						0
10	BRN-1120-MW01-06	62	48	90						0
11	BRN-1120-MW14R-06 DIL	60	59	98						0
12	BRN-1120-MW14R-06 DIL	0J	0J	0J						3
13	BRN-1120-MW14R-06 DIL	0J	0J	0J						3
14	BRN-1120-MW2-06 DIL	56	63	48						0
15	BRN-1120-MW5R-06 DIL	65	65	58						0

		QC LIMITS	
S1	(FBP) = 2-Fluorobiphenyl	(18 - 96)	
S2	(NBZ) = Nitrobenzene-d5	(25 - 114)	
S3	(TPH) = p-Terphenyl	(18 - 142)	
S4		(-)	
S5		(-)	
S6		(-)	
S7		(-)	(advisory)
S8		(-)	(advisory)

Column to be used to flag recovery values

J ~~*~~ Values outside of contract required QC limits

BP status D Surrogate diluted out

3C
WATER SEMIVOLATILE BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. : N/A

Blank Spike - EPA Sample No. : 25310 BKS

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BKS CONCENTRATION (ug/L)	BKS % REC #	QC LIMITS REC.
1-Methylnaphthalene	1.0	0	0.75	75	30-160
2-Methylnaphthalene	1.0	0	0.75	75	30-160
Acenaphthene	1.0	0	0.76	76	54-114
Acenaphthylene	1.0	0	0.77	77	30-160
Anthracene	1.0	0	0.97	97	30-160
Benzo(a)anthracene	1.0	0	1.0	100	30-160
Benzo(a)pyrene	1.0	0	0.92	92	30-160
Benzo(b)fluoranthene	1.0	0	0.93	93	30-160
Benzo(g,h,i)perylene	1.0	0	0.93	93	30-160
Benzo(k)fluoranthene	1.0	0	0.95	95	30-160
Chrysene	1.0	0	0.93	93	30-160
Dibenz(a,h)Anthracene	1.0	0	0.96	96	30-160
Fluoranthene	1.0	0	1.1	110	30-160
Fluorene	1.0	0	0.82	82	30-160
Indeno(1,2,3-c,d)Pyrene	1.0	0	0.95	95	30-160
Naphthalene	1.0	0	0.71	71	30-160
Phenanthrene	1.0	0	1.0	100	30-160
Pyrene	1.0	0	0.90	90	51-129

Column to be used to flag recovery and RPD values with and asterisk

* Values outside of QC limits

RPD 0 out of 18 outside limit

Spike Recovery 0 out of 36 outside limit

Comments : _____

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA CASE No. :7738 SAS No. : _____ SDG No. : N/A

Matrix Spike - EPA Sample No. OLFB-1140-MW02-10 MS

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC LIMITS REC.
1-Methylnaphthalene	1.0	0	0.59	59	50-150
2-Methylnaphthalene	1.0	0	0.59	59	50-150
Acenaphthene	1.0	0	0.63	63	32-121
Acenaphthylene	1.0	0	0.64	64	50-150
Anthracene	1.0	0	0.88	88	50-150
Benzo(a)anthracene	1.0	0	1.0	100	50-150
Benzo(a)pyrene	1.0	0	0.88	88	50-150
Benzo(b)fluoranthene	1.0	0	1.0	100	50-150
Benzo(g,h,i)perylene	1.0	0	0.89	89	50-150
Benzo(k)fluoranthene	1.0	0	0.86	86	50-150
Chrysene	1.0	0	0.88	88	50-150
Dibenz(a,h)Anthracene	1.0	0	0.99	99	50-150
Fluoranthene	1.0	0	1.0	100	50-150
Fluorene	1.0	0	0.73	73	50-150
Indeno(1,2,3-c,d)Pyrene	1.0	0	0.91	91	50-150
Naphthalene	1.0	0	0.56	56	50-150
Phenanthrene	1.0	0	0.98	98	50-150
Pyrene	1.0	0	0.85	85	22-140

COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC
1-Methylnaphthalene	1.0	0.65	65	10	30	50-150
2-Methylnaphthalene	1.0	0.65	65	10	30	50-150
Acenaphthene	1.0	0.64	64	2	30	32-121
Acenaphthylene	1.0	0.64	64	0	30	50-150
Anthracene	1.0	0.84	84	5	30	50-150
Benzo(a)anthracene	1.0	0.92	92	8	30	50-150
Benzo(a)pyrene	1.0	0.83	83	6	30	50-150
Benzo(b)fluoranthene	1.0	0.93	93	7	30	50-150
Benzo(g,h,i)perylene	1.0	0.82	82	8	30	50-150
Benzo(k)fluoranthene	1.0	0.87	87	1	30	50-150
Chrysene	1.0	0.85	85	3	30	50-150
Dibenz(a,h)Anthracene	1.0	0.87	87	13	30	50-150
Fluoranthene	1.0	0.95	95	5	30	50-150
Fluorene	1.0	0.76	76	4	30	50-150
Indeno(1,2,3-c,d)Pyrene	1.0	0.82	82	10	30	50-150

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA CASE No. : 7738 SAS No. : _____ SDG No. : N/A

Matrix Spike - EPA Sample No. OLFB-1140-MW02-10 MS

COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC
Naphthalene	1.0	0.61	61	9	30	50-150
Phenanthrene	1.0	0.95	95	3	30	50-150
Pyrene	1.0	0.91	91	7	30	22-140

Column to be used to flag recovery and RPD Values with and asterisk.
* Values outside of QC limits

RPD 0 Out of 18 outside Limit

Spike Recovery : 0 Out of 36 outside limit

Comments : _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
25310 BLK

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : SDG No. : N/A

Lab File ID 1B030705\B47780.D Lab Sample ID : 25310 BLK

Instrument ID : HP-MSB Date Extracted : 03/04/05

Matrix : (soil/ water) WATER Date Analyzed : 03/07/05

Level : (low/med) LOW Time Analyzed : 22:22

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD :

	EPA SAMPLE NO..	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	25310 BKS	25310 BKS	1B030705\B47781.D	03/07/05
2	OLFB-1140-MW02-10 MS	7739-001 MS	1B030705\B47783.D	03/07/05
3	OLFB-1140-MW02-10 MSD	7739-001 MSD	1B030705\B47784.D	03/08/05
4	BRN-1120-MW14R-06	7738-001	1B030705\B47787.D	03/08/05
5	BRN-1120-MW35-06	7738-002	1B030705\B47788.D	03/08/05
6	BRN-1120-MW2-06	7738-003	1B030805\B47794.D	03/08/05
7	BRN-1120-MW4-06	7738-004	1B030805\B47795.D	03/08/05
8	BRN-1120-MW5R-06	7738-005	1B030805\B47796.D	03/08/05
9	BRN-1120-MW01-06	7738-006	1B030805\B47797.D	03/08/05
10	BRN-1120-MW14R-06 DIL1	7738-001 DIL1	1B030805\B47803.D	03/08/05
11	BRN-1120-MW14R-06 DIL2	7738-001 DIL2	1B030805\B47804.D	03/08/05
12	BRN-1120-MW14R-06 DIL3	7738-001 DIL3	1B030805\B47805.D	03/08/05
13	BRN-1120-MW2-06 DIL	7738-003 DIL	1B030805\B47806.D	03/08/05
14	BRN-1120-MW5R-06 DIL	7738-005 DIL	1B030805\B47807.D	03/08/05

COMMENTS:

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : SDG No. : N/A

Lab File ID : DFTPP Injection Date : 03/07/05

Instrument ID : HP-MSB DFTPP Injection Time : 14:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	37.9	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	49.5	
70	Less than 2.0% of mass 69	0.0	(0.0)1
127	40.0 - 60.0% of mass 198	47.8	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.5	
275	10.0 - 30.0% of mass 198	21.1	
365	Greater than 1.0% of mass 198	1.7	
441	Present, but less than mass 443	6.2	
442	40.0 - 110.0% of mass 198	42.6	
443	17.0 - 23.0% of mass 442	8.0	(18.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS :

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD010B49	SSTD010B49	1B030705\B47766	03/07/05	15:06
2	SSTD020B49	SSTD020B49	1B030705\B47767	03/07/05	15:37
3	SSTD050B49	SSTD050B49	1B030705\B47768	03/07/05	16:09
4	SSTD050B49	SSTD050B49	1B030705\B47768	03/07/05	16:09
5	SSTD080B49	SSTD080B49	1B030705\B47769	03/07/05	16:40
6	SSTD120B49	SSTD120B49	1B030705\B47770	03/07/05	17:11
7	SSTD160B49	SSTD160B49	1B030705\B47771	03/07/05	17:42
8	SSTD050B50	SSTD050B50	1B030705\B47773	03/07/05	18:44
9	25310 BLK	25310 BLK	1B030705\B47780	03/07/05	22:22
10	25310 BKS	25310 BKS	1B030705\B47781	03/07/05	22:53
11	OLFB-1140-MW02-10 MS	7739-001 MS	1B030705\B47783	03/07/05	23:56
12	OLFB-1140-MW02-10 MSD	7739-001 MSD	1B030705\B47784	03/08/05	00:27
13	BRN-1120-MW14R-06	7738-001	1B030705\B47787	03/08/05	02:00
14	BRN-1120-MW35-06	7738-002	1B030705\B47788	03/08/05	02:31

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : SDG No. : N/A

Lab File ID : DFTPP Injection Date : 03/08/05

Instrument ID : HP-MSB DFTPP Injection Time : 12:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	39.8	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	50.0	
127	40.0 - 60.0% of mass 198	47.6	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.5	
275	10.0 - 30.0% of mass 198	20.8	
365	Greater than 1.0% of mass 198	1.8	
441	Present, but less than mass 443	6.1	
442	40.0 - 110.0% of mass 198	41.8	
443	17.0 - 23.0% of mass 442	8.0	(19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS :

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD050B51	SSTD050B51	1B030805\B47790	03/08/05	12:49
2	BRN-1120-MW2-06	7738-003	1B030805\B47794	03/08/05	14:52
3	BRN-1120-MW4-06	7738-004	1B030805\B47795	03/08/05	15:23
4	BRN-1120-MW5R-06	7738-005	1B030805\B47796	03/08/05	15:55
5	BRN-1120-MW01-06	7738-006	1B030805\B47797	03/08/05	16:25
6	BRN-1120-MW14R-06 DIL1	7738-001 DIL1	1B030805\B47803	03/08/05	19:32
7	BRN-1120-MW14R-06 DIL2	7738-001 DIL2	1B030805\B47804	03/08/05	20:03
8	BRN-1120-MW14R-06 DIL3	7738-001 DIL3	1B030805\B47805	03/08/05	20:34
9	BRN-1120-MW2-06 DIL	7738-003 DIL	1B030805\B47806	03/08/05	21:05
10	BRN-1120-MW5R-06 DIL	7738-005 DIL	1B030805\B47807	03/08/05	21:36

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. : N/A

Instrument ID: HP-MSB Calibration Date(s): 03/07/05 03/07/05

Calibration Times: 15:06 17:42

LAB FILE ID: RRF10 = 1B030705\B47766 RRF20 = 1B030705\B47767

RRF50 = 1B030705\B47768 RRF80 = 1B030705\B47769 RRF120 = 1B030705\B47770

COMPOUND		RRF10	RRF20	RRF50	RRF80	RRF120	$\overline{RRF}$	% RSD
1-Methylnaphthalene	*	0.724	0.714	0.793	0.757	0.794		
2-Methylnaphthalene	*	0.427	0.446	0.458	0.489	0.515		
Acenaphthene	*	1.717	1.693	1.733	1.761	1.824		
Acenaphthylene	*	2.406	2.396	2.545	2.670	2.817		
Anthracene	*	1.408	1.349	1.409	1.507	1.524		
Benzo(a)anthracene	*	1.234	1.085	1.173	1.284	1.398		
Benzo(a)pyrene	*	1.995	1.754	1.811	1.853	1.882		
Benzo(b)fluoranthene	*	1.252	1.273	1.288	1.555	1.537		
Benzo(g,h,i)perylene	*	1.803	1.652	1.580	1.764	1.710		
Benzo(k)fluoranthene	*	2.726	2.501	2.734	2.531	2.671		
Chrysene	*	2.164	2.087	2.129	2.084	2.045		
Dibenz(a,h)Anthracene	*	1.019	0.942	0.843	1.058	1.050		
Fluoranthene	*	1.401	1.537	1.392	1.519	1.577		
Fluorene	*	1.452	1.586	1.588	1.577	1.797		
Indeno(1,2,3-c,d)Pyrene	*	1.725	1.697	1.620	1.784	1.831		
Naphthalene	*	1.409	1.504	1.508	1.533	1.541		
Phenanthrene	*	1.056	1.058	1.118	1.161	1.276		
Pyrene	*	3.057	2.850	3.254	2.998	3.405		
2-Fluorobiphenyl	*	2.299	2.574	2.865	2.895	2.988		
Nitrobenzene-d5	*	0.481	0.505	0.487	0.530	0.546		
p-Terphenyl-d14	*	1.257	1.080	1.168	1.136	1.222		

Compounds with required minimum RRF

* Compounds with maximum %RSD Values

All other compounds must meet a minimum RRF of

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. : N/A

Instrument ID: HP-MSB Calibration Date(s): 03/07/05 03/07/05

Calibration Times: 15:06 15:37

LAB FILE I RRF160 = 1B030705\B47771 RRF7 = _____

COMPOUND		RRF160	RRF7	$\overline{RRF}$	% RSD
1-Methylnaphthalene	*	0.761		0.757	4.43
2-Methylnaphthalene	*	0.523		0.476	8.12
Acenaphthene	*	1.809		1.756	2.96
Acenaphthylene	*	2.818		2.609	7.31
Anthracene	*	1.554		1.459	5.55
Benzo(a)anthracene	*	1.428		1.267	10.35
Benzo(a)pyrene	*	1.969		1.877	4.91
Benzo(b)fluoranthene	*	1.693		1.433	12.97
Benzo(g,h,i)perylene	*	1.818		1.721	5.36
Benzo(k)fluoranthene	*	2.719		2.647	3.94
Chrysene	*	2.017		2.088	2.57
Dibenz(a,h)Anthracene	*	1.113		1.004	9.65
Fluoranthene	*	1.634		1.510	6.40
Fluorene	*	1.810		1.635	8.57
Indeno(1,2,3-c,d)Pyrene	*	1.964		1.770	6.75
Naphthalene	*	1.531		1.504	3.27
Phenanthrene	*	1.302		1.162	9.15
Pyrene	*	3.186		3.125	6.32
2-Fluorobiphenyl	*	2.998		2.770	10.01
Nitrobenzene-d5	*	0.600		0.525	8.46
p-Terphenyl-d14	*	1.187		1.175	5.34

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of 0.010.

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. _____

Instrument ID: HP-MSB Calibration Date: 03/07/05 Time: 18:44

Lab File ID 1B030705\B47773.D Init. Calib. Date(s): 03/07/05 03/07/05

EPA Sample No. : SSTD050B50 Init.Calib. Times: 15:06 17:11

GC Column: ZB-D5 ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1-Methylnaphthalene	0.757	0.842		11.27	
2-Methylnaphthalene	0.476	0.493		3.51	
Acenaphthene	1.756	1.842		4.88	
Acenaphthylene	2.609	2.747		5.32	
Anthracene	1.458	1.589		8.94	
Benzo(a)anthracene	1.267	1.339		5.70	
Benzo(a)pyrene	1.877	2.118		12.80	
Benzo(b)fluoranthene	1.433	1.666		16.28	
Benzo(g,h,i)perylene	1.721	1.892		9.95	
Benzo(k)fluoranthene	2.647	2.948		11.37	
Chrysene	2.088	1.991		-4.63	
Dibenz(a,h)anthracene	1.004	1.115		11.02	
Fluoranthene	1.510	1.622		7.44	
Fluorene	1.635	1.740		6.44	
Indeno(1,2,3-c,d)pyrene	1.770	1.728		-2.39	
Naphthalene	1.504	1.612		7.14	
Phenanthrene	1.162	1.340		15.30	
Pyrene	3.125	3.028		-3.08	
2-Fluorobiphenyl	2.770	2.521	0.00	-8.98	0.0
Nitrobenzene-d5	0.525	0.505	0.00	-3.68	0.0
p-Terphenyl-d14	1.175	1.065	0.00	-9.31	0.0

Compounds with required minimum RRF

* Compounds with maximum %RSD Values

All other compounds must meet a minimum RRF of 0.(

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. _____

Instrument ID: HP-MSB Calibration Date: 03/08/05 Time: 12:49

Lab File ID 1B030805\B47790.D Init. Calib. Date(s): 03/07/05 03/07/05

EPA Sample No. : SSTD050B51 Init.Calib. Times: 15:06 17:11

GC Column: 1 ID: 1 (mm)

COMPOUND		$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1-Methylnaphthalene	*	0.757	0.788	0.000	4.14	0.0
2-Methylnaphthalene	*	0.476	0.441	0.000	-7.47	0.0
Acenaphthene	*	1.756	1.743	0.000	-0.74	0.0
Acenaphthylene	*	2.609	2.508	0.000	-3.88	0.0
Anthracene	*	1.458	1.390	0.000	-4.68	0.0
Benzo(a)anthracene	*	1.267	1.115	0.000	-12.03	0.0
Benzo(a)pyrene	*	1.877	1.824	0.000	-2.85	0.0
Benzo(b)fluoranthene	*	1.433	1.345	0.000	-6.14	0.0
Benzo(g,h,i)perylene	*	1.721	1.637	0.000	-4.87	0.0
Benzo(k)fluoranthene	*	2.647	2.631	0.000	-0.61	0.0
Chrysene	*	2.088	2.206	0.000	5.70	0.0
Dibenz(a,h)Anthracene	*	1.004	0.935	0.000	-6.82	0.0
Fluoranthene	*	1.510	1.446	0.000	-4.25	0.0
Fluorene	*	1.635	1.552	0.000	-5.07	0.0
Indeno(1,2,3-c,d)Pyrene	*	1.770	1.646	0.000	-7.02	0.0
Naphthalene	*	1.504	1.515	0.000	0.72	0.0
Phenanthrene	*	1.162	1.069	0.000	-8.00	0.0
Pyrene	*	3.125	3.346	0.000	7.09	0.0
2-Fluorobiphenyl	*	2.770	2.610	0.00	-5.76	0.0
Nitrobenzene-d5	*	0.525	0.456	0.00	-13.04	0.0
p-Terphenyl-d14	*	1.175	1.297	0.00	10.39	0.0

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. N/A

Instrument ID: HP-MSB Date Analyzed: 03/07/05

Lab File ID: 1B030705\B47768 Time Analyzed : 16:09

EPA Sample No. SSTD050B49 GC Column: ZB-D5 ID: .25 (mm)

		IS1 (DCB) AREA	RT #	IS2 (NPT) AREA	RT #	IS3 (ANT) AREA	RT #
	12 HOUR STD	6093	5.68	11527	7.64	4284	10.61
	UPPER LIMIT	12186	6.18	23054	8.14	8568	11.11
	LOWER LIMIT	3047	5.18	5764	7.14	2142	10.11
	EPA SAMPLE						
1	25310 BLK	5583	5.69	9974	7.66	3982	10.62
2	25310 BKS	5196	5.69	10311	7.65	3898	10.62
3	OLFB-1140-MW02-10 MS	4873	5.70	9687	7.65	3649	10.62
4	OLFB-1140-MW02-10 MSD	4540	5.70	9014	7.65	3667	10.62
5	BRN-1120-MW14R-06	4632	5.70	10566	7.65	4789	10.62
6	BRN-1120-MW35-06	4525	5.70	10361	7.65	4051	10.62

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of the QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. N/A

Instrument ID: HP-MSB Date Analyzed: 03/07/05

Lab File ID: 1B030705\B47768 Time Analyzed : 16:09

EPA Sample No. : SSTD050B49 GC Column: ZB-D5 ID: .25 (mm)

		IS4 (PHN) AREA	RT #	IS5 (CRY) AREA	RT #	IS6 (PRY) AREA	RT #
	12 HOUR STD	4249	13.13	2181	17.71	1299	20.01
	UPPER LIMIT	8498	13.63	4362	18.21	2598	20.51
	LOWER LIMIT	2125	12.63	1091	17.21	650	19.51
	EPA SAMPLE						
1	25310 BLK	3321	13.15	2199	17.73	1409	20.02
2	25310 BKS	3792	13.14	2465	17.71	1607	20.01
3	OLFB-1140-MW02-10 MS	3882	13.14	2539	17.71	1591	20.02
4	OLFB-1140-MW02-10 MSD	3937	13.14	2207	17.72	1312	20.02
5	BRN-1120-MW14R-06	5379	13.14	3331	17.71	2044	20.01
6	BRN-1120-MW35-06	4206	13.15	2643	17.73	1652	20.03

IS4 (PHN) = phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of the QC limits

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. N/A

Instrument ID: HP-MSB Date Analyzed: 03/08/05

Lab File ID: 1B030805\B47790 Time Analyzed : 12:49

EPA Sample No. SSTD050B51 GC Column: 1 ID: 1 (mm)

		IS1 (DCB) AREA	RT #	IS2 (NPT) AREA	RT #	IS3 (ANT) AREA	RT #
	12 HOUR STD	5898	5.68	11143	7.64	4338	10.60
	UPPER LIMIT	11796	6.18	22286	8.14	8676	11.10
	LOWER LIMIT	2949	5.18	5572	7.14	2169	10.10
	EPA SAMPLE						
1	BRN-1120-MW2-06	3875	5.68	7950	7.64	2760	10.60
2	BRN-1120-MW4-06	4762	5.68	9476	7.64	3476	10.60
3	BRN-1120-MW5R-06	3638	5.68	7207	7.64	2804	10.60
4	BRN-1120-MW01-06	4344	5.68	8721	7.64	3516	10.60
5	BRN-1120-MW14R-06 DIL1	4279	5.67	10192	7.62	4337	10.59
6	BRN-1120-MW14R-06 DIL2	4521	5.68	9998	7.63	3885	10.59
7	BRN-1120-MW14R-06 DIL3	3292	5.69	7652	7.64	2763	10.59
8	BRN-1120-MW2-06 DIL	3844	5.68	7163	7.64	3158	10.59
9	BRN-1120-MW5R-06 DIL	3940	5.68	7622	7.63	3012	10.59

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of the QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. N/A

Instrument ID: HP-MSB Date Analyzed: 03/08/05

Lab File ID: 1B030805\B47790 Time Analyzed : 12:49

EPA Sample No. : SSTD050B51 GC Column: 1 ID: 1 (mm)

		IS4 (PHN) AREA	RT #	IS5 (CRY) AREA	RT #	IS6 (PRY) AREA	RT #
	12 HOUR STD	4633	13.13	2488	17.71	1519	20.01
	UPPER LIMIT	9266	13.63	4976	18.21	3038	20.51
	LOWER LIMIT	2317	12.63	1244	17.21	760	19.51
	EPA SAMPLE						
1	BRN-1120-MW2-06	3145	13.13	2146	17.71	1334	20.00
2	BRN-1120-MW4-06	3621	13.13	2224	17.71	1396	20.00
3	BRN-1120-MW5R-06	3509	13.12	2389	17.70	1521	19.99
4	BRN-1120-MW01-06	3623	13.13	2255	17.71	1462	20.00
5	BRN-1120-MW14R-06 DIL1	4257	13.11	2570	17.70	1583	20.00
6	BRN-1120-MW14R-06 DIL2	3257	13.13	1771	17.73	1161	20.02
7	BRN-1120-MW14R-06 DIL3	2593	13.17	1488	17.78	761	20.04
8	BRN-1120-MW2-06 DIL	3198	13.12	2071	17.71	1470	20.00
9	BRN-1120-MW5R-06 DIL	3209	13.12	1950	17.71	1256	19.99

IS4 (PHN) = phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of the QC limits

Certificate of Analytical Results 7738

Tetra Tech NUS -Tallahassee, Tallahassee, FL

NAS Pensacola / OLF Bronson / CTO 302

Sample Id: **BRN-1120-MW14R-06** Matrix: **WATER** % Moisture:
Lab Sample Id: **7738-001** Date Collected: **Mar-02-05 17:45** Date Received: **Mar-03-05 09:20**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 11:24 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	0.57	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 17:15 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	2.37	2.00	0.810	mg/L		1

Sample Id: **BRN-1120-MW35-06** Matrix: **WATER** % Moisture:
Lab Sample Id: **7738-002** Date Collected: **Mar-02-05 17:30** Date Received: **Mar-03-05 09:20**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 11:42 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	8.8	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 18:15 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	BRL	2.00	0.810	mg/L	U	1

*

Certificate of Analytical Results 7738

Tetra Tech NUS -Tallahassee, Tallahassee, FL

NAS Pensacola / OLF Bronson / CTO 302

Sample Id: **BRN-1120-MW2-06** Matrix: **WATER** % Moisture:
Lab Sample Id: **7738-003** Date Collected: **Mar-02-05 16:50** Date Received: **Mar-03-05 09:20**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 12:51 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	6.0	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 18:30 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	3.22	2.00	0.810	mg/L		1

Sample Id: **BRN-1120-MW4-06** Matrix: **WATER** % Moisture:
Lab Sample Id: **7738-004** Date Collected: **Mar-02-05 16:15** Date Received: **Mar-03-05 09:20**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 13:09 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	5.8	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 18:45 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	1.33	2.00	0.810	mg/L	I	1

Certificate of Analytical Results 7738

Tetra Tech NUS -Tallahassee, Tallahassee, FL

NAS Pensacola / OLF Bronson / CTO 302

Sample Id: **BRN-1120-MW5R-06** Matrix: **WATER** % Moisture:
Lab Sample Id: **7738-005** Date Collected: **Mar-02-05 15:15** Date Received: **Mar-03-05 09:20**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 13:26 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	5.4	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 19:00 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	2.90	2.00	0.810	mg/L		1

Sample Id: **BRN-1120-MW01-06** Matrix: **WATER** % Moisture:
Lab Sample Id: **7738-006** Date Collected: **Mar-02-05 15:10** Date Received: **Mar-03-05 09:20**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 14:18 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	9.5	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 19:45 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	1.89	2.00	0.810	mg/L	I	1

Sample Id: Matrix: **WATER** % Moisture:
Lab Sample Id: **25818 BLK** Date Collected: Date Received:
Sample Depth:

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 16:45 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	BRL	2.00	0.810	mg/L	U	1

*

Certificate of Analytical Results 7738

Tetra Tech NUS -Tallahassee, Tallahassee, FL

NAS Pensacola / OLF Bronson / CTO 302

Sample Id:	Matrix: **WATER**	% Moisture:
Lab Sample Id: **25825 BLK**	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 10:49 Analyst: LJB01 Date Prep: Tech: LJB01

Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	BRL	0.10	0.062	mg/L	U	1

*

Blank Spike Recovery

Project Name: NAS Pensacola / OLF Bronson / CTO 302

Report Date: 04/06/05 13:08

Work Order #: 7738 **Project ID:** N5967

Lab Batch #: 25825 **Sample:** 25825 BKS **Matrix:** W

Reporting Units: mg/L **Batch #:** 1

Anions by SW9056 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
	BLANK /BLANK SPIKE RECOVERY STUDY					
Sulfate	<0.062	10	10	100	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Version: 1.%

BS / BSD Recoveries

Project Name: NAS Pensacola / OLF Bronson / CTO 302

Report Date 04/06/05 13:08

Work Order #: 7738

Project ID: N5967

Lab Batch ID: 25818 **Sample:** 25818 BKS **Batch #:** 1 **Matrix:** W

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Total Organic Carbon by SW9060 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Total Organic Carbon	<0.810	50.0	47.3	95	50.0	48.1	96	1	80-120	30	

Relative Percent Difference RPD = 200*|(D-G)/(D+G)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

F = RPD exceeded the laboratory control limits

Form 3 - MS / MSD Recoveries

Project Name: NAS Pensacola / OLF Bronson / CTO 302

Report Date: 04/06/05 13:08

Work Order # : 7738

Project ID: N5967

Lab Batch ID: 25825 **QC- Sample ID:** 7738-002 MS **Batch #:** 1 **Matrix:** W

Reporting Units: mg/L

Anions by SW9056 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Sulfate	8.8	10	21	122	10	21	122	0	70-130	20	

Lab Batch ID: 25818 **QC- Sample ID:** 7738-001 MS **Batch #:** 1 **Matrix:** W

Reporting Units: mg/L

Total Organic Carbon by SW9060 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Total Organic Carbon	2.37	50.0	47.6	90	50.0	49.4	94	4	50-150	30	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

* = RPD exceeded the laboratory control limits

Sample Duplicate Recovery

Project Name: NAS Pensacola / OLF Bronson / CTO 302

Report Date: 04/06/05 13:08

Work Order #: 7738

Lab Batch #: 25825

Project ID: N5967

QC- Sample ID: 7738-002 MD

Batch #: 1

Matrix: W

Reporting Units: mg/L

Anions by SW9056	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Sulfate	8.8	9.4	7	20	

Lab Batch #: 25825

QC- Sample ID: 7739-002 MD

Batch #: 1

Matrix: W

Reporting Units: mg/L

Anions by SW9056	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Sulfate	25	25	0	20	

Lab Batch #: 25818

QC- Sample ID: 7738-001 MD

Batch #: 1

Matrix: W

Reporting Units: mg/L

Total Organic Carbon by SW9060	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total Organic Carbon	2.37	2.36	0	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
F = RPD exceeded the laboratory control limits

Version: 1.%

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW14R-06

Lab Name	ACCURA ANALYTICAL LABORAT	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7738	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7738-001
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030405\A12611
Level (low/med):	LOW	Date Received:	03/03/05
% Moisture: not dec.		Date Analyzed:	03/04/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	5.5	
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	0.33	I
1330-20-7	Xylenes, Total	10	

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW35-06

Lab Name	ACCURA ANALYTICAL LABORAT	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7738	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7738-002
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030405\A12612
Level (low/med):	LOW	Date Received:	03/03/05
% Moisture: not dec.		Date Analyzed:	03/04/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	0.27	I
1330-20-7	Xylenes, Total	3.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW2-06

Lab Name	ACCURA ANALYTICAL LABORAT	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7738	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7738-003
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030405\A12613
Level (low/med):	LOW	Date Received:	03/03/05
% Moisture: not dec.		Date Analyzed:	03/04/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	1.0	U
1330-20-7	Xylenes, Total	3.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW4-06

Lab Name	ACCURA ANALYTICAL LABORAT	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7738	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7738-004
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030405\A12614
Level (low/med):	LOW	Date Received:	03/03/05
% Moisture: not dec.		Date Analyzed:	03/04/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	1.0	U
1330-20-7	Xylenes, Total	3.0	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW5R-06

Lab Name	ACCURA ANALYTICAL LABORAT	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7738	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7738-005
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030405\A12615
Level (low/med):	LOW	Date Received:	03/03/05
% Moisture: not dec.		Date Analyzed:	03/04/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	0.96	I
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	1.0	U
1330-20-7	Xylenes, Total	2.8	I

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW01-06

Lab Name	ACCURA ANALYTICAL LABORAT	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7738	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7738-006
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030405\A12616
Level (low/med):	LOW	Date Received:	03/03/05
% Moisture: not dec.		Date Analyzed:	03/04/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	1.0	U
1330-20-7	Xylenes, Total	3.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB02402

Lab Name	ACCURA ANALYTICAL LABORAT	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7738	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7738-007
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030405\A12617
Level (low/med):	LOW	Date Received:	03/03/05
% Moisture: not dec.		Date Analyzed:	03/04/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	1.0	U
1330-20-7	Xylenes, Total	3.0	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

25375 BLK

Lab Name	ACCURA ANALYTICAL LABORAT	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7738	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	25375 BLK
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030405\A12608
Level (low/med):	LOW	Date Received:	
% Moisture: not dec0		Date Analyzed:	03/04/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	1.0	U
1330-20-7	Xylenes, Total	3.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

25375 BKS

Lab Name	ACCURA ANALYTICAL LABORAT	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7738	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	25375 BKS
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030405\A12609
Level (low/med):	LOW	Date Received:	
% Moisture: not dec	0	Date Analyzed:	03/04/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	43	
100-41-4	Ethylbenzene	45	
1634-04-4	Methyl tert-butyl ether	45	
108-88-3	Toluene	45	
1330-20-7	Xylenes, Total	140	

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW4-06 MS

Lab Name	ACCURA ANALYTICAL LABORAT	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7738	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7738-004 MS
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030405\A12618
Level (low/med):	LOW	Date Received:	03/03/05
% Moisture: not dec.		Date Analyzed:	03/04/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	43	
100-41-4	Ethylbenzene	46	
1634-04-4	Methyl tert-butyl ether	42	
108-88-3	Toluene	45	
1330-20-7	Xylenes, Total	140	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW4-06 MSD

Lab Name	ACCURA ANALYTICAL LABORAT	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7738	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7738-004 MSD
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030405\A12619
Level (low/med):	LOW	Date Received:	03/03/05
% Moisture: not dec.		Date Analyzed:	03/04/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	44	
100-41-4	Ethylbenzene	45	
1634-04-4	Methyl tert-butyl ether	44	
108-88-3	Toluene	44	
1330-20-7	Xylenes, Total	140	

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ACCURA ANALYTICAL LABORAT Contract: N5967

Lab Code ACCURA Case No. 7738 SAS No. :

SDG No. : N/A

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (BFB) #	SMC3 (TOL) #	OTHER	TOT OUT
1	25375 BLK	97	86	97		0
2	25375 BKS	94	85	94		0
3	BRN-1120-MW14R-06	96	90	98		0
4	BRN-1120-MW35-06	101	88	100		0
5	BRN-1120-MW2-06	94	85	96		0
6	BRN-1120-MW4-06	98	89	100		0
7	BRN-1120-MW5R-06	97	89	101		0
8	BRN-1120-MW01-06	95	87	98		0
9	TB02402	98	88	100		0
10	BRN-1120-MW4-06 MS	91	84	94		0
11	BRN-1120-MW4-06 MSD	96	85	93		0

		QC LIMITS
SMC1	(DCE) = 1,2-Dichloroethane-d4	(63 - 128)
SMC2	(BFB) = 4-Bromofluorobenzene	(77 - 117)
SMC3	(TOL) = Toluene-d8	(84 - 115)
Other		(-)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY

Lab Name: **ACCURA ANALYTICAL LABORAT** Contract : **N5967**

Lab Code : **ACCURA** Case No. : **7738** SAS No. : _____ SDG No. : **N/A**

Blank Spike - EPA Sample No. **25375 BKS**

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BKS CONCENTRATION (ug/L)	BKS % REC #	QC LIMITS REC.
Benzene	50	0	43	86	71-125
Ethylbenzene	50	0	45	90	85-117
Methyl tert-butyl ether	50	0	45	90	74-122
Toluene	50	0	45	90	79-119
Xylenes, Total	150	0	140	93	79-119

Column to be used to flag recovery and RPD values with and asterisk

* Values outside of QC limits

RPD 0 out of 5 outside limit

Spike Recovery 0 out of 10 outside limit

Comments : _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: **ACCURA ANALYTICAL LABORAT** Contract : **N5967**

Lab Code : **ACCURA** CASE No. : **7738** SAS No. : _____

Matrix Spike - EPA Sample No **BRN-1120-MW4-06** SDG No. : **N/A**

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC LIMITS REC.
Benzene	50	0	43	86	65-131
Ethylbenzene	50	0	46	92	84-118
Methyl tert-butyl ether	50	0	42	84	67-126
Toluene	50	0	45	90	81-119
Xylenes, Total	150	0	140	93	74-125

COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
Benzene	50	44	88	2	25	65-131
Ethylbenzene	50	45	90	2	25	84-118
Methyl tert-butyl ether	50	44	88	5	25	67-126
Toluene	50	44	88	2	25	81-119
Xylenes, Total	150	140	93	0	25	74-125

Column to be used to flag recovery and RPD Values with and asterisk.

* Values outside of QC limits

RPD 0 Out of 5 Outside Limit

Spike Recovery : 0 Out of 10 Outside limit

Comments : _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

25375 BLK

Lab Name : **ACCURA ANALYTICAL LABORAT** Contract : N5967

Lab Code : **ACCURA** Case No. : **7738** SAS No. :

Lab File ID :**A030405\A12608** SDG No. : N/A

Date Analyzed **03/04/05** Lab Sample ID : **A030405\A12608**

GC Column : ID : 0 (mm) Time Analyzed : **12:21**

Instrument ID : **HP-MSA** Heated Purge (Y/N) :

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	EPA SAMPLE NO..	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	25375 BKS	25375 BKS	A030405\A12609	12:49
2	BRN-1120-MW14R-06	7738-001	A030405\A12611	13:54
3	BRN-1120-MW35-06	7738-002	A030405\A12612	14:22
4	BRN-1120-MW2-06	7738-003	A030405\A12613	14:50
5	BRN-1120-MW4-06	7738-004	A030405\A12614	15:18
6	BRN-1120-MW5R-06	7738-005	A030405\A12615	15:45
7	BRN-1120-MW01-06	7738-006	A030405\A12616	16:13
8	TB02402	7738-007	A030405\A12617	16:41
9	BRN-1120-MW4-06 MS	7738-004 MS	A030405\A12618	17:09
10	BRN-1120-MW4-06 MSD	7738-004 MSD	A030405\A12619	17:37

Comments

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : **ACCURA ANALYTICAL LABORAT** Contract : N5967

Lab Code : **ACCURA** Case No. : **7738** SAS No. :

Lab File ID : SDG No. : **N/A**

Instrument ID : **HP-MSA** BFB Injection Date : **01/04/05**

GC Column : ID : (mm) BFB Injection Time : **10:40**

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0%of mass 95	52.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	85.9
175	5.0 - 9.0% of mass 174	7.4 (8.6)1
176	95.0 - 101.0% of mass 174	83.1 (96.7)1
177	5.0 - 9.0% of mass 176	5.3 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS :

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD005A01	VSTD005A01	A010405\A11939	01/04/05	11:30
2	VSTD010A01	VSTD010A01	A010405\A11940	01/04/05	11:58
3	VSTD020A01	VSTD020A01	A010405\A11941	01/04/05	12:25
4	VSTD050A01	VSTD050A01	A010405\A11942	01/04/05	12:52
5	VSTD100A01	VSTD100A01	A010405\A11943	01/04/05	13:19
6	VSTD200A01	VSTD200A01	A010405\A11944	01/04/05	13:47
7	VSTD001A01	VSTD001A01	A010405\A11946	01/04/05	15:14
8	VSTD050A01	VSTD050A01	A010405\A11947	01/04/05	15:50

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : **ACCURA ANALYTICAL LABORAT** Contract : N5967

Lab Code : **ACCURA** Case No. : **7738** SAS No. :

Lab File ID : **A030405\A12605.** SDG No. : **N/A**

Instrument ID : **HP-MSA** BFB Injection Date : **03/04/05**

GC Column : ID : (mm) BFB Injection Time : **10:03**

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	21.8	
75	30.0 - 60.0%of mass 95	54.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	7.4	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 100.0% of mass 95	82.9	
175	5.0 - 9.0% of mass 174	6.6	(8.0)1
176	95.0 - 101.0% of mass 174	80.7	(97.4)1
177	5.0 - 9.0% of mass 176	5.8	(7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS :

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050A36	VSTD050A36	A030405\A12606	03/04/05	11:25
2	25375 BLK	25375 BLK	A030405\A12608	03/04/05	12:21
3	25375 BKS	25375 BKS	A030405\A12609	03/04/05	12:49
4	BRN-1120-MW14R-06	7738-001	A030405\A12611	03/04/05	13:54
5	BRN-1120-MW35-06	7738-002	A030405\A12612	03/04/05	14:22
6	BRN-1120-MW2-06	7738-003	A030405\A12613	03/04/05	14:50
7	BRN-1120-MW4-06	7738-004	A030405\A12614	03/04/05	15:18
8	BRN-1120-MW5R-06	7738-005	A030405\A12615	03/04/05	15:45
9	BRN-1120-MW01-06	7738-006	A030405\A12616	03/04/05	16:13
10	TB02402	7738-007	A030405\A12617	03/04/05	16:41
11	BRN-1120-MW4-06 MS	7738-004 MS	A030405\A12618	03/04/05	17:09
12	BRN-1120-MW4-06 MSD	7738-004 MSD	A030405\A12619	03/04/05	17:37

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name : ACCURA ANALYTICAL LABORAT Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____

Instrument ID: HP-MSA SDG No. N/A

GC Column _____ ID: _____ (mm Calibration Date(s): 01/04/05 01/04/05

Heated Purge (Y/N) : N Calibration Times: 11:30 15:14

LAB FILE ID: RRF1 A010405\A11946 RRF5 A010405\A11939

RRF10 A010405\A11940 RRF20 A010405\A11941 RRF50 A010405\A11942

COMPOUND		RRF1	RRF5	RRF10	RRF20	RRF50	RRF	% RSD
Benzene	*	2.080	2.019	2.115	2.091	1.898		
Ethylbenzene	*	2.112	1.878	1.984	1.997	1.799		
Methyl tert-butyl ether	*	1.410	1.459	1.544	1.558	1.434		
Toluene	*	1.760	1.617	1.670	1.694	1.545		
Xylenes, Total	*	0.725	0.659	0.696	0.690	0.631		
1,2-Dichloroethane-d4	*		0.772	0.820	0.763	0.722		
Bromofluorobenzene	*		1.025	1.069	1.208	1.001		
Toluene-d8	*		1.284	1.348	1.326	1.310		

Compounds with required minimum RRF

* Compounds with maximum %RSD Values

All other compounds must meet a minimum RRF of 0.010.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name : ACCURA ANALYTICAL LA Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. N/A

Instrument ID: HP-MSA Calibration Date(s): 01/04/05 01/04/05

GC Column DB ID: _____ (mm Calibration Times: 11:30 15:14

Heated Purge (Y/N) : N

LAB FILE I RRF100 = A010405\A11943 RRF200 A010405\A11944

COMPOUND		RRF100	RRF200	RRF	% RSD	
Benzene	*	1.850	1.741	1.971	7.24	
Ethylbenzene	*	1.726	1.591	1.870	9.54	
Methyl tert-butyl ether	*	1.407	1.371	1.455	4.90	
Toluene	*	1.496	1.378	1.594	8.20	
Xylenes, Total	*	0.601	0.555	0.651	9.17	
1,2-Dichloroethane-d4	*	0.678	0.647	0.734	8.76	
Bromofluorobenzene	*	1.134	0.902	1.056	10.11	*
Toluene-d8	*	1.250	1.174	1.282	4.91	

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LABORAT Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____

Instrument ID HP-MSA SDG No. : _____

Lab File I A010405\A11947.D Calibration Date: 01/04/05 Time: 15:50

EPA Sample No. VSTD050A01 Init. Calib. Date(s): 01/04/05 01/04/05

Heated Purge (Y/N) : _____ Init.Calib. Times 11:30 15:14

GC Colum _____ ID: _____ (mm

COMPOUND		$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzene	*	1.971	1.782	0.100	-9.58	20.0
Ethylbenzene	*	1.870	1.696	0.100	-9.31	20.0
Methyl tert-butyl ether	*	1.455	1.360	0.100	-6.53	20.0
Toluene	*	1.594	1.442	0.100	-9.54	20.0
Xylenes, Total	*	0.651	0.595	0.100	-8.61	20.0
1,2-Dichloroethane-d4	*	0.734	0.695	0.100	-5.26	20.0
Bromofluorobenzene	*	1.056	0.954	0.100	-9.69	20.0
Toluene-d8	*	1.282	1.269	0.100	-1.01	20.0

Compounds with required minimum RRF
* Compounds with maximum %RSD valu

All other Compounds must meet a minimum RRF of 0.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LABORAT Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. :

Instrument ID HP-MSA SDG No. :

Lab File I A030405\A12606.D Calibration Date: 03/04/05 Time: 11:25

EPA Sample No. VSTD050A36 Init. Calib. Date(s): 01/04/05 01/04/05

Heated Purge (Y/N) : Init.Calib. Times 11:30 15:14

GC Colum ID: (mm

COMPOUND		$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzene	*	1.971	1.755	0.100	-10.92	20.0
Ethylbenzene	*	1.870	1.720	0.100	-7.99	20.0
Methyl tert-butyl ether	*	1.455	1.323	0.100	-9.04	20.0
Toluene	*	1.594	1.420	0.100	-10.91	20.0
Xylenes, Total	*	0.651	0.598	0.100	-8.18	20.0
1,2-Dichloroethane-d4	*	0.734	0.684	0.100	-6.75	20.0
Bromofluorobenzene	*	1.056	0.894	0.100	-15.40	20.0
Toluene-d8	*	1.282	1.180	0.100	-7.96	20.0

Compounds with required minimum RRF
* Compounds with maximum %RSD valu

All other Compounds must meet a minimum RRF of 0.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : ACCURA ANALYTICAL LABORAT Contract N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____

Instrument ID HP-MSA SDG No. N/A

Lab File ID: A030405\A12606 Date Analyzed: 03/04/05

EPA Sample No. VSTD050A36 Time Analyzed : 11:25

GC Column _____ ID: _____ (mm Heated Purge (Y/N) _____

		IS1 (PFB) AREA	RT #	IS2 (CBZ) AREA	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	437237	5.11	599050	8.63	355458	11.11
	UPPER LIMIT	874474	5.61	1198100	9.13	710916	11.61
	LOWER LIMIT	218619	4.61	299525	8.13	177729	10.61
	EPA SAMPLE						
1	25375 BLK	417683	5.12	561778	8.63	334984	11.11
2	25375 BKS	424905	5.12	564500	8.63	333155	11.12
3	BRN-1120-MW14R-06	423697	5.12	544929	8.64	330953	11.12
4	BRN-1120-MW35-06	422447	5.12	569442	8.64	339930	11.12
5	BRN-1120-MW2-06	429131	5.12	569584	8.64	338104	11.12
6	BRN-1120-MW4-06	387569	5.13	520248	8.64	314406	11.12
7	BRN-1120-MW5R-06	414356	5.14	543341	8.65	321933	11.13
8	BRN-1120-MW01-06	416156	5.13	555011	8.64	334666	11.12
9	TB02402	413545	5.13	545874	8.64	323301	11.12
10	BRN-1120-MW4-06 MS	417712	5.13	549536	8.64	333221	11.12
11	BRN-1120-MW4-06 MSD	398337	5.13	552595	8.64	323754	11.12

IS1 (PFB) = Pentafluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of the QC limits

1D

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW14R-06

Lab Name : ACCURA ANALYTICAL LABORAT Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7738-001

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 030805\O10456

Level : (low/med) LOW Date Received: 03/03/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/07/05

Concentrated Extract Volume: 2000 (μ L) Date Analyzed: 03/08/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	5.1	

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW35-06

Lab Name : ACCURA ANALYTICAL LABORAT
Contract: N5967
Lab Code : ACCURA
Case No.: 7738
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 7738-002
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 030805\O10457
Level : (low/med) LOW
Date Received: 03/03/05
% Moisture:
Decanted: (Y/N) N
Date Extracted: 03/07/05
Concentrated Extract Volume: 2000 (μ L)
Date Analyzed: 03/08/05
Injection Volume: 2.0 (μ L)
Dilution Factor: 1.0
GPC Cleanup (Y/N): N
pH: N/A
Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	1.7	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW2-06

Lab Name : ACCURA ANALYTICAL LABORAT Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7738-003

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 030805\O10458

Level : (low/med) LOW Date Received: 03/03/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/07/05

Concentrated Extract Volume: 2000 (μ L) Date Analyzed: 03/09/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	0.68	I

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW4-06

Lab Name : ACCURA ANALYTICAL LABORAT Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7738-004

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 030805\O10459

Level : (low/med) LOW Date Received: 03/03/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/07/05

Concentrated Extract Volume: 2000 (μ L) Date Analyzed: 03/09/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	1.7	U

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW5R-06

Lab Name : ACCURA ANALYTICAL LABORAT
Contract: N5967
Lab Code : ACCURA
Case No.: 7738
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 7738-005
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 030805\O10460
Level : (low/med) LOW
Date Received: 03/03/05
% Moisture:
Decanted: (Y/N) N
Date Extracted: 03/07/05
Concentrated Extract Volume: 2000 (μ L)
Date Analyzed: 03/09/05
Injection Volume: 2.0 (μ L)
Dilution Factor: 1.0
GPC Cleanup (Y/N): N
pH: N/A
Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	1.1	I

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW01-06

Lab Name : ACCURA ANALYTICAL LABORAT Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7738-006

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 030805\O10461

Level : (low/med) LOW Date Received: 03/03/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/07/05

Concentrated Extract Volume: 2000 (μ L) Date Analyzed: 03/09/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	0.32	I

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
25330 BLK

Lab Name : ACCURA ANALYTICAL LABORAT
Contract: N5967
Lab Code : ACCURA
Case No.: 7738
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 25330 BLK
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 030805\O10444
Level : (low/med) LOW
Date Received:
% Moisture: 0 Decanted: (Y/N) N
Date Extracted: 03/07/05
Concentrated Extract Volume: 2000 (μ L)
Date Analyzed: 03/08/05
Injection Volume: 2.0 (μ L)
Dilution Factor: 1.0
GPC Cleanup (Y/N): N pH: N/A
Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	1.7	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

25330 BKS

Lab Name : ACCURA ANALYTICAL LABORAT Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 25330 BKS

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 030805\O10442

Level : (low/med) LOW Date Received: _____

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 03/07/05

Concentrated Extract Volume: 2000 (μ L) Date Analyzed: 03/08/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	4.9	

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

Effluent-46 MS

Lab Name : ACCURA ANALYTICAL LABORAT Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7733-002 MS

Sample wt/vol: 500 (g/ml): ML Lab File ID: 030805\O10450

Level : (low/med) LOW Date Received: 03/02/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/07/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/08/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	4.0	

1D

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

Effluent-46 MSD

Lab Name : ACCURA ANALYTICAL LABORAT Contract: N5967

Lab Code : ACCURA Case No.: 7738 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7733-002 MSD

Sample wt/vol: 500 (g/ml): ML Lab File ID: 030805\O10451

Level : (low/med) LOW Date Received: 03/02/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/07/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/08/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	3.5	

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ACCURA ANALYTICAL LABORAT Contract: N5967

Lab Code: ACCURA Case No. : 7738 SAS NO. : _____ SDG NO. : N/A

	EPA SAMPLE NO.	S1 (OTPH)	S2 (C39)	S3 ( )	S4 ( )	S5 ( )	S6 ( )	S7 ( )	S8 ( )	TOT OUT
1	25330 BKS	107	36							0
2	25330 BLK	94	28							0
3	Effluent-46 MS	107	37							0
4	Effluent-46 MSD	93	32							0
5	BRN-1120-MW14R-06	100	47							0
6	BRN-1120-MW35-06	98	100							0
7	BRN-1120-MW2-06	75	93							0
8	BRN-1120-MW4-06	74	44							0
9	BRN-1120-MW5R-06	82	76							0
10	BRN-1120-MW01-06	94	49							0

		QC LIMITS	
S1	(OTPH) = o-Terphenyl	(10 - 144)	
S2	(C39) = C39	(17 - 148)	
S3		(-)	
S4		(-)	
S5		(-)	
S6		(-)	
S7		(-)	(advisory)
S8		(-)	(advisory)

Column to be used to flag recovery values

Z Values outside of contract required QC limits

D Surrogate diluted out

3C

WATER SEMIVOLATILE BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LABORAT Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. : N/A

Blank Spike - EPA Sample No. : 25330 BKS

COMPOUND	SPIKE ADDED	BLANK CONCENTRATION	BKS CONCENTRATION	BKS % REC #	QC LIMITS REC.
	(mg/L)	(mg/L)	(mg/L)		
Petroleum Range Organics	4.3	0	4.9	114	41-110

Column to be used to flag recovery and RPD values with and asterisk

* Values outside of QC limits

RPD 0 out of 1 outside limit

Spike Recovery 1 out of 2 outside limit

Comments : _____

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LABORAT Contract : N5967

Lab Code : ACCURA CASE No. :7738 SAS No. : _____ SDG No. : N/A

Matrix Spike - EPA Sample No. Effluent-46 MS

COMPOUND	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	MS CONCENTRATION mg/L	MS % REC #	QC LIMITS REC.
Petroleum Range Organics	4.3	0	4.0	93	41-101

COMPOUND	SPIKE ADDED mg/L	MSD CONCENTRATION mg/L	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC
Petroleum Range Organics	4.3	3.5	81	14	20	41-101

Column to be used to flag recovery and RPD Values with and asterisk.
* Values outside of QC limits

RPD 0 Out of 1 outside Limit

Spike Recovery : 0 Out of 2 outside limit

Comments : _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
25330 BLK

Lab Name : ACCURA ANALYTICAL LABORAT Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : SDG No. : N/A

Lab File ID 030805\O10444.D Lab Sample ID : 25330 BLK

Instrument ID : HP-GCO Date Extracted : 03/07/05

Matrix : (soil/ water) WATER Date Analyzed : 03/08/05

Level : (low/med) LOW Time Analyzed : 15:34

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD :

	EPA SAMPLE NO..	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	25330 BKS	25330 BKS	030805\O10442.D	03/08/05
2	Effluent-46 MS	7733-002 MS	030805\O10450.D	03/08/05
3	Effluent-46 MSD	7733-002 MSD	030805\O10451.D	03/08/05
4	BRN-1120-MW14R-06	7738-001	030805\O10456.D	03/08/05
5	BRN-1120-MW35-06	7738-002	030805\O10457.D	03/08/05
6	BRN-1120-MW2-06	7738-003	030805\O10458.D	03/09/05
7	BRN-1120-MW4-06	7738-004	030805\O10459.D	03/09/05
8	BRN-1120-MW5R-06	7738-005	030805\O10460.D	03/09/05
9	BRN-1120-MW01-06	7738-006	030805\O10461.D	03/09/05

COMMENTS:

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name : ACCURA ANALYTICAL LAB. Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. : N/A

Instrument ID: HP-GCO Calibration Date(s): 02/28/05 02/28/05

Calibration Times: 11:50 14:39

LAB FILE ID:

RRF850 = 022805\O10298 RRF170 = 022805\O10299

RRF212 = 022805\O10300 RRF425 = 022805\O10301 RRF595 = 022805\O10302

COMPOUND	RRF850	RRF170	RRF212	RRF425	RRF595	$\overline{RRF}$	% RSD
Petroleum Range Organics *	29253.609	27991.792	28724.503	29130.176	29980.013	29016.019	2.52
o-Terphenyl	40868.161	43020.047	44965.361	44204.884	47552.384	44122.168	5.58
C(39)	3418.576		4871.817	3877.203	4125.865	4073.365	14.92

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LAB. Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. _____

Instrument ID: HP-GCO Calibration Date: 03/08/05 Time: 13:38

Lab File 030805\O10441.D Init. Calib. Date(s): 02/28/05 02/28/05

EPA Sample No. : FLPRO4250 Init.Calib. Times: 11:50 14:39

GC Column: _____ ID: _____ (mm)

COMPOUND		$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Petroleum Range Organics	*	29016.018	29104.382		0.30	25.0
o-Terphenyl		44122.168	44741.642		1.40	25.0
C(39)		4073.365	3872.389		4.90	25.0

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LAB. Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. _____

Instrument ID: HP-GCO Calibration Date: 03/08/05 Time: 21:22

Lab File 030805\O10453.D Init. Calib. Date(s): 02/28/05 02/28/05

EPA Sample No. : FLPRO4250 Init.Calib. Times: 11:50 14:39

GC Column: _____ ID: _____ (mm)

COMPOUND		$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Petroleum Range Organics	*	29016.018	30154.405		3.92	25.0
o-Terphenyl		44122.168	47411.667		7.46	25.0
C(39)		4073.365	4285.146		5.2	25.0

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LAB. Contract : N5967

Lab Code : ACCURA Case No. : 7738 SAS No. : _____ SDG No. _____

Instrument ID: HP-GCO Calibration Date: 03/09/05 Time: 04:25

Lab File 030805\O10464.D Init. Calib. Date(s): 02/28/05 02/28/05

EPA Sample No. : FLPRO4250 Init.Calib. Times: 11:50 14:39

GC Column: _____ ID: _____ (mm)

COMPOUND		$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Petroleum Range Organics	*	29016.018	27763.432		-4.32	25.0
o-Terphenyl		44122.168	42219.999		-4.31	25.0
C(39)		4073.365	4827.044		18.5	25.0

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of

Semi-Volatiles GC/MS DATA CHECKLIST
SW-846-8270C

W.O. # / DUE DATE 7738/3/17/05	METHOD: 8270C
MATRIX: Water	

INITIAL ANALYST ASSESSMENT

Are all standards within expiration dates for both stock and serial standards?	Y	N	
Are Tuning results compliant with method?	Y	N	
Are DDT breakdown and tailing factors within method limits?	Y	N	
Are all percent difference results acceptable for CCV?	Y	N	
Are all SPCC Response Factors acceptable for CCV?	Y	N	
Are all CCV Internal Standard areas within -50% to +100% of initial calibration midlevel standard?	Y	N	
Are all CCV Internal Standard retention times within 30 seconds of initial cal. midlevel standard?	Y	N	
Are all sample Internal Standard areas w/in -50% to +100% of that in the CCV?	Y	N	
Are all sample Internal Standard retention times w/in 30 seconds of that in the CCV?	Y	N	
Is blank result less than 1/2 RDL for all analytes of interest?	Y	N	
Are all surrogate and spike recoveries acceptable for the BLK/BKS/BSD/MS/MSD?	Y	N	
If all surrogate and spike recoveries were not acceptable for QC, was a Quality Notice Form completed?	Y	N	NA
Are all surrogate standard recoveries acceptable for samples?	Y	N	
Were sample analyses performed within holding times?	Y	N	
If sample analyses were not performed within holding times, was a Quality Notice Form completed?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	
Are all requested analytes below the upper calibration limit?	Y	N	
If interfering ions are present, was identification made by looking at characteristic ions only?	Y	N	NA
Were TICS required? If so, were steps in section 8.1.8 followed in AAL SOP 09-OR-8270.I?	Y	N	NA
Have the samples been reviewed, and **all** false positives deleted?	Y	N	
Are all samples and supporting data (LQCF, QC Charts, Runlog and Batchbook Copies) in the folder?	Y	N	

Analyst: CTP	
Date: 3/15/05	Time: 16:55

PEER REVIEW

Are Tuning results, DDT breakdown and tailing factors compliant with method?	Y	N
Are all CCC drift results and SPCC Response Factors acceptable for CCV?	Y	N
Are all CCV Internal Standard areas and retention times within method limits?	Y	N
Are all sample Internal Standard areas and retention times within method limits?	Y	N
Are all blank and QC results acceptable?	Y	N
Are all surrogate standard recoveries acceptable for samples?	Y	N
Are quantitations based on the latest acceptable initial calibration?	Y	N
Are all calculations correct and reported in the proper units?	Y	N
Were sample analyses performed within holding times?	Y	N
Is the run log completely filled out (including review signature/date)?	Y	N
Have all samples and supporting data been included in the folder?	Y	N
Have all LIMS entries been checked for accuracy?	Y	N
Has the W.O. been upgraded to status 50?	Y	N

Reviewer: [signature]	
Date: 4/7/05	Time: 1320

Accura Analytical Laboratory, Inc.
6017 Financial Drive, Norcross, GA 30071

SEMI-VOLATILE GC/MS RUNLOG FOR INSTRUMENT HP-MSB

Date: 3/7/05
ICAL Date: 3/7/05
ICAL Method: SIM0307.m
ACQ. Method: SIM0307.m
DFTPP Std. ID#: 505018
CCV Std. ID#: 504126
ISTD Std. ID#: 504122

DDT % Breakdown: 1.42%
Tailing (PCP/Benzidine): 1.54/2.00

MS Conditions
EMV: 2494
Tune File: DFTPP.u
Solvent Delay: 4.80 min

	CCV IS RT	CCV IS AREAS
#1	5.68	6093
#2	7.64	11527
#3	10.61	4284
#4	13.13	4249
#5	17.71	2181
#6	20.01	1299

File Name	Lab Sample ID	Client Sample ID	Matrix	DF	ALS#	Inj. Time	Comments
B 47765	STUNB44	–	N/A	N/A	1	14:54	
B 47766	SSTD010 B49	–	↓	↓	2	15:06	
B 47767	SSTD020 B49	–	↓	↓	3	15:37	
B 47768	SSTD050 B49	–	↓	↓	4	16:09	
B 47769	SSTD080 B49	–	↓	↓	5	16:40	
B 47770	SSTD120 B49	–	↓	↓	6	17:11	
B 47771	SSTD160 B49	–	↓	↓	7	17:42	
B 47772	SSTD050 B50	–	↓	↓	8	18:13	
B 47773	SSTD050 B50	–	↓	↓	8	18:44	
B 47774	BLANK	–	↓	↓	100	19:16	
B 47775	BLANK	–	↓	↓	100	19:47	
B 47776	25319 BLK	–	S	1X	9	20:18	
B 47777	↓ BKS	–	↓	↓	10	20:49	
B 47778	↓ BSD	–	↓	↓	11	21:20	
B 47779	7678-030	SB13-2	↓	↓	12	21:51	R/X of B47759 cmp↑ R/R2X see B47798
B 47780	25310 BLK	–	W	↓	13	22:22	
B 47781	↓ BKS	–	↓	↓	14	22:53	
B 47782	7739-001	OLFB-1140-MW02-10	↓	↓	15	23:24	
B 47783	↓ MS	↓ MS	↓	↓	16	23:56	
B 47784	↓ MSD	↓ MSD	↓	↓	17	00:27	
B 47785	7735-001	OLFB-1140-MW3-10	↓	↓	18	00:58	cmp↑ R/R 2X + 10X see B47799 + 800
B 47786	↓ -002	↓ -DUO1- ↓	↓	↓	19	01:29	↓ see B47801 + 2
B 47787	7738-001	BRN-1120-MW14R-06	↓	↓	20	02:00	cmp↑ R/R 5X, 50X, 200X see B47803-5
B 47788	↓ -002	↓ -MW35- ↓	↓	↓	21	02:31	

Analyst/Date: CTP 3/8/05 Reviewer/Date: ML 3/8/05 Analytical Sequence#: S-25717

Logbook ID#: SVOC-163 (Ical) W-25719 Page#:19

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Accura Analytical Laboratory, Inc.
6017 Financial Drive, Norcross, GA 30071

SEMI-VOLATILE GC/MS RUNLOG FOR INSTRUMENT HP-MSB

Date: 3/8/05
ICAL Date: 3/7/05
ICAL Method: SIM0307.m
ACQ. Method: SIM0307.m
DFTPP Std. ID#: 505018
CCV Std. ID#: 504126
ISTD Std. ID#: 504122

DDT % Breakdown: 1.18%
Tailing (PCP/Benzidine): 1.90/2.62

MS Conditions
EMV: 2494
Tune File: DFTPP.U
Solvent Delay: 4.80 min

	CCV IS RT	CCV IS AREAS
#1	5.68	5898
#2	7.69	11143
#3	10.60	4338
#4	13.13	4633
#5	17.71	2488
#6	20.61	1519

File Name	Lab Sample ID	Client Sample ID	Matrix	DF	ALS#	Inj. Time	Comments
B 47789	STUNB45	—	N/A	N/A	1	12:37	
B 47790	SSTD050B51	—	↓	↓	2	12:49	504126
B 47791	7739-002	OLFB-1140-MW08-10	W	1X	3	13:19	
B 47792	↓ -003	↓ -MW09- ↓	↓	↓	4	13:50	
B 47793	↓ -004	↓ -MW13- ↓	↓	↓	5	14:21	
B 47794	7738-003	BRN-1120-MW2-06	↓	↓	6	14:52	CMPT R/R 5X SEE B47806
B 47795	↓ -004	↓ -MW4- ↓	↓	↓	7	15:23	
B 47796	↓ -005	↓ -MW5R- ↓	↓	↓	8	15:55	CMPT R/R 2X SEE B47807
B 47797	↓ -006	↓ -MW07- ↓	↓	↓	9	16:25	
B 47798	7678-030	SB13-2	S	2X	10	16:57	dil. of B47779
B 47799	7735-001 DIL1	OLFB-1140-MW3-10 DIL1	W	2X	11	17:28	↓ B47785
B 47800	↓ DIL2	↓ DIL2	↓	10X	12	17:59	↓
B 47801	7735-002 DIL1	OLFB-1140-DUC1-10 DIL1	↓	2X	13	18:30	↓ B47786
B 47802	↓ DIL2	↓ DIL2	↓	10X	14	19:01	↓
B 47803	7738-001 DIL1	BRN-1120-MW4R-06 DIL1	↓	5X	15	19:32	↓ B47787
B 47804	↓ DIL2	↓ DIL2	↓	10X	16	20:03	↓
B 47805	↓ DIL3	↓ DIL3	↓	50X	17	20:34	↓
B 47806	7738-003 DIL	BRN-1120-MW2-06 DIL	↓	5X	18	21:05	↓ B47794
B 47807	7738-005 DIL	↓ -MW5R- ↓	↓	2X	19	21:36	↓ B47795
B							
B							
B							
B							
B							

Analyst/Date: CTP 3/9/05 Reviewer/Date: _____ Analytical Sequence#: S-25724

Logbook ID#: SVOC-163 W-25725 Page#:20

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ACCURA ANALYTICAL LABORATORIES

SIMS

EXTRACTION LOG

ANALYSIS: DRO / (PAH) / FL-PRO **DATE/TIME**: 3/4/05 1150

MATRIX: WATER **BATCH I.D. #** 25310 **ANALYST**: EMP

EXT. METHOD: 3510 / (3520) **INSTRUMENT**: GC/MS/FID

AAL I.D.	Vi (ml)	pH	SURR (ml)	SPIKE (ml)	Vf (ml)	COMMENTS
25310 BLK	1000	<2	1.0		1.0	
" BKS	"		"	1.0	"	
7739-001 MS	500		0.5	0.5	0.5	
" MSD	"		"	"	"	
7739-001	1000		1.0		1.0	
-002						
-003						
-004						
7738-001						
-002						
-003						
-004						
-005						
-006						
7735-001						
-002						

EMP 3/5/05

START TIME: 1545 **STOP TIME**: 810 **SOLVENT ID #**: EX05023

SURROGATE I.D. : PAH05E025 **CONC.** : 1 ppm **INITAL** : EMP

SURROGATE I.D. : — **CONC.** : — **INITAL** : —

SPIKE I.D. : PAH05E029 **CONC.** : 1 ppm **INITIAL** : EMP

SPIKE I.D. : — **CONC.** : — **INITIAL** : —

SPIKE WITNESS: [signature] **RapidVap TEMP.**: 35°C

EXTRACT STORAGE: REFRIG.# 5, BOX # : B-803 **REVIEWED BY**: JP

RECEIVED FOR ANALYSIS BY (DATE/TIME): CTP 3/7/05 9:05

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47787.D Vial: 20
Acq On : 03/08/05 02:00 Operator: CTP/BP
Sample : 7738-001 BRN-1120-MW14R-06 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 9:33 2005 Quant Results File: SIM0307.RES

CTP 3/8/05

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.70	152	4632	0.40 ng	0.01
2) Naphthalene-d8	7.65	136	10566	0.40 ng	0.00
7) Acenaphthene-d10	10.62	164	4789m	0.40 ng	0.00
12) Phenanthrene-d10	13.14	188	5379	0.40 ng	0.00
17) Chrysene-d12	17.71	240	3331	0.40 ng	0.00
22) Perylene-d12	20.01	264	2044	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.58	82	8156	0.59 ng/ul	-0.03
Spiked Amount 1.000			Recovery	= 59.00%	
8) 2-Fluorobiphenyl	9.48	172	18224	0.55 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 55.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	15.91	244	9347	0.96 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 96.00%	

Target Compounds						Qvalue
4) Naphthalene	7.68	128	2068901	52.06 ng		96
5) 2-Methylnaphthalene	8.83	141	2099626	166.89 ng	#	86
6) 1-Methylnaphthalene	9.01	142	1821674	91.09 ng		98
10) Acenaphthene	10.67	153	36039	1.71 ng		
11) Fluorene	11.53	166	70461	3.60 ng		
13) Phenanthrene	13.17	178	39757	2.54 ng	#	100
14) Anthracene	13.25	178	2494	0.13 ng	#	77

Cmpds. Above Cal. Range R/R 5X, 50X, 200X

(#) = qualifier out of range (m) = manual integration

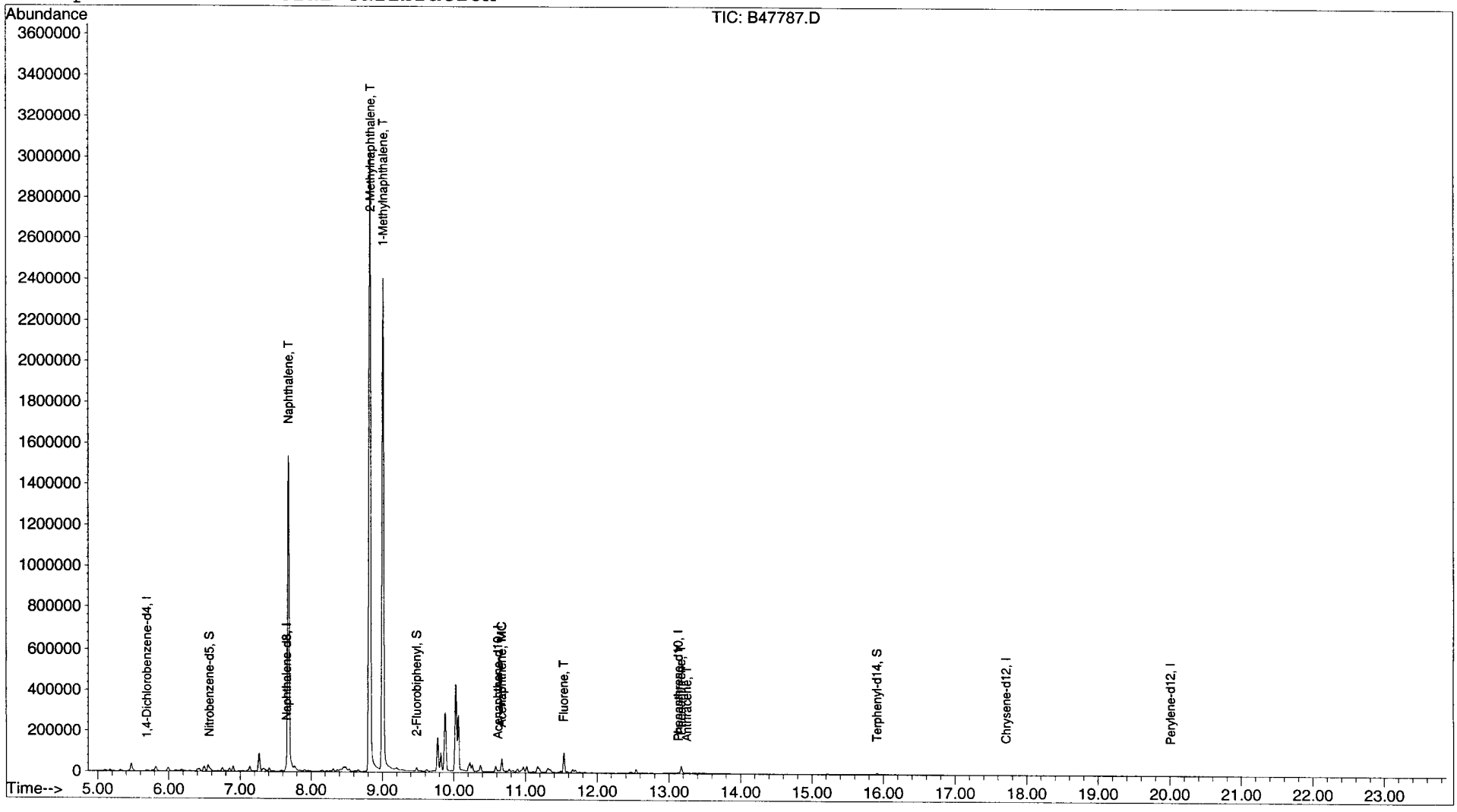
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47787.D
Acq On : 03/08/05 02:00
Sample : 7738-001 BRN-1120-MW14R-06 25310
Misc : SIM W 03/04/05
MS Integration Params: rteint.p
Quant Time: Mar 8 9:33 2005

Vial: 20
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030805\B47803.D Vial: 15
Acq On : 03/08/05 19:32 Operator: CTP/BP CTP 3/9/0
Sample : 7738-001DIL1 BRN-1120-MW14R-06DIL1 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 DF=5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 9 9:30 2005 Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.67	152	4279	0.40 ng	-0.01
2) Naphthalene-d8	7.62	136	10192	0.40 ng	-0.02
7) Acenaphthene-d10	10.59	164	4337	0.40 ng	-0.02
12) Phenanthrene-d10	13.11	188	4257	0.40 ng	-0.02
17) Chrysene-d12	17.70	240	2570	0.40 ng	-0.01
22) Perylene-d12	20.00	264	1583	0.40 ng	-0.01
System Monitoring Compounds					
3) Nitrobenzene-d5	6.60	82	1573m	0.12 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 12.00%	
8) 2-Fluorobiphenyl	9.45	172	3585	0.12 ng/ul	-0.02
Spiked Amount 1.000			Recovery	= 12.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	15.90	244	1471	0.19 ng/ul	-0.02
Spiked Amount 1.000			Recovery	= 19.00%	

Target Compounds						Qvalue
4) Naphthalene	7.65	128	452762	11.81 ng ↑		99
5) 2-Methylnaphthalene	8.78	141	544355	44.86 ng ↑	#	96
6) 1-Methylnaphthalene	8.97	142	435208	22.56 ng ↑		98
10) Acenaphthene	10.64	153	6470	0.34 ng		85
11) Fluorene	11.51	166	12029	0.68 ng		87
13) Phenanthrene	13.15	178	6539	0.53 ng	#	99

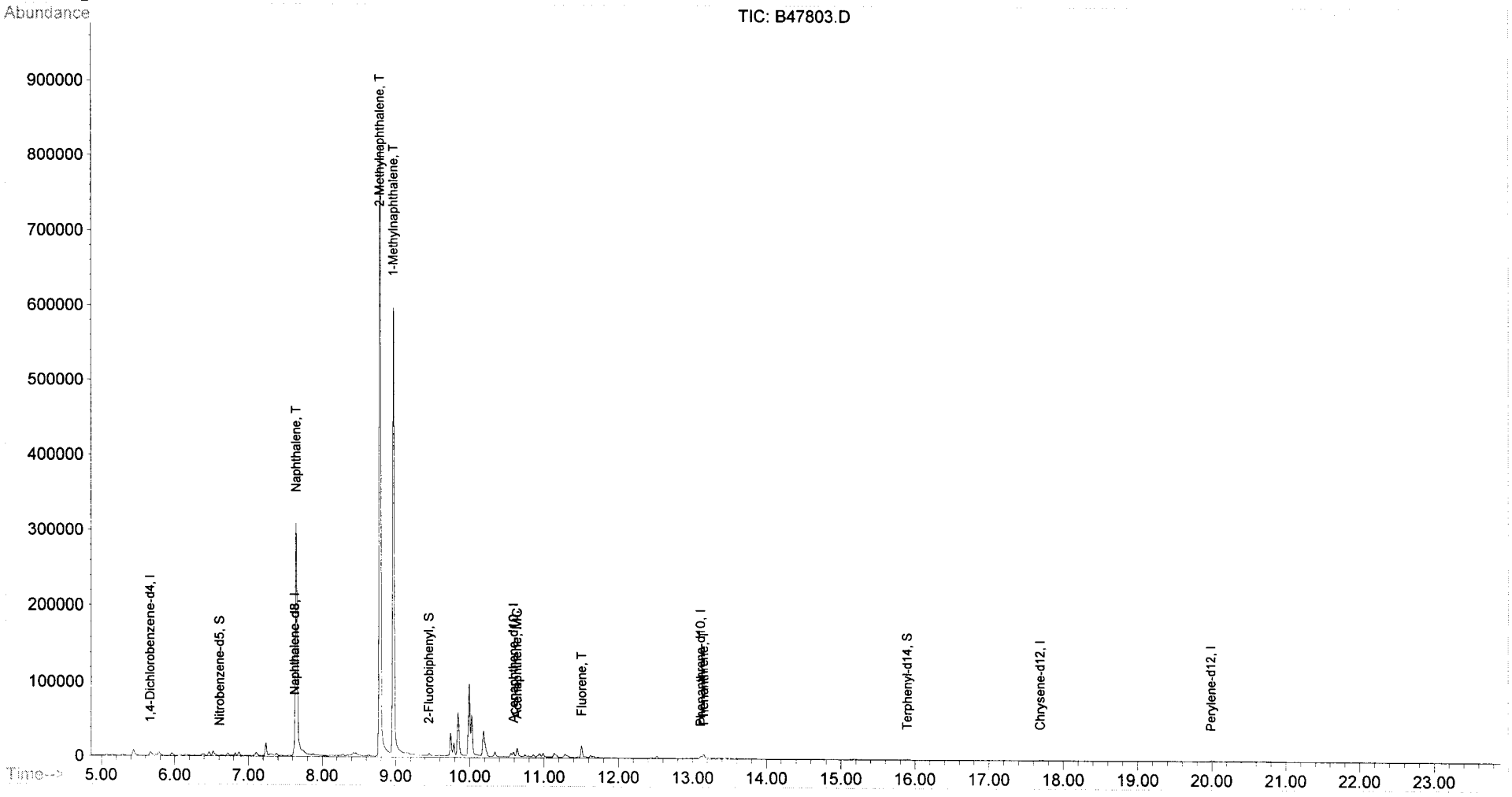
Cmp ↑ R/R 50X + 200X

(#) = qualifier out of range (m) = manual integration
B47803.D SIM0307.M Wed Mar 09 09:32:38 2005

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030805\B47803.D Vial: 15
Acq On : 03/08/05 19:32 Operator: CTP/BP
Sample : 7738-001DIL1 BRN-1120-MW14R-06DIL1 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 DF=5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 9 9:30 2005 Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030805\B47804.D Vial: 16
Acq On : 03/08/05 20:03 Operator: CTP/BP CTP
Sample : 7738-001DIL2 BRN-1120-MW14R-06DIL2 25310 Inst : HP-MSB 3/9/05
Misc : SIM W 03/04/05 DF=50 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 9 9:27 2005 Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	4521	0.40	ng	0.00
2) Naphthalene-d8	7.63	136	9998	0.40	ng	-0.01
7) Acenaphthene-d10	10.59	164	3885	0.40	ng	-0.02
12) Phenanthrene-d10	13.13	188	3257	0.40	ng	0.00
17) Chrysene-d12	17.73	240	1771	0.40	ng	0.02
22) Perylene-d12	20.02	264	1161	0.40	ng	0.00

System Monitoring Compounds					
3) Nitrobenzene-d5	0.00	82	0d	0.00	ng/ul
Spiked Amount 1.000			Recovery	=	0.00%
8) 2-Fluorobiphenyl	0.00	172	0d	0.00	ng/ul
Spiked Amount 1.000			Recovery	=	0.00%
15) o-Terphenyl	0.00	230	0d	0.00	ng
Spiked Amount 1.000			Recovery	=	0.00%
18) Terphenyl-d14	0.00	244	0d	0.00	ng/ul
Spiked Amount 1.000			Recovery	=	0.00%

Target Compounds						Qvalue
4) Naphthalene	7.65	128	46615	1.24	ng	98
5) 2-Methylnaphthalene	8.79	141	47654	4.00	ng ↑ #	87
6) 1-Methylnaphthalene	8.97	142	50029	2.64	ng ↑	99
11) Fluorene	11.52	166	881m	0.06	ng	

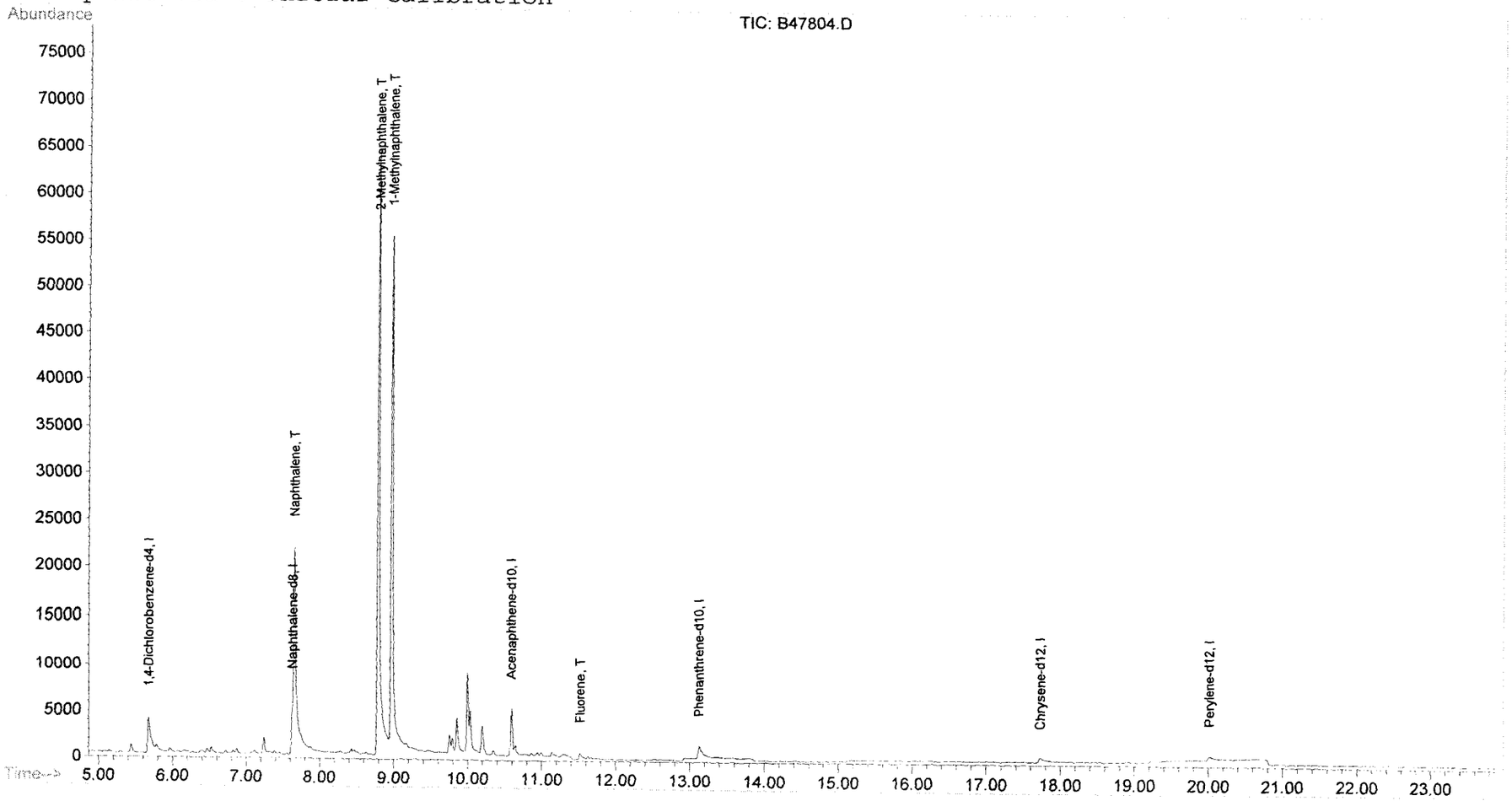
Comp ↑ R/R 200X

(#) = qualifier out of range (m) = manual integration
B47804.D SIM0307.M Wed Mar 09 09:32:42 2005

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030805\B47804.D Vial: 16
Acq On : 03/08/05 20:03 Operator: CTP/BP
Sample : 7738-001DIL2 BRN-1120-MW14R-06DIL2 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 DF=50 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 9 9:27 2005 Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030805\B47805.D Vial: 17
Acq On : 03/08/05 20:34 Operator: CTP/BP
Sample : 7738-001DIL3 BRN-1120-MW14R-06DIL3 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 DF=200 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 16:48 2005 Quant Results File: SIM0307.RES

CTP 3/15/05

Quant Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

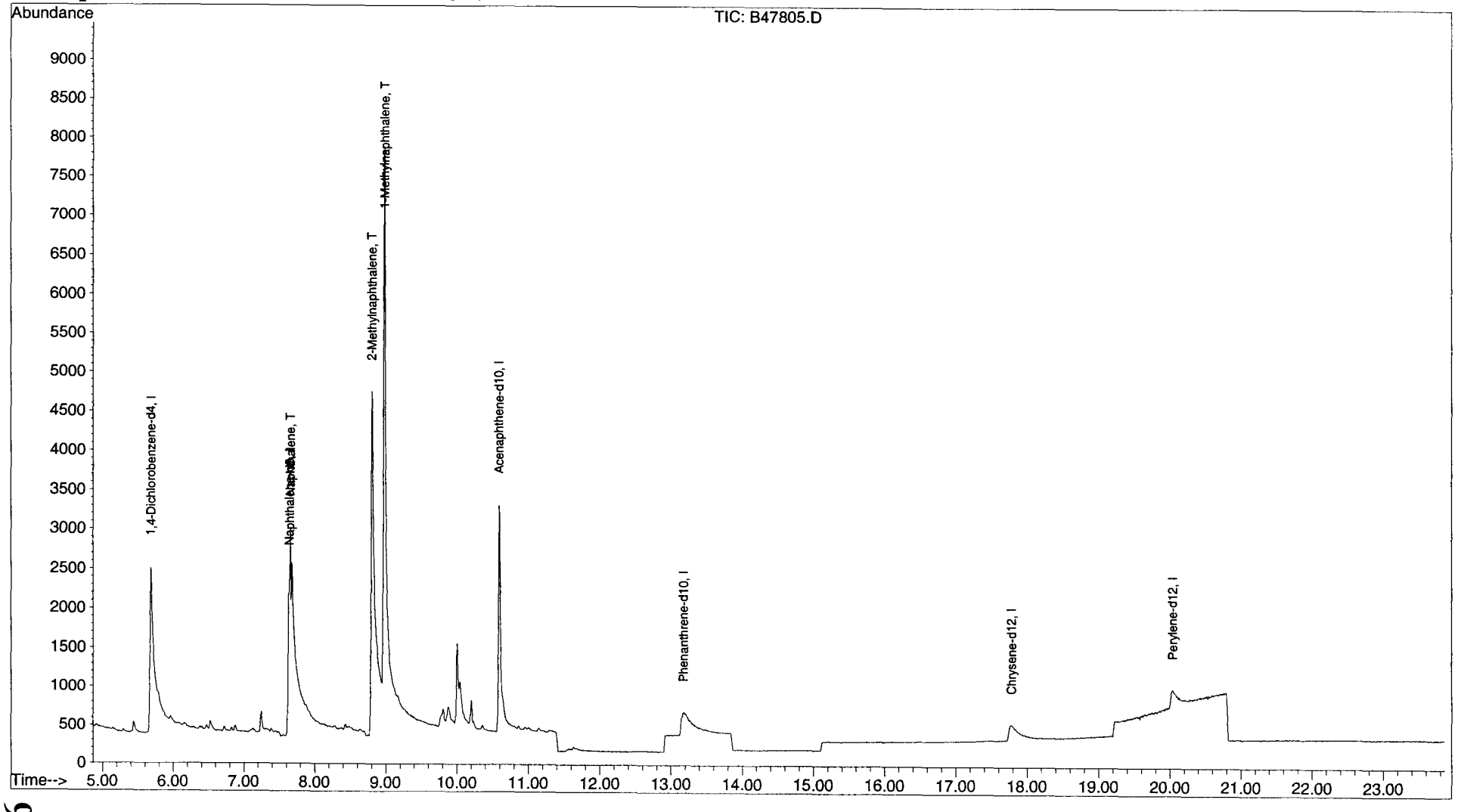
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.69	152	3292	0.40	ng	0.00
2) Naphthalene-d8	7.64	136	7652m	0.40	ng	0.00
7) Acenaphthene-d10	10.59	164	2763	0.40	ng	-0.02
12) Phenanthrene-d10	13.17	188	2593m	0.40	ng	0.04
17) Chrysene-d12	17.78	240	1488m	0.40	ng	0.06
22) Perylene-d12	20.04	264	761	0.40	ng	0.03
System Monitoring Compounds						
3) Nitrobenzene-d5	0.00	82	0d	0.00	ng/ul	
Spiked Amount 1.000			Recovery	=	0.00%	
8) 2-Fluorobiphenyl	0.00	172	0d	0.00	ng/ul	
Spiked Amount 1.000			Recovery	=	0.00%	
15) o-Terphenyl	0.00	230	0	0.00	ng	
Spiked Amount 1.000			Recovery	=	0.00%	
18) Terphenyl-d14	0.00	244	0	0.00	ng/ul	
Spiked Amount 1.000			Recovery	=	0.00%	
Target Compounds						Qvalue
4) Naphthalene	7.66	128	9102m	0.32	ng	
5) 2-Methylnaphthalene	8.80	141	6387m	0.70	ng	
6) 1-Methylnaphthalene	8.98	142	8957m	0.62	ng	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030805\B47805.D Vial: 17
Acq On : 03/08/05 20:34 Operator: CTP/BP
Sample : 7738-001DIL3 BRN-1120-MW14R-06DIL3 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 DF=200 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 16:48 2005 Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47788.D Vial: 21
Acq On : 03/08/05 02:31 Operator: CTP/BP
Sample : 7738-002 BRN-1120-MW35-06 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 9:35 2005 Quant Results File: SIM0307.RES

CTP 3/8/05

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.70	152	4525	0.40 ng	0.01
2) Naphthalene-d8	7.65	136	10361	0.40 ng	0.01
7) Acenaphthene-d10	10.62	164	4051	0.40 ng	0.02
12) Phenanthrene-d10	13.15	188	4206	0.40 ng	0.02
17) Chrysene-d12	17.73	240	2643	0.40 ng	0.01
22) Perylene-d12	20.03	264	1652	0.40 ng	0.01
System Monitoring Compounds					
3) Nitrobenzene-d5	6.60	82	8722	0.64 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 64.00%	
8) 2-Fluorobiphenyl	9.49	172	19797	0.71 ng/ul	0.01
Spiked Amount 1.000			Recovery	= 71.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	15.92	244	8281	1.07 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 107.00%	

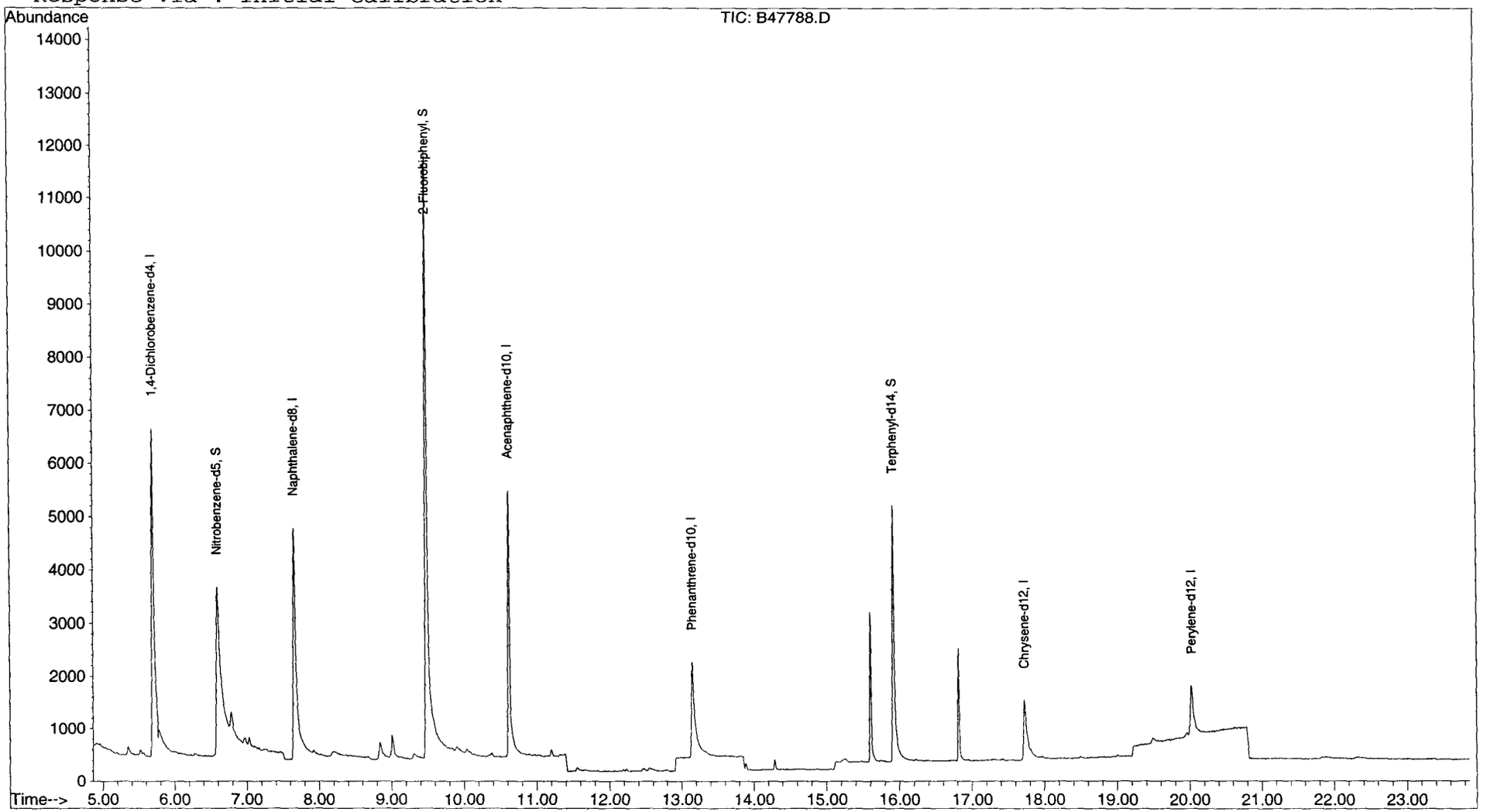
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47788.D Vial: 21
Acq On : 03/08/05 02:31 Operator: CTP/BP
Sample : 7738-002 BRN-1120-MW35-06 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 9:35 2005 Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030805\B47794.D
Acq On : 03/08/05 14:52
Sample : 7738-003 BRN1120-MW2-06 25310
Misc : SIM W 03/04/05
MS Integration Params: rteint.p
Quant Time: Mar 8 17:00 2005

Vial: 6
Operator: CTP/BP CTP
Inst : HP-MSB
Multiplr: 1.00 3/9/05

Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	3875	0.40 ng	0.00
2) Naphthalene-d8	7.64	136	7950	0.40 ng	0.00
7) Acenaphthene-d10	10.60	164	2760	0.40 ng	0.00
12) Phenanthrene-d10	13.13	188	3145	0.40 ng	0.00
17) Chrysene-d12	17.71	240	2146	0.40 ng	0.00
22) Perylene-d12	20.00	264	1334	0.40 ng	-0.01
System Monitoring Compounds					
3) Nitrobenzene-d5	6.58	82	7242	0.69 ng/ul	-0.02
Spiked Amount 1.000			Recovery	= 69.00%	
8) 2-Fluorobiphenyl	9.46	172	14061	0.74 ng/ul	-0.01
Spiked Amount 1.000			Recovery	= 74.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	15.90	244	3646	0.58 ng/ul	-0.02
Spiked Amount 1.000			Recovery	= 58.00%	
Target Compounds					Qvalue
4) Naphthalene	7.66	128	36190	1.21 ng	98
5) 2-Methylnaphthalene	8.80	141	36716	3.88 ng ↑ #	95
6) 1-Methylnaphthalene	8.98	142	38662	2.57 ng ↑	97

Cmpds. Above Cal. Range R/R 5X

(#) = qualifier out of range (m) = manual integration

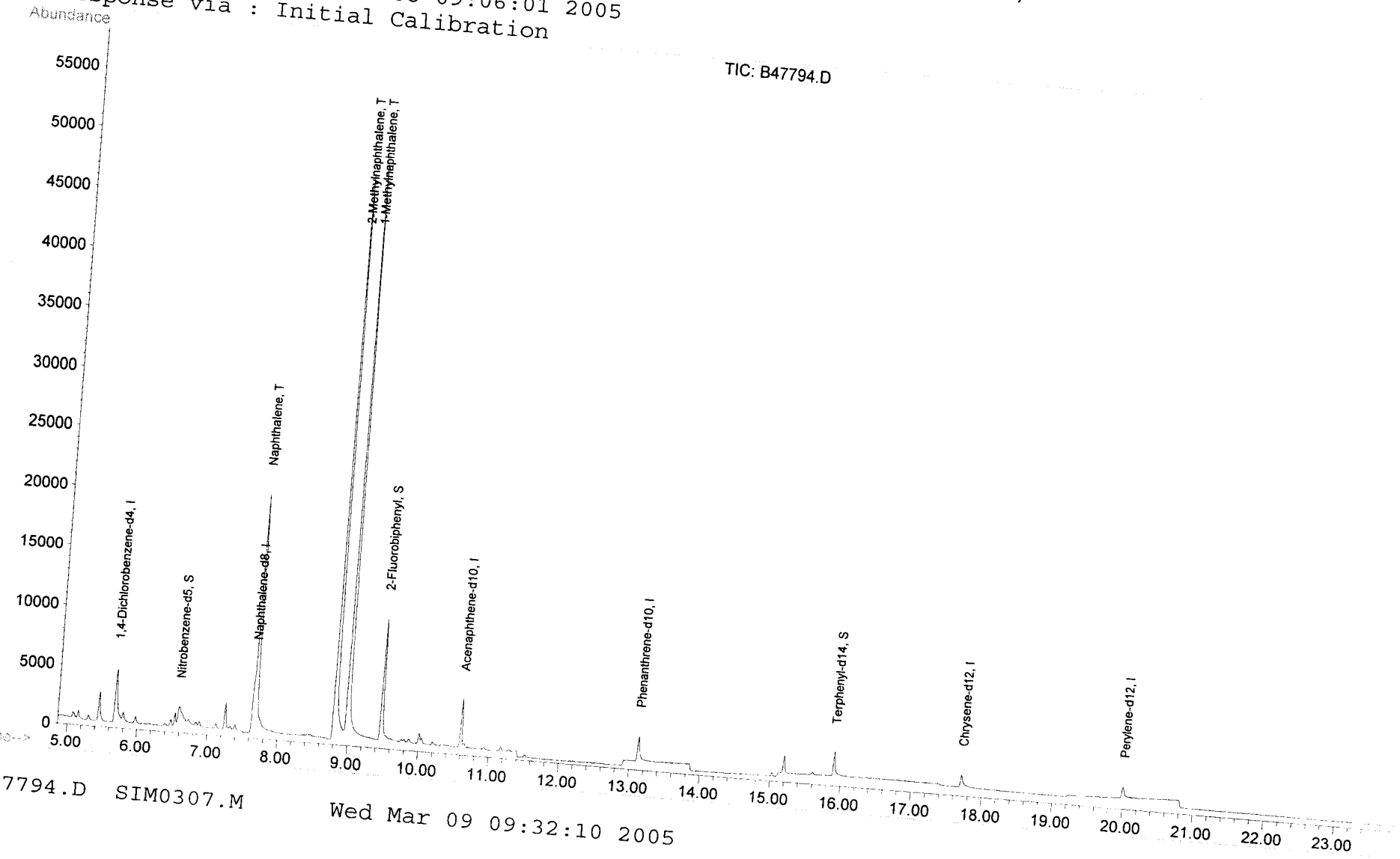
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030805\B47794.D
Acq On : 03/08/05 14:52
Sample : 7738-003 BRN1120-MW2-06 25310
Misc : SIM W 03/04/05
MS Integration Params: rteint.p
Quant Time: Mar 8 17:00 2005

Vial: 6
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration

Quant Results File: SIM0307.RES



B47794.D SIM0307.M Wed Mar 09 09:32:10 2005

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030805\B47806.D Vial: 18
Acq On : 03/08/05 21:05 Operator: CTP/BP CTP 3/9/05
Sample : 7738-003DIL BRN1120-MW2-06DIL 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 DF=5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 9 9:14 2005 Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

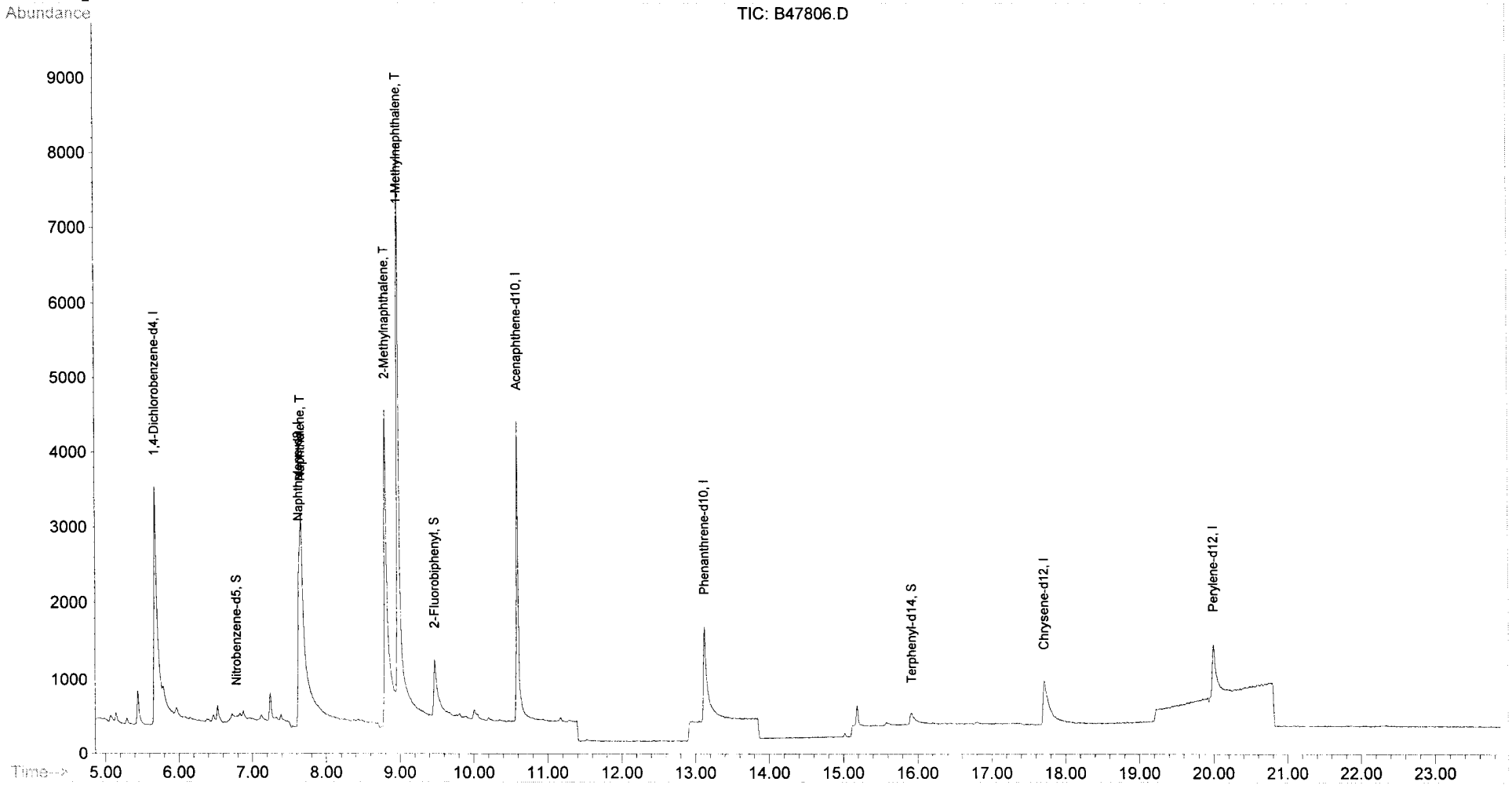
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	3844	0.40 ng	0.00
2) Naphthalene-d8	7.64	136	7163	0.40 ng	0.00
7) Acenaphthene-d10	10.59	164	3158	0.40 ng	-0.02
12) Phenanthrene-d10	13.12	188	3198	0.40 ng	0.00
17) Chrysene-d12	17.71	240	2071	0.40 ng	0.00
22) Perylene-d12	20.00	264	1470	0.40 ng	-0.01
System Monitoring Compounds					
3) Nitrobenzene-d5	6.79	82	1180m	0.13 ng/ul	0.18
Spiked Amount 1.000			Recovery	= 13.00%	
8) 2-Fluorobiphenyl	9.47	172	2459	0.11 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 11.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	15.92	244	585	0.10 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 10.00%	
Target Compounds					Qvalue
4) Naphthalene	7.67	128	6652	0.25 ng	92
5) 2-Methylnaphthalene	8.80	141	5331m	0.63 ng	
6) 1-Methylnaphthalene	8.98	142	8315	0.61 ng	97

#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030805\B47806.D Vial: 18
Acq On : 03/08/05 21:05 Operator: CTP/BP
Sample : 7738-003DIL BRN1120-MW2-06DIL 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 DF=5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 9 9:14 2005 Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030805\B47795.D
Acq On : 03/08/05 15:23
Sample : 7738-004 BRN1120-MW4-06 25310
Misc : SIM W 03/04/05
MS Integration Params: rteint.p
Quant Time: Mar 8 17:00 2005

Vial: 7
Operator: CTP/BP CTP 3/9/05
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	4762	0.40	ng	0.00
2) Naphthalene-d8	7.64	136	9476	0.40	ng	0.00
7) Acenaphthene-d10	10.60	164	3476	0.40	ng	0.00
12) Phenanthrene-d10	13.13	188	3621	0.40	ng	0.00
17) Chrysene-d12	17.71	240	2224	0.40	ng	0.00
22) Perylene-d12	20.00	264	1396	0.40	ng	-0.01
System Monitoring Compounds						
3) Nitrobenzene-d5	6.58	82	7100	0.57	ng/ul	-0.03
Spiked Amount 1.000			Recovery	=	57.00%	
8) 2-Fluorobiphenyl	9.47	172	14470	0.60	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	60.00%	
15) o-Terphenyl	0.00	230	0d	0.00	ng	
Spiked Amount 1.000			Recovery	=	0.00%	
18) Terphenyl-d14	15.90	244	4445	0.68	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	68.00%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

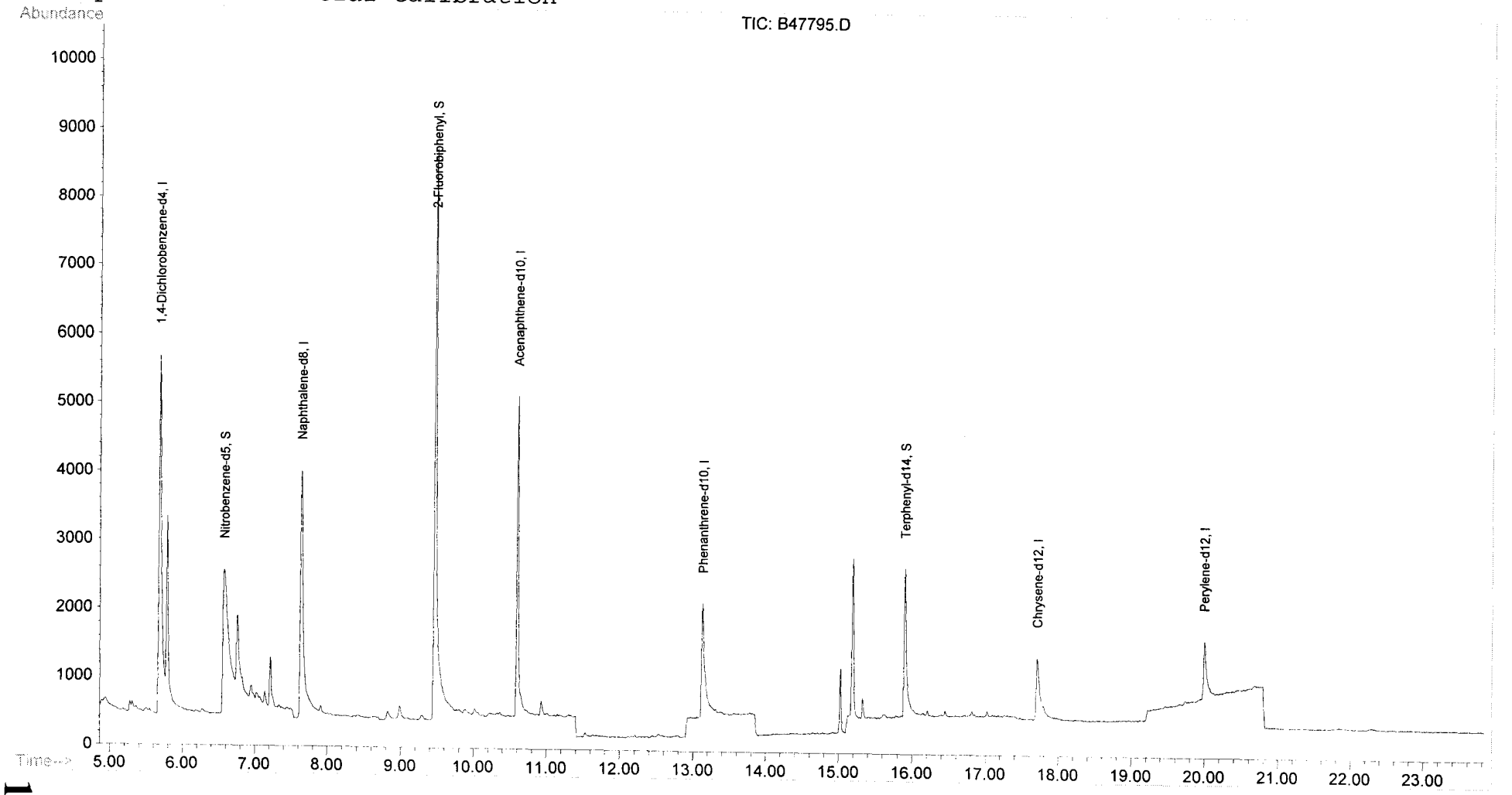
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030805\B47795.D
Acq On : 03/08/05 15:23
Sample : 7738-004 BRN1120-MW4-06 25310
Misc : SIM W 03/04/05
MS Integration Params: rteint.p
Quant Time: Mar 8 17:00 2005

Vial: 7
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030805\B47796.D Vial: 8
Acq On : 03/08/05 15:55 Operator: CTP/BP CTP
Sample : 7738-005 BRN1120-MW5R-06 25310 Inst : HP-MSB 3/9/0
Misc : SIM W 03/04/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 17:01 2005 Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	3638	0.40 ng	0.00
2) Naphthalene-d8	7.64	136	7207	0.40 ng	0.00
7) Acenaphthene-d10	10.60	164	2804	0.40 ng	0.00
12) Phenanthrene-d10	13.12	188	3509	0.40 ng	0.00
17) Chrysene-d12	17.70	240	2389	0.40 ng	-0.01
22) Perylene-d12	19.99	264	1521	0.40 ng	-0.02
System Monitoring Compounds					
3) Nitrobenzene-d5	6.60	82	7089	0.75 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 75.00%	
8) 2-Fluorobiphenyl	9.46	172	14634	0.75 ng/ul	-0.01
Spiked Amount 1.000			Recovery	= 75.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	15.90	244	4122	0.59 ng/ul	-0.02
Spiked Amount 1.000			Recovery	= 59.00%	
Target Compounds					Qvalue
4) Naphthalene	7.66	128	56549	2.09 ng ↑	98
5) 2-Methylnaphthalene	8.80	141	2282m	0.27 ng	
6) 1-Methylnaphthalene	8.98	142	4281	0.31 ng #	83

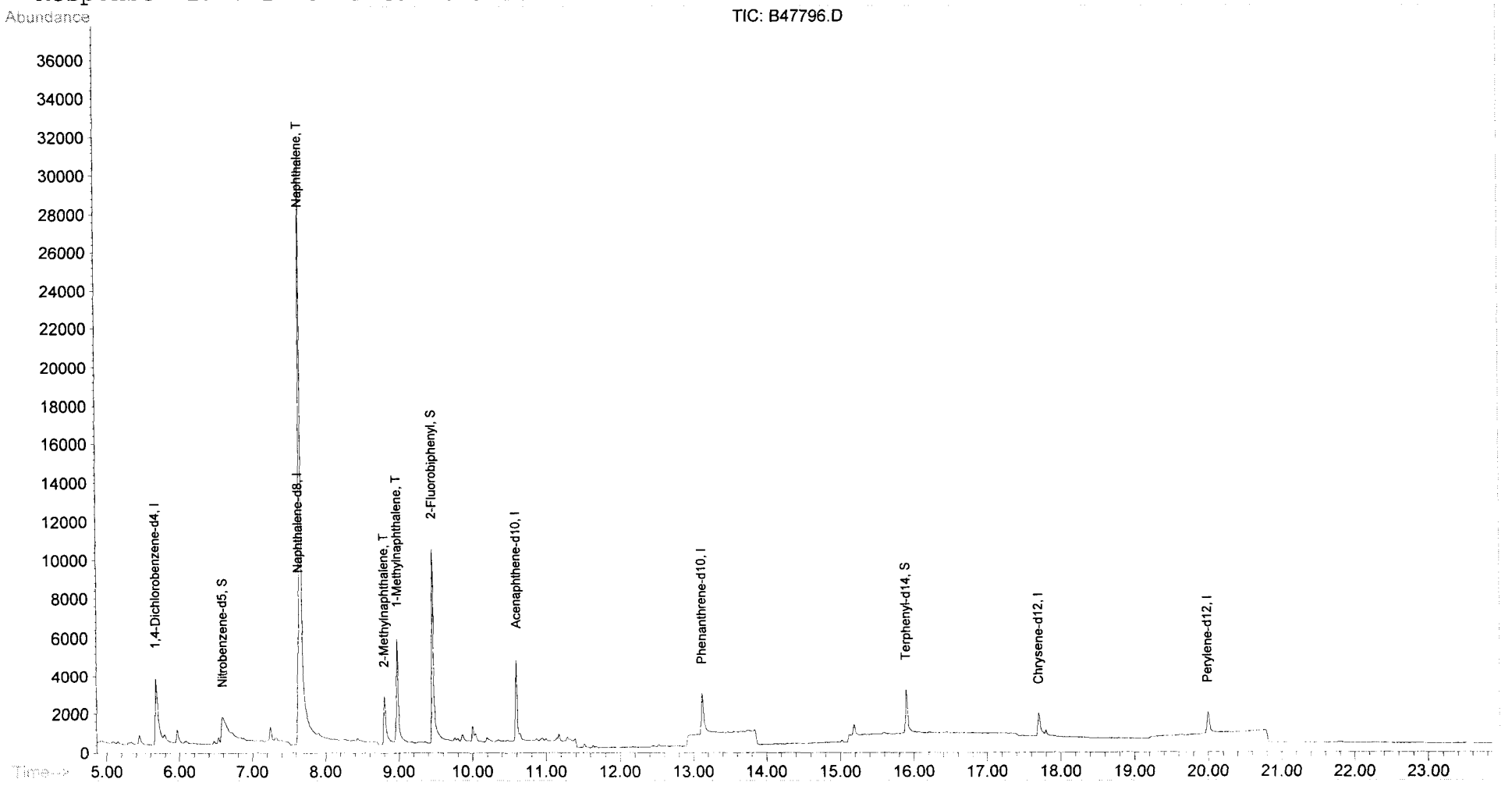
Comp. Above Cal. Range R/R 2X

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030805\B47796.D Vial: 8
Acq On : 03/08/05 15:55 Operator: CTP/BP
Sample : 7738-005 BRN1120-MW5R-06 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 17:01 2005 Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030805\B47807.D Vial: 19
Acq On : 03/08/05 21:36 Operator: CTP/BP CTP 3/9/05
Sample : 7738-005DIL BRN1120-MW5R-06DIL 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 DF=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 9 9:16 2005 Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	3940	0.40	ng	0.00
2) Naphthalene-d8	7.63	136	7622	0.40	ng	-0.01
7) Acenaphthene-d10	10.59	164	3012	0.40	ng	-0.02
12) Phenanthrene-d10	13.12	188	3209	0.40	ng	-0.01
17) Chrysene-d12	17.71	240	1950	0.40	ng	0.00
22) Perylene-d12	19.99	264	1256	0.40	ng	-0.02
System Monitoring Compounds						
3) Nitrobenzene-d5	6.68	82	3229m	0.32	ng/ul	0.08
Spiked Amount 1.000			Recovery	=	32.00%	
8) 2-Fluorobiphenyl	9.46	172	6787	0.33	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	33.00%	
15) o-Terphenyl	0.00	230	0d	0.00	ng	
Spiked Amount 1.000			Recovery	=	0.00%	
18) Terphenyl-d14	15.90	244	1652	0.29	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	29.00%	

Target Compounds							Qvalue
4) Naphthalene	7.66	128	27977	0.98	ng		96
5) 2-Methylnaphthalene	8.81	141	1090m	0.12	ng		
6) 1-Methylnaphthalene	8.98	142	2243	0.16	ng	#	87

(#) = qualifier out of range (m) = manual integration

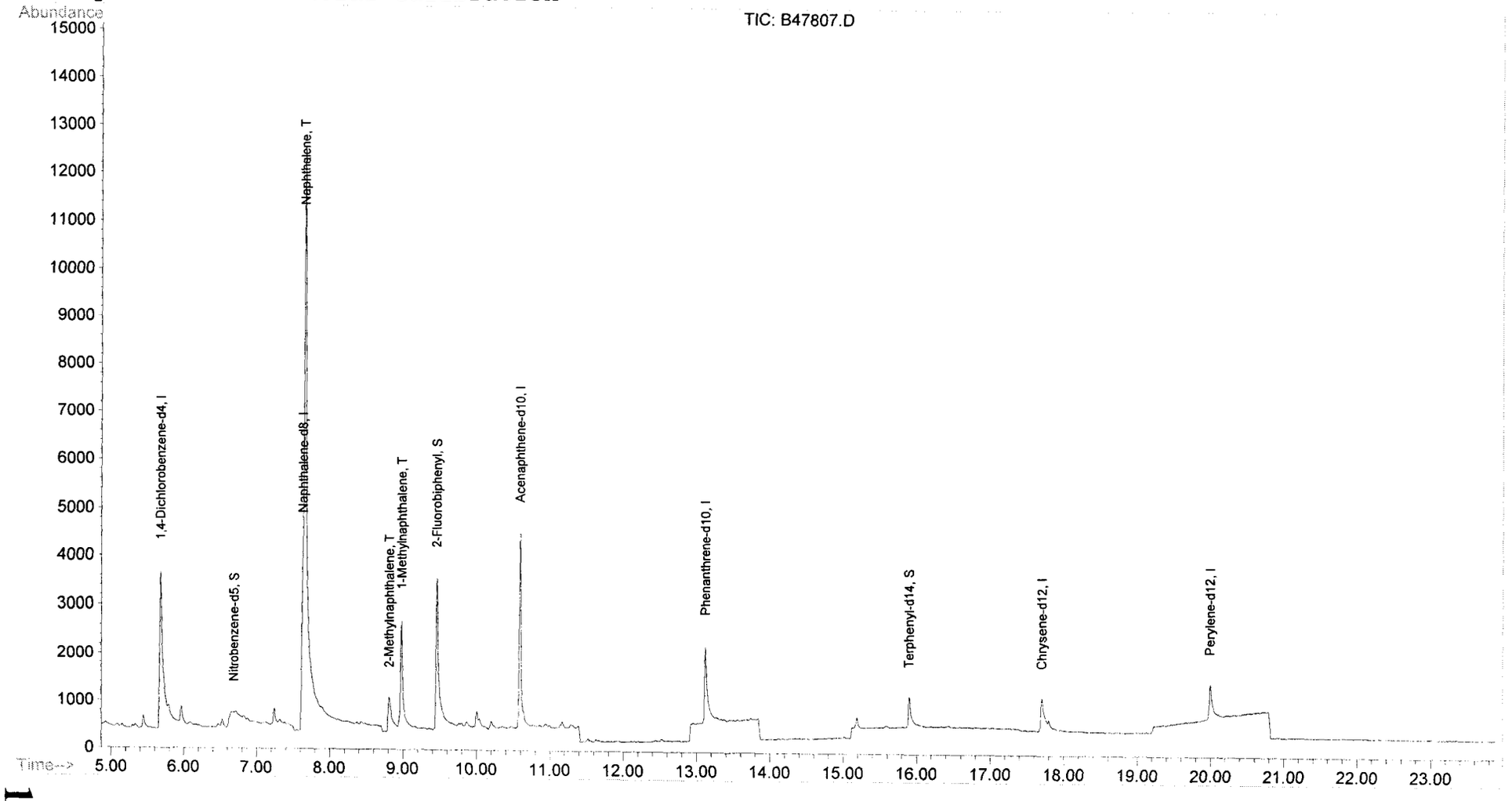
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030805\B47807.D
Acq On : 03/08/05 21:36
Sample : 7738-005DIL BRN1120-MW5R-06DIL 25310
Misc : SIM W 03/04/05 DF=2
MS Integration Params: rteint.p
Quant Time: Mar 9 9:16 2005

Vial: 19
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030805\B47797.D Vial: 9
Acq On : 03/08/05 16:25 Operator: CTP/BP CTP 3/9/05
Sample : 7738-006 BRN1120-MW01-06 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 17:01 2005 Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	4344	0.40 ng	0.00
2) Naphthalene-d8	7.64	136	8721	0.40 ng	0.00
7) Acenaphthene-d10	10.60	164	3516	0.40 ng	0.00
12) Phenanthrene-d10	13.13	188	3623	0.40 ng	0.00
17) Chrysene-d12	17.71	240	2255	0.40 ng	0.00
22) Perylene-d12	20.00	264	1462	0.40 ng	-0.01
System Monitoring Compounds					
3) Nitrobenzene-d5	6.59	82	5490	0.48 ng/ul	-0.01
Spiked Amount 1.000			Recovery	= 48.00%	
8) 2-Fluorobiphenyl	9.47	172	15023	0.62 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 62.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	15.90	244	5928	0.90 ng/ul	-0.01
Spiked Amount 1.000			Recovery	= 90.00%	

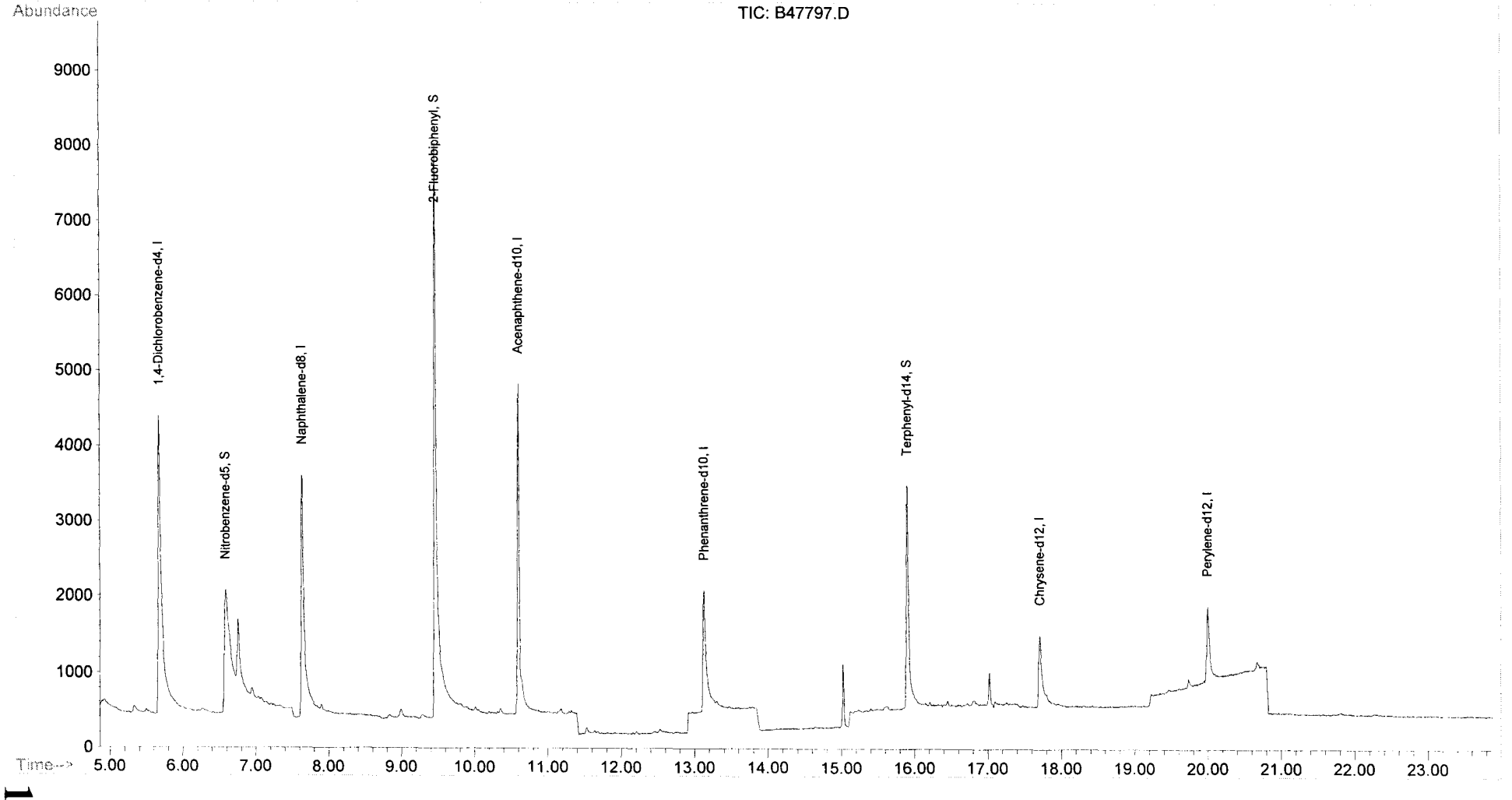
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030805\B47797.D Vial: 9
Acq On : 03/08/05 16:25 Operator: CTP/BP
Sample : 7738-006 BRN1120-MW01-06 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 17:01 2005 Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47780.D Vial: 13
Acq On : 03/07/05 22:22 Operator: CTP/BP CTP 3/8/05
Sample : 25310BLK Inst : HP-MSB
Misc : SIM W 03/04/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 9:25 2005 Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.69	152	5583	0.40 ng	0.00
2) Naphthalene-d8	7.66	136	9974	0.40 ng	0.01
7) Acenaphthene-d10	10.62	164	3982	0.40 ng	0.00
12) Phenanthrene-d10	13.15	188	3321	0.40 ng	0.02
17) Chrysene-d12	17.73	240	2199	0.40 ng	0.02
22) Perylene-d12	20.02	264	1409	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.60	82	8131	0.62 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 62.00%	
8) 2-Fluorobiphenyl	9.48	172	17321	0.63 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 63.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	15.92	244	6778	1.05 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 105.00%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

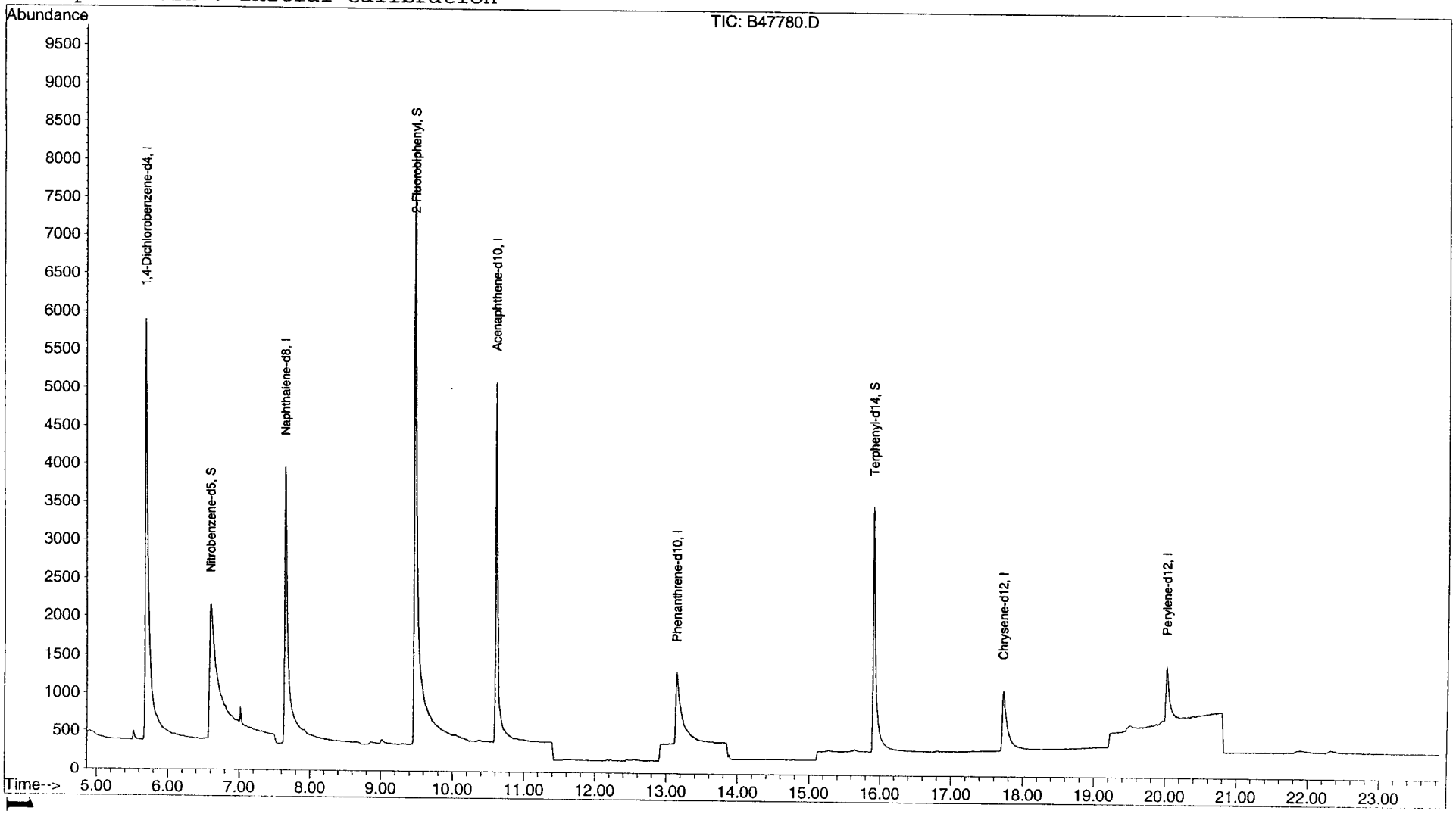
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47780.D
Acq On : 03/07/05 22:22
Sample : 25310BLK
Misc : SIM W 03/04/05
MS Integration Params: rteint.p
Quant Time: Mar 8 9:25 2005

Vial: 13
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47781.D Vial: 14
Acq On : 03/07/05 22:53 Operator: CTP/BP
Sample : 25310BKS Inst : HP-MSB
Misc : SIM W 03/04/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 9:25 2005 Quant Results File: SIM0307.RES

CTP 3/8/05

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.69	152	5196	0.40 ng	0.00
2) Naphthalene-d8	7.65	136	10311	0.40 ng	0.00
7) Acenaphthene-d10	10.62	164	3898	0.40 ng	0.00
12) Phenanthrene-d10	13.14	188	3792	0.40 ng	0.00
17) Chrysene-d12	17.71	240	2465	0.40 ng	0.00
22) Perylene-d12	20.01	264	1607	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.60	82	10404	0.77 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 77.00%	
8) 2-Fluorobiphenyl	9.48	172	21650	0.80 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 80.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	15.92	244	6984	0.96 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 96.00%	

Target Compounds						Qvalue
4) Naphthalene	7.68	128	27519	0.71 ng		100
5) 2-Methylnaphthalene	8.82	141	9157	0.75 ng	#	99
6) 1-Methylnaphthalene	8.99	142	14555	0.75 ng		98
9) Acenaphthylene	10.35	152	19622	0.77 ng	#	100
10) Acenaphthene	10.66	153	12974	0.76 ng		99
11) Fluorene	11.54	166	13051	0.82 ng		97
13) Phenanthrene	13.17	178	10976	1.00 ng	#	99
14) Anthracene	13.26	178	13471	0.97 ng	#	99
16) Fluoranthene	15.23	202	15396	1.08 ng	#	99
19) Pyrene	15.61	202	17238	0.90 ng	#	96
20) Benzo[a]anthracene	17.69	228	8092	1.04 ng	#	99
21) Chrysene	17.75	228	11911	0.93 ng	#	100
23) Benzo[b]fluoranthene	19.43	252	5336	0.93 ng	#	90
24) Benzo[k]fluoranthene	19.47	252	10142	0.95 ng	#	67
25) Benzo[a]pyrene	19.93	252	6903	0.92 ng	#	91
26) Indeno[1,2,3-cd]pyrene	21.78	276	6789m	0.95 ng		
27) Dibenz[a,h]anthracene	21.80	278	3880	0.96 ng		93
28) Benzo[g,h,i]perylene	22.26	276	6459	0.93 ng		99

= qualifier out of range (m) = manual integration

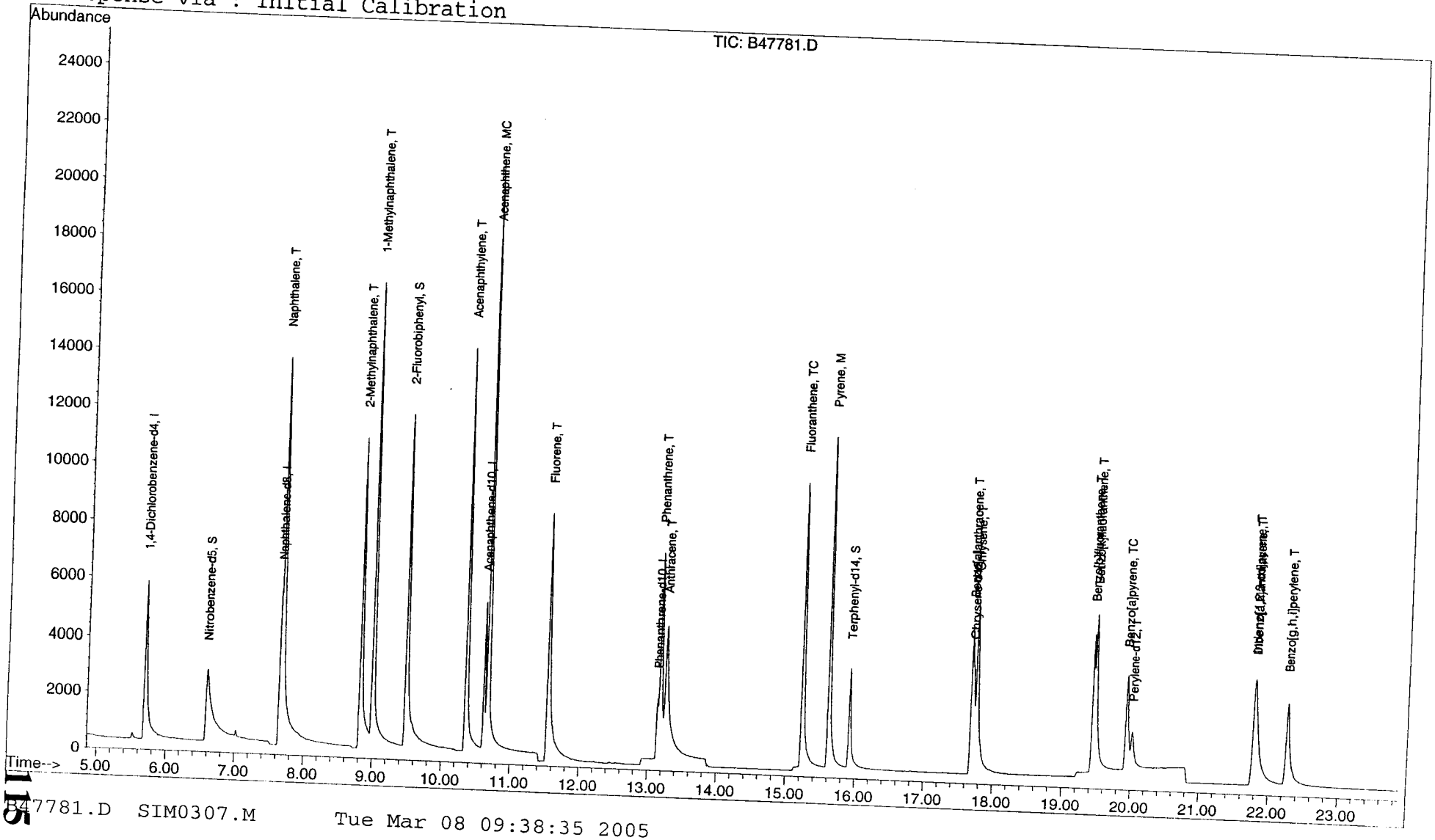
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47781.D
Acq On : 03/07/05 22:53
Sample : 25310BKS
Misc : SIM W 03/04/05
MS Integration Params: rteint.p
Quant Time: Mar 8 9:25 2005

Vial: 14
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



B47781.D SIM0307.M Tue Mar 08 09:38:35 2005

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47783.D Vial: 16
Acq On : 03/07/05 23:56 Operator: CTP/BP CTP 3/8/05
Sample : 7739-001MS OLFB-1140-MW02-10MS 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 9:27 2005 Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.70	152	4873	0.40 ng	0.01
2) Naphthalene-d8	7.65	136	9687	0.40 ng	0.00
7) Acenaphthene-d10	10.62	164	3649	0.40 ng	0.00
12) Phenanthrene-d10	13.14	188	3882	0.40 ng	0.00
17) Chrysene-d12	17.71	240	2539	0.40 ng	0.00
22) Perylene-d12	20.02	264	1591	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.60	82	7597	0.60 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 60.00%	
8) 2-Fluorobiphenyl	9.48	172	15609	0.62 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 62.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	15.92	244	7144	0.96 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 96.00%	

Target Compounds						Qvalue
4) Naphthalene	7.68	128	20448	0.56 ng		98
5) 2-Methylnaphthalene	8.82	141	6803	0.59 ng	#	98
6) 1-Methylnaphthalene	9.00	142	10869	0.59 ng		98
9) Acenaphthylene	10.35	152	15216	0.64 ng	#	99
10) Acenaphthene	10.66	153	10102	0.63 ng		99
11) Fluorene	11.53	166	10930	0.73 ng		98
13) Phenanthrene	13.18	178	11070	0.98 ng	#	100
14) Anthracene	13.26	178	12465	0.88 ng	#	100
16) Fluoranthene	15.23	202	15334	1.05 ng	#	89
19) Pyrene	15.61	202	16797	0.85 ng	#	97
20) Benzo[a]anthracene	17.68	228	8243	1.02 ng	#	100
21) Chrysene	17.75	228	11647	0.88 ng	#	100
23) Benzo[b]fluoranthene	19.43	252	5935	1.04 ng	#	82
24) Benzo[k]fluoranthene	19.47	252	9011	0.86 ng	#	57
25) Benzo[a]pyrene	19.93	252	6567	0.88 ng	#	89
26) Indeno[1,2,3-cd]pyrene	21.78	276	6424m	0.91 ng		
27) Dibenz[a,h]anthracene	21.80	278	3953	0.99 ng		95
28) Benzo[g,h,i]perylene	22.26	276	6091	0.89 ng		98

(#) = qualifier out of range (m) = manual integration

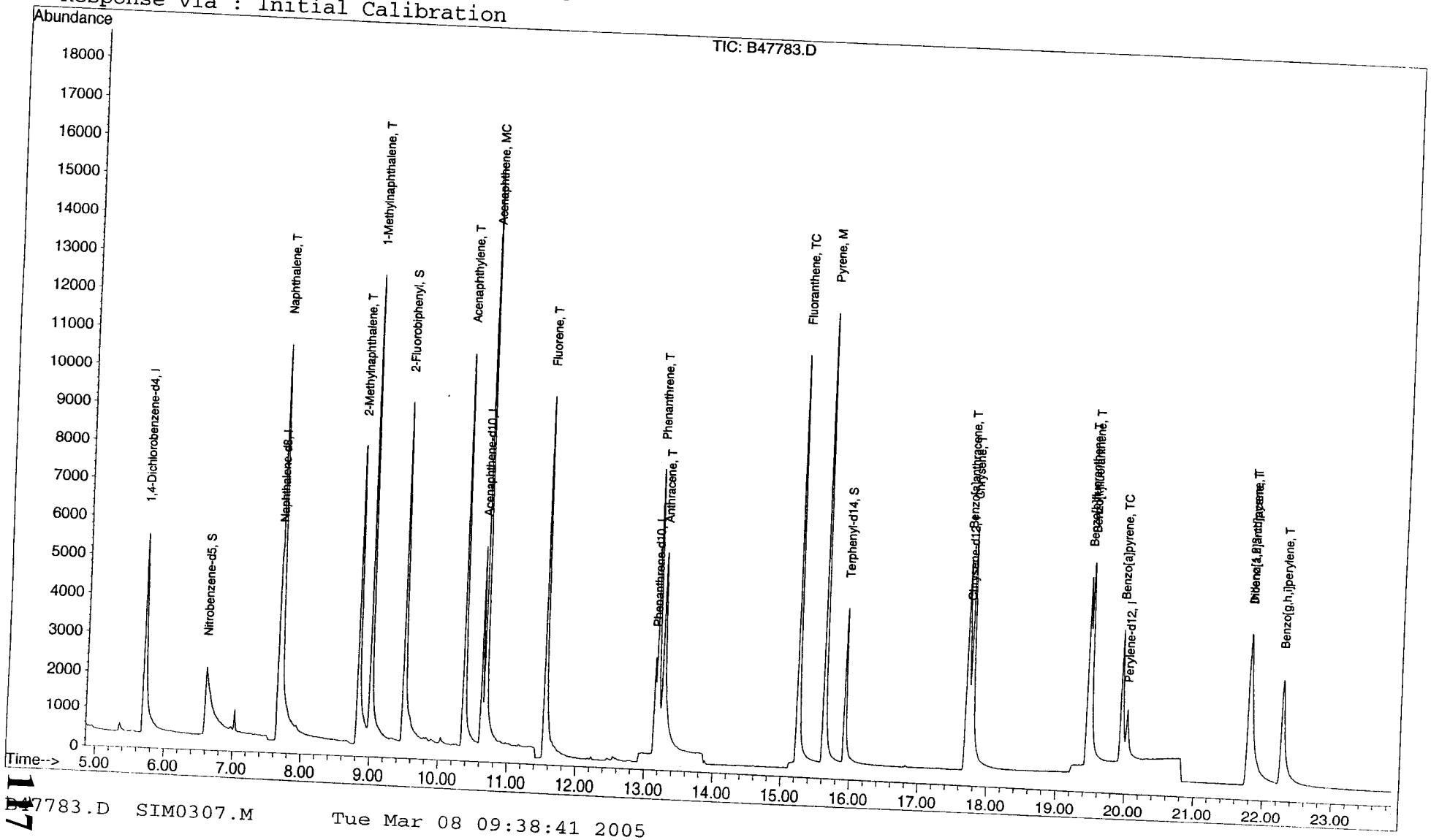
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47783.D
Acq On : 03/07/05 23:56
Sample : 7739-001MS OLFB-1140-MW02-10MS 25310
Misc : SIM W 03/04/05
MS Integration Params: rteint.p
Quant Time: Mar 8 9:27 2005

Vial: 16
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



B47783.D SIM0307.M Tue Mar 08 09:38:41 2005

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47784.D Vial: 17
Acq On : 03/08/05 00:27 Operator: CTP/BP
Sample : 7739-001MSD OLFB-1140-MW02-10MSD 25310 Inst : HP-MSB
Misc : SIM W 03/04/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 9:27 2005 Quant Results File: SIM0307.RES

CTP 3/8/05

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.70	152	4540	0.40 ng	0.02
2) Naphthalene-d8	7.65	136	9014	0.40 ng	0.01
7) Acenaphthene-d10	10.62	164	3667	0.40 ng	0.00
12) Phenanthrene-d10	13.14	188	3937	0.40 ng	0.00
17) Chrysene-d12	17.72	240	2207	0.40 ng	0.00
22) Perylene-d12	20.02	264	1312	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.60	82	7629	0.65 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 65.00%	
8) 2-Fluorobiphenyl	9.48	172	16002	0.63 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 63.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	15.92	244	6206	0.96 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 96.00%	

Target Compounds						Qvalue
4) Naphthalene	7.68	128	20724	0.61 ng		97
5) 2-Methylnaphthalene	8.82	141	6961	0.65 ng	#	71
6) 1-Methylnaphthalene	9.00	142	11046	0.65 ng		99
9) Acenaphthylene	10.36	152	15274	0.64 ng	#	99
10) Acenaphthene	10.66	153	10230	0.64 ng		100
11) Fluorene	11.54	166	11330	0.76 ng		100
13) Phenanthrene	13.18	178	10836	0.95 ng	#	100
14) Anthracene	13.26	178	11990	0.84 ng	#	100
16) Fluoranthene	15.23	202	14053	0.95 ng	#	88
19) Pyrene	15.61	202	15674	0.91 ng	#	96
20) Benzo[a]anthracene	17.69	228	6440	0.92 ng	#	100
21) Chrysene	17.76	228	9757	0.85 ng	#	100
23) Benzo[b]fluoranthene	19.44	252	4348	0.93 ng	#	82
24) Benzo[k]fluoranthene	19.47	252	7561	0.87 ng	#	61
25) Benzo[a]pyrene	19.93	252	5104	0.83 ng	#	89
26) Indeno[1,2,3-cd]pyrene	21.78	276	4784m	0.82 ng		
27) Dibenz[a,h]anthracene	21.80	278	2861	0.87 ng		96
28) Benzo[g,h,i]perylene	22.27	276	4618	0.82 ng		97

(#) = qualifier out of range (m) = manual integration

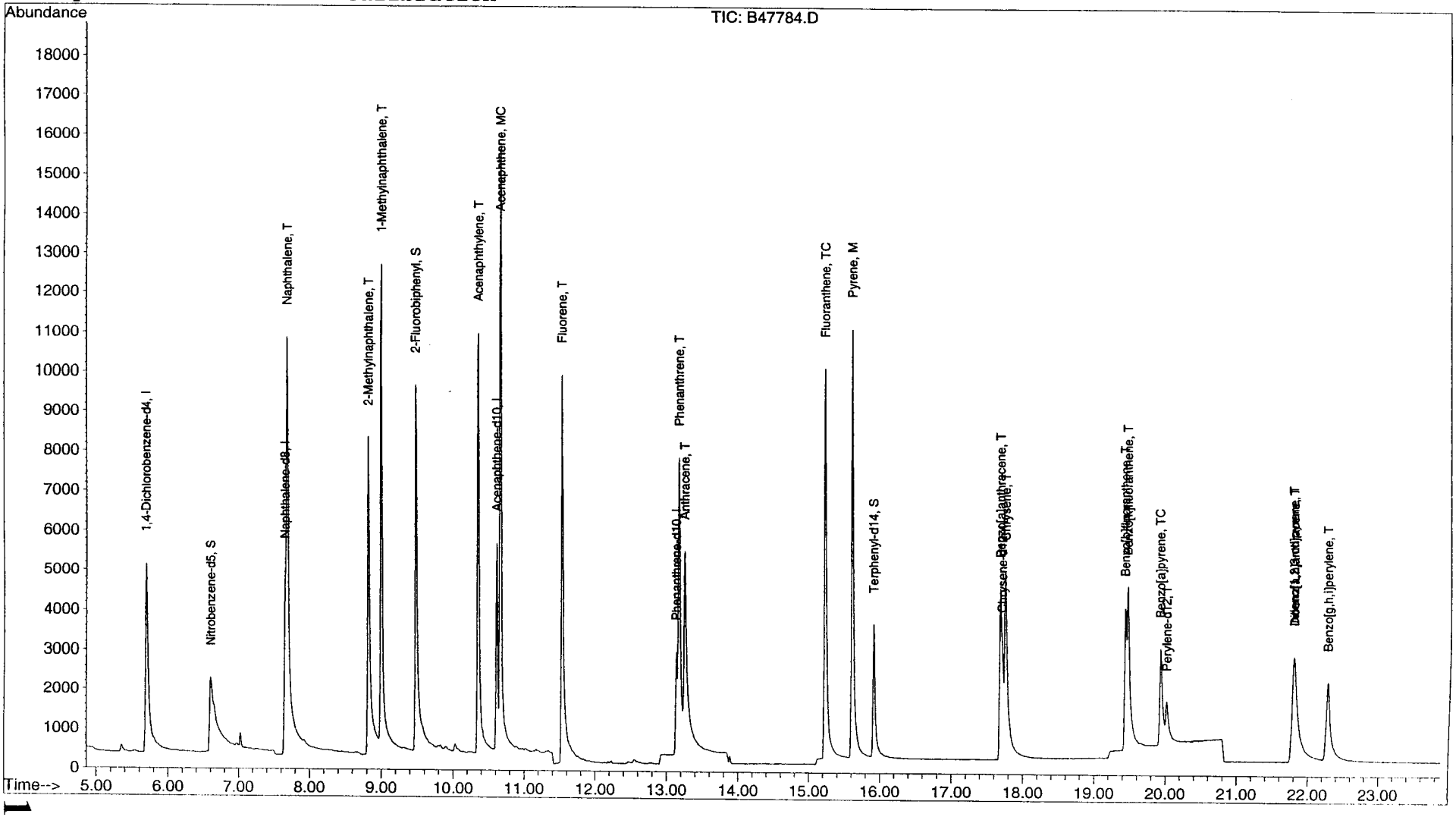
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47784.D
Acq On : 03/08/05 00:27
Sample : 7739-001MSD OLFB-1140-MW02-10MSD 25310
Misc : SIM W 03/04/05
MS Integration Params: rteint.p
Quant Time: Mar 8 9:27 2005

Vial: 17
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



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Semi-Volatiles GC/MS CALIBRATION CHECKLIST
SW-846-8270C

DATE / INSTRUMENT: 3/7/05 B	METHOD: 8270C
CAL TYPE: SIM (0.1-1.6)	

Are all standards within expiration dates for both stock and serial standards? ~~Y~~ N

Are tuning results compliant with method? ~~Y~~ N

Are DDT breakdown and tailing factors within method limits? ~~Y~~ N

Are all Initial Calibration RSDs compliant for CCCs and non-CCC compounds? ~~Y~~ N

If RSDs are non-compliant, was initial calibration curve constructed using one of the alternative methods from method 8000B? (list analytes below) Y N ~~N/A~~

Is the run log completely filled out (including review signature/date)? ~~Y~~ N

Are all mistakes single lined, initialed, and dated? Y N ~~N/A~~

Analyst: CTP	Reviewer: MC
Date: 3/8/05 Time: 09:55	Date: 3/8/05 Time: 12:10

Response Factor Report HP-MSB

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration

CTP 3/8/05

Calibration Files
10 =B47766.D 20 =B47767.D 50 =B47768.D
80 =B47769.D 120 =B47770.D 160 =B47771.D

		Compound	10	20	50	80	120	160	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)	I	Naphthalene-d8	----------ISTD----------							
3)	S	Nitrobenzene-d5	0.481	0.505	0.487	0.530	0.546	0.600	0.525	8.46
4)	T	Naphthalene	1.409	1.504	1.508	1.533	1.541	1.531	1.504	3.27
5)	T	2-Methylnaphthalene	0.427	0.446	0.458	0.489	0.515	0.523	0.476	8.12
6)	T	1-Methylnaphthalene	0.724	0.714	0.793	0.757	0.794	0.761	0.757	4.43
7)	I	Acenaphthene-d10	----------ISTD----------							
8)	S	2-Fluorobiphenyl	2.299	2.574	2.865	2.895	2.988	2.998	2.770	10.01
9)	T	Acenaphthylene	2.406	2.396	2.545	2.670	2.817	2.818	2.609	7.31
10)	MC	Acenaphthene	1.717	1.693	1.733	1.761	1.824	1.809	1.756	2.96
11)	T	Fluorene	1.452	1.586	1.588	1.577	1.797	1.810	1.635	8.57
12)	I	Phenanthrene-d10	----------ISTD----------							
13)	T	Phenanthrene	1.056	1.058	1.118	1.161	1.276	1.302	1.162	9.15
14)	T	Anthracene	1.408	1.349	1.409	1.507	1.524	1.554	1.458	5.55
15)	S	o-Terphenyl	1.500	1.415	1.326	1.271	1.260	1.259	1.338	7.41
16)	TC	Fluoranthene	1.401	1.537	1.392	1.519	1.577	1.634	1.510	6.40
17)	I	Chrysene-d12	----------ISTD----------							
18)	S	Terphenyl-d14	1.257	1.080	1.168	1.136	1.222	1.187	1.175	5.34
19)	M	Pyrene	3.057	2.850	3.254	2.998	3.404	3.185	3.125	6.32
20)	T	Benzo[a]anthracene	1.234	1.085	1.173	1.284	1.398	1.427	1.267	10.35
21)	T	Chrysene	2.164	2.087	2.129	2.084	2.045	2.017	2.088	2.57
22)	I	Perylene-d12	----------ISTD----------							
23)	T	Benzo[b]fluoranthen	1.252	1.273	1.288	1.555	1.537	1.693	1.433	12.97
24)	T	Benzo[k]fluoranthen	2.726	2.501	2.734	2.531	2.670	2.719	2.647	3.94
25)	TC	Benzo[a]pyrene	1.995	1.754	1.811	1.853	1.882	1.969	1.877	4.91
26)	T	Indeno[1,2,3-cd]pyr	1.724	1.697	1.620	1.784	1.831	1.964	1.770	6.75
27)	T	Dibenz[a,h]anthrace	1.018	0.942	0.842	1.058	1.050	1.112	1.004	9.65
28)	T	Benzo[g,h,i]perylen	1.803	1.652	1.580	1.764	1.710	1.818	1.721	5.36

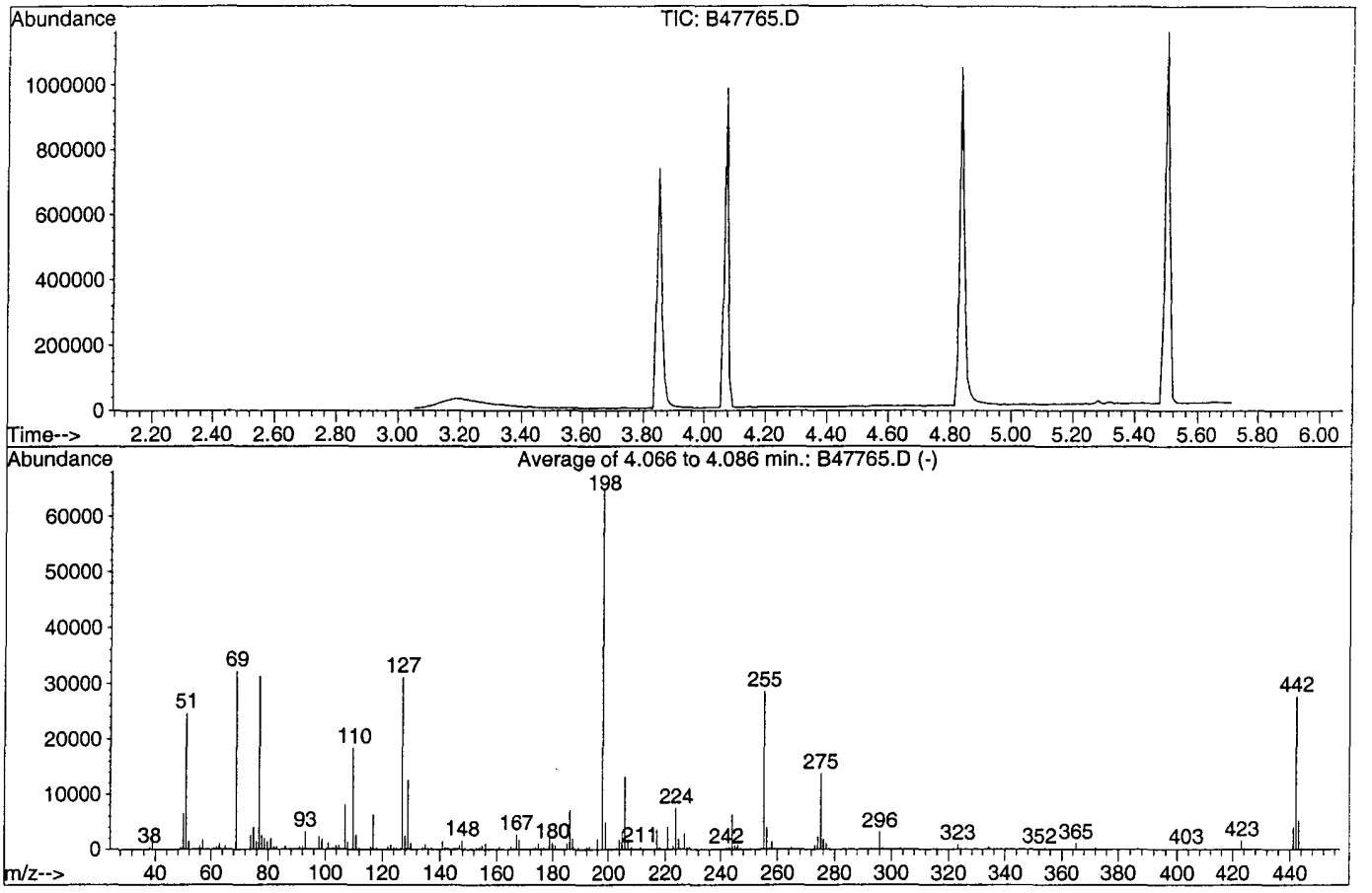
(#) = Out of Range ### Number of calibration levels exceeded format ###

DFTPP

Data File : C:\HPCHEM\1\data\1B030705\B47765.D
Acq On : 03/07/05 14:54
Sample : STUNB44
Misc : S05018
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 C TUNE

Vial: 1
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

CTP 3/7/05



AutoFind: Scans 100, 101, 102; Background Corrected with Scan 97

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.9	24680	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.5	32168	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.8	31079	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	65033	PASS
199	198	5	9	7.5	4851	PASS
275	198	10	30	21.1	13748	PASS
365	198	1	100	1.7	1082	PASS
441	443	0.01	100	77.0	4004	PASS
442	198	40	100	42.6	27687	PASS
443	442	17	23	18.8	5201	PASS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47766.D Vial: 2
Acq On : 03/07/05 15:06 Operator: CTP/BP CTP
Sample : SSTD010B49 Inst : HP-MSB 3/8/05
Misc : SIM S04124 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 17:15 2005 Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	5374	0.40 ng	0.00
2) Naphthalene-d8	7.64	136	10815	0.40 ng	0.00
7) Acenaphthene-d10	10.61	164	4238	0.40 ng	0.00
12) Phenanthrene-d10	13.13	188	4624	0.40 ng	0.00
17) Chrysene-d12	17.71	240	2664	0.40 ng	0.00
22) Perylene-d12	20.01	264	1626	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.68	82	1300m	0.10 ng/ul	0.08
Spiked Amount 1.000			Recovery	= 10.00%	
8) 2-Fluorobiphenyl	9.48	172	2436	0.08 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 8.00%	
15) o-Terphenyl	13.87	230	1734	0.11 ng	0.00
Spiked Amount 1.000			Recovery	= 11.00%	
18) Terphenyl-d14	15.92	244	837	0.11 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 11.00%	

Target Compounds						Qvalue
4) Naphthalene	7.67	128	3809	0.09 ng		91
5) 2-Methylnaphthalene	8.82	141	1154m	0.09 ng		
6) 1-Methylnaphthalene	8.99	142	1957	0.09 ng		98
9) Acenaphthylene	10.35	152	2549	0.09 ng	#	86
10) Acenaphthene	10.65	153	1819	0.10 ng		97
11) Fluorene	11.54	166	1538	0.09 ng		90
13) Phenanthrene	13.17	178	1221	0.09 ng	#	97
14) Anthracene	13.26	178	1628	0.10 ng	#	88
16) Fluoranthene	15.23	202	1619	0.10 ng	#	98
19) Pyrene	15.61	202	2036	0.09 ng	#	98
20) Benzo[a]anthracene	17.69	228	822	0.11 ng	#	100
21) Chrysene	17.76	228	1441	0.10 ng	#	93
23) Benzo[b]fluoranthene	19.44	252	509	0.10 ng	#	81
24) Benzo[k]fluoranthene	19.47	252	1108	0.10 ng	#	54
25) Benzo[a]pyrene	19.93	252	811	0.11 ng	#	96
26) Indeno[1,2,3-cd]pyrene	21.80	276	701m	0.11 ng		
27) Dibenz[a,h]anthracene	21.82	278	414	0.12 ng	#	79
28) Benzo[g,h,i]perylene	22.27	276	733	0.11 ng		96

(#) = qualifier out of range (m) = manual integration

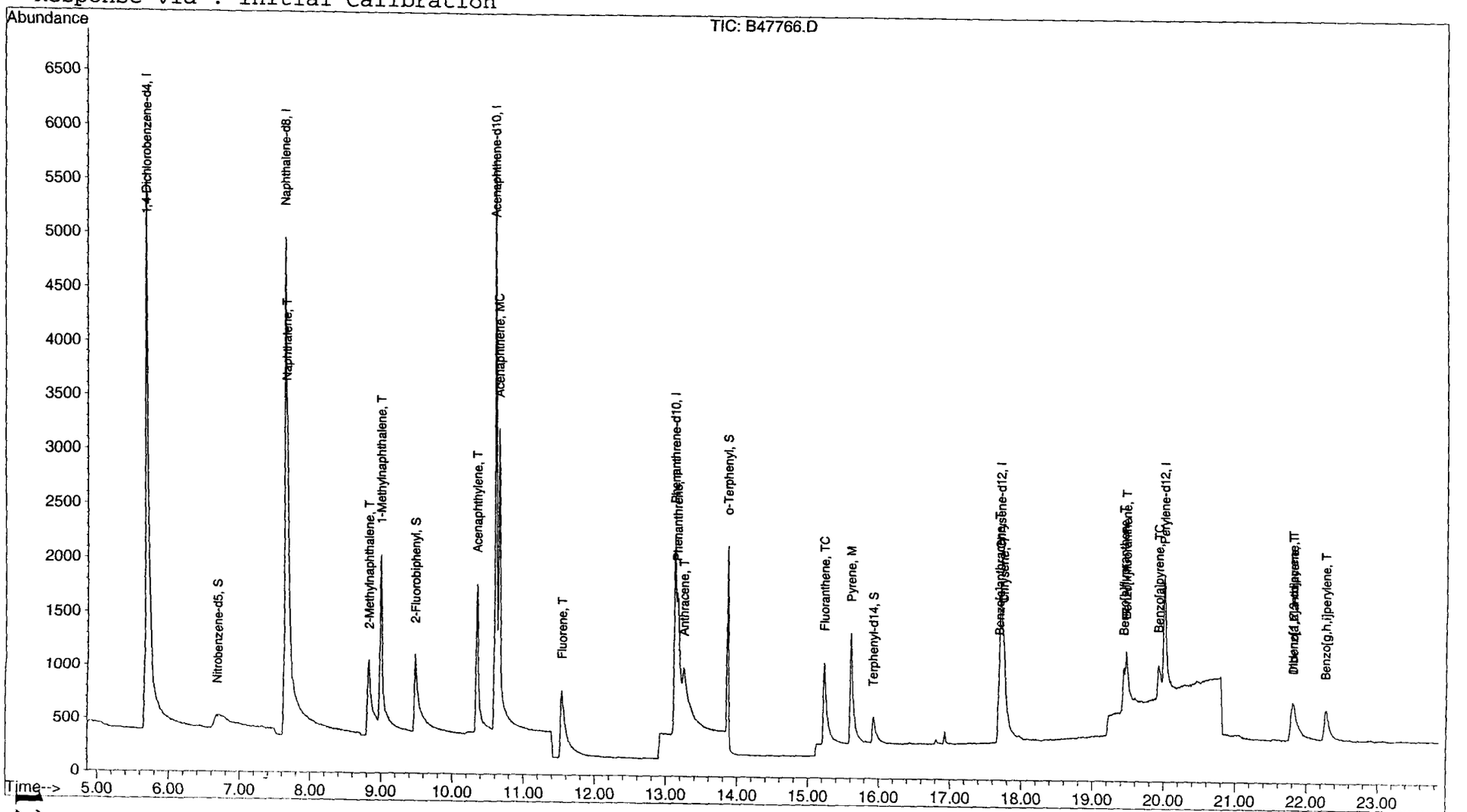
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47766.D
Acq On : 03/07/05 15:06
Sample : SSTD010B49
Misc : SIM S04124
MS Integration Params: rteint.p
Quant Time: Mar 7 17:15 2005

Vial: 2
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47767.D
Acq On : 03/07/05 15:37
Sample : SSTD020B49
Misc : SIM S04125
MS Integration Params: rteint.p
Quant Time: Mar 7 17:17 2005

Vial: 3
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

CTP 3/8/05

Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.69	152	6632	0.40 ng	0.00
2) Naphthalene-d8	7.64	136	12706	0.40 ng	0.00
7) Acenaphthene-d10	10.60	164	4858	0.40 ng	0.00
12) Phenanthrene-d10	13.14	188	4769	0.40 ng	0.00
17) Chrysene-d12	17.72	240	2895	0.40 ng	0.00
22) Perylene-d12	20.01	264	1822	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.67	82	3209m	0.21 ng/ul	0.07
Spiked Amount 1.000			Recovery	= 21.00%	
8) 2-Fluorobiphenyl	9.48	172	6252	0.18 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 18.00%	
15) o-Terphenyl	13.87	230	3373	0.21 ng	0.00
Spiked Amount 1.000			Recovery	= 21.00%	
18) Terphenyl-d14	15.93	244	1563	0.18 ng/ul	0.01
Spiked Amount 1.000			Recovery	= 18.00%	

Target Compounds						Qvalue
4) Naphthalene	7.67	128	9552	0.20 ng		99
5) 2-Methylnaphthalene	8.82	141	2836m	0.19 ng		
6) 1-Methylnaphthalene	8.99	142	4533	0.18 ng		93
9) Acenaphthylene	10.34	152	5819	0.19 ng	#	96
10) Acenaphthene	10.66	153	4112	0.20 ng		99
11) Fluorene	11.54	166	3853m	0.20 ng		
13) Phenanthrene	13.17	178	2523	0.19 ng	#	100
14) Anthracene	13.26	178	3217	0.19 ng	#	99
16) Fluoranthene	15.23	202	3664m	0.22 ng		
19) Pyrene	15.61	202	4125	0.18 ng	#	96
20) Benzo[a]anthracene	17.69	228	1571	0.18 ng	#	100
21) Chrysene	17.75	228	3021	0.20 ng	#	99
23) Benzo[b]fluoranthene	19.44	252	1160m	0.20 ng		
24) Benzo[k]fluoranthene	19.47	252	2278	0.18 ng	#	56
25) Benzo[a]pyrene	19.93	252	1598	0.19 ng	#	85
26) Indeno[1,2,3-cd]pyrene	21.79	276	1546m	0.21 ng		
27) Dibenz[a,h]anthracene	21.82	278	858	0.22 ng		92
28) Benzo[g,h,i]perylene	22.27	276	1505	0.21 ng		99

) = qualifier out of range (m) = manual integration

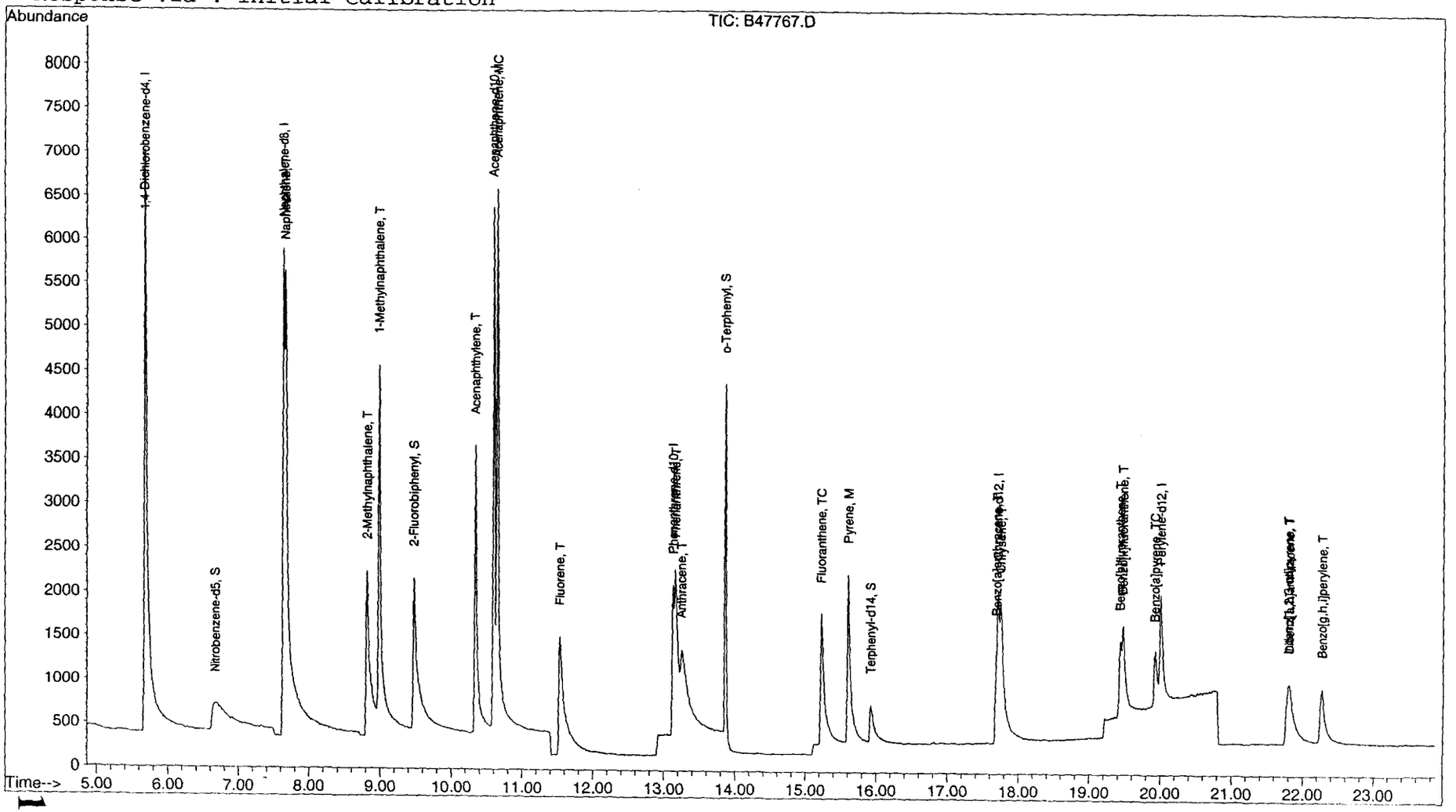
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47767.D
Acq On : 03/07/05 15:37
Sample : SSTD020B49
Misc : SIM S04125
MS Integration Params: rteint.p
Quant Time: Mar 7 17:17 2005

Vial: 3
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47768.D Vial: 4
Acq On : 03/07/05 16:09 Operator: CTP/BP
Sample : SSTD050B49 Inst : HP-MSB
Misc : SIM S04126 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 17:14 2005 Quant Results File: SIM0307.RES

CTP 3/8/05

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	6093	0.40 ng	0.00
2) Naphthalene-d8	7.64	136	11527	0.40 ng	0.00
7) Acenaphthene-d10	10.61	164	4284	0.40 ng	0.00
12) Phenanthrene-d10	13.13	188	4249	0.40 ng	0.00
17) Chrysene-d12	17.71	240	2181	0.40 ng	0.00
22) Perylene-d12	20.01	264	1299	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.60	82	7010	0.49 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 49.00%	
8) 2-Fluorobiphenyl	9.47	172	15340	0.50 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 50.00%	
15) o-Terphenyl	13.87	230	7043	0.49 ng	0.00
Spiked Amount 1.000			Recovery	= 49.00%	
18) Terphenyl-d14	15.92	244	3184	0.50 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 50.00%	

Target Compounds						Qvalue
4) Naphthalene	7.67	128	21733	0.49 ng		100
5) 2-Methylnaphthalene	8.81	141	6601	0.53 ng	#	100
6) 1-Methylnaphthalene	8.99	142	11421	0.49 ng		100
9) Acenaphthylene	10.34	152	13627	0.51 ng	#	100
10) Acenaphthene	10.66	153	9278	0.50 ng		100
11) Fluorene	11.53	166	8503	0.51 ng		98
13) Phenanthrene	13.17	178	5939	0.49 ng	#	100
14) Anthracene	13.26	178	7481	0.50 ng	#	100
16) Fluoranthene	15.23	202	7391	0.48 ng	#	100
19) Pyrene	15.61	202	8871	0.50 ng	#	100
20) Benzo[a]anthracene	17.68	228	3199	0.50 ng	#	100
21) Chrysene	17.75	228	5804	0.51 ng	#	99
23) Benzo[b]fluoranthene	19.43	252	2091	0.50 ng	#	100
24) Benzo[k]fluoranthene	19.47	252	4440	0.53 ng	#	60
25) Benzo[a]pyrene	19.93	252	2941	0.51 ng	#	100
26) Indeno[1,2,3-cd]pyrene	21.78	276	2630m	0.50 ng		
27) Dibenz[a,h]anthracene	21.81	278	1368	0.50 ng		100
28) Benzo[g,h,i]perylene	22.26	276	2566	0.51 ng		99

(#) = qualifier out of range (m) = manual integration

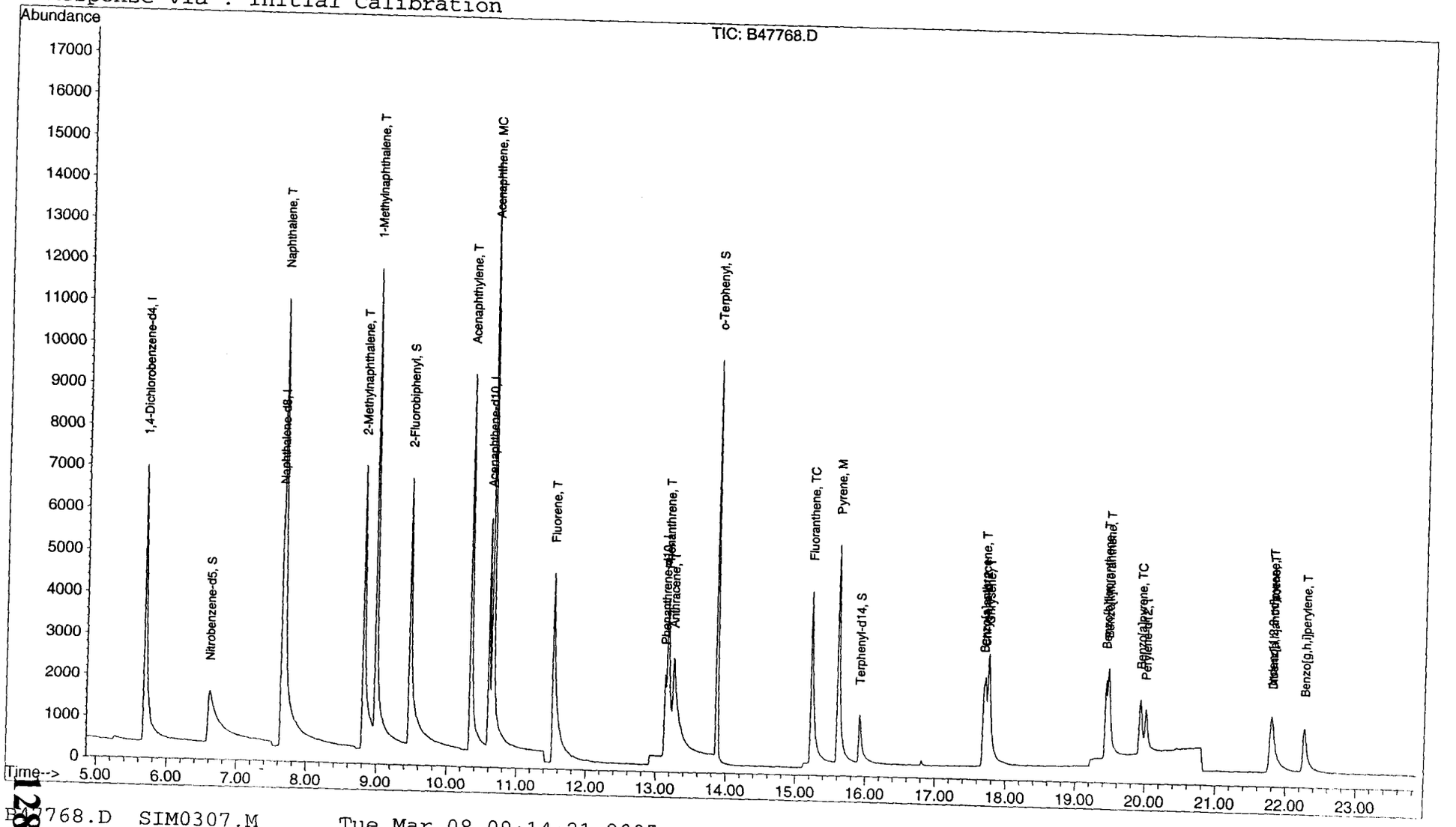
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47768.D
Acq On : 03/07/05 16:09
Sample : SSTD050B49
Misc : SIM S04126
MS Integration Params: rteint.p
Quant Time: Mar 7 17:14 2005

Vial: 4
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



B47768.D SIM0307.M Tue Mar 08 09:14:21 2005

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47769.D
Acq On : 03/07/05 16:40
Sample : SSTD080B49
Misc : SIM S04127
MS Integration Params: rteint.p
Quant Time: Mar 7 17:17 2005

Vial: 5
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

CTP 3/8/05

Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.69	152	6457	0.40 ng	0.00
2) Naphthalene-d8	7.64	136	12266	0.40 ng	0.00
7) Acenaphthene-d10	10.61	164	4495	0.40 ng	0.00
12) Phenanthrene-d10	13.13	188	4879	0.40 ng	0.00
17) Chrysene-d12	17.71	240	2822	0.40 ng	0.00
22) Perylene-d12	20.00	264	1768	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.59	82	13000	0.87 ng/ul	-0.02
Spiked Amount 1.000			Recovery	= 87.00%	
8) 2-Fluorobiphenyl	9.47	172	26030	0.81 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 81.00%	
15) o-Terphenyl	13.87	230	12399	0.77 ng	0.00
Spiked Amount 1.000			Recovery	= 77.00%	
18) Terphenyl-d14	15.92	244	6409	0.78 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 78.00%	

Target Compounds						Qvalue
4) Naphthalene	7.67	128	37614	0.81 ng		99
5) 2-Methylnaphthalene	8.81	141	11987	0.85 ng	#	100
6) 1-Methylnaphthalene	8.99	142	18577	0.76 ng		94
9) Acenaphthylene	10.34	152	24005	0.84 ng	#	100
10) Acenaphthene	10.65	153	15833	0.81 ng		99
11) Fluorene	11.53	166	14176m	0.79 ng		
13) Phenanthrene	13.17	178	11329	0.83 ng	#	99
14) Anthracene	13.25	178	14702	0.86 ng	#	99
16) Fluoranthene	15.23	202	14825	0.87 ng	#	99
19) Pyrene	15.61	202	16918	0.74 ng	#	97
20) Benzo[a]anthracene	17.68	228	7245	0.88 ng	#	100
21) Chrysene	17.75	228	11760	0.78 ng	#	99
23) Benzo[b]fluoranthene	19.43	252	5498	0.97 ng	#	85
24) Benzo[k]fluoranthene	19.47	252	8951	0.74 ng	#	57
25) Benzo[a]pyrene	19.92	252	6551	0.82 ng	#	93
26) Indeno[1,2,3-cd]pyrene	21.77	276	6309m	0.88 ng		
27) Dibenz[a,h]anthracene	21.80	278	3741	1.00 ng		98
28) Benzo[g,h,i]perylene	22.26	276	6236	0.89 ng		98

(#) = qualifier out of range (m) = manual integration

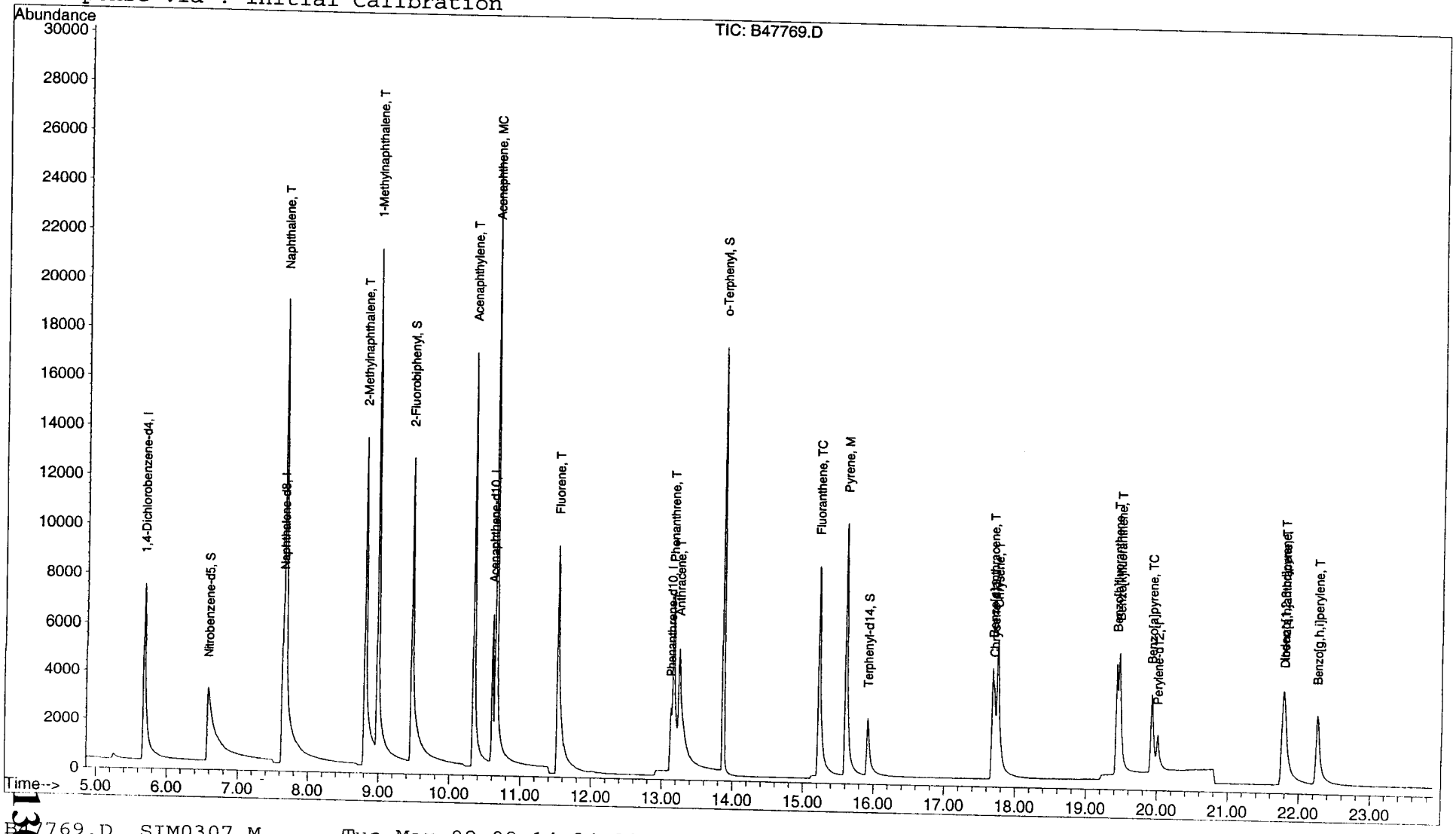
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47769.D
Acq On : 03/07/05 16:40
Sample : SSTD080B49
Misc : SIM S04127
MS Integration Params: rteint.p
Quant Time: Mar 7 17:17 2005

Vial: 5
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



B47769.D SIM0307.M Tue Mar 08 09:14:24 2005

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47770.D
Acq On : 03/07/05 17:11
Sample : SSTD120B49
Misc : SIM S04128
MS Integration Params: rteint.p
Quant Time: Mar 7 17:47 2005

Vial: 6
Operator: CTP/BP CTP 3/8/05
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	6018	0.40 ng	0.00
2) Naphthalene-d8	7.64	136	11523	0.40 ng	0.00
7) Acenaphthene-d10	10.61	164	4027	0.40 ng	0.00
12) Phenanthrene-d10	13.13	188	4407	0.40 ng	0.00
17) Chrysene-d12	17.71	240	2394	0.40 ng	0.00
22) Perylene-d12	20.01	264	1401	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.58	82	18888	1.35 ng/ul	-0.03
Spiked Amount 1.000			Recovery	= 135.00%	
8) 2-Fluorobiphenyl	9.47	172	36102	1.25 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 125.00%	
15) o-Terphenyl	13.87	230	16653	1.14 ng	0.00
Spiked Amount 1.000			Recovery	= 114.00%	
18) Terphenyl-d14	15.91	244	8773	1.26 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 126.00%	

Target Compounds						Qvalue
4) Naphthalene	7.67	128	53281	1.23 ng		100
5) 2-Methylnaphthalene	8.81	141	17805	1.35 ng	#	99
6) 1-Methylnaphthalene	8.99	142	27440	1.20 ng		100
9) Acenaphthylene	10.34	152	34032	1.33 ng	#	100
10) Acenaphthene	10.66	153	22033	1.26 ng		99
11) Fluorene	11.53	166	21705	1.36 ng		98
13) Phenanthrene	13.16	178	16866	1.37 ng	#	99
14) Anthracene	13.24	178	20152	1.30 ng	#	100
16) Fluoranthene	15.22	202	20845	1.36 ng	#	99
19) Pyrene	15.61	202	24451	1.26 ng	#	82
20) Benzo[a]anthracene	17.67	228	10038	1.43 ng	#	99
21) Chrysene	17.75	228	14687	1.15 ng	#	100
23) Benzo[b]fluoranthene	19.43	252	6460	1.43 ng	#	89
24) Benzo[k]fluoranthene	19.46	252	11224	1.17 ng	#	63
25) Benzo[a]pyrene	19.92	252	7911	1.25 ng	#	91
26) Indeno[1,2,3-cd]pyrene	21.77	276	7695m	1.36 ng		
27) Dibenz[a,h]anthracene	21.79	278	4413	1.50 ng		94
28) Benzo[g,h,i]perylene	22.25	276	7189	1.30 ng		99

(#) = qualifier out of range (m) = manual integration

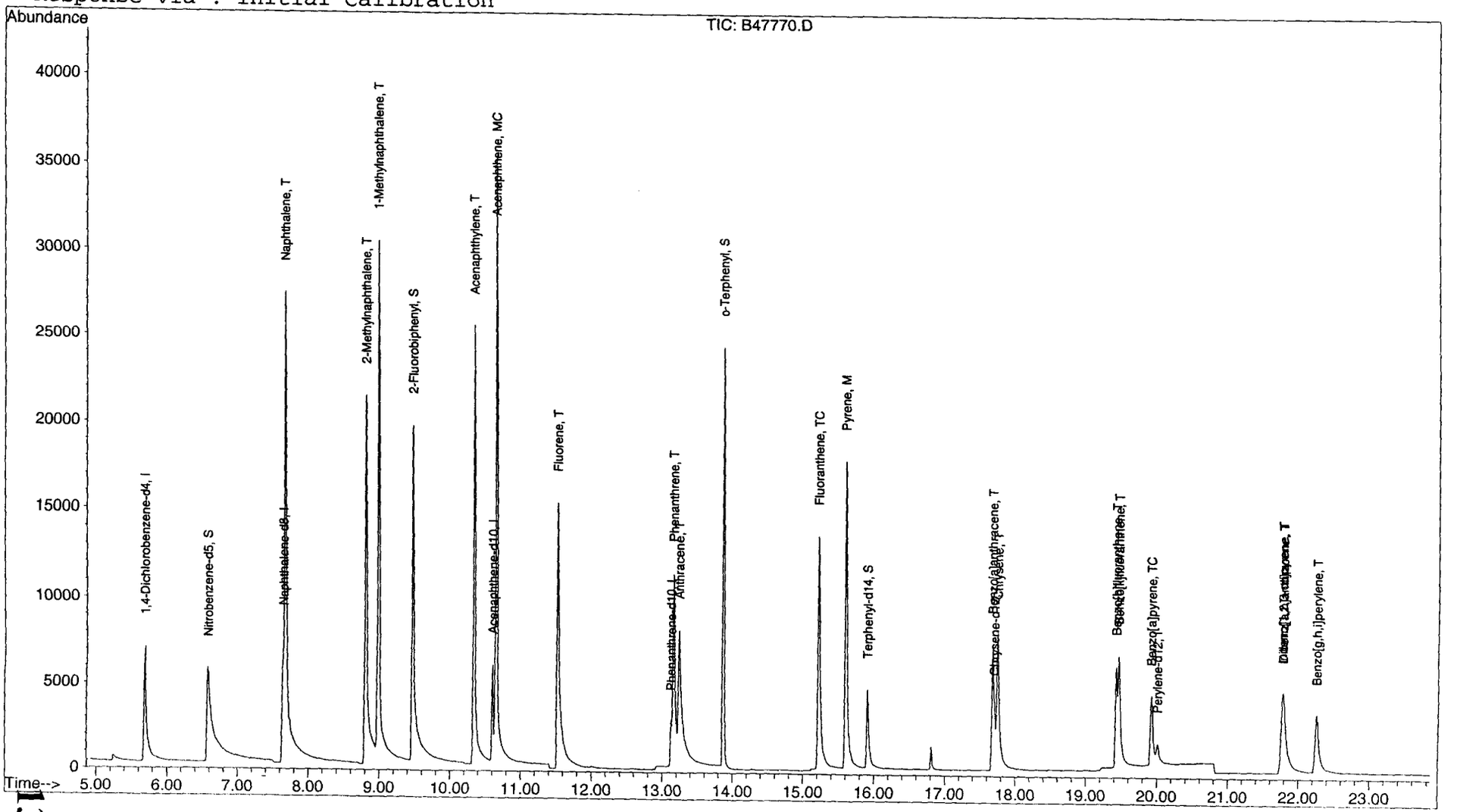
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47770.D
Acq On : 03/07/05 17:11
Sample : SSTD120B49
Misc : SIM S04128
MS Integration Params: rteint.p
Quant Time: Mar 7 17:47 2005

Vial: 6
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47771.D
Acq On : 03/07/05 17:42
Sample : SSTD160B49
Misc : SIM S04129
MS Integration Params: rteint.p
Quant Time: Mar 8 9:05 2005

Vial: 7
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

CTP 3/8/05

Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.69	152	5549	0.40	ng	0.00
2) Naphthalene-d8	7.64	136	10606	0.40	ng	0.00
7) Acenaphthene-d10	10.61	164	3750	0.40	ng	0.00
12) Phenanthrene-d10	13.13	188	4157	0.40	ng	0.00
17) Chrysene-d12	17.70	240	2430	0.40	ng	-0.01
22) Perylene-d12	20.01	264	1387	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.57	82	25434	1.97	ng/ul	-0.03
Spiked Amount 1.000			Recovery	=	197.00%	
8) 2-Fluorobiphenyl	9.47	172	44969	1.67	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	167.00%	
15) o-Terphenyl	13.87	230	20931	1.52	ng	0.00
Spiked Amount 1.000			Recovery	=	152.00%	
18) Terphenyl-d14	15.91	244	11535	1.63	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	163.00%	

Target Compounds							Qvalue
4) Naphthalene	7.67	128	64969	1.62	ng		100
5) 2-Methylnaphthalene	8.80	141	22172	1.83	ng	#	99
6) 1-Methylnaphthalene	8.99	142	32298	1.54	ng		96
9) Acenaphthylene	10.34	152	42273	1.77	ng	#	100
10) Acenaphthene	10.66	153	27133	1.67	ng		100
11) Fluorene	11.52	166	27143	1.82	ng		96
13) Phenanthrene	13.16	178	21651	1.86	ng	#	100
14) Anthracene	13.24	178	25842	1.77	ng	#	100
16) Fluoranthene	15.22	202	27173	1.88	ng	#	99
19) Pyrene	15.60	202	30963	1.57	ng	#	91
20) Benzo[a]anthracene	17.67	228	13875	1.95	ng	#	100
21) Chrysene	17.75	228	19603	1.52	ng	#	100
23) Benzo[b]fluoranthene	19.43	252	9395	2.10	ng	#	89
24) Benzo[k]fluoranthene	19.46	252	15084	1.59	ng	#	64
25) Benzo[a]pyrene	19.92	252	10924	1.74	ng	#	89
26) Indeno[1,2,3-cd]pyrene	21.76	276	10894m	1.94	ng		
27) Dibenz[a,h]anthracene	21.78	278	6172	2.11	ng		97
28) Benzo[g,h,i]perylene	22.25	276	10085	1.84	ng		99

(#) = qualifier out of range (m) = manual integration

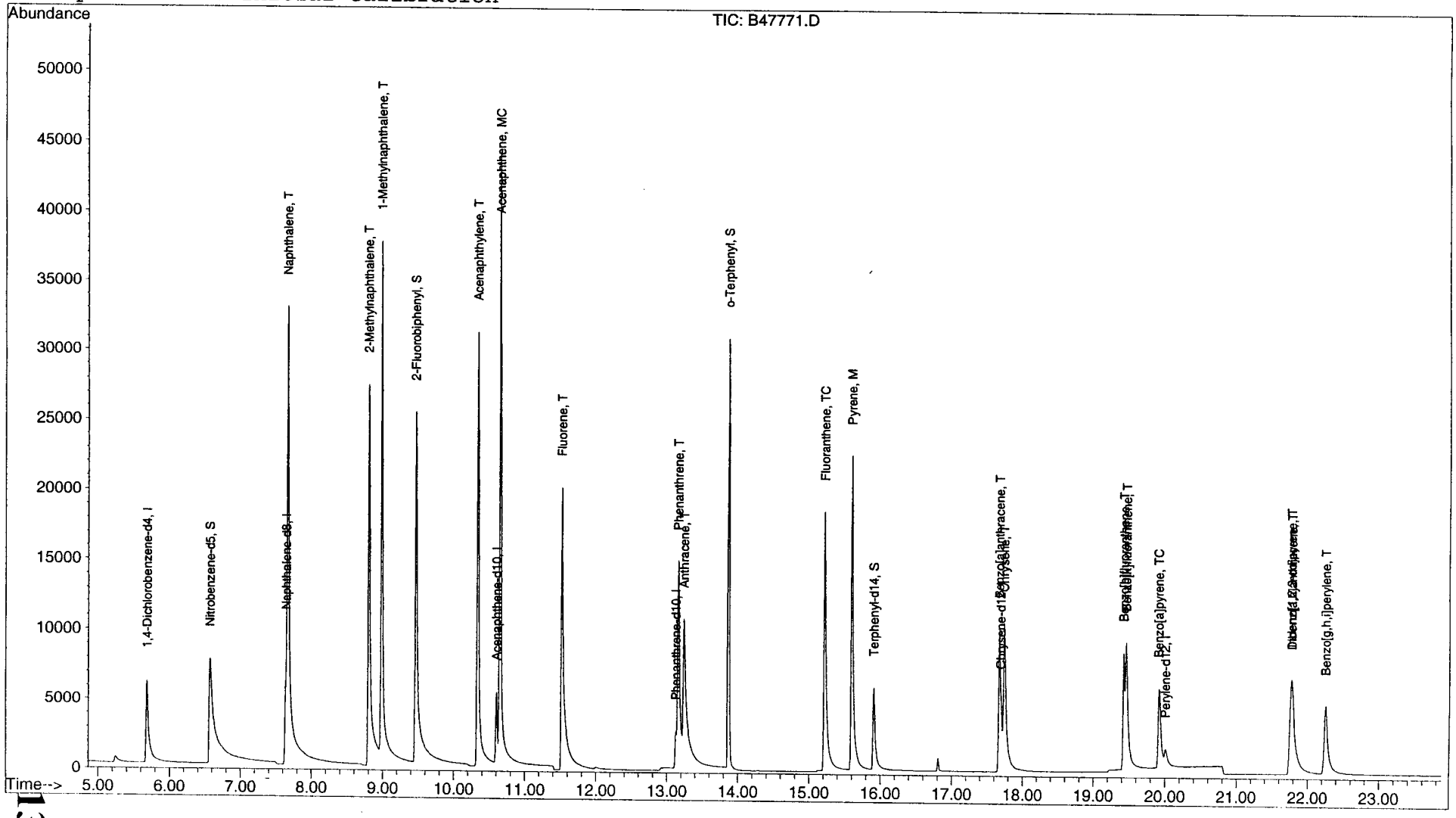
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47771.D
Acq On : 03/07/05 17:42
Sample : SSTD160B49
Misc : SIM S04129
MS Integration Params: rteint.p
Quant Time: Mar 8 9:05 2005

Vial: 7
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030705\B47773.D Vial: 8
Acq On : 03/07/05 18:44 Operator: CTP/BP CTP, 3/8/05
Sample : SSTD050B50 Inst : HP-MSB
Misc : ICV S03373 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 9:13 2005 Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	8592	0.40 ng	0.00
2) Naphthalene-d8	7.64	136	15687	0.40 ng	0.00
7) Acenaphthene-d10	10.61	164	5640	0.40 ng	0.00
12) Phenanthrene-d10	13.13	188	5855m	0.40 ng	0.00
17) Chrysene-d12	17.71	240	3712	0.40 ng	0.00
22) Perylene-d12	20.01	264	2170	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.60	82	9910	0.48 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 48.00%	
8) 2-Fluorobiphenyl	9.47	172	17774m	0.46 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 46.00%	
15) o-Terphenyl	13.87	230	9979	0.51 ng	0.00
Spiked Amount 1.000			Recovery	= 51.00%	
18) Terphenyl-d14	15.91	244	4943	0.45 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 45.00%	

Target Compounds						Qvalue
4) Naphthalene	7.67	128	31608	0.54 ng		99
5) 2-Methylnaphthalene	8.81	141	9668	0.52 ng	#	99
6) 1-Methylnaphthalene	8.99	142	16519	0.56 ng		98
9) Acenaphthylene	10.34	152	19369	0.53 ng	#	99
10) Acenaphthene	10.66	153	12984	0.52 ng		99
11) Fluorene	11.53	166	12267	0.53 ng		96
13) Phenanthrene	13.17	178	9804	0.58 ng	#	
14) Anthracene	13.25	178	11629	0.54 ng	#	
16) Fluoranthene	15.23	202	11872	0.54 ng	#	
19) Pyrene	15.61	202	14052	0.48 ng	#	90
20) Benzo[a]anthracene	17.67	228	6214	0.53 ng	#	100
21) Chrysene	17.75	228	9238	0.48 ng	#	100
23) Benzo[b]fluoranthene	19.43	252	4520	0.58 ng	#	83
24) Benzo[k]fluoranthene	19.47	252	7996	0.56 ng	#	48
25) Benzo[a]pyrene	19.93	252	5744	0.56 ng	#	69
26) Indeno[1,2,3-cd]pyrene	21.77	276	4686	0.49 ng	#	39
27) Dibenz[a,h]anthracene	21.80	278	3023	0.56 ng		95
28) Benzo[g,h,i]perylene	22.26	276	5133	0.55 ng		97

(#) = qualifier out of range (m) = manual integration

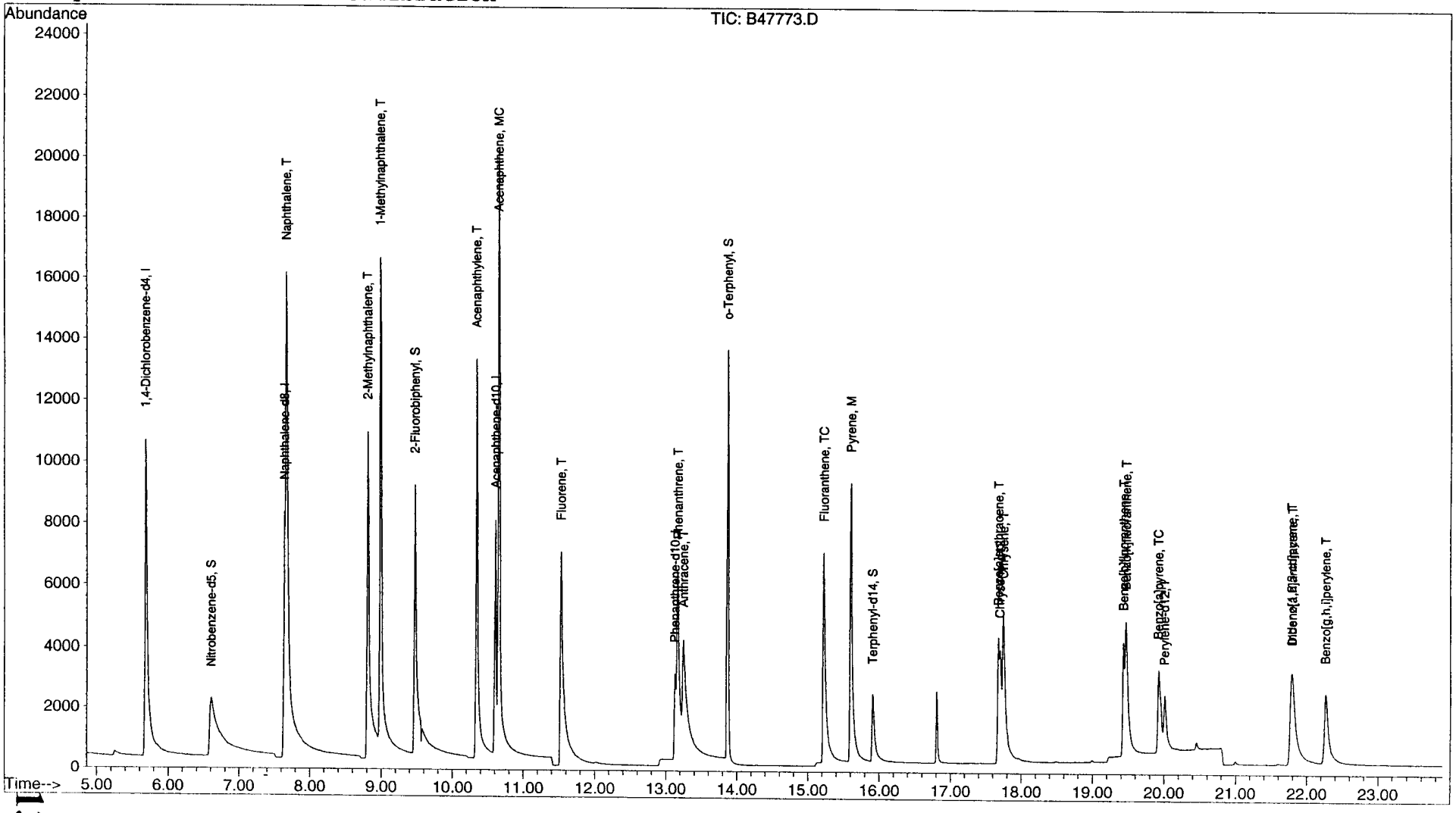
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47773.D
Acq On : 03/07/05 18:44
Sample : SSTD050B50
Misc : ICV S03373
MS Integration Params: rteint.p
Quant Time: Mar 8 9:13 2005

Vial: 8
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1B030705\B47773.D Vial: 8
Acq On : 03/07/05 18:44 Operator: CTP/BP
Sample : SSTD050B50 Inst : HP-MSB
Misc : ICV S03373 Multiplr: 1.00
MS Integration Params: rteint.p

CTP 3/8/05

Method : C:\HPCHEM\1\DATA\1B030705\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Tue Mar 08 09:06:01 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

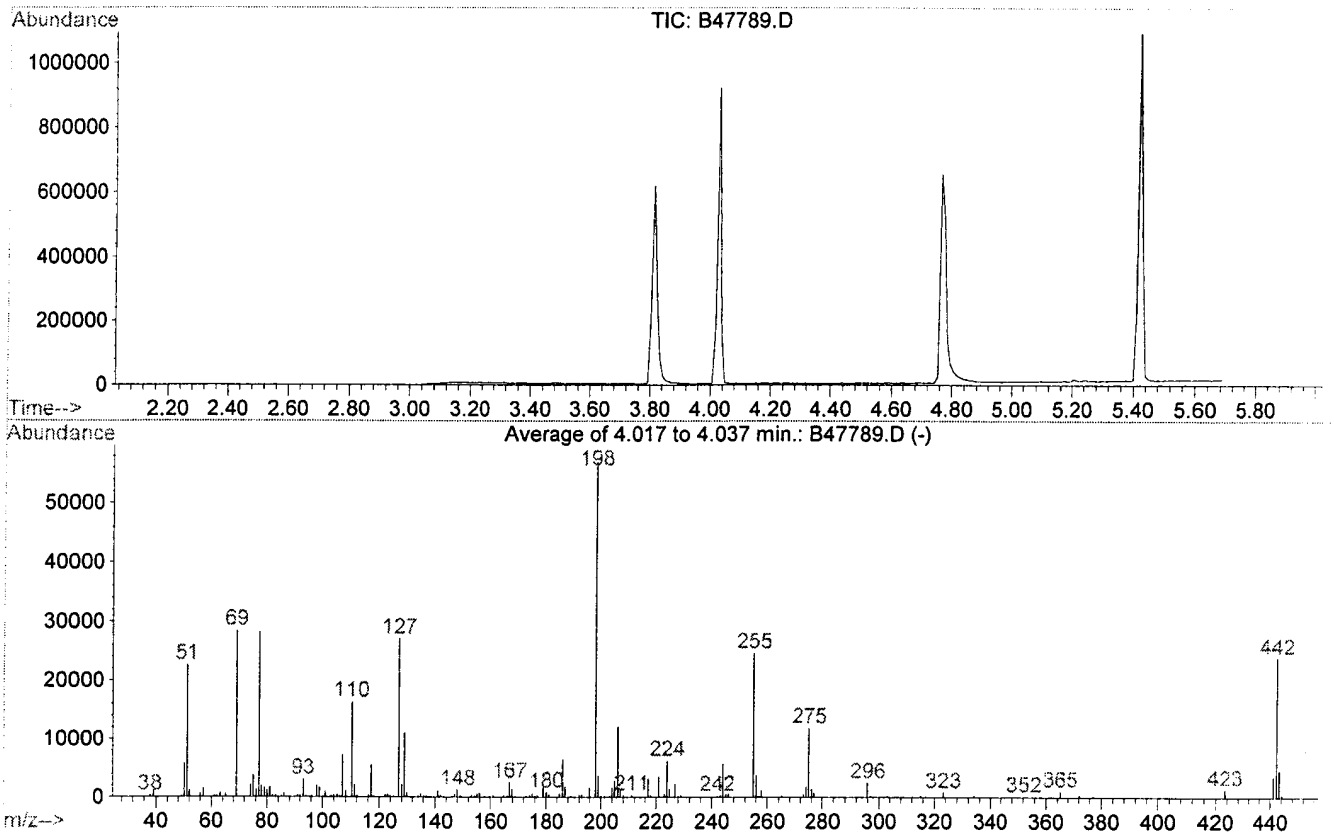
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	141	0.00
2	I	Naphthalene-d8	1.000	1.000	0.0	136	0.00
3	S	Nitrobenzene-d5	0.525	0.505	3.8	141	0.00
4	T	Naphthalene	1.504	1.612	-7.2	145	0.00
5	T	2-Methylnaphthalene	0.476	0.493	-3.6	146	0.00
6	T	1-Methylnaphthalene	0.757	0.842	-11.2	145	0.00
7	I	Acenaphthene-d10	1.000	1.000	0.0	132	0.00
8	S	2-Fluorobiphenyl	2.770	2.521	9.0	116	0.00
9	T	Acenaphthylene	2.609	2.747	-5.3	142	0.00
10	MC	Acenaphthene	1.756	1.842	-4.9	140	0.00
11	T	Fluorene	1.635	1.740	-6.4	144	0.00
12	I	Phenanthrene-d10	1.000	1.000	0.0	138	0.00
13	T	Phenanthrene	1.162	1.340	-15.3	165	0.00
14	T	Anthracene	1.458	1.589	-9.0	155	0.00
15	S	o-Terphenyl	1.338	1.363	-1.9	142	0.00
16	TC	Fluoranthene	1.510	1.622	-7.4	161	0.00
17	I	Chrysene-d12	1.000	1.000	0.0	170	0.00
18	S	Terphenyl-d14	1.175	1.065	9.4	155	0.00
19	M	Pyrene	3.125	3.028	3.1	158	0.00
20	T	Benzo[a]anthracene	1.267	1.339	-5.7	194	0.00
21	T	Chrysene	2.088	1.991	4.6	159	0.00
22	I	Perylene-d12	1.000	1.000	0.0	167	0.00
23	T	Benzo[b]fluoranthene	1.433	1.666	-16.3	216#	0.00
24	T	Benzo[k]fluoranthene	2.647	2.948	-11.4	180	0.00
25	TC	Benzo[a]pyrene	1.877	2.118	-12.8	195	0.00
26	T	Indeno[1,2,3-cd]pyrene	1.770	1.728	2.4	178	-0.01
27	T	Dibenz[a,h]anthracene	1.004	1.114	-11.0	221#	-0.01
28	T	Benzo[g,h,i]perylene	1.721	1.892	-9.9	200#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

DFTPP

Data File : C:\HPCHEM\1\data\1B030805\B47789.D
Acq On : 03/08/05 12:37
Sample : STUNB45
Misc : S05018
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 C TUNE

Vial: 1
Operator: CTP/BP CTP 3/8/05
Inst : HP-MSB
Multiplr: 1.00



AutoFind: Scans 95, 96, 97; Background Corrected with Scan 92

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.8	22637	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	50.0	28453	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.6	27075	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	56896	PASS
199	198	5	9	6.5	3697	PASS
275	198	10	30	20.8	11851	PASS
365	198	1	100	1.8	1046	PASS
441	443	0.01	100	76.5	3491	PASS
442	198	40	100	41.8	23790	PASS
443	442	17	23	19.2	4565	PASS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B030805\B47790.D Vial: 2
Acq On : 03/08/05 12:49 Operator: CTP/BP CTP 3/8/05
Sample : SSTD050B51 Inst : HP-MSB
Misc : SIM S04126 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 13:13 2005 Quant Results File: SIM0307.RES

Quant Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration
DataAcq Meth : SIM0307

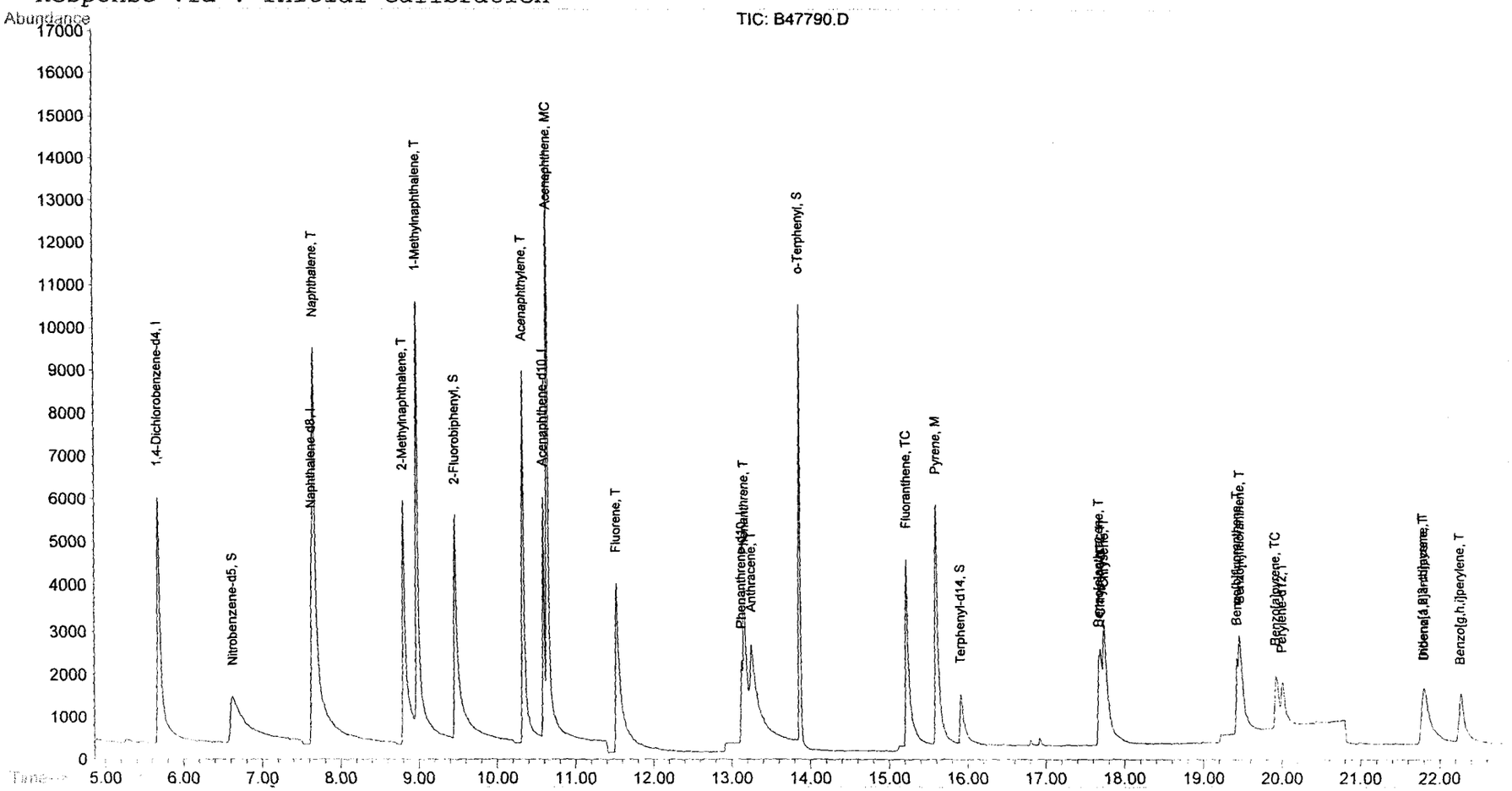
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	5898	0.40	ng		0.00
2) Naphthalene-d8	7.64	136	11143	0.40	ng		0.00
7) Acenaphthene-d10	10.60	164	4338	0.40	ng		0.00
12) Phenanthrene-d10	13.13	188	4633	0.40	ng		0.00
17) Chrysene-d12	17.71	240	2488	0.40	ng		0.00
22) Perylene-d12	20.01	264	1519	0.40	ng		0.00
System Monitoring Compounds							
3) Nitrobenzene-d5	6.62	82	6356	0.43	ng/ul		0.02
Spiked Amount 1.000			Recovery	=	43.00%		
8) 2-Fluorobiphenyl	9.47	172	14155	0.47	ng/ul		0.00
Spiked Amount 1.000			Recovery	=	47.00%		
15) o-Terphenyl	13.87	230	5885	0.38	ng		0.00
Spiked Amount 1.000			Recovery	=	38.00%		
18) Terphenyl-d14	15.92	244	4033	0.55	ng/ul		0.00
Spiked Amount 1.000			Recovery	=	55.00%		
Target Compounds							Qvalue
4) Naphthalene	7.67	128	21106	0.50	ng		99
5) 2-Methylnaphthalene	8.81	141	6138	0.46	ng	#	96
6) 1-Methylnaphthalene	8.99	142	10982	0.52	ng		92
9) Acenaphthylene	10.34	152	13597	0.48	ng	#	99
10) Acenaphthene	10.65	153	9452	0.50	ng		99
11) Fluorene	11.53	166	8415	0.47	ng		98
13) Phenanthrene	13.17	178	6190	0.46	ng	#	98
14) Anthracene	13.26	178	8051	0.48	ng	#	98
16) Fluoranthene	15.23	202	8372	0.48	ng	#	100
19) Pyrene	15.60	202	10407	0.54	ng	#	99
20) Benzo[a]anthracene	17.68	228	3466	0.44	ng	#	97
21) Chrysene	17.75	228	6862	0.53	ng	#	99
23) Benzo[b]fluoranthene	19.43	252	2554m	0.47	ng		
24) Benzo[k]fluoranthene	19.47	252	4995m	0.50	ng		
25) Benzo[a]pyrene	19.93	252	3463	0.49	ng	#	96
26) Indeno[1,2,3-cd]pyrene	21.79	276	3125m	0.46	ng		
27) Dibenz[a,h]anthracene	21.81	278	1776	0.47	ng		96
28) Benzo[g,h,i]perylene	22.26	276	3109	0.48	ng		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B030805\B47790.D Vial: 2
Acq On : 03/08/05 12:49 Operator: CTP/BP
Sample : SSTD050B51 Inst : HP-MSB
Misc : SIM S04126 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 13:13 2005 Quant Results File: SIM0307.RES

Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Initial Calibration



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Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1B030805\B47790.D Vial: 2
Acq On : 03/08/05 12:49 Operator: CTP/BP CTP
Sample : SSTD050B51 Inst : HP-MSB 3/8/05
Misc : SIM S04126 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\1B030805\SIM0307.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Mon Mar 07 17:13:27 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
2	I	Naphthalene-d8	1.000	1.000	0.0	97	0.00
3	S	Nitrobenzene-d5	0.525	0.456	13.1	91	0.02
4	T	Naphthalene	1.504	1.515	-0.7	97	0.00
5	T	2-Methylnaphthalene	0.476	0.441	7.4	93	0.00
6	T	1-Methylnaphthalene	0.757	0.788	-4.1	96	0.00
7	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
8	S	2-Fluorobiphenyl	2.770	2.610	5.8	92	0.00
9	T	Acenaphthylene	2.609	2.508	3.9	100	0.00
10	MC	Acenaphthene	1.756	1.743	0.7	102	0.00
11	T	Fluorene	1.635	1.552	5.1	99	0.00
12	I	Phenanthrene-d10	1.000	1.000	0.0	109	0.00
13	T	Phenanthrene	1.162	1.069	8.0	104	0.00
14	T	Anthracene	1.458	1.390	4.7	108	0.00
15	S	o-Terphenyl	1.338	1.016	24.1#	84	0.00
16	TC	Fluoranthene	1.510	1.446	4.2	113	0.00
17	I	Chrysene-d12	1.000	1.000	0.0	114	0.00
18	S	Terphenyl-d14	1.175	1.297	-10.4	127	0.00
19	M	Pyrene	3.125	3.346	-7.1	117	0.00
20	T	Benzo[a]anthracene	1.267	1.114	12.1	108	0.00
21	T	Chrysene	2.088	2.206	-5.7	118	0.00
22	I	Perylene-d12	1.000	1.000	0.0	117	0.00
23	T	Benzo[b]fluoranthene	1.433	1.345	6.1	122	0.00
24	T	Benzo[k]fluoranthene	2.647	2.631	0.6	113	0.00
25	TC	Benzo[a]pyrene	1.877	1.824	2.8	118	0.00
26	T	Indeno[1,2,3-cd]pyrene	1.770	1.646	7.0	119	0.00
27	T	Dibenz[a,h]anthracene	1.004	0.935	6.9	130	0.00
28	T	Benzo[g,h,i]perylene	1.721	1.637	4.9	121	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

IC DATA CHECKLIST
SW-846-9056

PROJECT #:	7738	METHOD:	9056 (SO4-)
MATRIX:	Water	Due Date:	3/17/2005

INITIAL ANALYST ASSESSMENT			
Are all standards within expiration dates for both stock and serial standards?	Y	N	NA
Are continuing calibrations compliant with method requirements?	Y	N	NA
Is blank result less than 1/2 RDL for analytes of interest?	Y	N	NA
Are all spike recoveries acceptable for the LCS (/LCSD)?	Y	N	NA
Are all requested analytes below the upper calibration limit?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
Were analyses performed such that carryover was not a problem?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	NA
Are all mistakes single lined, initialled, and dated?	Y	N	NA
Are all applicable runlog and extraction sheets signed, dated, and included?	Y	N	NA
Are all analytes to be reported indicated as such on the raw data?	Y	N	NA
Was analysis completed as instructed on the Log-in Record?	Y	N	NA
Has all data been entered into LIMS?	Y	N	NA

Analyst:	LJB		
Date:	3/15/2005	Time:	13:25

PEER REVIEW			
Are continuing calibrations compliant with method requirements?	Y	N	NA
Are all blank and QC results acceptable?	Y	N	NA
Are all analyte calculations correct and reported in the proper units?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	NA
Is the runlog completely filled out (including review signature/date)?	Y	N	NA
Was analysis completed as instructed on the Log-in Record?	Y	N	NA
Have all LIMS entries been checked for accuracy?	Y	N	NA

Reviewer:	CKM		
Date:	3/21/05	Time:	1055

IC Runlog

Date: ~~3/14~~ 3/11/05 (JJB 3/14/05)
Analyst: LJB
ICAL Date/Method: 020305 - Anion_020305
Acquired Method: New autosampler 010605
Analytes: (Nitrate) Nitrite Chloride Phosphate (Sulfate) Fluoride Others( )
Method Ref: SW9056 / EPA300.1
Lot #'s: Working Std: 132 P
Eluent: 131 G

	Spike Conc (ppm)		
	CCV	BKS	MS/MSD
Nitrate	5	5	2.5
Nitrite	—	—	—
Chloride	—	—	—
Phosphate	—	—	—
Sulfate	10	10	5
Fluoride	—	—	—
Others( )	—	—	—

	Result (ppm)									
AAL #	Nitrate as N	Nitrite as N	Chloride	Phosphate as P	Sulfate	Fluoride	Others	Spike Rec %	Time	Comments
IBLK	Ø	—	—	—	Ø	—	—		10:09	
CCV	5.418				10.052				10:26	
BLK	Ø				Ø				10:49	
BKS	5.435				10.167				11:07	
7738-001	—				0.569				11:24	
-002	0.081				8.828				11:42	
-002MD	0.083				9.370				11:59	
-002MS	2.736				10.606				12:16	
-002MSD	2.617				10.423				12:34	
-003	0 → — (JJB 3/14/05)				5.963				12:51	
-004	—				5.824				13:09	
-005	↓				5.364				13:26	
CCV	5.453				10.057				13:43	
CCB	Ø				Ø				14:01	
7738-006					9.464				14:18	
7739-001				11.863	~~9.404~~ (JJB 3/14/05)				14:36	
-002					25.132				14:53	
-002MD					25.479				15:10	
-003					39.511				15:28	
-004					33.344				15:45	
7765-001					4.798				16:03	
-002					8.671				16:20	
-003					7.436				16:37	
-004					3.491				16:55	
CCV	5.493				10.318				17:12	
CCB	Ø				Ø				17:30	

Reviewed by:

Analytical Sequence: 25825

IC Runlog

Date:
Analyst:
ICAL Date/Method:
Acquired Method:
Analytes: Nitrate Nitrite Chloride Phosphate Sulfate Fluoride Others(
Method Ref: SW9056 / EPA300.1
Lot #'s: Working Std:
Eluent:

same as previous page. page#30
JB 3/14/05

	Spike Conc (ppm)		
	CCV	BKS	MS/MSD
Nitrate			
Nitrite			
Chloride			
Phosphate			
Sulfate			
Fluoride			
Others( )			

	Result (ppm)									
AAL #	Nitrate as N	Nitrite as N	Chloride	Phosphate as P	Sulfate	Fluoride	Others	Spike Rec %	Time	Comments
7765-005					6.505				17:47	
-006					8.239				18:04	
-007					7.718				18:22	
7808-004	0.732				—				18:39	
-004 10X	0.044				—				18:57	
CCV	5.440				9.687				19:14	
CCB	Ø				Ø				19:31	
BLK	Ø				Ø				19:49	
BKS					10.428				20:06	soil batch
7777-001					12.371				20:24	
-001 MD					11.368				20:41	
-001 MS					9.639				20:58	
-001 MSD					9.275				21:16	
-002					16.913				21:33	
CCV	5.488				10.037				21:50	
CCB	Ø				Ø				22:08	

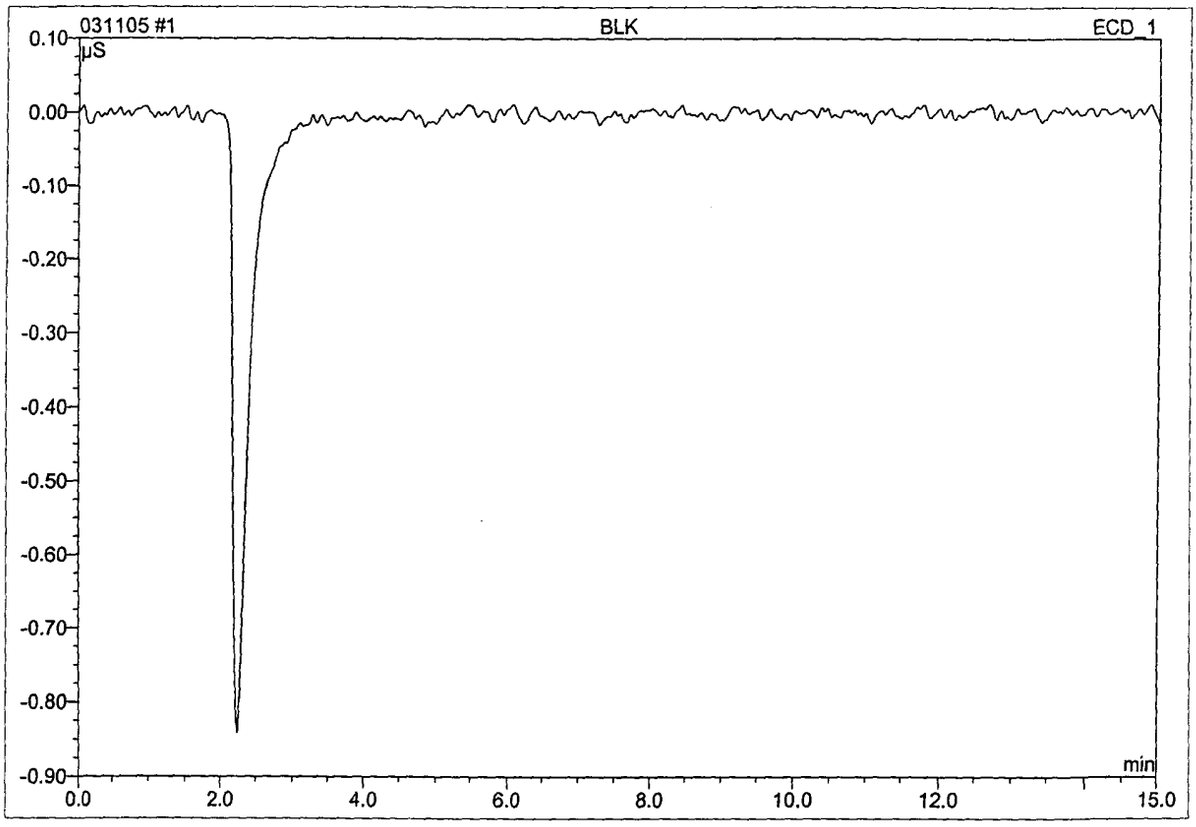
JB 3/14/05

Reviewed by:

Analytical Sequence: 25839 soil batch.

1 BLK

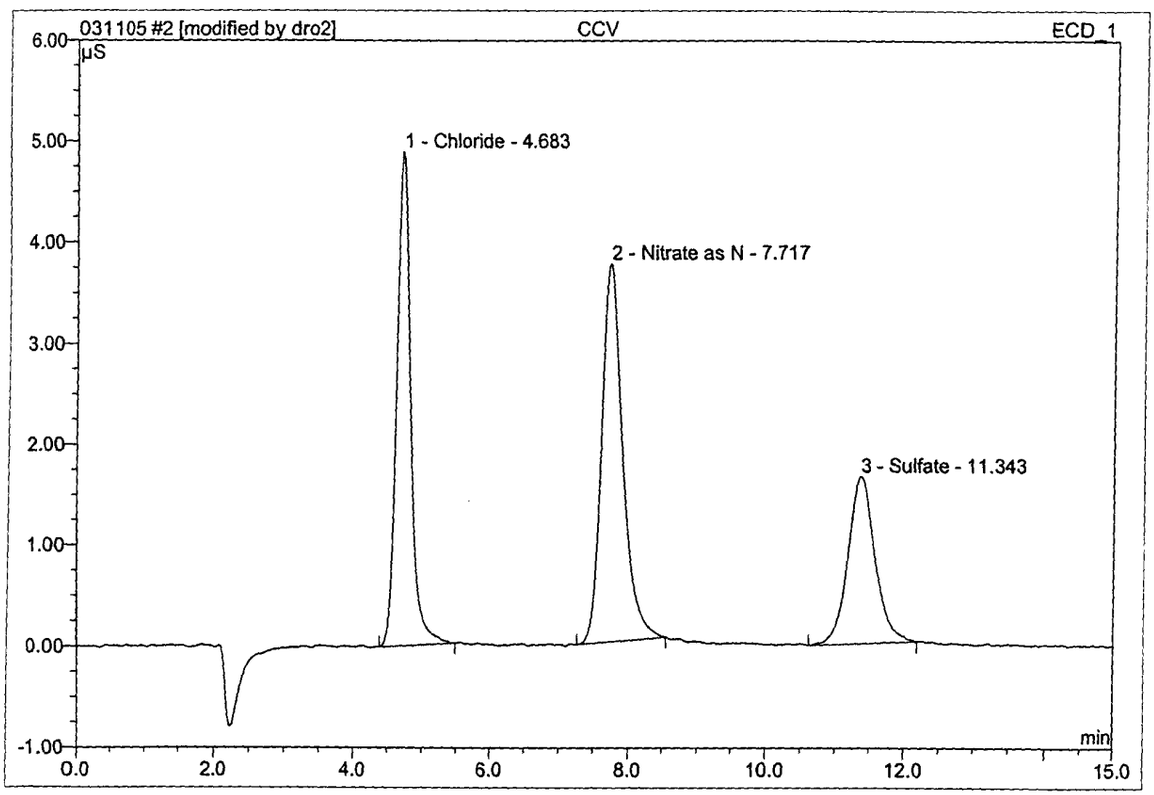
Sample Name:	**BLK**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 10:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

2 CCV

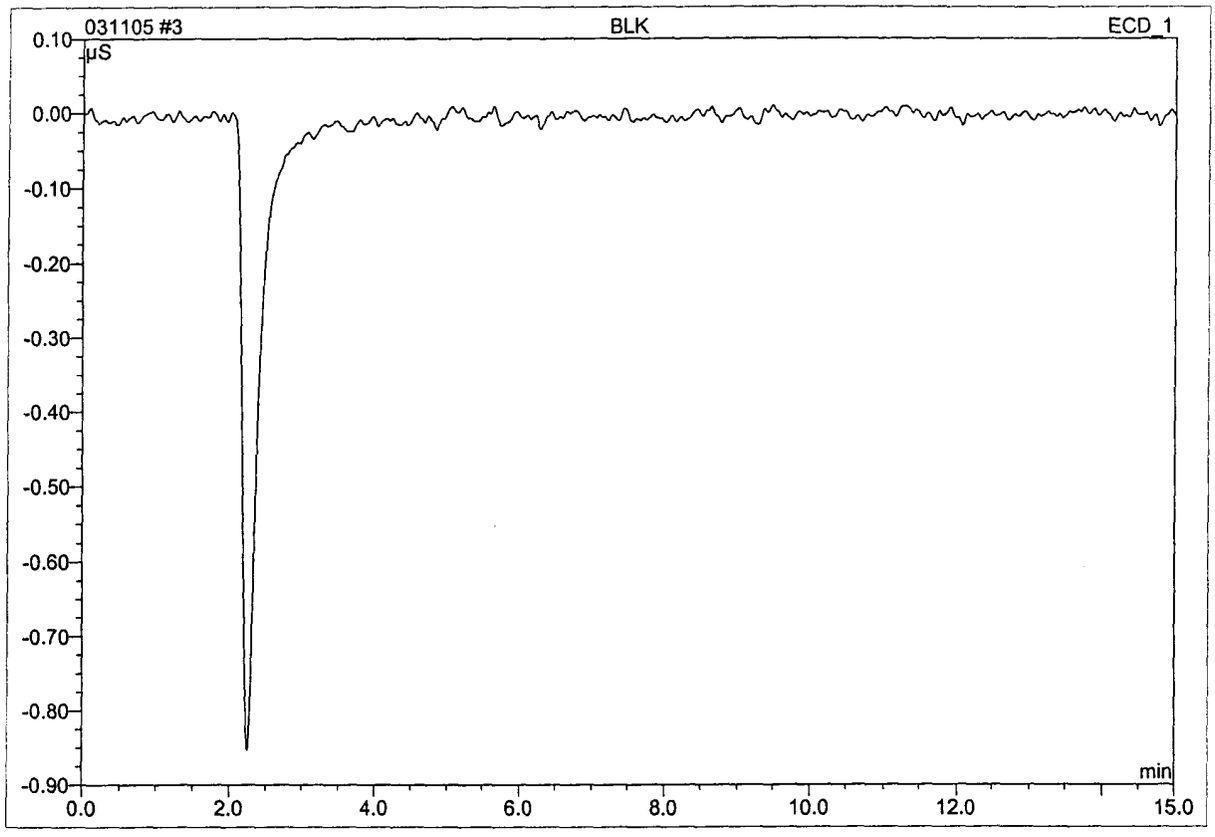
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 10:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	4.888	1.127	35.34	9.746	BMB
2	7.72	Nitrate as N	3.743	1.305	40.93	5.418	BMB*
3	11.34	Sulfate	1.663	0.756	23.72	10.052	BMB
Total:			10.294	3.188	100.00	25.217	

3 BLK

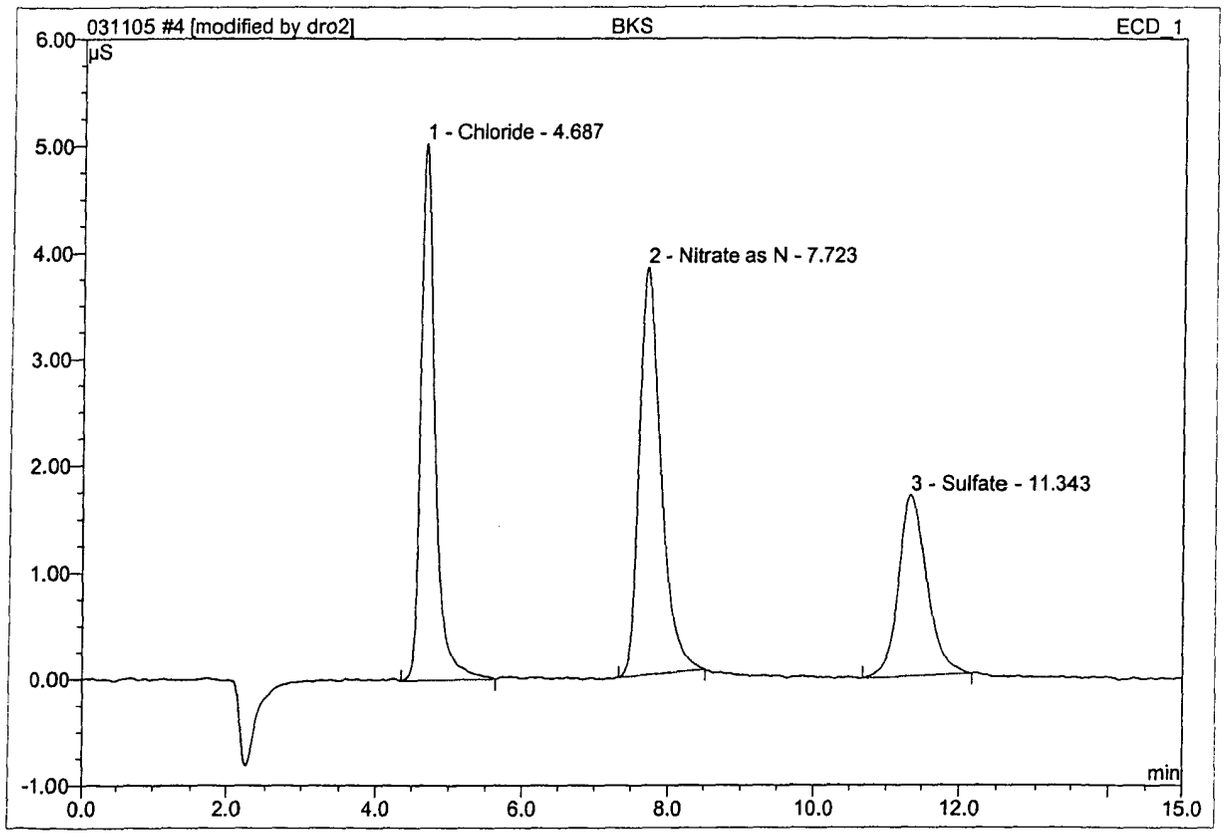
Sample Name:	**BLK**	*Injection Volume:*	**20.0**
Vial Number:	**3**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 10:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

4 BKS

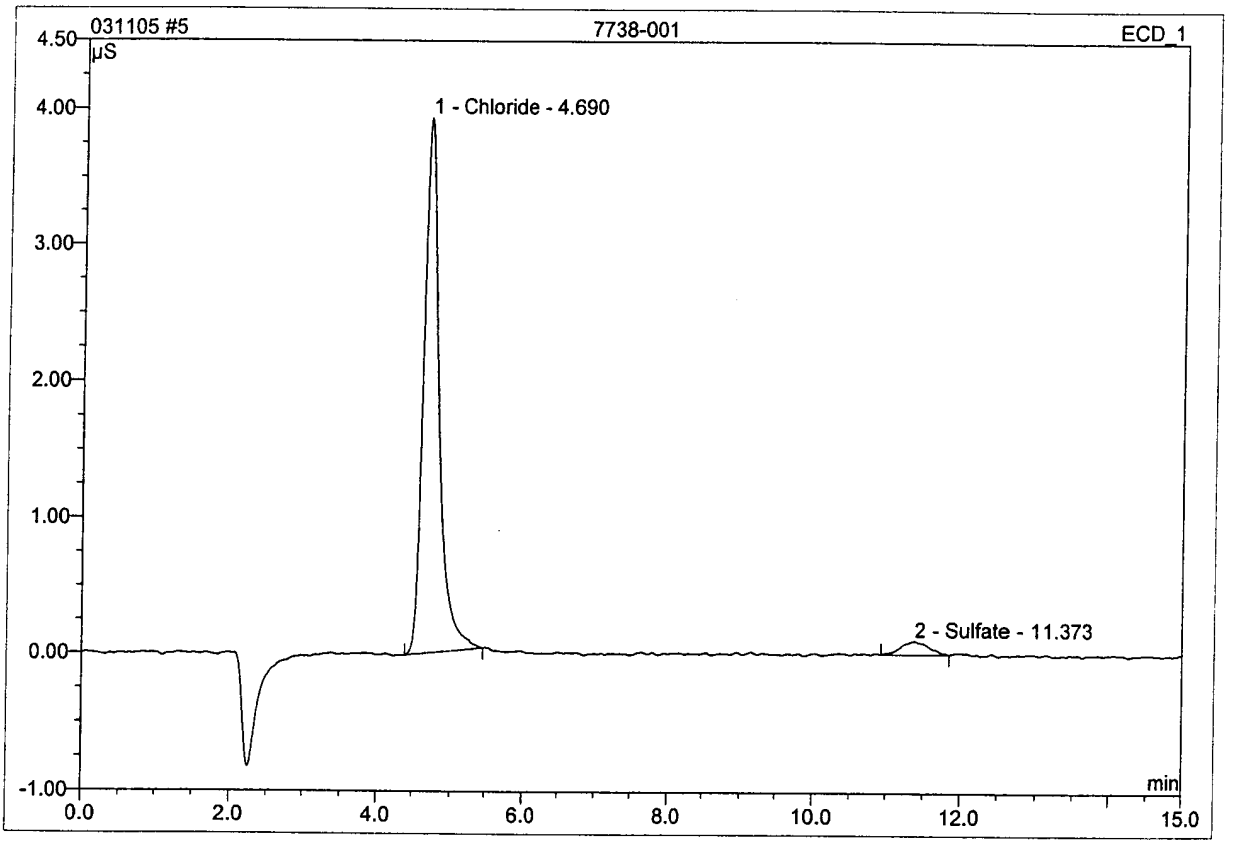
Sample Name:	**BKS**	*Injection Volume:*	**20.0**
Vial Number:	**4**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 11:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	5.033	1.157	35.81	10.009	BMB
2	7.72	Nitrate as N	3.821	1.309	40.52	5.435	BMB*
3	11.34	Sulfate	1.692	0.765	23.67	10.167	BMB
Total:			10.545	3.231	100.00	25.611	

5 7738-001

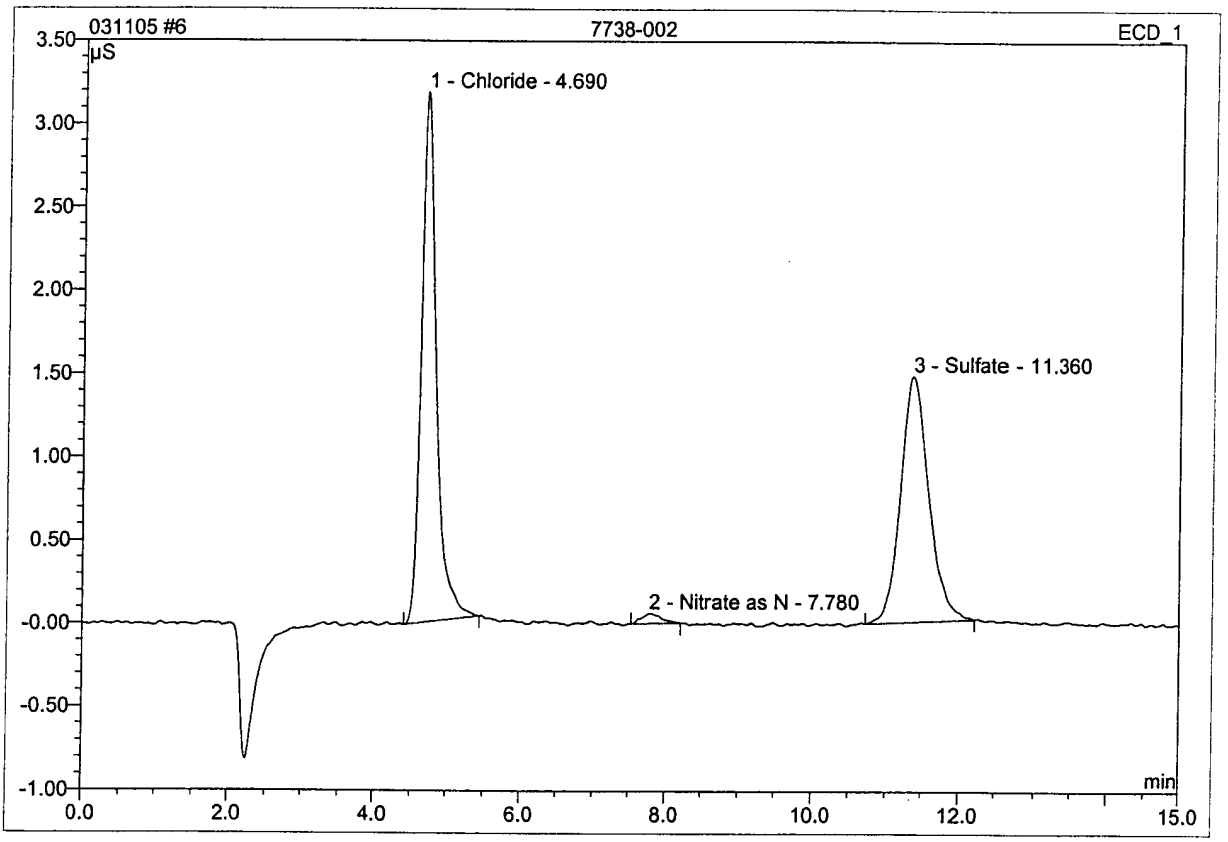
Sample Name:	**7738-001**	*Injection Volume:*	**20.0**
Vial Number:	**5**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 11:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	3.930	0.936	95.62	8.097	BMB
2	11.37	Sulfate	0.100	0.043	4.38	0.569	BMB
Total:			4.030	0.979	100.00	8.666	

6 7738-002

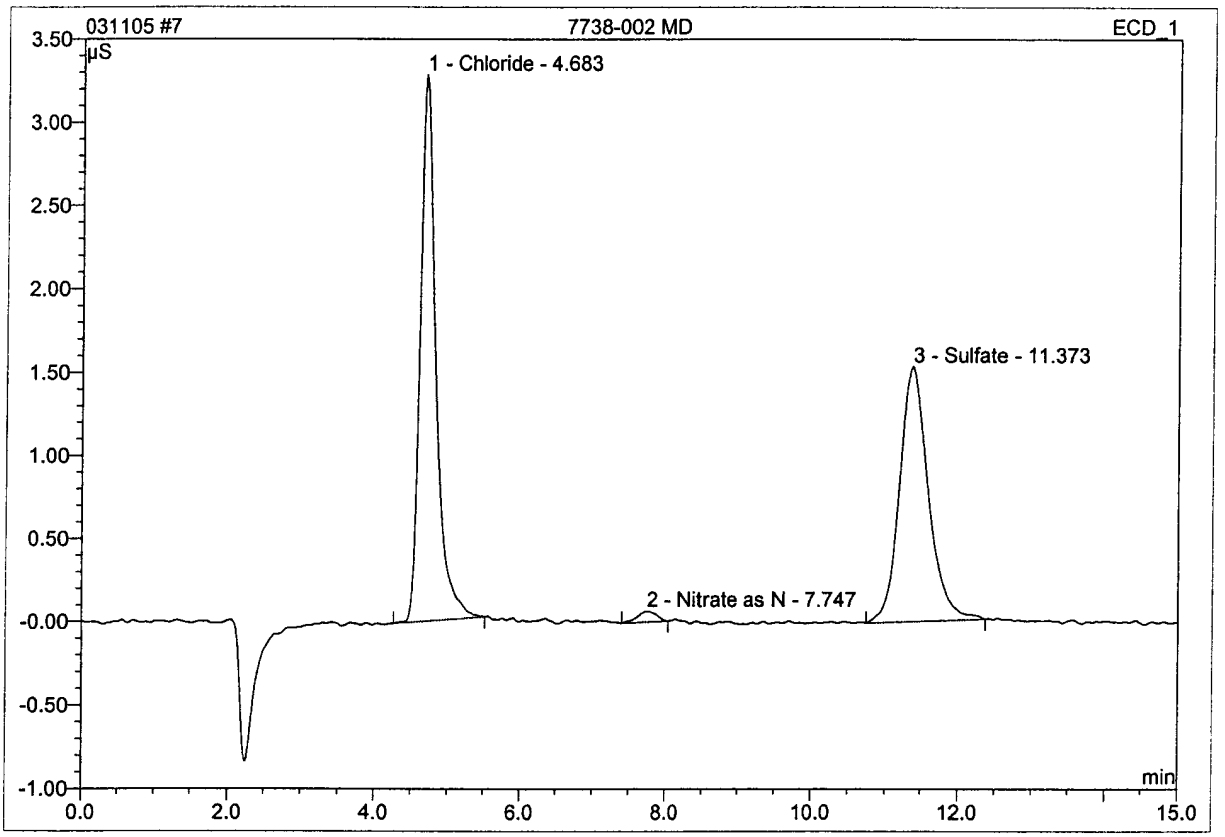
Sample Name:	**7738-002**	*Injection Volume:*	**20.0**
Vial Number:	**6**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 11:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	3.181	0.781	53.31	6.752	BMB
2	7.78	Nitrate as N	0.062	0.019	1.33	0.081	BMB
3	11.36	Sulfate	1.476	0.664	45.36	8.828	BMB
Total:			4.719	1.464	100.00	15.661	

7 7738-002 MD

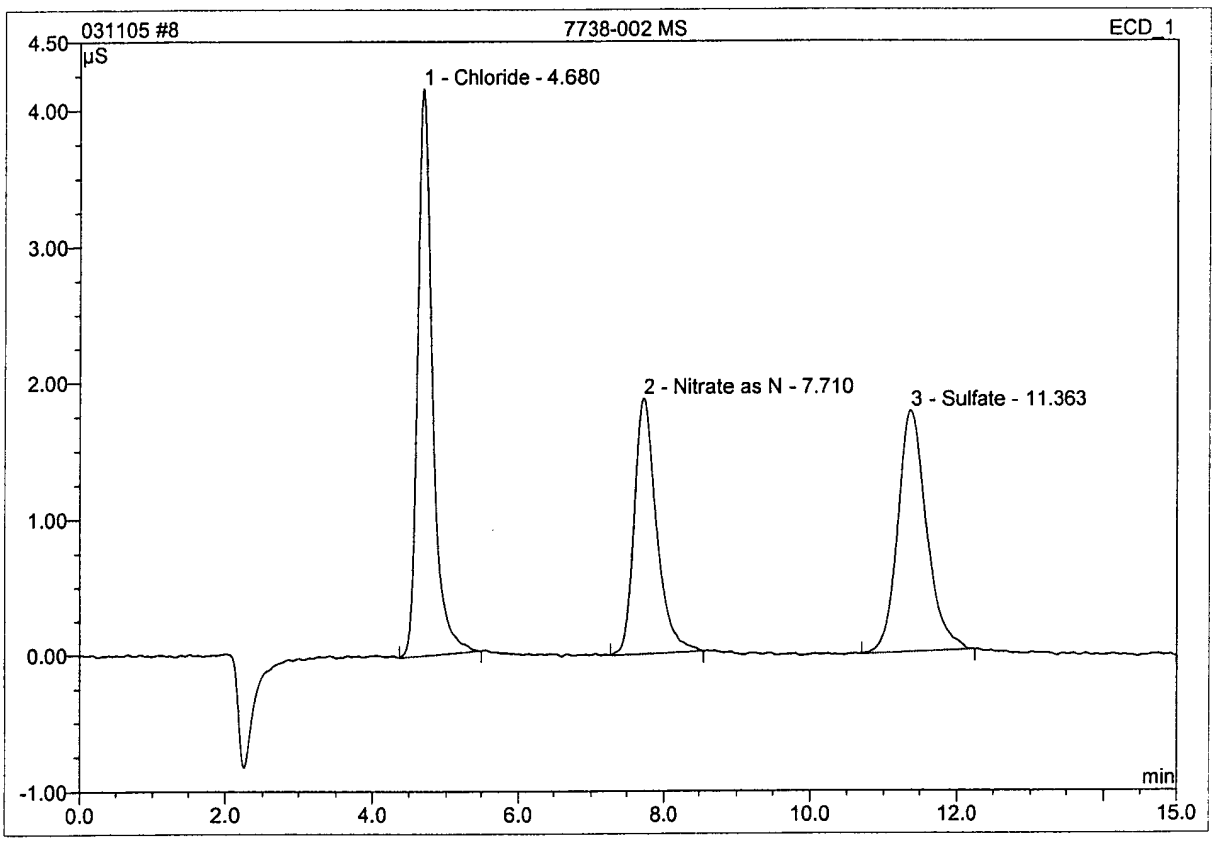
Sample Name:	**7738-002 MD**	*Injection Volume:*	**20.0**
Vial Number:	**7**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 11:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	3.281	0.806	52.65	6.973	BMB
2	7.75	Nitrate as N	0.066	0.020	1.30	0.083	BMB
3	11.37	Sulfate	1.531	0.705	46.04	9.370	BMB
Total:			4.878	1.531	100.00	16.426	

8 7738-002 MS

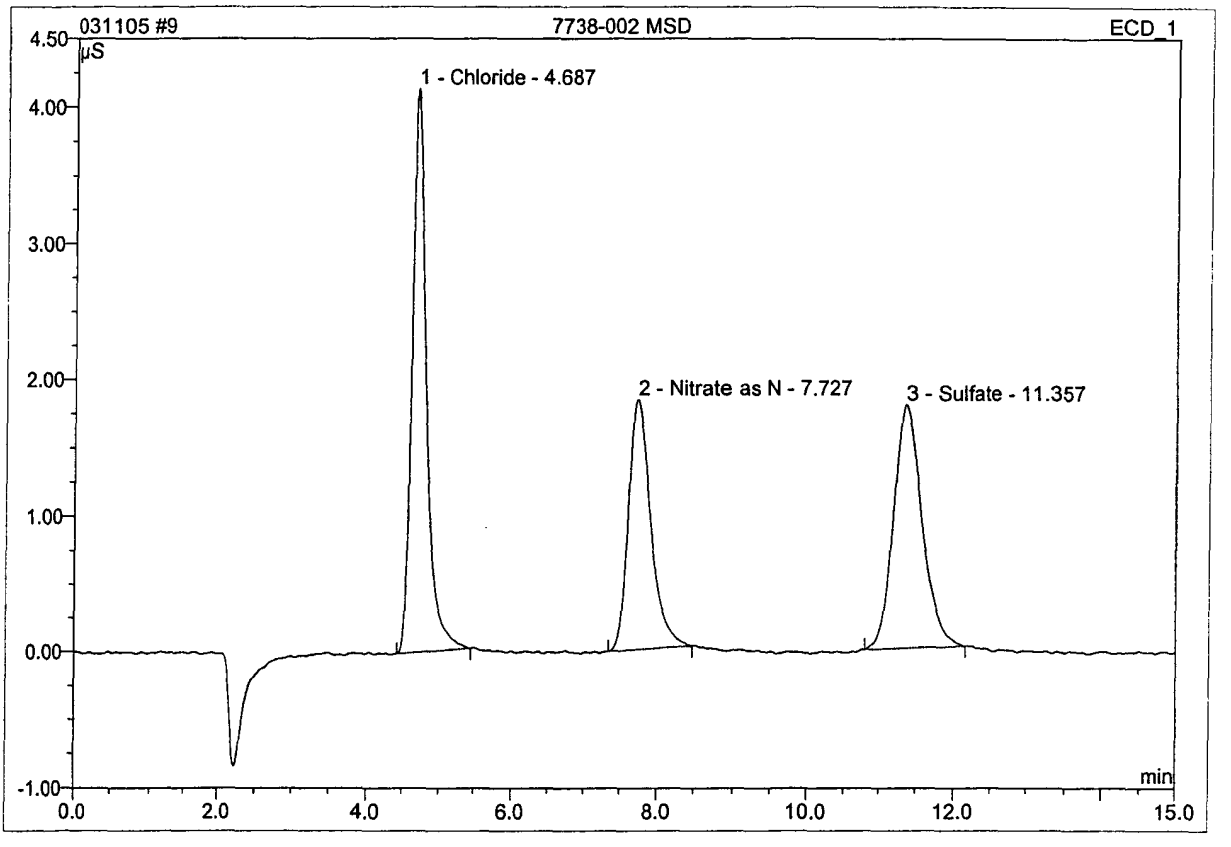
Sample Name:	**7738-002 MS**	*Injection Volume:*	**20.0**
Vial Number:	**8**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 12:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	4.159	0.967	39.81	8.362	BMB
2	7.71	Nitrate as N	1.876	0.659	27.14	2.736	BMB
3	11.36	Sulfate	1.774	0.802	33.05	10.666	BMB
Total:			7.809	2.428	100.00	21.764	

9 7738-002 MSD

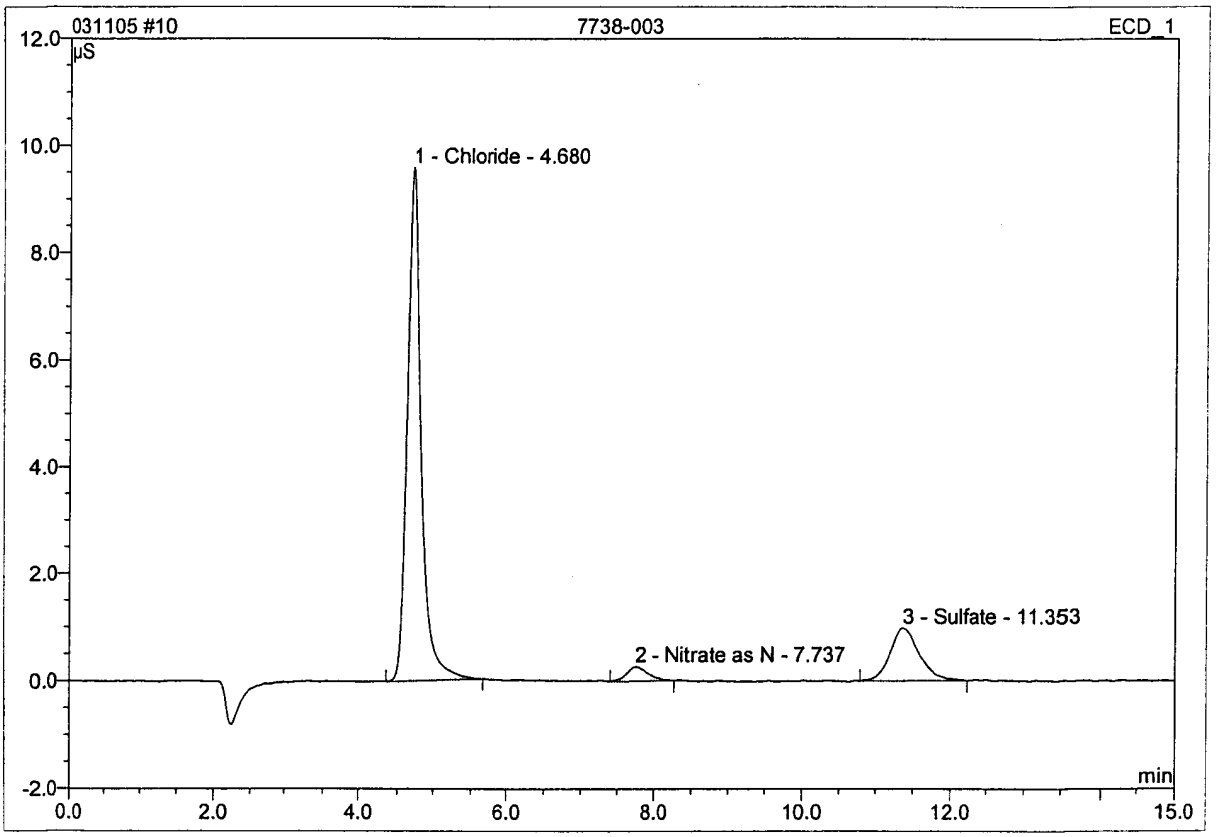
Sample Name:	**7738-002 MSD**	*Injection Volume:*	**20.0**
Vial Number:	**9**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 12:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	4.133	0.953	40.25	8.244	BMB
2	7.73	Nitrate as N	1.835	0.630	26.63	2.617	BMB
3	11.36	Sulfate	1.786	0.784	33.12	10.423	BMB
Total:			7.754	2.368	100.00	21.285	

10 7738-003

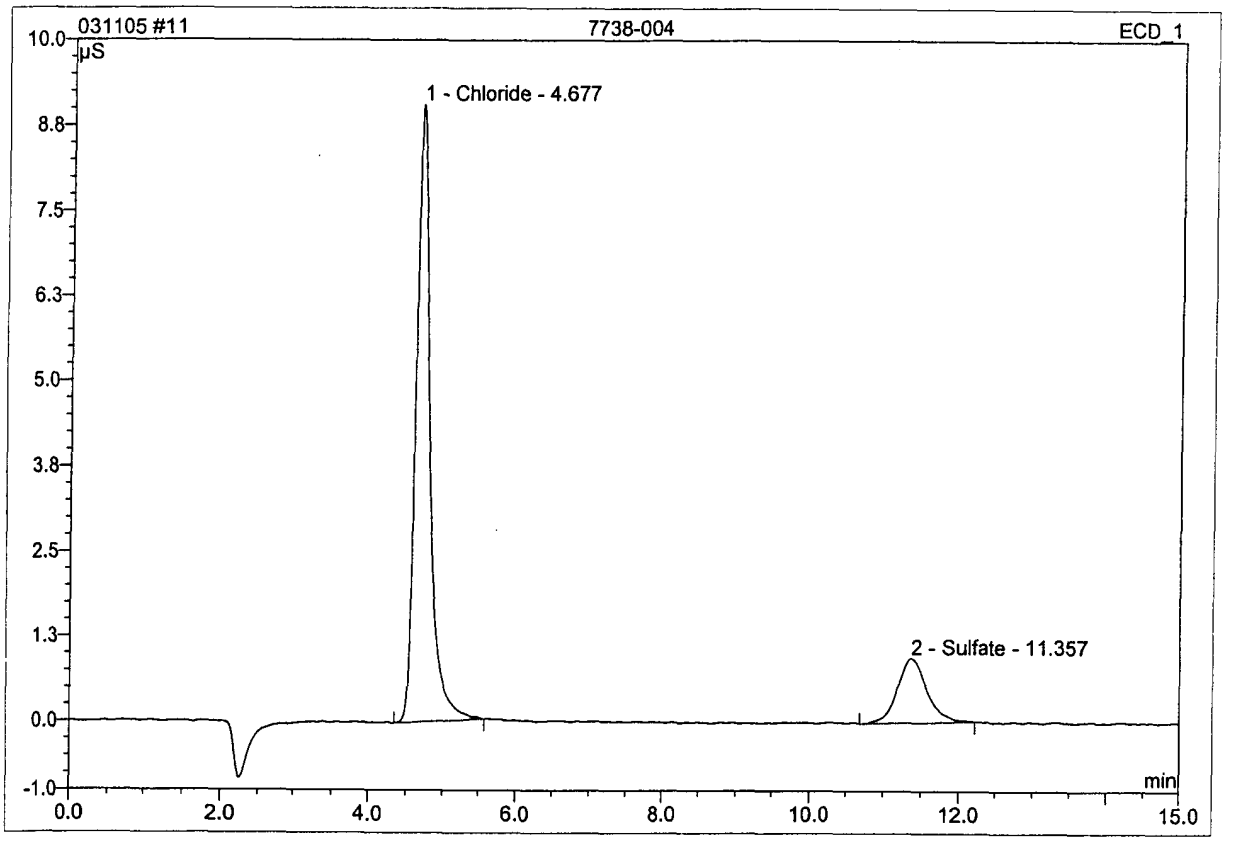
Sample Name:	**7738-003**	*Injection Volume:*	**20.0**
Vial Number:	**10**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 12:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	9.583	2.221	80.45	19.214	BMB
2	7.74	Nitrate as N	0.270	0.091	3.30	0.378	BMB
3	11.35	Sulfate	0.984	0.449	16.25	5.963	BMB
Total:			10.838	2.761	100.00	25.555	

11 7738-004

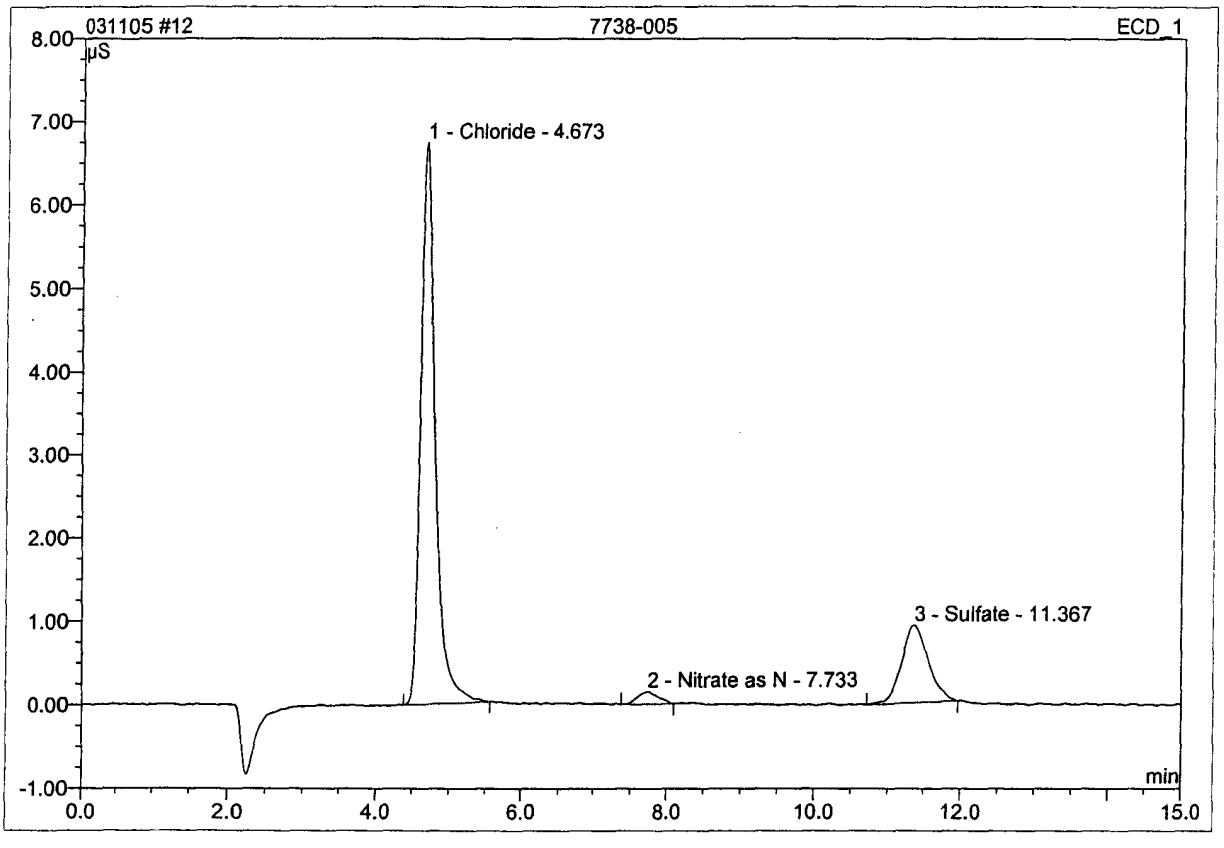
Sample Name:	**7738-004**	*Injection Volume:*	**20.0**
Vial Number:	**11**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 13:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	9.059	2.063	82.48	17.846	BMB
2	11.36	Sulfate	0.946	0.438	17.52	5.824	BMB
Total:			10.006	2.501	100.00	23.670	

12 7738-005

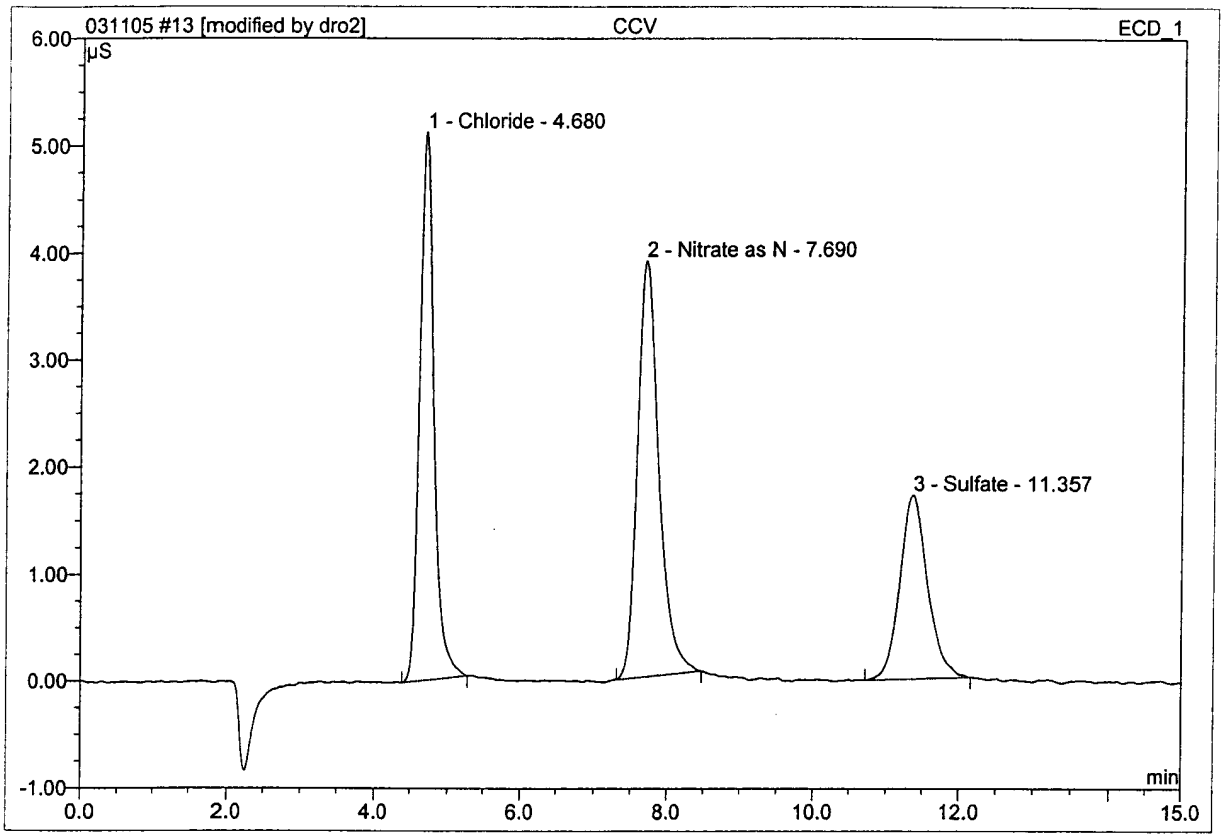
Sample Name:	**7738-005**	*Injection Volume:*	**20.0**
Vial Number:	**12**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 13:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.67	Chloride	6.738	1.539	77.30	13.314	BMB
2	7.73	Nitrate as N	0.148	0.048	2.43	0.201	BMB
3	11.37	Sulfate	0.931	0.404	20.27	5.364	BMB
Total:			7.817	1.991	100.00	18.878	

13 CCV

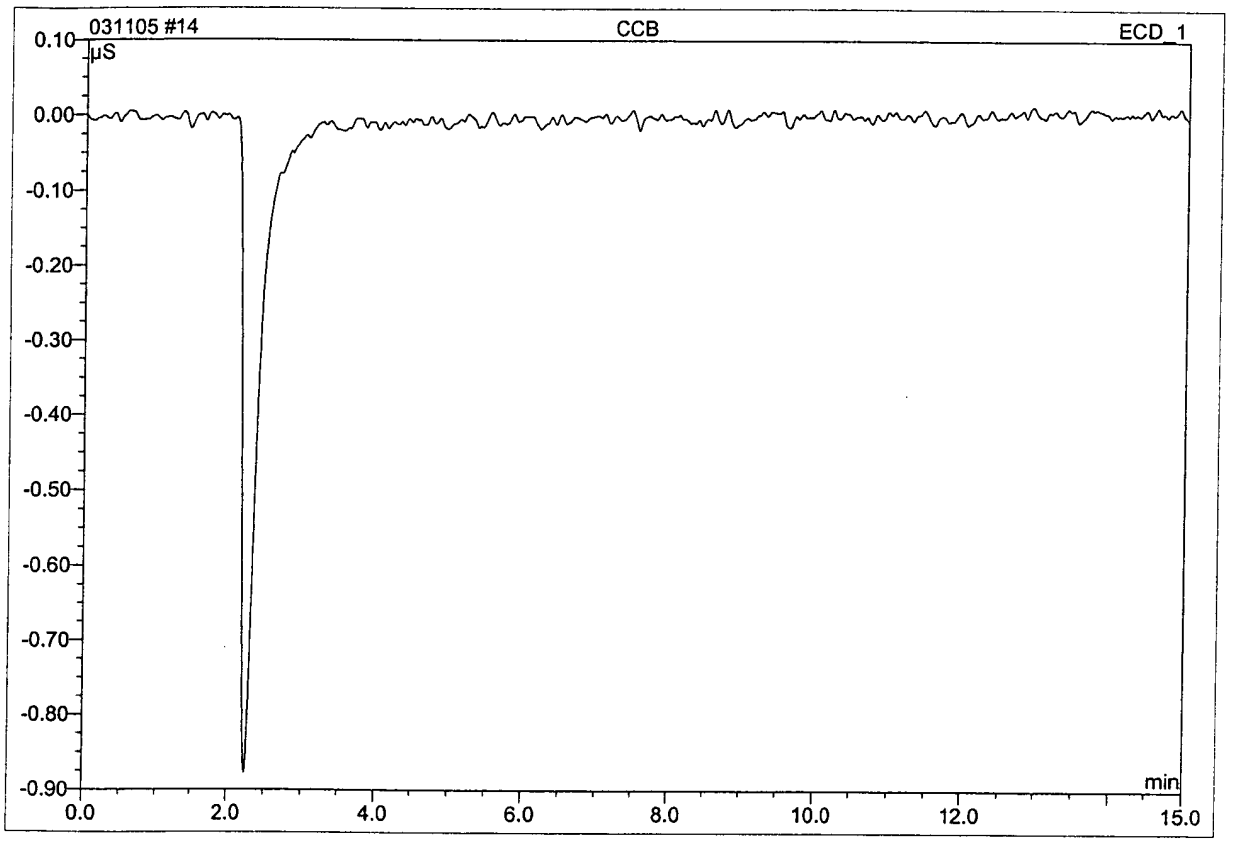
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**13**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 13:43**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	5.116	1.125	35.21	9.731	BMB
2	7.69	Nitrate as N	3.882	1.314	41.11	5.453	BMB*
3	11.36	Sulfate	1.717	0.757	23.68	10.057	BMB
Total:			10.715	3.195	100.00	25.241	

14 CCB

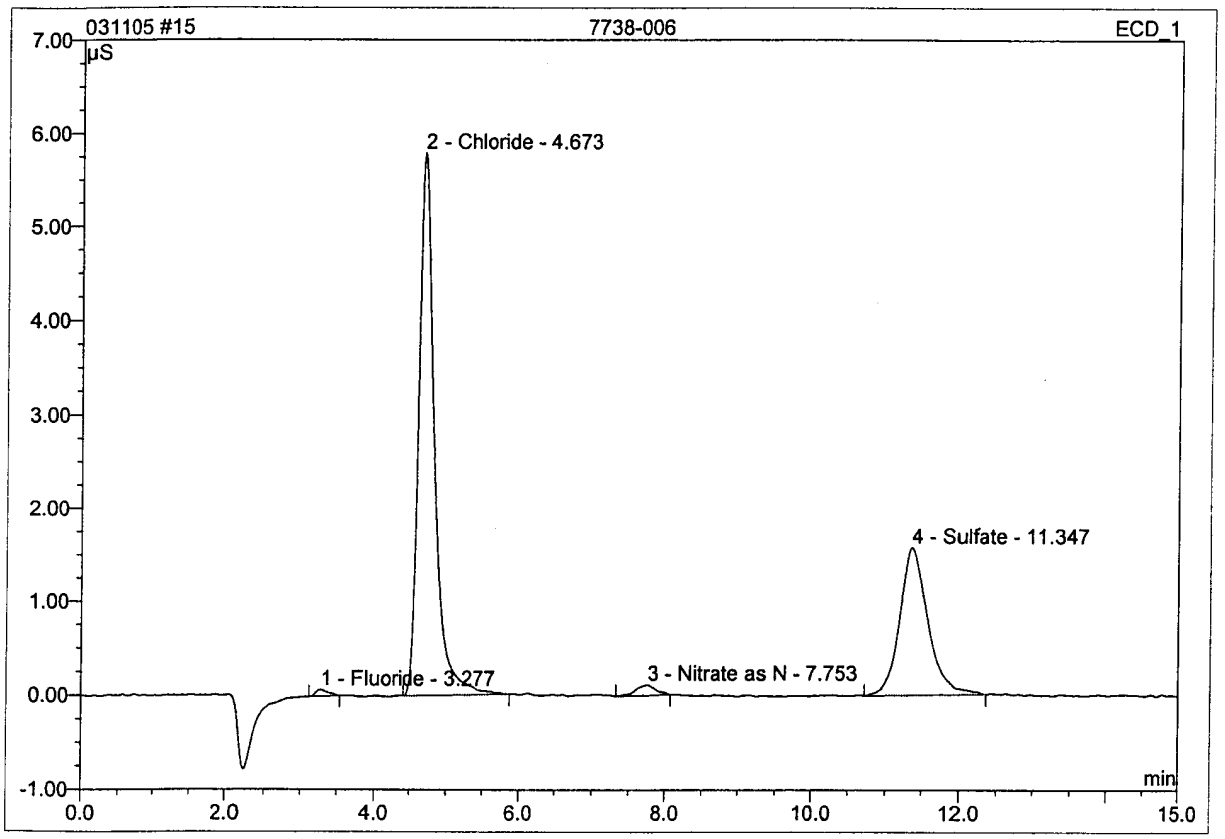
Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**14**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 14:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

15 7738-006

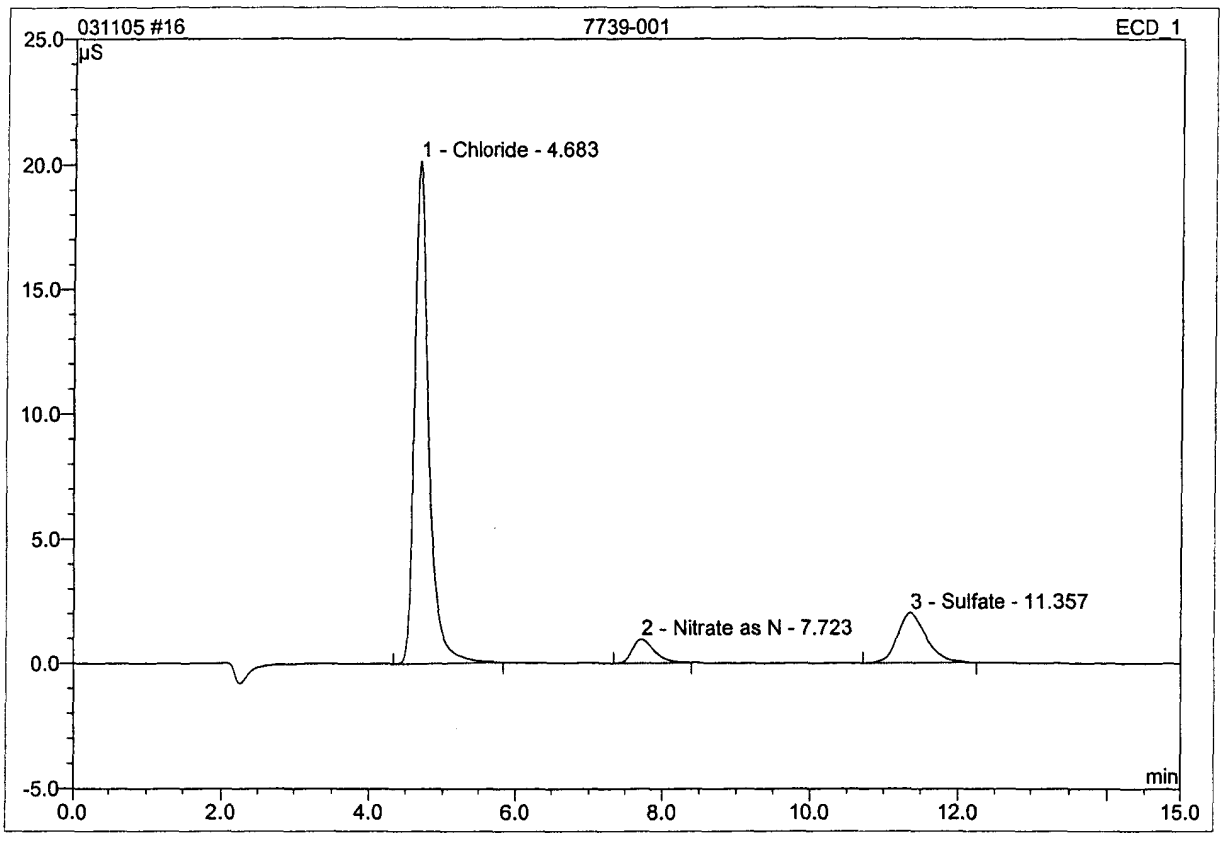
Sample Name:	**7738-006**	*Injection Volume:*	**20.0**
Vial Number:	**15**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 14:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.28	Fluoride	0.068	0.014	0.63	0.084	BMB
2	4.67	Chloride	5.789	1.430	65.26	12.373	BMB
3	7.75	Nitrate as N	0.110	0.036	1.63	0.148	BMB
4	11.35	Sulfate	1.577	0.712	32.48	9.464	BMB
Total:			7.545	2.192	100.00	22.070	

16 7739-001

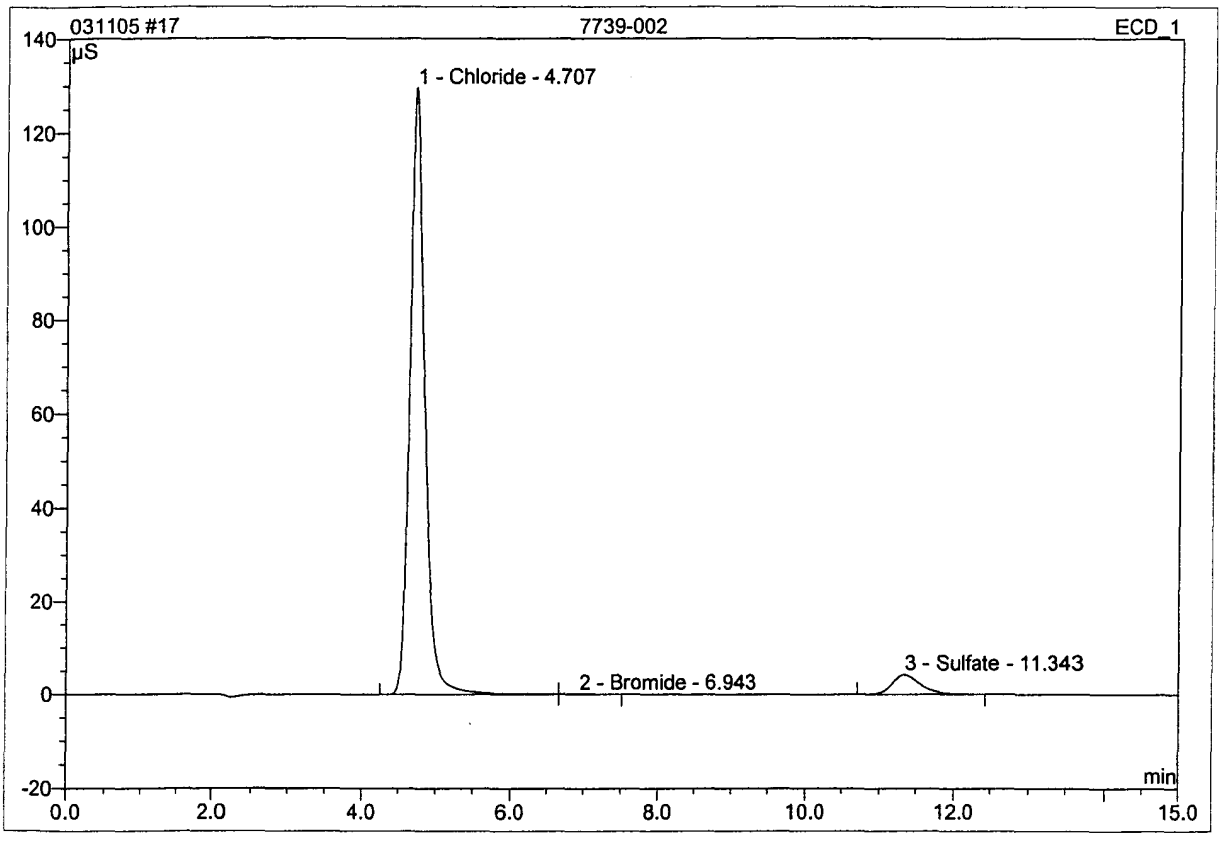
Sample Name:	**7739-001**	*Injection Volume:*	**20.0**
Vial Number:	**16**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	20.126	4.520	78.69	39.100	BMB
2	7.72	Nitrate as N	0.958	0.332	5.77	1.376	BMB
3	11.36	Sulfate	2.001	0.893	15.54	11.863	BMB
Total:			23.085	5.744	100.00	52.340	

17 7739-002

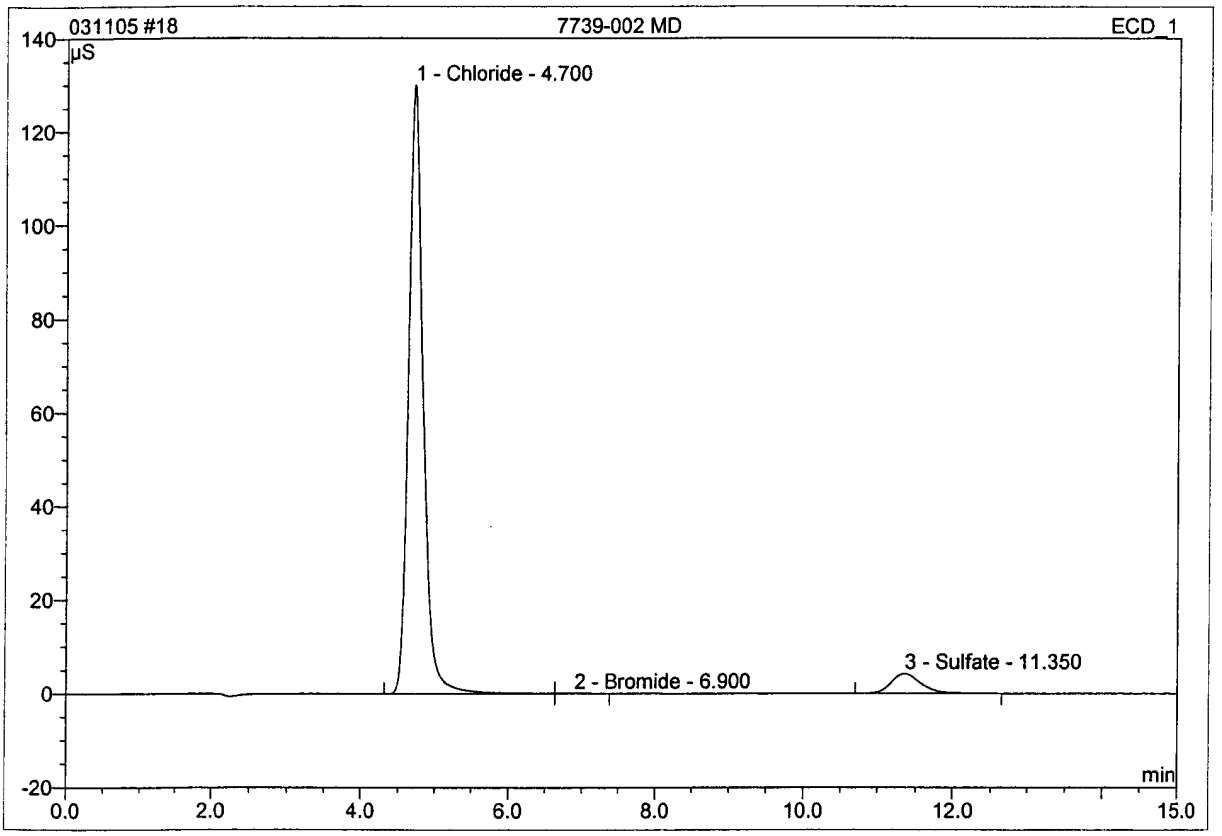
Sample Name:	**7739-002**	*Injection Volume:*	**20.0**
Vial Number:	**17**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 14:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.71	Chloride	129.465	30.560	93.99	264.334	BM
2	6.94	Bromide	0.150	0.065	0.20	1.648	MB
3	11.34	Sulfate	4.216	1.891	5.82	25.132	BMB
Total:			133.831	32.515	100.00	291.114	

18 7739-002 MD

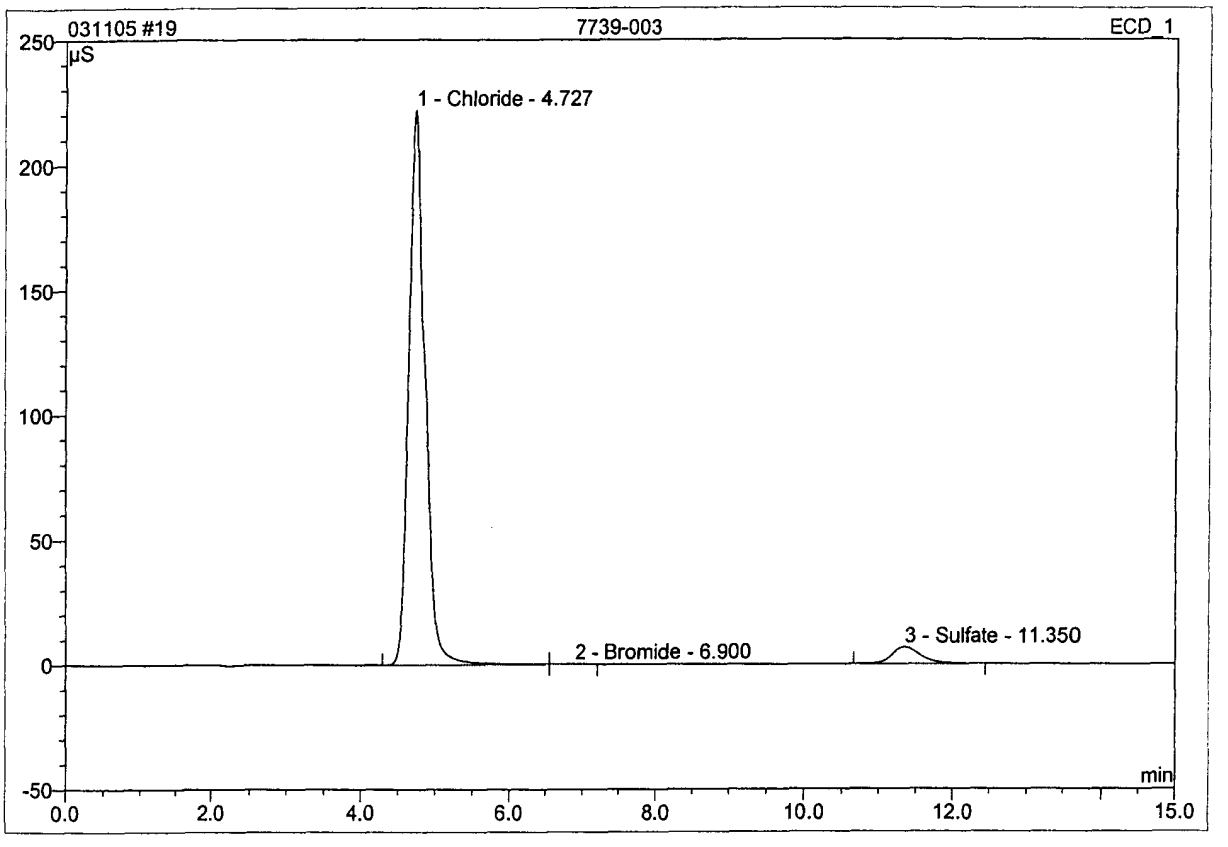
Sample Name:	**7739-002 MD**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 15:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.70	Chloride	129.994	30.537	93.91	264.136	BM
2	6.90	Bromide	0.162	0.063	0.19	1.587	MB
3	11.35	Sulfate	4.252	1.917	5.90	25.479	BMB
Total:			134.407	32.516	100.00	291.202	

19 7739-003

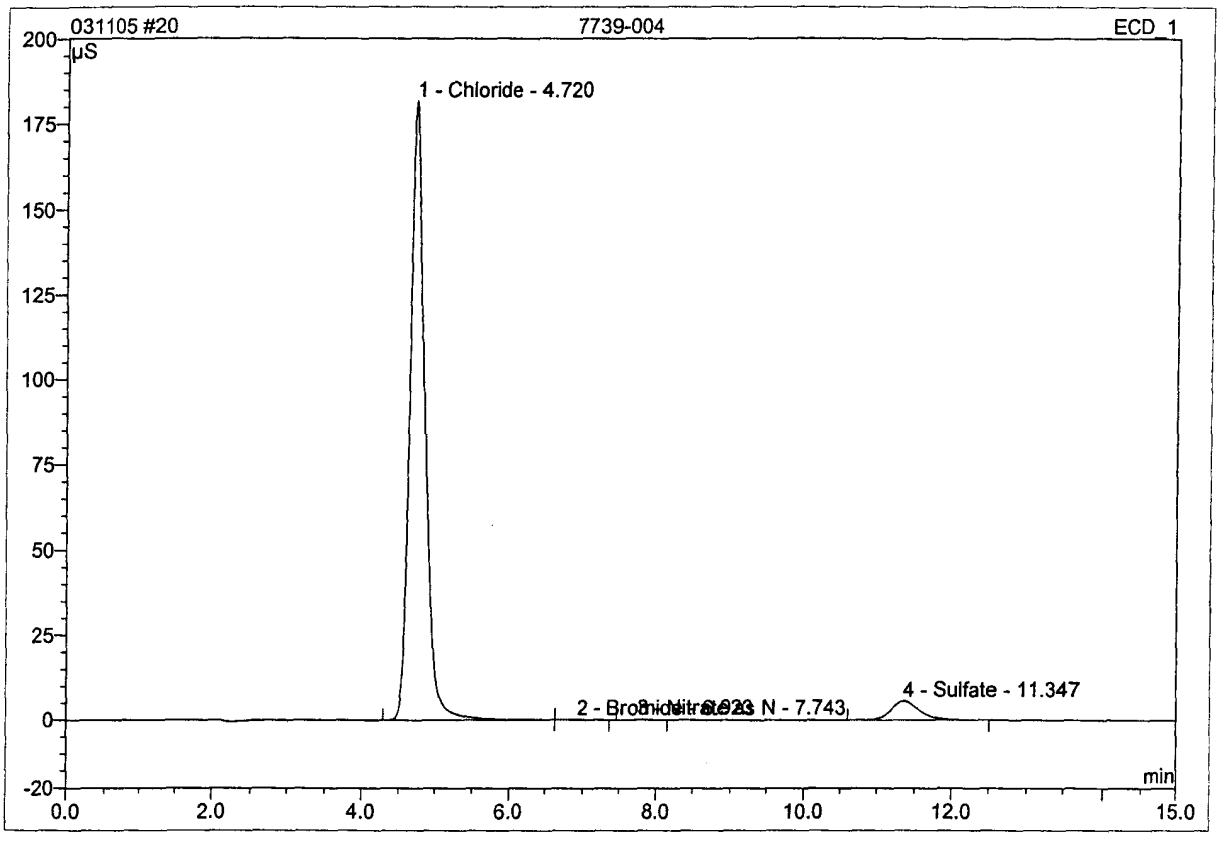
Sample Name:	**7739-003**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 15:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.73	Chloride	222.026	56.614	94.95	489.700	BMB
2	6.90	Bromide	0.149	0.041	0.07	1.051	bMB
3	11.35	Sulfate	6.706	2.973	4.99	39.511	BMB
Total:			228.882	59.628	100.00	530.261	

20 7739-004

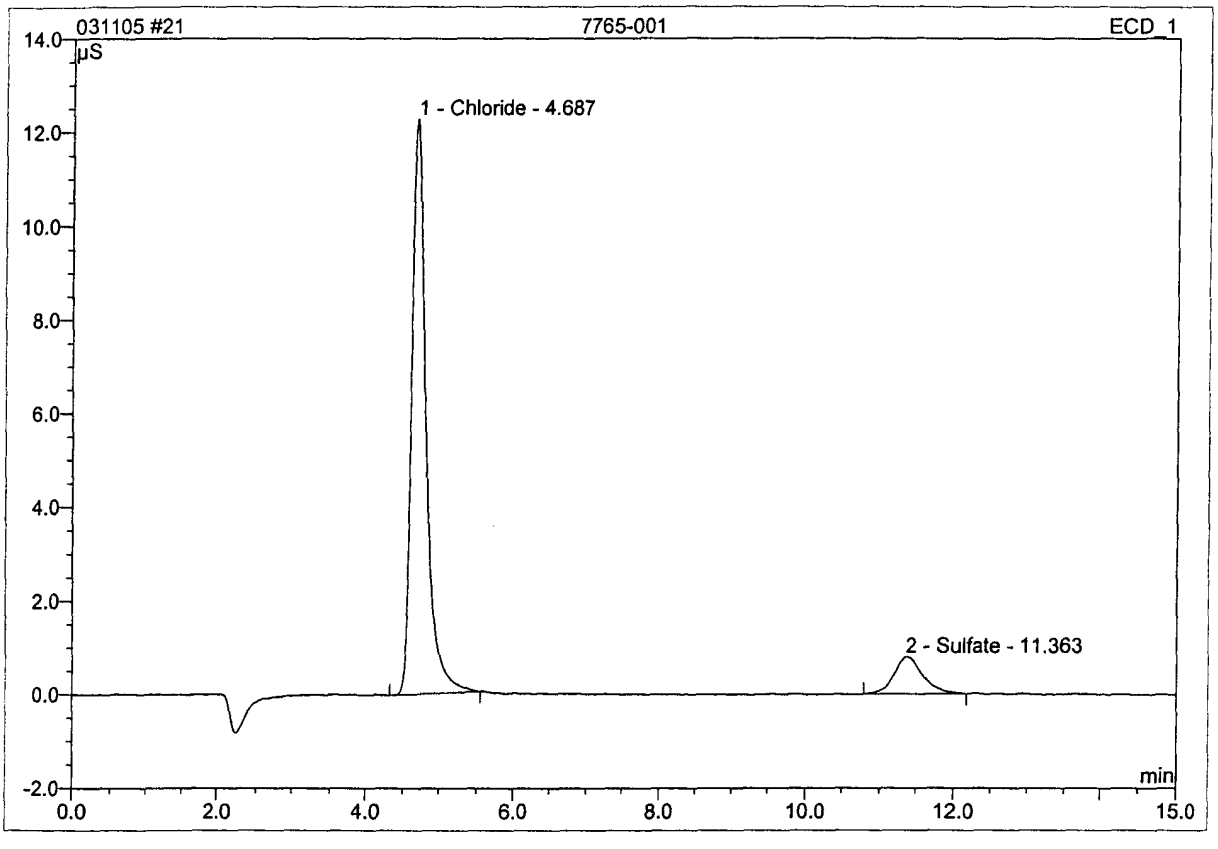
Sample Name:	**7739-004**	*Injection Volume:*	**20.0**
Vial Number:	**20**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 15:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.72	Chloride	181.455	43.761	94.39	378.528	BMB
2	6.92	Bromide	0.121	0.032	0.07	0.820	bMB
3	7.74	Nitrate as N	0.187	0.058	0.12	0.239	BMB
4	11.35	Sulfate	5.587	2.509	5.41	33.344	BMB
Total:			187.350	46.360	100.00	412.931	

21 7765-001

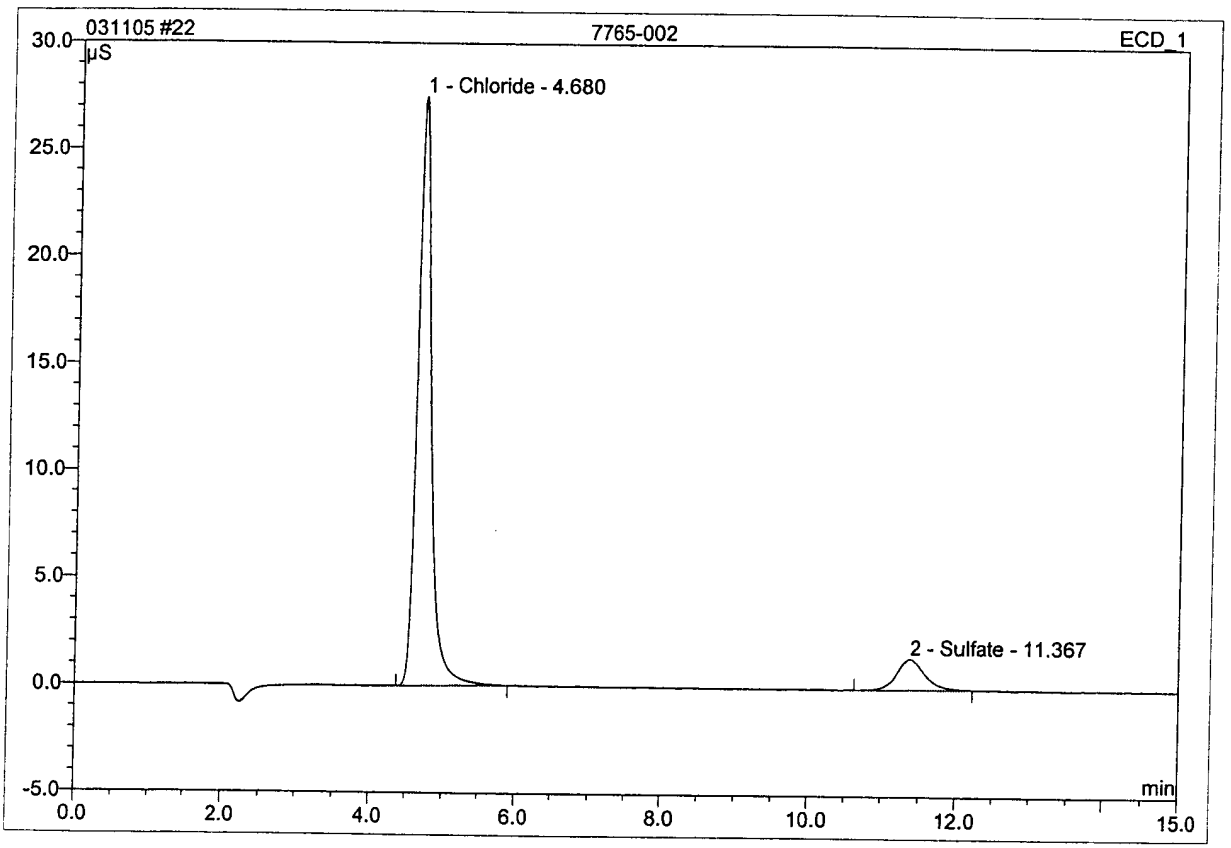
Sample Name:	**7765-001**	*Injection Volume:*	**20.0**
Vial Number:	**21**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 16:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	12.259	2.840	88.72	24.570	BMB
2	11.36	Sulfate	0.790	0.361	11.28	4.798	BMB
Total:			13.049	3.202	100.00	29.368	

22 7765-002

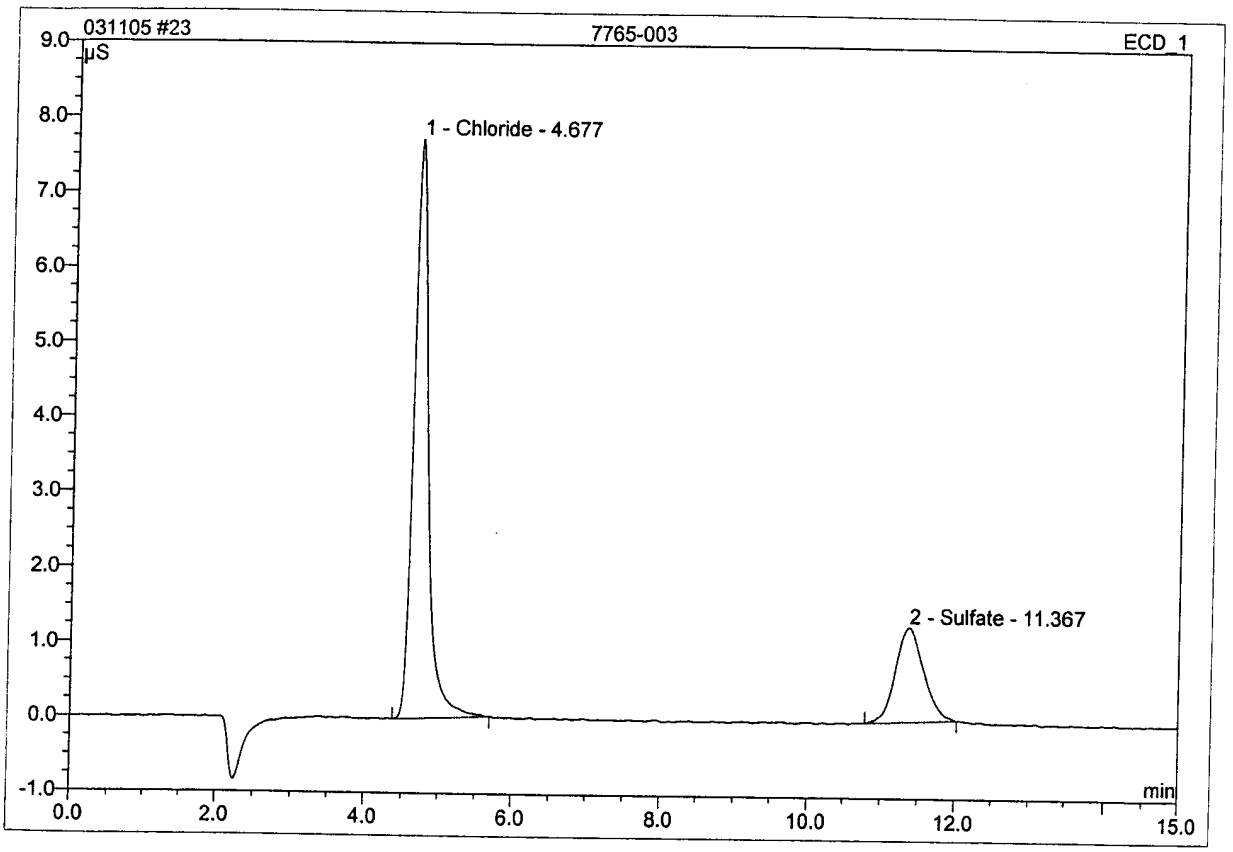
Sample Name:	**7765-002**	*Injection Volume:*	**20.0**
Vial Number:	**22**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 16:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	27.492	6.056	90.28	52.387	BMB
2	11.37	Sulfate	1.447	0.652	9.72	8.671	BMB
Total:			28.939	6.709	100.00	61.058	

23 7765-003

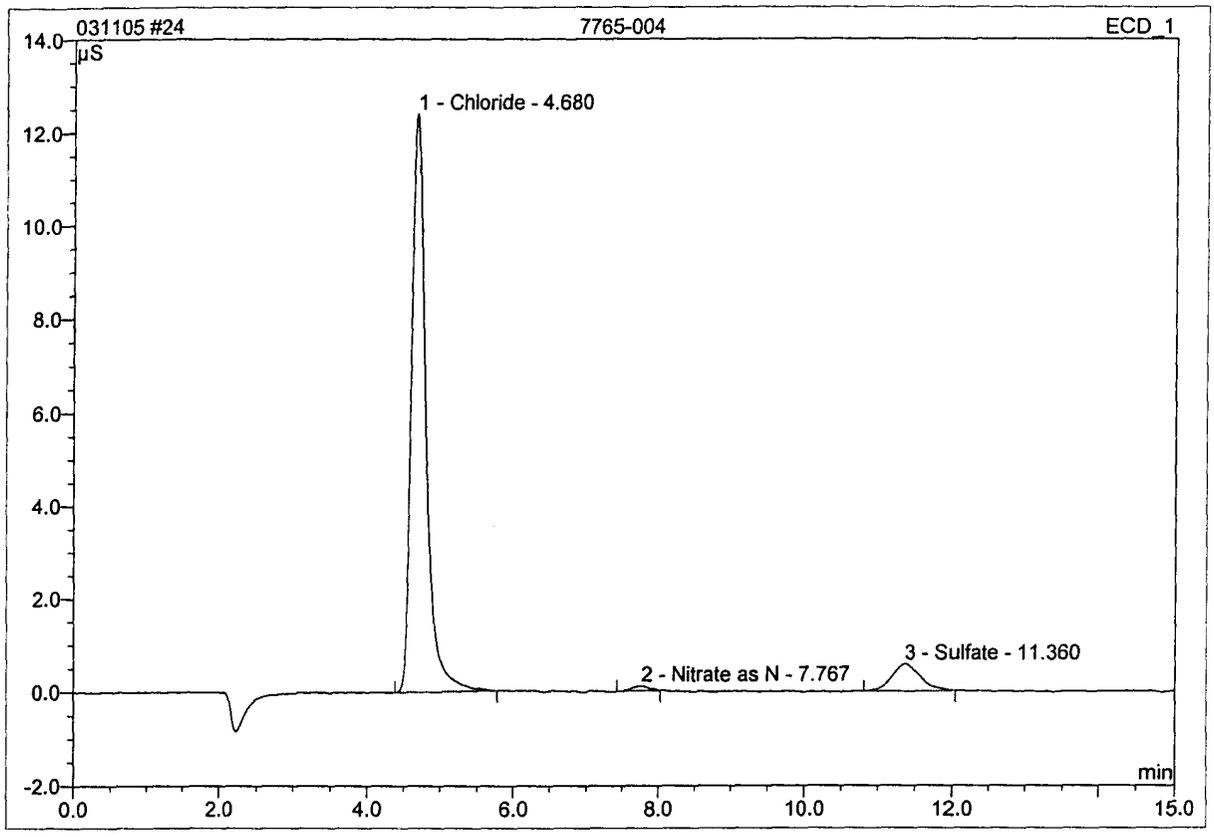
Sample Name:	**7765-003**	*Injection Volume:*	**20.0**
Vial Number:	**23**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 16:37**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	7.722	1.808	76.37	15.641	BMB
2	11.37	Sulfate	1.266	0.559	23.63	7.436	BMB
Total:			8.988	2.368	100.00	23.077	

24 7765-004

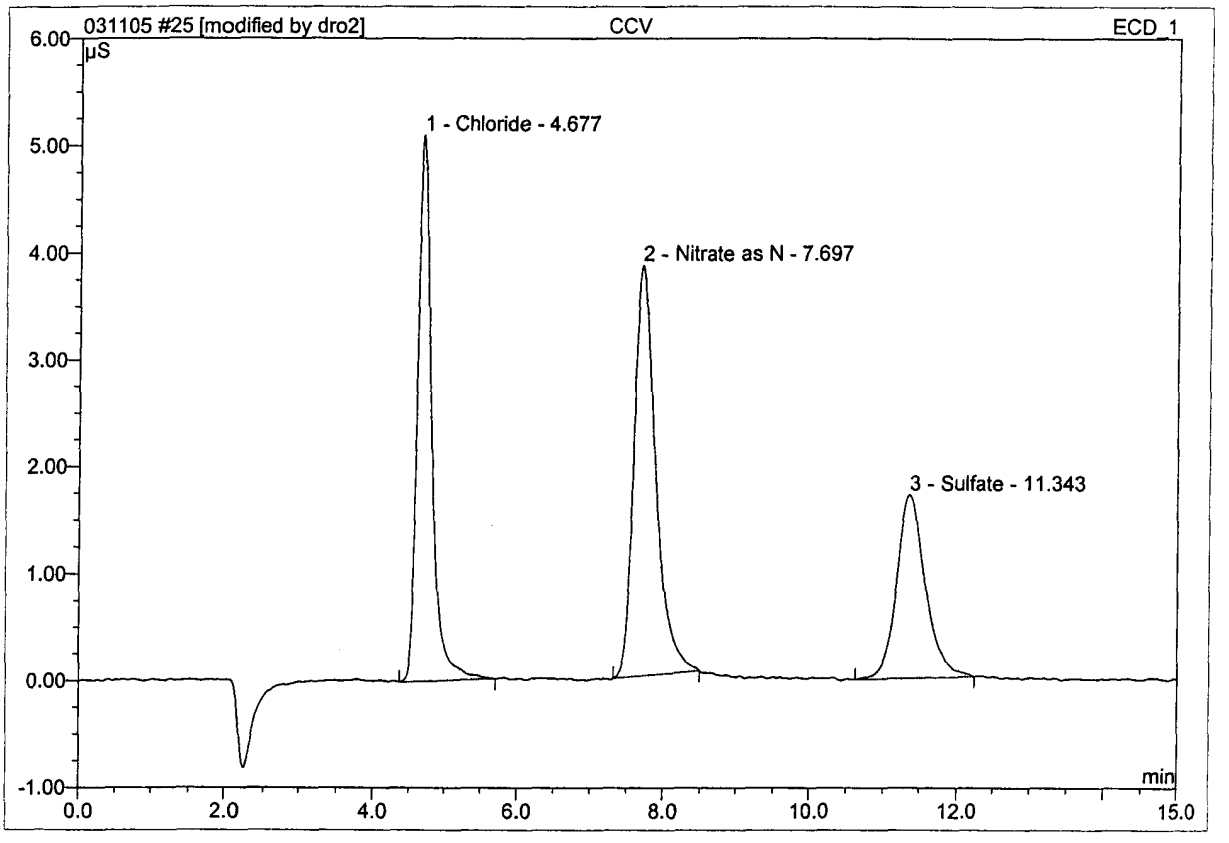
Sample Name:	**7765-004**	*Injection Volume:*	**20.0**
Vial Number:	**24**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 16:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	12.402	2.799	90.53	24.208	BMB
2	7.77	Nitrate as N	0.104	0.030	0.96	0.123	BMB
3	11.36	Sulfate	0.580	0.263	8.51	3.497	BMB
Total:			13.087	3.091	100.00	27.828	

25 CCV

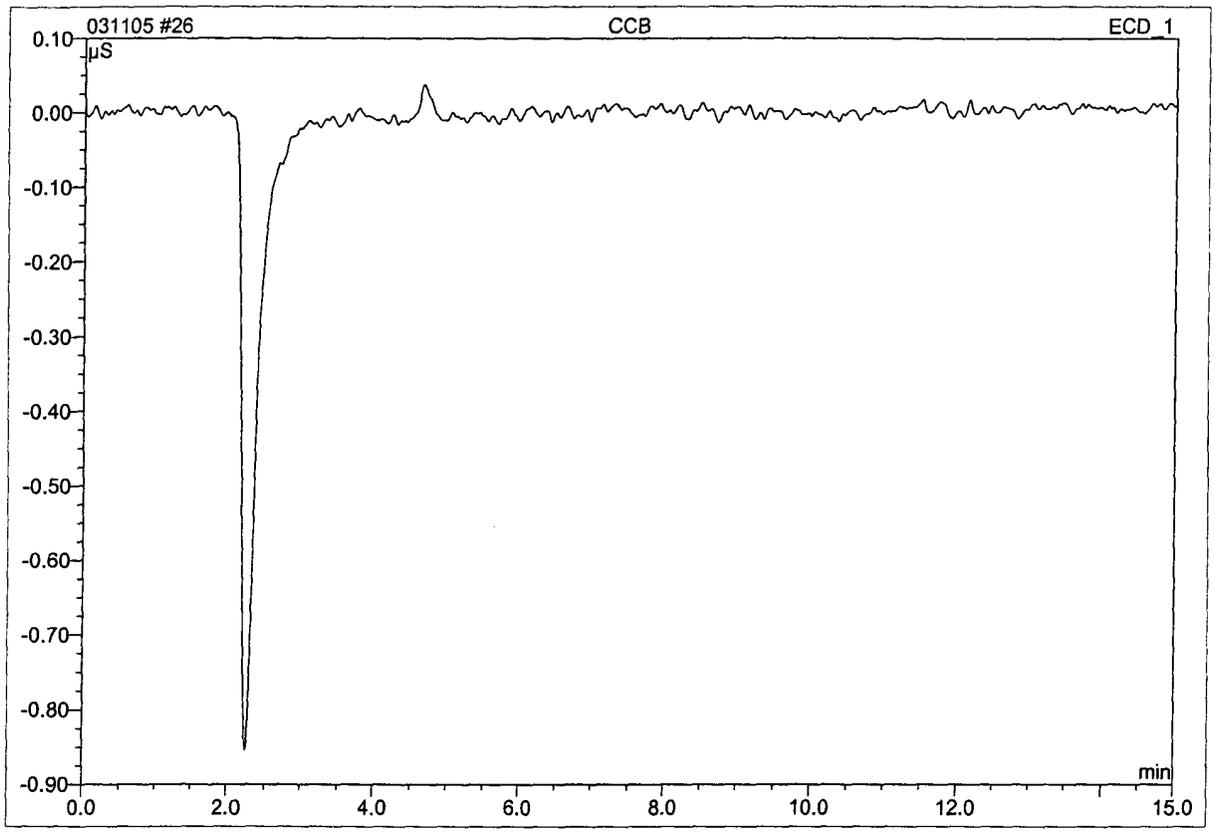
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**25**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 17:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	5.100	1.175	35.81	10.159	BMB
2	7.70	Nitrate as N	3.836	1.323	40.34	5.493	BMB*
3	11.34	Sulfate	1.716	0.782	23.85	10.398	BMB
Total:			10.653	3.280	100.00	26.050	

26 CCB

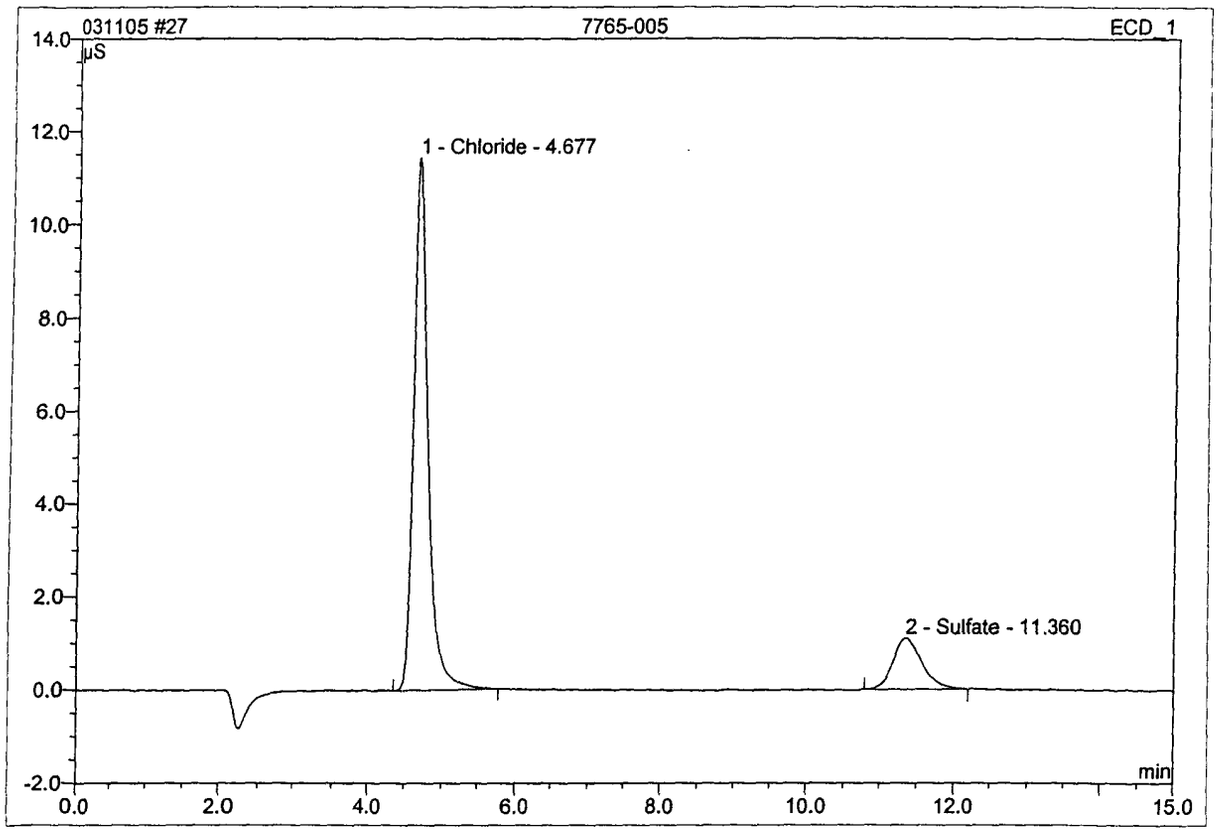
Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**26**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 17:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

27 7765-005

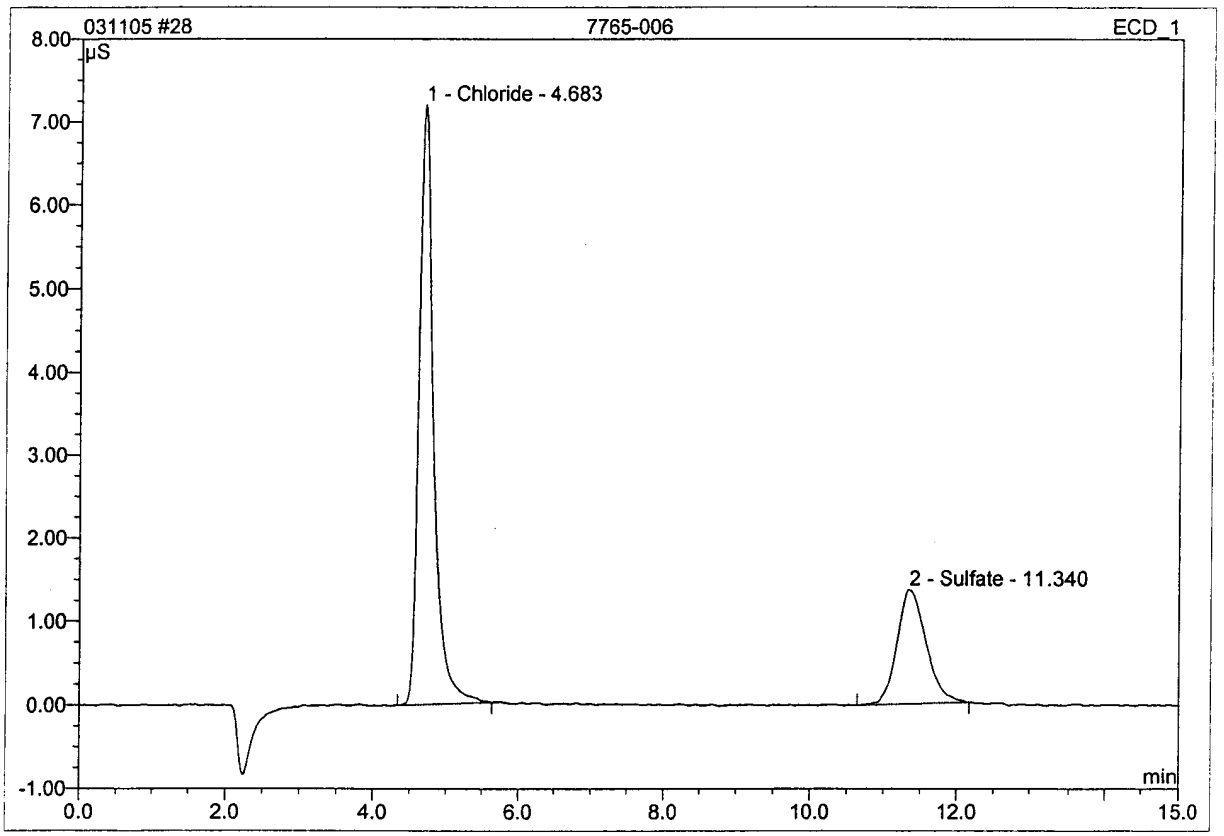
Sample Name:	**7765-005**	*Injection Volume:*	**20.0**
Vial Number:	**27**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 17:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	11.430	2.613	84.22	22.604	BMB
2	11.36	Sulfate	1.097	0.489	15.78	6.505	BMB
Total:			12.527	3.103	100.00	29.109	

28 7765-006

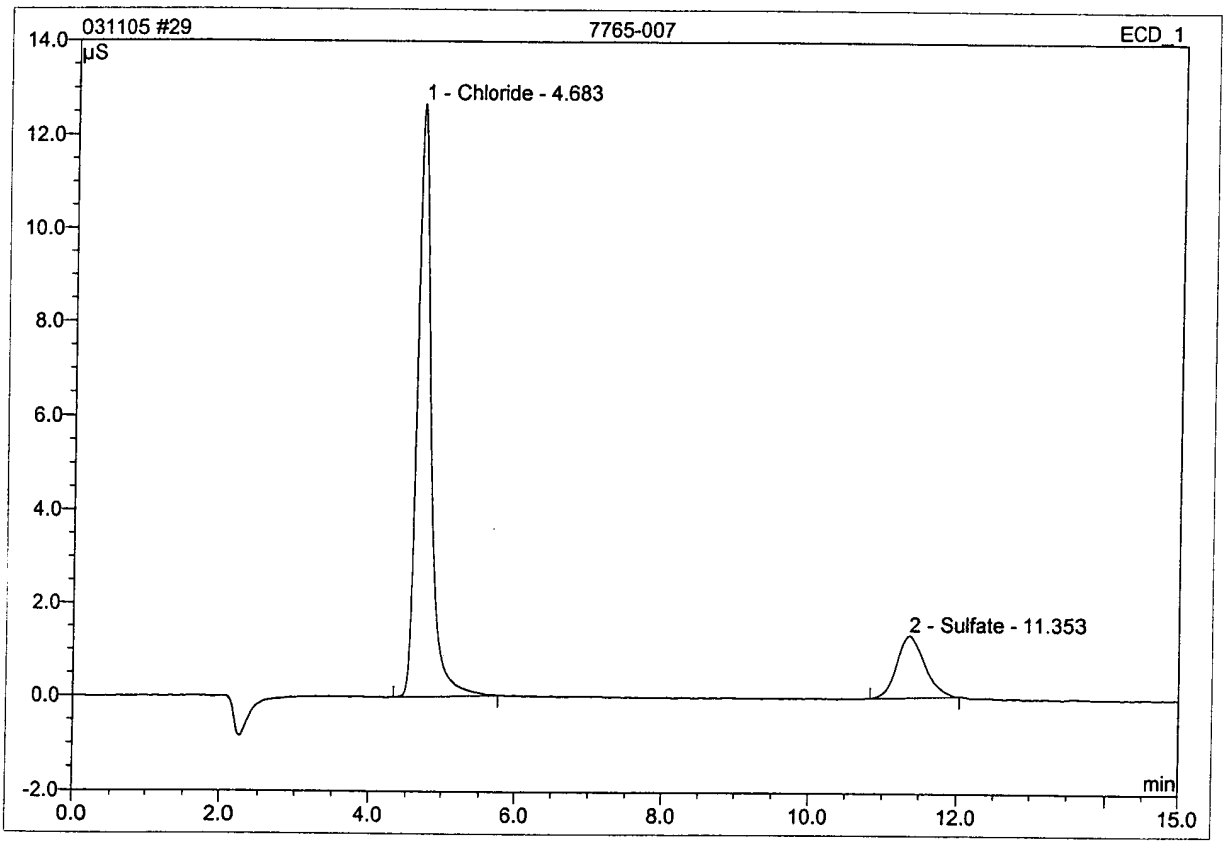
Sample Name:	**7765-006**	*Injection Volume:*	**20.0**
Vial Number:	**28**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 18:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	7.191	1.691	73.18	14.627	BMB
2	11.34	Sulfate	1.366	0.620	26.82	8.239	BMB
Total:			8.557	2.311	100.00	22.866	

29 7765-007

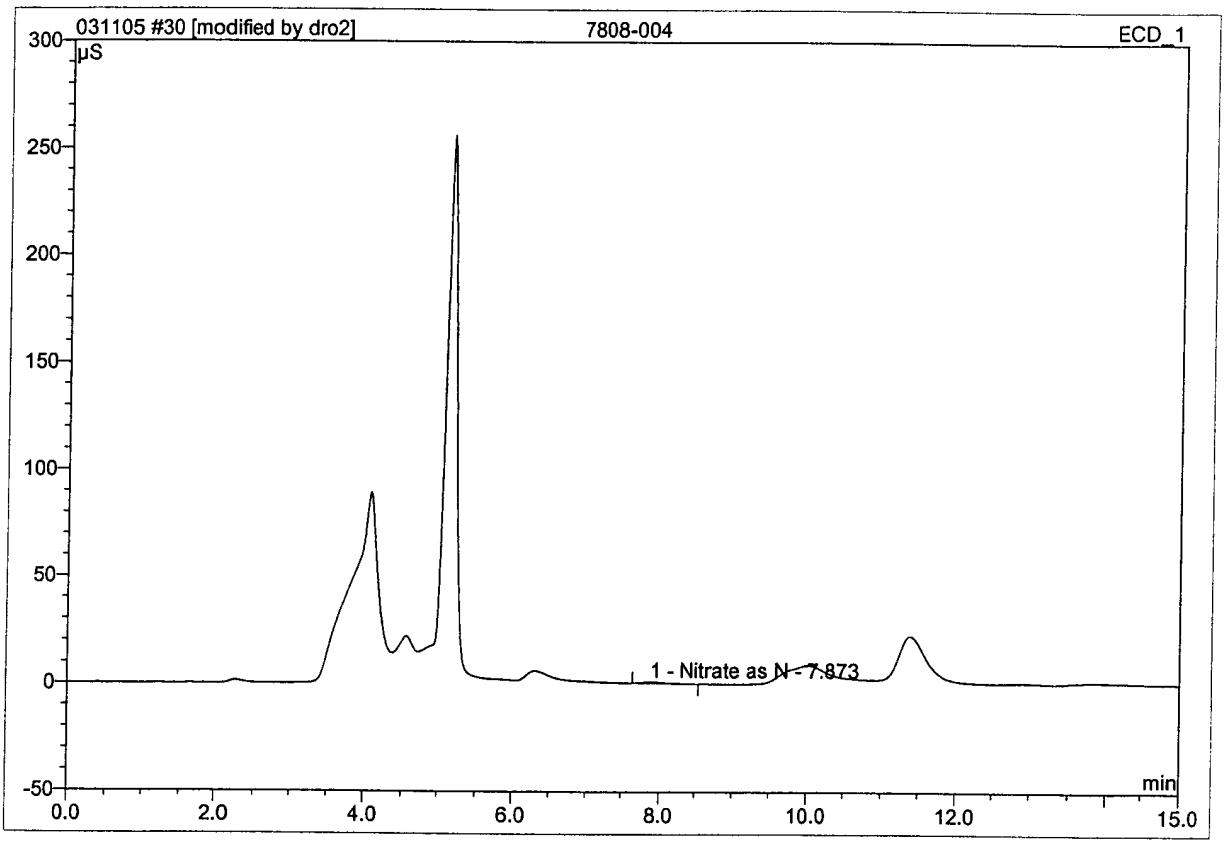
Sample Name:	**7765-007**	*Injection Volume:*	**20.0**
Vial Number:	**29**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 18:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	12.660	2.851	83.08	24.659	BMB
2	11.35	Sulfate	1.328	0.581	16.92	7.718	BMB
Total:			13.988	3.432	100.00	32.377	

30 7808-004

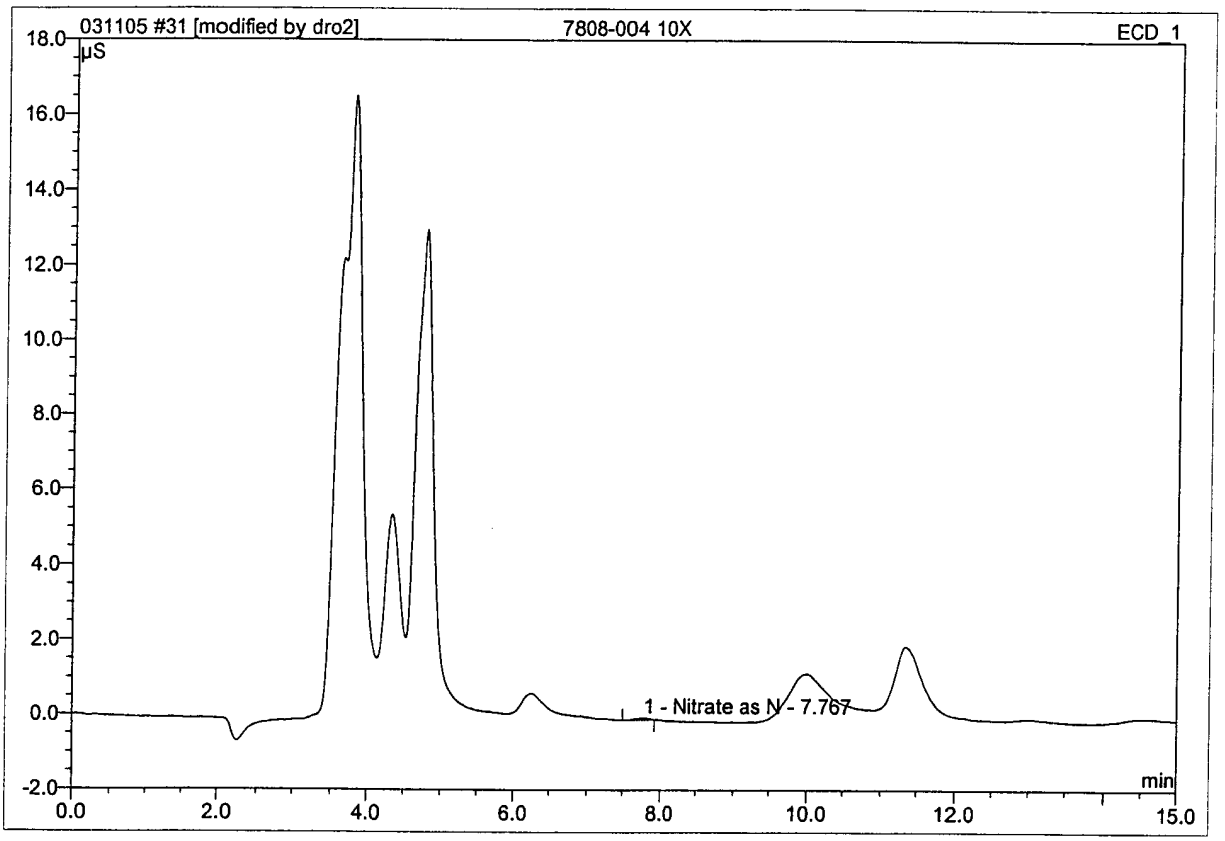
Sample Name:	**7808-004**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 18:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	7.87	Nitrate as N	0.589	0.176	100.00	0.732	BMB*
Total:			0.589	0.176	100.00	0.732	

31 7808-004 10X

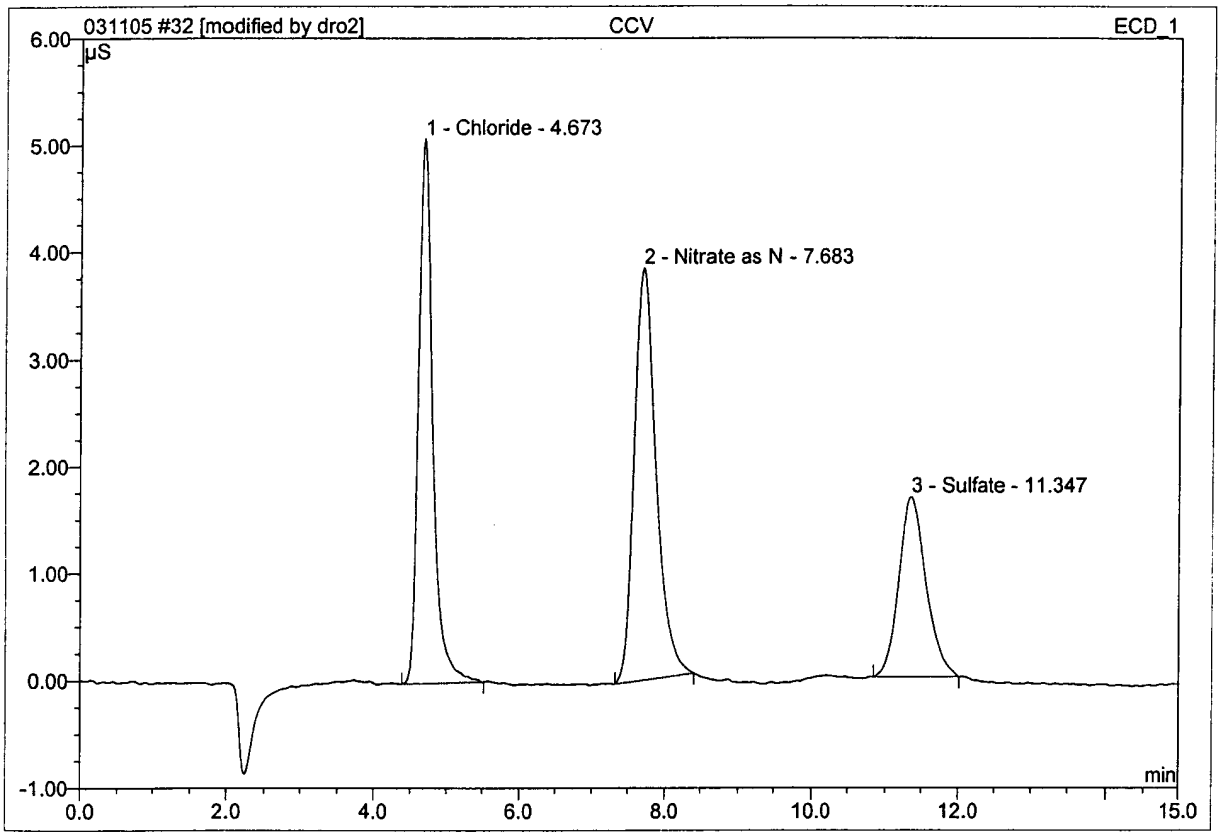
Sample Name:	**7808-004 10X**	*Injection Volume:*	**20.0**
Vial Number:	**31**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 18:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	7.77	Nitrate as N	0.050	0.011	100.00	0.044	BMB
Total:			0.050	0.011	100.00	0.044	

32 CCV

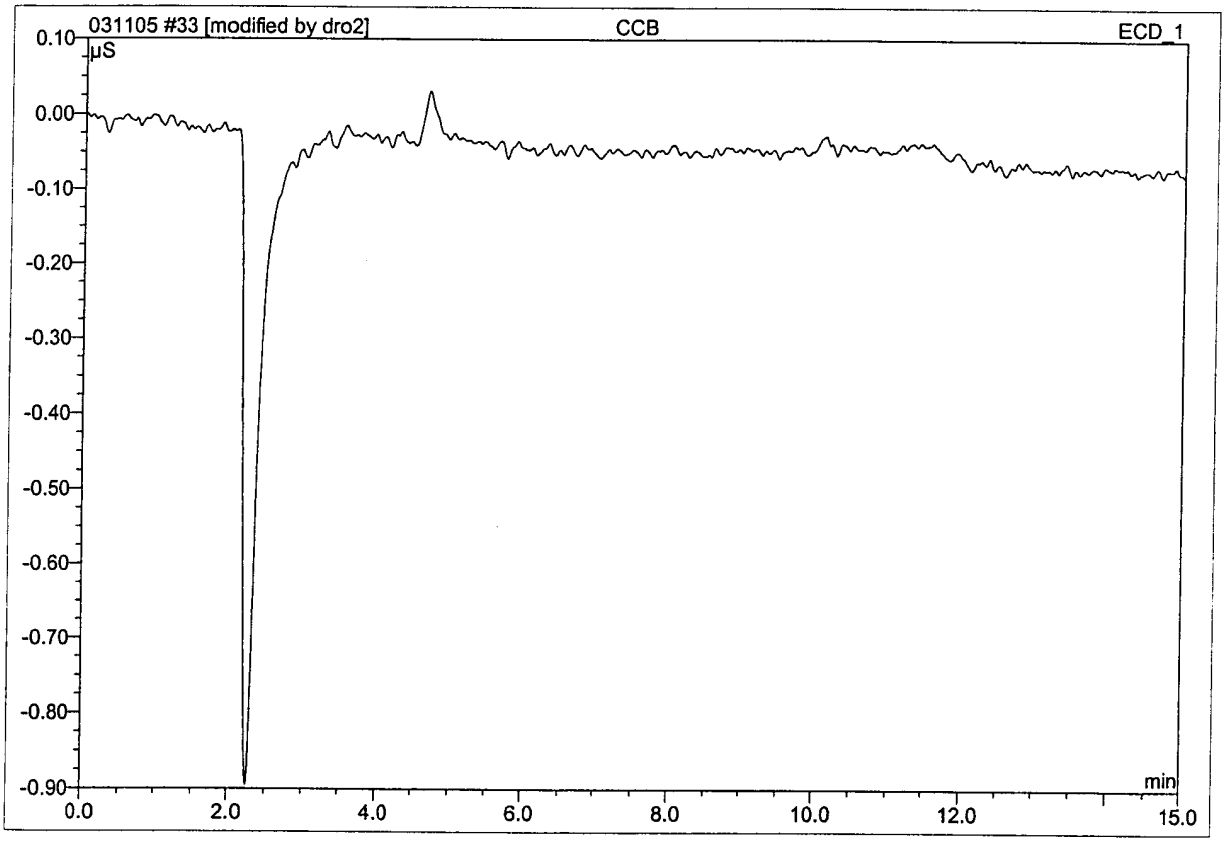
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**32**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 19:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.67	Chloride	5.088	1.162	36.29	10.048	BMB
2	7.68	Nitrate as N	3.847	1.310	40.94	5.440	BMB*
3	11.35	Sulfate	1.684	0.729	22.77	9.687	BMB
Total:			10.619	3.201	100.00	25.175	

33 CCB

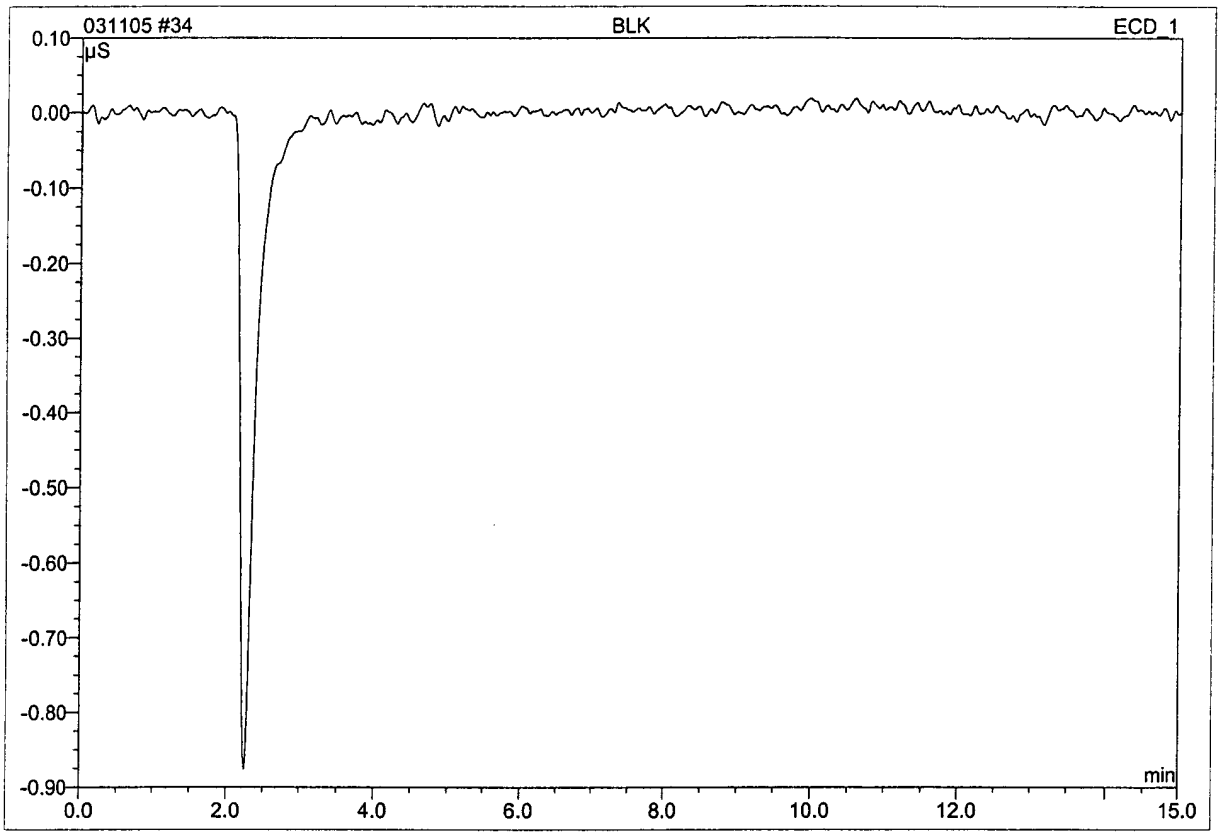
Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**33**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 19:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

34 BLK

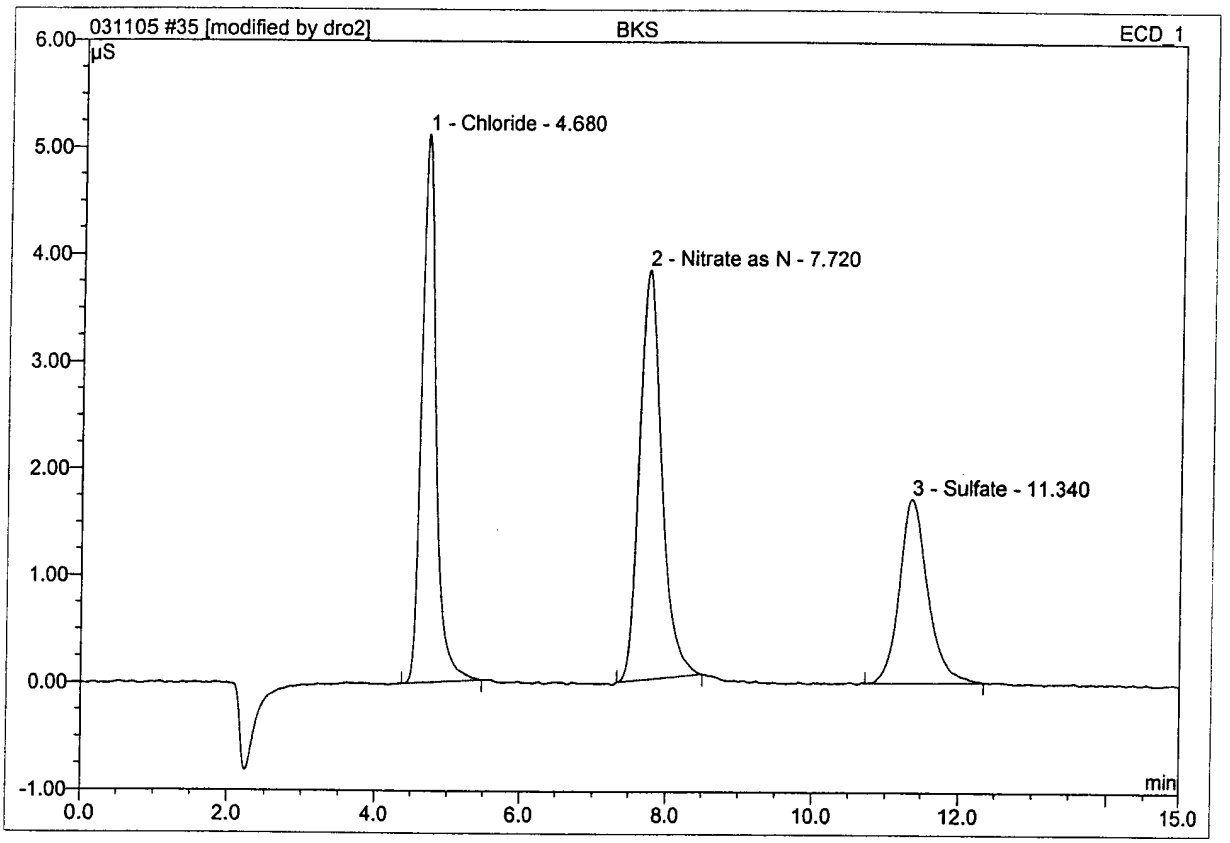
Sample Name:	**BLK**	*Injection Volume:*	**20.0**
Vial Number:	**34**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 19:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

35 BKS

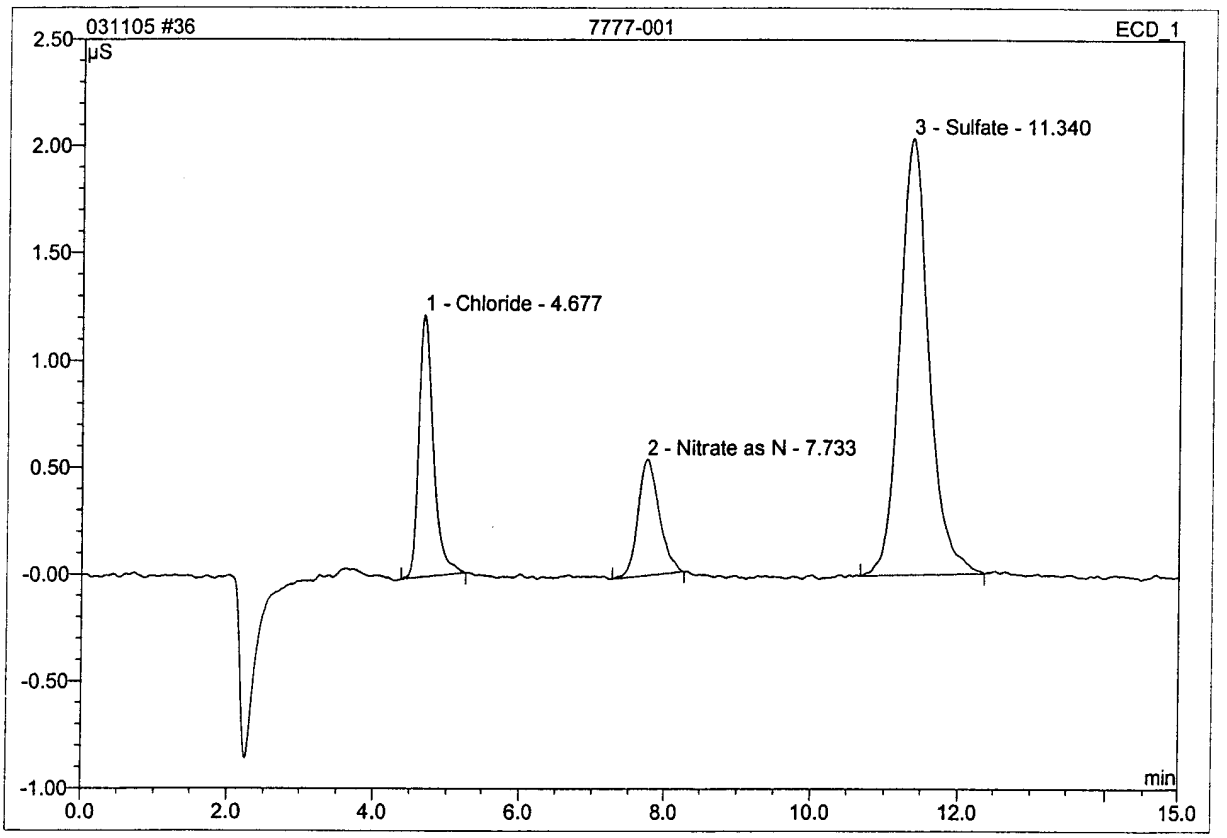
Sample Name:	**BKS**	*Injection Volume:*	**20.0**
Vial Number:	**35**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 20:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	5.124	1.164	35.60	10.068	BMB
2	7.72	Nitrate as N	3.826	1.321	40.41	5.485	BMB*
3	11.34	Sulfate	1.726	0.785	24.00	10.428	BMB
Total:			10.675	3.270	100.00	25.980	

36 7777-001

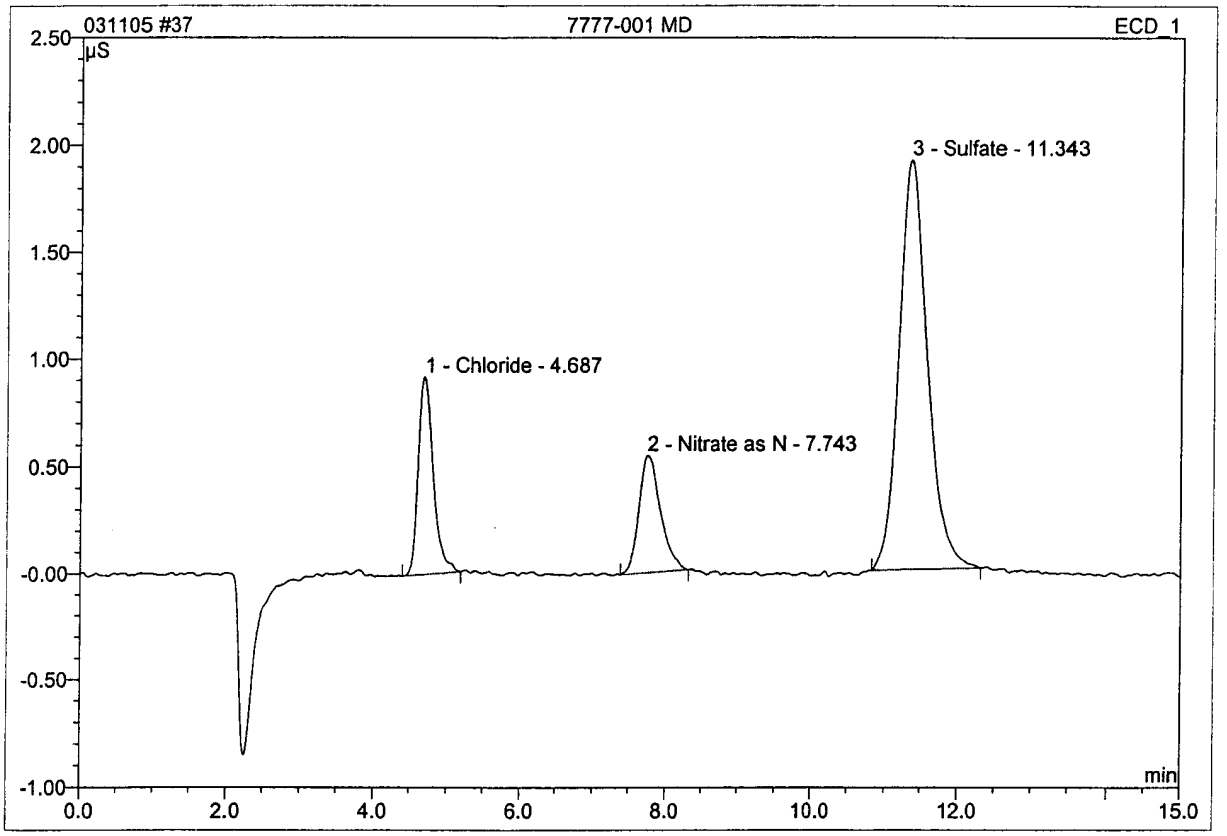
Sample Name:	**7777-001**	*Injection Volume:*	**20.0**
Vial Number:	**36**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 20:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	1.224	0.282	20.10	2.437	BMB
2	7.73	Nitrate as N	0.544	0.190	13.52	0.787	BMB
3	11.34	Sulfate	2.037	0.931	66.38	12.371	BMB
Total:			3.804	1.402	100.00	15.595	

37 7777-001 MD

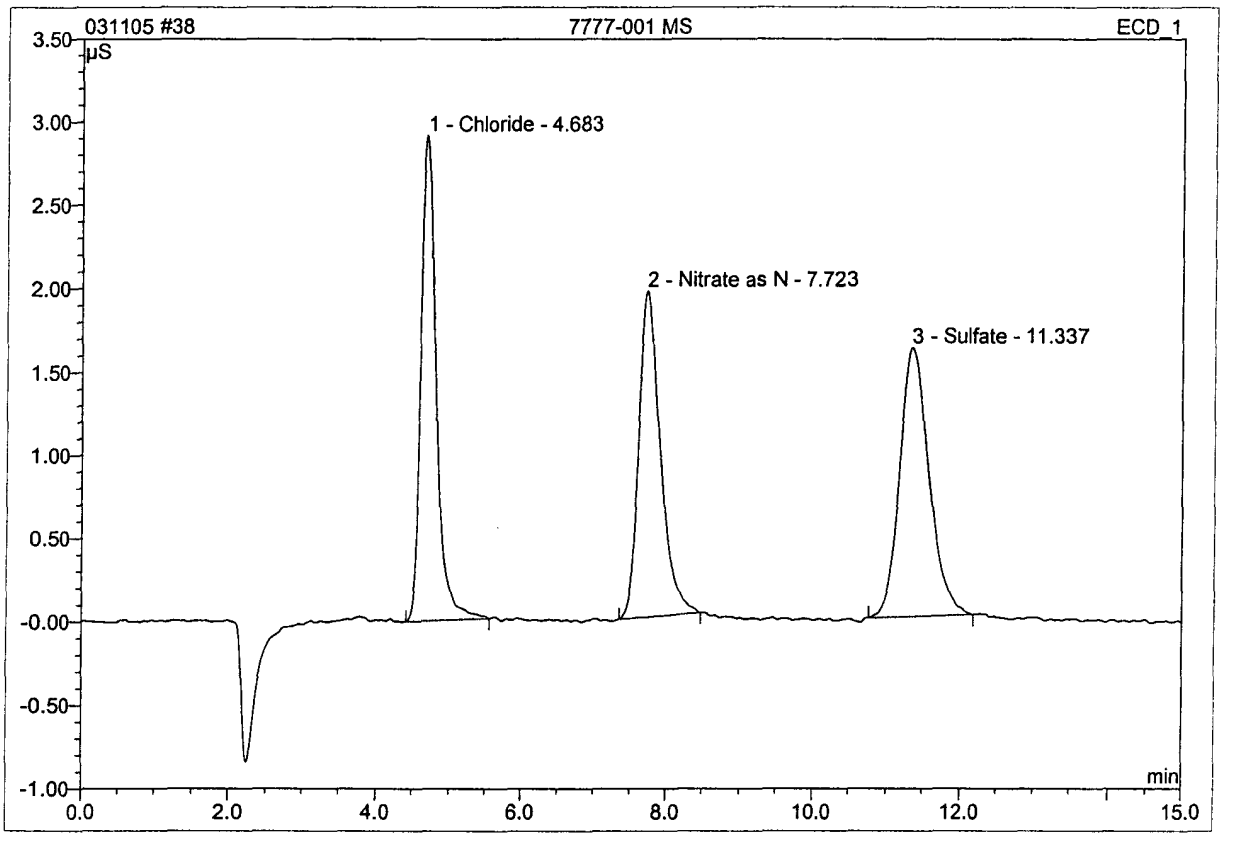
Sample Name:	**7777-001 MD**	*Injection Volume:*	**20.0**
Vial Number:	**37**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 20:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	0.921	0.212	16.87	1.832	BMB
2	7.74	Nitrate as N	0.548	0.188	14.98	0.781	BMB
3	11.34	Sulfate	1.912	0.855	68.15	11.368	BMB
Total:			3.381	1.255	100.00	13.981	

38 7777-001 MS

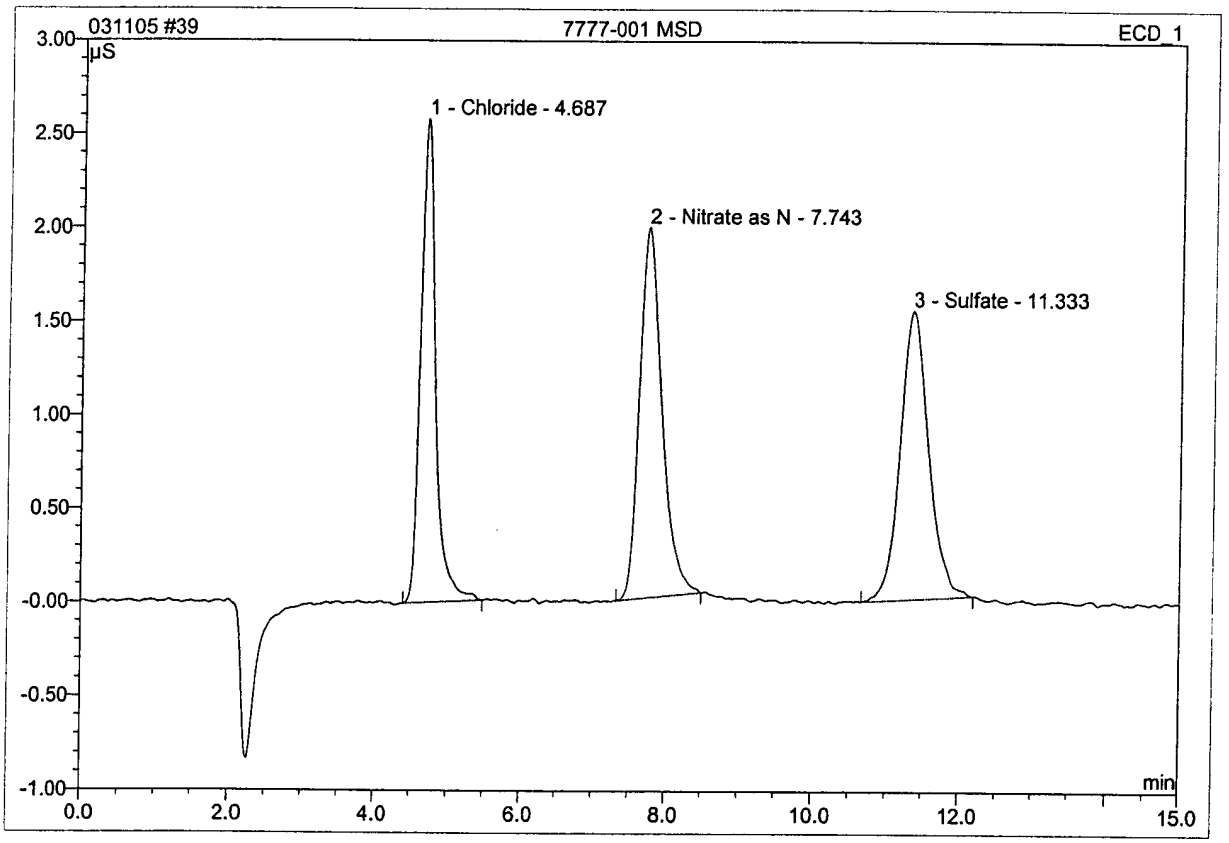
Sample Name:	**7777-001 MS**	*Injection Volume:*	**20.0**
Vial Number:	**38**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 20:58**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	2.914	0.682	32.63	5.897	BMB
2	7.72	Nitrate as N	1.958	0.683	32.66	2.833	BMB
3	11.34	Sulfate	1.619	0.725	34.71	9.639	BMB
Total:			6.491	2.089	100.00	18.369	

39 7777-001 MSD

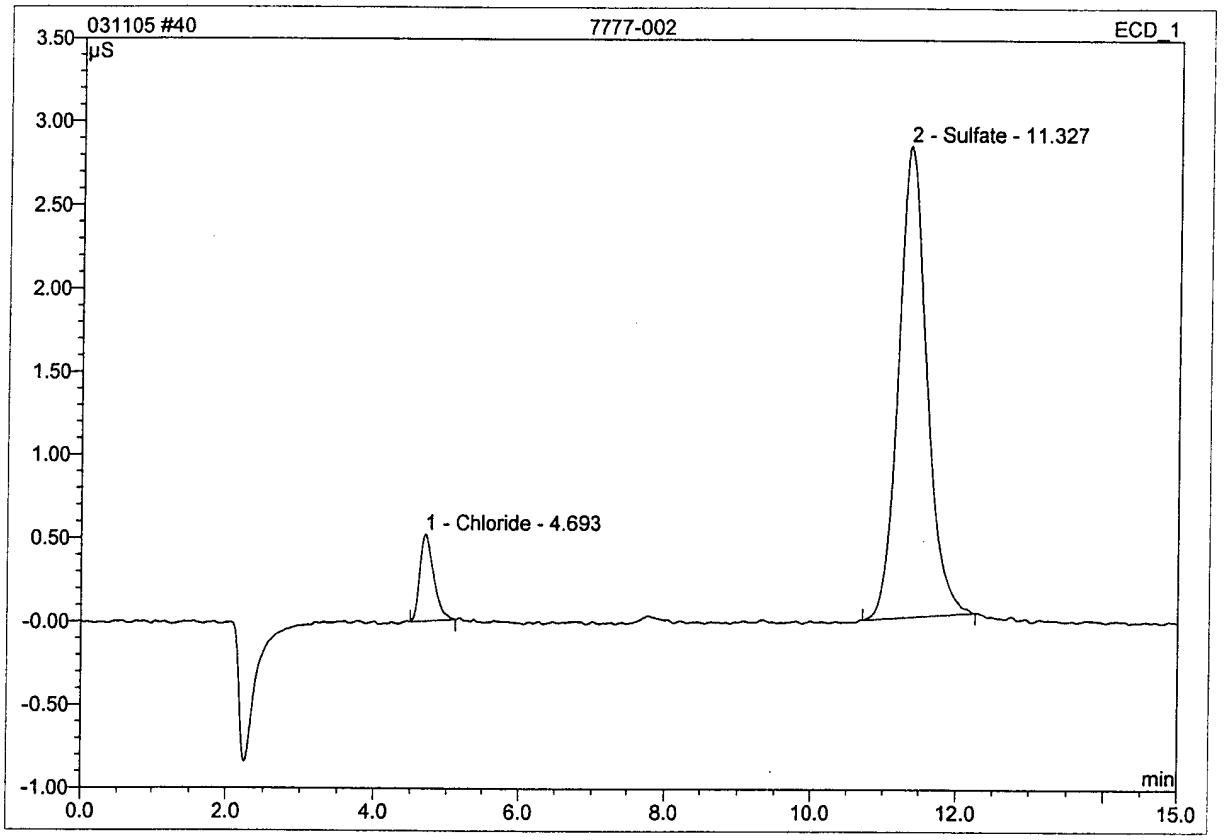
Sample Name:	**7777-001 MSD**	*Injection Volume:*	**20.0**
Vial Number:	**39**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 21:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	2.581	0.607	30.38	5.248	BMB
2	7.74	Nitrate as N	1.975	0.693	34.68	2.875	BMB
3	11.33	Sulfate	1.541	0.698	34.94	9.275	BMB
Total:			6.097	1.997	100.00	17.398	

40 7777-002

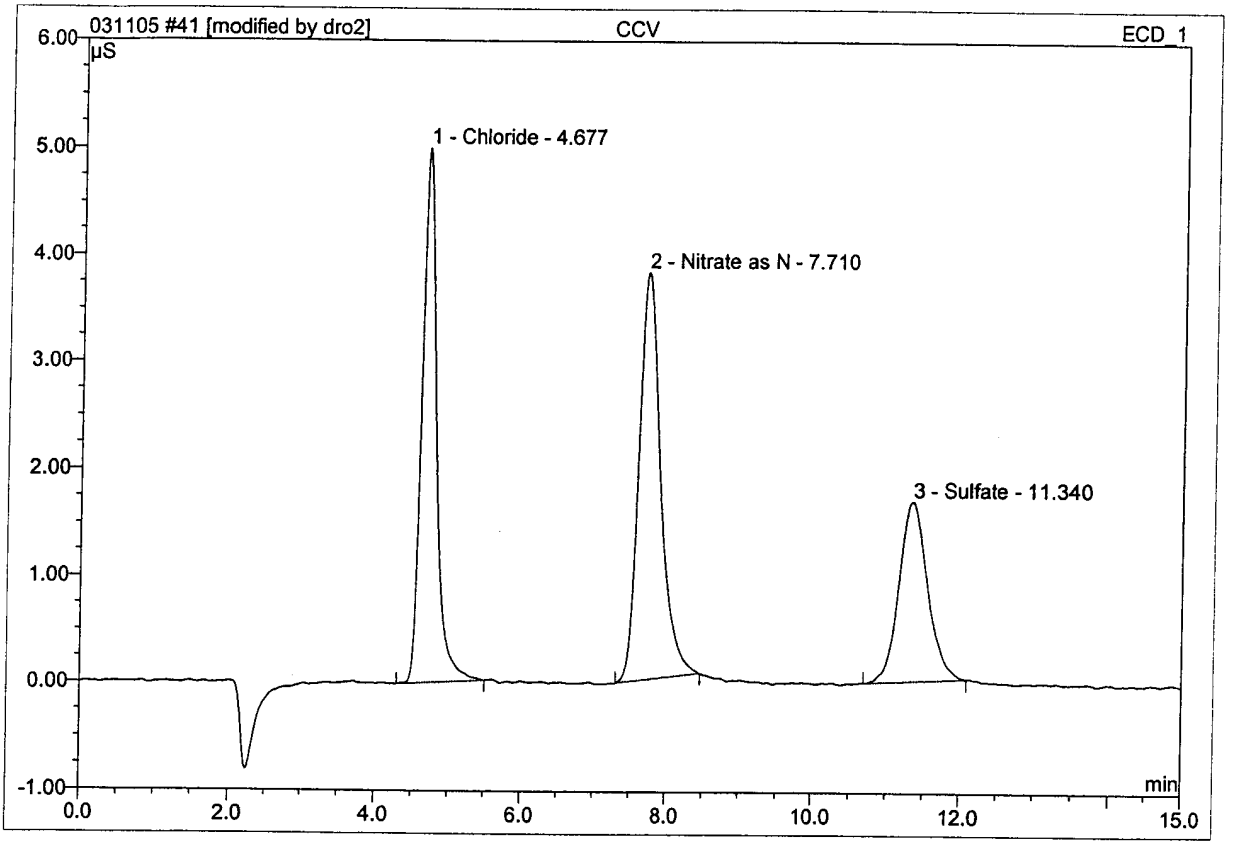
Sample Name:	**7777-002**	*Injection Volume:*	**20.0**
Vial Number:	**40**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 21:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	0.521	0.118	8.47	1.019	BMB
2	11.33	Sulfate	2.829	1.272	91.53	16.913	BMB
Total:			3.350	1.390	100.00	17.932	

41 CCV

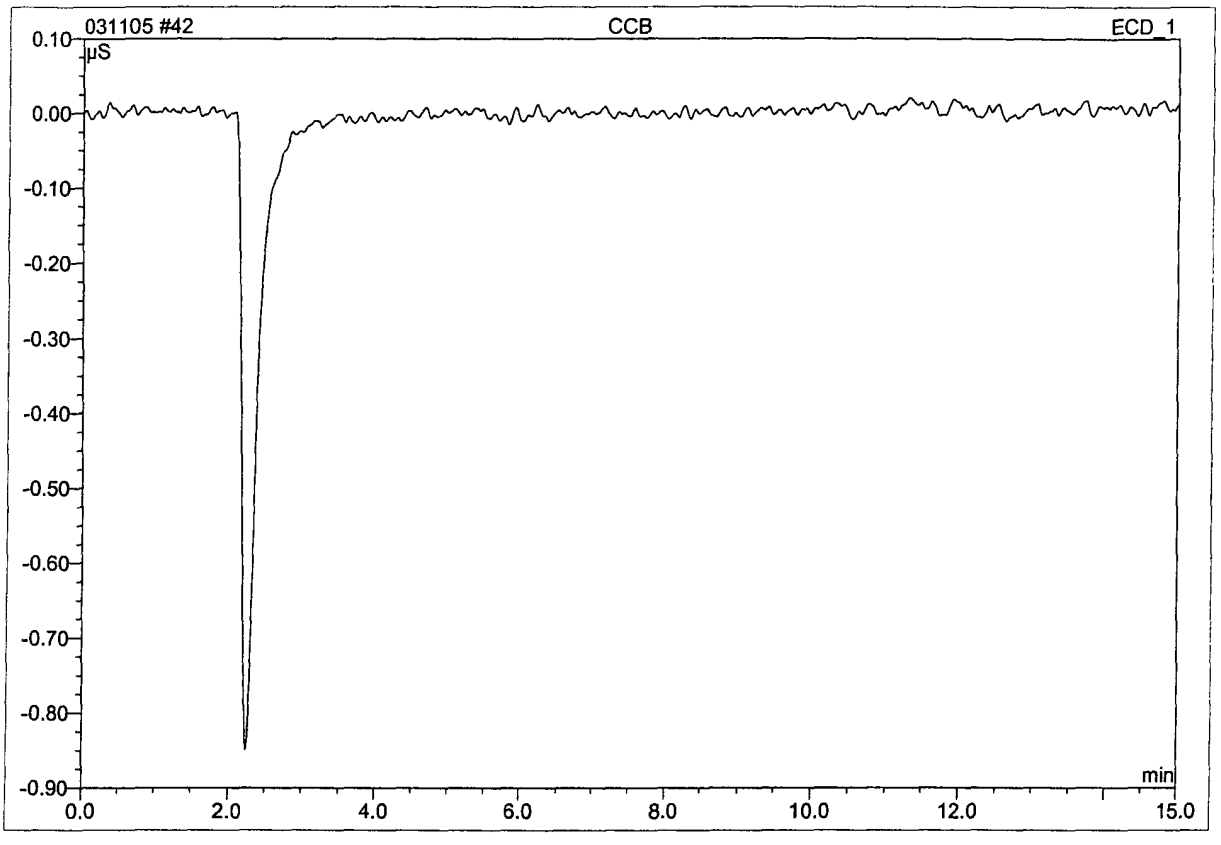
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**41**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 21:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	4.998	1.154	35.72	9.983	BMB
2	7.71	Nitrate as N	3.806	1.322	40.91	5.488	BMB*
3	11.34	Sulfate	1.684	0.755	23.37	10.037	BMB
Total:			10.488	3.231	100.00	25.508	

42 CCB

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**42**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 22:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

ACCURA ANALYTICAL LABORATORY, INC

ENVIRONMENTAL ANALYTICAL SERVICES

Wetlab Checklist

Date Due: 3/17/05

Test Method: SW 9060

Project Number: 7738 **Instrument Used:** TOC

ANALYTICAL QUESTIONS

1. Is the Blank <½ the RDL? Y If not, has the RDL been raised or the samples reanalyzed? N/A Has a QNF been written? N/A
2. Are the BKS/BSD within limits? Y If not, why or are the samples being reanalyzed? N/A Has a QNF been written? N/A
3. Duplicate AAL sample number 7738-001
   Is the RPD acceptable? Y If not, was a QNF written? N/A
4. MS/MSD AAL sample number 7738-001
   Are the recoveries acceptable? Y If not, was a QNF written? N/A
5. Sample numbers requiring dilution? N/A
6. Are all special requirements on project sheet completed? N If unable to complete, has the project manager been notified? N/A
7. Any additional comments? N/A

REVIEWER QUESTIONS

1. Is the ICV within limits for the test method? yes
2. Is the curve acceptable (<0.995 correlation coefficient)? yes
3. Is the correct information with correct sig. figs in Xenco? yes
4. Validated the correct RDL and MDL according to dilution in Xenco yes
5. Verified that all information including QNF present (if required) yes
6. Was the status upgraded to 50 in LIMS? (Yes) No

Analyst calculating results in Xenco LJB Date 3/14/05

Peer Reviewer CKM Date 3/21/05

Peer Reviewer is responsible for the review of all above information.

Total Carbon (TC), Inorganic Carbon (IC), Total Organic Carbon (TOC) Runlog for Water Samples

Sequence Start Date: 3/11/05
Analyst Initials: LJB
Sequence End Date: 3/12/05
Instrument Program: 1
Method Reference: SW 9060

Instrument Conditions	
Flow:	205
Temperature:	684
# Replicates:	4

Calibration Factor: —

A 25818

Lab Sample ID#	Client Sample ID#	ALS#	Matrix	DF	Sparged	Inj. Time	Average	High	Low	Comments
CCV		1	Aq	1X	Yes	16:30	48.38	51.02	47.18	
CCB/BLK		2				16:45	-0.625	-0.471	-.689	
BKS		3				17:00	47.25	47.85	46.48	
7738-001		4				17:15	2.373	2.456	2.093	
-001MD		5				17:30	2.358	2.773	2.168	
-001MS		6				17:45	47.56	49.40	46.75	
-001MSD		7				18:00	49.40	51.05	48.72	
-002		8				18:15	-0.481	-0.219	-0.789	
-003		9				18:30	3.222	3.647	2.722	
-004		10				18:45	1.332	2.094	0.861	
-005		11				19:00	2.895	3.036	2.733	
CCV		12				19:15	48.63	50.44	47.24	
CCB		13				19:30	-0.376	0.545	-0.595	
7738-006		14				19:45	1.89	1.907	1.798	
7739-001		15				20:00	-0.232	-.208	-0.264	
-002		16				20:15	1.882	2.203	1.655	
-003		17				20:30	2.27	2.496	1.993	
-004		18				20:45	1.827	1.978	~~1.99~~	1.641 LJB 3/14/05
7765-001		19				21:00	-0.31	-0.191	-0.433	
-002		20				21:15	0.052	0.192	-0.06	
-003		21				21:30	0.462	0.583	0.156	
-004		22				21:45	-0.333	-0.353	-0.187	
-005		23				22:00	-0.045	0.04	-0.264	
CCV TV=70ppm		24				22:15	65.15	66.6	63.95	
CCB		25				22:30	-0.596	-0.36	-0.913	
7765-006		26				22:45	-0.237	0.026	-0.336	
7765-007		27				23:00	-0.369	-0.496	-0.244	
7766-008		28				23:15	0.185	0.424	-0.051	
7766-009		29				23:30	1.678	1.787	1.496	

Analyst/Date: LJB 3/14/05 Reviewer/Date:

Total Carbon (TC), Inorganic Carbon (IC), Total Organic Carbon (TOC) Runlog for Water Samples

Sequence Start Date:
Analyst Initials:
Sequence End Date:
Instrument Program:
Method Reference: SW 9060

Instrument Conditions	
Flow:	
Temperature:	
# Replicates:	See previous page

Calibration Factor:

Lab Sample ID#	Client Sample ID#	ALS#	Matrix	DF	Sparged	Inj. Time	Average	High	Low	Comments
MB-010		30	Aq	1x	Yes	23:45	2.753	3.200	2.519	
BSD		31				00:00	48.06	49.34	47.43	
CCV		32				00:15	48.03	49.83	47.06	

3/14/05

Analyst/Date: LJB 3/14/05

Reviewer/Date:

1. TC = 51.02 ppm
2. TC = 47.18 ppm
3. TC = 47.83 ppm
4. TC = 47.51 ppm
1. AVG TC = 48.38 +/- 1.778 % std dev: 3.674

CCV

1. TC = -0.471 ppm
2. TC = -0.65 ppm
3. TC = -0.689 ppm
4. TC = -0.689 ppm
2. AVG TC = -0.625 +/- 0.104 % std dev: -16.71

CCB/BLK

1. TC = 47.85 ppm
2. TC = 47.51 ppm
3. TC = 47.15 ppm
4. TC = 46.48 ppm
3. AVG TC = 47.25 +/- 0.584 % std dev: 1.237

BKS

1. TC = 2.456 ppm
2. TC = 2.78 ppm
3. TC = 2.093 ppm
4. TC = 2.163 ppm
4. AVG TC = 2.373 +/- 0.313 % std dev: 13.21

7738-001

1. TC = 2.773 ppm
2. TC = 2.287 ppm
3. TC = 2.168 ppm
4. TC = 2.203 ppm
5. AVG TC = 2.358 +/- 0.281 % std dev: 11.94

7738-001 MD

1. TC = 49.4 ppm
2. TC = 47.35 ppm
3. TC = 46.75 ppm
4. TC = 46.76 ppm
6. AVG TC = 47.56 +/- 1.254 % std dev: 2.637

7738-001 MS

1. TC = 51.05 ppm
2. TC = 49.12 ppm
3. TC = 48.72 ppm
4. TC = 48.72 ppm
7. AVG TC = 49.4 +/- 1.114 % std dev: 2.254

7738-001 MSD

1. TC = -0.219 ppm
2. TC = -0.376 ppm
3. TC = -0.54 ppm
4. TC = -0.789 ppm
8. AVG TC = -0.481 +/- 0.244 % std dev: -50.66

7738-002

1. TC = 3.647 ppm
2. TC = 3.184 ppm
3. TC = 3.336 ppm
4. TC = 2.722 ppm
9. AVG TC = 3.222 +/- 0.385 % std dev: 11.95

7738-003

1. TC = 1.25 ppm
2. TC = 1.124 ppm
3. TC = 2.094 ppm
4. TC = 0.861 ppm
10. AVG TC = 1.332 +/- 0.533 % std dev: 40.

7738-004

1. TC = 3.036 ppm
2. TC = 2.938 ppm
3. TC = 2.873 ppm
4. TC = 2.733 ppm
11. AVG TC = 2.895 +/- 0.127 % std dev: 4.389

7738-005

1. TC = 50.44 ppm
2. TC = 48.57 ppm
3. TC = 47.24 ppm
4. TC = 48.28 ppm
12. AVG TC = 48.63 +/- 1.333 % std dev: 2.742

CCV

1. TC = 0.545 ppm
2. TC = -0.595 ppm CCB
3. TC = -0.696 ppm
4. TC = -0.678 ppm
13. AVG TC = -0.356 +/- 0.602 % std dev: -169.3
1. TC = 1.967 ppm
2. TC = 1.916 ppm 7738-006
3. TC = 1.879 ppm
4. TC = 1.798 ppm
14. AVG TC = 1.89 +/- 0.071 % std dev: 3.759
1. TC = -0.264 ppm
2. TC = -0.208 ppm 7739-001
3. TC = -0.233 ppm
4. TC = -0.223 ppm
15. AVG TC = -0.232 +/- 0.024 % std dev: -10.17
1. TC = 2.203 ppm
2. TC = 2.002 ppm 7739-002
3. TC = 1.668 ppm
4. TC = 1.655 ppm
16. AVG TC = 1.882 +/- 0.268 % std dev: 14.22
1. TC = 2.496 ppm
2. TC = 2.253 ppm 7739-003
3. TC = 2.336 ppm
4. TC = 1.993 ppm
17. AVG TC = 2.27 +/- 0.21 % std dev: 9.267
1. TC = 1.978 ppm
2. TC = 1.786 ppm 7739-004
3. TC = 1.641 ppm
4. TC = 1.903 ppm
18. AVG TC = 1.827 +/- 0.147 % std dev: 8.062
1. TC = -0.198 ppm
2. TC = -0.191 ppm 7765-001
3. TC = -0.419 ppm
4. TC = -0.433 ppm
19. AVG TC = -0.31 +/- 0.134 % std dev: -43.23
1. TC = 0.192 ppm
2. TC = -0.011 ppm 7765-002
3. TC = -0.06 ppm
4. TC = 0.086 ppm
20. AVG TC = 0.052 +/- 0.112 % std dev: 215.8
1. TC = 0.583 ppm
2. TC = 0.574 ppm 7765-003
3. TC = 0.537 ppm
4. TC = 0.156 ppm
21. AVG TC = 0.462 +/- 0.205 % std dev: 44.39
1. TC = -0.187 ppm
2. TC = -0.353 ppm 7765-004
3. TC = -0.326 ppm
4. TC = -0.466 ppm
22. AVG TC = -0.333 +/- 0.115 % std dev: -34.43
1. TC = 0.04 ppm
2. TC = 0.018 ppm
3. TC = 0.026 ppm 7765-005
4. TC = -0.264 ppm
23. AVG TC = -0.045 +/- 0.146 % std dev: -325.2
1. TC = 66.6 ppm
2. TC = 63.95 ppm CCV TV=70ppm
3. TC = 64.57 ppm
4. TC = 65.46 ppm
24. AVG TC = 65.15 +/- 1.151 % std dev: 1.766

1. TC = -0.36 ppm
2. TC = -0.492 ppm CCB
3. TC = -0.619 ppm
4. TC = -0.913 ppm
25. AVG TC = -0.596 +/- 0.236 % std dev: -39.64
1. TC = 0.026 ppm
2. TC = -0.263 ppm
3. TC = -0.376 ppm 7765-006
4. TC = -0.336 ppm
26. AVG TC = -0.237 +/- 0.181 % std dev: -76.44
1. TC = -0.214 ppm
2. TC = -0.233 ppm
3. TC = -0.532 ppm 7765-007 JJB 3/14/05
4. TC = -0.496 ppm
27. AVG TC = -0.369 +/- 0.168 % std dev: -45.7
1. TC = 0.424 ppm
2. TC = 0.229 ppm
3. TC = -0.051 ppm 7766-008
4. TC = 0.14 ppm
28. AVG TC = 0.185 +/- 0.197 % std dev: 106.5
1. TC = 1.774 ppm
2. TC = 1.787 ppm
3. TC = 1.655 ppm 7766-009
4. TC = 1.496 ppm
29. AVG TC = 1.678 +/- 0.135 % std dev: 8.064
1. TC = 3.2 ppm
2. TC = 2.751 ppm
3. TC = 2.541 ppm 7766-010.
4. TC = 2.519 ppm
30. AVG TC = 2.753 +/- 0.316 % std dev: 11.48
1. TC = 49.34 ppm
2. TC = 47.43 ppm BSD
3. TC = 47.76 ppm
4. TC = 47.71 ppm
31. AVG TC = 48.06 +/- 0.864 % std dev: 1.798
1. TC = 49.83 ppm
2. TC = 47.06 ppm
3. TC = 47.78 ppm CCV
4. TC = 47.45 ppm
32. AVG TC = 48.03 +/- 1.239 % std dev: 2.58
35:51:47 Thu Mar 3, 2024

VOA GC/MS DATA CHECKLIST
SW-846-8260B

PROJECT #: 7738	METHOD: 8260B
MATRIX: water	

INITIAL ANALYST ASSESSMENT

Are all standards within expiration dates for both stock and serial standards?	Y	N	NA
Are Tuning results compliant with method?	Y	N	NA
Are all CCC drift results, or target analyte drift results acceptable for CCV?	Y	N	NA
Are all SPCC Response Factors acceptable for CCV?	Y	N	NA
Are all CCV Internal Standard areas within -50% to +100% of initial calibration midlevel standard?	Y	N	NA
Are all CCV Internal Standard retention times within 30 seconds of initial cal. midlevel standard?	Y	N	NA
Are all sample Internal Standard areas w/in -50% to +100% of that in the CCV?	Y	N	NA
Are all sample Internal Standard retention times w/in 30 seconds of that in the CCV?	Y	N	NA
Is/Are blank result(s) less than 1/2 RDL for all analytes of interest?	Y	N	NA
Are all spike recoveries acceptable for the LCS?	Y	N	NA
If all spike recoveries were not acceptable, was a Quality Notice Form completed?	Y	N	NA
Are all surrogate standard recoveries acceptable (Blank, LCS, samples)?	Y	N	NA
If Internal Standard, surrogate, or LCS are unacceptable was re-injection performed to confirm?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
If sample analyses were not performed within holding times, was a Quality Notice Form completed?	Y	N	NA
Were analyses performed such that carryover was not a problem?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	NA
Are all requested analytes below the upper calibration limit?	Y	N	NA
If interfering ions are present, was identification made by looking at characteristic ions only?	Y	N	NA
Was the Modified 5035 method used? Was a Temporary Method Deviation form completed?	Y	N	NA
Were TICS required? If so, were steps in section 7.6.2 followed in 8260B?	Y	N	NA
Are pHs recorded for all water samples?	Y	N	NA
Have the samples been reviewed, and all false positives deleted?	Y	N	NA
Are all samples and supporting data (QNF, QC Charts, Runlog and Batchbook Copies) in the folder?	Y	N	NA

Analyst: CE

Date: 4/4/05 Time: 11:00

PEER REVIEW

Are Tuning results compliant with method?	Y	N	NA
Are all CCC drift results and SPCC Response Factors acceptable for CCV?	Y	N	NA
Are all CCV Internal Standard areas and retention times within method limits?	Y	N	NA
Are all sample Internal Standard areas and retention times within method limits?	Y	N	NA
Are all blank and QC results acceptable?	Y	N	NA
Are all surrogate standard recoveries acceptable?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	NA
Are all calculations correct and reported in the proper units?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
Is the run log completely filled out (including review signature/date)?	Y	N	NA
Are pHs recorded for all water samples?	Y	N	NA
Are all applicable runlog sheets signed, dated, and included?	Y	N	NA
Have all samples and supporting data been included in the folder?	Y	N	NA
Have all LIMS entries been checked for accuracy?	Y	N	NA

Reviewer: RPS

Date: 04/04/05 Time: 11:45

Injection Log

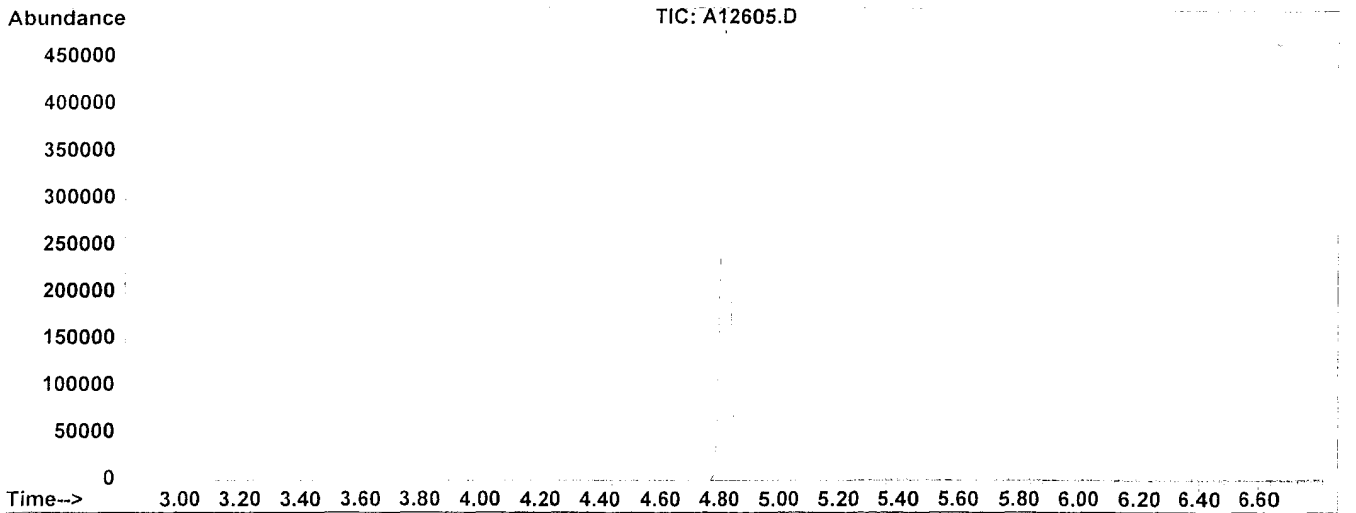
Directory: c:\hpchem\1\data\a030405

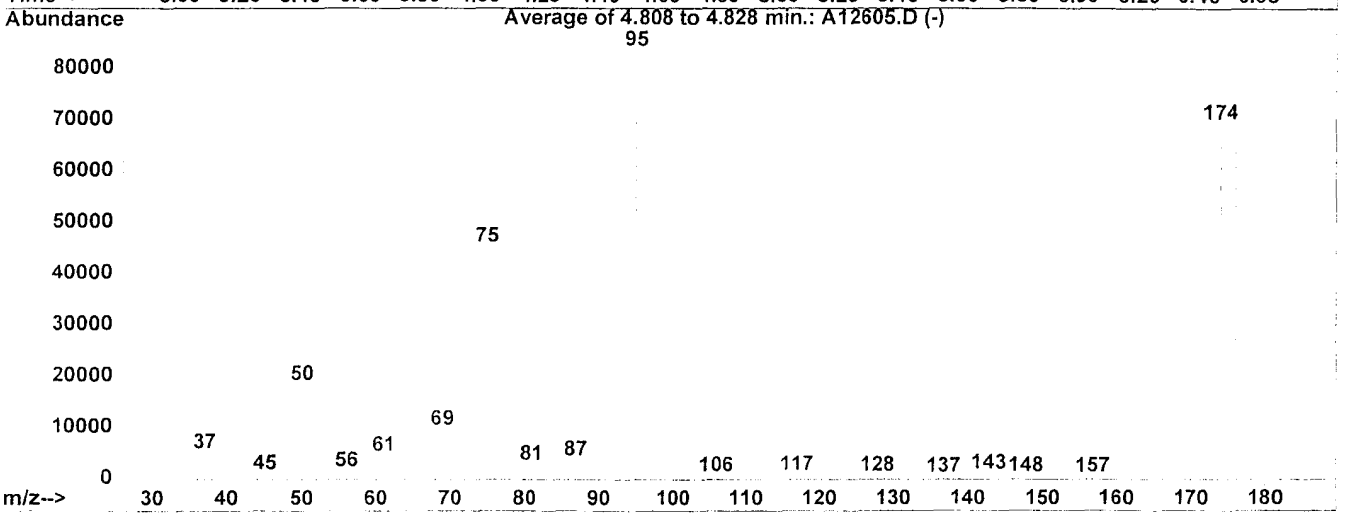
Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	a12605.d	1.	VTUNA35		4 Mar 05 10:03
2	1	a12606.d	1.	VSTD050A36	CCV	4 Mar 05 11:25
3	2	a12607.d	1.	VIBLK	BLK	4 Mar 05 11:53
4	2	a12608.d	1.	BLK	5mL DF=1	4 Mar 05 12:21
5	1	a12609.d	1.	BKS	5mL DF=1	4 Mar 05 12:49
6	2	a12610.d	1.	VIBLK	5mL DF=1	4 Mar 05 13:16
7	3	a12611.d	1.	7738-001 BNR-1120-MW14R-06	5mL DF=1	4 Mar 05 13:54
8	4	a12612.d	1.	7738-002 BNR-1120-MW35-06	5mL DF=1	4 Mar 05 14:22
9	5	a12613.d	1.	7738-003 BNR-1120-MW2-06	5mL DF=1	4 Mar 05 14:50
10	6	a12614.d	1.	7738-004 BNR-1120-MW4-06	5mL DF=1	4 Mar 05 15:18
11	7	a12615.d	1.	7738-005 BNR-1120-MW5R-06	5mL DF=1	4 Mar 05 15:45
12	8	a12616.d	1.	7738-006 BNR-1120-MW01-06	5mL DF=1	4 Mar 05 16:13
13	9	a12617.d	1.	7738-007 TRIP BLANK	5mL DF=1	4 Mar 05 16:41
14	10	a12618.d	1.	7738-004MS BNR-1120-MW4-06MS	5mL DF=1	4 Mar 05 17:09
15	11	a12619.d	1.	7738-004MSD BNR-1120-MW4-06MSD	5mL DF=1	4 Mar 05 17:37
16	12	a12620.d	1.	7751-001 MW-29-46	5mL DF=1	4 Mar 05 18:05
17	13	a12621.d	1.	7751-002 MW-21-46	5mL DF=1	4 Mar 05 18:33
18	14	a12622.d	1.	7751-003 MW-15-46	5mL DF=1	4 Mar 05 19:00
19	1	a12623.d	1.	7751-004 MW-20-46	5mL DF=1	4 Mar 05 19:28
20	2	a12624.d	1.	7751-005 DUP01-46	5mL DF=1	4 Mar 05 19:55
21	3	a12625.d	1.	7751-006 MW-22A-46	5mL DF=1	4 Mar 05 20:23
22	4	a12626.d	1.	7751-007 EB-01-46	5mL DF=1	4 Mar 05 20:51
23	5	a12627.d	1.	7751-008 FB-01-46	5mL DF=1	4 Mar 05 21:19
24	6	a12628.d	1.	7751-009 TRIP BLANK	5mL DF=1	4 Mar 05 21:46
25	2	x00001.d	1.	BLKK	5mL DF=1	7 Mar 05 08:56
26	13	x00002.d	1.	BLKK	5mL DF=1	7 Mar 05 09:25
27	14	x00003.d	1.	BLKK	5mL DF=1	7 Mar 05 09:55

25375/25752

BFB

Data File : C:\HPCHEM\1\DATA\A030405\A12605.D Vial: 1
Acq On : 4 Mar 2005 10:03 Operator: RPS
Sample : VTUNA35 Inst : HP-MSA
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :





AutoFind: Scans 80, 81, 82; Background Corrected with Scan 73

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	18141	PASS
75	95	30	66	54.1	45051	PASS
95	95	100	100	100.0	83339	PASS
96	95	5	9	7.4	6176	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	82.9	69069	PASS
175	174	4	9	8.0	5541	PASS
176	174	95	101	97.4	67272	PASS
177	176	5	9	7.2	4857	PASS

GC/MS QA-QC Check Report

une File : C:\HPCHEM\1\DATA\A030405\A12605.D
une Time : 4 Mar 2005 10:03

Daily Calibration File : C:\HPCHEM\1\DATA\A030405\A12606.D

File	Sample	Surrogate Recovery %			Internal Standard Responses		
					437237	599050	355458
A12606.D	VSTD050A	93	92	85	437237	599050	355458
A12608.D	BLK	97	97	86	417683	561778	334984
A12609.D	BKS	94	94	85	424905	564500	333155
A12611.D	7738-001	96	98	90	423697	544929	330953
A12612.D	7738-002	101	100	88	422447	569442	339930
A12613.D	7738-003	94	96	85	429131	569584	338104
A12614.D	7738-004	98	100	89	387569	520248	314406
A12615.D	7738-005	97	101	89	414356	543341	321933
A12616.D	7738-006	95	98	87	416156	555011	334666
A12617.D	7738-007	98	100	88	413545	545874	323301
A12618.D	7738-004	91	94	84	417712	549536	333221
A12619.D	7738-004	96	93	85	398337	552595	323754
A12620.D	7751-001	96	96	87	396373	537585	327986
A12621.D	7751-002	93	94	85	410425	548705	332121
A12622.D	7751-003	96	99	88	401184	548059	326937
A12623.D	7751-004	98	99	90	415129	554230	324216
A12624.D	7751-005	99	95	88	414881	574858	333298
A12625.D	7751-006	97	98	87	402044	544956	323031
A12626.D	7751-007	102	98	88	388371	525852	309441
A12627.D	7751-008	101	97	88	385907	528725	304250
A12628.D	7751-009	102	98	88	388503	526222	305996

t - fails 12hr time check * - fails criteria

Created: Mon Mar 07 08:19:39 2005 HP-MSA

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030405\A12606.D Vial: 1
Acq On : 4 Mar 2005 11:25 Operator: RPS
Sample : VSTD050A36 Inst : HP-MSA
Misc : CCV Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 11:42 19105 Quant Results File: 0304BTEX.RES

Quant Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0304BTEX

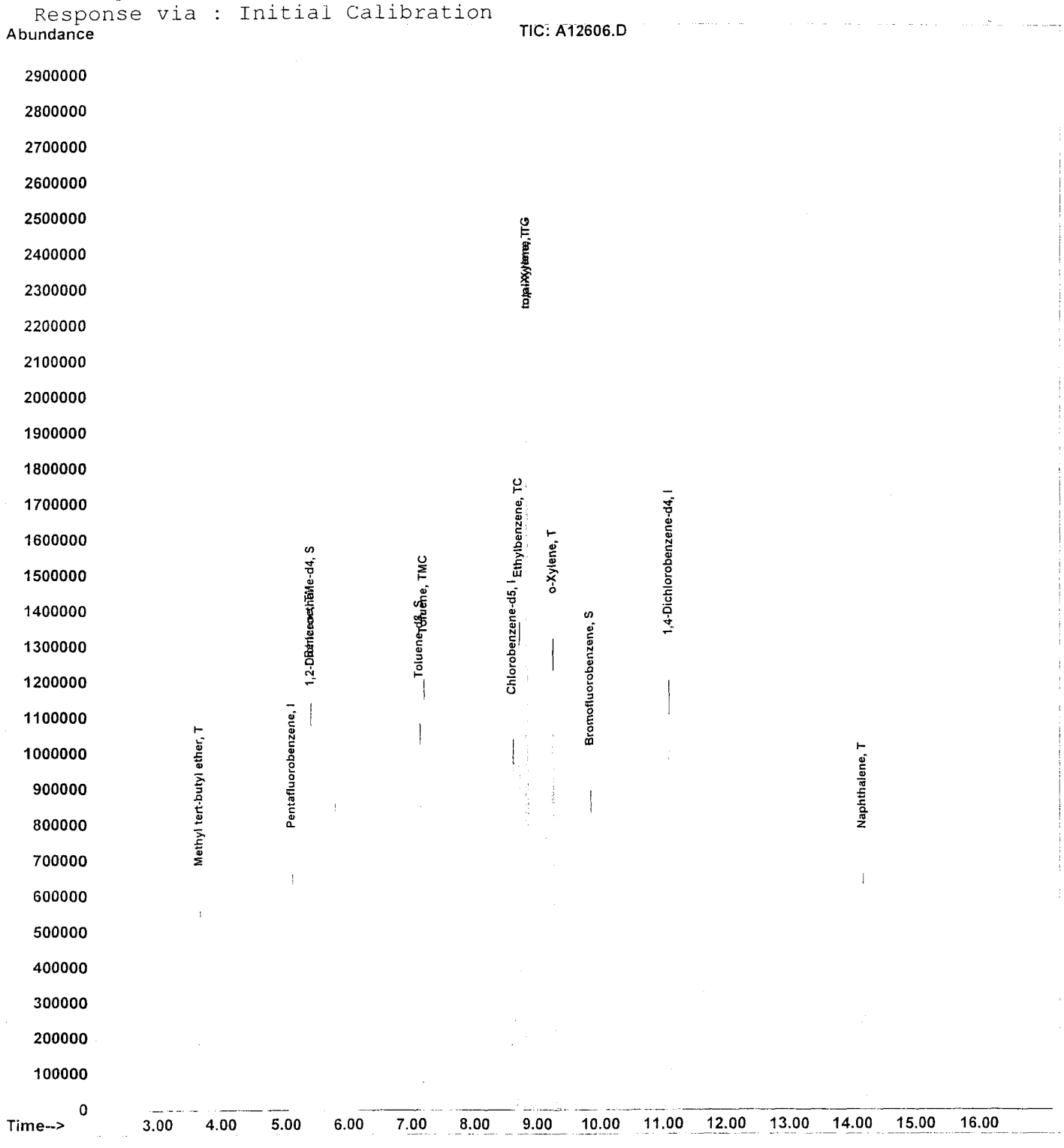
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	437237	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	599050	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	355458	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	299130	46.63	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.26%			
6) Toluene-d8	7.15	98	706742	46.02	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 92.04%			
13) Bromofluorobenzene	9.87	95	317674	42.30	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 84.60%			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	578559	45.48	ug\L	99
4) Benzene	5.41	78	767546	44.54	ug\L	100
7) Toluene	7.22	91	850834	44.54	ug\L	99
8) Ethylbenzene	8.73	91	1030440	46.00	ug\L	99
9) m,p-Xylene	8.85	106	719263	89.54	ug\L	100
10) o-Xylene	9.27	106	356156	46.22	ug\L	98
11) total-Xylene	8.85	106	1074423m	137.75	ug\L	
14) Naphthalene	14.17	128	857137	51.29	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030405\A12606.D Vial: 1
Acq On : 4 Mar 2005 11:25 Operator: RPS
Sample : VSTD050A36 Inst : HP-MSA
Misc : CCV Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 11:42 19105 Quant Results File: 0304BTEX.RES

Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030405\A12611.D Vial: 3
Acq On : 4 Mar 2005 13:54 Operator: RPS
Sample : 7738-001 BNR-1120-MW14R-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 14:11 19105 Quant Results File: 0304BTEX.RES

Quant Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0304BTEX

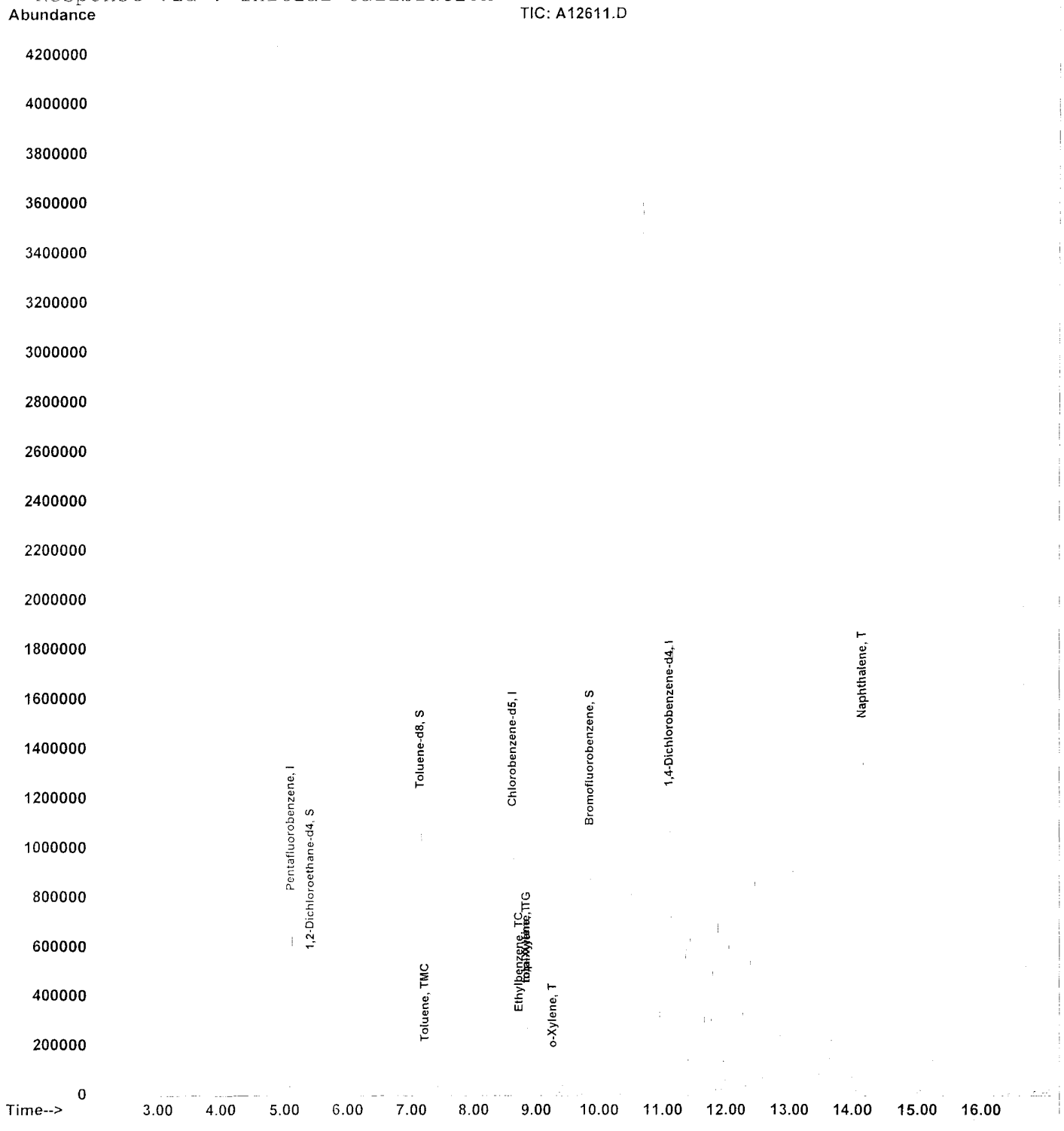
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.12	168	423697	50.00 ug\L	0.00
5) Chlorobenzene-d5	8.64	117	544929	50.00 ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.12	152	330953	50.00 ug\L	0.00
System Monitoring Compounds					
3) 1,2-Dichloroethane-d4	5.43	65	299703	48.21 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.42%		
6) Toluene-d8	7.16	98	685390	49.06 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.12%		
13) Bromofluorobenzene	9.87	95	315835	45.17 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 90.34%		
Target Compounds					Qvalue
7) Toluene	7.22	91	5683	0.33 ug\L	88
8) Ethylbenzene	8.74	91	111368	5.47 ug\L	99
9) m,p-Xylene	8.86	106	70716	9.68 ug\L	100
10) o-Xylene	9.28	106	3131	0.45 ug\L	82
11) total-Xylene	8.86	106	73805m	10.40 ug\L	
14) Naphthalene	14.19	128	1811167	116.41 ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030405\A12611.D Vial: 3
Acq On : 4 Mar 2005 13:54 Operator: RPS
Sample : 7738-001 BNR-1120-MW14R-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 14:11 19105 Quant Results File: 0304BTEX.RES

Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030405\A12612.D Vial: 4
Acq On : 4 Mar 2005 14:22 Operator: RPS
Sample : 7738-002 BNR-1120-MW35-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 14:39 19105 Quant Results File: 0304BTEX.RES

Quant Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0304BTEX

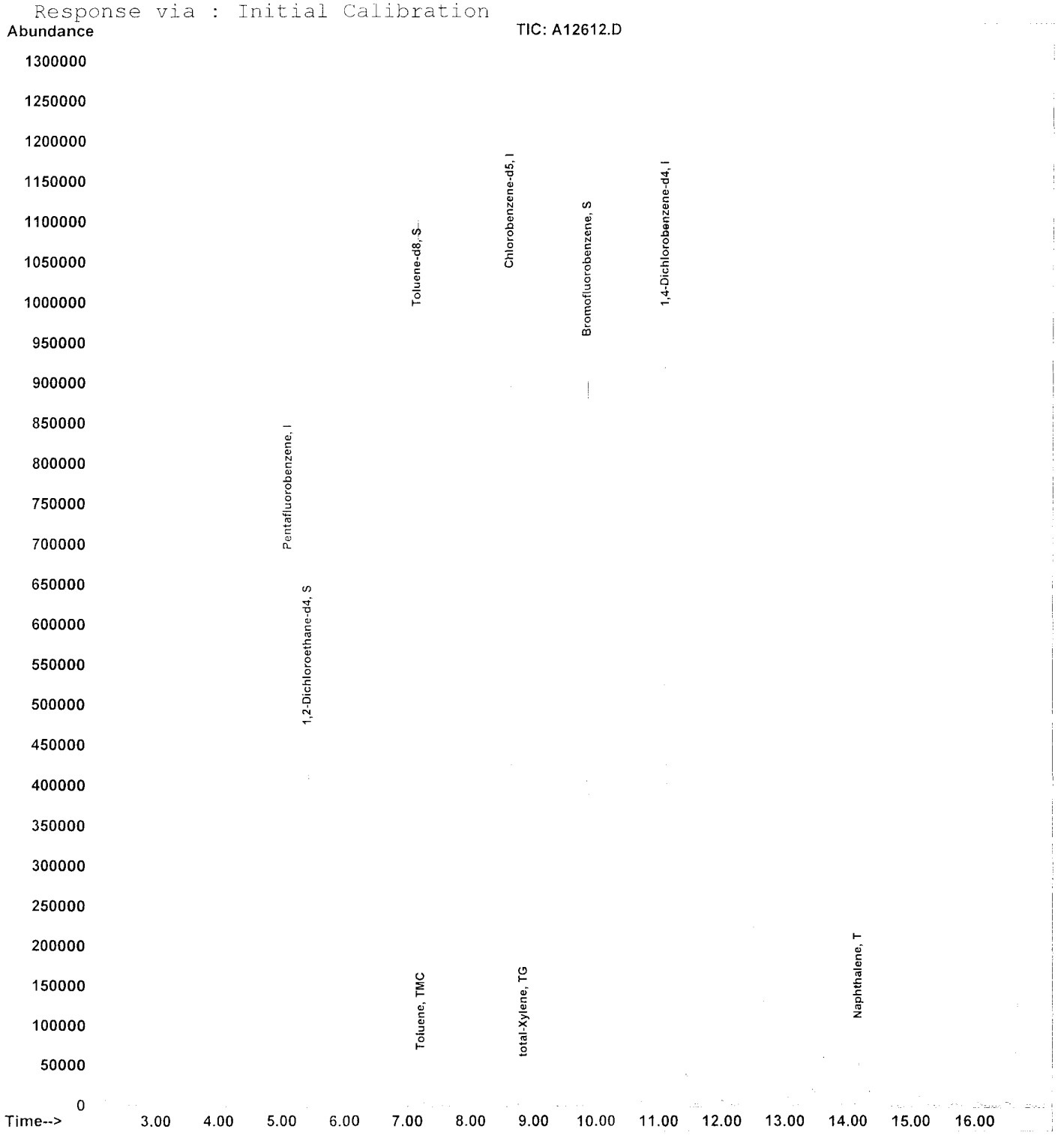
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.12	168	422447	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.64	117	569442	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.12	152	339930	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.43	65	313258	50.54	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.08%			
6) Toluene-d8	7.16	98	729468	49.97	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.94%			
13) Bromofluorobenzene	9.87	95	316605	44.08	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 88.16%			
Target Compounds						Qvalue
7) Toluene	7.22	91	4987	0.27	ug\L	97
11) total-Xylene	8.85	106	1617m	0.22	ug\L	
14) Naphthalene	14.18	128	68143	4.26	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030405\A12612.D Vial: 4
Acq On : 4 Mar 2005 14:22 Operator: RPS
Sample : 7738-002 BNR-1120-MW35-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 14:39 19105 Quant Results File: 0304BTEX.RES

Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030805\A12665.D Vial: 4
Acq On : 8 Mar 2005 19:25 Operator: RPS
Sample : 7738-002 BNR-1120-MW35-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 19:42 19105 Quant Results File: 0308BTEX.RES

Quant Method : c:\hpchem\1\data\A030805\0308BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0308BTEX

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.13	168	346058	50.00 ug\L	0.00
5) Chlorobenzene-d5	8.64	117	464484	50.00 ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.13	152	265747	50.00 ug\L	0.01
System Monitoring Compounds					
3) 1,2-Dichloroethane-d4	5.43	65	267280	52.64 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.28%		
6) Toluene-d8	7.16	98	603315	50.66 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.32%		
13) Bromofluorobenzene	9.88	95	258626	46.06 ug\L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 92.12%		
Target Compounds					Qvalue
7) Toluene	7.23	91	5198	0.35 ug\L	98
14) Naphthalene	14.21	128	5019	0.40 ug\L	100

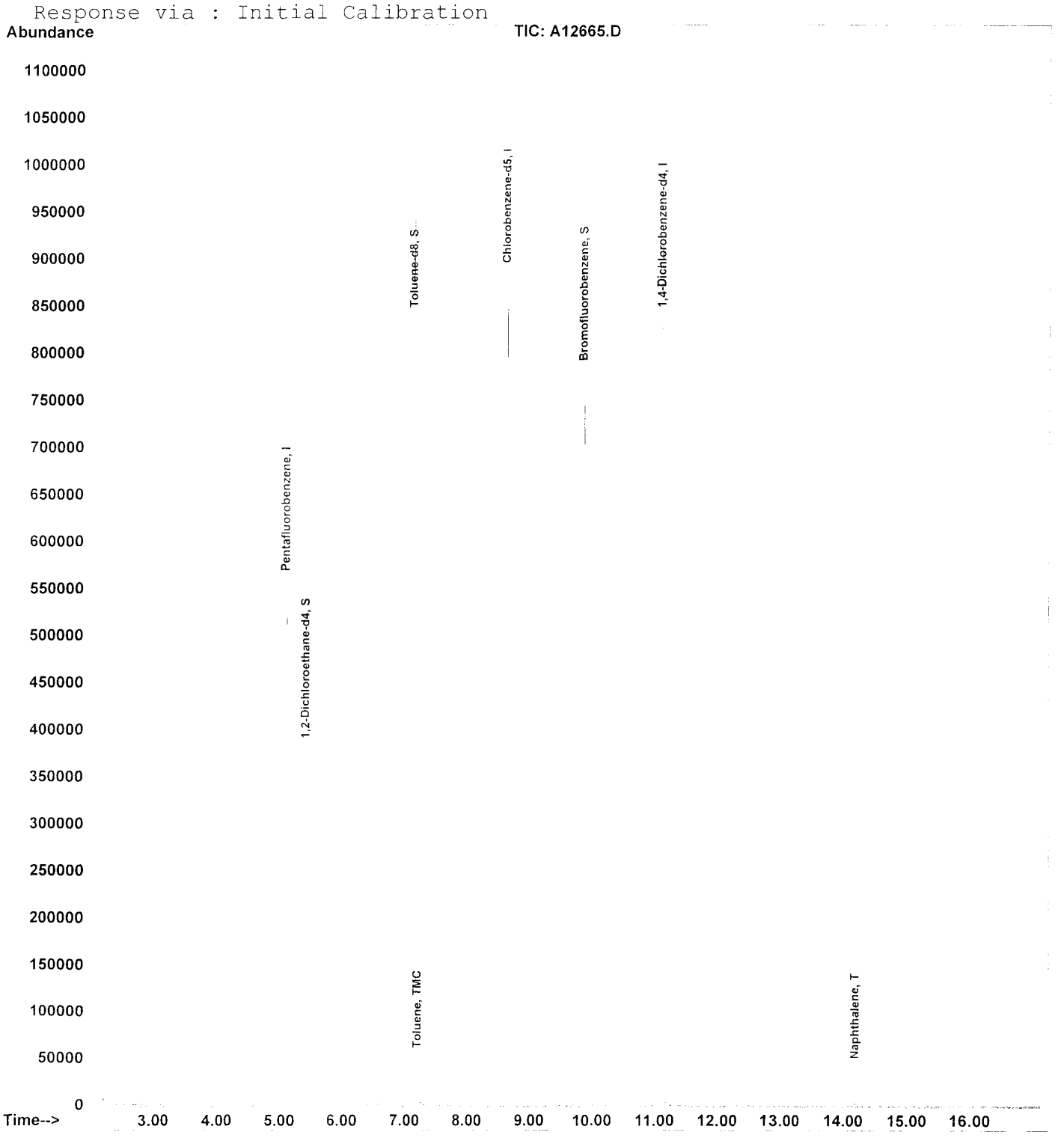
File only

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030805\A12665.D Vial: 4
Acq On : 8 Mar 2005 19:25 Operator: RPS
Sample : 7738-002 BNR-1120-MW35-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 19:42 19105 Quant Results File: 0308BTEX.RES

Method : C:\HPCHEM\1\DATA\A030805\0308BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030405\A12613.D Vial: 5
Acq On : 4 Mar 2005 14:50 Operator: RPS
Sample : 7738-003 BNR-1120-MW2-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 15:07 19105 Quant Results File: 0304BTEX.RES

Quant Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0304BTEX

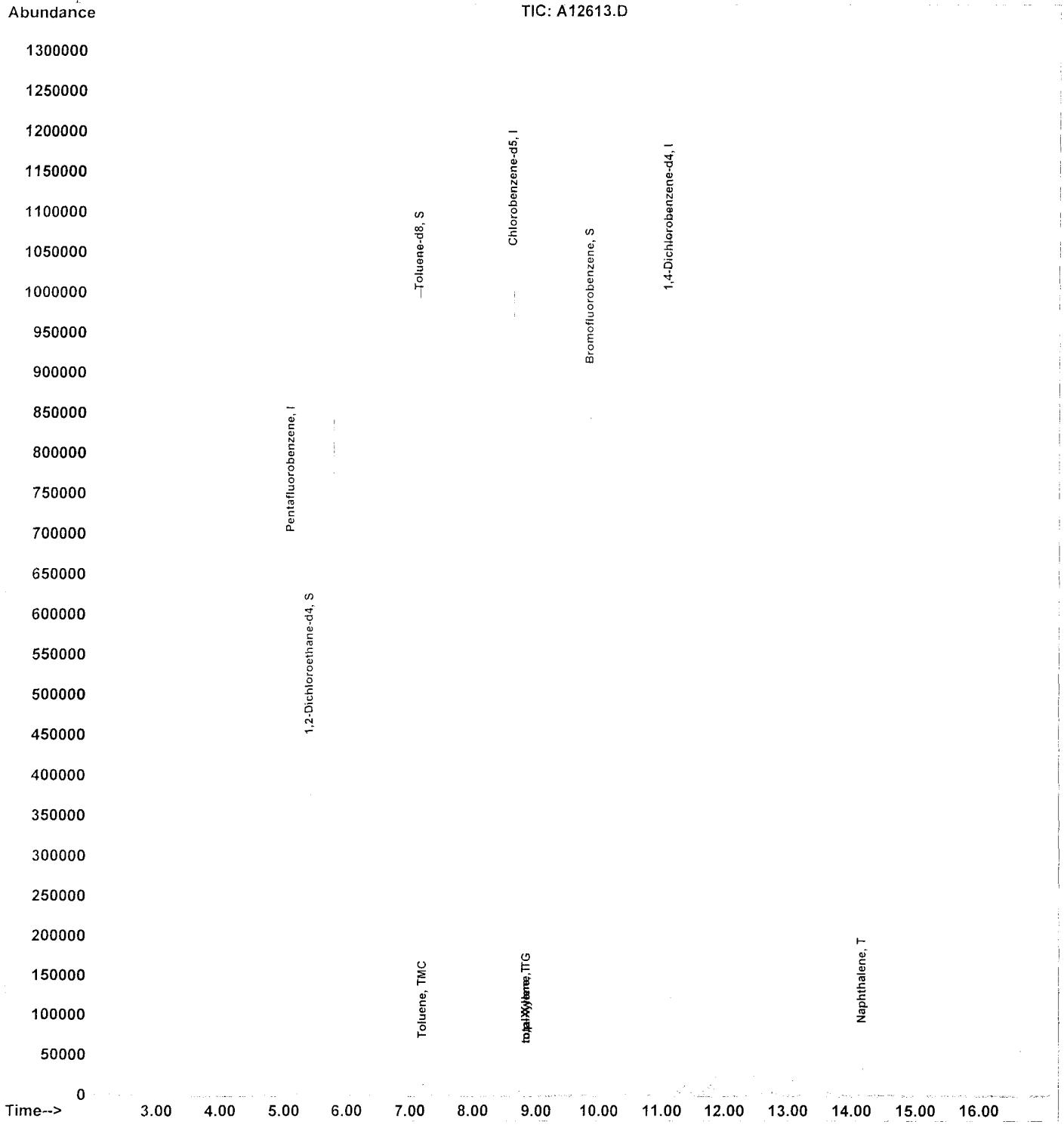
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.12	168	429131	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.64	117	569584	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.12	152	338104	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.43	65	297348	47.23	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.46%			
6) Toluene-d8	7.16	98	699780	47.92	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.84%			
13) Bromofluorobenzene	9.87	95	304902	42.68	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 85.36%			
Target Compounds						Qvalue
7) Toluene	7.22	91	4399	0.24	ug\L	99
9) m,p-Xylene	8.86	106	2410	0.32	ug\L	97
11) total-Xylene	8.86	106	3226m	0.43	ug\L	
14) Naphthalene	14.18	128	44164	2.78	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030405\A12613.D Vial: 5
Acq On : 4 Mar 2005 14:50 Operator: RPS
Sample : 7738-003 BNR-1120-MW2-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 15:07 19105 Quant Results File: 0304BTEX.RES

Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030405\A12614.D Vial: 6
Acq On : 4 Mar 2005 15:18 Operator: RPS
Sample : 7738-004 BNR-1120-MW4-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 15:35 19105 Quant Results File: 0304BTEX.RES

Quant Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0304BTEX

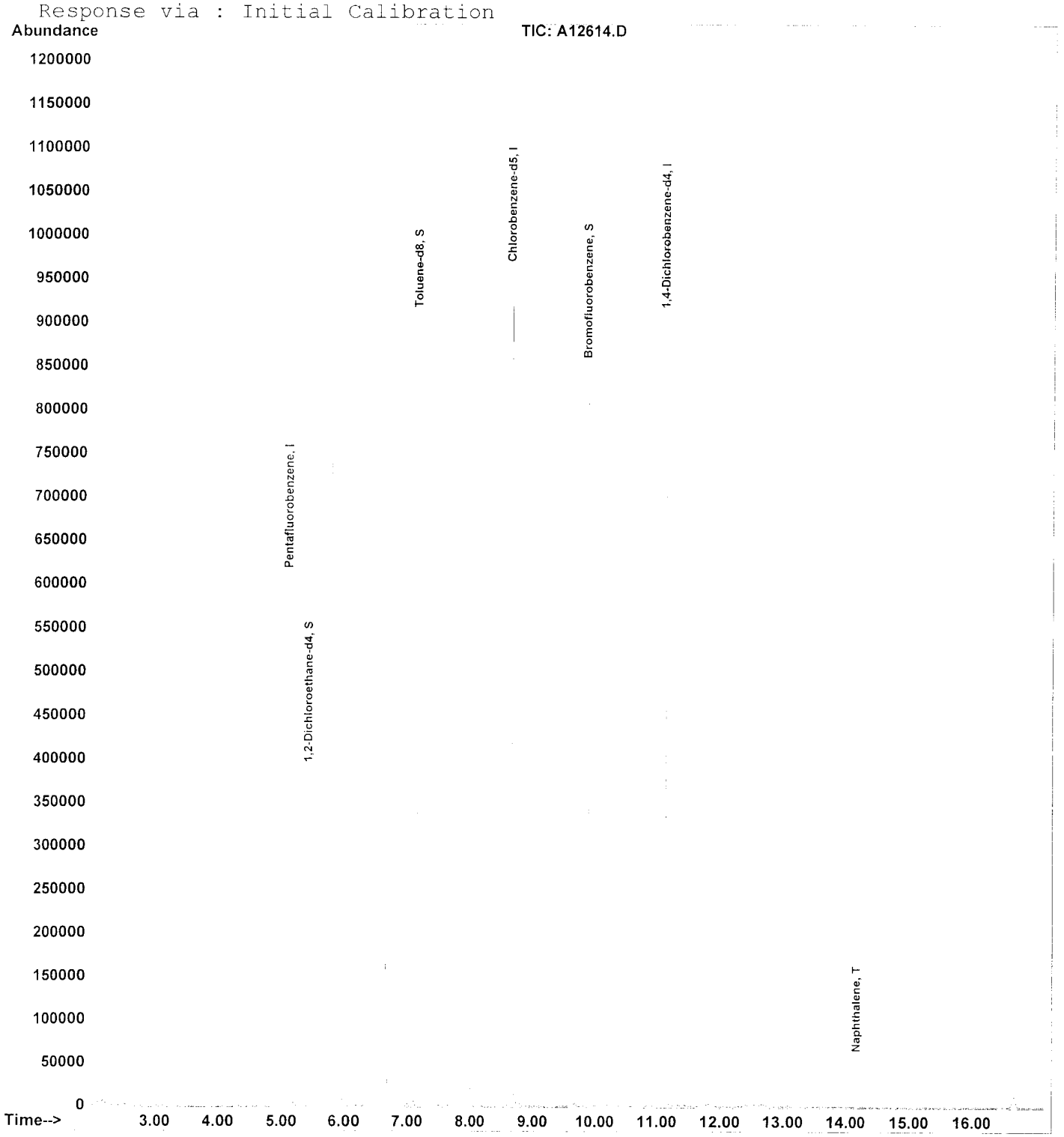
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.13	168	387569	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.64	117	520248	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.12	152	314406	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.44	65	277247	48.76	ug\L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.52%			
6) Toluene-d8	7.17	98	665872	49.92	ug\L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.84%			
13) Bromofluorobenzene	9.88	95	295237	44.45	ug\L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 88.90%			
Target Compounds						Qvalue
14) Naphthalene	14.19	128	17962	1.22	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030405\A12614.D Vial: 6
Acq On : 4 Mar 2005 15:18 Operator: RPS
Sample : 7738-004 BNR-1120-MW4-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 15:35 19105 Quant Results File: 0304BTEX.RES

Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030405\A12615.D Vial: 7
Acq On : 4 Mar 2005 15:45 Operator: RPS
Sample : 7738-005 BNR-1120-MW5R-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 16:15 19105 Quant Results File: 0304BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0304BTEX

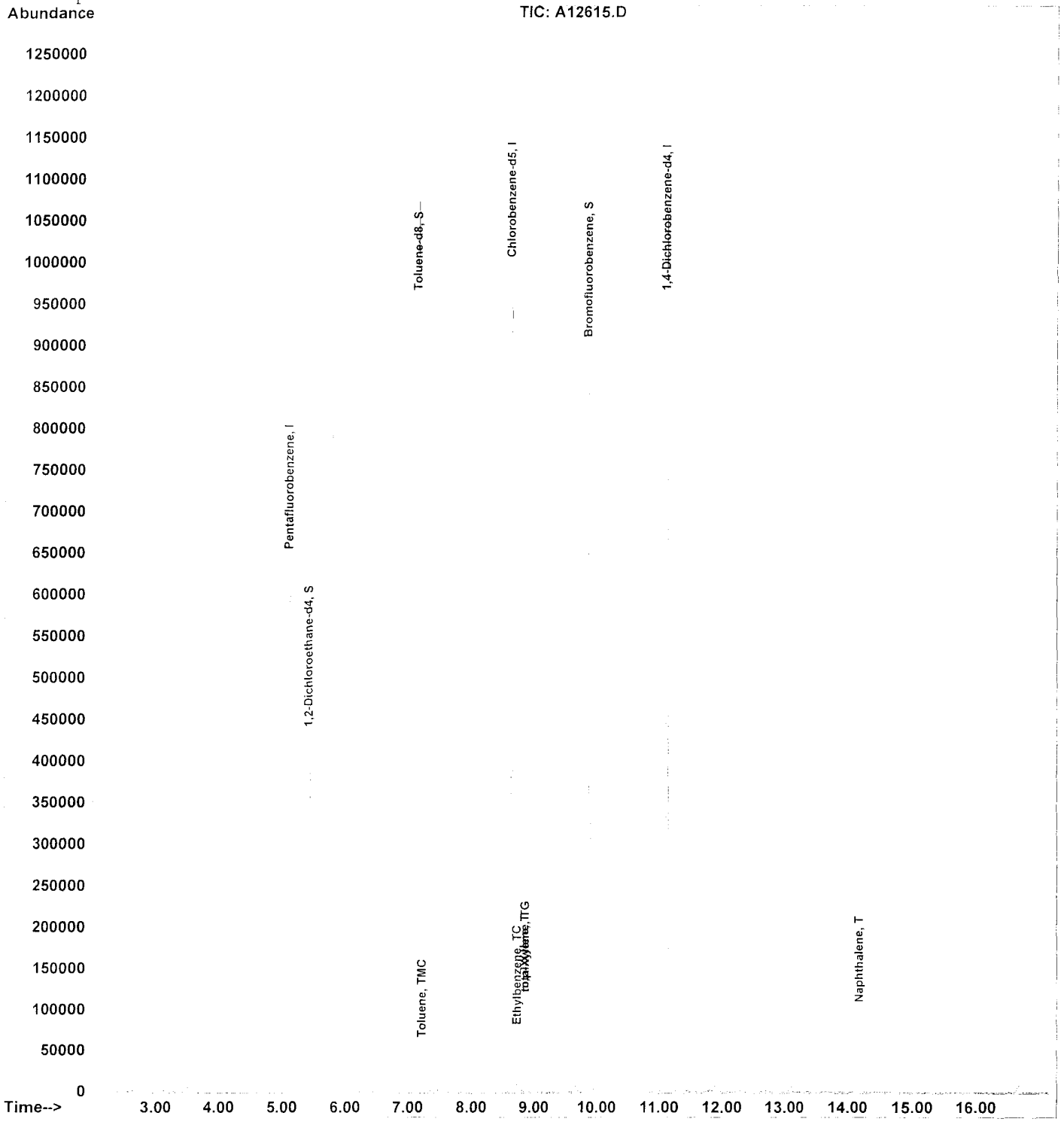
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.14	168	414356	50.00	ug\L	0.02
5) Chlorobenzene-d5	8.65	117	543341	50.00	ug\L	0.02
12) 1,4-Dichlorobenzene-d4	11.13	152	321933	50.00	ug\L	0.02
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.44	65	293617	48.30	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.60%			
6) Toluene-d8	7.18	98	701405	50.35	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.70%			
13) Bromofluorobenzene	9.89	95	302254	44.44	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 88.88%			
Target Compounds						Qvalue
7) Toluene	7.24	91	3623	0.21	ug\L	95
8) Ethylbenzene	8.75	91	19445	0.96	ug\L	95
9) m,p-Xylene	8.88	106	19830	2.72	ug\L	98
11) total-Xylene	8.88	106	19830	2.80	ug\L	99
14) Naphthalene	14.20	128	76129	5.03	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030405\A12615.D Vial: 7
Acq On : 4 Mar 2005 15:45 Operator: RPS
Sample : 7738-005 BNR-1120-MW5R-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 16:15 19105 Quant Results File: 0304BTEX.RES

Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030405\A12616.D Vial: 8
Acq On : 4 Mar 2005 16:13 Operator: RPS
Sample : 7738-006 BNR-1120-MW01-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 16:30 19105 Quant Results File: 0304BTEX.RES

Quant Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0304BTEX

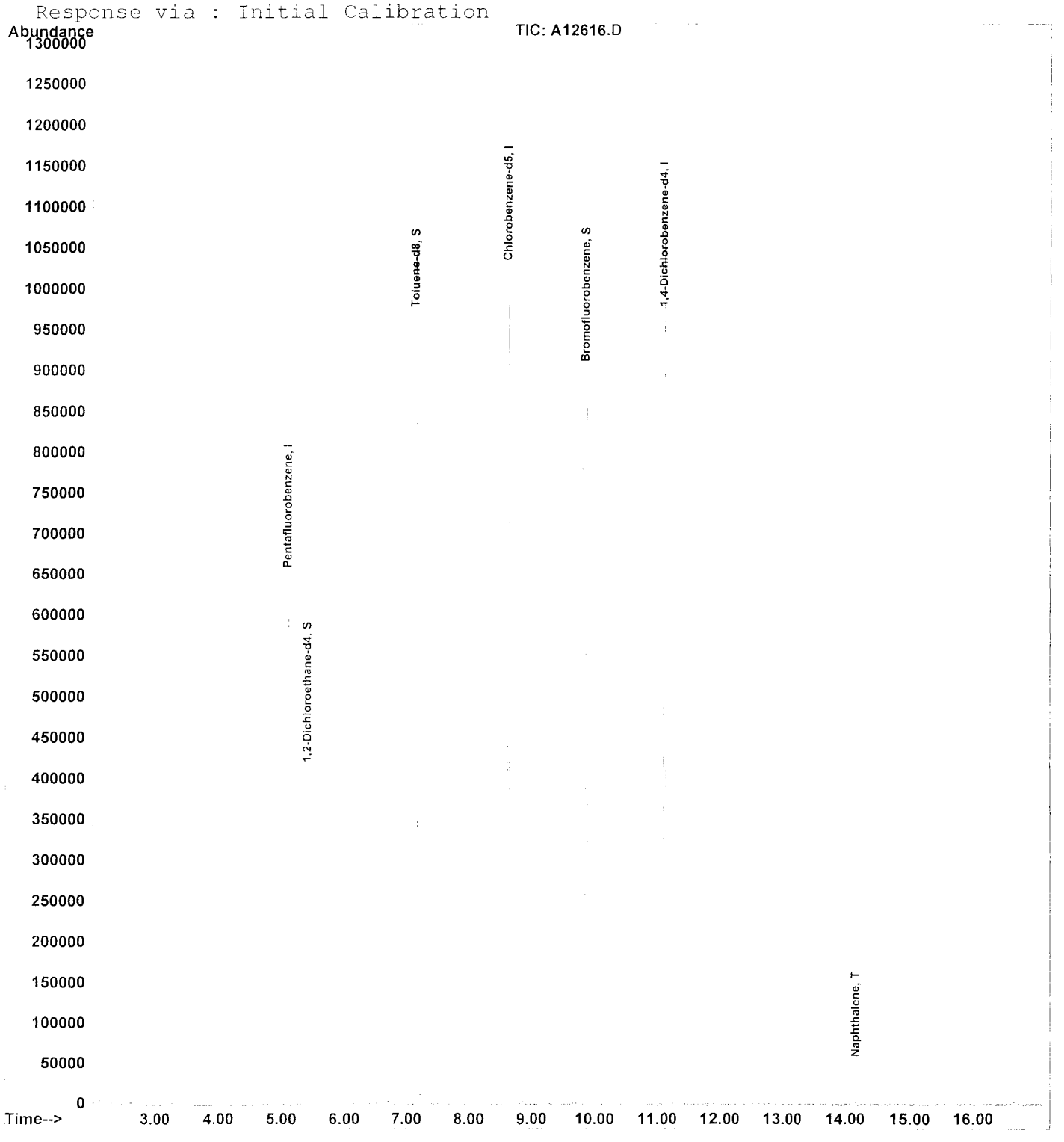
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.13	168	416156	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.64	117	555011	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.12	152	334666	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.43	65	291407	47.73	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.46%			
6) Toluene-d8	7.16	98	698582	49.10	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.20%			
13) Bromofluorobenzene	9.87	95	305917	43.27	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 86.54%			
Target Compounds						Qvalue
14) Naphthalene	14.19	128	5857	0.37	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030405\A12616.D Vial: 8
Acq On : 4 Mar 2005 16:13 Operator: RPS
Sample : 7738-006 BNR-1120-MW01-06 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 16:30 19105 Quant Results File: 0304BTEX.RES

Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030405\A12617.D Vial: 9
Acq On : 4 Mar 2005 16:41 Operator: RPS
Sample : 7738-007 TRIP BLANK Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 8:12 19105 Quant Results File: 0304BTEX.RES

Quant Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0304BTEX

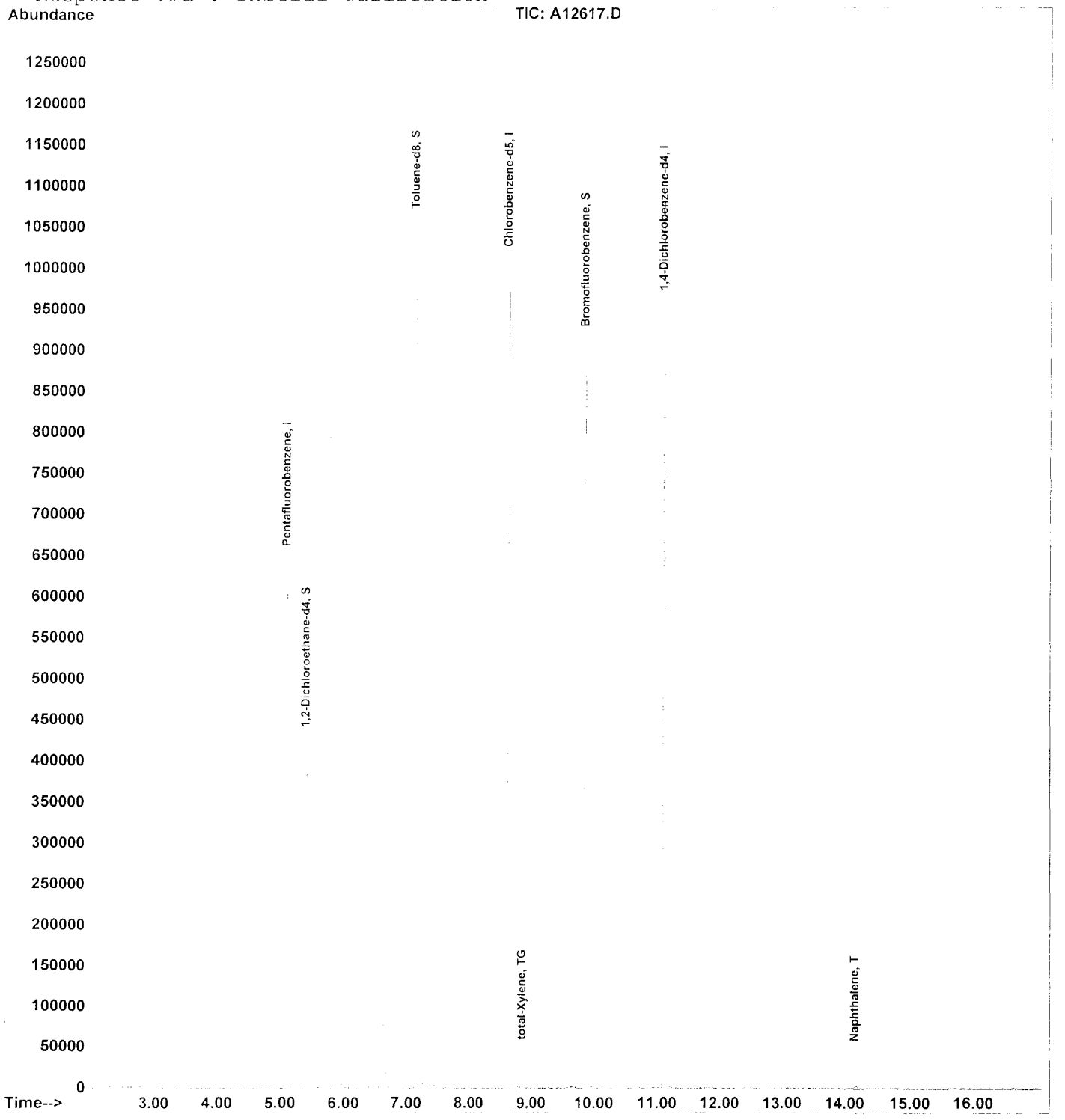
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.13	168	413545	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.64	117	545874	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.12	152	323301	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.43	65	297356	49.01	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.02%			
6) Toluene-d8	7.16	98	698263	49.89	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.78%			
13) Bromofluorobenzene	9.87	95	301557	44.15	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 88.30%			
Target Compounds						Qvalue
11) total-Xylene	8.86	106	1582m	0.22	ug\L	
14) Naphthalene	14.19	128	4858	0.32	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030405\A12617.D Vial: 9
Acq On : 4 Mar 2005 16:41 Operator: RPS
Sample : 7738-007 TRIP BLANK Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 8:12 19105 Quant Results File: 0304BTEX.RES

Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\A030405\A12608.D Vial: 2
Acq On : 4 Mar 2005 12:21 Operator: RPS
Sample : BLK Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 12:38 19105 Quant Results File: 0304BTEX.RES

Quant Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0304BTEX

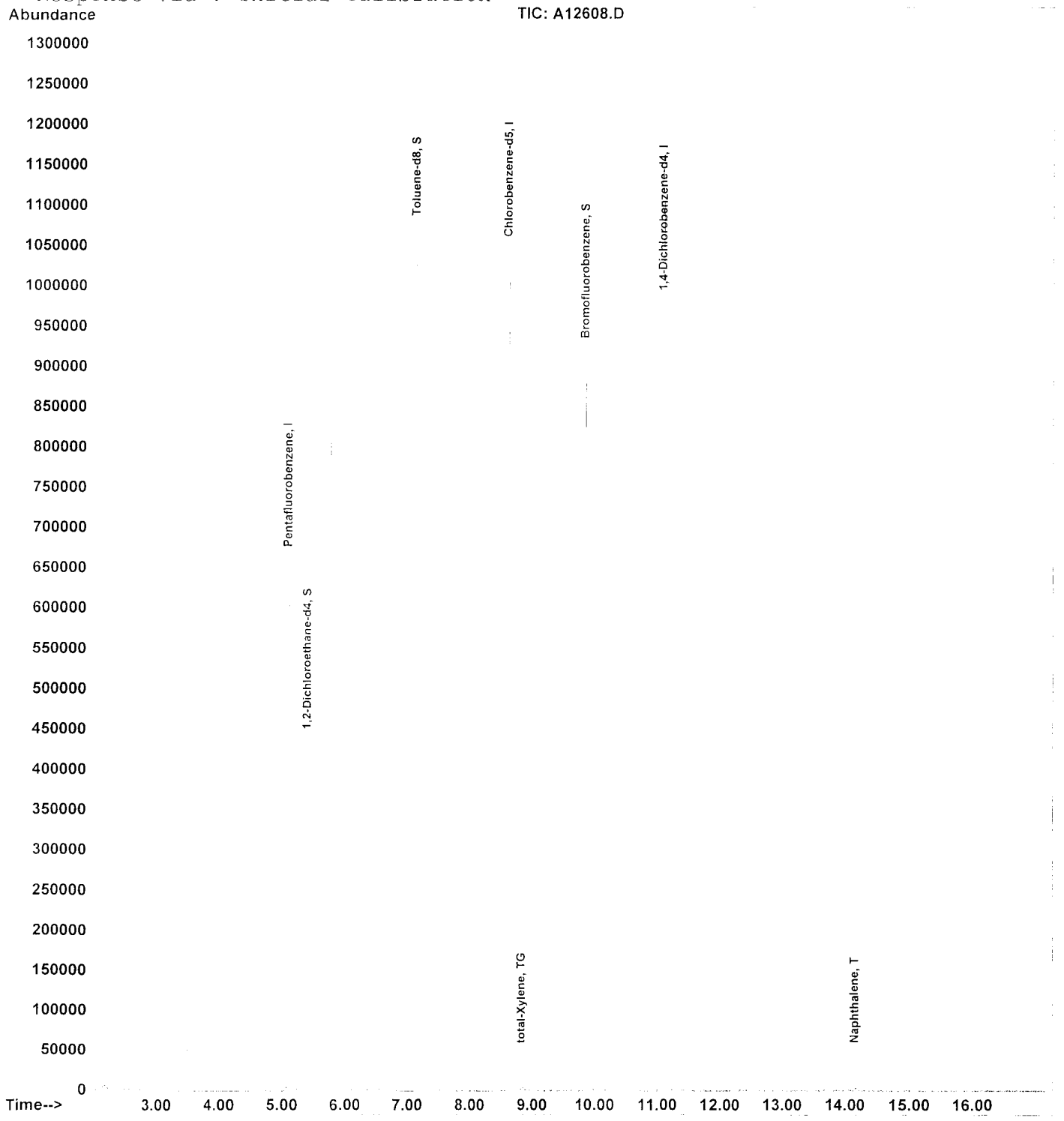
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.12	168	417683	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	561778	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	334984	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.43	65	298676	48.74	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.48%			
6) Toluene-d8	7.16	98	700656	48.65	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.30%			
13) Bromofluorobenzene	9.87	95	302662	42.76	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 85.52%			
Target Compounds						Qvalue
11) total-Xylene	8.85	106	1819m	0.25	ug\L	
14) Naphthalene	14.17	128	5233	0.33	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030405\A12608.D Vial: 2
Acq On : 4 Mar 2005 12:21 Operator: RPS
Sample : BLK Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 12:38 19105 Quant Results File: 0304BTEX.RES

Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\A030405\A12609.D Vial: 1
Acq On : 4 Mar 2005 12:49 Operator: RPS
Sample : BKS Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 13:06 19105 Quant Results File: 0304BTEX.RES

Quant Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0304BTEX

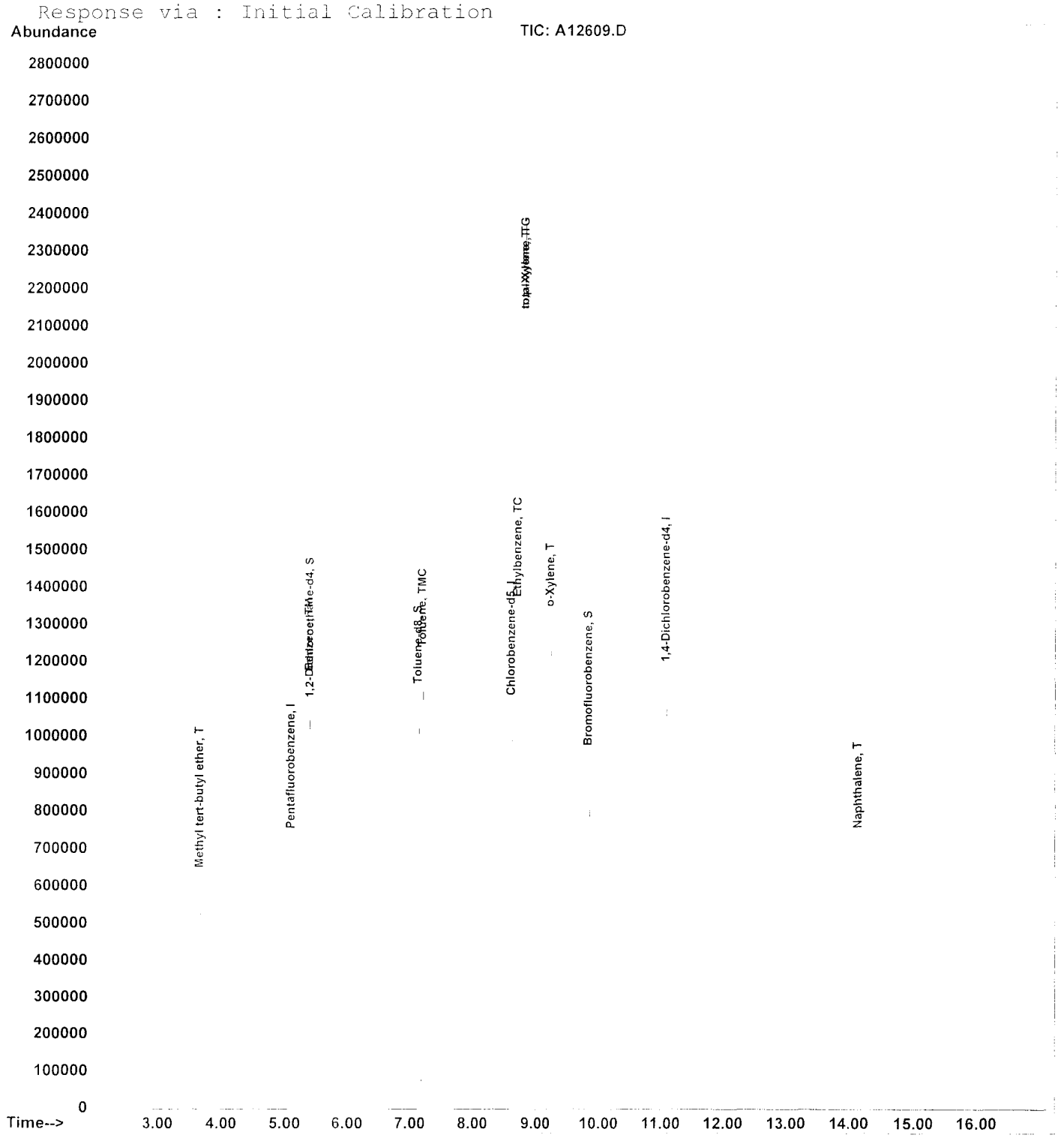
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.12	168	424905	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	564500	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.12	152	333155	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.43	65	292889	46.98	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.96%			
6) Toluene-d8	7.16	98	679193	46.93	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.86%			
13) Bromofluorobenzene	9.87	95	300270	42.66	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 85.32%			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	556179	44.99	ug\L	99
4) Benzene	5.41	78	722493	43.14	ug\L	100
7) Toluene	7.22	91	814814	45.27	ug\L	99
8) Ethylbenzene	8.73	91	950806	45.05	ug\L	99
9) m,p-Xylene	8.85	106	665593	87.93	ug\L	98
10) o-Xylene	9.27	106	329768	45.41	ug\L	97
11) total-Xylene	8.85	106	994956m	135.37	ug\L	
14) Naphthalene	14.17	128	822621	52.52	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030405\A12609.D Vial: 1
Acq On : 4 Mar 2005 12:49 Operator: RPS
Sample : BKS Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 13:06 19105 Quant Results File: 0304BTEX.RES

Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030405\A12618.D Vial: 10
Acq On : 4 Mar 2005 17:09 Operator: RPS
Sample : 7738-004MS BNR-1120-MW4-06MS Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 17:27 19105 Quant Results File: 0304BTEX.RES

Quant Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0304BTEX

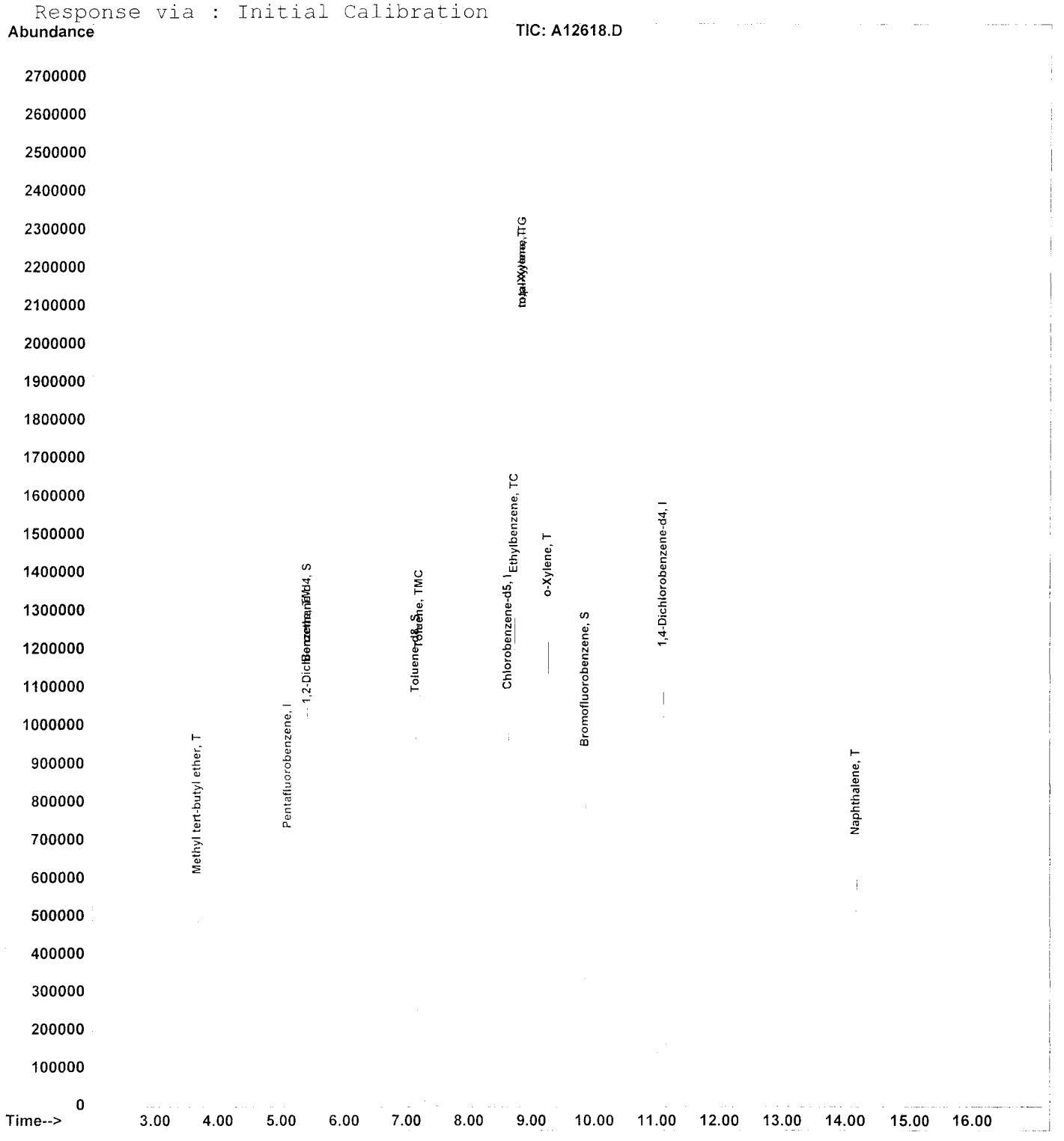
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.13	168	417712	50.00 ug\L	0.00
5) Chlorobenzene-d5	8.64	117	549536	50.00 ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.12	152	333221	50.00 ug\L	0.00
System Monitoring Compounds					
3) 1,2-Dichloroethane-d4	5.43	65	277791	45.33 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 90.66%		
6) Toluene-d8	7.16	98	661629	46.96 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.92%		
13) Bromofluorobenzene	9.87	95	295000	41.90 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.80%		
Target Compounds					Qvalue
2) Methyl tert-butyl ether	3.69	73	506394	41.67 ug\L	99
4) Benzene	5.42	78	699818	42.51 ug\L	100
7) Toluene	7.23	91	788096	44.98 ug\L	100
8) Ethylbenzene	8.73	91	939068	45.70 ug\L	100
9) m,p-Xylene	8.86	106	658681	89.38 ug\L	97
10) o-Xylene	9.28	106	331444	46.89 ug\L	100
11) total-Xylene	8.86	106	989679m	138.31 ug\L	
14) Naphthalene	14.19	128	765644	48.87 ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030405\A12618.D Vial: 10
Acq On : 4 Mar 2005 17:09 Operator: RPS
Sample : 7738-004MS BNR-1120-MW4-06MS Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 17:27 19105 Quant Results File: 0304BTEX.RES

Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030405\A12619.D Vial: 11
Acq On : 4 Mar 2005 17:37 Operator: RPS
Sample : 7738-004MSD BNR-1120-MW4-06MSD Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 17:54 19105 Quant Results File: 0304BTEX.RES

Quant Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0304BTEX

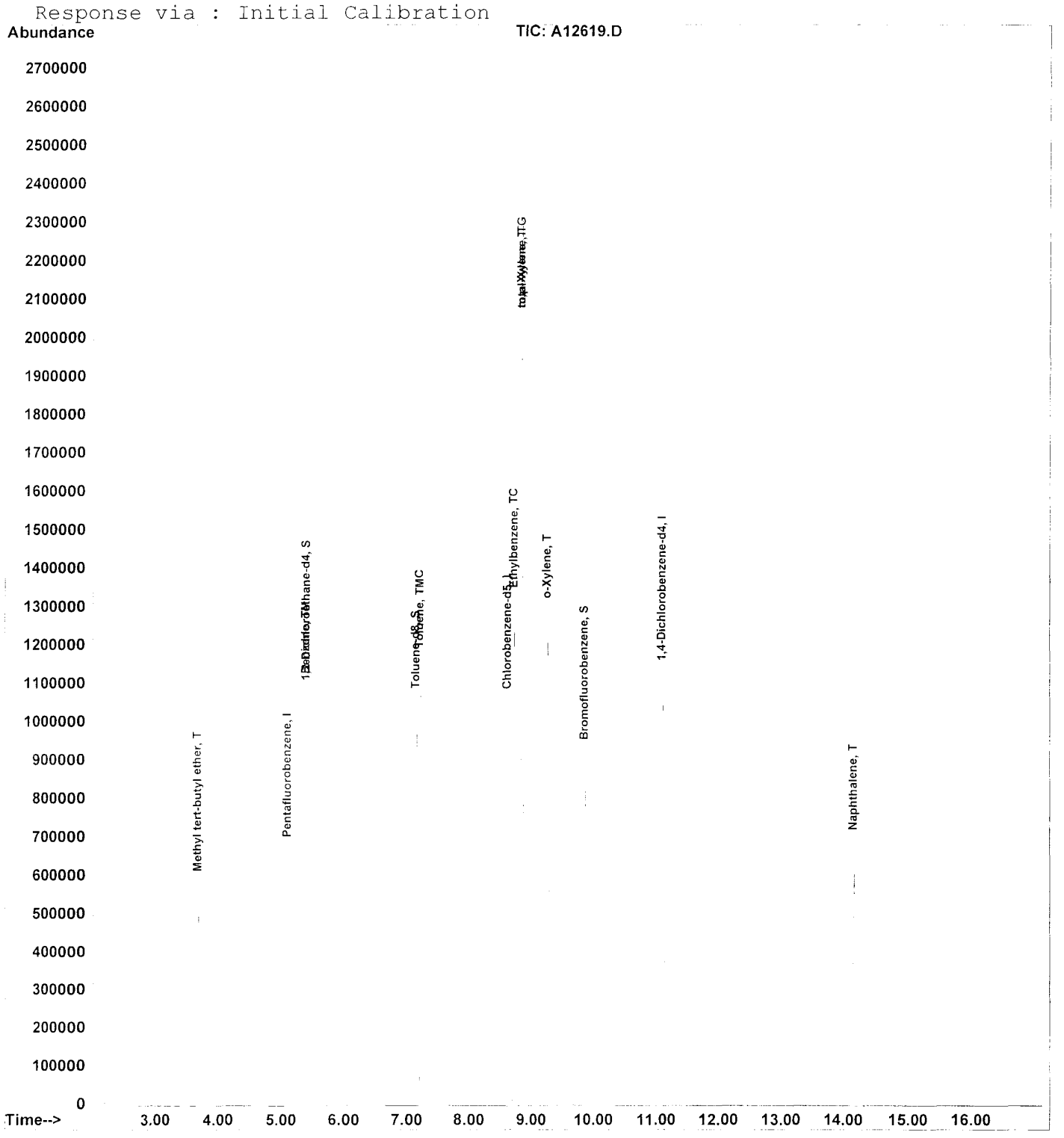
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.13	168	398337	50.00 ug\L	0.00
5) Chlorobenzene-d5	8.64	117	552595	50.00 ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.12	152	323754	50.00 ug\L	0.00
System Monitoring Compounds					
3) 1,2-Dichloroethane-d4	5.43	65	280179	47.94 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.88%		
6) Toluene-d8	7.16	98	657827	46.43 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 92.86%		
13) Bromofluorobenzene	9.87	95	290545	42.48 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 84.96%		
Target Compounds					Qvalue
2) Methyl tert-butyl ether	3.69	73	509925	44.00 ug\L	98
4) Benzene	5.42	78	693888	44.20 ug\L	100
7) Toluene	7.23	91	783700	44.48 ug\L	100
8) Ethylbenzene	8.74	91	919616	44.51 ug\L	100
9) m,p-Xylene	8.86	106	651225	87.88 ug\L	99
10) o-Xylene	9.28	106	328270	46.18 ug\L	98
11) total-Xylene	8.86	106	979105m	136.08 ug\L	
14) Naphthalene	14.19	128	772521	50.75 ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030405\A12619.D Vial: 11
Acq On : 4 Mar 2005 17:37 Operator: RPS
Sample : 7738-004MSD BNR-1120-MW4-06MSD Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 4 17:54 19105 Quant Results File: 0304BTEX.RES

Method : c:\hpchem\1\data\A030405\0304BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



VOA GC/MS CALIBRATION CHECKLIST
SW-846-8260B

DATE / INSTRUMENT: 01/04/05, HP MSA	METHOD: 8260B
MATRIX: BTEX, M and Naphthalene in Water	

Are all standards within expiration dates for both stock and serial standards?	Y	N	NA
Are Tuning results compliant with method?	Y	N	NA
Are all Initial Calibration RSDs compliant for CCCs and non-CCC compounds?	Y	N	NA
If RSDs are non-compliant, was initial calibration curve constructed using one of the alternative methods from method 8000B? (List analytes below)	Y	N	NA

Is the runlog completely filled out (including review signature/date)? Y N NA

Are all mistakes single lined, initialled, and dated? Y N NA

Analyst: RPS	Reviewer: Thomas A. Gatti
Date: 01/05/05 Time: 11:00	Date: 1/5/05 Time: 16:26

Directory: c:\hpchem\1\data\a010405

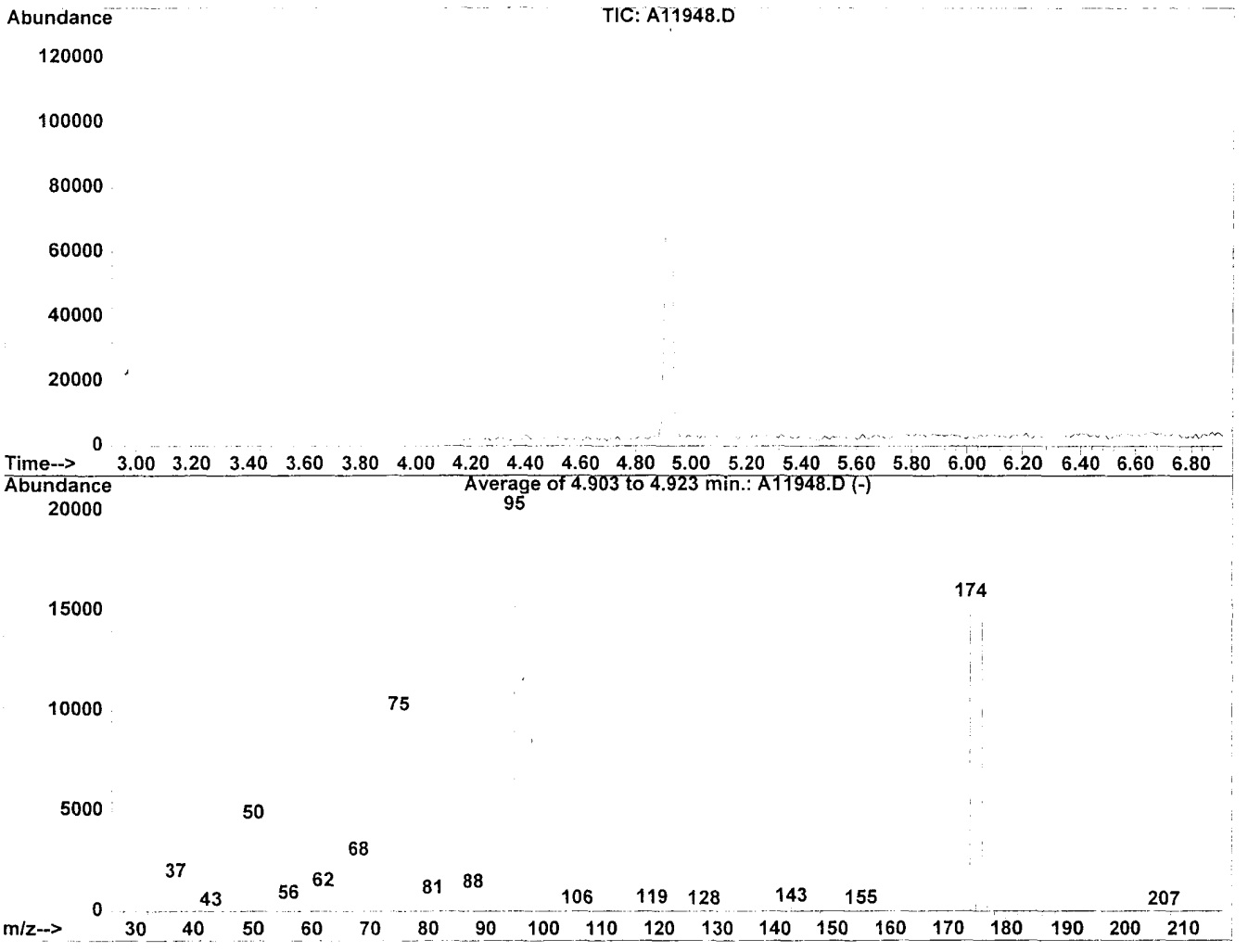
Injection Log

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	a11937.d	1.	VTUNA01		4 Jan 05 10:40
2	1	a11938.d	1.	VSTD001A01	ICAL 1ppb	4 Jan 05 11:03
3	2	a11939.d	1.	VSTD005A01	ICAL 5ppb	4 Jan 05 11:30
4	3	a11940.d	1.	VSTD010A01	ICAL 10ppb	4 Jan 05 11:58
5	4	a11941.d	1.	VSTD020A01	ICAL 20ppb	4 Jan 05 12:25
6	5	a11942.d	1.	VSTD050A01	ICAL 50ppb	4 Jan 05 12:52
7	6	a11943.d	1.	VSTD100A01	ICAL 100ppb	4 Jan 05 13:19
8	7	a11944.d	1.	VSTD200A01	ICAL 200ppb	4 Jan 05 13:47
9	9	a11945.d	1.	VIBLK01	ICAL 1ppb	4 Jan 05 14:43
10	1	a11946.d	1.	VSTD001A01	ICAL 1ppb	4 Jan 05 15:14
11	1	a11947.d	1.	VSTD050A01	ICV 50ppb	4 Jan 05 15:50
12		a11949.d	1.			

VOA Tune 05GC001
BTEX Std - 04GC002
BTEX ICV - V04057
8260 ISTD - 04GC003
8260 SSTD - 04GC004

BFB

Data File : C:\HPCHEM\1\DATA\A010505\A11948.D Vial: 1
Acq On : 5 Jan 2005 9:45 Operator: RPS
Sample : VTUNA02 Inst : HP-MSA
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :



AutoFind: Scans 90, 91, 92; Background Corrected with Scan 85

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	4340	PASS
75	95	30	66	49.3	9748	PASS
95	95	100	100	100.0	19753	PASS
96	95	5	9	7.4	1466	PASS
173	174	0.00	2	0.6	100	PASS
174	95	50	120	78.0	15417	PASS
175	174	4	9	7.3	1119	PASS
176	174	95	101	97.3	14999	PASS
177	176	5	9	7.1	1066	PASS

A11948.D BFB01.M Wed Jan 05 09:53:33 2005 HP-MSA

Response Factor Report HP-MSA

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration

Calibration Files
1 =A11946.D 5 =A11939.D 10 =A11940.D
20 =A11941.D 50 =A11942.D 100 =A11943.D

		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Methyl tert-butyl e	1.410	1.459	1.544	1.558	1.434	1.407	1.455	4.90
3)	S	1,2-Dichloroethane-		0.772	0.820	0.763	0.722	0.678	0.734	8.76
4)	TM	Benzene	2.080	2.019	2.115	2.090	1.898	1.850	1.971	7.24
5)	I	Chlorobenzene-d5	----------ISTD----------							
6)	S	Toluene-d8		1.284	1.348	1.326	1.310	1.250	1.282	4.91
7)	TMC	Toluene	1.760	1.617	1.670	1.694	1.545	1.496	1.594	8.20
8)	TC	Ethylbenzene	2.112	1.878	1.984	1.997	1.799	1.726	1.870	9.54
9)	T	m,p-Xylene	0.719	0.671	0.705	0.696	0.636	0.597	0.671	6.91
10)	T	o-Xylene	0.683	0.637	0.682	0.681	0.623	0.610	0.643	6.09
11)	TG	total-Xylene	0.725	0.659	0.696	0.690	0.631	0.601	0.651	9.17
12)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
13)	S	Bromofluorobenzene		1.025	1.068	1.208	1.001	1.134	1.056	10.11
14)	T	Naphthalene		1.954	2.312	2.680	2.564	2.562	2.351	12.88

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11946.D Vial: 1
Acq On : 4 Jan 2005 15:14 Operator: RPS
Sample : VSTD001A01 Inst : HP-MSA
Misc : ICAL 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 15:41 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

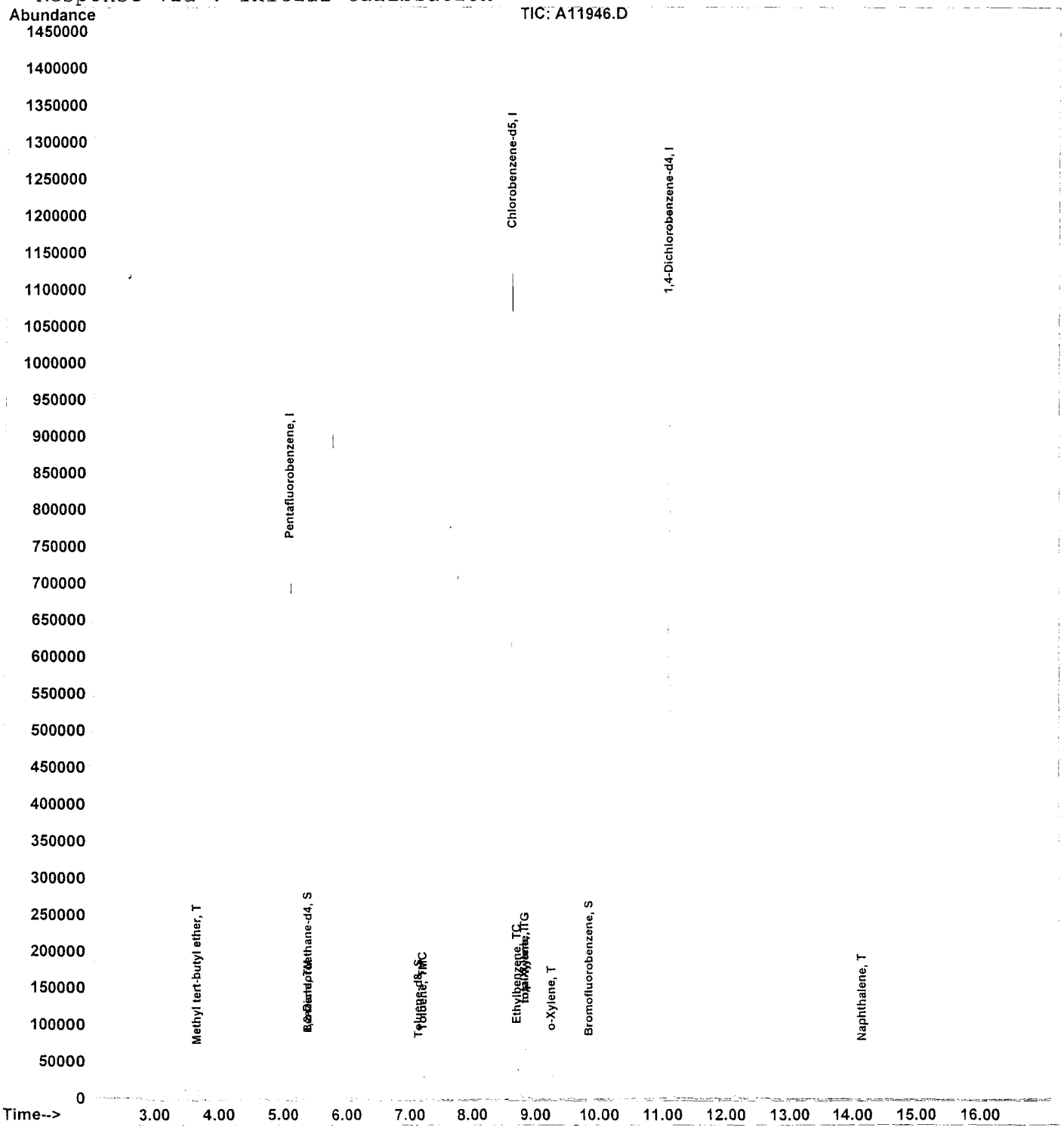
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.12	168	464912	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	624260	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	364861	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	6763	0.99	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 1.98%#			
6) Toluene-d8	7.15	98	15357	0.96	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 1.92%#			
13) Bromofluorobenzene	9.86	95	8749	1.13	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 2.26%#			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	13110	0.97	ug\L	99
4) Benzene	5.41	78	19340	1.06	ug\L	100
7) Toluene	7.22	91	21969	1.10	ug\L	99
8) Ethylbenzene	8.73	91	26364	1.13	ug\L	94
9) m,p-Xylene	8.85	106	17943	2.14	ug\L	91
10) o-Xylene	9.27	106	8524	1.06	ug\L	97
11) total-Xylene	8.85	106	27158m	3.34	ug\L	
14) Naphthalene	14.18	128	24945	1.45	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11946.D Vial: 1
Acq On : 4 Jan 2005 15:14 Operator: RPS
Sample : VSTD001A01 Inst : HP-MSA
Misc : ICAL 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 15:41 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11939.D
Acq On : 4 Jan 2005 11:30
Sample : VSTD005A01
Misc : ICAL 5ppb
MS Integration Params: rteint.p
Quant Time: Jan 4 13:12 19105

Vial: 2
Operator: RPS
Inst : HP-MSA
Multiplr: 1.00
Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

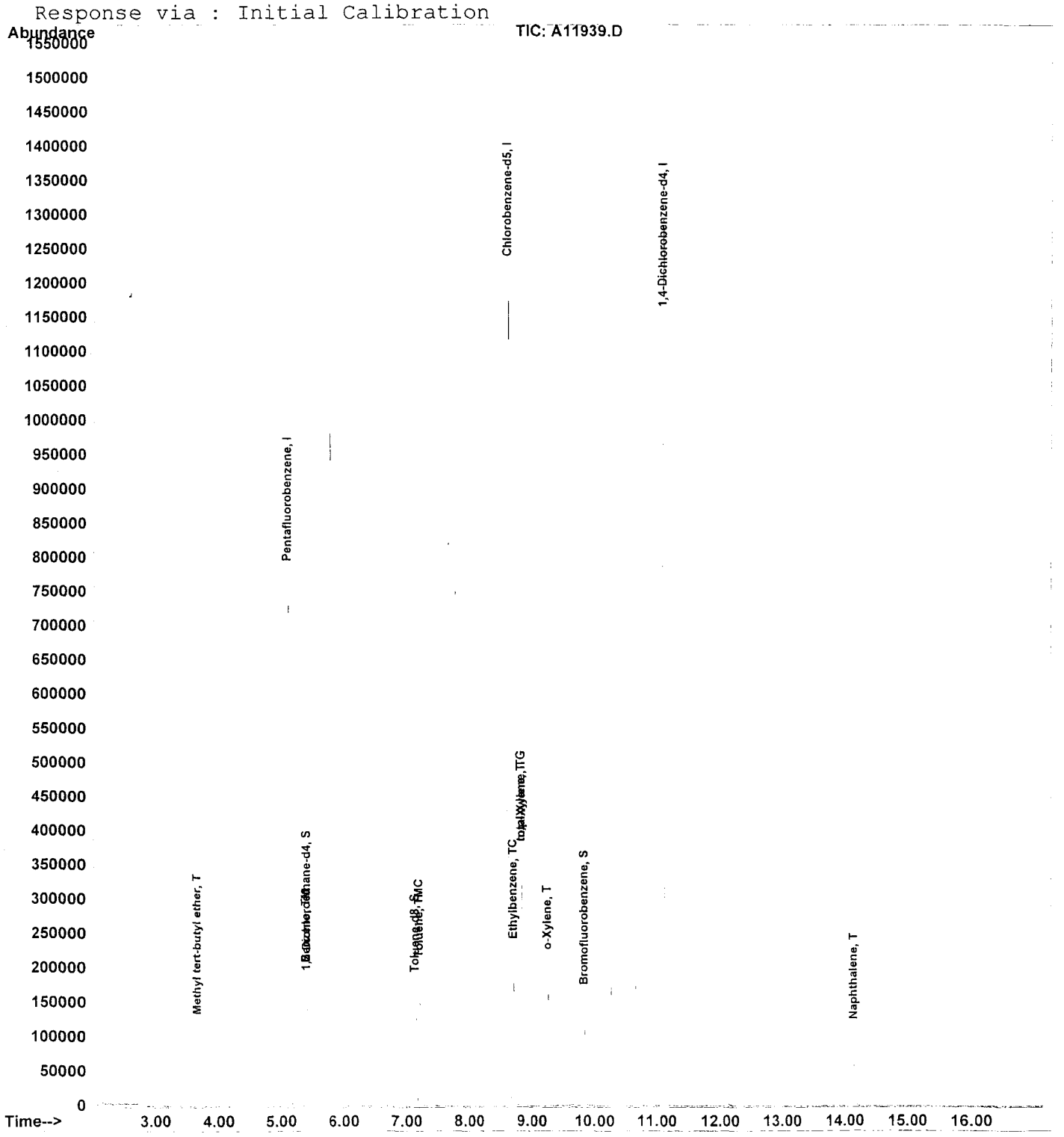
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	489940	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.62	117	661104	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	389343	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	37842	5.35	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 10.70%#			
6) Toluene-d8	7.15	98	84915	4.90	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 9.80%#			
13) Bromofluorobenzene	9.86	95	39904	5.12	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 10.24%#			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	71499	5.95	ug\L	98
4) Benzene	5.40	78	98919	6.09	ug\L	100
7) Toluene	7.21	91	106888	5.84	ug\L	99
8) Ethylbenzene	8.72	91	124127	5.74	ug\L	97
9) m,p-Xylene	8.84	106	88659	11.38	ug\L	99
10) o-Xylene	9.27	106	42103	5.64	ug\L	99
11) total-Xylene	8.84	106	130762m	17.03	ug\L	
14) Naphthalene	14.16	128	76088	3.81	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11939.D Vial: 2
Acq On : 4 Jan 2005 11:30 Operator: RPS
Sample : VSTD005A01 Inst : HP-MSA
Misc : ICAL 5ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:12 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11940.D Vial: 3
Acq On : 4 Jan 2005 11:58 Operator: RPS
Sample : VSTD010A01 Inst : HP-MSA
Misc : ICAL 10ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:13 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

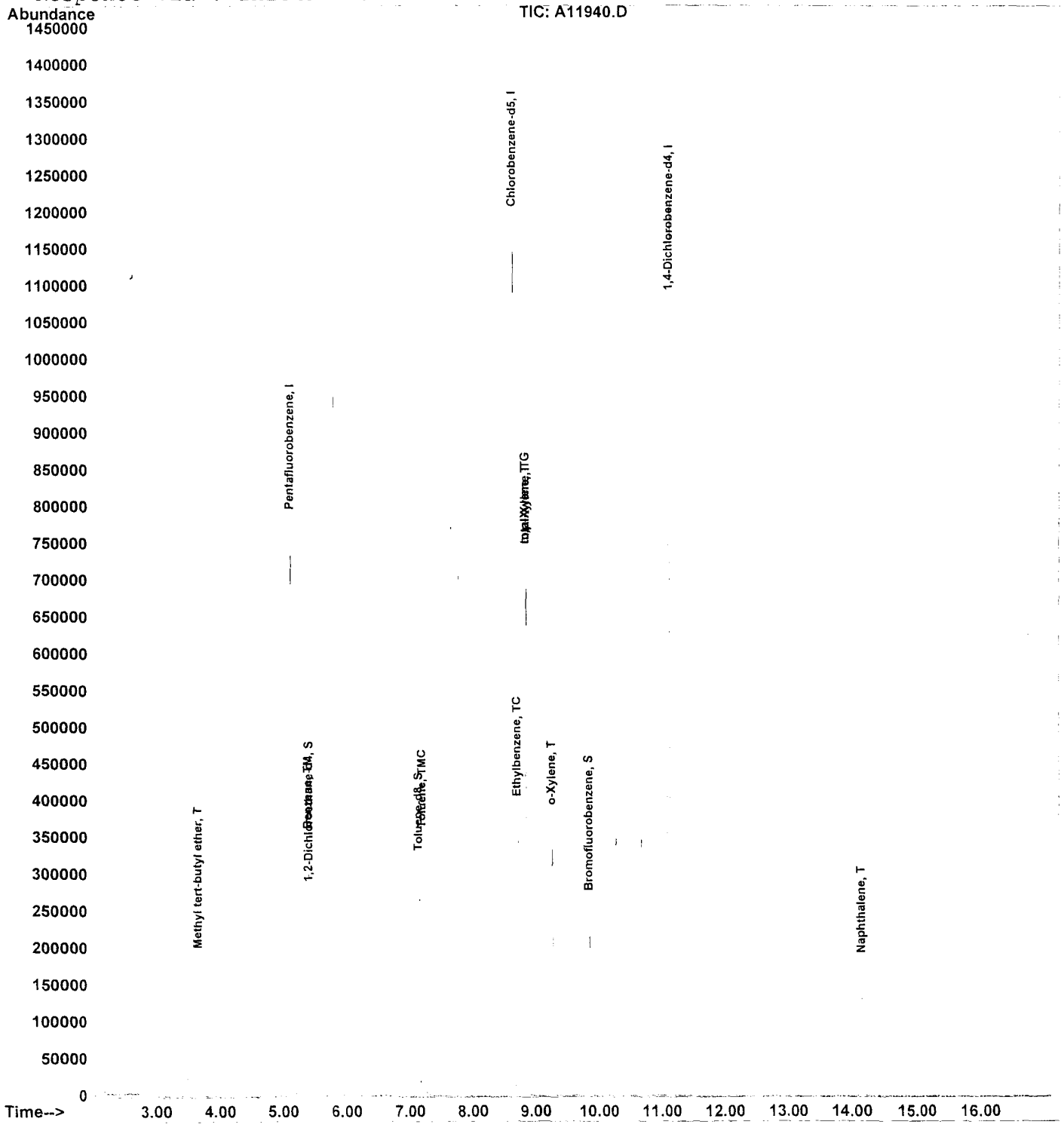
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	478466	50.00 ug\L	0.00
5) Chlorobenzene-d5	8.62	117	654300	50.00 ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.10	152	361766	50.00 ug\L	0.00
System Monitoring Compounds					
3) 1,2-Dichloroethane-d4	5.43	65	78463	10.98 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	21.96%#	
6) Toluene-d8	7.15	98	176357	10.39 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	20.78%#	
13) Bromofluorobenzene	9.85	95	77307	10.55 ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	21.10%#	
Target Compounds					Qvalue
2) Methyl tert-butyl ether	3.68	73	147719	11.84 ug\L	99
4) Benzene	5.41	78	202400	11.90 ug\L	100
7) Toluene	7.22	91	218540	11.43 ug\L	99
8) Ethylbenzene	8.72	91	259621	11.56 ug\L	100
9) m,p-Xylene	8.85	106	184445	22.87 ug\L	98
10) o-Xylene	9.27	106	89187	11.58 ug\L	98
11) total-Xylene	8.85	106	273327m	34.42 ug\L	
14) Naphthalene	14.16	128	167267	10.23 ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11940.D Vial: 3
Acq On : 4 Jan 2005 11:58 Operator: RPS
Sample : VSTD010A01 Inst : HP-MSA
Misc : ICAL 10ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:13 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11941.D Vial: 4
Acq On : 4 Jan 2005 12:25 Operator: RPS
Sample : VSTD020A01 Inst : HP-MSA
Misc : ICAL 20ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:13 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	464454	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	628694	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	298077	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	141746	19.78	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 39.56%#			
6) Toluene-d8	7.15	98	333362	20.18	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 40.36%#			
13) Bromofluorobenzene	9.86	95	144041	23.42	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 46.84%#			

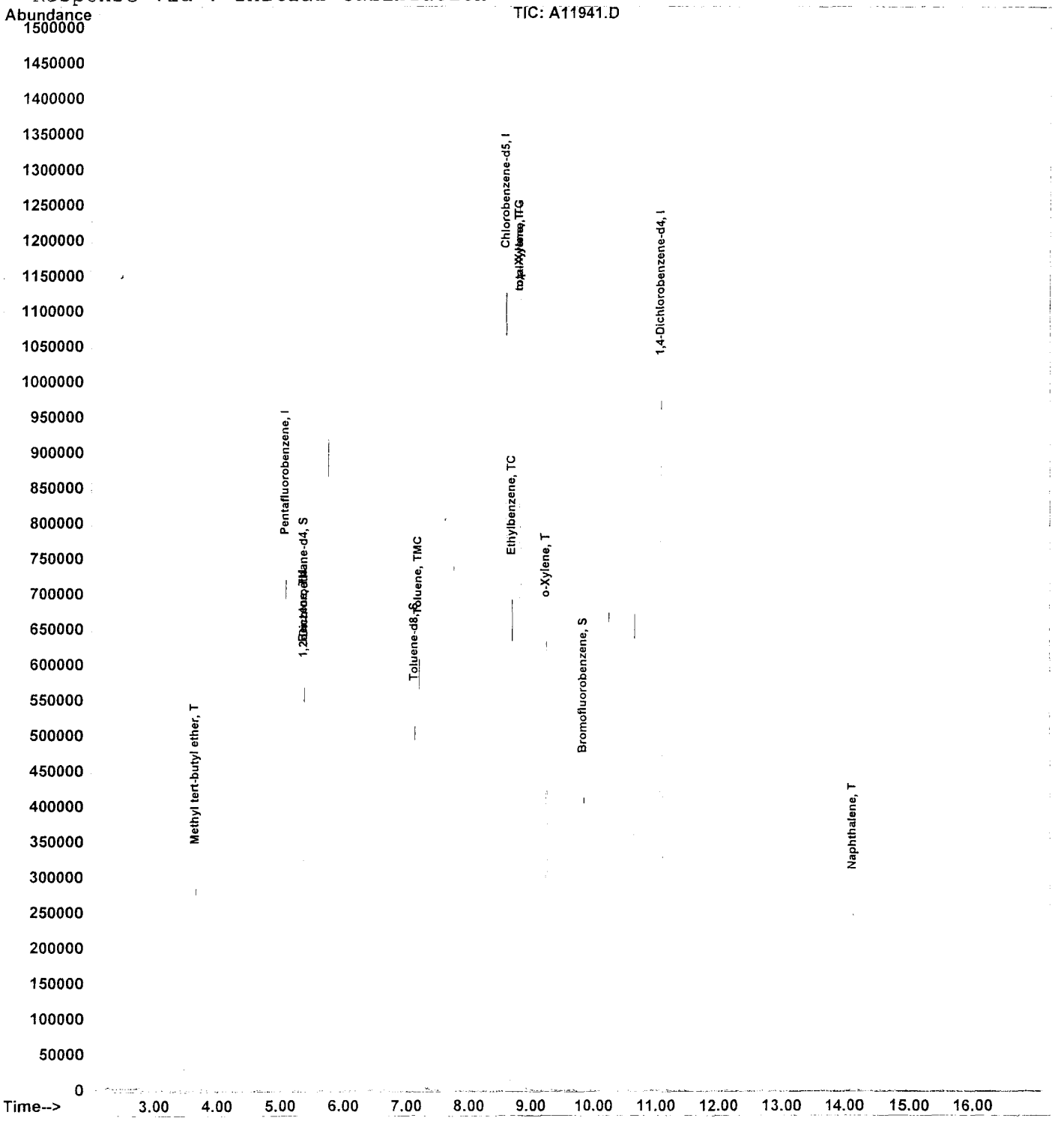
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.67	73	289527	22.85	ug\L	99
4) Benzene	5.41	78	388368	22.46	ug\L	100
7) Toluene	7.22	91	426100	22.39	ug\L	100
8) Ethylbenzene	8.72	91	502226	22.40	ug\L	99
9) m,p-Xylene	8.84	106	350132	43.62	ug\L	98
10) o-Xylene	9.27	106	171318	22.26	ug\L	99
11) total-Xylene	8.84	106	520835m	65.83	ug\L	
14) Naphthalene	14.16	128	319514	23.54	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11941.D Vial: 4
Acq On : 4 Jan 2005 12:25 Operator: RPS
Sample : VSTD020A01 Inst : HP-MSA
Misc : ICAL 20ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:13 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11942.D Vial: 5
Acq On : 4 Jan 2005 12:52 Operator: RPS
Sample : VSTD050A01 Inst : HP-MSA
Misc : ICAL 50ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:11 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

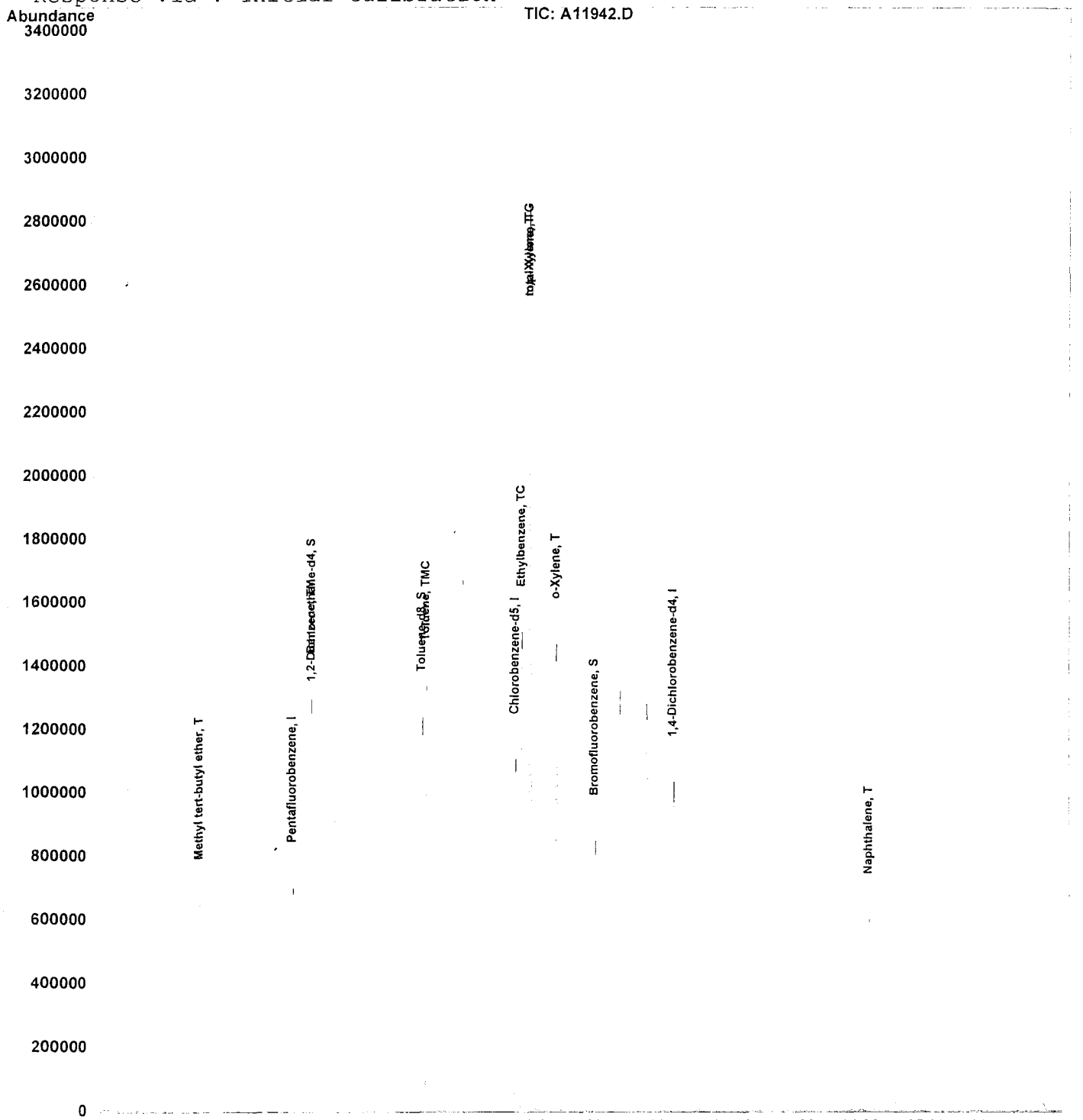
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	469954	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.62	117	629358	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	299187	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	339200	50.00	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.00%			
6) Toluene-d8	7.15	98	824548	50.00	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.00%			
13) Bromofluorobenzene	9.86	95	299573	50.00	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.00%			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	673941	50.00	ug\L	100
4) Benzene	5.40	78	892063	50.00	ug\L	100
7) Toluene	7.22	91	972334	50.00	ug\L	100
8) Ethylbenzene	8.72	91	1132346	50.00	ug\L	100
9) m,p-Xylene	8.85	106	800679	100.00	ug\L	100
10) o-Xylene	9.27	106	392126	50.00	ug\L	100
11) total-Xylene	8.85	106	1191531m	150.00	ug\L	
14) Naphthalene	14.16	128	767119	50.00	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11942.D Vial: 5
Acq On : 4 Jan 2005 12:52 Operator: RPS
Sample : VSTD050A01 Inst : HP-MSA
Misc : ICAL 50ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:11 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11943.D Vial: 6
Acq On : 4 Jan 2005 13:19 Operator: RPS
Sample : VSTD100A01 Inst : HP-MSA
Misc : ICAL 100ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:37 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	471931	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	638042	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.10	152	300021	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	639888	90.27	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 180.54%#			
6) Toluene-d8	7.15	98	1594895	95.88	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 191.76%#			
13) Bromofluorobenzene	9.86	95	680218	104.26	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 208.52%#			

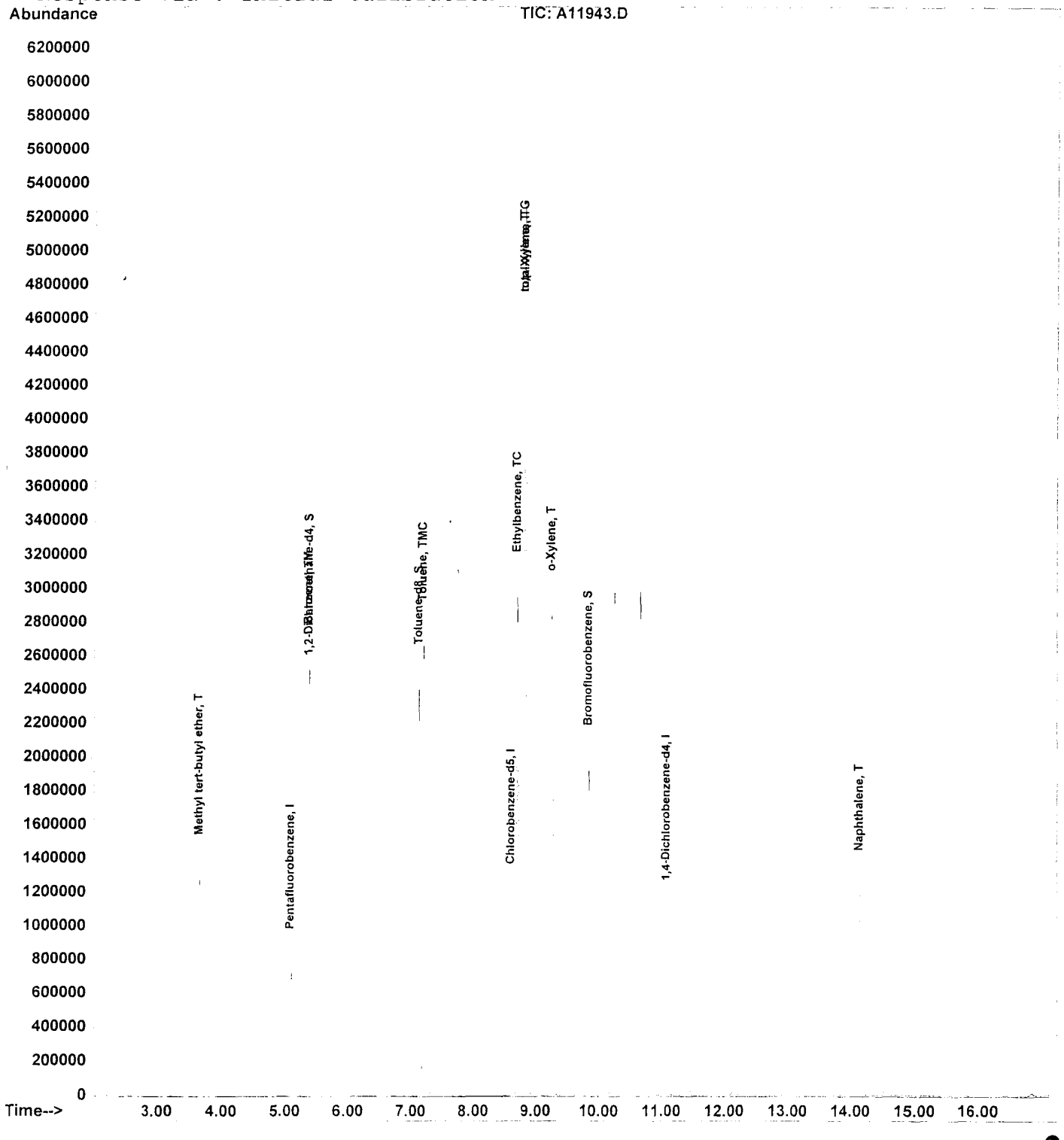
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	1328037	100.24	ug\L	98
4) Benzene	5.41	78	1746109	97.47	ug\L	100
7) Toluene	7.22	91	1909435	97.12	ug\L	100
8) Ethylbenzene	8.73	91	2202772	95.39	ug\L	98
9) m,p-Xylene	8.85	106	1523427	186.21	ug\L	99
10) o-Xylene	9.27	106	778301	97.87	ug\L	99
11) total-Xylene	8.85	106	2299035m	283.88	ug\L	
14) Naphthalene	14.16	128	1537327	106.12	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11943.D Vial: 6
Acq On : 4 Jan 2005 13:19 Operator: RPS
Sample : VSTD100A01 Inst : HP-MSA
Misc : ICAL 100ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:37 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11944.D Vial: 7
Acq On : 4 Jan 2005 13:47 Operator: RPS
Sample : VSTD200A01 Inst : HP-MSA
Misc : ICAL 200ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 14:04 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

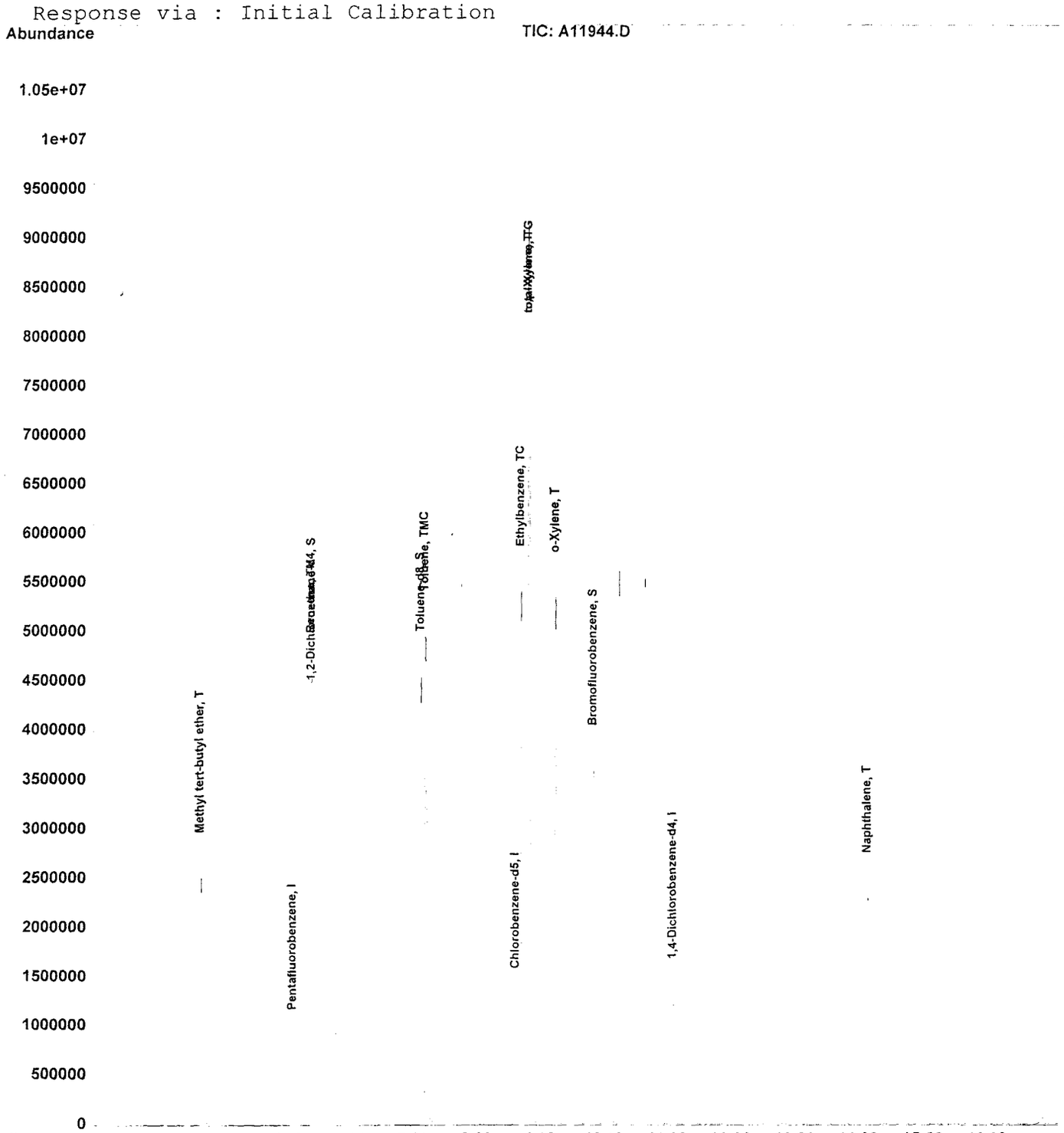
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	469129	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	643822	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	368970	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	1213085	172.16	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 344.32%#			
6) Toluene-d8	7.15	98	3022065	180.05	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 360.10%#			
13) Bromofluorobenzene	9.86	95	1331016	165.89	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 331.78%#			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	2571872	195.28	ug\L	98
4) Benzene	5.40	78	3267340	183.47	ug\L	100
7) Toluene	7.22	91	3547960	178.84	ug\L	98
8) Ethylbenzene	8.73	91	4098008	175.88	ug\L	97
9) m,p-Xylene	8.85	106	2778380	336.55	ug\L	94
10) o-Xylene	9.27	106	1511481	188.37	ug\L	95
11) total-Xylene	8.85	106	4284884m	524.34	ug\L	
14) Naphthalene	14.17	128	2999057	168.33	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11944.D Vial: 7
Acq On : 4 Jan 2005 13:47 Operator: RPS
Sample : VSTD200A01 Inst : HP-MSA
Misc : ICAL 200ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 14:04 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11947.D Vial: 1
Acq On : 4 Jan 2005 15:50 Operator: RPS
Sample : VSTD050A01 Inst : HP-MSA
Misc : ICV 50ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 17:39 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

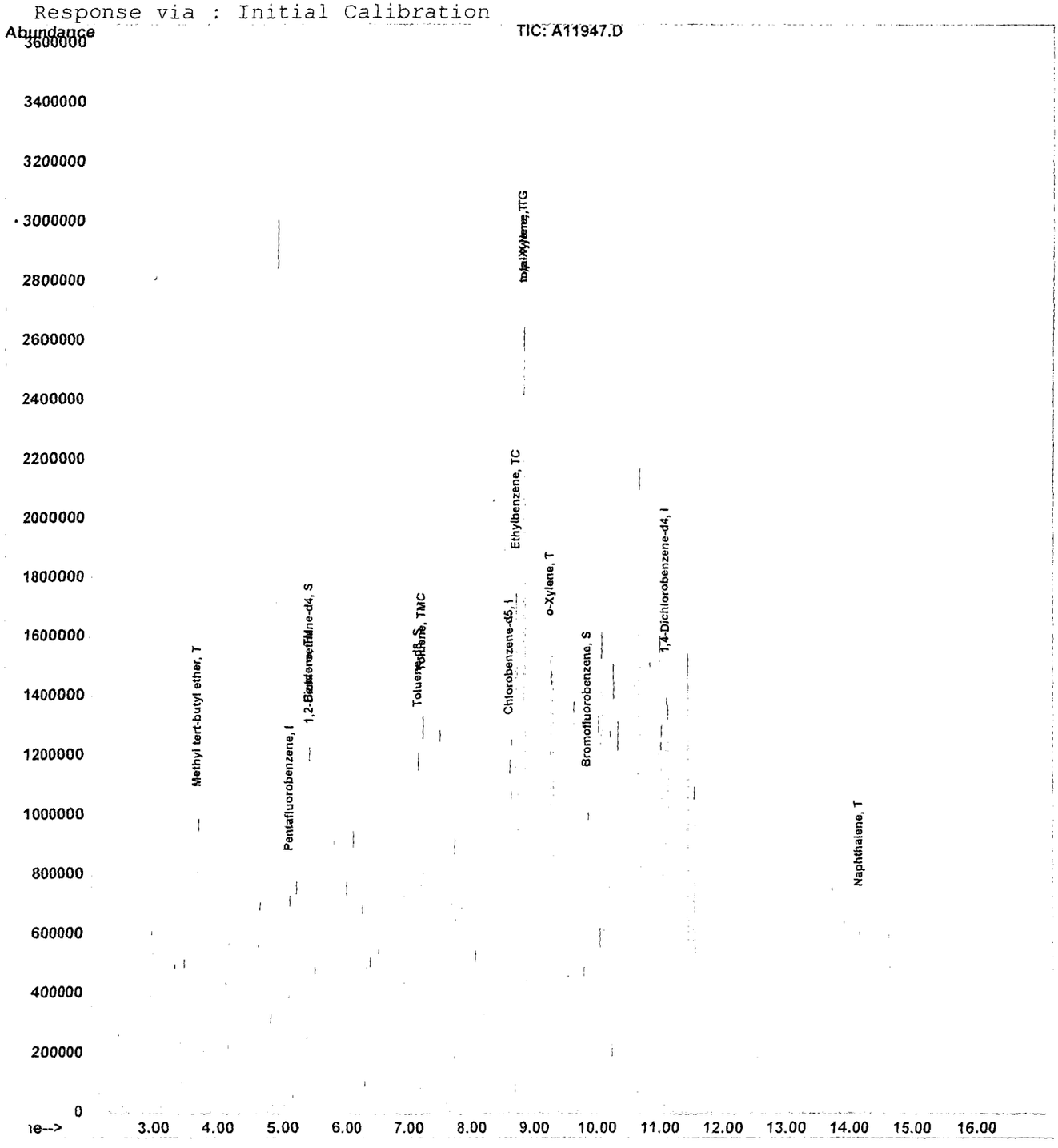
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.12	168	458268	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	639944	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	375559	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	318484	47.37	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.74%			
6) Toluene-d8	7.15	98	812000	49.49	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.98%			
13) Bromofluorobenzene	9.86	95	358292	45.16	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 90.32%			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	623109	46.73	ug\L	100
4) Benzene	5.41	78	816543	45.21	ug\L	100
7) Toluene	7.22	91	922849	45.23	ug\L	100
8) Ethylbenzene	8.73	91	1085096	45.35	ug\L	99
9) m,p-Xylene	8.86	106	756984	88.21	ug\L	99
10) o-Xylene	9.28	106	386582	46.96	ug\L	99
11) total-Xylene	8.86	106	1142298m	137.09	ug\L	
14) Naphthalene	14.17	128	771638	43.70	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11947.D Vial: 1
Acq On : 4 Jan 2005 15:50 Operator: RPS
Sample : VSTD050A01 Inst : HP-MSA
Misc : ICV 50ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 17:39 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



1947.D 0104BTEX.M Tue Jan 04 17:39:16 2005 HP-MSA

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\A010405\A11947.D Vial: 1
Acq On : 4 Jan 2005 15:50 Operator: RPS
Sample : VSTD050A01 Inst : HP-MSA
Misc : ICV 50ppb Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 250%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	98	0.00
2	T	Methyl tert-butyl ether	1.455	1.360	6.5	92	0.00
3	S	1,2-Dichloroethane-d4	0.734	0.695	5.3	94	0.00
4	TM	Benzene	1.971	1.782	9.6	92	0.00
5	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
6	S	Toluene-d8	1.282	1.269	1.0	98	0.00
7	TMC	Toluene	1.594	1.442	9.5	95	0.00
8	TC	Ethylbenzene	1.870	1.696	9.3	96	0.00
9	T	m,p-Xylene	0.671	0.591	11.9	95	0.00
10	T	o-Xylene	0.643	0.604	6.1	99	0.00
11	TG	total-Xylene	0.651	0.595	8.6	96	0.00
2	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	126	0.00
3	S	Bromofluorobenzene	1.056	0.954	9.7	120	0.00
4	T	Naphthalene	2.351	2.055	12.6	101	0.00

Out of Range SPCC's out = 0 CCC's out = 0
7.D 0104BTEX.M Tue Jan 04 17:39:19 2005

SVO GC DATA CHECKLIST
FL-PRO

PROJECT #: 7738	METHOD: FL-PRO
MATRIX: water	

INITIAL ANALYST ASSESSMENT

Are all standards within expiration dates for both stock and serial standards?	~~Y~~	N	NA
Are continuing calibrations compliant with method requirements?	~~Y~~	N	NA
Is blank result less than 1/2 RDL for analytes of interest?	~~Y~~	N	NA
Are all spike recoveries acceptable for the LCS (/LCSD)?	Y	~~N~~	NA
Are all surrogate standard recoveries acceptable (blank, LCS, samples)?	~~Y~~	N	NA
If blank, LCS or surrogate results are unacceptable, was re-extraction performed to confirm?	Y	N	~~NA~~
Are all requested analytes below the upper calibration limit?	~~Y~~	N	NA
Were sample analyses performed within holding times?	~~Y~~	N	NA
Were analyses performed such that carryover was not a problem?	~~Y~~	N	NA
Are multicomponent patterns resolvable?	~~Y~~	N	NA
Are quantitations based on the latest acceptable initial calibration?	~~Y~~	N	NA
Are all mistakes single lined, initialled, and dated?	~~Y~~	N	NA
Are all applicable runlog and extraction sheets signed, dated, and included?	~~Y~~	N	NA
Are all analytes to be reported indicated as such on the raw data?	~~Y~~	N	NA
Was analysis completed as instructed on the Log-in Record?	~~Y~~	N	NA
Has all data been entered into LIMS?	~~Y~~	N	NA

Analyst: MC	
Date: 3/14/05	Time: 16:20

PEER REVIEW

Are continuing calibrations compliant with method requirements?	~~Y~~	N	NA
Are all blank and QC results acceptable?	Y	~~N~~	NA
Are all surrogate standard recoveries acceptable (blank, LCS, samples)?	~~Y~~	N	NA
Are all analyte calculations correct and reported in the proper units?	~~Y~~	N	NA
Were sample analyses performed within holding times?	~~Y~~	N	NA
Are quantitations based on the latest acceptable initial calibration?	~~Y~~	N	NA
Is the runlog completely filled out (including review signature/date)?	~~Y~~	N	NA
Was analysis completed as instructed on the Log-in Record?	~~Y~~	N	NA
Have all LIMS entries been checked for accuracy?	~~Y~~	N	NA

Reviewer: CTP	
Date: 3/14/05	Time: 16:35

	Accura Analytical Laboratory, Inc. *Environmental Analytical Services* 6017 Financial Drive Norcross, GA 30071	Laboratory Quality Communication Form Document No.: 14-QS-005.F Revision/Date : No. 00/Effective: 02/01/01 Page No.: 1 of 1

[ ] Departmental Corrective Action [X] Quality Notice [ ] Temporary Method Deviation Notice

Tracking Number: SVO0503025

Reported By. Mei Liang Date Reported: 03.14.05

Department: SVOC WO #(s): 7733,7738,7751,7759 Analysis: FLA-PRO

Discrepancy:

The blank spike (25330BKS) recovery was outside the method-required limit (high).

MS/MSD GOOD

Resolution Assigned to (circle one): Larry Gwinn John Amirtham David Fuller Brian Burns Shaker Reddy

Resolution:

Note on Case Narrative.

Resolution recorded by: [signature] Date: 3/14/05

Copied to (circle one): David Fuller Anthony Gatch Michael Trinidad Shaker Reddy

QA Comments:

QA Review by: _____ Date: _____

Original to QA, copy in the QCF Book, copy in the project folder, copy to PM, QA will forward completed copy back to department to be inserted into book.

ACCURA ANALYTICAL LABORATORIES

EXTRACTION LOG

ANALYSIS: DRO / PAH / FL-PRO

DATE/TIME: 3/7/05 1340

MATRIX: WATER

BATCH I.D. # 25330

ANALYST: ENP

EXT. METHOD: 3510 / 3520

INSTRUMENT: GC/MS/FID

AAL I.D.	Vi (ml)	pH	SURR (ml)	SPIKE (ml)	Vf (ml)	COMMENTS
25330 BLK	1000	<2	1.0	ENP 3/7/05	2.0	
" BKS	"		"	0.5	"	
7733-002 MS	500		0.5	0.25	1.0	
" MSD	"		"	"	"	
7733-001	1000		1.0		2.0	
-002						
-003						
-004						
7738-001						
-002						
-003						
-004						
-005						
-006						
7751-001						
-002						
-003						
-004						
-005						
-006						
7759-001						
-002						
-003						
-004						

START TIME: 1545 **STOP TIME:** 810 **SOLVENT ID #:** EX05023

SURROGATE I.D. : FL05E032 **CONC. :** 300 ppm **INITAL :** ENP

SURROGATE I.D. : DO5E024 **CONC. :** 50 ppm **INITAL :** ENP

SPIKE I.D. : EX05024 **CONC. :** 500 ppm **INITIAL :** ENP

SPIKE I.D. : — **CONC. :** — **INITIAL :** —

SPIKE WITNESS: [illegible] **RapidVap TEMP.:** 35°C

EXTRACT STORAGE: REFRIG.# 5, BOX # : D 342, 343 **REVIEWED BY:** [illegible]

RECEIVED FOR ANALYSIS BY (DATE/TIME): [illegible] 3/8/05

6017 Financial Drive, Norcross, GA, 30071

SEMI-VOLATILE GC RUNLOG FOR INSTRUMENT HP-GCO

Sequence Start Date: 3/8/05
Analyst Initials: ML
ICAL Date/Method: 3/8/05 2/28/05
ACQ Method: FLPRO , DRO
Method Reference: (FL-PRO) MA-EPH TN_EPH (DRO)

Column A: RTX-5MS
Column B: NA

	File Name	Lab Sample ID#	Client Sample ID#	ALS#	Matrix	DF	Inj. Time	Comments
O	10432	1BLK		1	—	—	9:20	
O	33	1BLK		1			9:40	
O	34	DRO 300 ppm	055V019	2			10:00	
O	35	DRO 500 ppm	020	3			10:20	
O	36	DRO 1000 ppm	021	4			10:40	
O	37	DRO 2500 ppm	022	5			11:01	
O	38	DRO 5000 ppm	023	6			11:21	
O	39	DRO 10000 ppm	005	7			11:41	
O	40	DRO 1000 ppm	019	8			12:01	
O	41	FLPRO 4250	055V014	9			13:38	
O	42	25330 BKS		10	W	1	14:16	
O	43	7759-001	MW-24B-46	11			14:55	
O	44	25330 BLK		10			15:34	
O	45	7759-002	MW-31-46	12			16:13	
O	46	7759-003	MW-25B-46	13			16:51	
O	47	7759-004	MW-38-46	14			17:30	
O	48	7733-001	influent -46	15			18:09	
O	49	-002	Effluent -46	16			18:47	
O	50	-002 MS	"	17			19:26	
O	51	-002 MSD	"	18			20:05	
O	52	Mech	—	19	—	—	20:43	
O	53	FLPRO 4250	055V014	20	—	—	21:22	
O	54	7733-003	CBANK-46	21	W	1	22:00	
O	55	-004	SYS Dup -46	22			22:39	
O	56	7738-001	BRN-1120-MW4R-06	23			23:18	
O	57	-002	MW35-06	24			23:56	
O	58	-003	MW2-06	25			00:35	
O	59	-004	MW4-06	26			1:13	
O	60	-005	MW5R-06	27			1:52	

Analyst/Date: ML 3/10/05

Reviewer/Date: AP 4/4/05

Analytical Sequence No: 25792

6017 Financial Drive, Norcross, GA, 30071

SEMI-VOLATILE GC RUNLOG FOR INSTRUMENT HP-GCO

Sequence Start Date: 3/8/05
Analyst Initials: ML
ICAL Date/Method: 2/28/05
ACQ Method: FLPRO

Column A: RTX-5MS
Column B: NA

Method Reference: FL-PRO MA-EPH TN_EPH DRO

	File Name	Lab Sample ID#	Client Sample ID#	ALS#	Matrix	DF	Inj. Time	Comments
O	10461	7738-006	BRN-1120-MW01-06	28	W	1	2:30	
O	62	7751-001	MW-29-46	29			3:08	
O	63	7751-002	MW-21-46	30			3:47	
O	64	FLPRO-0250	05SV014	30			4:25	
O	65	FLPRO 0250	05SV0	31			5:04	do not use
O	66	7751-003	MW-15-46	32			5:42	
O	67	-004	MW-30-46	33			6:21	
O	68	-005	Dup-01-46	34			6:59	
O	69	-006	MW-22A-46	35			7:38	
O	70	MeCl2		36	–	–	8:16	
O	71	FLPRO 2150	05SV013	37	–	–	8:55	
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Analyst/Date: ML 3/10/05

Reviewer/Date: BP 4/4/05

Analytical Sequence No:

Injection Log

Directory: E:\1\DATA\030805

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	O10432.d	1.	IBLK		8 Mar 2005 09:20
2	1	O10433.d	1.	IBLK		8 Mar 2005 09:40
3	2	O10434.d	1.	DRO 300 PPM ICAL	05SV019	8 Mar 2005 10:00
4	3	O10435.d	1.	DRO 500 PPM ICAL	05SV020	8 Mar 2005 10:20
5	4	O10436.d	1.	DRO 1000 PPM ICAL	05SV021	8 Mar 2005 10:40
6	5	O10437.d	1.	DRO 2500 PPM ICAL	05SV022	8 Mar 2005 11:01
7	6	O10438.d	1.	DRO 5000 PPM ICAL	05SV023	8 Mar 2005 11:21
8	7	O10439.d	1.	DRO 10000 PPM ICAL	05SV005	8 Mar 2005 11:41
9	8	O10440.d	1.	DRO 1000 PPM ICV	05SV010	8 Mar 2005 12:01
10	9	O10441.d	1.	FLPRO4250	05SV014	8 Mar 2005 13:38
11	10	O10442.d	1.	25330BLK		8 Mar 2005 14:16
12	11	O10443.d	1.	7759-001 MW-24B-46		8 Mar 2005 14:55
13	10	O10444.d	1.	25330BLK		8 Mar 2005 15:34
14	12	O10445.d	1.	7759-002 MW-31-46		8 Mar 2005 16:13
15	13	O10446.d	1.	7759-003 MW-25B-46		8 Mar 2005 16:51
16	14	O10447.d	1.	7759-004 MW-38-46		8 Mar 2005 17:30
17	15	O10448.d	1.	7733-001 INFLUENT-46		8 Mar 2005 18:09
18	16	O10449.d	1.	7733-002 EFFLUENT-46		8 Mar 2005 18:47
19	17	O10450.d	1.	7733-002MS EFFLUENT-46		8 Mar 2005 19:26
20	18	O10451.d	1.	7733-002MSD EFFLUENT-46		8 Mar 2005 20:05
21	19	O10452.d	1.	MECL2		8 Mar 2005 20:43
22	20	O10453.d	1.	FLPRO4250	05SV014	8 Mar 2005 21:22
23	21	O10454.d	1.	7733-003 CBANK-46		8 Mar 2005 22:00
24	22	O10455.d	1.	7733-004 SYSDUP-46		8 Mar 2005 22:39
25	23	O10456.d	1.	7738-001 BRN-1120-MW14...		8 Mar 2005 23:18
26	24	O10457.d	1.	7738-002 BRN-1120-MW35-06		8 Mar 2005 23:56
27	25	O10458.d	1.	7738-003 BRN-1120-MW2-06		9 Mar 2005 00:35
28	26	O10459.d	1.	7738-004 BRN-1120-MW4-06		9 Mar 2005 01:13
29	27	O10460.d	1.	7738-005 BRN-1120-MW5R-06		9 Mar 2005 01:52
30	28	O10461.d	1.	7738-006 BRN-1120-MW01-06		9 Mar 2005 02:30
31	29	O10462.d	1.	7751-001 MW-29-46		9 Mar 2005 03:08
32	30	O10463.d	1.	7751-002 MW-21-46		9 Mar 2005 03:47
33	20	O10464.d	1.	FLPRO4250	05SV014	9 Mar 2005 04:25
34	31	O10465.d	1.	FLPRO4250	05SV014	9 Mar 2005 05:04
35	32	O10466.d	1.	7751-003 MW-15-46		9 Mar 2005 05:42
36	33	O10467.d	1.	7751-004 MW-20-46		9 Mar 2005 06:21
37	34	O10468.d	1.	7751-005 DUP-01-46		9 Mar 2005 06:59
38	35	O10469.d	1.	7751-006 MW-22A-46		9 Mar 2005 07:38
39	36	O10470.d	1.	MECL2		9 Mar 2005 08:16
40	37	O10471.d	1.	FLPRO2150	05SV013	9 Mar 2005 08:55

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010456.D Vial: 23
Acq On : 03/08/05 23:18 Operator: ML
Sample : 7738-001 BRN-1120-MW14R-06 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 09 09:02:38 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

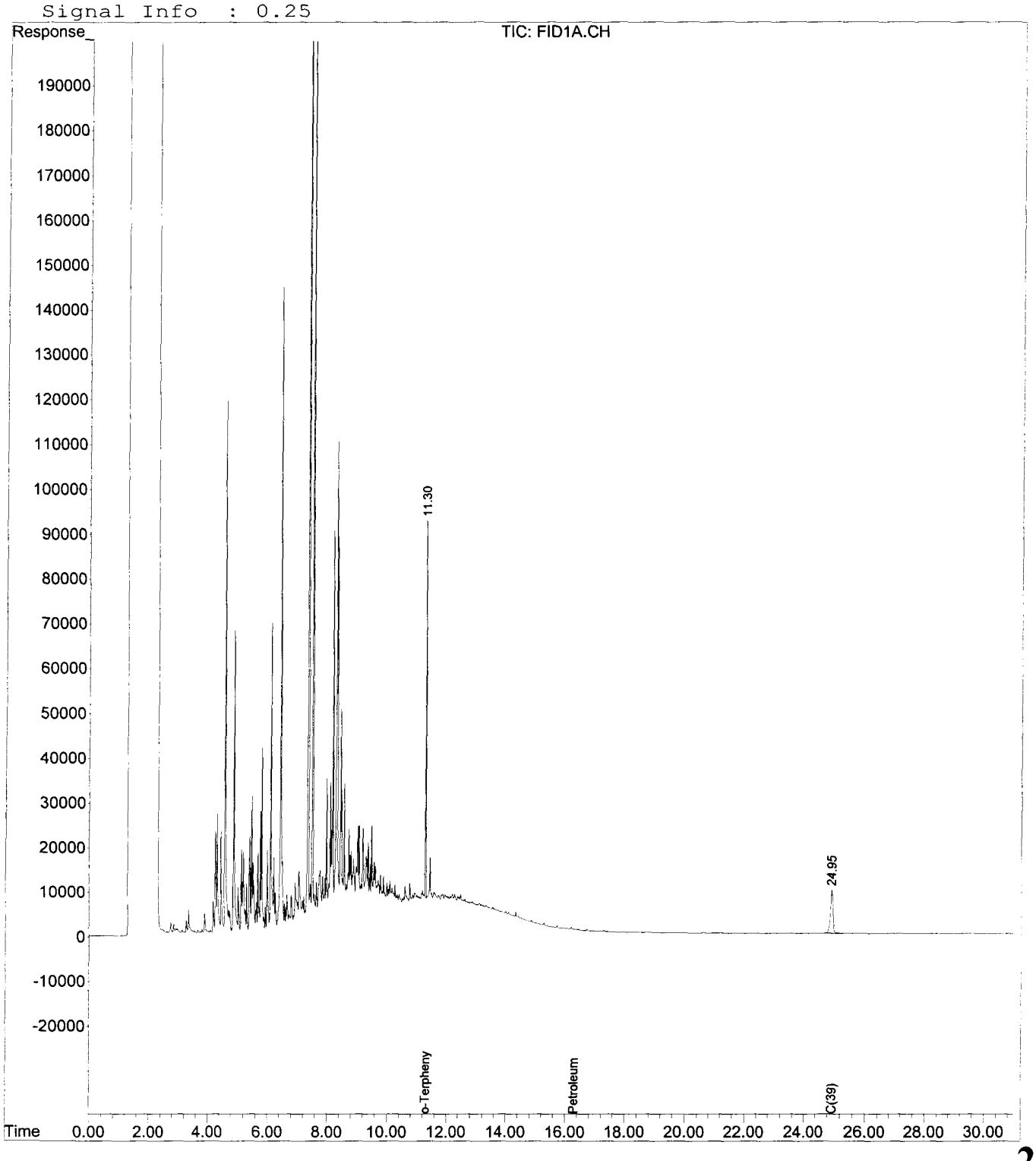
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.30	1105939	25.065 ug/mlm
Spiked Amount 25.000		Recovery =	100.26%
3) SC C(39)	24.95	572188	140.471 ug/mlm
Spiked Amount 150.000		Recovery =	93.65%
Target Compounds			
1) HM Petroleum Range Organics	16.30	74395334	2563.940 ug/ml

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010456.D Vial: 23
Acq On : 03/08/05 23:18 Operator: ML
Sample : 7738-001 BRN-1120-MW14R-06 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 9 9:22 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\O10457.D Vial: 24
Acq On : 03/08/05 23:56 Operator: ML
Sample : 7738-002 BRN-1120-MW35-06 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 09 09:03:07 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.29f	1079842	24.474 ug/mlm
Spiked Amount 25.000		Recovery =	97.90%
3) SC C(39)	25.00	1220749	299.690 ug/mlm
Spiked Amount 150.000		Recovery =	199.79%
Target Compounds			
1) HM Petroleum Range Organics	16.30	1753232	60.423 ug/ml

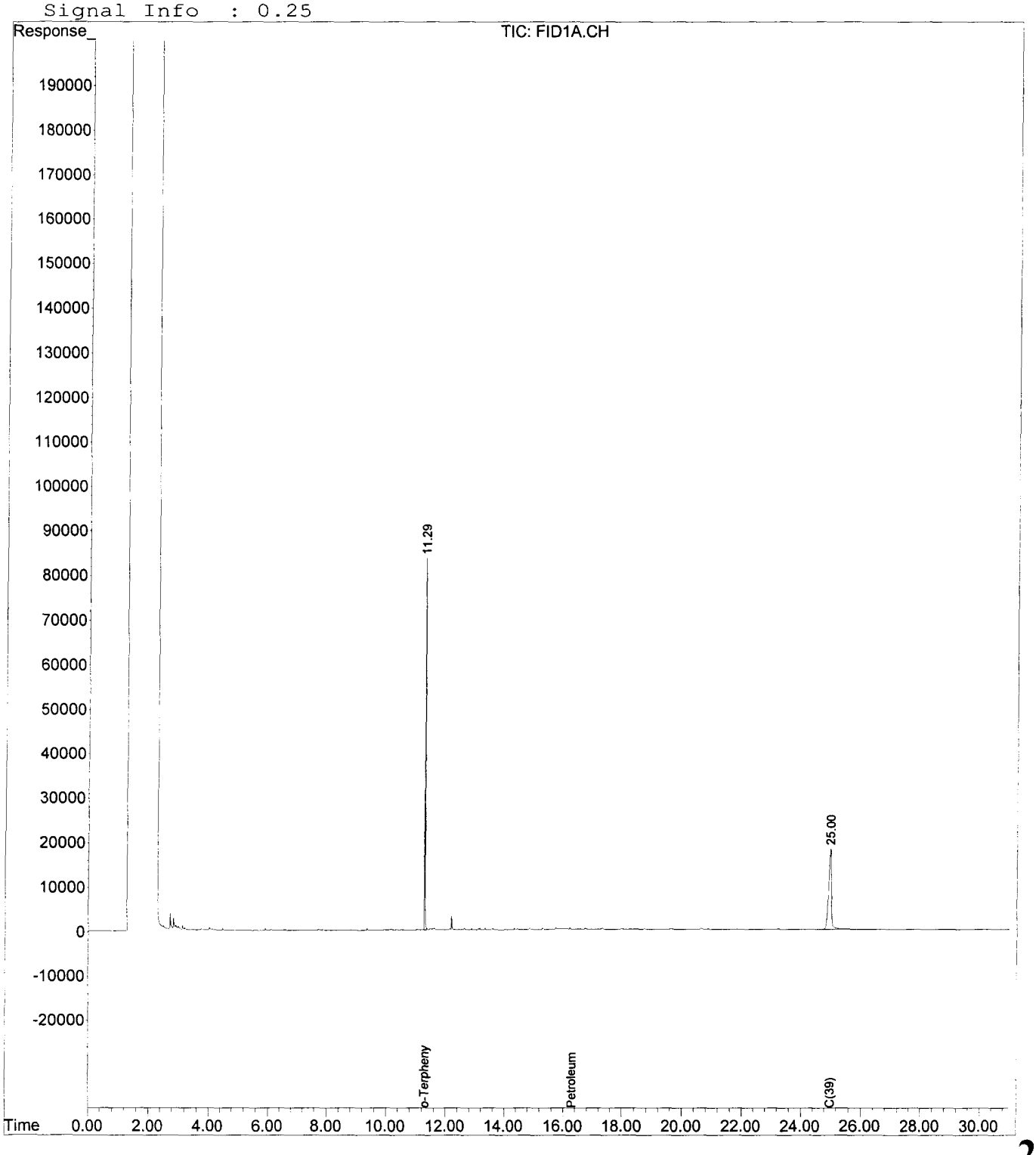
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010457.D Vial: 24
Acq On : 03/08/05 23:56 Operator: ML
Sample : 7738-002 BRN-1120-MW35-06 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 9 9:23 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\O10458.D Vial: 25
Acq On : 03/09/05 00:35 Operator: ML
Sample : 7738-003 BRN-1120-MW2-06 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 09 09:03:35 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

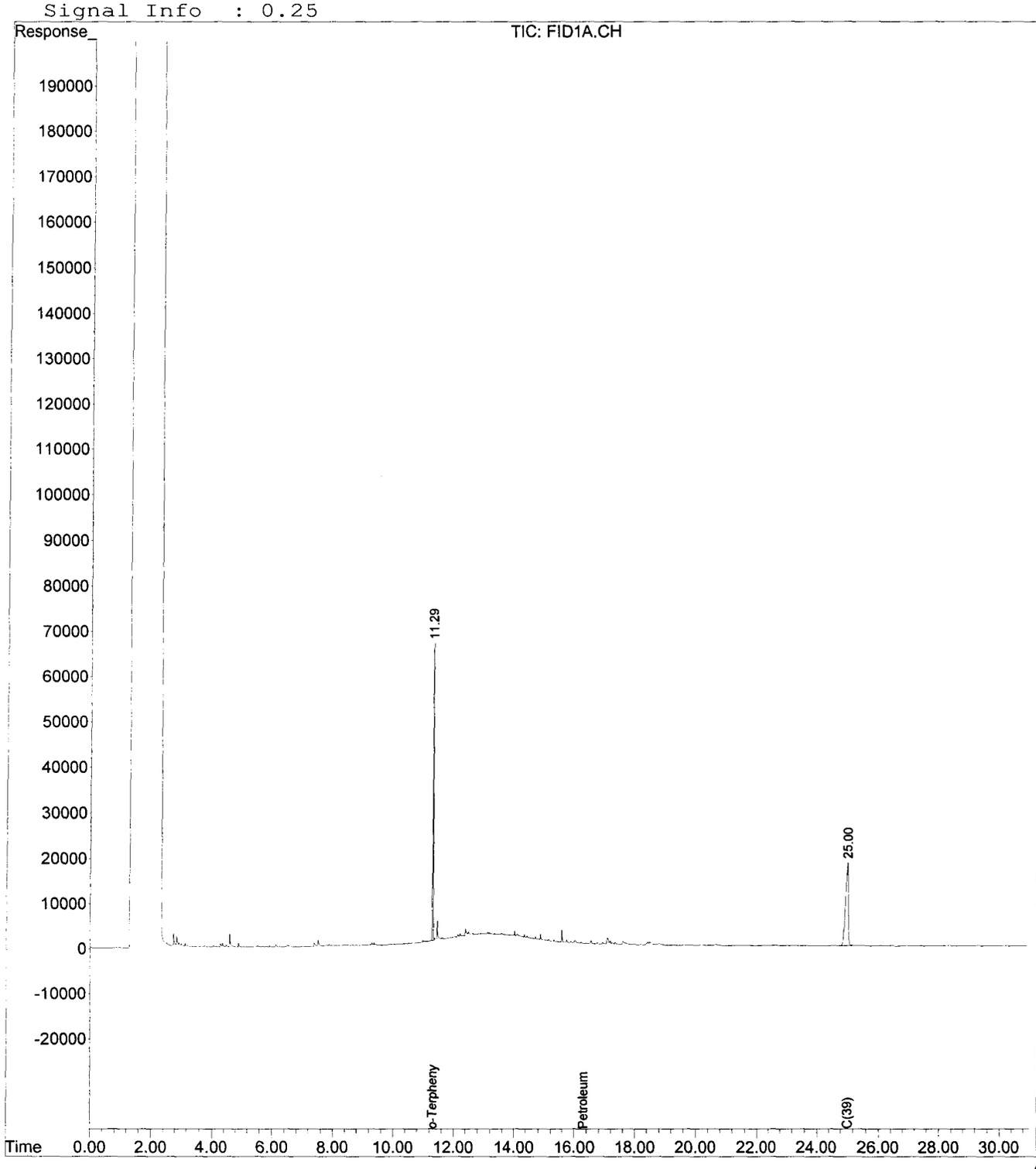
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.29f	831524	18.846 ug/mlm
Spiked Amount 25.000		Recovery =	75.38%
3) SC C(39)	25.00	1142009	280.360 ug/mlm
Spiked Amount 150.000		Recovery =	186.91%
Target Compounds			
1) HM Petroleum Range Organics	16.30	9894178	340.990 ug/ml

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010458.D Vial: 25
Acq On : 03/09/05 00:35 Operator: ML
Sample : 7738-003 BRN-1120-MW2-06 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 9 9:23 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010459.D Vial: 26
Acq On : 03/09/05 01:13 Operator: ML
Sample : 7738-004 BRN-1120-MW4-06 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 09 09:04:01 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

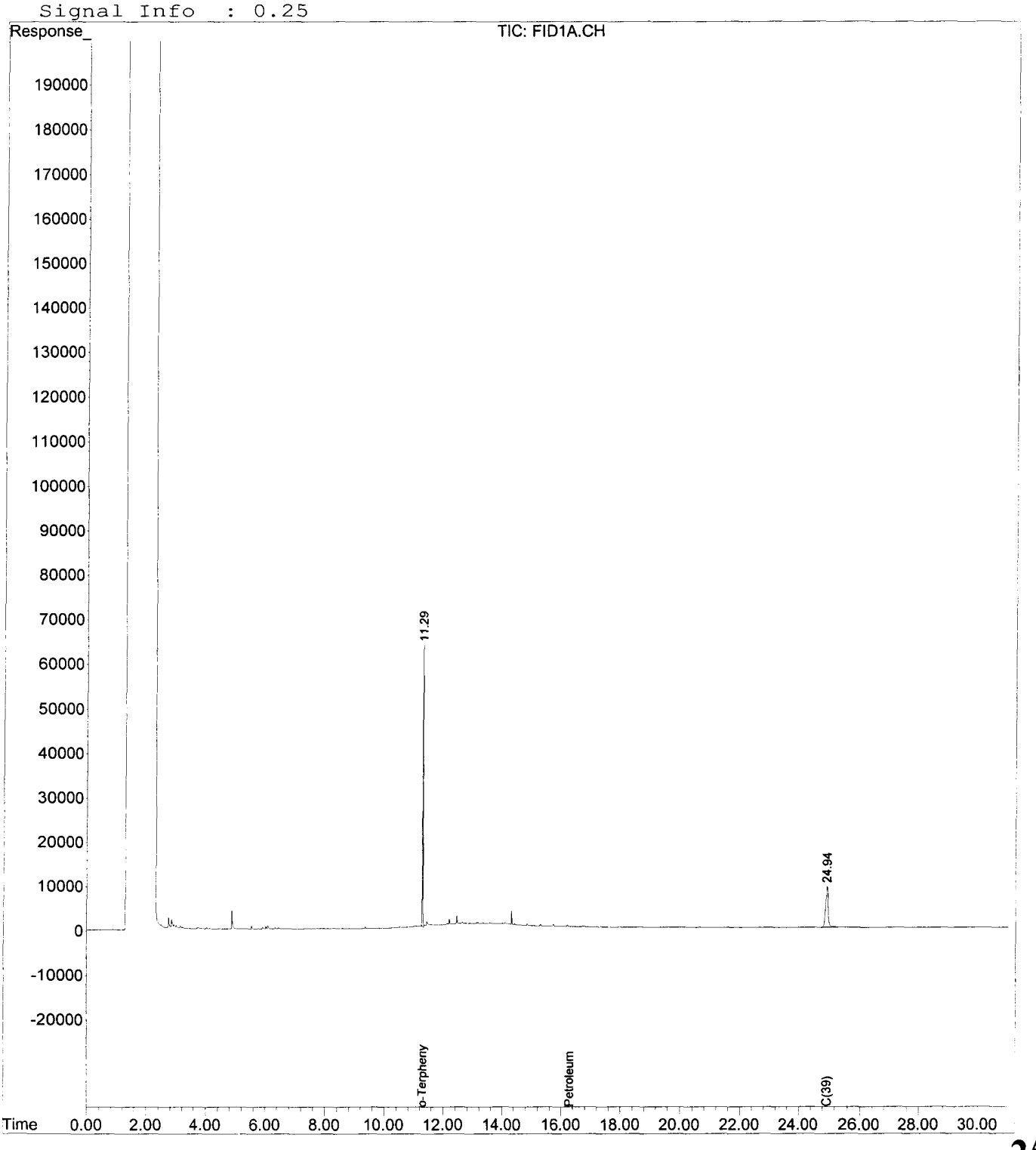
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.29f	812994	18.426 ug/mlm
Spiked Amount 25.000		Recovery =	73.70%
3) SC C(39)	24.94	537950	132.065 ug/mlm
Spiked Amount 150.000		Recovery =	88.04%
Target Compounds			
1) HM Petroleum Range Organics	16.30	4462721	153.802 ug/ml

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010459.D Vial: 26
Acq On : 03/09/05 01:13 Operator: ML
Sample : 7738-004 BRN-1120-MW4-06 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 9 9:23 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010460.D Vial: 27
Acq On : 03/09/05 01:52 Operator: ML
Sample : 7738-005 BRN-1120-MW5R-06 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 09 09:04:27 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.29f	909142	20.605 ug/mlm
Spiked Amount 25.000		Recovery =	82.42%
3) SC C(39)	24.98	927753	227.761 ug/mlm
Spiked Amount 150.000		Recovery =	151.84%
Target Compounds			
1) HM Petroleum Range Organics	16.30	15240063	525.229 ug/ml

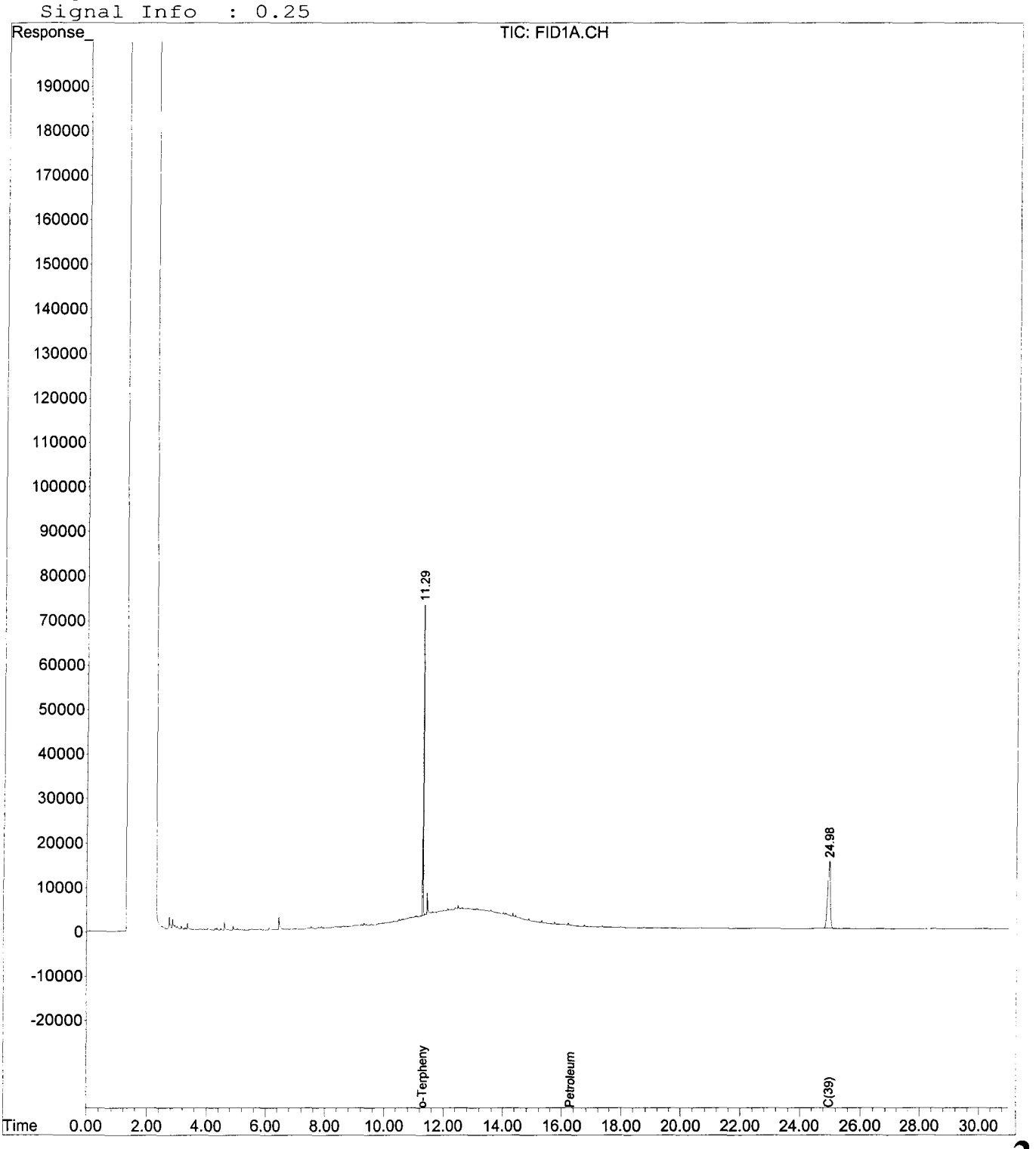
(f)=RT Delta > 1/2 Window (m)=manual int.
010460.D 0228PRO.M Sun Mar 13 11:10:01 2005 Page 1

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010460.D Vial: 27
Acq On : 03/09/05 01:52 Operator: ML
Sample : 7738-005 BRN-1120-MW5R-06 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 9 9:24 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010461.D Vial: 28
Acq On : 03/09/05 02:30 Operator: ML
Sample : 7738-006 BRN-1120-MW01-06 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 09 09:04:53 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.30	1040335	23.579 ug/mlm
Spiked Amount 25.000		Recovery =	94.32%
3) SC C(39)	24.96	603616	148.186 ug/mlm
Spiked Amount 150.000		Recovery =	98.79%
Target Compounds			
1) HM Petroleum Range Organics	16.30	4682654	161.382 ug/ml

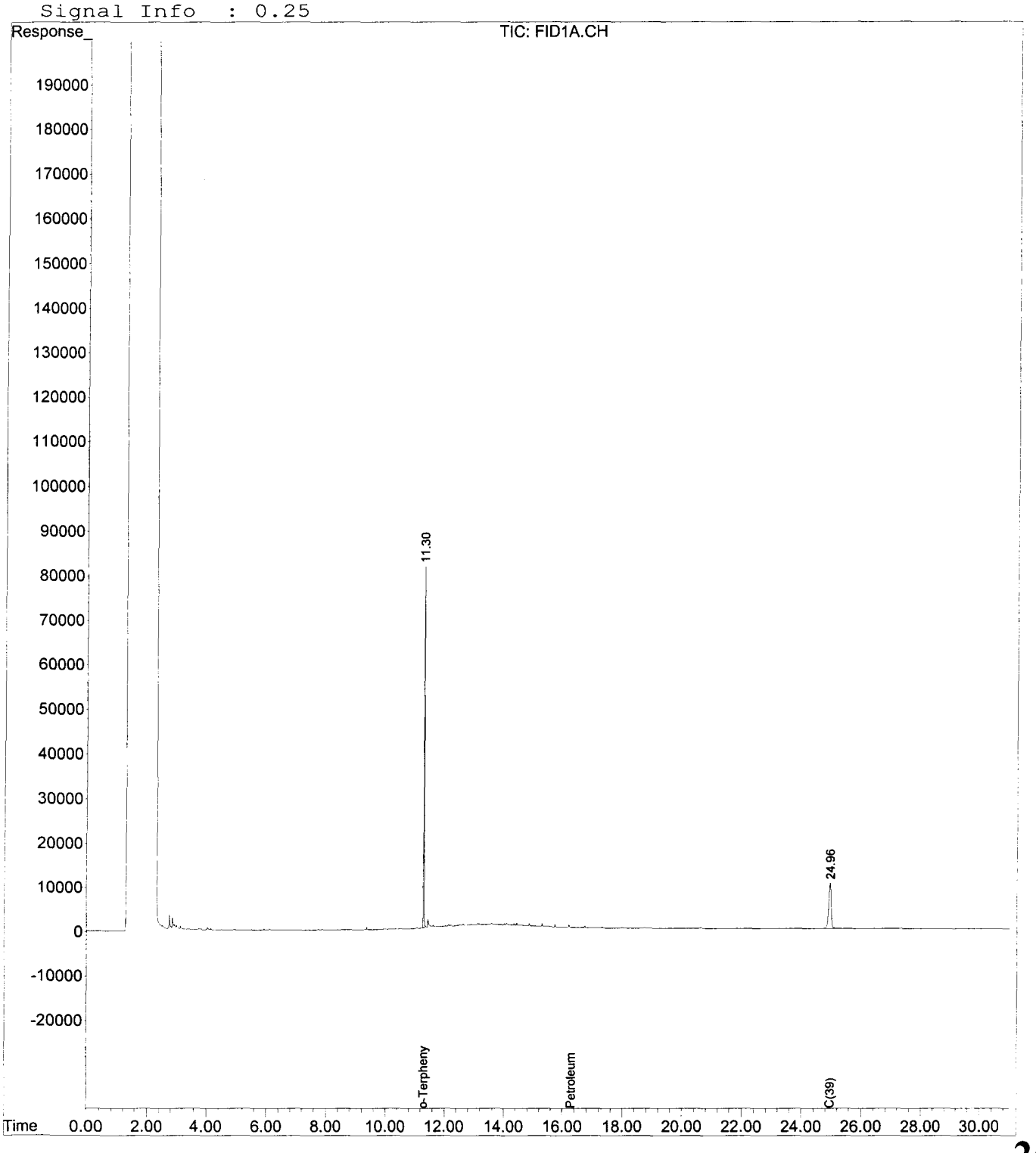
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010461.D Vial: 28
Acq On : 03/09/05 02:30 Operator: ML
Sample : 7738-006 BRN-1120-MW01-06 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 9 9:24 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010444.D
Vial: 10
Acq On : 03/08/05 15:34
Operator: ML
Sample : 25330BLK
Inst : HP-GCO
Misc :
Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 08 16:04:13 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.30	1033401	23.421 ug/mlm
Spiked Amount 25.000		Recovery =	93.68%
3) SC C(39)	24.94	340512	83.595 ug/mlm
Spiked Amount 150.000		Recovery =	55.73%
Target Compounds			
1) HM Petroleum Range Organics	16.30	1098605	37.862 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.
010444.D 0228PRO.M Sun Mar 13 11:09:28 2005 Page 1

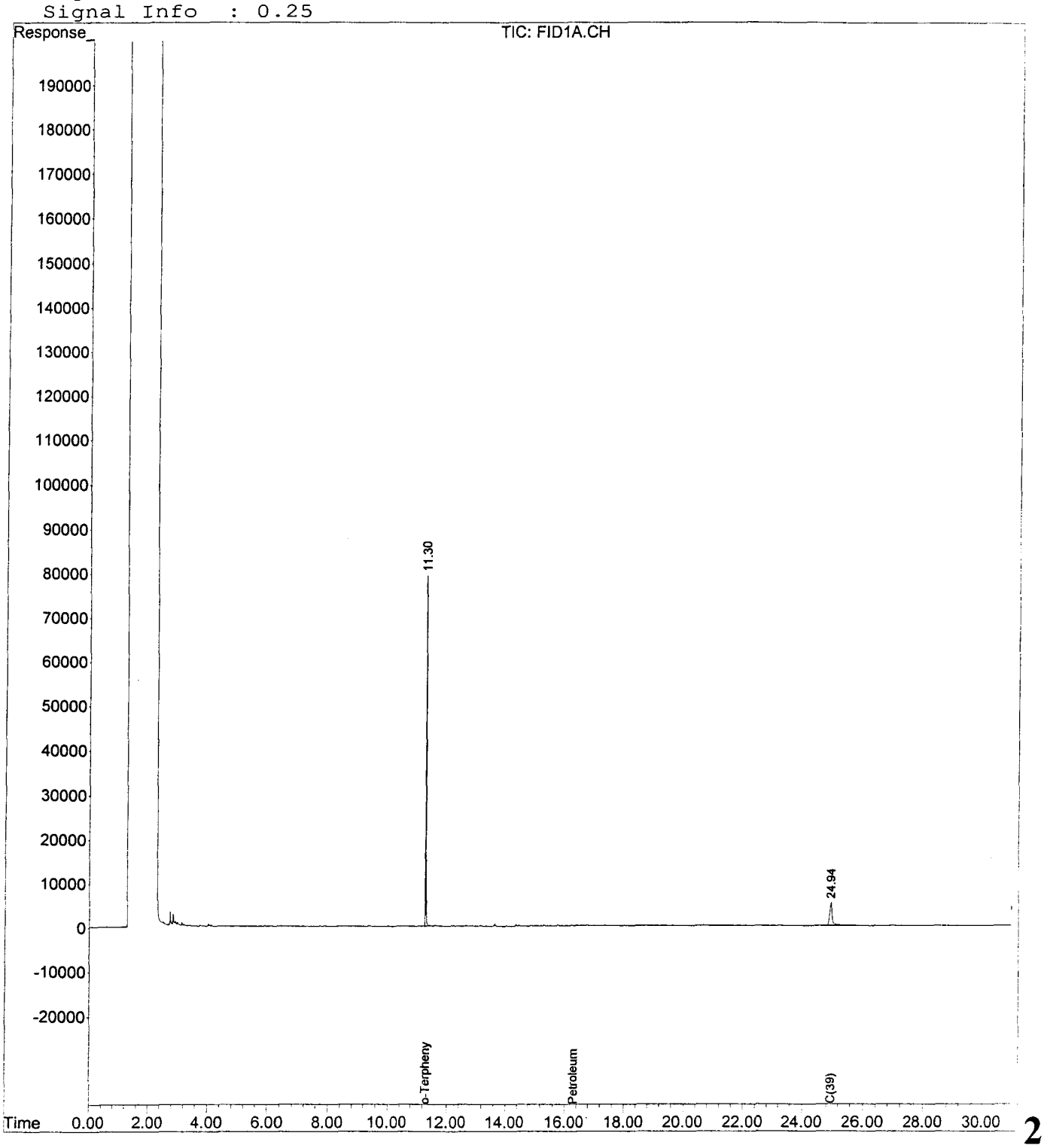
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010444.D
Acq On : 03/08/05 15:34
Sample : 25330BLK
Misc :
IntFile : PRO0722.E
Quant Time: Mar 8 16:24 2005 Quant Results File: 0228PRO.RES

Vial: 10
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010442.D Vial: 10
Acq On : 03/08/05 14:16 Operator: ML
Sample : 25330B~~LK~~ KS Inst : HP-GCO
Misc : MC 3/14/05 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 08 14:49:03 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.30	1184366	26.843 ug/mlm
Spiked Amount 25.000		Recovery =	107.37%
3) SC C(39)	24.95	441964	108.501 ug/mlm
Spiked Amount 150.000		Recovery =	72.33%
Target Compounds			
1) HM Petroleum Range Organics	16.30	71389980	2460.364 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.
010442.D 0228PRO.M Sun Mar 13 11:09:23 2005 Page 1

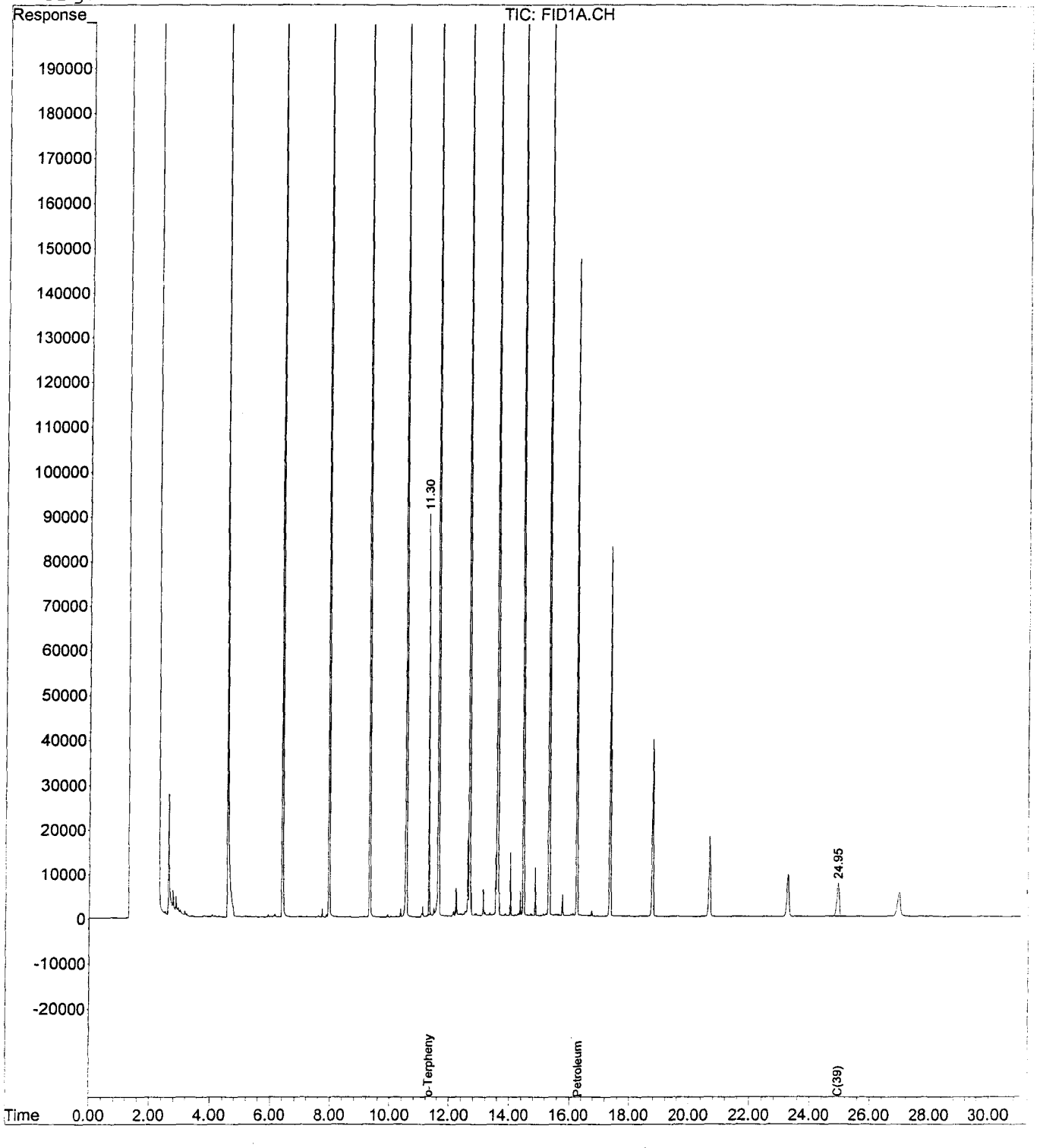
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010442.D
Acq On : 03/08/05 14:16
Sample : 25330BLK
Misc :
IntFile : PRO0722.E
Quant Time: Mar 8 15:09 2005 Quant Results File: 0228PRO.RES

Vial: 10
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Injection Log

Directory: E:\1\DATA\022805

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	O10295.d	1.	IBLK		28 Feb 2005 09:02
2	2	O10296.d	1.	FLOR 4125 PPM	04SV163	28 Feb 2005 09:53
3	3	O10297.d	1.	FLO SURROGATE	50/300	28 Feb 2005 10:59
4	4	O10298.d	1.	FLO 850 PPM	05SV011	28 Feb 2005 11:50
5	5	O10299.d	1.	FLO 1700 PPM	ICAL 05SV012	28 Feb 2005 12:43
6	6	O10300.d	1.	FLO 2125 PPM	ICAL 05SV013	28 Feb 2005 13:21
7	7	O10301.d	1.	FLO 4250 PPM	ICAL 05SV014	28 Feb 2005 14:00
8	8	O10302.d	1.	FLO 5950 PPM	ICAL 05SV015	28 Feb 2005 14:39
9	9	O10303.d	1.	FLO 4250 PPM	ICV 05SV016	28 Feb 2005 15:18
10	10	O10304.d	1.	25206BLK	FLPRO_W	28 Feb 2005 15:59
11	11	O10305.d	1.	25206BKS	FLPRO_W	28 Feb 2005 16:38
12	12	O10306.d	1.	7673-001 Influent-46	FLPRO_W	28 Feb 2005 17:16
13	13	O10307.d	1.	7673-002 CBank-46	FLPRO_W	28 Feb 2005 17:55
14	14	O10308.d	1.	7673-003 Effuent-46	FLPRO_W	28 Feb 2005 18:34
15	15	O10309.d	1.	7673-003MS Effuent-46	FLPRO_W	28 Feb 2005 19:12
16	16	O10310.d	1.	7673-003MSD Effuent-46	FLPRO_W	28 Feb 2005 19:51
17	17	O10311.d	1.	7673-004 SYSDUP-46	FLPRO_W	28 Feb 2005 20:30
18	18	O10312.d	1.	7678-035 TRIP BLANK	FLPRO_W	28 Feb 2005 21:08
19	19	O10313.d	1.	7678-036 EQ BLANK	FLPRO_W	28 Feb 2005 21:47
20	20	O10314.d	1.	25206BLK2	FLPRO_W	28 Feb 2005 22:26
21	21	O10315.d	1.	FLO 4250 PPM	05SV014	28 Feb 2005 23:04

Response Factor Report HP-GCO

Method : E:\1\METHODS\OLD METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005

Calibration Files
1 =O10298.D 2 =O10299.D 3 =O10300.D
4 =O10301.D 5 =O10302.D 6 =O009890.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	HM	Petroleum Range	2.925	2.799	2.872	2.913	2.998		2.902 E4	2.52
2)	SC	o-Terphenyl	4.087	4.302	4.497	4.420	4.755		4.412 E4	5.58
3)	SC	C(39)	3.419		4.872	3.877	4.126		4.073 E3	14.92

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010298.D
Acq On : 02/28/05 11:50
Sample : FLO 850 PPM
Misc : 05SV011
IntFile : PRO0722.E
Quant Time: Feb 28 15:21:56 2005 Quant Results File: 0228PRO.RES

Vial: 4
Operator: BP
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:20:41 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.34	2043408	46.432 ug/mlm
Spiked Amount 25.000		Recovery =	185.73%
3) SC C(39)	25.08f	1025573	251.481 ug/mlm
Spiked Amount 300.000		Recovery =	83.83%
Target Compounds			
1) HM Petroleum Range Organics	16.30	24865567	856.814 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

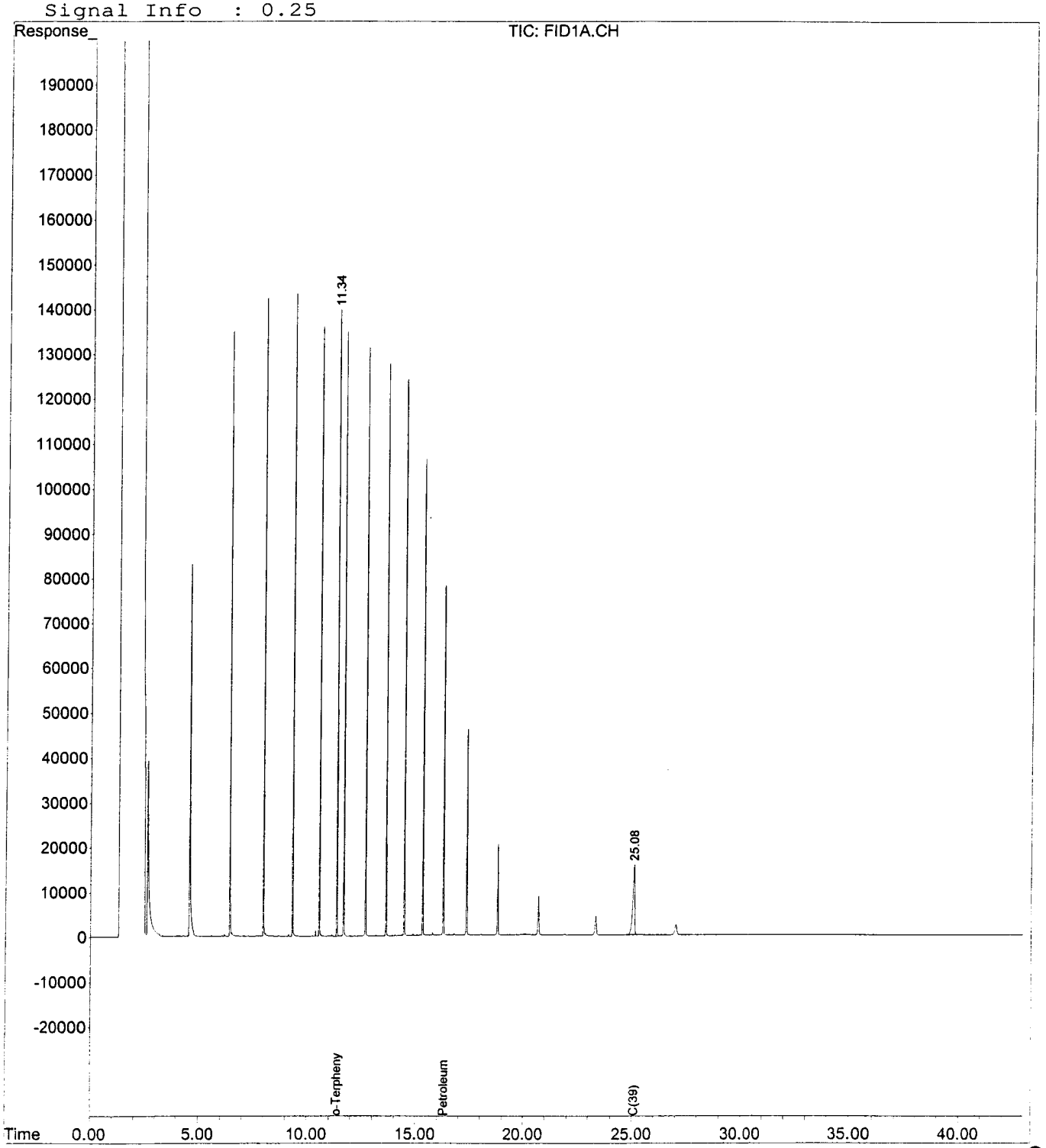
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010298.D
Acq On : 02/28/05 11:50
Sample : FLO 850 PPM
Misc : 05SV011
IntFile : PRO0722.E
Quant Time: Feb 28 15:42 2005 Quant Results File: 0228PRO.RES

Vial: 4
Operator: BP
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:20:41 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010299.D
Acq On : 02/28/05 12:43
Sample : FLO 1700 PPM
Misc : ICAL 05SV012
IntFile : PRO0722.E
Quant Time: Feb 28 15:22:39 2005 Quant Results File: 0228PRO.RES

Vial: 5
Operator: BP
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:22:30 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.34	2151002	48.865 ug/mlm
Spiked Amount 25.000		Recovery =	195.46%
3) SC C(39)	25.04	705176	172.714 ug/mlm
Spiked Amount 300.000		Recovery =	57.57%
Target Compounds			
1) HM Petroleum Range Organics	16.30	47586046	1639.825 ug/ml

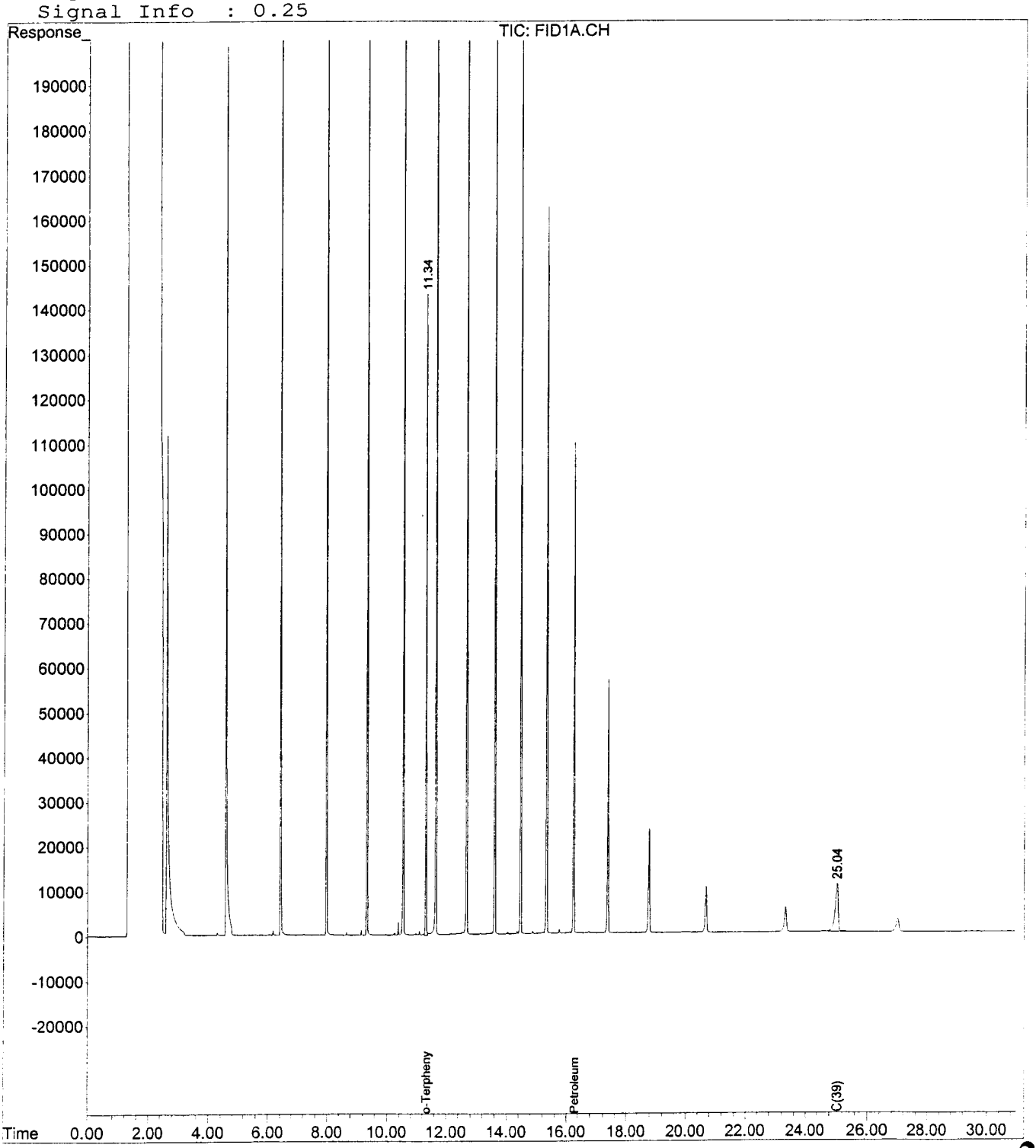
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010299.D
Acq On : 02/28/05 12:43
Sample : FLO 1700 PPM
Misc : ICAL 05SV012
IntFile : PRO0722.E
Quant Time: Feb 28 15:43 2005 Quant Results File: 0228PRO.RES

Vial: 5
Operator: BP
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:22:30 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010300.D Vial: 6
Acq On : 02/28/05 13:21 Operator: BP
Sample : FLO 2125 PPM Inst : HP-GCO
Misc : ICAL 05SV013 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Feb 28 15:23:34 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:23:26 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.34	2158337	48.964 ug/mlm
Spiked Amount 25.000		Recovery =	195.86%
3) SC C(39)	25.10f	1461545	357.966 ug/mlm
Spiked Amount 300.000		Recovery =	119.32%
Target Compounds			
1) HM Petroleum Range Organics	16.30	61039568	2103.625 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

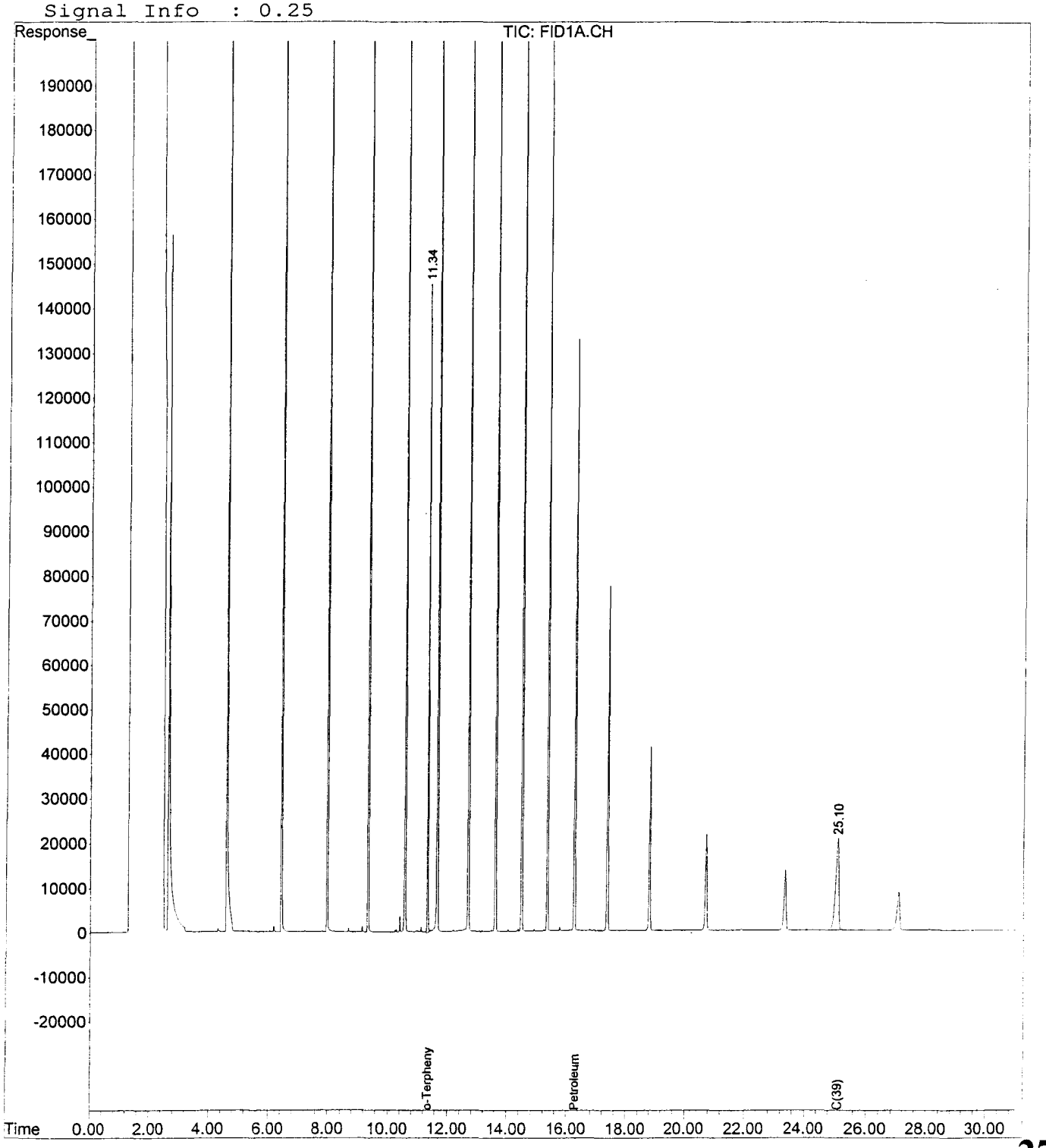
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010300.D
Acq On : 02/28/05 13:21
Sample : FLO 2125 PPM
Misc : ICAL 05SV013
IntFile : PRO0722.E
Quant Time: Feb 28 15:43 2005 Quant Results File: 0228PRO.RES

Vial: 6
Operator: BP
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:23:26 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010301.D Vial: 7
Acq On : 02/28/05 14:00 Operator: BP
Sample : FLO 4250 PPM Inst : HP-GCO
Misc : ICAL 05SV014 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Feb 28 15:24:10 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:24:02 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.34	2210244	50.042 ug/mlm
Spiked Amount 25.000		Recovery =	200.17%
3) SC C(39)	25.08	1163161	285.327 ug/mlm
Spiked Amount 300.000		Recovery =	95.11%
Target Compounds			
1) HM Petroleum Range Organics	16.30	123803248	4266.856 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.
010301.D 0228PRO.M Wed Apr 06 15:07:30 2005 Page 1

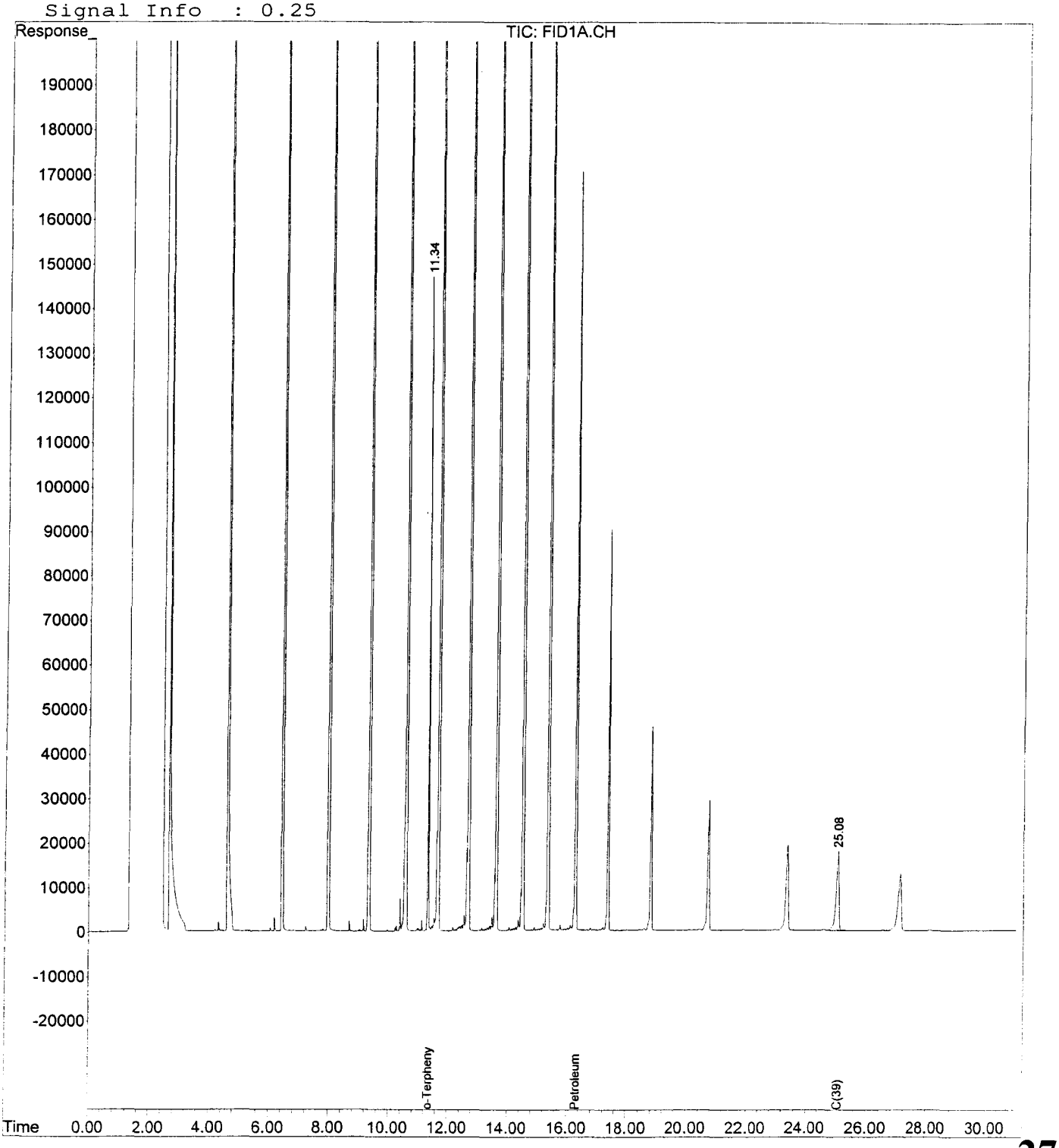
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010301.D
Acq On : 02/28/05 14:00
Sample : FLO 4250 PPM
Misc : ICAL 05SV014
IntFile : PRO0722.E
Quant Time: Feb 28 15:44 2005 Quant Results File: 0228PRO.RES

Vial: 7
Operator: BP
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:24:02 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010302.D Vial: 8
Acq On : 02/28/05 14:39 Operator: BP
Sample : FLO 5950 PPM Inst : HP-GCO
Misc : ICAL 05SV015 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Feb 28 15:24:47 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:24:39 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.36	4755238	107.722 ug/mlm
Spiked Amount 25.000		Recovery =	430.89%
3) SC C(39)	25.15f	2475519	607.185 ug/mlm
Spiked Amount 300.000		Recovery =	202.39%
Target Compounds			
1) HM Petroleum Range Organics	16.30	178381078	6147.815 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

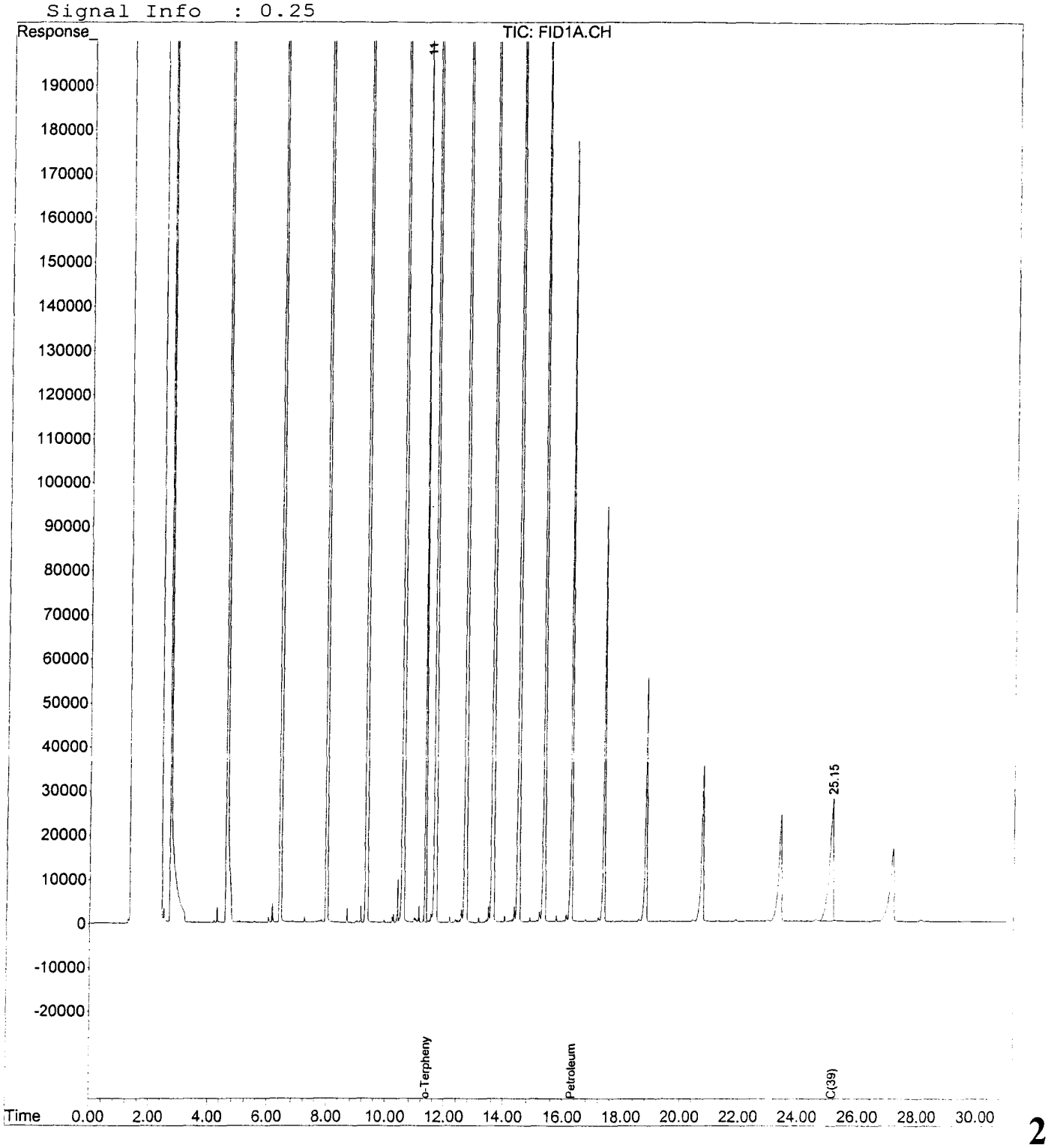
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010302.D
Acq On : 02/28/05 14:39
Sample : FLO 5950 PPM
Misc : ICAL 05SV015
IntFile : PRO0722.E
Quant Time: Feb 28 15:45 2005 Quant Results File: 0228PRO.RES

Vial: 8
Operator: BP
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:24:39 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\O10441.D Vial: 9
Acq On : 03/08/05 13:38 Operator: ML
Sample : FLPRO4250 Inst : HP-GCO
Misc : 05SV014 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 08 13:54:06 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.31	2237082	50.702 ug/mlm
Spiked Amount 25.000		Recovery =	202.81%
3) SC C(39)	25.03f	1161717	285.198 ug/mlm
Spiked Amount 150.000		Recovery =	190.13%
Target Compounds			
1) HM Petroleum Range Organics	16.30	123693625	4262.943 ug/ml

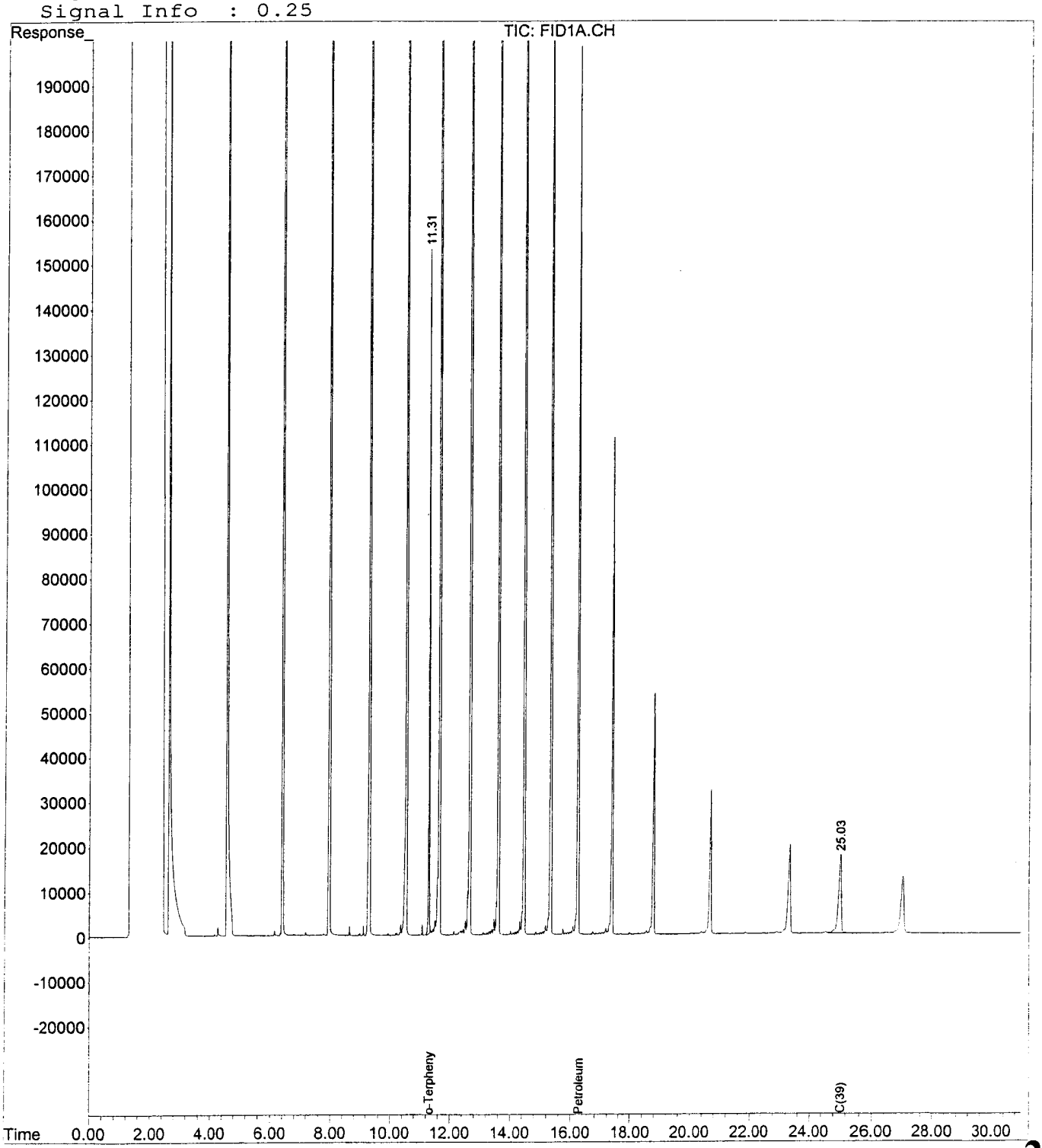
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010441.D
Acq On : 03/08/05 13:38
Sample : FLPRO4250
Misc : 05SV014
IntFile : PRO0722.E
Quant Time: Mar 8 14:14 2005 Quant Results File: 0228PRO.RES

Vial: 9
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Evaluate Continuing Calibration Report

Data File : E:\1\DATA\030805\010441.D
Acq On : 03/08/05 13:38
Sample : FLPRO4250
Misc : 05SV014
IntFile : PRO0722.E

Vial: 9
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Method : E:\1\METHODS\OLD METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	HM	Petroleum Range Organics	29.016	29.104 E3	-0.3	100	0.00
2	SC	o-Terphenyl	44.122	44.742 E3	-1.4	101	-0.22
3	SC	C(39)	4.073	3.872 E3	4.9	100	-0.42

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\O10453.D Vial: 20
Acq On : 03/08/05 21:22 Operator: ML
Sample : FLPRO4250 Inst : HP-GCO
Misc : 05SV014 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 09 08:56:56 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.31	2370583	53.728 ug/mlm
Spiked Amount 25.000		Recovery =	214.91%
3) SC C(39)	25.00	1285544	315.597 ug/mlm
Spiked Amount 150.000		Recovery =	210.40%
Target Compounds			
1) HM Petroleum Range Organics	16.30	128156220	4416.740 ug/ml

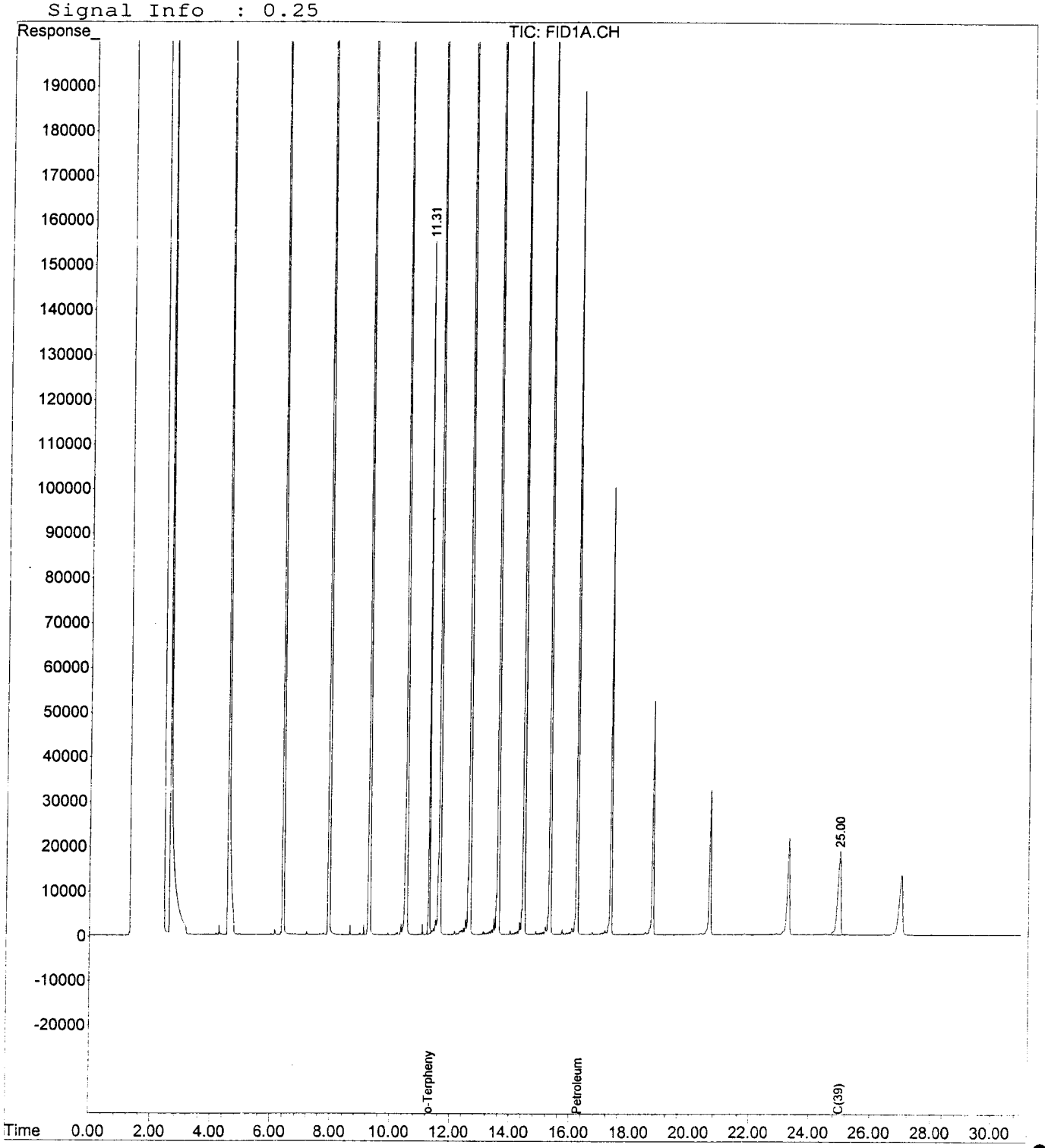
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010453.D
Acq On : 03/08/05 21:22
Sample : FLPRO4250
Misc : 05SV014
IntFile : PRO0722.E
Quant Time: Mar 9 9:16 2005 Quant Results File: 0228PRO.RES

Vial: 20
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Evaluate Continuing Calibration Report

Data File : E:\1\DATA\030805\O10453.D
Acq On : 03/08/05 21:22
Sample : FLPRO4250
Misc : 05SV014
IntFile : PRO0722.E

Vial: 20
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Method : E:\1\METHODS\OLD METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	HM	Petroleum Range Organics	29.016	30.154 E3	-3.9	104	0.00
2	SC	o-Terphenyl	44.122	47.412 E3	-7.5	107	-0.22
3	SC	C(39)	4.073	4.285 E3	-5.2	111	-0.45

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010464.D
Vial: 20
Acq On : 03/09/05 04:25
Operator: ML
Sample : FLPRO4250
Inst : HP-GCO
Misc : 05SV014
Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 09 08:57:26 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.30	2111000	47.844 ug/mlm
Spiked Amount 25.000		Recovery =	191.38%
3) SC C(39)	25.02	1448113	355.508 ug/mlm
Spiked Amount 150.000		Recovery =	237.01%
Target Compounds			
1) HM Petroleum Range Organics	16.30	117994587	4066.533 ug/ml

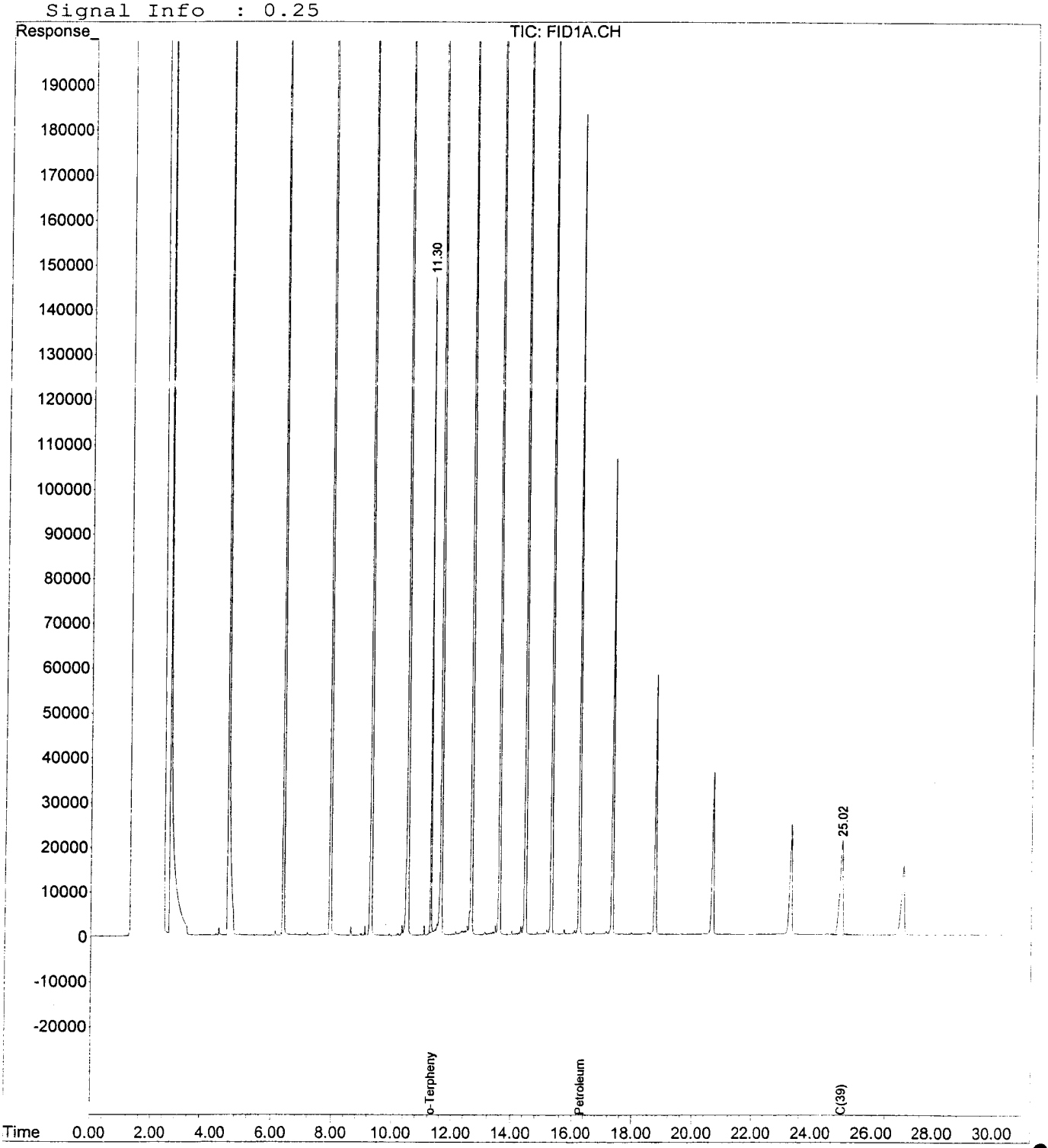
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010464.D
Acq On : 03/09/05 04:25
Sample : FLPRO4250
Misc : 05SV014
IntFile : PRO0722.E
Quant Time: Mar 9 9:17 2005 Quant Results File: 0228PRO.RES

Vial: 20
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Evaluate Continuing Calibration Report

Data File : E:\1\DATA\030805\010464.D
Acq On : 03/09/05 04:25
Sample : FLPRO4250
Misc : 05SV014
IntFile : PRO0722.E

Vial: 20
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Method : E:\1\METHODS\OLD METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
1	HM	Petroleum Range Organics	29.016	27.763	E3	4.3	95	0.00
2	SC	o-Terphenyl	44.122	42.220	E3	4.3	96	-0.23
3	SC	C(39)	4.073	4.827	E3	-18.5	124	-0.43

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010471.D Vial: 37
Acq On : 03/09/05 08:55 Operator: ML
Sample : FLPRO2150 Inst : HP-GCO
Misc : 05SV013 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 09 09:08:17 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.30	2202996	49.929 ug/mlm
Spiked Amount 25.000		Recovery =	199.72%
3) SC C(39)	24.96	1066724	261.878 ug/mlm
Spiked Amount 150.000		Recovery =	174.59%
Target Compounds			
1) HM Petroleum Range Organics	16.30	60001099	2067.861 ug/ml

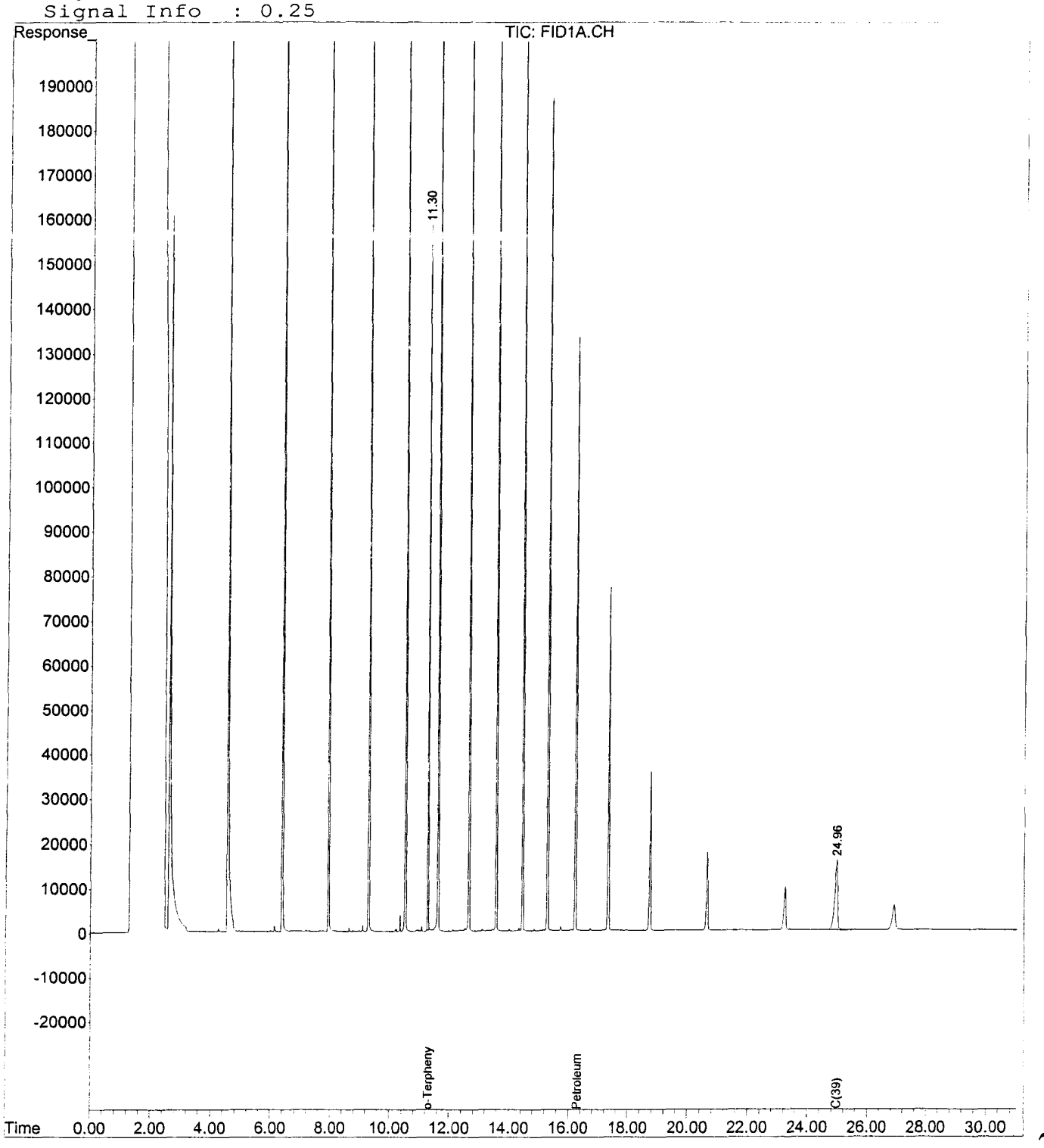
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\030805\010471.D
Acq On : 03/09/05 08:55
Sample : FLPRO2150
Misc : 05SV013
IntFile : PRO0722.E
Quant Time: Mar 9 9:28 2005 Quant Results File: 0228PRO.RES

Vial: 37
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Wed Mar 02 16:19:43 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Evaluate Continuing Calibration Report

Data File : E:\1\DATA\030805\010471.D
Acq On : 03/09/05 08:55
Sample : FLPRO2150
Misc : 05SV013
IntFile : PRO0722.E

Vial: 37
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Method : E:\1\METHODS\OLD METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	HM	Petroleum Range Organics	29.016	28.236 E3	2.7	98	0.00
2	SC	o-Terphenyl	44.122	45.896 E3	-4.0	102	-0.23
3	SC	C(39)	4.073	3.556 E3	12.7	73	-0.49

ACCURA ANALYTICAL LABS (AAL), INC.

6017 Financial Drive, Norcross, GA 30071
Phone: (770) 449-8800 Fax:(770) 449-5477

Tetra Tech NUS NAS Pensacola / OLF Bronson / N5967
AAL Work Order No: 7765

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WO # 7765

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 4300 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N5967	OLF Branson	Gerry Walker	850-385-8899	Accura Analytical / David Fuller
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		Howard Engle	850-385-8899	6017 Financial Dr
		CARRIER/WAYBILL NUMBER		CITY, STATE
				Norcross GA

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

DATE YEAR 2005	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	VOCs (8260)	PAHs (8270SIM)	TRPH (FL-PRO)	TOC (415.1)	Sulfate (300.0)	COMMENTS	
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G	G	G	P		
PRESERVATIVE USED									HCl	N/A	HCl	HCl	N/A		
3/3	1530	BRN-1130-MW27-6	MW27	18.65	24.53	GW	G	9	3	2	2	2	1	see WO# 7765	001
	1500	MW18-6	MW18	16.15	22.02									1001473	002
	1200	3/7/05 MW24-6	MW24	15.44	23.62									under	003
	1100	MW16R-6	MW16R	14.31	24.7									MSA #	004
	1005	MW7-6	MW7	14.79	21.86									MSA-0402-N4113	005
	1615	MW28-6	MW28	18.95	29.22										006
	1715	MW32-6	MW32												007
		TB02390	N/A												008

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
	3/3/05	1900		3/5/05	
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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4/02R
FORM NO. TINUS-001

ACCURA ANALYTICAL LABORATORY, INC. (AAL)

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FL Certification #E87429 ▪ NC Certification #483
SC Certification #98015 ▪ Utah Certification #AALI1
USACE Approved ▪ Navy Certification Code NFESC 413

Case Narrative

AAL Work Order # 7765

Client Project: NAS Pensacola / OLF Bronson / CTO 302
TtNUS Project Number: N5967
TtNUS Project Manager: Gerry Walker

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package is a total of **294** pages including: table of contents, case narrative, Chain of Custody, Sample Receipt Checklist, QA verification statement, analytical results summary forms, raw sample data, calibration data, and logbook pages.

The following items were noted concerning this work order:

PAHs by SW8270C SIM Notations:

1. Recovery of the p-Terphenyl surrogate was outside the laboratory-derived limits due to possible matrix interference for the following samples, as indicated by the "J" qualifiers: BRN-1120-MW27-6, BRN-1120-MW16R-6, BRN-1120-MW28-6, BRN-1120-MW7-6, BRN-1120-MW32-6, and BRN-1120-MW16R-6 DIL. No target analytes associated with this surrogate were detected in these samples.

2. Recovery of the Nitrobenzene-d5 surrogate in the Blank Spike was outside the laboratory-derived limits, as indicated by the "J" qualifier. However, all spike standard recoveries were within acceptable limits; therefore the data was accepted.

Chris Pittman — *March 16, 2005*
Chris Pittman — Date
SVOC Analyst

These case narrative notations have been reviewed/edited by:

David C. Fuller — *April 7, 2005*
David C. Fuller — Date
VP – Client Services

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ACCURA ANALYTICAL LABORATORY, INC.

COPY

SAMPLE RECEIPT CHECKLIST VERSION 6 Client Code: 210606 AAL Project Mgr: DCF

Client Project Name: OLF Bronson ACCURA Work Order#: 7765

Are there EnCores, tests with < 48Hr hold times, or RUSH TAT's requested? YES (NO)

If YES, you must communicate RUSH analyses to the appropriate analyst(s) immediately!!! / or preserve EnCores (see #16 below)!!!

Preliminary Examination: Initials: Bm Date received: 3/5/05 Date cooler was opened: 3/5/05

1. Did cooler/package come with a shipping slip (airbill, Etc.)? (YES) NO
   If YES, enter carrier name and airbill number here: FedEx- 8350 5454 9181, 7945 7236 8320, 8331

   Describe type of packing in cooler: Bubble Wrap, Ice Bags

   ******If cooler was hand delivered, CIRCLE HERE, skip to item #5******
2. Were custody seals on outside of cooler? YES (NO)
   If YES, how many:______seal dated:____________seal name:____________
3. Were custody seals unbroken and intact at the date and time of arrival? YES (N/A) NO
4. Were custody papers sealed in a plastic bag to prevent damage to chain of custody? (YES) NO
5. If required, was enough ice used? **(Internal cooler temperature, 3°C)** (YES) N/A NO
6. Did you sign custody papers in the appropriate place? (YES) NO
7. Was project identifiable from custody papers? (YES) NO
   If YES, enter project name at the top.

****

Complete project file with green sheet, proper file tag, and shipping documentation. Line up samples following chain. Complete Container Receipt Verification form (include extra containers for dissolved metals filtrates). Complete login in XENCO and generate AAL ID Labels.

8. Did all containers arrive unbroken and were labels in good condition? (YES) NO
9. Were custody papers filled out properly and did all labels agree with custody papers? ~~YES~~ Bm 3/6/05 (NO)
10. Were correct containers and sufficient amount of sample sent for the test indicated? (YES) NO
11. All samples collected within three days of date received for these analyses
    (Reactive Cn & S, Solids in H2O, Sulfide, Sulfite, !ALL! Extractable Organic Waters)? (YES) N/A NO
    If NO, coordinate with the project manager to ensure that no samples go out of hold!!!
12. No residual chlorine found in waters for these analyses:
    (Cyanide, PAH, SVOC, Pesticides, PCB's, Herbicides)? (YES) N/A NO
    Checked by: Bm **(Initials)**
13. Were samples properly chemically preserved, if required, upon receipt? (YES) N/A NO
    (For example: pH checked for waters for all Metals, Wet Chemistry, Pesticides, PCB's, Herbicides, and VOC/BTEX samples submitted with HCL for waters and in either Encore samplers or $NaHSO_4$ labeled vials for soils)
    Preservation checked by: Bm **(Initials)**
14. Were air bubbles (>1/4 inch) absent in VOC/BTEX samples? (YES) N/A NO
    If NO, list ID # on back and label vials with "Do Not Use Until Notified By Management":
15. If there are samples for dissolved metals, were they field filtered? YES (N/A) NO
    If NO, list date and time samples were filtered and preserved in lab:____________

****

16. Were Encore samplers included? YES (NO)
    If YES, date and time preserved with $NaHSO_4$:__________By whom:__________
17. Does this submittal contain soil $NaHSO_4$ vials for BTEX/GRO/VOC'S? YES (NO)
    If YES, vials weighed by and entered into vial database by:__________
18. Initials of laboratory personnel responsible for labeling laboratory I.D. numbers on containers: Bm

****

Keep samples and chain out Before moving samples to their appropriate location, another person must review the entire project ensuring that information on the AAL ID Barcode label matches the container label, and that all information is consistent with the chain.

Final check and samples logged to locations by:__________(Initials)

19. Was it necessary to call the assigned project manager in order to proceed with login? (YES) NO
    If YES, give details on the back of this form.
20. Who was called? DCF By whom? MFB Date/Time: 3/7/05 0900

Project Mgr. Review: DCF **(Initials)** 3/7/05 **(Date)**

COPY

ACCURA ANALYTICAL LABORATORY, INC.
SAMPLE RECEIPT VARIANCE FORM

COPY

Item #	Discrepancies Noted:
9-1	COC states BRN-1140, containers state BRN-1120.

COPY

Item #	Actions Taken:
9-1	Notified PM. (Sent email to Howard Engle on 3/7/05 to confirm whether to use "1140" or "1120". Per email from Howard Engle on 3/7/05, "1120" is correct... modified COC. DJ

COPY

Project Mgr. Review: DJ (Initials) 3/7/05 (Date)

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FL Certification #E87429 ▪ NC Certification #483
SC Certification #98015 ▪ Utah Certification #AALI1
USACE Approved ▪ Navy Certification Code NFESC 413

I, John Amirtham, as the designated Quality Assurance Officer, hereby attest that all electronic deliverables have been thoroughly reviewed and are in agreement with the associated hardcopy data. The enclosed electronic files have been reviewed for accuracy (including significant figures), completeness and format. The laboratory will be responsible for any labor time necessary to correct enclosed electronic deliverables that have been found to be in error. I can be reached at 770-449-8800, ext. 205 or JohnA@accura.com, if there are any questions or problems with the enclosed electronic deliverables.

Signature: _____ Title: Manager-Quality Assurance Date: 04/07/05

Revision 7
LL
10/07/04

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW27-6

Lab Name : ACCURA ANALYTICAL LAB
Contract: N5967
Lab Code : ACCURA
Case No.: 7765
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 7765-001
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 1B031105\B47876
Level : (low/med) LOW
Date Received: 03/05/05
% Moisture:
Decanted: (Y/N) N
Date Extracted: 03/09/05
Concentrated Extract Volume: 1000 (µ L)
Date Analyzed: 03/11/05
Injection Volume: 2.0 (µ L)
Dilution Factor: 1.0
GPC Cleanup (Y/N): N
pH: N/A
Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.20	U
91-57-6	2-Methylnaphthalene	0.20	U
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.20	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	0.20	U
85-01-8	Phenanthrene	0.20	U
129-00-0	Pyrene	0.20	U

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW18-6

Lab Name : ACCURA ANALYTICAL LAB
Contract: N5967
Lab Code : ACCURA
Case No.: 7765
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 7765-002
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 1B031105\B47879
Level : (low/med) LOW
Date Received: 03/05/05
% Moisture:
Decanted: (Y/N) N
Date Extracted: 03/09/05
Concentrated Extract Volume: 1000 (μ L)
Date Analyzed: 03/11/05
Injection Volume: 2.0 (μ L)
Dilution Factor: 1.0
GPC Cleanup (Y/N): N
pH: N/A
Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.20	U
91-57-6	2-Methylnaphthalene	0.20	U
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.20	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	0.20	U
85-01-8	Phenanthrene	0.20	U
129-00-0	Pyrene	0.20	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW24-6

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-003

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B031105\B47880

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/09/05

Concentrated Extract Volume: 1000 (µ L) Date Analyzed: 03/11/05

Injection Volume: 2.0 (µ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	3.4	L
91-57-6	2-Methylnaphthalene	20	L
83-32-9	Acenaphthene	0.40	
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.86	
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	0.28	
85-01-8	Phenanthrene	0.88	
129-00-0	Pyrene	0.20	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW24-6 DIL1

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-003 DIL1

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B031505\B47891

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/09/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/15/05

Injection Volume: 2.0 (μ L) Dilution Factor: 5.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	3.6	
91-57-6	2-Methylnaphthalene	20	L
83-32-9	Acenaphthene	0.48	I
208-96-8	Acenaphthylene	1.0	U
120-12-7	Anthracene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
50-32-8	Benzo(a)pyrene	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U
191-24-2	Benzo(g,h,i)perylene	1.0	U
207-08-9	Benzo(k)fluoranthene	1.0	U
218-01-9	Chrysene	1.0	U
53-70-3	Dibenz(a,h)Anthracene	1.0	U
206-44-0	Fluoranthene	1.0	U
86-73-7	Fluorene	1.0	
193-39-5	Indeno(1,2,3-c,d)Pyrene	1.0	U
91-20-3	Naphthalene	0.31	I
85-01-8	Phenanthrene	0.81	I
129-00-0	Pyrene	1.0	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW24-6 DIL2

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-003 DIL2

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B031505\B47892

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/09/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/15/05

Injection Volume: 2.0 (μ L) Dilution Factor: 20.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	3.7	I
91-57-6	2-Methylnaphthalene	17	
83-32-9	Acenaphthene	4.0	U
208-96-8	Acenaphthylene	4.0	U
120-12-7	Anthracene	4.0	U
56-55-3	Benzo(a)anthracene	4.0	U
50-32-8	Benzo(a)pyrene	4.0	U
205-99-2	Benzo(b)fluoranthene	4.0	U
191-24-2	Benzo(g,h,i)perylene	4.0	U
207-08-9	Benzo(k)fluoranthene	4.0	U
218-01-9	Chrysene	4.0	U
53-70-3	Dibenz(a,h)Anthracene	4.0	U
206-44-0	Fluoranthene	4.0	U
86-73-7	Fluorene	0.94	I
193-39-5	Indeno(1,2,3-c,d)Pyrene	4.0	U
91-20-3	Naphthalene	4.0	U
85-01-8	Phenanthrene	4.0	U
129-00-0	Pyrene	4.0	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW16R-6

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-004

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B031105\B47881

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/09/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/11/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	1.4	
91-57-6	2-Methylnaphthalene	2.5	L
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.079	I
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	0.20	U
85-01-8	Phenanthrene	0.057	I
129-00-0	Pyrene	0.20	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW16R-6 DIL

Lab Name : ACCURA ANALYTICAL LAB

Contract: N5967

Lab Code : ACCURA

Case No.: 7765

SAS No.

SDG No.: N/A

Matrix : (soil/water) WATER

Lab Sample Id: 7765-004 DIL

Sample wt/vol: 1000 (g/ml): ML

Lab File ID: 1B031505\B47893

Level : (low/med) LOW

Date Received: 03/05/05

% Moisture:

Decanted: (Y/N) N

Date Extracted: 03/09/05

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 03/15/05

Injection Volume: 2.0 (μ L)

Dilution Factor: 2.0

GPC Cleanup (Y/N): N

pH: N/A

Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	1.4	
91-57-6	2-Methylnaphthalene	2.4	
83-32-9	Acenaphthene	0.40	U
208-96-8	Acenaphthylene	0.40	U
120-12-7	Anthracene	0.40	U
56-55-3	Benzo(a)anthracene	0.40	U
50-32-8	Benzo(a)pyrene	0.40	U
205-99-2	Benzo(b)fluoranthene	0.40	U
191-24-2	Benzo(g,h,i)perylene	0.40	U
207-08-9	Benzo(k)fluoranthene	0.40	U
218-01-9	Chrysene	0.40	U
53-70-3	Dibenz(a,h)Anthracene	0.40	U
206-44-0	Fluoranthene	0.40	U
86-73-7	Fluorene	0.40	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.40	U
91-20-3	Naphthalene	0.40	U
85-01-8	Phenanthrene	0.40	U
129-00-0	Pyrene	0.40	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW7-6

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-005

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B031505\B47889

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/09/05

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 03/15/05

Injection Volume: 2.0 (µL) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.20	U
91-57-6	2-Methylnaphthalene	0.20	U
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.20	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	0.20	U
85-01-8	Phenanthrene	0.20	U
129-00-0	Pyrene	0.20	U

1C
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW28-6

Lab Name : ACCURA ANALYTICAL LAB
Contract: N5967
Lab Code : ACCURA
Case No.: 7765
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 7765-006
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 1B031105\B47883
Level : (low/med) LOW
Date Received: 03/05/05
% Moisture:
Decanted: (Y/N) N
Date Extracted: 03/09/05
Concentrated Extract Volume: 1000 (µ L)
Date Analyzed: 03/11/05
Injection Volume: 2.0 (µ L)
Dilution Factor: 1.0
GPC Cleanup (Y/N): N
pH: N/A
Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.20	U
91-57-6	2-Methylnaphthalene	0.20	U
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.20	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	0.20	U
85-01-8	Phenanthrene	0.20	U
129-00-0	Pyrene	0.20	U

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW32-6

Lab Name : ACCURA ANALYTICAL LAB
Contract: N5967
Lab Code : ACCURA
Case No.: 7765
SAS No.
SDG No.: N/A
Matrix : (soil/water) WATER
Lab Sample Id: 7765-007
Sample wt/vol: 1000 (g/ml): ML
Lab File ID: 1B031505\B47890
Level : (low/med) LOW
Date Received: 03/05/05
% Moisture:
Decanted: (Y/N) N
Date Extracted: 03/09/05
Concentrated Extract Volume: 1000 (μ L)
Date Analyzed: 03/15/05
Injection Volume: 2.0 (μ L)
Dilution Factor: 1.0
GPC Cleanup (Y/N): N
pH: N/A
Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.20	U
91-57-6	2-Methylnaphthalene	0.20	U
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.20	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	0.20	U
85-01-8	Phenanthrene	0.20	U
129-00-0	Pyrene	0.20	U

1D

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

25364 BLK

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 25364 BLK

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B031105\B47874

Level : (low/med) LOW Date Received: _____

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 03/09/05

Concentrated Extract Volume: 1000 (µ L) Date Analyzed: 03/11/05

Injection Volume: 2.0 (µ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.20	U
91-57-6	2-Methylnaphthalene	0.20	U
83-32-9	Acenaphthene	0.20	U
208-96-8	Acenaphthylene	0.20	U
120-12-7	Anthracene	0.20	U
56-55-3	Benzo(a)anthracene	0.20	U
50-32-8	Benzo(a)pyrene	0.20	U
205-99-2	Benzo(b)fluoranthene	0.20	U
191-24-2	Benzo(g,h,i)perylene	0.20	U
207-08-9	Benzo(k)fluoranthene	0.20	U
218-01-9	Chrysene	0.20	U
53-70-3	Dibenz(a,h)Anthracene	0.20	U
206-44-0	Fluoranthene	0.20	U
86-73-7	Fluorene	0.20	U
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.20	U
91-20-3	Naphthalene	0.20	U
85-01-8	Phenanthrene	0.20	U
129-00-0	Pyrene	0.20	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

25364 BKS

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 25364 BKS

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 1B031105\B47875

Level : (low/med) LOW Date Received: _____

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 03/09/05

Concentrated Extract Volume: 1000 (µ L) Date Analyzed: 03/11/05

Injection Volume: 2.0 (µ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.39	
91-57-6	2-Methylnaphthalene	0.42	
83-32-9	Acenaphthene	0.43	
208-96-8	Acenaphthylene	0.44	
120-12-7	Anthracene	0.55	
56-55-3	Benzo(a)anthracene	0.57	
50-32-8	Benzo(a)pyrene	0.55	
205-99-2	Benzo(b)fluoranthene	0.57	
191-24-2	Benzo(g,h,i)perylene	0.34	
207-08-9	Benzo(k)fluoranthene	0.52	
218-01-9	Chrysene	0.50	
53-70-3	Dibenz(a,h)Anthracene	0.33	
206-44-0	Fluoranthene	0.60	
86-73-7	Fluorene	0.48	
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.45	
91-20-3	Naphthalene	0.40	
85-01-8	Phenanthrene	0.62	
129-00-0	Pyrene	0.48	

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW27-6 MS

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-001 MS

Sample wt/vol: 500 (g/ml): ML Lab File ID: 1B031105\B47877

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/09/05

Concentrated Extract Volume: 500 (µ L) Date Analyzed: 03/11/05

Injection Volume: 2.0 (µ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.61	
91-57-6	2-Methylnaphthalene	0.69	
83-32-9	Acenaphthene	0.70	
208-96-8	Acenaphthylene	0.74	
120-12-7	Anthracene	0.91	
56-55-3	Benzo(a)anthracene	1.1	
50-32-8	Benzo(a)pyrene	1.0	
205-99-2	Benzo(b)fluoranthene	1.1	
191-24-2	Benzo(g,h,i)perylene	0.83	
207-08-9	Benzo(k)fluoranthene	0.99	
218-01-9	Chrysene	0.90	
53-70-3	Dibenz(a,h)Anthracene	0.96	
206-44-0	Fluoranthene	1.0	
86-73-7	Fluorene	0.79	
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.82	
91-20-3	Naphthalene	0.64	
85-01-8	Phenanthrene	1.1	
129-00-0	Pyrene	0.88	

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW27-6 MSD

Lab Name : ACCURA ANALYTICAL LAB Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-001 MSD

Sample wt/vol: 500 (g/ml): ML Lab File ID: 1B031105\B47878

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/09/05

Concentrated Extract Volume: 500 (µL) Date Analyzed: 03/11/05

Injection Volume: 2.0 (µL) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
90-12-0	1-Methylnaphthalene	0.59	
91-57-6	2-Methylnaphthalene	0.65	
83-32-9	Acenaphthene	0.67	
208-96-8	Acenaphthylene	0.72	
120-12-7	Anthracene	0.96	
56-55-3	Benzo(a)anthracene	1.1	
50-32-8	Benzo(a)pyrene	1.0	
205-99-2	Benzo(b)fluoranthene	1.1	
191-24-2	Benzo(g,h,i)perylene	0.79	
207-08-9	Benzo(k)fluoranthene	0.96	
218-01-9	Chrysene	0.89	
53-70-3	Dibenz(a,h)Anthracene	0.92	
206-44-0	Fluoranthene	1.1	
86-73-7	Fluorene	0.79	
193-39-5	Indeno(1,2,3-c,d)Pyrene	0.79	
91-20-3	Naphthalene	0.58	
85-01-8	Phenanthrene	1.1	
129-00-0	Pyrene	0.91	

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ACCURA ANALYTICAL LAB Contract: N5967

Lab Code: ACCURA Case No.: 7765 SAS NO.: _____ SDG NO.: N/A

	EPA SAMPLE NO.	S1 (FBP)	S2 (NBZ)	S3 (TPH)	S4 ( )	S5 ( )	S6 ( )	S7 ( )	S8 ( )	TOT OUT
1	25364 BLK	86	84	117						0
2	25364 BKS	47	44J	71						1
3	BRN-1120-MW27-6	86	89	162J						1
4	BRN-1120-MW27-6 MS	75	71	121						0
5	BRN-1120-MW27-6 MSD	74	74	123						0
6	BRN-1120-MW18-6	76	77	113						0
7	BRN-1120-MW24-6	49	70	116						0
8	BRN-1120-MW16R-6	68	78	193J						1
9	BRN-1120-MW28-6	76	74	165J						1
10	BRN-1120-MW7-6	77	80	160J						1
11	BRN-1120-MW32-6	76	79	146J						1
12	BRN-1120-MW24-6 DIL1	62	29	116						0
13	BRN-1120-MW24-6 DIL2	57	36	106						0
14	BRN-1120-MW16R-6 DIL	68	53	214J						1

		QC LIMITS	
S1	(FBP) = 2-Fluorobiphenyl	(18 - 96)	
S2	(NBZ) = Nitrobenzene-d5	(25 - 114)	
S3	(TPH) = p-Terphenyl	(18 - 142)	
S4		(-)	
S5		(-)	
S6		(-)	
S7		(-)	(advisory)
S8		(-)	(advisory)

Column to be used to flag recovery values

J ~~Z~~ Values outside of contract required QC limits

8/8 8/10/05 D Surrogate diluted out

3C
WATER SEMIVOLATILE BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. : N/A

Blank Spike - EPA Sample No. : 25364 BKS

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BKS CONCENTRATION (ug/L)	BKS % REC #	QC LIMITS REC.
1-Methylnaphthalene	1.0	0	0.39	39	30-160
2-Methylnaphthalene	1.0	0	0.42	42	30-160
Acenaphthene	1.0	0	0.43	43	54-114
Acenaphthylene	1.0	0	0.44	44	30-160
Anthracene	1.0	0	0.55	55	30-160
Benzo(a)anthracene	1.0	0	0.57	57	30-160
Benzo(a)pyrene	1.0	0	0.55	55	30-160
Benzo(b)fluoranthene	1.0	0	0.57	57	30-160
Benzo(g,h,i)perylene	1.0	0	0.34	34	30-160
Benzo(k)fluoranthene	1.0	0	0.52	52	30-160
Chrysene	1.0	0	0.50	50	30-160
Dibenz(a,h)Anthracene	1.0	0	0.33	33	30-160
Fluoranthene	1.0	0	0.60	60	30-160
Fluorene	1.0	0	0.48	48	30-160
Indeno(1,2,3-c,d)Pyrene	1.0	0	0.45	45	30-160
Naphthalene	1.0	0	0.40	40	30-160
Phenanthrene	1.0	0	0.62	62	30-160
Pyrene	1.0	0	0.48	48	51-129

Column to be used to flag recovery and RPD values with and asterisk

* Values outside of QC limits

RPD 0 out of 18 outside limit

Spike Recovery 2 out of 36 outside limit

Comments : _____

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA CASE No. : 7765 SAS No. : _____ SDG No. : N/A

Matrix Spike - EPA Sample No. BRN-1120-MW27-6 MS

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC LIMITS REC.
1-Methylnaphthalene	1.0	0	0.61	61	50-150
2-Methylnaphthalene	1.0	0	0.69	69	50-150
Acenaphthene	1.0	0	0.70	70	32-121
Acenaphthylene	1.0	0	0.74	74	50-150
Anthracene	1.0	0	0.91	91	50-150
Benzo(a)anthracene	1.0	0	1.1	110	50-150
Benzo(a)pyrene	1.0	0	1.0	100	50-150
Benzo(b)fluoranthene	1.0	0	1.1	110	50-150
Benzo(g,h,i)perylene	1.0	0	0.83	83	50-150
Benzo(k)fluoranthene	1.0	0	0.99	99	50-150
Chrysene	1.0	0	0.90	90	50-150
Dibenz(a,h)Anthracene	1.0	0	0.96	96	50-150
Fluoranthene	1.0	0	1.0	100	50-150
Fluorene	1.0	0	0.79	79	50-150
Indeno(1,2,3-c,d)Pyrene	1.0	0	0.82	82	50-150
Naphthalene	1.0	0	0.64	64	50-150
Phenanthrene	1.0	0	1.1	110	50-150
Pyrene	1.0	0	0.88	88	22-140

COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC
1-Methylnaphthalene	1.0	0.59	59	3	30	50-150
2-Methylnaphthalene	1.0	0.65	65	6	30	50-150
Acenaphthene	1.0	0.67	67	4	30	32-121
Acenaphthylene	1.0	0.72	72	3	30	50-150
Anthracene	1.0	0.96	96	5	30	50-150
Benzo(a)anthracene	1.0	1.1	110	0	30	50-150
Benzo(a)pyrene	1.0	1.0	100	0	30	50-150
Benzo(b)fluoranthene	1.0	1.1	110	0	30	50-150
Benzo(g,h,i)perylene	1.0	0.79	79	5	30	50-150
Benzo(k)fluoranthene	1.0	0.96	96	3	30	50-150
Chrysene	1.0	0.89	89	1	30	50-150
Dibenz(a,h)Anthracene	1.0	0.92	92	4	30	50-150
Fluoranthene	1.0	1.1	110	10	30	50-150
Fluorene	1.0	0.79	79	0	30	50-150
Indeno(1,2,3-c,d)Pyrene	1.0	0.79	79	4	30	50-150

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA CASE No. :7765 SAS No. : _____ SDG No. : N/A

Matrix Spike - EPA Sample No. BRN-1120-MW27-6 MS

COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC
Naphthalene	1.0	0.58	58	10	30	50-150
Phenanthrene	1.0	1.1	110	0	30	50-150
Pyrene	1.0	0.91	91	3	30	22-140

Column to be used to flag recovery and RPD Values with and asterisk.

* Values outside of QC limits

RPD 0 Out of 18 outside Limit

Spike Recovery : 0 Out of 36 outside limit

Comments : _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
25364 BLK

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : SDG No. : N/A

Lab File ID 1B031105\B47874.D Lab Sample ID : 25364 BLK

Instrument ID : HP-MSB Date Extracted : 03/09/05

Matrix : (soil/ water) WATER Date Analyzed : 03/11/05

Level : (low/med) LOW Time Analyzed : 17:28

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD :

	EPA SAMPLE NO..	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	25364 BKS	25364 BKS	1B031105\B47875.I	03/11/05
2	BRN-1120-MW27-6	7765-001	1B031105\B47876.I	03/11/05
3	BRN-1120-MW27-6 MS	7765-001 MS	1B031105\B47877.I	03/11/05
4	BRN-1120-MW27-6 MSD	7765-001 MSD	1B031105\B47878.I	03/11/05
5	BRN-1120-MW18-6	7765-002	1B031105\B47879.I	03/11/05
6	BRN-1120-MW24-6	7765-003	1B031105\B47880.I	03/11/05
7	BRN-1120-MW16R-6	7765-004	1B031105\B47881.I	03/11/05
8	BRN-1120-MW28-6	7765-006	1B031105\B47883.I	03/11/05
9	BRN-1120-MW7-6	7765-005	1B031505\B47889.I	03/15/05
10	BRN-1120-MW32-6	7765-007	1B031505\B47890.I	03/15/05
11	BRN-1120-MW24-6 DIL1	7765-003 DIL1	1B031505\B47891.I	03/15/05
12	BRN-1120-MW24-6 DIL2	7765-003 DIL2	1B031505\B47892.I	03/15/05
13	BRN-1120-MW16R-6 DIL	7765-004 DIL	1B031505\B47893.I	03/15/05

COMMENTS:

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : SDG No. : N/A

Lab File ID : DFTPP Injection Date : 03/11/05

Instrument ID : HP-MSB DFTPP Injection Time : 12:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	35.0	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	45.1	
70	Less than 2.0% of mass 69	0.0	(0.0)1
127	40.0 - 60.0% of mass 198	44.4	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.7	
275	10.0 - 30.0% of mass 198	23.0	
365	Greater than 1.0% of mass 198	2.0	
441	Present, but less than mass 443	7.1	
442	40.0 - 110.0% of mass 198	49.8	
443	17.0 - 23.0% of mass 442	9.5	(19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS :

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD010B55	SSTD010B55	1B031105\B47864	03/11/05	12:15
2	SSTD020B55	SSTD020B55	1B031105\B47865	03/11/05	12:47
3	SSTD050B55	SSTD050B55	1B031105\B47866	03/11/05	13:18
4	SSTD080B55	SSTD080B55	1B031105\B47867	03/11/05	13:49
5	SSTD120B55	SSTD120B55	1B031105\B47868	03/11/05	14:20
6	SSTD160B55	SSTD160B55	1B031105\B47869	03/11/05	14:51
7	SSTD050B56	SSTD050B56	1B031105\B47871	03/11/05	15:54
8	25364 BLK	25364 BLK	1B031105\B47874	03/11/05	17:28
9	25364 BKS	25364 BKS	1B031105\B47875	03/11/05	17:59
10	BRN-1120-MW27-6	7765-001	1B031105\B47876	03/11/05	18:31
11	BRN-1120-MW27-6 MS	7765-001 MS	1B031105\B47877	03/11/05	19:02
12	BRN-1120-MW27-6 MSD	7765-001 MSD	1B031105\B47878	03/11/05	19:33
13	BRN-1120-MW18-6	7765-002	1B031105\B47879	03/11/05	20:05
14	BRN-1120-MW24-6	7765-003	1B031105\B47880	03/11/05	20:36
15	BRN-1120-MW16R-6	7765-004	1B031105\B47881	03/11/05	21:07
16	BRN-1120-MW28-6	7765-006	1B031105\B47883	03/11/05	22:10

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : SDG No. : N/A

Lab File ID : DFTPP Injection Date : 03/15/05

Instrument ID : HP-MSB DFTPP Injection Time : 14:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	37.4	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	47.1	
70	Less than 2.0% of mass 69	0.0	(0.0)1
127	40.0 - 60.0% of mass 198	45.5	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.6	
275	10.0 - 30.0% of mass 198	23.1	
365	Greater than 1.0% of mass 198	2.1	
441	Present, but less than mass 443	8.0	
442	40.0 - 110.0% of mass 198	54.2	
443	17.0 - 23.0% of mass 442	10.3	(19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS :

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD050B57	SSTD050B57	1B031505\B47886	03/15/05	14:48
2	BRN-1120-MW7-6	7765-005	1B031505\B47889	03/15/05	16:20
3	BRN-1120-MW32-6	7765-007	1B031505\B47890	03/15/05	16:52
4	BRN-1120-MW24-6 DIL1	7765-003 DIL1	1B031505\B47891	03/15/05	17:23
5	BRN-1120-MW24-6 DIL2	7765-003 DIL2	1B031505\B47892	03/15/05	17:54
6	BRN-1120-MW16R-6 DIL	7765-004 DIL	1B031505\B47893	03/15/05	18:25

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. : N/A

Instrument ID: HP-MSB Calibration Date(s): 03/11/05 03/11/05

Calibration Times: 12:15 14:51

LAB FILE ID: RRF10 = 1B031105\B47864 RRF20 = 1B031105\B47865

RRF50 = 1B031105\B47866 RRF80 = 1B031105\B47867 RRF120 = 1B031105\B47868

COMPOUND		RRF10	RRF20	RRF50	RRF80	RRF120	$\overline{RRF}$	% RSD
1-Methylnaphthalene	*	0.917	0.792	0.799	0.793	0.794		
2-Methylnaphthalene	*	0.482	0.493	0.520	0.540	0.578		
Acenaphthene	*	1.657	1.717	1.744	1.750	1.802		
Acenaphthylene	*	2.321	2.405	2.593	2.644	2.794		
Anthracene	*	1.278	1.294	1.333	1.405	1.474		
Benzo(a)anthracene	*	1.207	1.008	1.312	1.248	1.505		
Benzo(a)pyrene	*	1.391	1.530	1.654	1.589	1.721		
Benzo(b)fluoranthene	*	1.171	1.020	1.418	1.489	1.766		
Benzo(g,h,i)perylene	*	2.241	2.010	1.654	1.639	1.560		
Benzo(k)fluoranthene	*	2.161	2.561	2.534	2.354	2.314		
Chrysene	*	2.101	2.031	1.994	1.982	1.958		
Dibenz(a,h)Anthracene	*	0.933	0.880	0.853	0.837	0.886		
Fluoranthene	*	1.523	1.519	1.628	1.615	1.733		
Fluorene	*	1.415	1.496	1.650	1.632	1.819		
Indeno(1,2,3-c,d)Pyrene	*	1.910	1.684	1.570	1.572	1.600		
Naphthalene	*	1.794	1.522	1.541	1.549	1.582		
Phenanthrene	*	1.010	1.015	1.172	1.142	1.306		
Pyrene	*	3.847	4.617	3.932	4.156	3.950		
2-Fluorobiphenyl	*	2.440	2.586	2.776	2.742	2.902		
Nitrobenzene-d5	*	0.517	0.498	0.523	0.532	0.597		
p-Terphenyl-d14	*	1.345	1.547	1.424	1.461	1.412		

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of 0.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. : N/A

Instrument ID: HP-MSB Calibration Date(s): 03/11/05 03/11/05

Calibration Times: 12:15 12:47

LAB FILE I RRF160 = 1B031105\B47869 RRF7 = _____

COMPOUND		RRF160	RRF7	$\overline{RRF}$	% RSD
1-Methylnaphthalene	*	0.767		0.810	6.61
2-Methylnaphthalene	*	0.583		0.533	7.97
Acenaphthene	*	1.794		1.744	3.07
Acenaphthylene	*	2.834		2.598	7.89
Anthracene	*	1.465		1.375	6.22
Benzo(a)anthracene	*	1.522		1.300	14.90
Benzo(a)pyrene	*	1.760		1.608	8.42
Benzo(b)fluoranthene	*	1.877		1.457	22.71
Benzo(g,h,i)perylene	*	1.468		1.762	16.93
Benzo(k)fluoranthene	*	2.401		2.388	6.20
Chrysene	*	1.981		2.008	2.56
Dibenz(a,h)Anthracene	*	0.807		0.866	5.04
Fluoranthene	*	1.684		1.617	5.27
Fluorene	*	1.814		1.638	9.98
Indeno(1,2,3-c,d)Pyrene	*	1.507		1.640	8.77
Naphthalene	*	1.562		1.592	6.36
Phenanthrene	*	1.327		1.162	11.75
Pyrene	*	4.264		4.128	6.92
2-Fluorobiphenyl	*	2.930		2.729	6.88
Nitrobenzene-d5	*	0.607		0.546	8.28
p-Terphenyl-d14	*	1.544		1.456	5.43

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. _____

Instrument ID: HP-MSB Calibration Date: 03/11/05 Time: 15:54

Lab File ID 1B031105\B47871.D Init. Calib. Date(s): 03/11/05 03/11/05

EPA Sample No. : SSTD050B56 Init.Calib. Times: 12:15 14:20

GC Column: 1 ID: 1 (mm)

COMPOUND		$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1-Methylnaphthalene	*	0.810	0.807	0.000	-0.46	0.0
2-Methylnaphthalene	*	0.533	0.503	0.000	-5.64	0.0
Acenaphthene	*	1.744	1.750	0.000	0.36	0.0
Acenaphthylene	*	2.598	2.560	0.000	-1.47	0.0
Anthracene	*	1.375	1.315	0.000	-4.31	0.0
Benzo(a)anthracene	*	1.300	1.276	0.000	-1.89	0.0
Benzo(a)pyrene	*	1.608	1.740	0.000	8.22	0.0
Benzo(b)fluoranthene	*	1.457	1.493	0.000	2.46	0.0
Benzo(g,h,i)perylene	*	1.762	1.745	0.000	-0.99	0.0
Benzo(k)fluoranthene	*	2.387	2.643	0.000	10.70	0.0
Chrysene	*	2.008	2.039	0.000	1.54	0.0
Dibenz(a,h)Anthracene	*	0.866	0.855	0.000	-1.30	0.0
Fluoranthene	*	1.617	1.609	0.000	-0.47	0.0
Fluorene	*	1.638	1.612	0.000	-1.56	0.0
Indeno(1,2,3-c,d)Pyrene	*	1.640	1.677	0.000	2.25	0.0
Naphthalene	*	1.592	1.550	0.000	-2.62	0.0
Phenanthrene	*	1.162	1.111	0.000	-4.43	0.0
Pyrene	*	4.128	4.068	0.000	-1.44	0.0
2-Fluorobiphenyl	*	2.729	2.694	0.00	-1.28	0.0
Nitrobenzene-d5	*	0.546	0.533	0.00	-2.35	0.0
p-Terphenyl-d14	*	1.456	1.400	0.00	-3.80	0.0

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of 0.0

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. _____

Instrument ID: HP-MSB Calibration Date: 03/15/05 Time: 14:48

Lab File ID 1B031505\B47886.D Init. Calib. Date(s): 03/11/05 03/11/05

EPA Sample No. : SSTD050B57 Init.Calib. Times: 12:15 14:20

GC Column: 1 ID: 1 (mm)

COMPOUND		$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1-Methylnaphthalene	*	0.810	0.793	0.000	-2.12	0.0
2-Methylnaphthalene	*	0.533	0.516	0.000	-3.04	0.0
Acenaphthene	*	1.744	1.697	0.000	-2.70	0.0
Acenaphthylene	*	2.598	2.510	0.000	-3.41	0.0
Anthracene	*	1.375	1.408	0.000	2.46	0.0
Benzo(a)anthracene	*	1.300	1.318	0.000	1.33	0.0
Benzo(a)pyrene	*	1.608	1.859	0.000	15.65	0.0
Benzo(b)fluoranthene	*	1.457	1.693	0.000	16.23	0.0
Benzo(g,h,i)perylene	*	1.762	1.654	0.000	-6.11	0.0
Benzo(k)fluoranthene	*	2.387	2.488	0.000	4.19	0.0
Chrysene	*	2.008	2.115	0.000	5.32	0.0
Dibenz(a,h)Anthracene	*	0.866	0.901	0.000	4.09	0.0
Fluoranthene	*	1.617	1.580	0.000	-2.28	0.0
Fluorene	*	1.638	1.632	0.000	-0.37	0.0
Indeno(1,2,3-c,d)Pyrene	*	1.640	1.605	0.000	-2.16	0.0
Naphthalene	*	1.592	1.497	0.000	-5.93	0.0
Phenanthrene	*	1.162	1.098	0.000	-5.52	0.0
Pyrene	*	4.128	3.772	0.000	-8.62	0.0
2-Fluorobiphenyl	*	2.729	2.610	0.00	-4.36	0.0
Nitrobenzene-d5	*	0.546	0.455	0.00	-16.57	0.0
p-Terphenyl-d14	*	1.456	1.374	0.00	-5.63	0.0

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of 0.0

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. N/A

Instrument ID: HP-MSB Date Analyzed: 03/11/05

Lab File ID: 1B031105\B47866 Time Analyzed : 13:18

EPA Sample No. SSTD050B55 GC Column: 1 ID: 1 (mm)

		IS1 (DCB) AREA	RT #	IS2 (NPT) AREA	RT #	IS3 (ANT) AREA	RT #
	12 HOUR STD	9764	5.79	20890	7.76	8288	10.72
	UPPER LIMIT	19528	6.29	41780	8.26	16576	11.22
	LOWER LIMIT	4882	5.29	10445	7.26	4144	10.22
	EPA SAMPLE						
1	25364 BLK	7484	5.80	15666	7.76	6091	10.72
2	25364 BKS	8570	5.79	18641	7.75	7328	10.72
3	BRN-1120-MW27-6	8896	5.79	18059	7.75	7024	10.72
4	BRN-1120-MW27-6 MS	7941	5.79	16465	7.75	6401	10.72
5	BRN-1120-MW27-6 MSD	8375	5.79	17543	7.75	6788	10.72
6	BRN-1120-MW18-6	8343	5.78	17466	7.75	6653	10.71
7	BRN-1120-MW24-6	7650	5.78	17882	7.74	10418	10.72
8	BRN-1120-MW16R-6	8212	5.78	18342	7.75	7688	10.72
9	BRN-1120-MW28-6	8005	5.79	16983	7.75	6606	10.72

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of the QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. N/A

Instrument ID: HP-MSB Date Analyzed: 03/11/05

Lab File ID: 1B031105\B47866 Time Analyzed : 13:18

EPA Sample No. : SSTD050B55 GC Column: 1 ID: 1 (mm)

		IS4 (PHN) AREA	RT #	IS5 (CRY) AREA	RT #	IS6 (PRY) AREA	RT #
	12 HOUR STD	8747	13.25	4158	17.82	2352	20.12
	UPPER LIMIT	17494	13.75	8316	18.32	4704	20.62
	LOWER LIMIT	4374	12.75	2079	17.32	1176	19.62
	EPA SAMPLE						
1	25364 BLK	5436	13.26	2762	17.83	1509	20.13
2	25364 BKS	7384	13.24	3931	17.82	2158	20.12
3	BRN-1120-MW27-6	7253	13.24	2964	17.83	1491	20.12
4	BRN-1120-MW27-6 MS	6727	13.24	3216	17.81	1618	20.12
5	BRN-1120-MW27-6 MSD	7207	13.24	3555	17.81	1818	20.12
6	BRN-1120-MW18-6	6642	13.24	2817	17.82	1356	20.12
7	BRN-1120-MW24-6	8100	13.23	3968	17.81	1986	20.11
8	BRN-1120-MW16R-6	7313	13.24	3036	17.82	1690	20.12
9	BRN-1120-MW28-6	6807	13.24	2704	17.83	1402	20.12

IS4 (PHN) = phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of the QC limits

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. N/A

Instrument ID: HP-MSB Date Analyzed: 03/15/05

Lab File ID: 1B031505\B47886 Time Analyzed : 14:48

EPA Sample No. SSTD050B57 GC Column: 1 ID: 1 (mm)

		IS1 (DCB) AREA	RT #	IS2 (NPT) AREA	RT #	IS3 (ANT) AREA	RT #
	12 HOUR STD	8289	5.77	18386	7.73	7413	10.70
	UPPER LIMIT	16578	6.27	36772	8.23	14826	11.20
	LOWER LIMIT	4145	5.27	9193	7.23	3707	10.20
	EPA SAMPLE						
1	BRN-1120-MW7-6	11314	5.77	24403	7.73	9560	10.70
2	BRN-1120-MW32-6	10397	5.77	21987	7.73	8754	10.70
3	BRN-1120-MW24-6 DIL1	7727	5.78	19299	7.73	8248	10.70
4	BRN-1120-MW24-6 DIL2	6941	5.78	17408	7.74	7579	10.70
5	BRN-1120-MW16R-6 DIL	7786	5.77	17742	7.73	7216	10.70

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of the QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : ACCURA ANALYTICAL LAB Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. N/A

Instrument ID: HP-MSB Date Analyzed: 03/15/05

Lab File ID: 1B031505\B47886 Time Analyzed : 14:48

EPA Sample No. : SSTD050B57 GC Column: 1 ID: 1 (mm)

		IS4 (PHN) AREA	RT #	IS5 (CRY) AREA	RT #	IS6 (PRY) AREA	RT #
	12 HOUR STD	7875	13.23	3802	17.80	2219	20.10
	UPPER LIMIT	15750	13.73	7604	18.30	4438	20.60
	LOWER LIMIT	3938	12.73	1901	17.30	1110	19.60
	EPA SAMPLE						
1	BRN-1120-MW7-6	9675	13.22	3850	17.80	1871	20.10
2	BRN-1120-MW32-6	8339	13.23	3651	17.81	1941	20.10
3	BRN-1120-MW24-6 DIL1	8013	13.22	3328	17.81	1779	20.11
4	BRN-1120-MW24-6 DIL2	6538	13.23	2433	17.82	1379	20.12
5	BRN-1120-MW16R-6 DIL	6025	13.24	2062	17.82	1155	20.12

IS4 (PHN) = phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of the QC limits

Certificate of Analytical Results 7765

Tetra Tech NUS -Tallahassee, Tallahassee, FL

NAS Pensacola / OLF Bronson / CTO 302

Sample Id: **BRN-1120-MW27-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **7765-001** Date Collected: **Mar-03-05 15:30** Date Received: **Mar-05-05 10:00**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 16:03 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	4.8	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 21:00 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	BRL	2.00	0.810	mg/L	U	1

Sample Id: **BRN-1120-MW18-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **7765-002** Date Collected: **Mar-03-05 15:00** Date Received: **Mar-05-05 10:00**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 16:20 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	8.7	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 21:15 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	BRL	2.00	0.810	mg/L	U	1

*

Certificate of Analytical Results 7765

Tetra Tech NUS -Tallahassee, Tallahassee, FL

NAS Pensacola / OLF Bronson / CTO 302

Sample Id: **BRN-1120-MW24-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **7765-003** Date Collected: **Mar-03-05 12:00** Date Received: **Mar-05-05 10:00**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 16:37 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	7.4	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 21:30 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	BRL	2.00	0.810	mg/L	U	1

Sample Id: **BRN-1120-MW16R-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **7765-004** Date Collected: **Mar-03-05 11:00** Date Received: **Mar-05-05 10:00**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 16:55 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	3.5	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 21:45 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	BRL	2.00	0.810	mg/L	U	1

*

Certificate of Analytical Results 7765

Tetra Tech NUS -Tallahassee, Tallahassee, FL

NAS Pensacola / OLF Bronson / CTO 302

Sample Id: **BRN-1120-MW7-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **7765-005** Date Collected: **Mar-03-05 10:05** Date Received: **Mar-05-05 10:00**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 17:47 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	6.5	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 22:00 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	BRL	2.00	0.810	mg/L	U	1

Sample Id: **BRN-1120-MW28-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **7765-006** Date Collected: **Mar-03-05 16:15** Date Received: **Mar-05-05 10:00**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 18:04 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	8.2	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 22:45 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	BRL	2.00	0.810	mg/L	U	1

*

Certificate of Analytical Results 7765

Tetra Tech NUS -Tallahassee, Tallahassee, FL

NAS Pensacola / OLF Bronson / CTO 302

Sample Id: **BRN-1120-MW32-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **7765-007** Date Collected: **Mar-03-05 17:15** Date Received: **Mar-05-05 10:00**
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 18:22 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	7.7	0.10	0.062	mg/L		1

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 23:00 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	BRL	2.00	0.810	mg/L	U	1

Sample Id: Matrix: **WATER** % Moisture:
Lab Sample Id: **25818 BLK** Date Collected: Date Received:
Sample Depth:

Analytical Method: Total Organic Carbon by SW9060 Prep Method:

Date Analyzed: Mar-11-05 16:45 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25818

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Total Organic Carbon	7440-44-0	BRL	2.00	0.810	mg/L	U	1

Sample Id: Matrix: **WATER** % Moisture:
Lab Sample Id: **25825 BLK** Date Collected: Date Received:
Sample Depth:

Analytical Method: Sulfate by SW9056 Prep Method:

Date Analyzed: Mar-11-05 10:49 Analyst: LJB01 Date Prep: Tech: LJB01
Seq Number: 25825

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	BRL	0.10	0.062	mg/L	U	1

*

Version: 1.003

Blank Spike Recovery

Project Name: NAS Pensacola / OLF Bronson / CTO 302

Report Date: 04/06/05 16:04

Work Order #: 7765 **Project ID:** N5967

Lab Batch #: 25825 **Sample:** 25825 BKS **Matrix:** W

Reporting Units: mg/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by SW9056 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Sulfate	<0.062	10	10	100	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

BS / BSD Recoveries

Project Name: NAS Pensacola / OLF Bronson / CTO 302

Work Order #: 7765

Report Date 04/06/05 16:04

Project ID: N5967

Lab Batch ID: 25818 **Sample:** 25818 BKS **Batch #:** 1 **Matrix:** W

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Total Organic Carbon by SW9060 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Total Organic Carbon	<0.810	50.0	47.3	95	50.0	48.1	96	1	80-120	30	

Relative Percent Difference RPD = 200*|(D-G)/(D+G)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

F = RPD exceeded the laboratory control limits

Version: 1.%

Form 3 - MS / MSD Recoveries

Project Name: NAS Pensacola / OLF Bronson / CTO 302

Report Date: 04/06/05 16:04

Work Order # : 7765

Project ID: N5967

Lab Batch ID: 25825 **QC- Sample ID:** 7738-002 MS **Batch #:** 1 **Matrix:** W

Reporting Units: mg/L

Anions by SW9056 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Sulfate	8.8	10	21	122	10	21	122	0	70-130	20	

Lab Batch ID: 25818 **QC- Sample ID:** 7738-001 MS **Batch #:** 1 **Matrix:** W

Reporting Units: mg/L

Total Organic Carbon by SW9060 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Total Organic Carbon	2.37	50.0	47.6	90	50.0	49.4	94	4	50-150	30	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

F = RPD exceeded the laboratory control limits

Sample Duplicate Recovery

Project Name: NAS Pensacola / OLF Bronson / CTO 302

Work Order #: 7765 **Report Date:** 04/06/05 16:04

Lab Batch #: 25825 **Project ID:** N5967

QC- Sample ID: 7738-002 MD **Batch #:** 1 **Matrix:** W

Reporting Units: mg/L

Anions by SW9056 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Sulfate	8.8	9.4	7	20	

Lab Batch #: 25825

QC- Sample ID: 7739-002 MD **Batch #:** 1 **Matrix:** W

Reporting Units: mg/L

Anions by SW9056 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Sulfate	25	25	0	20	

Lab Batch #: 25818

QC- Sample ID: 7738-001 MD **Batch #:** 1 **Matrix:** W

Reporting Units: mg/L

Total Organic Carbon by SW9060 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total Organic Carbon	2.37	2.36	0	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
F = RPD exceeded the laboratory control limits

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW27-6

Lab Name	ACCURA ANALYTICAL LA	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7765	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7765-001
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030705\A12642
Level (low/med):	LOW	Date Received:	03/05/05
% Moisture: not dec.		Date Analyzed:	03/07/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	1.0	U
1330-20-7	Xylenes, Total	3.0	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW18-6

Lab Name	ACCURA ANALYTICAL LA	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7765	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7765-002
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030705\A12645
Level (low/med):	LOW	Date Received:	03/05/05
% Moisture: not dec.		Date Analyzed:	03/07/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	0.64	I
1330-20-7	Xylenes, Total	3.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW24-6

Lab Name	ACCURA ANALYTICAL LA	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7765	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7765-003
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030705\A12646
Level (low/med):	LOW	Date Received:	03/05/05
% Moisture: not dec.		Date Analyzed:	03/07/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	0.37	I
1330-20-7	Xylenes, Total	3.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW16R-6

Lab Name	ACCURA ANALYTICAL LA	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7765	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7765-004
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030705\A12647
Level (low/med):	LOW	Date Received:	03/05/05
% Moisture: not dec.		Date Analyzed:	03/07/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	0.34	I
1330-20-7	Xylenes, Total	3.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW7-6

Lab Name	ACCURA ANALYTICAL LA	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7765	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7765-005
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030705\A12648
Level (low/med):	LOW	Date Received:	03/05/05
% Moisture: not dec.		Date Analyzed:	03/07/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	0.43	I
1330-20-7	Xylenes, Total	3.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW28-6

Lab Name	ACCURA ANALYTICAL LA	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7765	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7765-006
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030705\A12649
Level (low/med):	LOW	Date Received:	03/05/05
% Moisture: not dec.		Date Analyzed:	03/07/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	0.30	I
1330-20-7	Xylenes, Total	3.0	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-TT20-MW32-6

Lab Name	ACCURA ANALYTICAL LA	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7765	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7765-007
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030705\A12650
Level (low/med):	LOW	Date Received:	03/05/05
% Moisture: not dec.		Date Analyzed:	03/07/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	0.30	I
1330-20-7	Xylenes, Total	3.0	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank

Lab Name	ACCURA ANALYTICAL LA	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7765	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7765-008
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030705\A12651
Level (low/med):	LOW	Date Received:	03/05/05
% Moisture: not dec.		Date Analyzed:	03/07/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	1.0	U
1330-20-7	Xylenes, Total	3.0	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

25377 BLK

Lab Name	ACCURA ANALYTICAL LA	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7765	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	25377 BLK
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030705\A12632
Level (low/med):	LOW	Date Received:	
% Moisture: not dec	0	Date Analyzed:	03/07/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
108-88-3	Toluene	1.0	U
1330-20-7	Xylenes, Total	3.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

25377 BKS

Lab Name	ACCURA ANALYTICAL LA	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7765	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	25377 BKS
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030705\A12633
Level (low/med):	LOW	Date Received:	
% Moisture: not dec	0	Date Analyzed:	03/07/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	43	
100-41-4	Ethylbenzene	46	
1634-04-4	Methyl tert-butyl ether	44	
108-88-3	Toluene	45	
1330-20-7	Xylenes, Total	140	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW27-6 MS

Lab Name	ACCURA ANALYTICAL LA	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7765	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7765-001 MS
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030705\A12643
Level (low/med):	LOW	Date Received:	03/05/05
% Moisture: not dec.		Date Analyzed:	03/07/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	43	
100-41-4	Ethylbenzene	48	
1634-04-4	Methyl tert-butyl ether	43	
108-88-3	Toluene	47	
1330-20-7	Xylenes, Total	140	

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW27-6 MSD

Lab Name	ACCURA ANALYTICAL LA	Contract	N5967
Lab Code	ACCURA	SAS NO. :	
Case No. :	7765	SDG NO.	
Matrix (soil/water)	WATER	Lab Sample Id:	7765-001 MSD
Sample wt/vol	5.00 (g/mL) ML	Lab File ID:	A030705\A12644
Level (low/med):	LOW	Date Received:	03/05/05
% Moisture: not dec.		Date Analyzed:	03/07/05
GC Column	ID: .32 (mm)	Dilution Factor:	1.0
Soil Extract Volum	(µ L)	Soil Aliquot Volume:	(µ L)

CONCENTRATION UNIT (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
71-43-2	Benzene	44	
100-41-4	Ethylbenzene	46	
1634-04-4	Methyl tert-butyl ether	44	
108-88-3	Toluene	45	
1330-20-7	Xylenes, Total	140	

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ACCURA ANALYTICAL LA Contract: N5967

Lab Code ACCURA Case No. 7765 SAS No. :

SDG No. : N/A

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (BFB) #	SMC3 (TOL) #	OTHER	TOT OUT
1	25377 BLK	102	91	101		0
2	25377 BKS	93	86	94		0
3	BRN-1120-MW27-6	103	90	99		0
4	BRN-1120-MW27-6 MS	95	86	98		0
5	BRN-1120-MW27-6 MSD	96	89	96		0
6	BRN-1120-MW18-6	99	89	98		0
7	BRN-1120-MW24-6	100	90	99		0
8	BRN-1120-MW16R-6	103	89	98		0
9	BRN-1120-MW7-6	104	92	100		0
10	BRN-1120-MW28-6	104	90	98		0
11	BRN-1120-MW32-6	102	89	98		0
12	Trip Blank	107	93	99		0

		QC LIMITS
SMC1	(DCE) = 1,2-Dichloroethane-d4	(63 - 128)
SMC2	(BFB) = 4-Bromofluorobenzene	(77 - 117)
SMC3	(TOL) = Toluene-d8	(84 - 115)
Other		(-)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY

Lab Name: **ACCURA ANALYTICAL LA** Contract : **N5967**

Lab Code : **ACCURA** Case No. : **7765** SAS No. : _____ SDG No. : **N/A**

Blank Spike - EPA Sample No. **25377 BKS**

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BKS CONCENTRATION (ug/L)	BKS % REC #	QC LIMITS REC.
Benzene	50	0	43	86	71-125
Ethylbenzene	50	0	46	92	85-117
Methyl tert-butyl ether	50	0	44	88	74-122
Toluene	50	0	45	90	79-119
Xylenes, Total	150	0	140	93	79-119

Column to be used to flag recovery and RPD values with and asterisk

* Values outside of QC limits

RPD 0 out of 5 outside limit

Spike Recovery 0 out of 10 outside limit

Comments : _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: **ACCURA ANALYTICAL LA** Contract : **N5967**

Lab Code : **ACCURA** CASE No. : **7765** SAS No. : _____

Matrix Spike - EPA Sample No **BRN-1120-MW27-6** SDG No. : **N/A**

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC LIMITS REC.
Benzene	50	0	43	86	65-131
Ethylbenzene	50	0	48	96	84-118
Methyl tert-butyl ether	50	0	43	86	67-126
Toluene	50	0	47	94	81-119
Xylenes, Total	150	0	140	93	74-125

COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
Benzene	50	44	88	2	25	65-131
Ethylbenzene	50	46	92	4	25	84-118
Methyl tert-butyl ether	50	44	88	2	25	67-126
Toluene	50	45	90	4	25	81-119
Xylenes, Total	150	140	93	0	25	74-125

Column to be used to flag recovery and RPD Values with and asterisk.

* Values outside of QC limits

RPD 0 Out of 5 Outside Limit

Spike Recovery : 0 Out of 10 Outside limit

Comments : _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

25377 BLK

Lab Name : **ACCURA ANALYTICAL LA** Contract : N5967

Lab Code : **ACCURA** Case No. : 7765 SAS No. :

Lab File ID :**A030705\A12632** SDG No. : N/A

Date Analyzed **03/07/05** Lab Sample ID : **A030705\A12632**

GC Column : ID : 0 (mm) Time Analyzed : **11:44**

Instrument ID : **HP-MSA** Heated Purge (Y/N) :

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

EPA SAMPLE NO..	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1 25377 BKS	25377 BKS	A030705\A12633	12:19
2 BRN-1120-MW27-6	7765-001	A030705\A12642	16:41
3 BRN-1120-MW27-6 MS	7765-001 MS	A030705\A12643	17:09
4 BRN-1120-MW27-6 MSD	7765-001 MSD	A030705\A12644	17:37
5 BRN-1120-MW18-6	7765-002	A030705\A12645	18:04
6 BRN-1120-MW24-6	7765-003	A030705\A12646	18:32
7 BRN-1120-MW16R-6	7765-004	A030705\A12647	19:00
8 BRN-1120-MW7-6	7765-005	A030705\A12648	19:28
9 BRN-1120-MW28-6	7765-006	A030705\A12649	19:55
10 BRN-1120-MW32-6	7765-007	A030705\A12650	20:23
11 Trip Blank	7765-008	A030705\A12651	20:51

Comments

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : **ACCURA ANALYTICAL LA** Contract : N5967

Lab Code : **ACCURA** Case No. : **7765** SAS No. :

Lab File ID : SDG No. : **N/A**

Instrument ID : **HP-MSA** BFB Injection Date : **01/04/05**

GC Column : ID : (mm) BFB Injection Time : **10:40**

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0%of mass 95	52.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	85.9
175	5.0 - 9.0% of mass 174	7.4 (8.6)1
176	95.0 - 101.0% of mass 174	83.1 (96.7)1
177	5.0 - 9.0% of mass 176	5.3 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS :

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD005A01	VSTD005A01	A010405\A11939	01/04/05	11:30
2	VSTD010A01	VSTD010A01	A010405\A11940	01/04/05	11:58
3	VSTD020A01	VSTD020A01	A010405\A11941	01/04/05	12:25
4	VSTD050A01	VSTD050A01	A010405\A11942	01/04/05	12:52
5	VSTD100A01	VSTD100A01	A010405\A11943	01/04/05	13:19
6	VSTD200A01	VSTD200A01	A010405\A11944	01/04/05	13:47
7	VSTD001A01	VSTD001A01	A010405\A11946	01/04/05	15:14
8	VSTD050A01	VSTD050A01	A010405\A11947	01/04/05	15:50

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : **ACCURA ANALYTICAL LA** Contract : N5967

Lab Code : **ACCURA** Case No. : **7765** SAS No. :

Lab File ID : **A030705\A12629.** SDG No. : **N/A**

Instrument ID : **HP-MSA** BFB Injection Date : **03/07/05**

GC Column : ID : (mm) BFB Injection Time : **10:15**

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0%of mass 95	52.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	86.4
175	5.0 - 9.0% of mass 174	5.2 (6.1)1
176	95.0 - 101.0% of mass 174	85.4 (98.9)1
177	5.0 - 9.0% of mass 176	6.1 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS :

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050A37	VSTD050A37	A030705\A12630	03/07/05	10:39
2	25377 BLK	25377 BLK	A030705\A12632	03/07/05	11:44
3	25377 BKS	25377 BKS	A030705\A12633	03/07/05	12:19
4	BRN-1120-MW27-6	7765-001	A030705\A12642	03/07/05	16:41
5	BRN-1120-MW27-6 MS	7765-001 MS	A030705\A12643	03/07/05	17:09
6	BRN-1120-MW27-6 MSD	7765-001 MSD	A030705\A12644	03/07/05	17:37
7	BRN-1120-MW18-6	7765-002	A030705\A12645	03/07/05	18:04
8	BRN-1120-MW24-6	7765-003	A030705\A12646	03/07/05	18:32
9	BRN-1120-MW16R-6	7765-004	A030705\A12647	03/07/05	19:00
10	BRN-1120-MW7-6	7765-005	A030705\A12648	03/07/05	19:28
11	BRN-1120-MW28-6	7765-006	A030705\A12649	03/07/05	19:55
12	BRN-1120-MW32-6	7765-007	A030705\A12650	03/07/05	20:23
13	Trip Blank	7765-008	A030705\A12651	03/07/05	20:51

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name : ACCURA ANALYTICAL LA Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____

Instrument ID: HP-MSA SDG No. N/A

GC Column _____ ID: _____ (mm Calibration Date(s): 01/04/05 01/04/05

Heated Purge (Y/N) : N Calibration Times: 11:30 15:14

LAB FILE ID: RRF1 = A010405\A11946 RRF5 = A010405\A11939

RRF10 = A010405\A11940 RRF20 = A010405\A11941 RRF50 = A010405\A11942

COMPOUND		RRF1	RRF5	RRF10	RRF20	RRF50	RRF	% RSD
Benzene	*	2.080	2.019	2.115	2.091	1.898		
Ethylbenzene	*	2.112	1.878	1.984	1.997	1.799		
Methyl tert-butyl ether	*	1.410	1.459	1.544	1.558	1.434		
Toluene	*	1.760	1.617	1.670	1.694	1.545		
Xylenes, Total	*	0.725	0.659	0.696	0.690	0.631		
1,2-Dichloroethane-d4	*		0.772	0.820	0.763	0.722		
Bromofluorobenzene	*		1.025	1.069	1.208	1.001		
Toluene-d8	*		1.284	1.348	1.326	1.310		

Compounds with required minimum RRF

* Compounds with maximum %RSD Values

All other compounds must meet a minimum RRF of 0.010.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name : ACCURA ANALYTICAL LA Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. N/A

Instrument ID: HP-MSA Calibration Date(s): 01/04/05 01/04/05

GC Column DB ID: _____ (mm Calibration Times: 11:30 15:14

Heated Purge (Y/N) : N

LAB FILE I RRF100 = A010405\A11943 RRF200 = A010405\A11944

COMPOUND		RRF100	RRF200	RRF	% RSD	
Benzene	*	1.850	1.741	1.971	7.24	
Ethylbenzene	*	1.726	1.591	1.870	9.54	
Methyl tert-butyl ether	*	1.407	1.371	1.455	4.90	
Toluene	*	1.496	1.378	1.594	8.20	
Xylenes, Total	*	0.601	0.555	0.651	9.17	
1,2-Dichloroethane-d4	*	0.678	0.647	0.734	8.76	
Bromofluorobenzene	*	1.134	0.902	1.056	10.11	*
Toluene-d8	*	1.250	1.174	1.282	4.91	

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LA Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____

Instrument ID HP-MSA SDG No. : _____

Lab File I A010405\A11947.D Calibration Date: 01/04/05 Time: 15:50

EPA Sample No. VSTD050A01 Init. Calib. Date(s): 01/04/05 01/04/05

Heated Purge (Y/N) : _____ Init.Calib. Times 11:30 15:14

GC Colum _____ ID: _____ (mm

COMPOUND		RRF	RRF50	MIN RRF	%D	MAX %D
Benzene	*	1.971	1.782	0.100	-9.58	20.0
Ethylbenzene	*	1.870	1.696	0.100	-9.31	20.0
Methyl tert-butyl ether	*	1.455	1.360	0.100	-6.53	20.0
Toluene	*	1.594	1.442	0.100	-9.54	20.0
Xylenes, Total	*	0.651	0.595	0.100	-8.61	20.0
1,2-Dichloroethane-d4	*	0.734	0.695	0.100	-5.26	20.0
Bromofluorobenzene	*	1.056	0.954	0.100	-9.69	20.0
Toluene-d8	*	1.282	1.269	0.100	-1.01	20.0

Compounds with required minimum RRF

* Compounds with maximum %RSD valu

All other Compounds must meet a minimum RRF of 0.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LA Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. :

Instrument ID HP-MSA SDG No. :

Lab File I A030705\A12630.D Calibration Date: 03/07/05 Time: 10:39

EPA Sample No. VSTD050A37 Init. Calib. Date(s): 01/04/05 01/04/05

Heated Purge (Y/N) : Init.Calib. Times 11:30 15:14

GC Colum ID: (mm

COMPOUND		$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzene	*	1.971	1.762	0.100	-10.58	20.0
Ethylbenzene	*	1.870	1.693	0.100	-9.46	20.0
Methyl tert-butyl ether	*	1.455	1.263	0.100	-13.17	20.0
Toluene	*	1.594	1.423	0.100	-10.77	20.0
Xylenes, Total	*	0.651	0.597	0.100	-8.31	20.0
1,2-Dichloroethane-d4	*	0.734	0.658	0.100	-10.28	20.0
Bromofluorobenzene	*	1.056	0.912	0.100	-13.63	20.0
Toluene-d8	*	1.282	1.219	0.100	-4.93	20.0

Compounds with required minimum RRF
* Compounds with maximum %RSD valu

All other Compounds must meet a minimum RRF of 0.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : ACCURA ANALYTICAL LA Contract N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____

Instrument ID HP-MSA SDG No. N/A

Lab File ID: A030705\A12630 Date Analyzed: 03/07/05

EPA Sample No. VSTD050A37 Time Analyzed : 10:39

GC Column _____ ID: _____ (mm Heated Purge (Y/N) _____

		IS1 (PFB) AREA	RT #	IS2 (CBZ) AREA	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	491710	5.12	671955	8.64	394796	11.12
	UPPER LIMIT	983420	5.62	1343910	9.14	789592	11.62
	LOWER LIMIT	245855	4.62	335978	8.14	197398	10.62
	EPA SAMPLE						
1	25377 BLK	428474	5.13	585382	8.64	343523	11.12
2	25377 BKS	443881	5.13	593757	8.65	348624	11.13
3	BRN-1120-MW27-6	364328	5.14	505358	8.65	298570	11.14
4	BRN-1120-MW27-6 MS	381252	5.14	491548	8.65	298371	11.14
5	BRN-1120-MW27-6 MSD	378179	5.14	509899	8.65	300048	11.14
6	BRN-1120-MW18-6	367265	5.14	502616	8.65	298676	11.14
7	BRN-1120-MW24-6	364792	5.14	495369	8.65	293218	11.14
8	BRN-1120-MW16R-6	366512	5.14	511463	8.66	301201	11.14
9	BRN-1120-MW7-6	374595	5.14	503874	8.66	292782	11.14
10	BRN-1120-MW28-6	370097	5.15	493497	8.66	290355	11.14
11	BRN-1120-MW32-6	379147	5.14	507682	8.66	290437	11.14
12	Trip Blank	360651	5.15	485824	8.66	272605	11.15

IS1 (PFB) = Pentafluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of the QC limits

1D

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW27-6

Lab Name : ACCURA ANALYTICAL LAB. Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-001

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 031205\O10639

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/08/05

Concentrated Extract Volume: 2000 (μ L) Date Analyzed: 03/14/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	1.7	U

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW18-6

Lab Name : ACCURA ANALYTICAL LAB. Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-002

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 031205\O10640

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/08/05

Concentrated Extract Volume: 2000 (µ L) Date Analyzed: 03/14/05

Injection Volume: 2.0 (µ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	1.7	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW24-6

Lab Name : ACCURA ANALYTICAL LAB. Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-003

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 031205\O10641

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/08/05

Concentrated Extract Volume: 2000 (μ L) Date Analyzed: 03/14/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	1.2	I

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW16R-6

Lab Name : ACCURA ANALYTICAL LAB. Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-004

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 031205\O10642

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/08/05

Concentrated Extract Volume: 2000 (μ L) Date Analyzed: 03/14/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	1.7	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW7-6

Lab Name : ACCURA ANALYTICAL LAB. Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-005

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 031205\O10643

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/08/05

Concentrated Extract Volume: 2000 (μ L) Date Analyzed: 03/14/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	1.7	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW28-6

Lab Name : ACCURA ANALYTICAL LAB. Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-006

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 031205\O10644

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/08/05

Concentrated Extract Volume: 2000 (μ L) Date Analyzed: 03/14/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	1.7	U

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW32-6

Lab Name : ACCURA ANALYTICAL LAB. Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-007

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 031205\O10647

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/08/05

Concentrated Extract Volume: 2000 (μ L) Date Analyzed: 03/14/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	1.7	U

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
25340 BLK

Lab Name : ACCURA ANALYTICAL LAB. Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 25340 BLK

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 031205\O10635

Level : (low/med) LOW Date Received: _____

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 03/08/05

Concentrated Extract Volume: 2000 (µ L) Date Analyzed: 03/13/05

Injection Volume: 2.0 (µ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	1.7	U

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

25340 BKS

Lab Name : ACCURA ANALYTICAL LAB. Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 25340 BKS

Sample wt/vol: 1000 (g/ml): ML Lab File ID: 031205\O10636

Level : (low/med) LOW Date Received: _____

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 03/08/05

Concentrated Extract Volume: 2000 (μ L) Date Analyzed: 03/13/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	4.2	

1C

SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

BRN-1120-MW27-6 MS

Lab Name : ACCURA ANALYTICAL LAB. Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-001 MS

Sample wt/vol: 500 (g/ml): ML Lab File ID: 031205\O10637

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/08/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/13/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	3.1	

1D
SEMIVOLATILE ORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.
BRN-1120-MW27-6 MSD

Lab Name : ACCURA ANALYTICAL LAB. Contract: N5967

Lab Code : ACCURA Case No.: 7765 SAS No. _____ SDG No.: N/A

Matrix : (soil/water) WATER Lab Sample Id: 7765-001 MSD

Sample wt/vol: 500 (g/ml): ML Lab File ID: 031205\O10638

Level : (low/med) LOW Date Received: 03/05/05

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 03/08/05

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 03/14/05

Injection Volume: 2.0 (μ L) Dilution Factor: 1.0

GPC Cleanup (Y/N): N pH: N/A Extraction : (Type) SW3520C

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
	Petroleum Range Organics	3.5	

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ACCURA ANALYTICAL LAB. Contract: N5967

Lab Code: ACCURA Case No. : 7765 SAS NO. : _____ SDG NO. : N/A

	EPA SAMPLE NO.	S1 (C39)	S2 (OTPH)	S3 ( )	S4 ( )	S5 ( )	S6 ( )	S7 ( )	S8 ( )	TOT OUT
1	25340 BLK	77	110							0
2	25340 BKS	72	114							0
3	BRN-1120-MW27-6 MS	42	86							0
4	BRN-1120-MW27-6 MSD	66	101							0
5	BRN-1120-MW27-6	50	105							0
6	BRN-1120-MW18-6	56	91							0
7	BRN-1120-MW24-6	90	102							0
8	BRN-1120-MW16R-6	84	112							0
9	BRN-1120-MW7-6	76	112							0
10	BRN-1120-MW28-6	85	110							0
11	BRN-1120-MW32-6	58	106							0

		QC LIMITS	
S1	(C39) = C39	(-)	
S2	(OTPH) = o-Terphenyl	(10 - 144)	
S3		(-)	
S4		(-)	
S5		(-)	
S6		(-)	
S7		(-)	(advisory)
S8		(-)	(advisory)

Column to be used to flag recovery values

Z Values outside of contract required QC limits

D Surrogate diluted out

3C

WATER SEMIVOLATILE BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LAB. Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. : N/A

Blank Spike - EPA Sample No. : 25340 BKS

COMPOUND	SPIKE ADDED (mg/L)	BLANK CONCENTRATION (mg/L)	BKS CONCENTRATION (mg/L)	BKS % REC #	QC LIMITS REC.
Petroleum Range Organics	4.3	0	4.2	98	41-110

Column to be used to flag recovery and RPD values with and asterisk

* Values outside of QC limits

RPD 0 out of 1 outside limit

Spike Recovery 0 out of 2 outside limit

Comments : _____

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACCURA ANALYTICAL LAB. Contract : N5967

Lab Code : ACCURA CASE No. : 7765 SAS No. : _____ SDG No. : N/A

Matrix Spike - EPA Sample No. BRN-1120-MW27-6 MS

COMPOUND	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	MS CONCENTRATION mg/L	MS % REC #	QC LIMITS REC.
Petroleum Range Organics	4.3	0	3.1	72	41-101

COMPOUND	SPIKE ADDED mg/L	MSD CONCENTRATION mg/L	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC
Petroleum Range Organics	4.3	3.5	81	12	20	41-101

Column to be used to flag recovery and RPD Values with and asterisk.
* Values outside of QC limits

RPD 0 Out of 1 outside Limit

Spike Recovery : 0 Out of 2 outside limit

Comments : _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
25340 BLK

Lab Name : ACCURA ANALYTICAL LAB. Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : SDG No. : N/A

Lab File ID 031205\O10635.D Lab Sample ID : 25340 BLK

Instrument ID : HP-GCO Date Extracted : 03/08/05

Matrix : (soil/ water) WATER Date Analyzed : 03/13/05

Level : (low/med) LOW Time Analyzed : 22:39

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD :

	EPA SAMPLE NO..	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	25340 BKS	25340 BKS	031205\O10636.D	03/13/05
2	BRN-1120-MW27-6 MS	7765-001 MS	031205\O10637.D	03/13/05
3	BRN-1120-MW27-6 MSD	7765-001 MSD	031205\O10638.D	03/14/05
4	BRN-1120-MW27-6	7765-001	031205\O10639.D	03/14/05
5	BRN-1120-MW18-6	7765-002	031205\O10640.D	03/14/05
6	BRN-1120-MW24-6	7765-003	031205\O10641.D	03/14/05
7	BRN-1120-MW16R-6	7765-004	031205\O10642.D	03/14/05
8	BRN-1120-MW7-6	7765-005	031205\O10643.D	03/14/05
9	BRN-1120-MW28-6	7765-006	031205\O10644.D	03/14/05
10	BRN-1120-MW32-6	7765-007	031205\O10647.D	03/14/05

COMMENTS:

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name : ACCURA ANALYTICAL LAB. Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. : N/A

Instrument ID: HP-GCO Calibration Date(s): 02/28/05 02/28/05

Calibration Times: 11:50 14:39

LAB FILE ID: RRF850 = 022805\O10298 RRF170 = 022805\O10299

RRF212 = 022805\O10300 RRF425 = 022805\O10301 RRF595 = 022805\O10302

COMPOUND	RRF850	RRF170	RRF212	RRF425	RRF595	$\overline{RRF}$	% RSD
Petroleum Range Organics *	29253.609	27991.792	28724.503	29130.176	29980.013	29016.019	2.52
o-Terphenyl	40868.161	43020.047	44965.361	44204.884	47552.384	44122.168	5.58
C(39)	3418.576		4871.817	3877.203	4125.865	4073.365	14.92

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LAB. Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. _____

Instrument ID: HP-GCO Calibration Date: 03/13/05 Time: 22:00

Lab File 031205\O10634.D Init. Calib. Date(s): 02/28/05 02/28/05

EPA Sample No. : FSTD4250-05 Init.Calib. Times: 11:50 14:39

GC Column: _____ ID: _____ (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Petroleum Range Organics *	29016.018	33286.695		14.72	25.0
o-Terphenyl	44122.168	54037.970		22.47	25.0
C(39)	4073.365	4915.302		20.7	25.0

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LAB. Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. _____

Instrument ID: HP-GCO Calibration Date: 03/14/05 Time: 05:06

Lab File 031205\O10645.D Init. Calib. Date(s): 02/28/05 02/28/05

EPA Sample No. : FSTD4250-06 Init.Calib. Times: 11:50 14:39

GC Column: _____ ID: _____ (mm)

COMPOUND		$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Petroleum Range Organics	*	29016.018	33095.585		14.06	25.0
o-Terphenyl		44122.168	54903.790		24.44	25.0
C(39)		4073.365	3687.807		9.5	25.0

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name : ACCURA ANALYTICAL LAB. Contract : N5967

Lab Code : ACCURA Case No. : 7765 SAS No. : _____ SDG No. _____

Instrument ID: HP-GCO Calibration Date: 03/14/05 Time: 08:19

Lab File 031205\O10650.D Init. Calib. Date(s): 02/28/05 02/28/05

EPA Sample No. : FSTD2125-02 Init.Calib. Times: 11:50 14:39

GC Column: _____ ID: _____ (mm)

COMPOUND		$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Petroleum Range Organics	*	29016.018	30990.866		6.81	25.0
o-Terphenyl		44122.168	52492.633		18.97	25.0
C(39)		4073.365	5014.359		23.1	25.0

Compounds with required minimum RRF
* Compounds with maximum %RSD Values
All other compounds must meet a minimum RRF of

Semi-Volatiles GC/MS DATA CHECKLIST
SW-846-8270C

SIMS

W.O. # / DUE DATE 7765 / 3/21/05	METHOD: 8270C
MATRIX: Water	

INITIAL ANALYST ASSESSMENT

Are all standards within expiration dates for both stock and serial standards?	Y	N	
Are Tuning results compliant with method?	Y	N	
Are DDT breakdown and tailing factors within method limits?	Y	N	
Are all percent difference results acceptable for CCV?	Y	N	
Are all SPCC Response Factors acceptable for CCV?	Y	N	
Are all CCV Internal Standard areas within -50% to +100% of initial calibration midlevel standard?	Y	N	
Are all CCV Internal Standard retention times within 30 seconds of initial cal. midlevel standard?	Y	N	
Are all sample Internal Standard areas w/in -50% to +100% of that in the CCV?	Y	N	
Are all sample Internal Standard retention times w/in 30 seconds of that in the CCV?	Y	N	
Is blank result less than 1/2 RDL for all analytes of interest?	Y	N	
Are all surrogate and spike recoveries acceptable for the BLK/BKS/BSD/MS/MSD?	Y	N	
If all surrogate and spike recoveries were not acceptable for QC, was a Quality Notice Form completed?	Y	N	NA
Are all surrogate standard recoveries acceptable for samples?	Y	N	
Were sample analyses performed within holding times?	Y	N	
If sample analyses were not performed within holding times, was a Quality Notice Form completed?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	
Are all requested analytes below the upper calibration limit?	Y	N	
If interfering ions are present, was identification made by looking at characteristic ions only?	Y	N	NA
Were TICS required? If so, were steps in section 8.1.8 followed in AAL SOP 09-OR-8270.I?	Y	N	NA
Have the samples been reviewed, and **all** false positives deleted?	Y	N	
Are all samples and supporting data (LQCF, QC Charts, Runlog and Batchbook Copies) in the folder?	Y	N	

Analyst: CTP	
Date: 3/16/05	Time: 10:50

PEER REVIEW

Are Tuning results, DDT breakdown and tailing factors compliant with method?	Y	N
Are all CCC drift results and SPCC Response Factors acceptable for CCV?	Y	N
Are all CCV Internal Standard areas and retention times within method limits?	Y	N
Are all sample Internal Standard areas and retention times within method limits?	Y	N
Are all blank and QC results acceptable?	Y	N
Are all surrogate standard recoveries acceptable for samples?	Y	N
Are quantitations based on the latest acceptable initial calibration?	Y	N
Are all calculations correct and reported in the proper units?	Y	N
Were sample analyses performed within holding times?	Y	N
Is the run log completely filled out (including review signature/date)?	Y	N
Have all samples and supporting data been included in the folder?	Y	N
Have all LIMS entries been checked for accuracy?	Y	N
Has the W.O. been upgraded to status 50?	Y	N

Reviewer: MC	
Date: 4/6/05	Time: 14:25

	Accura Analytical Laboratory, Inc. *Environmental Analytical Services* 6017 Financial Drive Norcross, GA 30071	Laboratory Quality Communication Form Document No.: 14-QS-005.F Revision/Date : No. 00/Effective: 02/01/01 Page No.: 1 of 1

[ ] Departmental Corrective Action [X] Quality Notice [ ] Temporary Method Deviation Notice

Tracking Number: SVO0503027

Reported By. Chris Pittman Date Reported: 03.16.05

Department: SVOC WO #(s): 7765,7769 Analysis: SVOC

Discrepancy:

WATER (SIM): 25364 QC passed in every respect other than the BKS having a low surrogate recovery for NB-d5 of 44%. In house limits are 53-92.
7765-001, -004, -005, -006, and –007 had high surrogate recovery for Terphenyl-d14. However, each of these samples was non-detect for all target analytes associated with this surrogate.

Resolution Assigned to (circle one): Larry Gwinn John Amirtham David Fuller Brian Burns Shaker Reddy

Resolution:

Note on Case Narrative.

Resolution recorded by: _____ Date: 03/16/05

Copied to (circle one): David Fuller Anthony Gatch Michael Trinidad Shaker Reddy

QA Comments:

QA Review by: _____ Date: _____

Original to QA, copy in the QCF Book, copy in the project folder, copy to PM, QA will forward completed copy back to department to be inserted into book.

Accura Analytical Laboratory, Inc.
6017 Financial Drive, Norcross, GA 30071

SEMI-VOLATILE GC/MS RUNLOG FOR INSTRUMENT HP-MSB

Date: 3/11/05
ICAL Date: 3/11/05
ICAL Method: SIM0311.m
ACQ. Method: SIM0311.m
DFTPP Std. ID#: 505018
CCV Std. ID#: 504126
ISTD Std. ID#: 504122

DDT % Breakdown: 4.15%
Tailing (PCP/Benzidine): 1.87/0.93

MS Conditions
EMV: 2494
Tune File: DFTPP.u
Solvent Delay: 4.80 min

	CCV IS RT	CCV IS AREAS
#1	5.79	4764
#2	7.76	20890
#3	10.72	5288
#4	13.25	8747
#5	17.82	4158
#6	20.12	2352

File Name	Lab Sample ID	Client Sample ID	Matrix	DF	ALS#	Inj. Time	Comments
B 47863	STUNB48	—	N/A	N/A	1	12:03	
B 47864	SSTD010 B55	—			2	12:15	504124
B 47865	SSTD020 B55	—			3	12:47	504125
B 47866	SSTD050 B55	—			4	13:18	504126 SIM (0.1-16) Range
B 47867	SSTD080 B55	—			5	13:49	504127 GOOD
B 47868	SSTD120 B55	—			6	14:20	504128
B 47869	SSTD160 B55	—			7	14:51	504129
B 47870	SSTD050 B56	—			8	15:22	ICV 503373 NG
B 47871	SSTD050 B56	—			8	15:54	ICV 503373 GOOD
B 47872	BLANK	—			100	16:25	
B 47873	BLANK	—			100	16:56	
B 47874	25364BLK	—	W	1X	9	17:28	
B 47875	↓ BKS	—			10	17:59	
B 47876	7765-001	BRN-1120-MW27-6			11	18:31	SURR↑
B 47877	↓ MS	↓ MS			12	19:02	
B 47878	↓ MSD	↓ MSD			13	19:33	
B 47879	7765-002	BRN-1120-MW18-6			14	20:05	
B 47880	-003	-MW24-			15	20:36	CMP↑ R/R 5X + 20X see B47881+2
B 47881	-004	-MW16R-			16	21:07	SURR↑ CMP↑ R/R 2X see B47883
B 47882	-005	-MW7-			17	21:38	SURR↑ ISTD↑↓ R/R see B47884 DNI
B 47883	-006	-MW28-			18	22:10	SURR↑ CTP 3/15/05
B 47884	↓ -007	↓ -MW32-	↓	↓	19	22:41	SURR↑ ISTD↑↓ R/R see B47890 DNI
B							
B							

Analyst/Date: CTP 3/15/05 Reviewer/Date: _____ Analytical Sequence#: 25850

Logbook ID#: SVOC-163

88

Accura Analytical Laboratory, Inc.
6017 Financial Drive, Norcross, GA 30071

SEMI-VOLATILE GC/MS RUNLOG FOR INSTRUMENT HP-MSB

Date: 3/15/05
ICAL Date: 3/11/05
ICAL Method: S1M0311.m
ACQ. Method: S1M0311.m
DFTPP Std. ID#: 505018
CCV Std. ID#: 504126
ISTD Std. ID#: 504122

DDT % Breakdown: 3.06%
Tailing (PCP/Benzidine): 1.04/1.66

MS Conditions
EMV: 2494
Tune File: DFTPP.U
Solvent Delay: 4.80 min

	CCV IS RT	CCV IS AREAS
#1	5.77	8289
#2	7.23	18386
#3	10.70	7413
#4	13.23	7875
#5	17.80	3802
#6	20.10	2219

File Name	Lab Sample ID	Client Sample ID	Matrix	DF	ALS#	Inj. Time	Comments
B 47885	STUNB49	—	N/A	N/A	1	14:36	
B 47886	SSTD050B57	—	↓	↓	2	14:48	504126
B 47887	7769-001	OLFS-2406-MW46	W	1X	3	15:18	
B 47888	↓ -002	↓ -MW47			4	15:49	
B 47889	7765-005	BRN-1120-MW7-6			5	16:20	RRof B47882 SURR↑
B 47890	-007	-MW32-6		↓	6	16:52	RRof B47884 SURR↑
B 47891	-003 DIL1	-MW24-6 DIL1		5X	7	17:23	DILof B47880
B 47892	-003 DIL2	-MW24-6 DIL2		20X	8	17:54	B47880
B 47893	↓ -004 DIL	↓ -MW16R-6 DIL	↓	2X	9	18:25	↓ B47881 SURR↑
B							
B							
B							
B							
B							
B							
B							
B							
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B							
B							
B							
B							
B							
B							
B							

Analyst/Date: CTP 3/16/05
Reviewer/Date:
Analytical Sequence#: 25852

Logbook ID#: SVOC-163

ACCURA ANALYTICAL LABORATORIES

EXTRACTION LOG

ANALYSIS: DRO / PAH (Sims) / FL-PRO **DATE/TIME**: 3/9/05 1200

MATRIX: WATER **BATCH I.D. #** 25364 **ANALYST**: EMP

EXT. METHOD: 3510 / 3520 **INSTRUMENT**: GC/MS/FID

AAL I.D.	Vi (ml)	pH	SURR (ml)	SPIKE (ml)	Vf (ml)	COMMENTS
25364 BLK	1000	<2	1.0		1.0	
" BKS	"	"	"	1.0	"	
7765-001 MS	500		0.5	0.5	0.5	
" MSD	"		"	"	"	
7765-001	1000		1.0		1.0	
-002						
-003						
-004						
-005						
-006						
-007						
7769-001						
-002	"	"	"		"	

EMP 3/10/05

START TIME: 1440 **STOP TIME:** 910 **SOLVENT ID #:** EX05029

SURROGATE I.D. : PAHOSE025 **CONC. :** 1ppm **INITAL :** EMP

SURROGATE I.D. : – **CONC. :** – **INITAL :** –

SPIKE I.D. : – **CONC. :** – **INITIAL :** –

SPIKE I.D. : PAHOSE029 **CONC. :** 1ppm **INITIAL :** EMP

SPIKE WITNESS: DR **RapidVap TEMP.:** 35°C

EXTRACT STORAGE: REFRIG.# 5, BOX # : B 805 **REVIEWED BY:** CTP

RECEIVED FOR ANALYSIS BY (DATE/TIME): CTP 3/11/05 10:25

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47876.D Vial: 11
Acq On : 03/11/05 18:31 Operator: CTP/BP CTP 3/15/05
Sample : 7765-001 BRN-1120-MW27-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 12:50 2005 Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	8896	0.40 ng	0.00
2) Naphthalene-d8	7.75	136	18059	0.40 ng	0.00
7) Acenaphthene-d10	10.72	164	7024	0.40 ng	0.00
12) Phenanthrene-d10	13.24	188	7253	0.40 ng	0.00
17) Chrysene-d12	17.83	240	2964	0.40 ng	0.00
22) Perylene-d12	20.12	264	1491	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.68	82	21998	0.89 ng/ul	-0.03
Spiked Amount 1.000			Recovery	= 89.00%	
8) 2-Fluorobiphenyl	9.58	172	41405	0.86 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 86.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	16.01	244	17482	1.62 ng/ul	-0.01
Spiked Amount 1.000			Recovery	= 162.00% ↑	

Target Compounds Qvalue

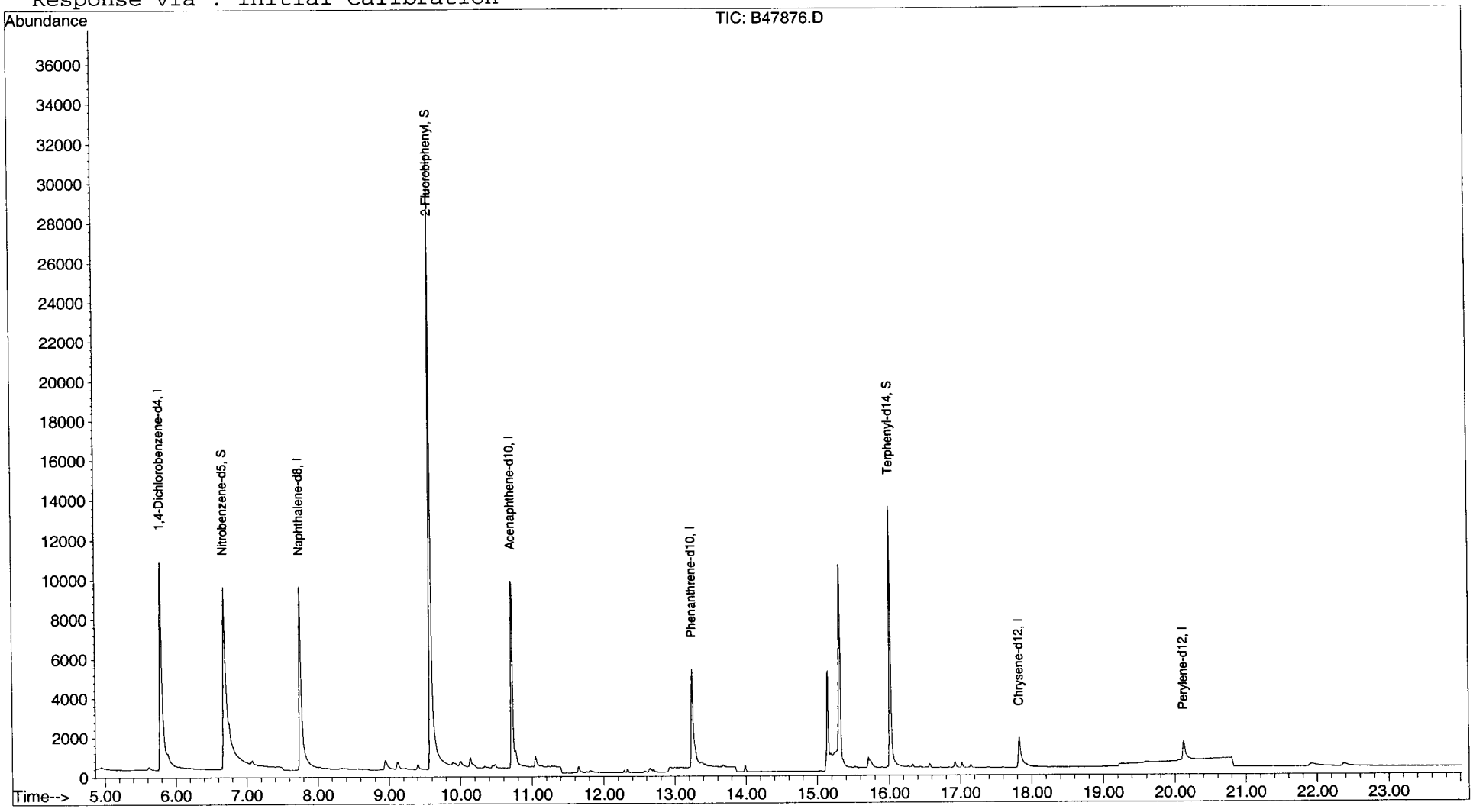
High Surrogate Recovery

(#) = qualifier out of range (m) = manual integration
B47876.D SIM0311.M Tue Mar 15 13:43:39 2005

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47876.D Vial: 11
Acq On : 03/11/05 18:31 Operator: CTP/BP
Sample : 7765-001 BRN-1120-MW27-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 12:50 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47879.D Vial: 14
Acq On : 03/11/05 20:05 Operator: CTP/BP
Sample : 7765-002 BRN-1120-MW18-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 12:52 2005 Quant Results File: SIM0311.RES

CTP 3/15/05

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.78	152	8343	0.40	ng	0.00
2) Naphthalene-d8	7.75	136	17466	0.40	ng	0.00
7) Acenaphthene-d10	10.71	164	6653	0.40	ng	0.00
12) Phenanthrene-d10	13.24	188	6642	0.40	ng	0.00
17) Chrysene-d12	17.82	240	2817	0.40	ng	0.00
22) Perylene-d12	20.12	264	1356	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.68	82	18250	0.77	ng/ul	-0.03
Spiked Amount 1.000			Recovery	=	77.00%	
8) 2-Fluorobiphenyl	9.58	172	34643	0.76	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	76.00%	
15) o-Terphenyl	0.00	230	0d	0.00	ng	
Spiked Amount 1.000			Recovery	=	0.00%	
18) Terphenyl-d14	16.02	244	11619	1.13	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	113.00%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
B47879.D SIM0311.M Tue Mar 15 13:43:48 2005

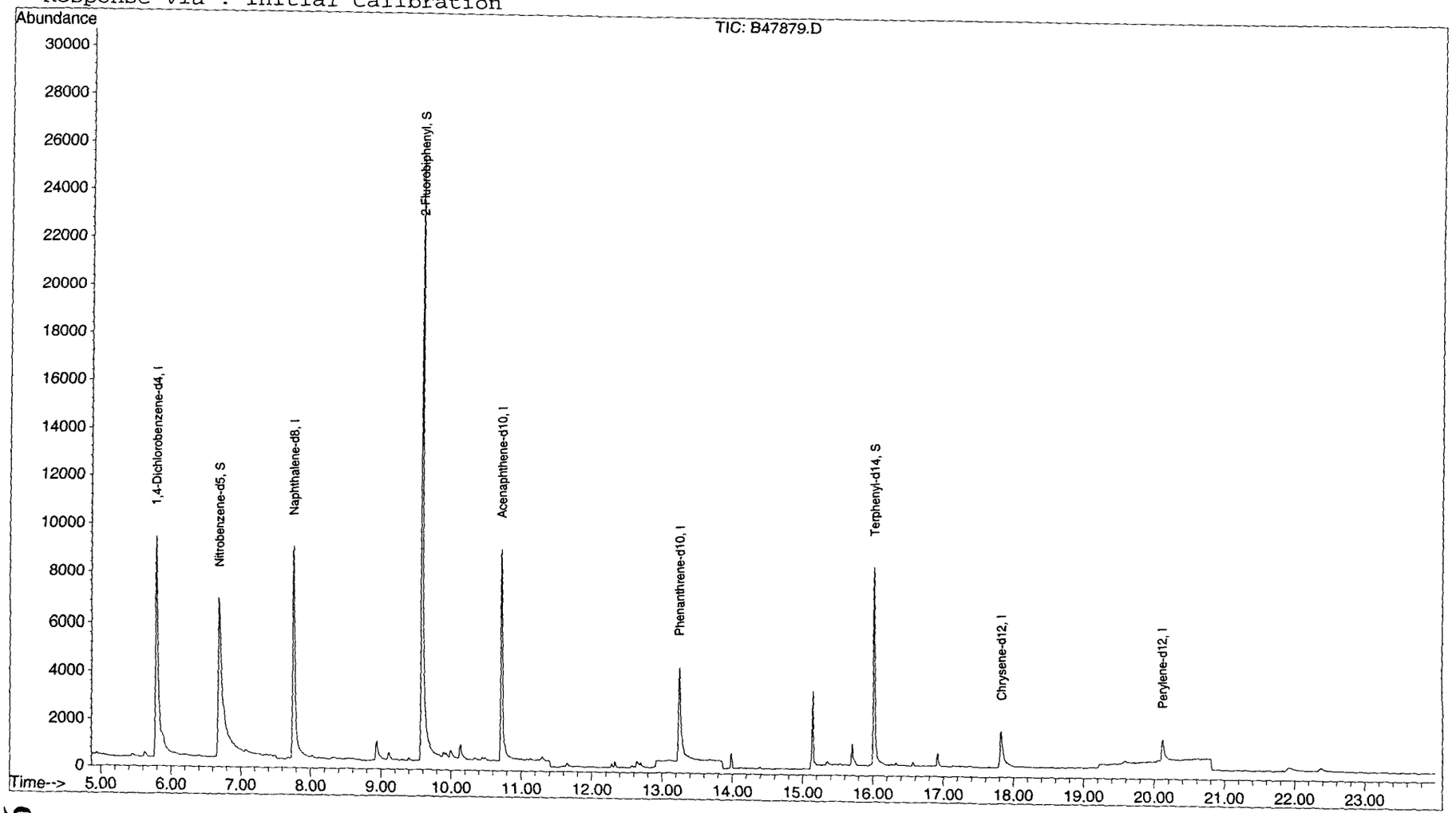
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47879.D
Acq On : 03/11/05 20:05
Sample : 7765-002 BRN-1120-MW18-6 25364
Misc : SIM W 03/09/05
MS Integration Params: rteint.p
Quant Time: Mar 15 12:52 2005

Vial: 14
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47880.D Vial: 15
Acq On : 03/11/05 20:36 Operator: CTP/BP CTP 3/15/05
Sample : 7765-003 BRN-1120-MW24-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 13:39 2005 Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.78	152	7650	0.40 ng	-0.01
2) Naphthalene-d8	7.74	136	17882	0.40 ng	-0.02
7) Acenaphthene-d10	10.72	164	10418	0.40 ng	0.00
12) Phenanthrene-d10	13.23	188	8100	0.40 ng	-0.02
17) Chrysene-d12	17.81	240	3968	0.40 ng	0.00
22) Perylene-d12	20.11	264	1986	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.67	82	17128	0.70 ng/ul	-0.04
Spiked Amount 1.000			Recovery	= 70.00%	
8) 2-Fluorobiphenyl	9.58	172	34966	0.49 ng/ul	-0.01
Spiked Amount 1.000			Recovery	= 49.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	16.01	244	16798	1.16 ng/ul	-0.02
Spiked Amount 1.000			Recovery	= 116.00%	
Target Compounds					Qvalue
4) Naphthalene	7.77	128	20143	0.28 ng #	43
5) 2-Methylnaphthalene	8.91	141	478568	20.10 ng ↑ #	96
6) 1-Methylnaphthalene	9.09	142	121965	3.37 ng ↑	94
10) Acenaphthene	10.76	153	18118	0.40 ng #	69
11) Fluorene	11.63	166	36776	0.86 ng	97
13) Phenanthrene	13.27	178	20816	0.88 ng #	100
14) Anthracene	13.35	178	1261	0.05 ng #	46

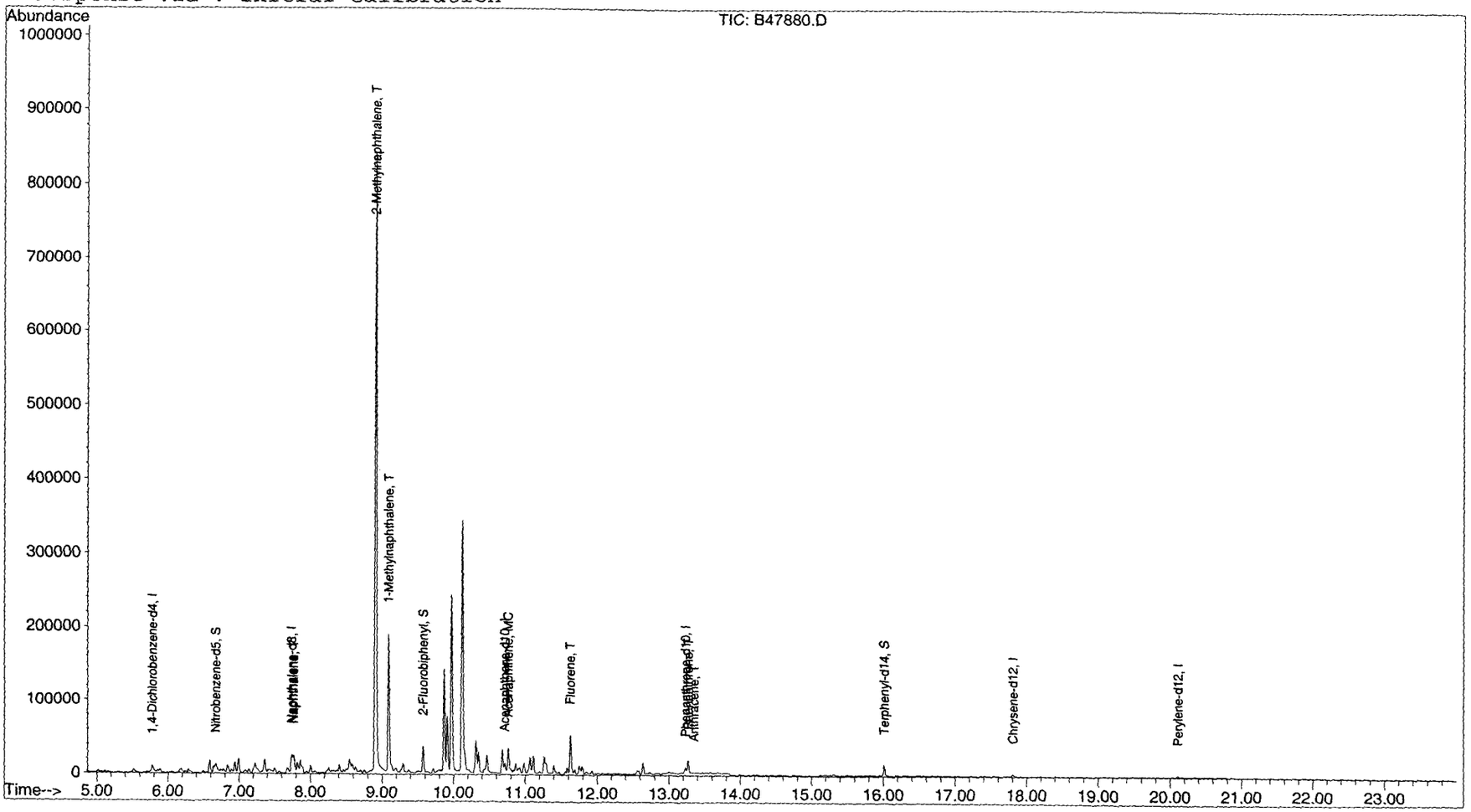
Cmpds. Above Cal. Range. R/R 5X + 20X

(#) = qualifier out of range (m) = manual integration
B47880.D SIM0311.M Tue Mar 15 13:43:51 2005

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47880.D Vial: 15
Acq On : 03/11/05 20:36 Operator: CTP/BP
Sample : 7765-003 BRN-1120-MW24-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 13:39 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



47880.D SIM0311.M Tue Mar 15 13:43:51 2005

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031505\B47891.D Vial: 7
Acq On : 03/15/05 17:23 Operator: CTP/BP CTP
Sample : 7765-003DIL1 BRN-1120-MW24-6DIL1 25364 Inst : HP-MSB 3/16/05
Misc : SIM W 03/09/05 DF=5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 16 9:17 2005 Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.78	152	7727	0.40 ng	0.00
2) Naphthalene-d8	7.73	136	19299	0.40 ng	0.00
7) Acenaphthene-d10	10.70	164	8248	0.40 ng	0.00
12) Phenanthrene-d10	13.22	188	8013	0.40 ng	0.00
17) Chrysene-d12	17.81	240	3328	0.40 ng	0.00
22) Perylene-d12	20.11	264	1779	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.72	82	1500m	0.06 ng/ul	0.02
Spiked Amount 1.000			Recovery	= 6.00%	
8) 2-Fluorobiphenyl	9.57	172	6928	0.12 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 12.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	16.00	244	2802	0.23 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 23.00%	
Target Compounds					Qvalue
4) Naphthalene	7.76	128	4711	0.06 ng #	39
5) 2-Methylnaphthalene	8.90	141	103562	4.03 ng ↑ #	99
6) 1-Methylnaphthalene	9.08	142	27980	0.72 ng	93
10) Acenaphthene	10.76	153	3477	0.10 ng #	75
11) Fluorene	11.62	166	7074	0.21 ng	96
13) Phenanthrene	13.26	178	3759	0.16 ng #	100

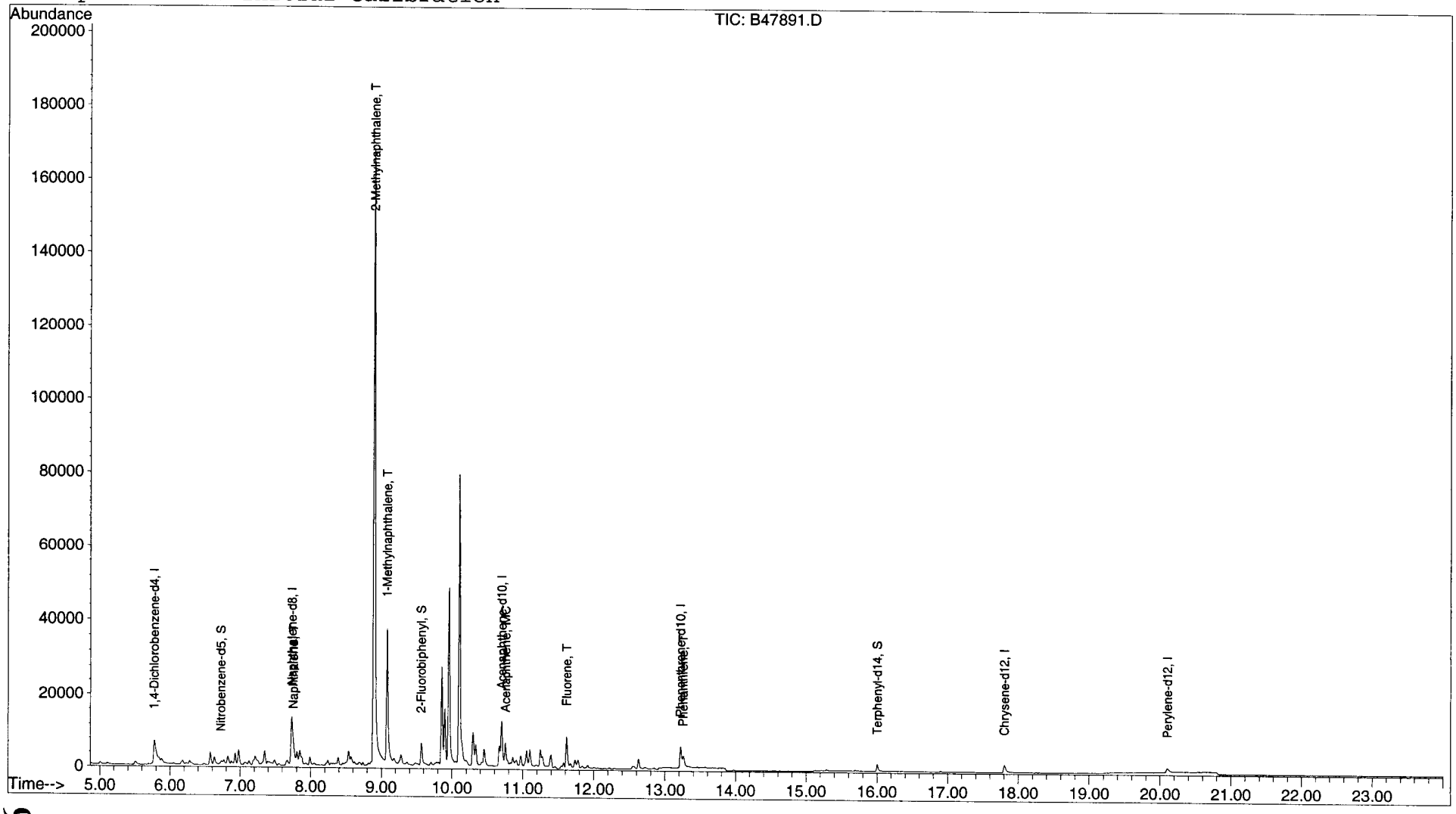
Comp Above Cal. Range R/R 20X

(#) = qualifier out of range (m) = manual integration
B47891.D SIM0311.M Wed Mar 16 09:35:53 2005

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031505\B47891.D Vial: 7
Acq On : 03/15/05 17:23 Operator: CTP/BP
Sample : 7765-003DIL1 BRN-1120-MW24-6DIL1 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 DF=5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 16 9:17 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031505\B47892.D Vial: 8
Acq On : 03/15/05 17:54 Operator: CTP/BP
Sample : 7765-003DIL2 BRN-1120-MW24-6DIL2 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 DF=20 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 16 9:19 2005 Quant Results File: SIM0311.RES

CTP 3/16/05

Quant Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

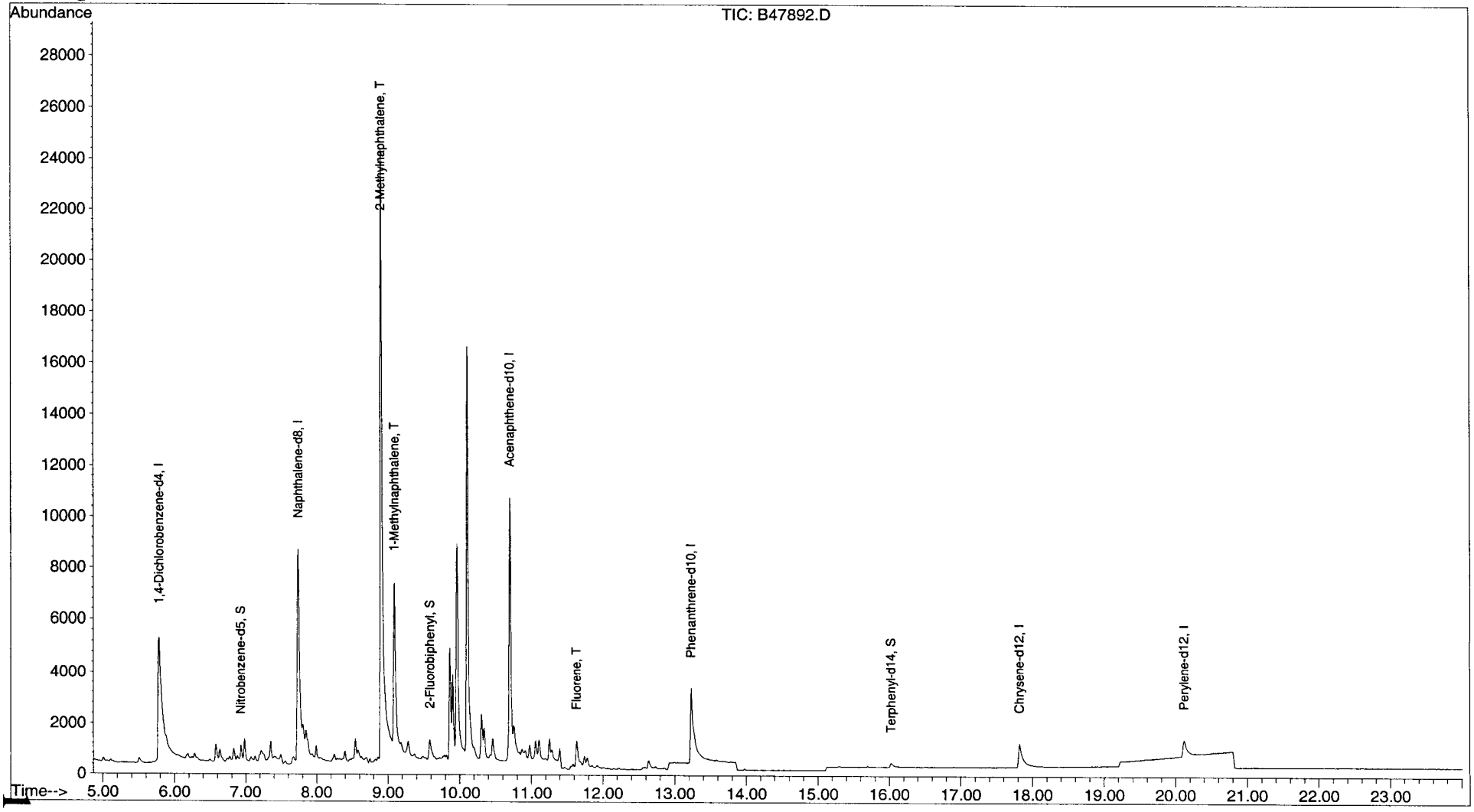
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.78	152	6941	0.40	ng	0.01
2) Naphthalene-d8	7.74	136	17408	0.40	ng	0.00
7) Acenaphthene-d10	10.70	164	7579	0.40	ng	0.00
12) Phenanthrene-d10	13.23	188	6538	0.40	ng	0.00
17) Chrysene-d12	17.82	240	2433	0.40	ng	0.02
22) Perylene-d12	20.12	264	1379	0.40	ng	0.01
System Monitoring Compounds						
3) Nitrobenzene-d5	6.93	82	429m	0.02	ng/ul	0.24
Spiked Amount 1.000			Recovery	=	2.00%	
8) 2-Fluorobiphenyl	9.58	172	1486	0.03	ng/ul	0.01
Spiked Amount 1.000			Recovery	=	3.00%	
15) o-Terphenyl	0.00	230	0d	0.00	ng	
Spiked Amount 1.000			Recovery	=	0.00%	
18) Terphenyl-d14	16.02	244	468	0.05	ng/ul	0.01
Spiked Amount 1.000			Recovery	=	5.00%	
Target Compounds						Qvalue
5) 2-Methylnaphthalene	8.90	141	20211	0.87	ng #	98
6) 1-Methylnaphthalene	9.09	142	6566	0.19	ng	99
11) Fluorene	11.63	166	1453	0.05	ng #	78

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031505\B47892.D Vial: 8
Acq On : 03/15/05 17:54 Operator: CTP/BP
Sample : 7765-003DIL2 BRN-1120-MW24-6DIL2 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 DF=20 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 16 9:19 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47881.D Vial: 16
Acq On : 03/11/05 21:07 Operator: CTP/BP
Sample : 7765-004 BRN-1120-MW16R-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 13:40 2005 Quant Results File: SIM0311.RES

CTP 3/15/05

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.78	152	8212	0.40	ng	0.00
2) Naphthalene-d8	7.75	136	18342	0.40	ng	-0.01
7) Acenaphthene-d10	10.72	164	7688	0.40	ng	0.00
12) Phenanthrene-d10	13.24	188	7313	0.40	ng	-0.01
17) Chrysene-d12	17.82	240	3036	0.40	ng	0.00
22) Perylene-d12	20.12	264	1690	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.68	82	19387	0.77	ng/ul	-0.04
Spiked Amount 1.000			Recovery	=	77.00%	
8) 2-Fluorobiphenyl	9.58	172	35473	0.68	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	68.00%	
15) o-Terphenyl	0.00	230	0d	0.00	ng	
Spiked Amount 1.000			Recovery	=	0.00%	
18) Terphenyl-d14	16.01	244	21357	1.93	ng/ul	-0.02
Spiked Amount 1.000			Recovery	=	193.00% ↑	
Target Compounds						Qvalue
5) 2-Methylnaphthalene	8.91	141	61644	2.52	ng ↑ #	97
6) 1-Methylnaphthalene	9.09	142	50670	1.36	ng	96
11) Fluorene	11.64	166	2493	0.08	ng	92
13) Phenanthrene	13.28	178	1220	0.06	ng #	97

High Surrogate Recovery
Comp. Above Cal. Range R/R 2X

(#) = qualifier out of range (m) = manual integration
B47881.D SIM0311.M Tue Mar 15 13:43:54 2005

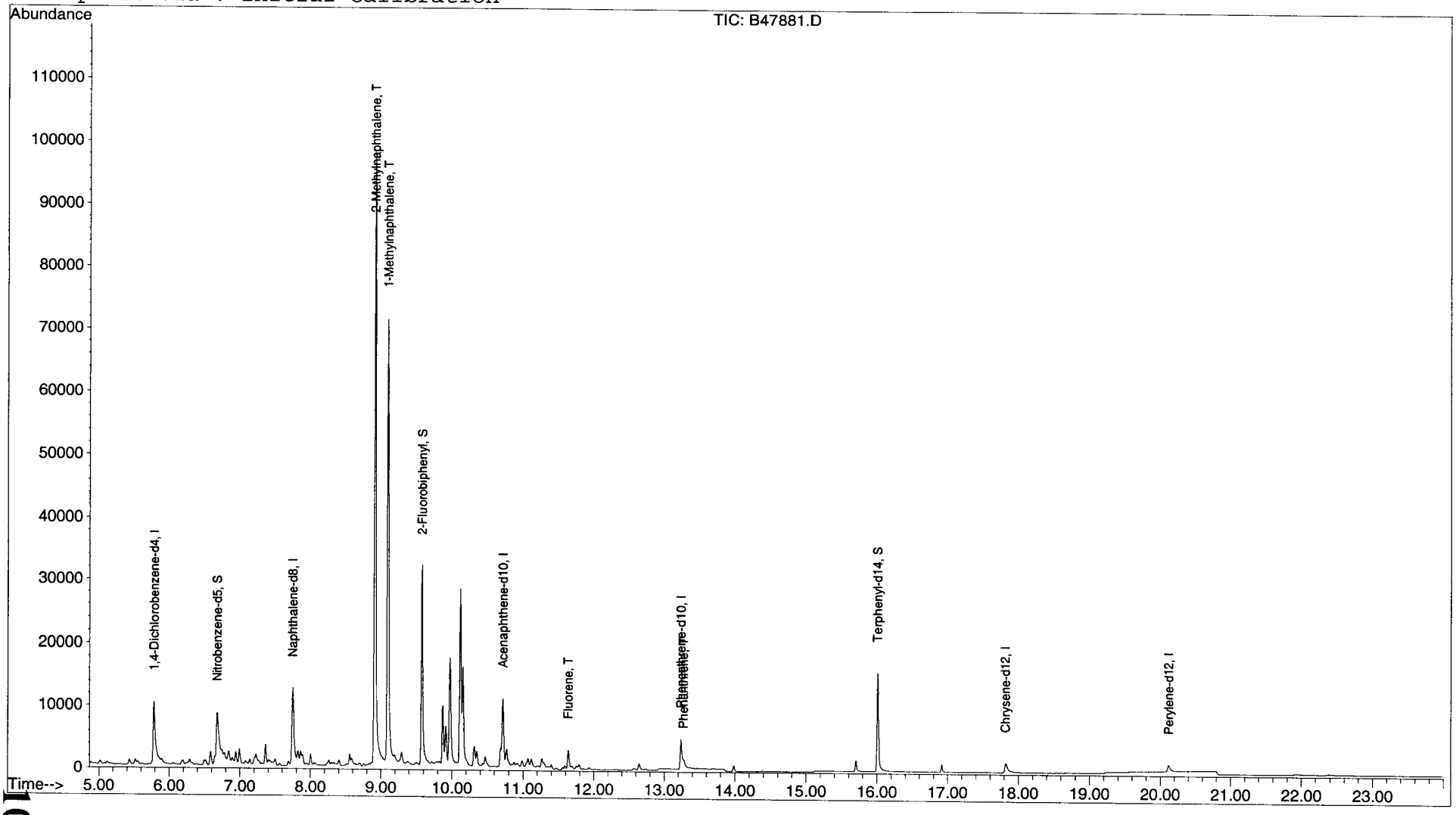
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47881.D
Acq On : 03/11/05 21:07
Sample : 7765-004 BRN-1120-MW16R-6 25364
Misc : SIM W 03/09/05
MS Integration Params: rteint.p
Quant Time: Mar 15 13:40 2005

Vial: 16
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031505\B47893.D Vial: 9
Acq On : 03/15/05 18:25 Operator: CTP/BP
Sample : 7765-004DIL BRN-1120-MW16R-6DIL 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 DF=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 16 9:21 2005 Quant Results File: SIM0311.RES

CTP 3/16/05

Quant Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	7786	0.40 ng	0.00
2) Naphthalene-d8	7.73	136	17742	0.40 ng	0.00
7) Acenaphthene-d10	10.70	164	7216	0.40 ng	0.00
12) Phenanthrene-d10	13.24	188	6025	0.40 ng	0.00
17) Chrysene-d12	17.82	240	2062	0.40 ng	0.02
22) Perylene-d12	20.12	264	1155m	0.40 ng	0.01
System Monitoring Compounds					
3) Nitrobenzene-d5	6.69	82	6418	0.27 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 27.00%	
8) 2-Fluorobiphenyl	9.57	172	16651	0.34 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 34.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	16.00	244	8036	1.07 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 107.00% ↑	
Target Compounds					Qvalue
5) 2-Methylnaphthalene	8.90	141	28162	1.19 ng #	98
6) 1-Methylnaphthalene	9.08	142	24855	0.69 ng	97

High Surrogate Recovery

(#) = qualifier out of range (m) = manual integration
B47893.D SIM0311.M Wed Mar 16 09:35:59 2005

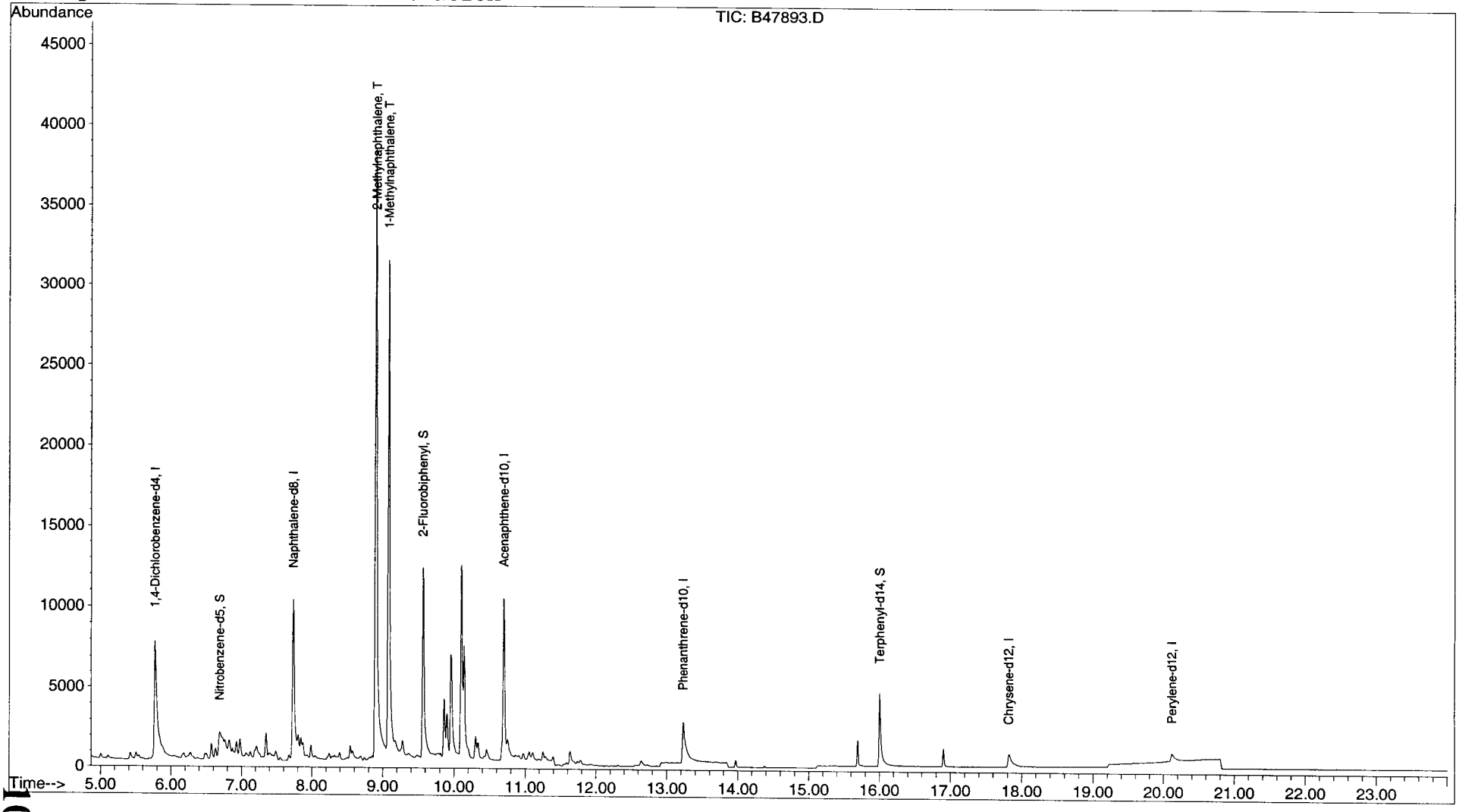
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031505\B47893.D
Acq On : 03/15/05 18:25
Sample : 7765-004DIL BRN-1120-MW16R-6DIL 25364
Misc : SIM W 03/09/05 DF=2
MS Integration Params: rteint.p
Quant Time: Mar 16 9:21 2005

Vial: 9
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031505\B47889.D Vial: 5
Acq On : 03/15/05 16:20 Operator: CTP/BP
Sample : 7765-005 BRN-1120-MW7-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 17:21 2005 Quant Results File: SIM0311.RES

CTP 3/16/05

Quant Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	11314	0.40	ng	0.00
2) Naphthalene-d8	7.73	136	24403	0.40	ng	0.00
7) Acenaphthene-d10	10.70	164	9560	0.40	ng	0.00
12) Phenanthrene-d10	13.22	188	9675	0.40	ng	0.00
17) Chrysene-d12	17.80	240	3850	0.40	ng	0.00
22) Perylene-d12	20.10	264	1871	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.66	82	26765	0.80	ng/ul	-0.03
Spiked Amount 1.000			Recovery	=	80.00%	
8) 2-Fluorobiphenyl	9.56	172	50054	0.77	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	77.00%	
15) o-Terphenyl	0.00	230	0d	0.00	ng	
Spiked Amount 1.000			Recovery	=	0.00%	
18) Terphenyl-d14	16.00	244	22473	1.60	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	160.00% ↑	

Target Compounds Qvalue

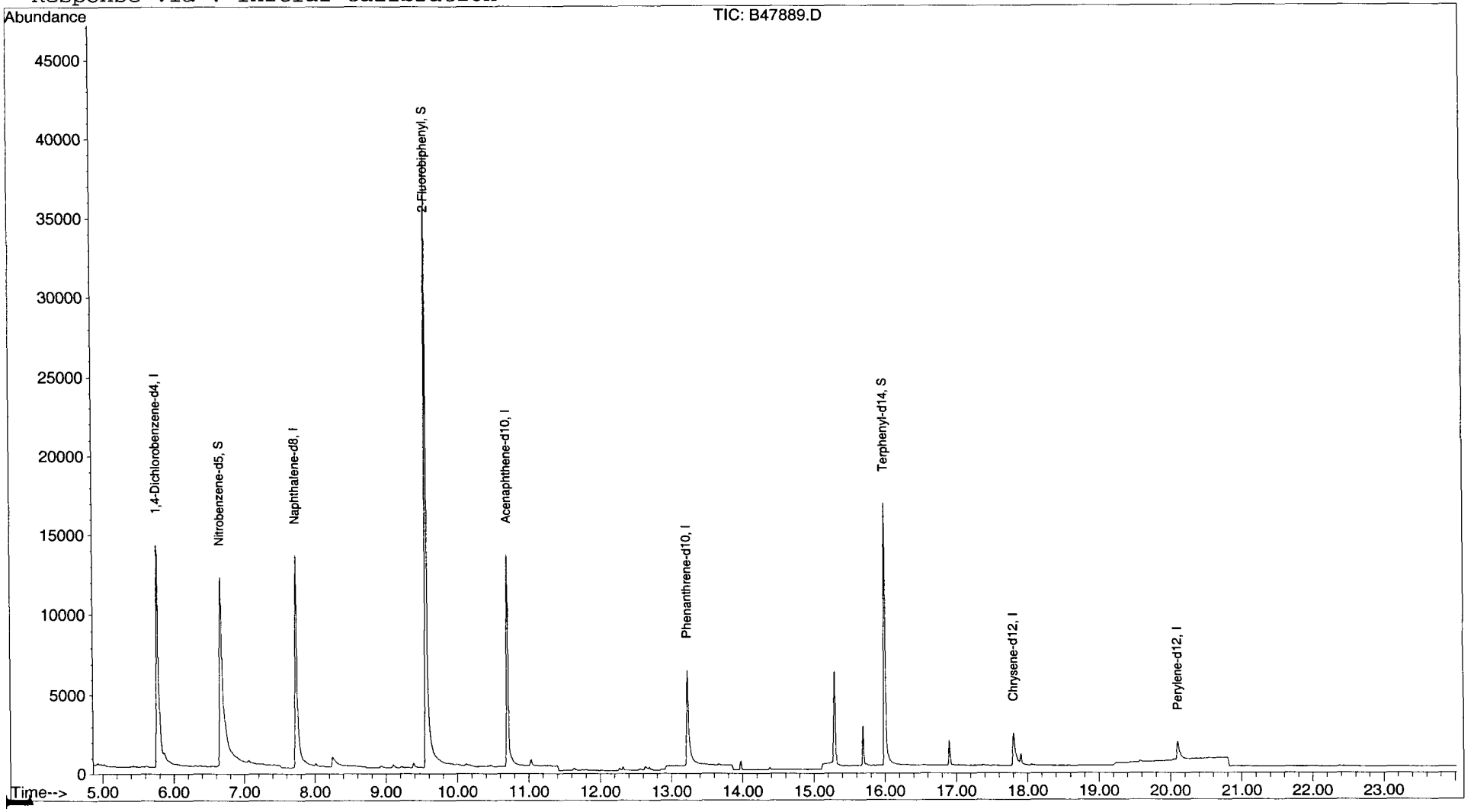
High Surrogate Recovery

(#) = qualifier out of range (m) = manual integration
B47889.D SIM0311.M Wed Mar 16 09:21:42 2005

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031505\B47889.D Vial: 5
Acq On : 03/15/05 16:20 Operator: CTP/BP
Sample : 7765-005 BRN-1120-MW7-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 17:21 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47883.D
Acq On : 03/11/05 22:10
Sample : 7765-006 BRN-1120-MW28-6 25364
Misc : SIM W 03/09/05
MS Integration Params: rteint.p
Quant Time: Mar 15 13:42 2005

Vial: 18
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

CTP 3/15/05

Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	8005	0.40	ng	0.00
2) Naphthalene-d8	7.75	136	16983	0.40	ng	-0.01
7) Acenaphthene-d10	10.72	164	6606	0.40	ng	0.00
12) Phenanthrene-d10	13.24	188	6807	0.40	ng	-0.01
17) Chrysene-d12	17.83	240	2704	0.40	ng	0.00
22) Perylene-d12	20.12	264	1402	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.69	82	17037	0.74	ng/ul	-0.02
Spiked Amount 1.000			Recovery	=	74.00%	
8) 2-Fluorobiphenyl	9.58	172	34438	0.76	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	76.00%	
15) o-Terphenyl	0.00	230	0d	0.00	ng	
Spiked Amount 1.000			Recovery	=	0.00%	
18) Terphenyl-d14	16.01	244	16279	1.65	ng/ul	-0.02
Spiked Amount 1.000			Recovery	=	165.00% ↑	

Target Compounds Qvalue

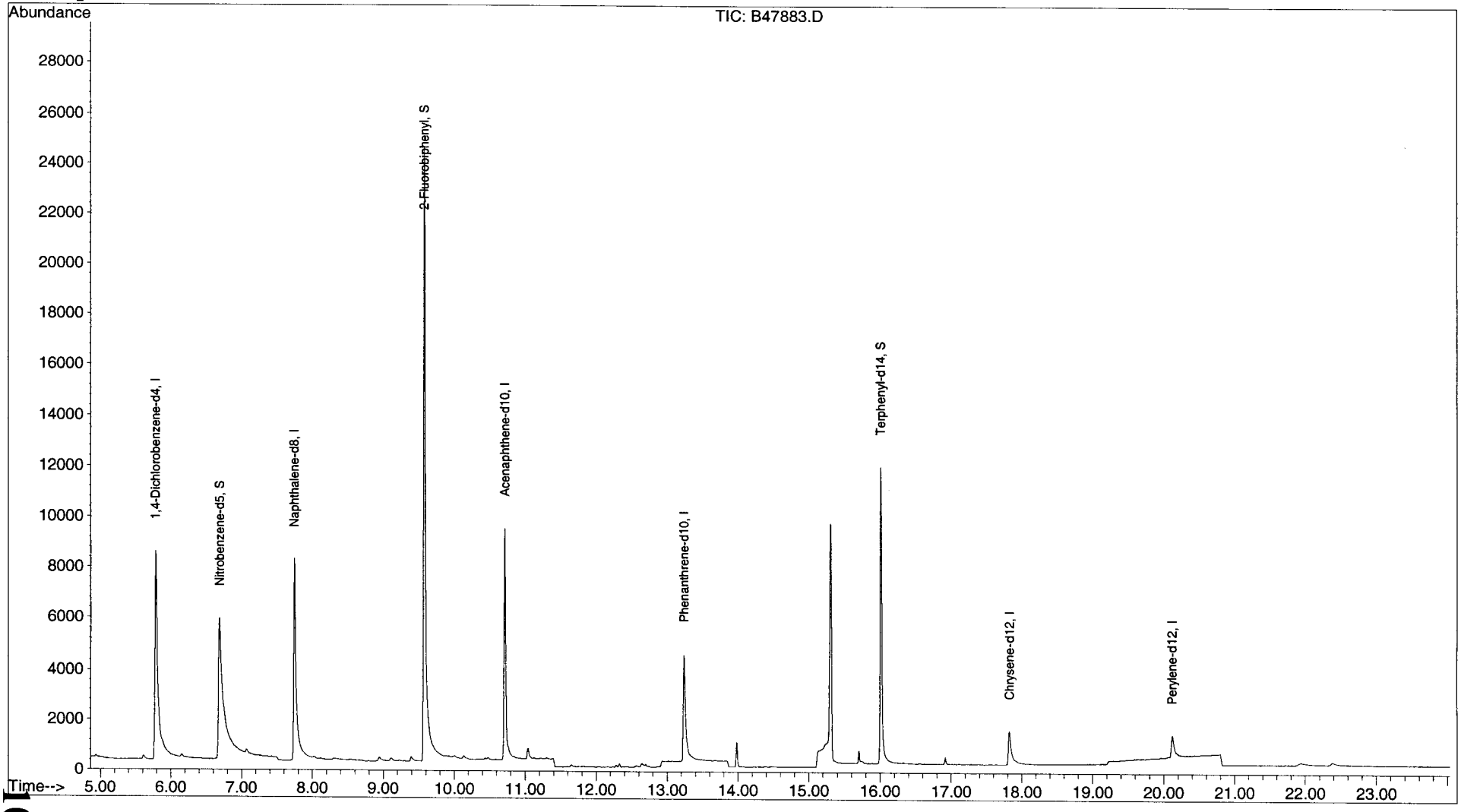
High Surrogate Recovery

(#) = qualifier out of range (m) = manual integration
B47883.D SIM0311.M Tue Mar 15 13:43:58 2005

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47883.D Vial: 18
Acq On : 03/11/05 22:10 Operator: CTP/BP
Sample : 7765-006 BRN-1120-MW28-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 13:42 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031505\B47890.D
Acq On : 03/15/05 16:52
Sample : 7765-007 BRN-1120-MW32-6 25364
Misc : SIM W 03/09/05
MS Integration Params: rteint.p
Quant Time: Mar 15 17:21 2005

Vial: 6
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

CTP 3/16/05

Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	10397	0.40	ng	0.00
2) Naphthalene-d8	7.73	136	21987	0.40	ng	0.00
7) Acenaphthene-d10	10.70	164	8754	0.40	ng	0.00
12) Phenanthrene-d10	13.23	188	8339	0.40	ng	0.00
17) Chrysene-d12	17.81	240	3651	0.40	ng	0.01
22) Perylene-d12	20.10	264	1941	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.67	82	23819	0.79	ng/ul	-0.03
Spiked Amount 1.000			Recovery	=	79.00%	
8) 2-Fluorobiphenyl	9.56	172	45421	0.76	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	76.00%	
15) o-Terphenyl	0.00	230	0d	0.00	ng	
Spiked Amount 1.000			Recovery	=	0.00%	
18) Terphenyl-d14	16.00	244	19356	1.46	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	146.00% ↑	

Target Compounds Qvalue

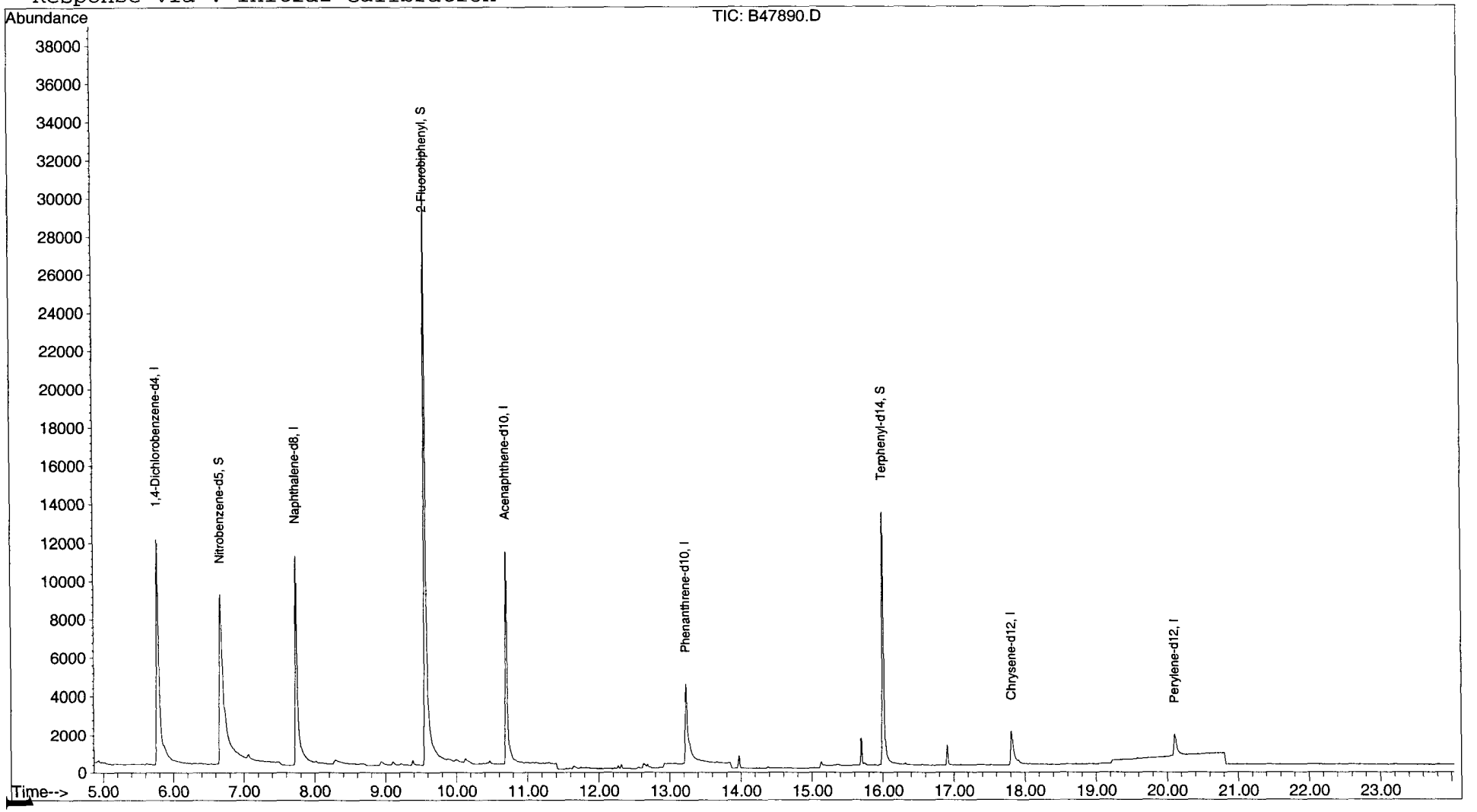
High Surrogate Recovery

(#) = qualifier out of range (m) = manual integration
B47890.D SIM0311.M Wed Mar 16 09:21:45 2005

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031505\B47890.D Vial: 6
Acq On : 03/15/05 16:52 Operator: CTP/BP
Sample : 7765-007 BRN-1120-MW32-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 17:21 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47874.D Vial: 9
Acq On : 03/11/05 17:28 Operator: CTP/BP CTP 3/15/05
Sample : 25364BLK Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 12:48 2005 Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.80	152	7484	0.40	ng	0.00
2) Naphthalene-d8	7.76	136	15666	0.40	ng	0.00
7) Acenaphthene-d10	10.72	164	6091	0.40	ng	0.00
12) Phenanthrene-d10	13.26	188	5436	0.40	ng	0.00
17) Chrysene-d12	17.83	240	2762	0.40	ng	0.01
22) Perylene-d12	20.13	264	1509	0.40	ng	0.01
System Monitoring Compounds						
3) Nitrobenzene-d5	6.69	82	18019	0.84	ng/ul	-0.02
Spiked Amount 1.000			Recovery = 84.00%			
8) 2-Fluorobiphenyl	9.59	172	35759	0.86	ng/ul	0.00
Spiked Amount 1.000			Recovery = 86.00%			
15) o-Terphenyl	0.00	230	0d	0.00	ng	
Spiked Amount 1.000			Recovery = 0.00%			
18) Terphenyl-d14	16.02	244	11764	1.17	ng/ul	0.00
Spiked Amount 1.000			Recovery = 117.00%			

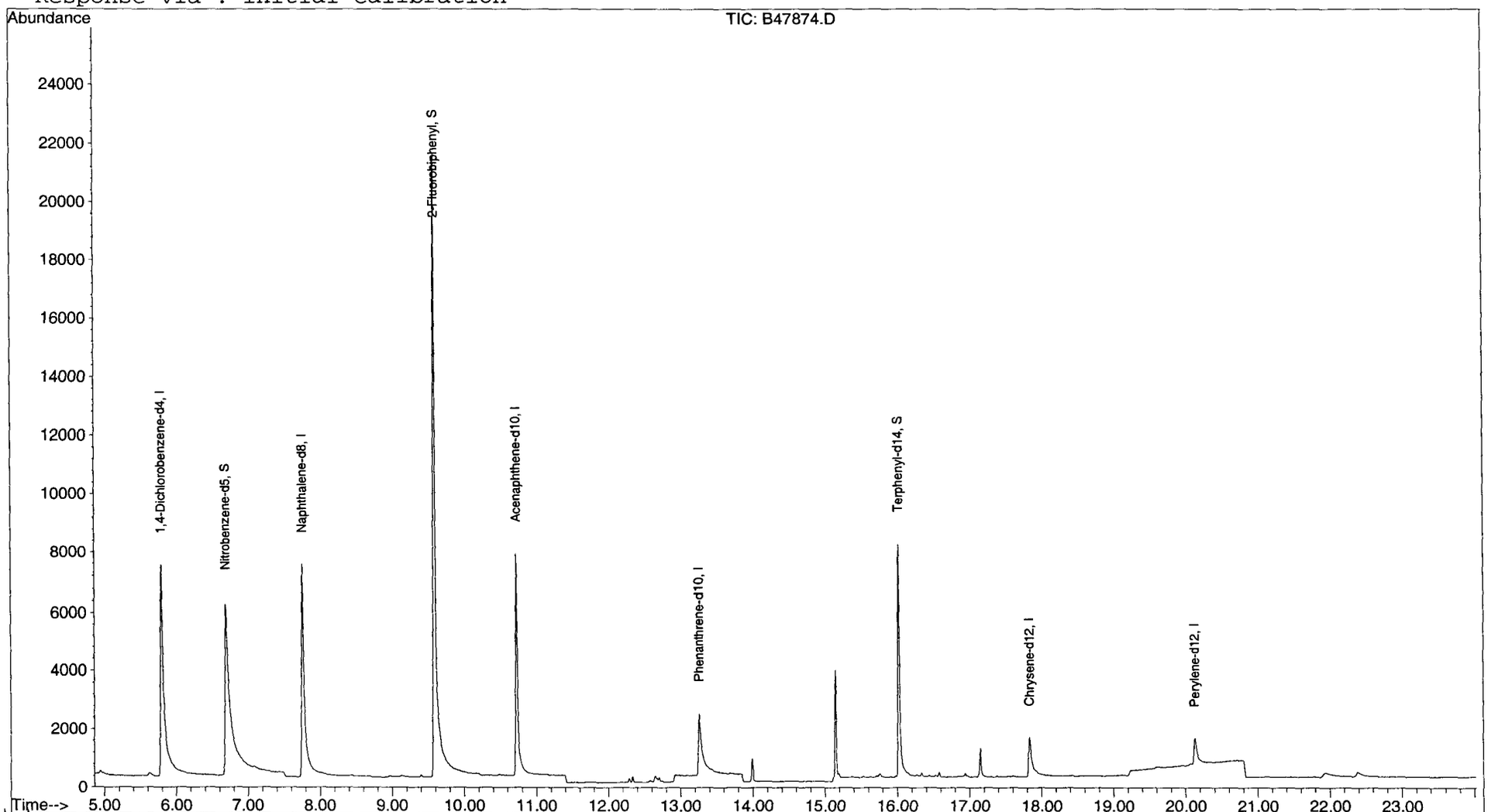
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47874.D Vial: 9
Acq On : 03/11/05 17:28 Operator: CTP/BP
Sample : 25364BLK Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 12:48 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47875.D Vial: 10
Acq On : 03/11/05 17:59 Operator: CTP/BP
Sample : 25364BKS Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 12:49 2005 Quant Results File: SIM0311.RES

CTP 3/15/05

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

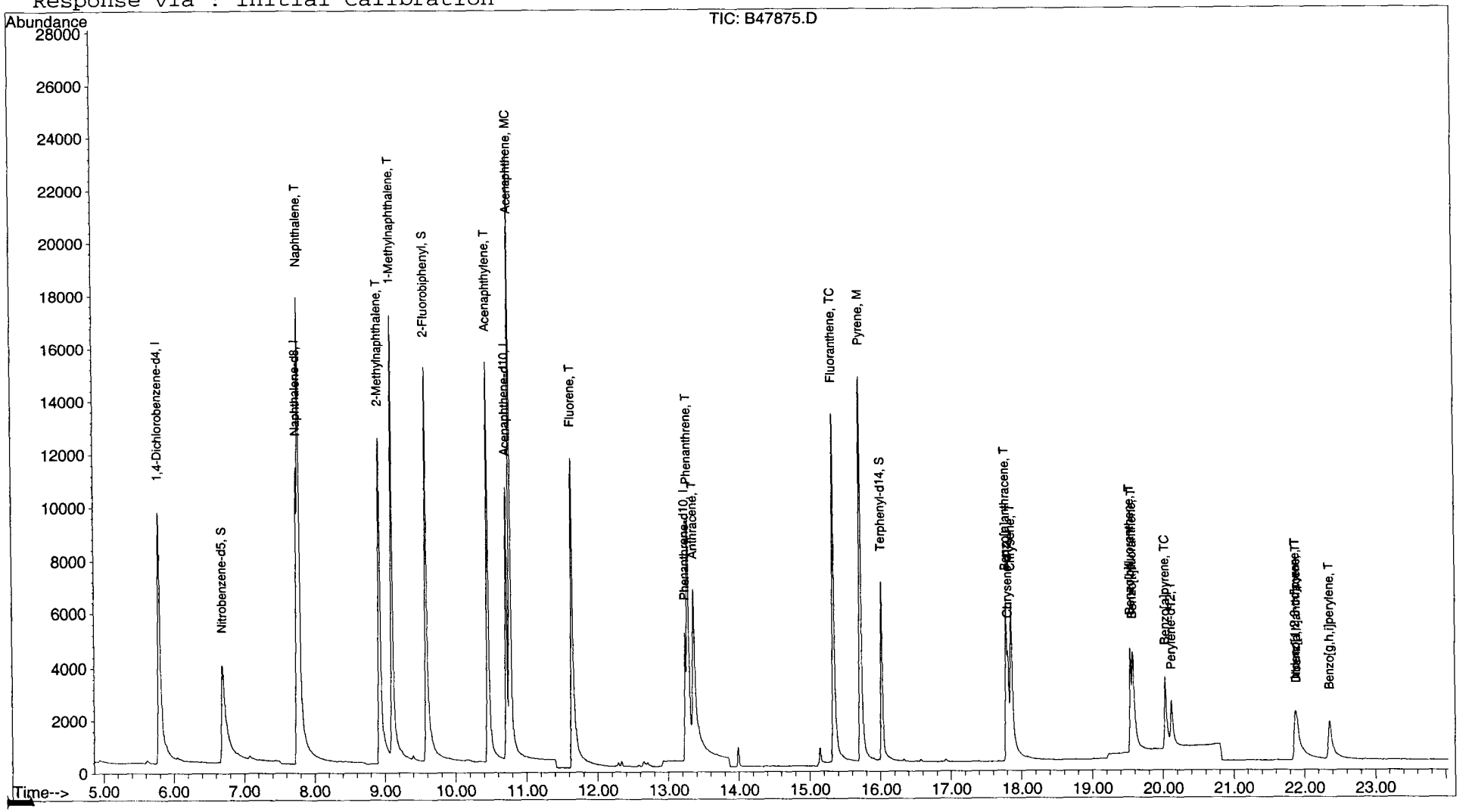
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	8570	0.40 ng	0.00
2) Naphthalene-d8	7.75	136	18641	0.40 ng	0.00
7) Acenaphthene-d10	10.72	164	7328	0.40 ng	0.00
12) Phenanthrene-d10	13.24	188	7384	0.40 ng	0.00
17) Chrysene-d12	17.82	240	3931	0.40 ng	0.00
22) Perylene-d12	20.12	264	2158	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.70	82	11220	0.44 ng/ul	-0.01
Spiked Amount 1.000			Recovery	= 44.00%	
8) 2-Fluorobiphenyl	9.58	172	23281	0.47 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 47.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	16.02	244	10084	0.70 ng/ul	-0.01
Spiked Amount 1.000			Recovery	= 70.00%	
Target Compounds					Qvalue
4) Naphthalene	7.78	128	29946	0.40 ng	100
5) 2-Methylnaphthalene	8.92	141	10455	0.42 ng #	99
6) 1-Methylnaphthalene	9.10	142	14732	0.39 ng	98
9) Acenaphthylene	10.46	152	21083	0.44 ng #	100
10) Acenaphthene	10.77	153	13842	0.43 ng	99
11) Fluorene	11.64	166	14409	0.48 ng	97
13) Phenanthrene	13.28	178	13310	0.62 ng #	100
14) Anthracene	13.36	178	13838	0.55 ng #	99
16) Fluoranthene	15.33	202	18036	0.60 ng #	98
19) Pyrene	15.72	202	19505	0.48 ng #	98
20) Benzo[a]anthracene	17.79	228	7268	0.57 ng #	100
21) Chrysene	17.86	228	9775	0.50 ng #	98
23) Benzo[b]fluoranthene	19.54	252	4475	0.57 ng #	94
24) Benzo[k]fluoranthene	19.58	252	6693	0.52 ng #	96
25) Benzo[a]pyrene	20.03	252	4780	0.55 ng #	94
26) Indeno[1,2,3-cd]pyrene	21.87	276	3970m	0.45 ng	
27) Dibenz[a,h]anthracene	21.90	278	1529	0.33 ng	91
28) Benzo[g,h,i]perylene	22.36	276	3266	0.34 ng	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47875.D Vial: 10
Acq On : 03/11/05 17:59 Operator: CTP/BP
Sample : 25364BKS Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 12:49 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47877.D Vial: 12
Acq On : 03/11/05 19:02 Operator: CTP/BP
Sample : 7765-001MS BRN-1120-MW27-6MS 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 12:51 2005 Quant Results File: SIM0311.RES

CTP 3/15/05

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

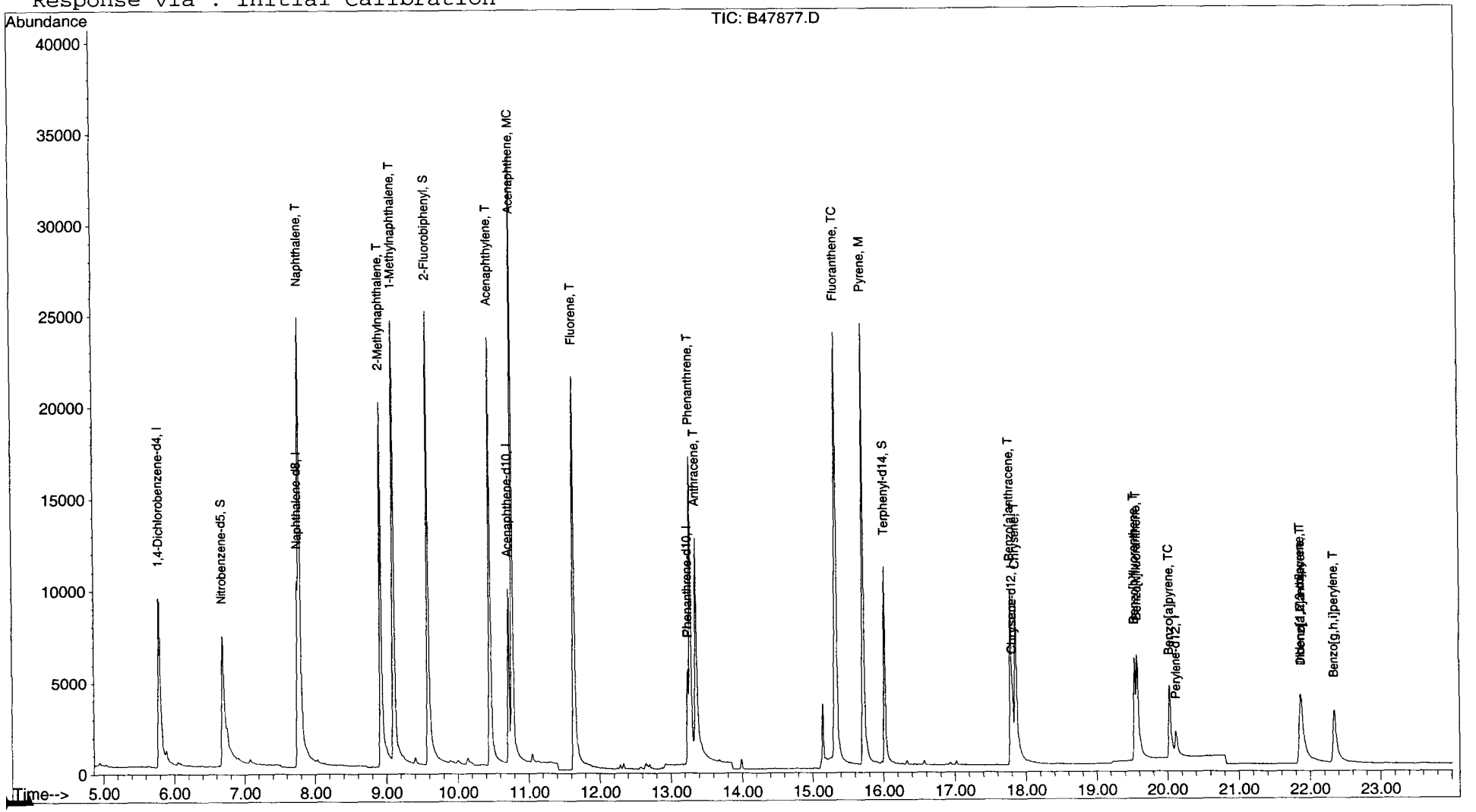
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	7941	0.40 ng	0.00
2) Naphthalene-d8	7.75	136	16465	0.40 ng	-0.01
7) Acenaphthene-d10	10.72	164	6401	0.40 ng	0.00
12) Phenanthrene-d10	13.24	188	6727	0.40 ng	0.00
17) Chrysene-d12	17.81	240	3216	0.40 ng	0.00
22) Perylene-d12	20.12	264	1618	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.68	82	15861	0.71 ng/ul	-0.03
Spiked Amount 1.000			Recovery	= 71.00%	
8) 2-Fluorobiphenyl	9.58	172	32578	0.75 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 75.00%	
15) o-Terphenyl	0.00	230	0d	0.00 ng	
Spiked Amount 1.000			Recovery	= 0.00%	
18) Terphenyl-d14	16.02	244	14175	1.21 ng/ul	-0.01
Spiked Amount 1.000			Recovery	= 121.00%	
Target Compounds					Qvalue
4) Naphthalene	7.78	128	41686	0.64 ng	100
5) 2-Methylnaphthalene	8.92	141	15219	0.69 ng #	99
6) 1-Methylnaphthalene	9.10	142	20235	0.61 ng	98
9) Acenaphthylene	10.46	152	30664	0.74 ng #	99
10) Acenaphthene	10.77	153	19472	0.70 ng	100
11) Fluorene	11.64	166	20768	0.79 ng	99
13) Phenanthrene	13.27	178	20800	1.06 ng #	99
14) Anthracene	13.35	178	21021	0.91 ng #	97
16) Fluoranthene	15.33	202	27854	1.02 ng #	99
19) Pyrene	15.71	202	29204	0.88 ng #	98
20) Benzo[a]anthracene	17.79	228	11646	1.11 ng #	100
21) Chrysene	17.85	228	14488	0.90 ng #	99
23) Benzo[b]fluoranthene	19.54	252	6225	1.06 ng #	98
24) Benzo[k]fluoranthene	19.57	252	9520	0.99 ng #	99
25) Benzo[a]pyrene	20.02	252	6699	1.03 ng #	92
26) Indeno[1,2,3-cd]pyrene	21.86	276	5430	0.82 ng	87
27) Dibenz[a,h]anthracene	21.88	278	3351	0.96 ng	95
28) Benzo[g,h,i]perylene	22.34	276	5900	0.83 ng	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47877.D Vial: 12
Acq On : 03/11/05 19:02 Operator: CTP/BP
Sample : 7765-001MS BRN-1120-MW27-6MS 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 12:51 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47878.D Vial: 13
Acq On : 03/11/05 19:33 Operator: CTP/BP
Sample : 7765-001MSD BRN-1120-MW27-6MSD 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 12:51 2005 Quant Results File: SIM0311.RES

CTP 3/15/05

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	8375	0.40	ng	0.00
2) Naphthalene-d8	7.75	136	17543	0.40	ng	-0.01
7) Acenaphthene-d10	10.72	164	6788	0.40	ng	0.00
12) Phenanthrene-d10	13.24	188	7207	0.40	ng	-0.01
17) Chrysene-d12	17.81	240	3555	0.40	ng	0.00
22) Perylene-d12	20.12	264	1818	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.68	82	17699	0.74	ng/ul	-0.03
Spiked Amount 1.000			Recovery	=	74.00%	
8) 2-Fluorobiphenyl	9.58	172	34048	0.74	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	74.00%	
15) o-Terphenyl	0.00	230	0d	0.00	ng	
Spiked Amount 1.000			Recovery	=	0.00%	
18) Terphenyl-d14	16.01	244	15953	1.23	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	123.00%	

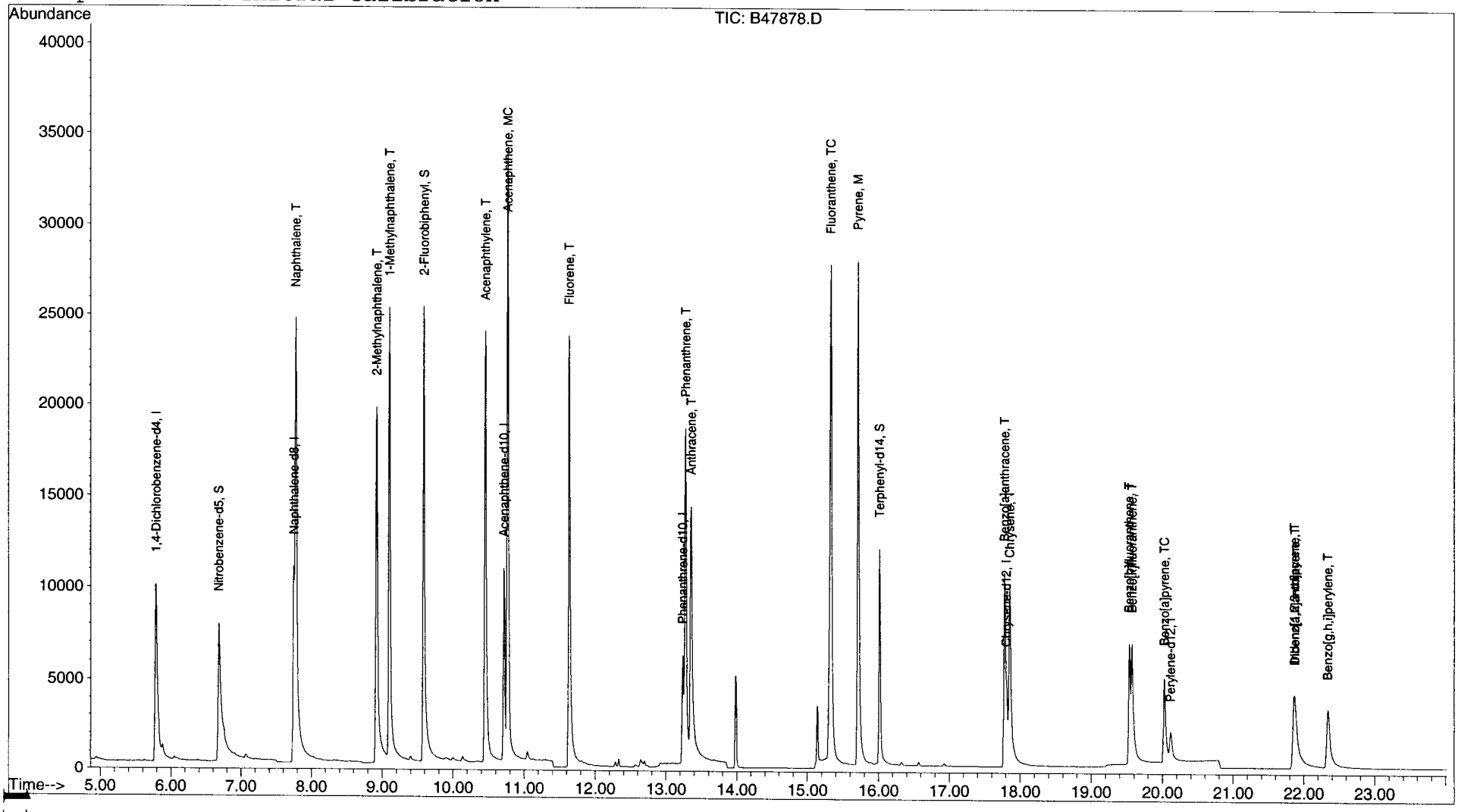
Target Compounds							Qvalue
4) Naphthalene	7.78	128	40793	0.58	ng		100
5) 2-Methylnaphthalene	8.92	141	15225	0.65	ng	#	99
6) 1-Methylnaphthalene	9.10	142	20868	0.59	ng		98
9) Acenaphthylene	10.46	152	31619	0.72	ng	#	100
10) Acenaphthene	10.77	153	19974	0.67	ng		100
11) Fluorene	11.63	166	21825	0.79	ng		100
13) Phenanthrene	13.28	178	23544	1.12	ng	#	100
14) Anthracene	13.35	178	23659	0.96	ng	#	99
16) Fluoranthene	15.33	202	32215	1.11	ng	#	99
19) Pyrene	15.71	202	33410	0.91	ng	#	98
20) Benzo[a]anthracene	17.78	228	13031	1.13	ng	#	100
21) Chrysene	17.85	228	15862	0.89	ng	#	98
23) Benzo[b]fluoranthene	19.54	252	7228	1.09	ng	#	93
24) Benzo[k]fluoranthene	19.57	252	10374	0.96	ng	#	94
25) Benzo[a]pyrene	20.03	252	7604	1.04	ng	#	93
26) Indeno[1,2,3-cd]pyrene	21.86	276	5920	0.79	ng		86
27) Dibenz[a,h]anthracene	21.88	278	3630	0.92	ng		96
28) Benzo[g,h,i]perylene	22.34	276	6328	0.79	ng		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47878.D Vial: 13
Acq On : 03/11/05 19:33 Operator: CTP/BP
Sample : 7765-001MSD BRN-1120-MW27-6MSD 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 12:51 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

File Only CTP 3/15/05

Data File : C:\HPCHEM\1\DATA\1B031105\B47882.D Vial: 17
Acq On : 03/11/05 21:38 Operator: CTP/BP
Sample : 7765-005 BRN-1120-MW7-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 13:41 2005 Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.78	152	7508	0.40	ng	0.00
2) Naphthalene-d8	7.75	136	15678	0.40	ng	-0.01
7) Acenaphthene-d10	10.72	164	6115	0.40	ng	0.00
12) Phenanthrene-d10	13.24	188	6031	0.40	ng	0.00
17) Chrysene-d12	17.82	240	2340	0.40	ng	0.00
22) Perylene-d12	20.12	264	1151 ↓	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.68	82	17183	0.80	ng/ul	-0.03
Spiked Amount 1.000			Recovery	=	80.00%	
8) 2-Fluorobiphenyl	9.58	172	33109	0.79	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	79.00%	
15) o-Terphenyl	0.00	230	0d	0.00	ng	
Spiked Amount 1.000			Recovery	=	0.00%	
18) Terphenyl-d14	16.02	244	14341	1.68	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	168.00% ↑	

Target Compounds Qvalue

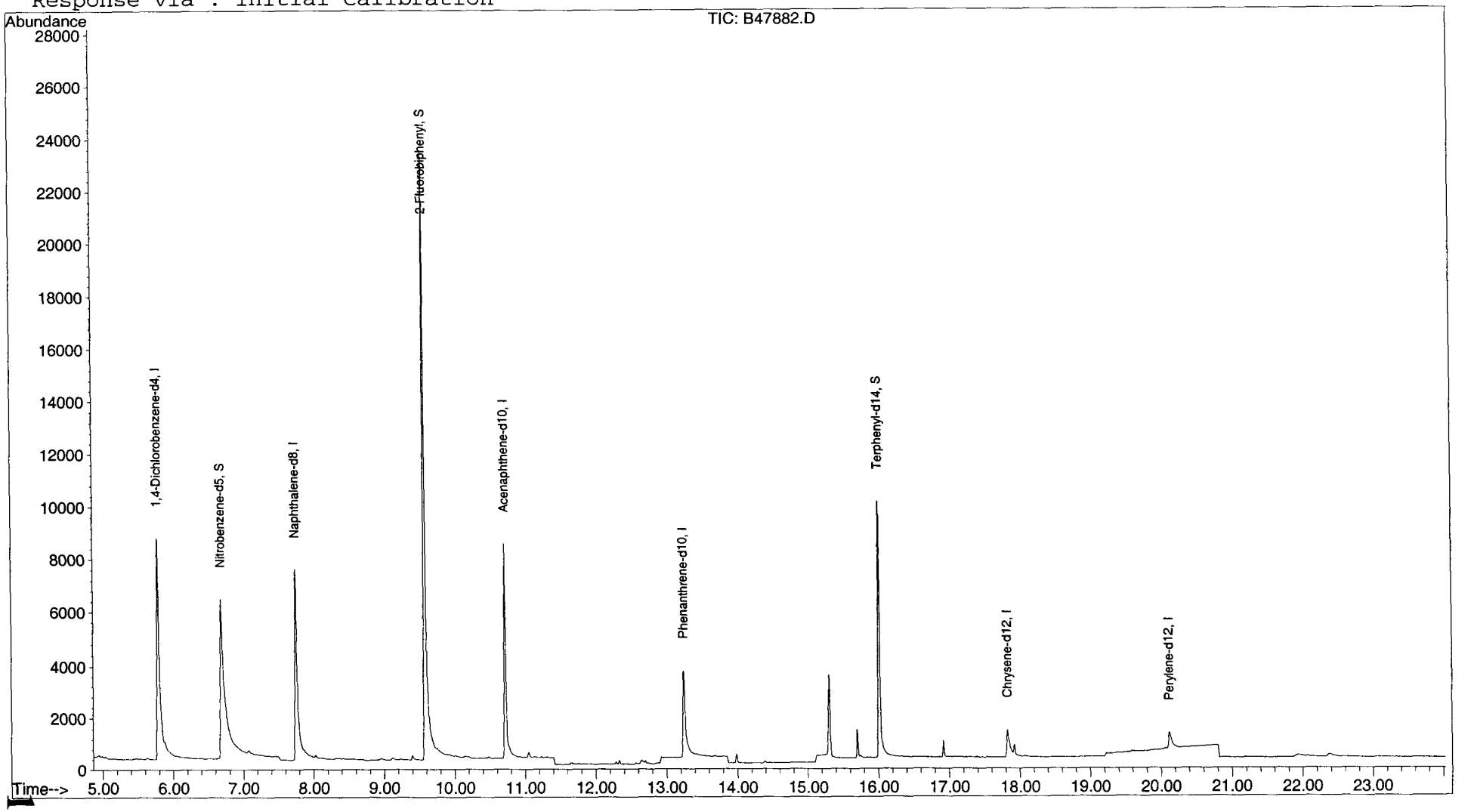
Low ISTD Response
High Surrogate Recovery

(#) = qualifier out of range (m) = manual integration
B47882.D SIM0311.M Tue Mar 15 13:43:56 2005

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47882.D Vial: 17
Acq On : 03/11/05 21:38 Operator: CTP/BP
Sample : 7765-005 BRN-1120-MW7-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 13:41 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

File Only
CTP
3/15/05

Data File : C:\HPCHEM\1\DATA\1B031105\B47884.D Vial: 19
Acq On : 03/11/05 22:41 Operator: CTP/BP
Sample : 7765-007 BRN-1120-MW32-6 25364 Inst : HP-MSB
Misc : SIM W 03/09/05 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 13:43 2005 Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	7305	0.40	ng	0.00
2) Naphthalene-d8	7.75	136	14872	0.40	ng	0.00
7) Acenaphthene-d10	10.71	164	5901	0.40	ng	0.00
12) Phenanthrene-d10	13.25	188	5205	0.40	ng	0.00
17) Chrysene-d12	17.83	240	2075↓	0.40	ng	0.01
22) Perylene-d12	20.12	264	1074↓	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.69	82	16102	0.79	ng/ul	-0.02
Spiked Amount 1.000			Recovery	=	79.00%	
8) 2-Fluorobiphenyl	9.58	172	31315	0.78	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	78.00%	
15) o-Terphenyl	0.00	230	0d	0.00	ng	
Spiked Amount 1.000			Recovery	=	0.00%	
18) Terphenyl-d14	16.02	244	11905	1.58	ng/ul	-0.01
Spiked Amount 1.000			Recovery	=	158.00% ↑	

Target Compounds Qvalue

High Surrogate Recovery

Low Internal Standard Responses

(#) = qualifier out of range (m) = manual integration
B47884.D SIM0311.M Tue Mar 15 13:44:00 2005

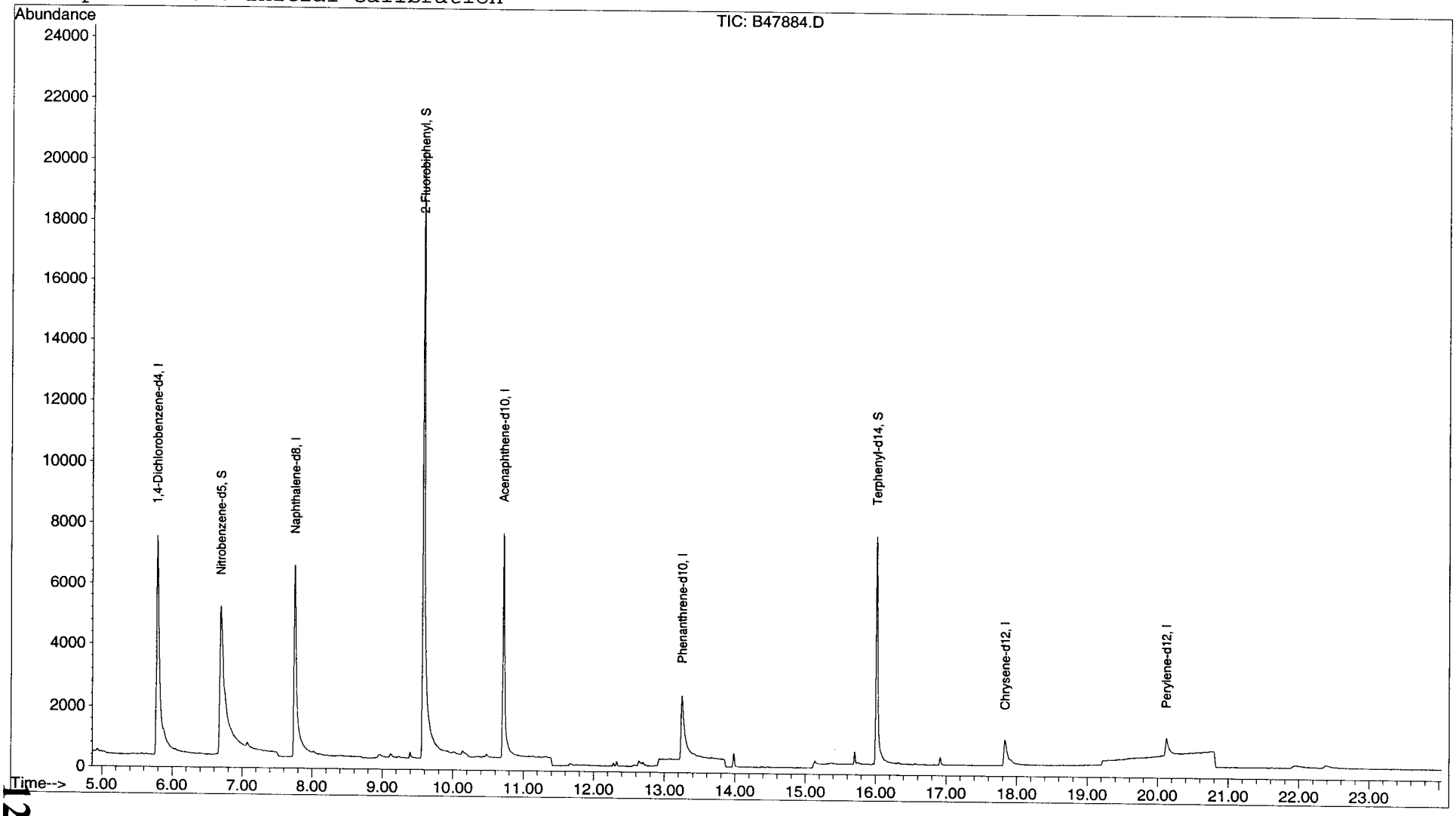
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47884.D
Acq On : 03/11/05 22:41
Sample : 7765-007 BRN-1120-MW32-6 25364
Misc : SIM W 03/09/05
MS Integration Params: rteint.p
Quant Time: Mar 15 13:43 2005

Vial: 19
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Semi-Volatiles GC/MS CALIBRATION CHECKLIST
SW-846-8270C

DATE / INSTRUMENT: 3/11/05 B	METHOD: 8270C
CAL TYPE: SIM (0.1 - 1.6)	

Are all standards within expiration dates for both stock and serial standards? ~~Y~~ N

Are tuning results compliant with method? ~~Y~~ N

Are DDT breakdown and tailing factors within method limits? ~~Y~~ N

Are all Initial Calibration RSDs compliant for CCCs and non-CCC compounds? Y ~~N~~

If RSDs are non-compliant, was initial calibration curve constructed using one of the alternative methods from method 8000B? (list analytes below) Y ~~N~~ N/A

Benzo[b]fluoranthene, benzo[g,h,i]perylene had %RSD > 15%. However, since the avg %RSD is < 15%, no regression is necessary

Is the run log completely filled out (including review signature/date)? ~~Y~~ N

Are all mistakes single lined, initialed, and dated? CTP 3/15/05 ~~Y~~ N ~~N/A~~

Analyst: CTP	Reviewer: MC
Date: 3/15/05 Time: 13:55	Date: 3/15/05 Time: 14:10

Response Factor Report HP-MSB

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 15:31:43 2005
Response via : Initial Calibration

CTP 3/11/05

Calibration Files
10 =B47864.D 20 =B47865.D 50 =B47866.D
80 =B47867.D 120 =B47868.D 160 =B47869.D

		Compound	10	20	50	80	120	160	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	ISTD							
2)	I	Naphthalene-d8	ISTD							
3)	S	Nitrobenzene-d5	0.517	0.498	0.523	0.532	0.597	0.607	0.546	8.28
4)	T	Naphthalene	1.794	1.522	1.541	1.549	1.582	1.562	1.592	6.36
5)	T	2-Methylnaphthalene	0.482	0.493	0.520	0.540	0.578	0.583	0.533	7.97
6)	T	1-Methylnaphthalene	0.917	0.792	0.799	0.793	0.794	0.767	0.810	6.61
7)	I	Acenaphthene-d10	ISTD							
8)	S	2-Fluorobiphenyl	2.440	2.586	2.776	2.742	2.902	2.930	2.729	6.88
9)	T	Acenaphthylene	2.321	2.405	2.593	2.643	2.794	2.834	2.598	7.89
10)	MC	Acenaphthene	1.657	1.717	1.744	1.750	1.802	1.794	1.744	3.07
11)	T	Fluorene	1.415	1.496	1.650	1.632	1.819	1.814	1.638	9.99
12)	I	Phenanthrene-d10	ISTD							
13)	T	Phenanthrene	1.010	1.015	1.172	1.142	1.306	1.327	1.162	11.75
14)	T	Anthracene	1.278	1.294	1.333	1.405	1.474	1.465	1.375	6.22
15)	S	o-Terphenyl	1.674	1.828	1.616	1.657	1.539	1.555	1.645	6.36
16)	TC	Fluoranthene	1.523	1.519	1.628	1.615	1.732	1.684	1.617	5.27
17)	I	Chrysene-d12	ISTD							
18)	S	Terphenyl-d14	1.345	1.547	1.424	1.461	1.412	1.544	1.456	5.44
19)	M	Pyrene	3.847	4.617	3.932	4.156	3.949	4.264	4.128	6.92
20)	T	Benzo[a]anthracene	1.207	1.008	1.312	1.248	1.505	1.522	1.300	14.90
21)	T	Chrysene	2.101	2.031	1.994	1.982	1.958	1.981	2.008	2.56
22)	I	Perylene-d12	ISTD							
23)	T	Benzo[b]fluoranthen	1.171	1.020	1.418	1.489	1.766	1.877	1.457	22.71
24)	T	Benzo[k]fluoranthen	2.161	2.561	2.534	2.354	2.314	2.401	2.387	6.20
25)	TC	Benzo[a]pyrene	1.391	1.530	1.654	1.589	1.721	1.760	1.608	8.42
26)	T	Indeno[1,2,3-cd]pyr	1.910	1.684	1.570	1.572	1.600	1.507	1.640	8.78
27)	T	Dibenz[a,h]anthrace	0.933	0.880	0.853	0.837	0.886	0.807	0.866	5.04
28)	T	Benzo[g,h,i]perylen	2.241	2.010	1.654	1.639	1.560	1.468	1.762	16.93

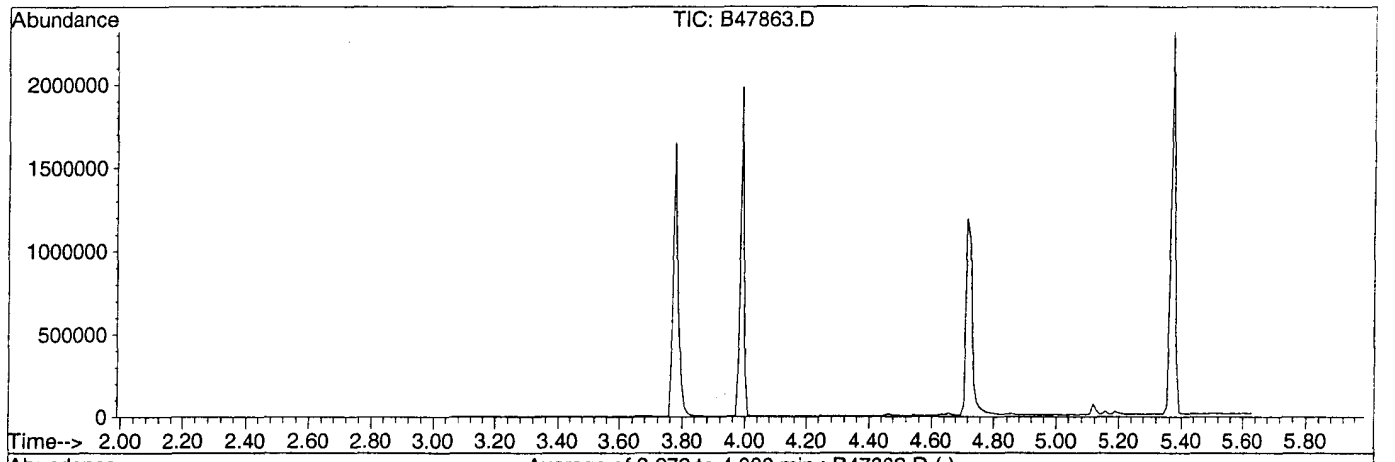
(#) = Out of Range ### Number of calibration levels exceeded format ###

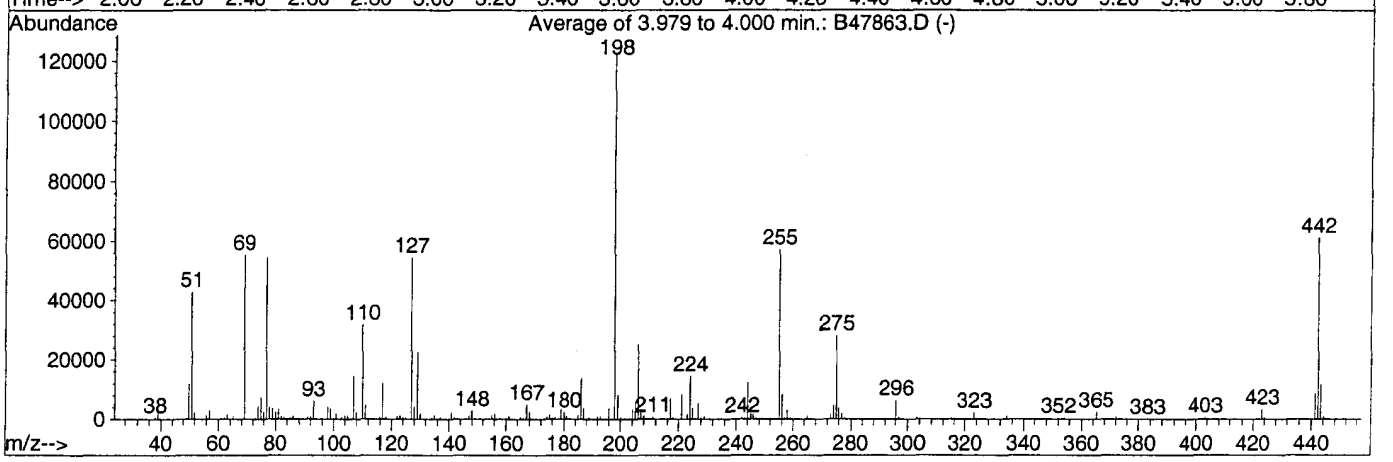
DFTPP

Data File : C:\HPCHEM\1\data\1B031105\B47863.D
Acq On : 03/11/05 12:03
Sample : STUNB48
Misc : S05018
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 C TUNE

Vial: 1
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

CTP 3/11/05





AutoFind: Scans 91, 92, 93; Background Corrected with Scan 88

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.0	42918	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.1	55342	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	44.4	54446	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	122611	PASS
199	198	5	9	6.7	8224	PASS
275	198	10	30	23.0	28145	PASS
365	198	1	100	2.0	2436	PASS
441	443	0.01	100	74.9	8692	PASS
442	198	40	100	49.8	61035	PASS
443	442	17	23	19.0	11608	PASS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47864.D Vial: 2
Acq On : 03/11/05 12:15 Operator: CTP/BP CTP 3/11/05
Sample : SSTD010B55 Inst : HP-MSB
Misc : SIM S04124 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 11 13:54 2005 Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	10506	0.40	ng	0.00
2) Naphthalene-d8	7.76	136	19525	0.40	ng	0.00
7) Acenaphthene-d10	10.72	164	9557	0.40	ng	0.00
12) Phenanthrene-d10	13.26	188	8823	0.40	ng	0.00
17) Chrysene-d12	17.83	240	4244	0.40	ng	0.00
22) Perylene-d12	20.12	264	2706	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.80	82	2525m	0.10	ng/ul	0.09
Spiked Amount 1.000			Recovery	=	10.00%	
8) 2-Fluorobiphenyl	9.60	172	5830	0.09	ng/ul	0.01
Spiked Amount 1.000			Recovery	=	9.00%	
15) o-Terphenyl	13.99	230	3693	0.10	ng	0.00
Spiked Amount 1.000			Recovery	=	10.00%	
18) Terphenyl-d14	16.04	244	1427	0.09	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	9.00%	

Target Compounds							Qvalue
4) Naphthalene	7.79	128	8757	0.12	ng		98
5) 2-Methylnaphthalene	8.94	141	2351	0.09	ng	#	100
6) 1-Methylnaphthalene	9.11	142	4477	0.11	ng		99
9) Acenaphthylene	10.47	152	5545	0.09	ng	#	100
10) Acenaphthene	10.78	153	3959	0.10	ng		99
11) Fluorene	11.66	166	3381	0.09	ng		94
13) Phenanthrene	13.30	178	2228	0.09	ng	#	99
14) Anthracene	13.38	178	2818	0.10	ng	#	97
16) Fluoranthene	15.35	202	3360	0.09	ng	#	99
19) Pyrene	15.73	202	4082	0.10	ng	#	99
20) Benzo[a]anthracene	17.80	228	1281	0.09	ng	#	97
21) Chrysene	17.87	228	2229	0.11	ng	#	98
23) Benzo[b]fluoranthene	19.56	252	792	0.08	ng	#	97
24) Benzo[k]fluoranthene	19.59	252	1462	0.09	ng	#	81
25) Benzo[a]pyrene	20.05	252	941	0.08	ng	#	76
26) Indeno[1,2,3-cd]pyrene	21.89	276	1292m	0.12	ng		
27) Dibenz[a,h]anthracene	21.92	278	631	0.11	ng		87
28) Benzo[g,h,i]perylene	22.36	276	1516	0.14	ng		98

(#) = qualifier out of range (m) = manual integration

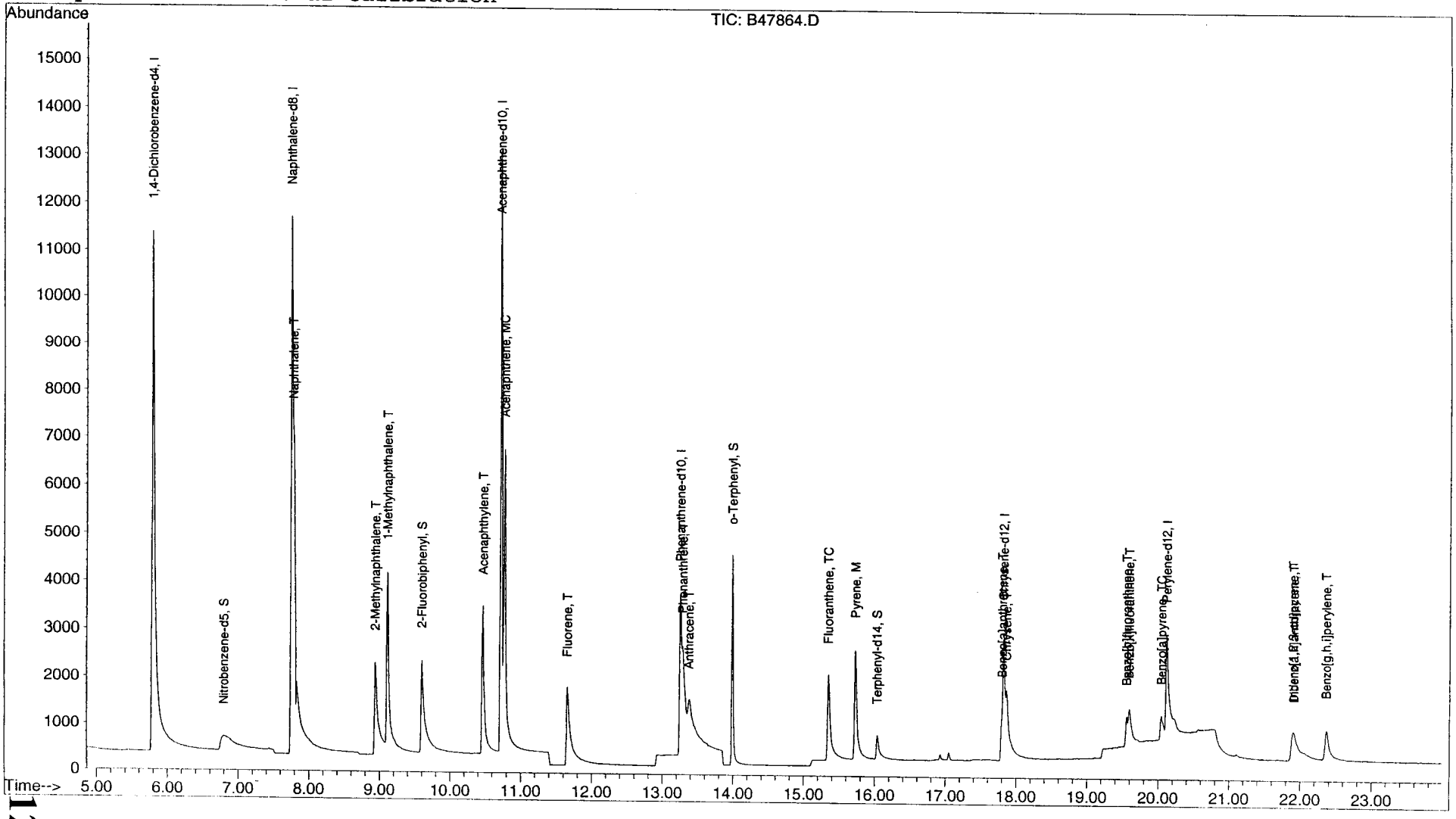
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47864.D
Acq On : 03/11/05 12:15
Sample : SSTD010B55
Misc : SIM S04124
MS Integration Params: rteint.p
Quant Time: Mar 11 13:54 2005

Vial: 2
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 15:31:43 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47865.D Vial: 3
Acq On : 03/11/05 12:47 Operator: CTP/BP CTP 3/11/05
Sample : SSTD020B55 Inst : HP-MSB
Misc : SIM S04125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 11 13:56 2005 Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	8652	0.40	ng	0.00
2) Naphthalene-d8	7.76	136	19802	0.40	ng	0.00
7) Acenaphthene-d10	10.72	164	7879	0.40	ng	0.00
12) Phenanthrene-d10	13.26	188	6861	0.40	ng	0.01
17) Chrysene-d12	17.83	240	2654	0.40	ng	0.01
22) Perylene-d12	20.12	264	1418	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.77	82	4928m	0.19	ng/ul	0.06
Spiked Amount 1.000			Recovery	=	19.00%	
8) 2-Fluorobiphenyl	9.60	172	10188	0.19	ng/ul	0.01
Spiked Amount 1.000			Recovery	=	19.00%	
15) o-Terphenyl	13.99	230	6271	0.23	ng	0.00
Spiked Amount 1.000			Recovery	=	23.00%	
18) Terphenyl-d14	16.04	244	2053	0.22	ng/ul	0.01
Spiked Amount 1.000			Recovery	=	22.00%	

Target Compounds							Qvalue
4) Naphthalene	7.79	128	15068	0.20	ng		99
5) 2-Methylnaphthalene	8.94	141	4877m	0.19	ng		
6) 1-Methylnaphthalene	9.11	142	7844	0.20	ng		99
9) Acenaphthylene	10.46	152	9476	0.19	ng	#	100
10) Acenaphthene	10.78	153	6763	0.20	ng		98
11) Fluorene	11.66	166	5893m	0.18	ng		
13) Phenanthrene	13.30	178	3481	0.17	ng	#	99
14) Anthracene	13.39	178	4438	0.19	ng	#	96
16) Fluoranthene	15.35	202	5211	0.19	ng	#	100
19) Pyrene	15.73	202	6127	0.23	ng	#	96
20) Benzo[a]anthracene	17.81	228	1338	0.15	ng	#	98
21) Chrysene	17.87	228	2695	0.20	ng	#	97
23) Benzo[b]fluoranthene	19.56	252	723	0.14	ng	#	93
24) Benzo[k]fluoranthene	19.60	252	1816	0.20	ng	#	97
25) Benzo[a]pyrene	20.05	252	1085	0.18	ng	#	81
26) Indeno[1,2,3-cd]pyrene	21.90	276	1194m	0.21	ng		
27) Dibenz[a,h]anthracene	21.92	278	624	0.21	ng		86
28) Benzo[g,h,i]perylene	22.37	276	1425	0.24	ng		97

(#) = qualifier out of range (m) = manual integration

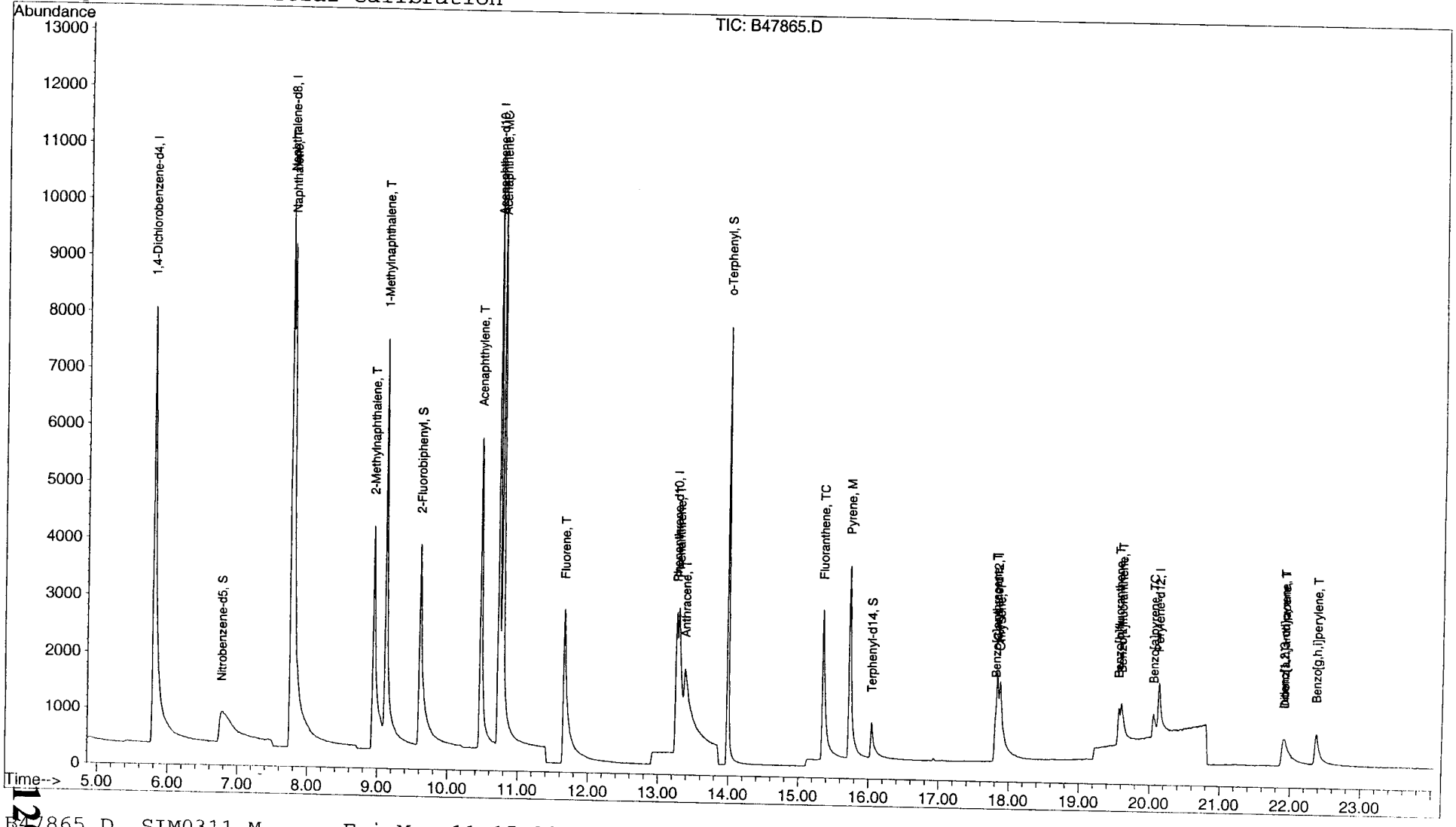
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47865.D
Acq On : 03/11/05 12:47
Sample : SSTD020B55
Misc : SIM S04125
MS Integration Params: rteint.p
Quant Time: Mar 11 13:56 2005

Vial: 3
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 15:31:43 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47866.D Vial: 4
Acq On : 03/11/05 13:18 Operator: CTP/BP
Sample : SSTD050B55 Inst : HP-MSB
Misc : SIM S04126 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 11 13:53 2005 Quant Results File: SIM0311.RES

CTP 3/11/05

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	9764	0.40	ng	0.00
2) Naphthalene-d8	7.76	136	20890	0.40	ng	0.00
7) Acenaphthene-d10	10.72	164	8288	0.40	ng	0.00
12) Phenanthrene-d10	13.25	188	8747	0.40	ng	0.00
17) Chrysene-d12	17.82	240	4158	0.40	ng	0.00
22) Perylene-d12	20.12	264	2352	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.71	82	13659	0.50	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	50.00%	
8) 2-Fluorobiphenyl	9.59	172	28763	0.50	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	50.00%	
15) o-Terphenyl	13.99	230	17673	0.50	ng	0.00
Spiked Amount 1.000			Recovery	=	50.00%	
18) Terphenyl-d14	16.03	244	7402	0.50	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	50.00%	

Target Compounds							Qvalue
4) Naphthalene	7.79	128	40241	0.50	ng		100
5) 2-Methylnaphthalene	8.93	141	13585	0.50	ng	#	100
6) 1-Methylnaphthalene	9.11	142	20859	0.50	ng		100
9) Acenaphthylene	10.46	152	26863	0.50	ng	#	100
10) Acenaphthene	10.78	153	18070	0.50	ng		100
11) Fluorene	11.65	166	17089	0.50	ng		100
13) Phenanthrene	13.29	178	12813	0.50	ng	#	100
14) Anthracene	13.37	178	14575	0.50	ng	#	99
16) Fluoranthene	15.35	202	17796	0.50	ng	#	100
19) Pyrene	15.73	202	20435	0.50	ng	#	100
20) Benzo[a]anthracene	17.79	228	6819	0.50	ng	#	100
21) Chrysene	17.87	228	10362	0.50	ng	#	100
23) Benzo[b]fluoranthene	19.55	252	4169	0.50	ng	#	100
24) Benzo[k]fluoranthene	19.58	252	7449	0.50	ng	#	97
25) Benzo[a]pyrene	20.03	252	4864	0.50	ng	#	100
26) Indeno[1,2,3-cd]pyrene	21.88	276	4615m	0.50	ng		
27) Dibenz[a,h]anthracene	21.90	278	2507	0.50	ng		99
28) Benzo[g,h,i]perylene	22.36	276	4862	0.50	ng		100

(#) = qualifier out of range (m) = manual integration

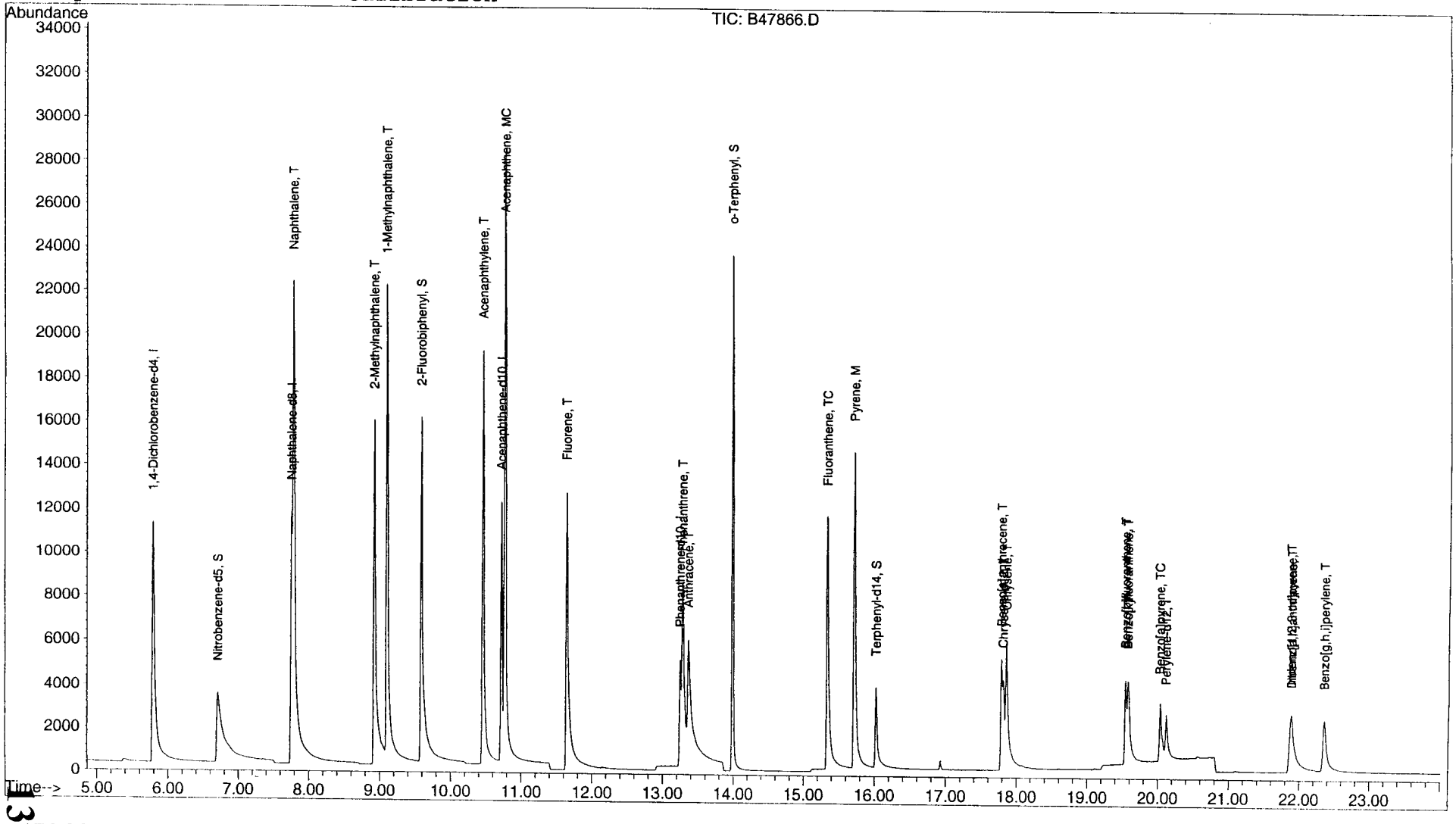
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47866.D
Acq On : 03/11/05 13:18
Sample : SSTD050B55
Misc : SIM S04126
MS Integration Params: rteint.p
Quant Time: Mar 11 13:53 2005

Vial: 4
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 15:31:43 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47867.D
Acq On : 03/11/05 13:49
Sample : SSTD080B55
Misc : SIM S04127
MS Integration Params: rteint.p
Quant Time: Mar 11 14:13 2005

Vial: 5
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

CTP 3/11/05

Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.80	152	7588	0.40 ng	0.00
2) Naphthalene-d8	7.76	136	16220	0.40 ng	0.00
7) Acenaphthene-d10	10.72	164	6497	0.40 ng	0.00
12) Phenanthrene-d10	13.26	188	6510	0.40 ng	0.00
17) Chrysene-d12	17.83	240	2810	0.40 ng	0.00
22) Perylene-d12	20.12	264	1551	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.70	82	17244	0.81 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 81.00%	
8) 2-Fluorobiphenyl	9.59	172	35634	0.79 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 79.00%	
15) o-Terphenyl	13.99	230	21575	0.82 ng	0.00
Spiked Amount 1.000			Recovery	= 82.00%	
18) Terphenyl-d14	16.03	244	8213	0.82 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 82.00%	

Target Compounds						Qvalue
4) Naphthalene	7.79	128	50248	0.80 ng		100
5) 2-Methylnaphthalene	8.93	141	17530	0.83 ng	#	100
6) 1-Methylnaphthalene	9.11	142	25715	0.79 ng		97
9) Acenaphthylene	10.46	152	34349	0.82 ng	#	99
10) Acenaphthene	10.78	153	22745	0.80 ng		99
11) Fluorene	11.65	166	21207	0.79 ng		100
13) Phenanthrene	13.29	178	14874	0.78 ng	#	100
14) Anthracene	13.37	178	18287	0.84 ng	#	99
16) Fluoranthene	15.34	202	21029	0.79 ng	#	99
19) Pyrene	15.72	202	23359	0.85 ng	#	96
20) Benzo[a]anthracene	17.79	228	7011	0.76 ng	#	100
21) Chrysene	17.86	228	11140	0.80 ng	#	99
23) Benzo[b]fluoranthene	19.55	252	4619	0.84 ng	#	92
24) Benzo[k]fluoranthene	19.59	252	7301	0.74 ng	#	96
25) Benzo[a]pyrene	20.04	252	4928	0.77 ng	#	93
26) Indeno[1,2,3-cd]pyrene	21.87	276	4876m	0.80 ng		
27) Dibenz[a,h]anthracene	21.90	278	2596	0.79 ng		97
28) Benzo[g,h,i]perylene	22.36	276	5085	0.79 ng		99

(#) = qualifier out of range (m) = manual integration

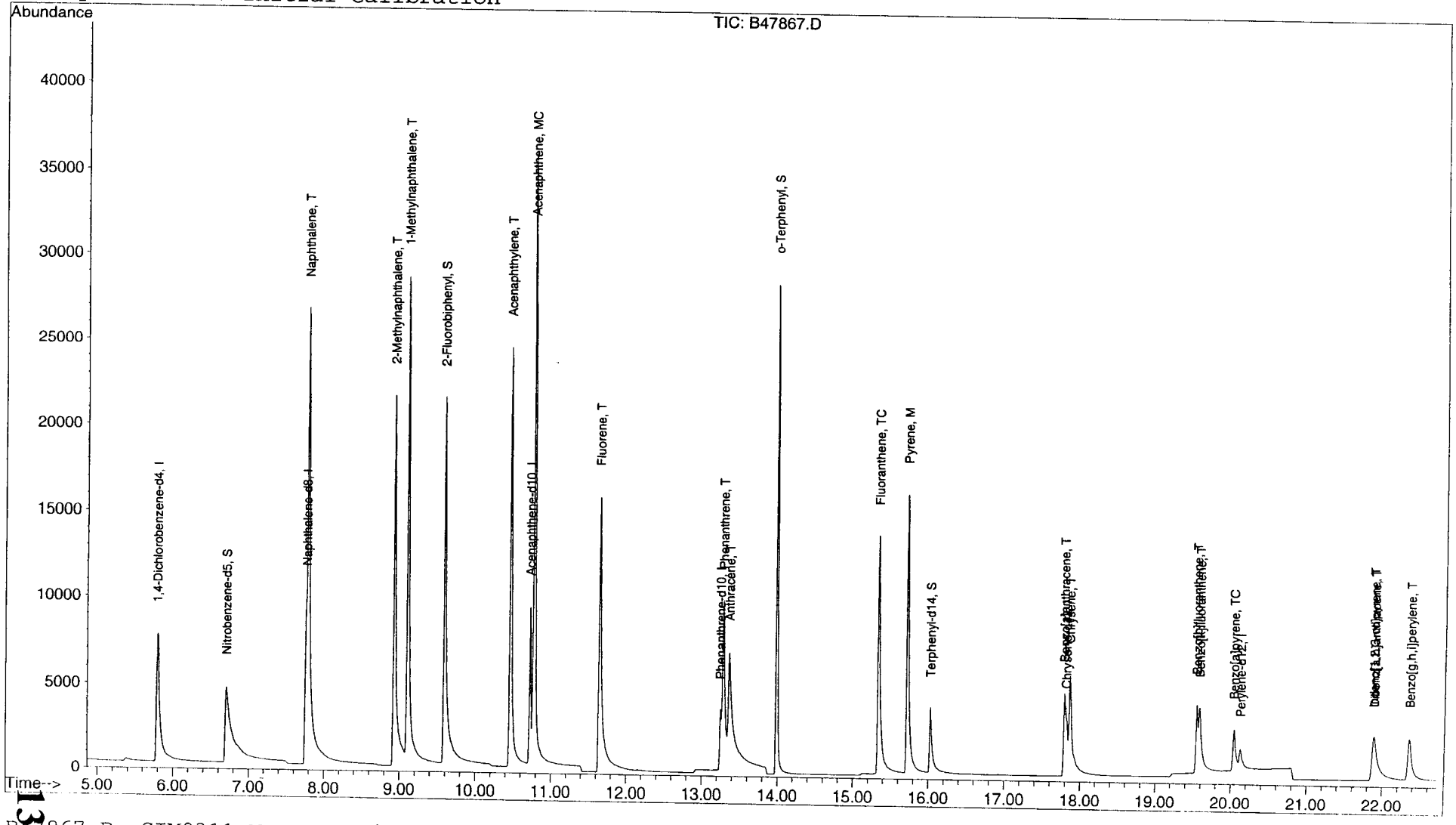
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47867.D
Acq On : 03/11/05 13:49
Sample : SSTD080B55
Misc : SIM S04127
MS Integration Params: rteint.p
Quant Time: Mar 11 14:13 2005

Vial: 5
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 15:31:43 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47868.D
Acq On : 03/11/05 14:20
Sample : SSTD120B55
Misc : SIM S04128
MS Integration Params: rteint.p
Quant Time: Mar 11 14:56 2005

Vial: 6
Operator: CTP/BP CTP 3/11/05
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	9061	0.40	ng	0.00
2) Naphthalene-d8	7.75	136	18946	0.40	ng	0.00
7) Acenaphthene-d10	10.72	164	7337	0.40	ng	0.00
12) Phenanthrene-d10	13.25	188	8236	0.40	ng	0.00
17) Chrysene-d12	17.82	240	4116	0.40	ng	0.00
22) Perylene-d12	20.12	264	2198	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.68	82	33918	1.37	ng/ul	-0.03
Spiked Amount 1.000			Recovery	=	137.00%	
8) 2-Fluorobiphenyl	9.59	172	63878	1.25	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	125.00%	
15) o-Terphenyl	13.99	230	38014	1.14	ng	0.00
Spiked Amount 1.000			Recovery	=	114.00%	
18) Terphenyl-d14	16.02	244	17435	1.19	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	119.00%	

Target Compounds							Qvalue
4) Naphthalene	7.79	128	89926	1.23	ng		100
5) 2-Methylnaphthalene	8.92	141	32859	1.33	ng	#	99
6) 1-Methylnaphthalene	9.11	142	45111	1.19	ng		99
9) Acenaphthylene	10.46	152	61489	1.29	ng	#	100
10) Acenaphthene	10.78	153	39671	1.24	ng		100
11) Fluorene	11.64	166	40031	1.32	ng		98
13) Phenanthrene	13.28	178	32270	1.34	ng	#	100
14) Anthracene	13.36	178	36412	1.33	ng	#	99
16) Fluoranthene	15.34	202	42806	1.28	ng	#	100
19) Pyrene	15.72	202	48768	1.21	ng	#	81
20) Benzo[a]anthracene	17.79	228	18578	1.38	ng	#	99
21) Chrysene	17.86	228	24175	1.18	ng	#	99
23) Benzo[b]fluoranthene	19.54	252	11643	1.49	ng	#	92
24) Benzo[k]fluoranthene	19.58	252	15257	1.10	ng	#	94
25) Benzo[a]pyrene	20.03	252	11350	1.25	ng	#	91
26) Indeno[1,2,3-cd]pyrene	21.86	276	10551m	1.22	ng		
27) Dibenz[a,h]anthracene	21.88	278	5840	1.25	ng		98
28) Benzo[g,h,i]perylene	22.35	276	10285	1.13	ng		99

(#) = qualifier out of range (m) = manual integration

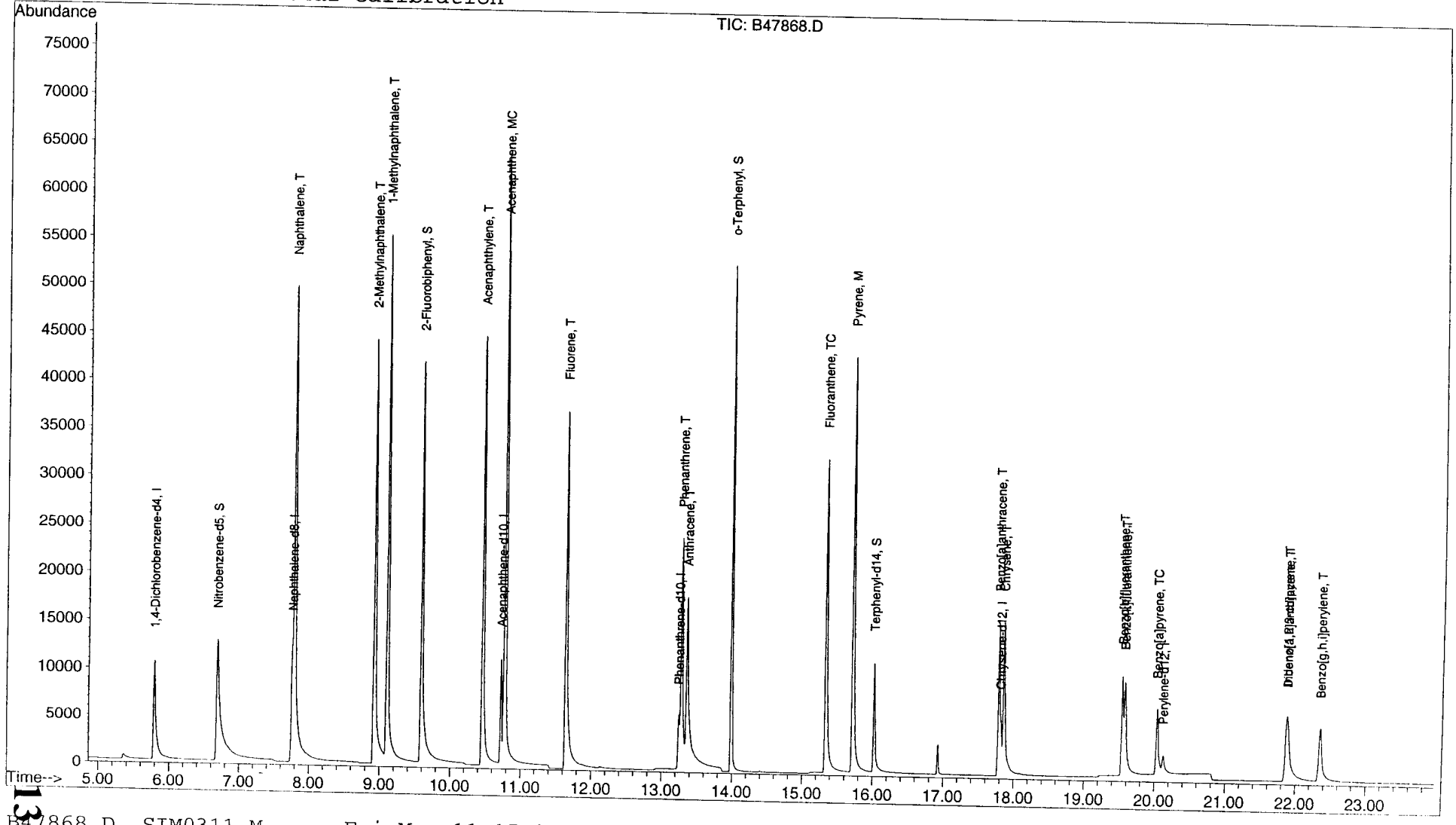
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47868.D
Acq On : 03/11/05 14:20
Sample : SSTD120B55
Misc : SIM S04128
MS Integration Params: rteint.p
Quant Time: Mar 11 14:56 2005

Vial: 6
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 15:31:43 2005
Response via : Initial Calibration



B47868.D SIM0311.M Fri Mar 11 15:33:03 2005

135

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47869.D
Acq On : 03/11/05 14:51
Sample : SSTD160B55
Misc : SIM S04129
MS Integration Params: rteint.p
Quant Time: Mar 11 15:31 2005

Vial: 7
Operator: CTP/BP CTP 3/11/05
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	10252	0.40 ng	0.00
2) Naphthalene-d8	7.75	136	21229	0.40 ng	0.00
7) Acenaphthene-d10	10.72	164	7925	0.40 ng	0.00
12) Phenanthrene-d10	13.24	188	8696	0.40 ng	0.00
17) Chrysene-d12	17.82	240	3814	0.40 ng	0.00
22) Perylene-d12	20.12	264	1788	0.40 ng	0.00
System Monitoring Compounds					
3) Nitrobenzene-d5	6.68	82	51557	1.86 ng/ul	-0.03
Spiked Amount 1.000			Recovery	= 186.00%	
8) 2-Fluorobiphenyl	9.58	172	92869	1.69 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 169.00%	
15) o-Terphenyl	13.99	230	54094	1.54 ng	0.00
Spiked Amount 1.000			Recovery	= 154.00%	
18) Terphenyl-d14	16.02	244	23550	1.73 ng/ul	0.00
Spiked Amount 1.000			Recovery	= 173.00%	

Target Compounds						Qvalue
4) Naphthalene	7.78	128	132626	1.62 ng		100
5) 2-Methylnaphthalene	8.92	141	49492	1.79 ng	#	100
6) 1-Methylnaphthalene	9.11	142	65150	1.54 ng		99
9) Acenaphthylene	10.46	152	89843	1.75 ng	#	100
10) Acenaphthene	10.78	153	56882	1.65 ng		100
11) Fluorene	11.64	166	57504	1.76 ng		100
13) Phenanthrene	13.28	178	46152	1.81 ng	#	100
14) Anthracene	13.36	178	50955	1.76 ng	#	100
16) Fluoranthene	15.33	202	58562	1.66 ng	#	100
19) Pyrene	15.72	202	65058	1.74 ng	#	92
20) Benzo[a]anthracene	17.79	228	23223	1.86 ng	#	100
21) Chrysene	17.86	228	30227	1.59 ng	#	99
23) Benzo[b]fluoranthene	19.54	252	13422	2.12 ng	#	92
24) Benzo[k]fluoranthene	19.58	252	17173	1.52 ng	#	94
25) Benzo[a]pyrene	20.03	252	12586	1.70 ng	#	90
26) Indeno[1,2,3-cd]pyrene	21.86	276	10778m	1.54 ng		
27) Dibenz[a,h]anthracene	21.89	278	5773	1.51 ng		98
28) Benzo[g,h,i]perylene	22.35	276	10501	1.42 ng		99

(#) = qualifier out of range (m) = manual integration

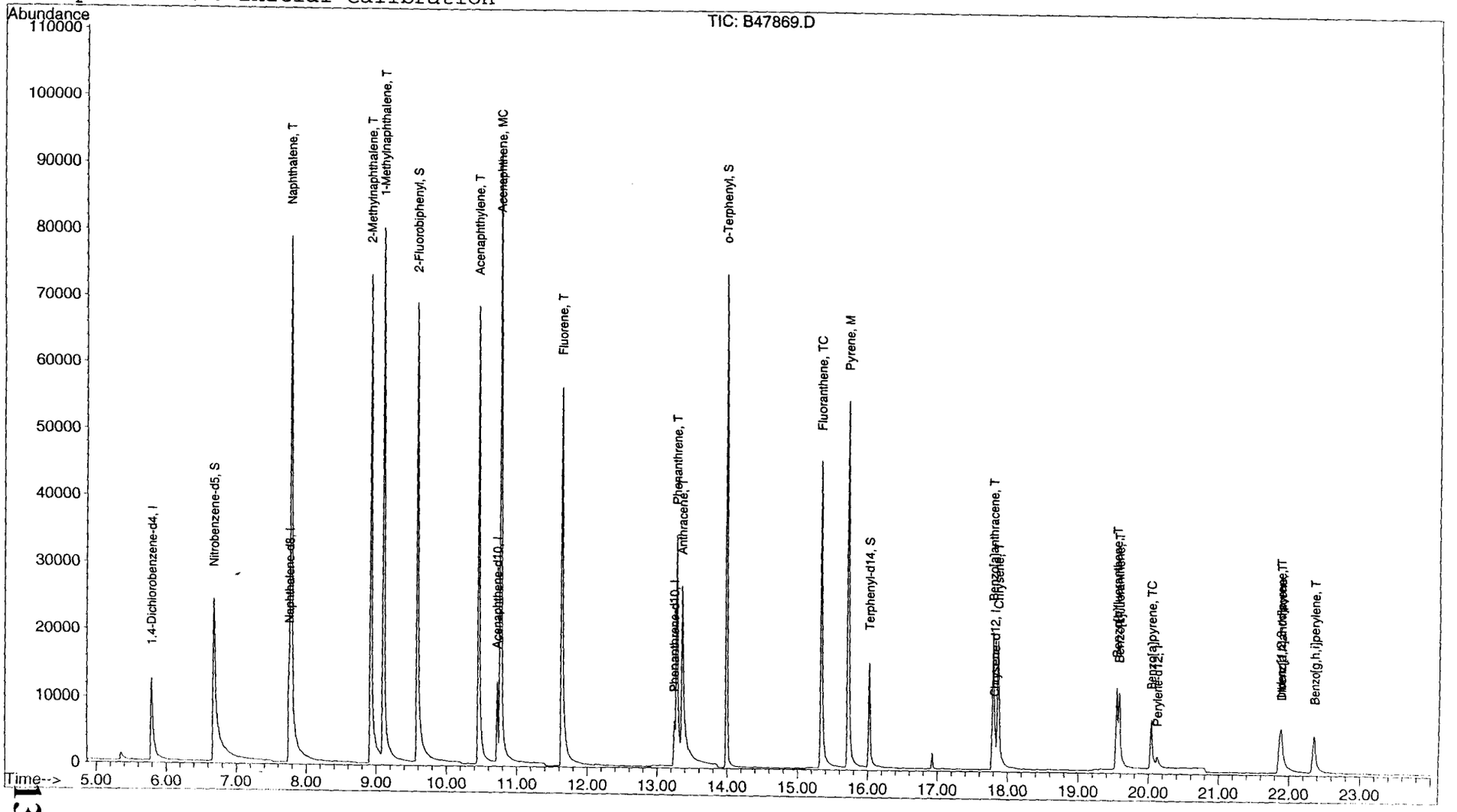
Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47869.D
Acq On : 03/11/05 14:51
Sample : SSTD160B55
Misc : SIM S04129
MS Integration Params: rteint.p
Quant Time: Mar 11 15:31 2005

Vial: 7
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 15:31:43 2005
Response via : Initial Calibration



B47869.D SIM0311.M Fri Mar 11 15:33:06 2005

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031105\B47871.D
Acq On : 03/11/05 15:54
Sample : SSTD050B56
Misc : ICV S03373
MS Integration Params: rteint.p
Quant Time: Mar 15 12:45 2005

Vial: 8
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

CTP 3/15/05

Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.80	152	8225	0.40	ng	0.00
2) Naphthalene-d8	7.75	136	17598	0.40	ng	0.00
7) Acenaphthene-d10	10.72	164	7089	0.40	ng	0.00
12) Phenanthrene-d10	13.25	188	7159	0.40	ng	0.00
17) Chrysene-d12	17.82	240	3296	0.40	ng	0.00
22) Perylene-d12	20.12	264	1831	0.40	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	6.72	82	11720	0.49	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	49.00%	
8) 2-Fluorobiphenyl	9.59	172	23876	0.49	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	49.00%	
15) o-Terphenyl	13.99	230	15206	0.52	ng	0.00
Spiked Amount 1.000			Recovery	=	52.00%	
18) Terphenyl-d14	16.03	244	5769	0.48	ng/ul	0.00
Spiked Amount 1.000			Recovery	=	48.00%	

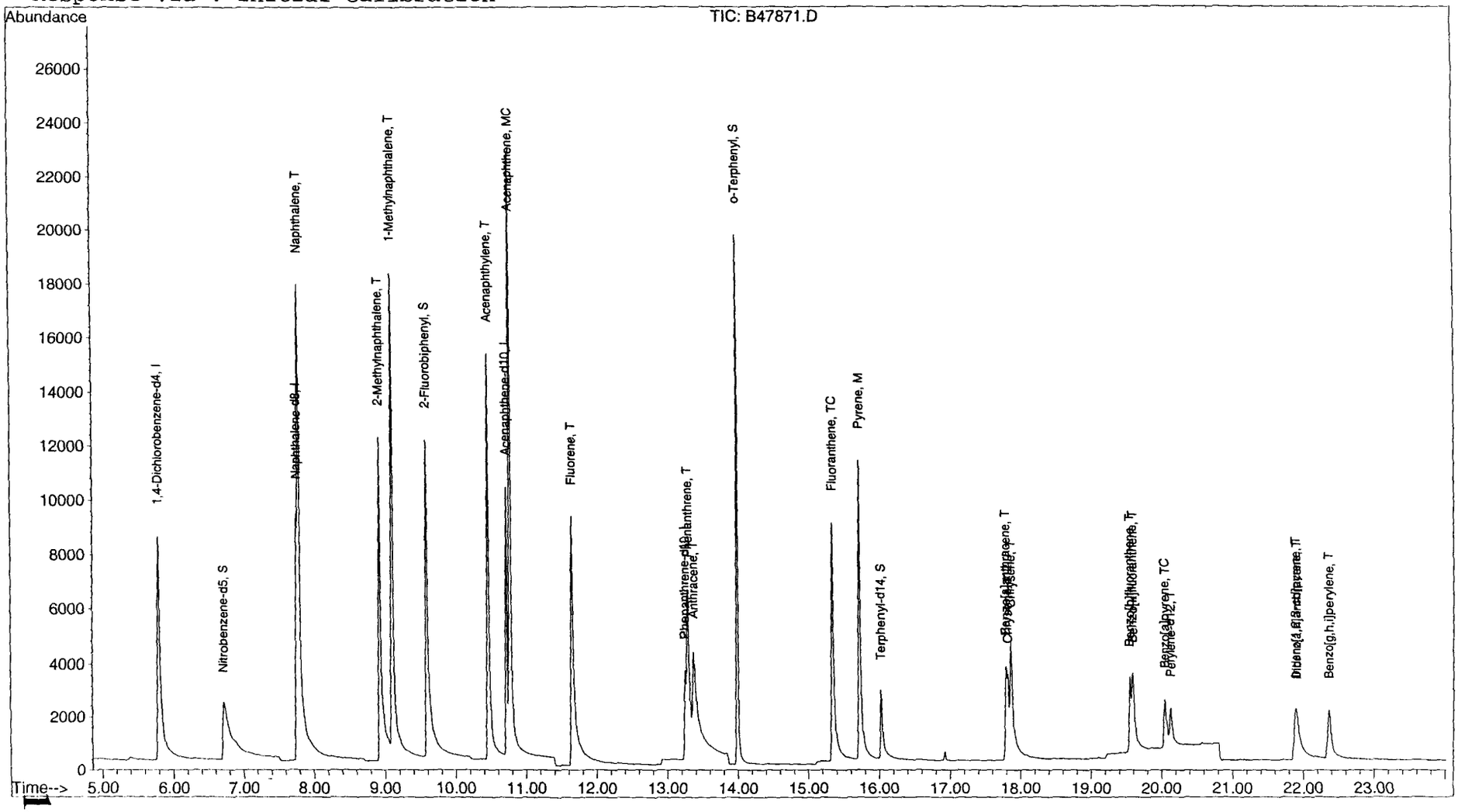
Target Compounds						Qvalue
4) Naphthalene	7.79	128	34094	0.49	ng	100
5) 2-Methylnaphthalene	8.93	141	11056	0.47	ng #	99
6) 1-Methylnaphthalene	9.10	142	17743	0.50	ng	99
9) Acenaphthylene	10.46	152	22686	0.49	ng #	100
10) Acenaphthene	10.78	153	15511	0.50	ng	99
11) Fluorene	11.65	166	14284	0.49	ng	99
13) Phenanthrene	13.29	178	9938	0.48	ng #	100
14) Anthracene	13.37	178	11770	0.48	ng #	100
16) Fluoranthene	15.35	202	14400	0.50	ng #	99
19) Pyrene	15.73	202	16761	0.49	ng #	99
20) Benzo[a]anthracene	17.79	228	5256	0.49	ng #	97
21) Chrysene	17.86	228	8400	0.51	ng #	99
23) Benzo[b]fluoranthene	19.55	252	3416	0.51	ng #	92
24) Benzo[k]fluoranthene	19.58	252	6049	0.55	ng #	89
25) Benzo[a]pyrene	20.04	252	3982	0.54	ng #	98
26) Indeno[1,2,3-cd]pyrene	21.88	276	3839m	0.51	ng	
27) Dibenz[a,h]anthracene	21.90	278	1956	0.49	ng	96
28) Benzo[g,h,i]perylene	22.36	276	3993	0.50	ng	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47871.D Vial: 8
Acq On : 03/11/05 15:54 Operator: CTP/BP
Sample : SSTD050B56 Inst : HP-MSB
Misc : ICV S03373 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 12:45 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1B031105\B47871.D Vial: 8
Acq On : 03/11/05 15:54 Operator: CTP/BP
Sample : SSTD050B56 Inst : HP-MSB
Misc : ICV S03373 Multiplr: 1.00
MS Integration Params: rteint.p

CTP 3/15/05

Method : C:\HPCHEM\1\DATA\1B031105\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

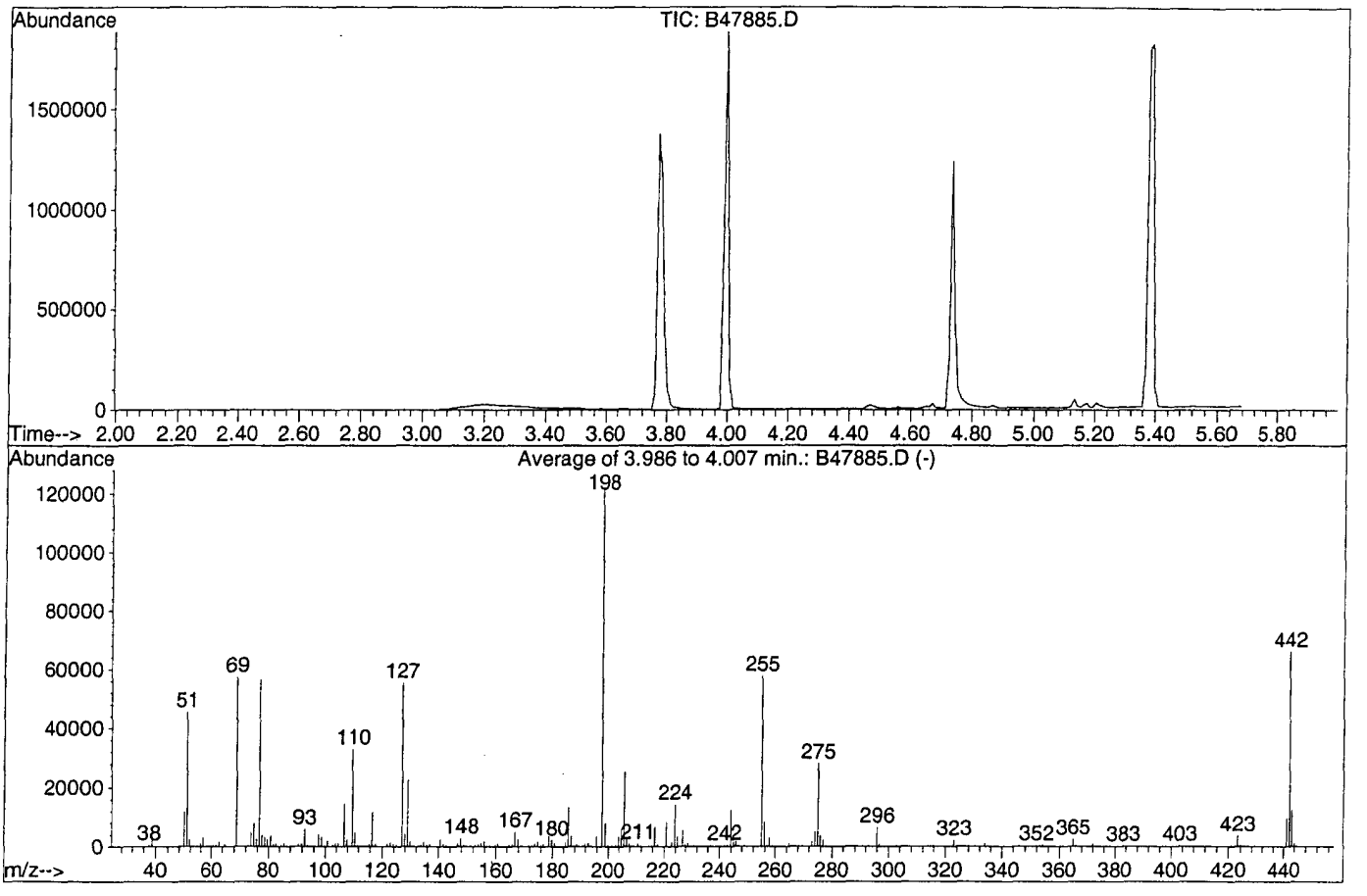
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	84	0.00
2	I	Naphthalene-d8	1.000	1.000	0.0	84	0.00
3	S	Nitrobenzene-d5	0.546	0.533	2.4	86	0.00
4	T	Naphthalene	1.592	1.550	2.6	85	0.00
5	T	2-Methylnaphthalene	0.533	0.503	5.6	81	0.00
6	T	1-Methylnaphthalene	0.810	0.807	0.4	85	0.00
7	I	Acenaphthene-d10	1.000	1.000	0.0	86	0.00
8	S	2-Fluorobiphenyl	2.729	2.694	1.3	83	0.00
9	T	Acenaphthylene	2.598	2.560	1.5	84	0.00
10	MC	Acenaphthene	1.744	1.750	-0.3	86	0.00
11	T	Fluorene	1.638	1.612	1.6	84	0.00
12	I	Phenanthrene-d10	1.000	1.000	0.0	82	0.00
13	T	Phenanthrene	1.162	1.111	4.4	78	0.00
14	T	Anthracene	1.375	1.315	4.4	81	0.00
15	S	o-Terphenyl	1.645	1.699	-3.3	86	0.00
16	TC	Fluoranthene	1.617	1.609	0.5	81	0.00
17	I	Chrysene-d12	1.000	1.000	0.0	79	0.00
18	S	Terphenyl-d14	1.456	1.400	3.8	78	0.00
19	M	Pyrene	4.128	4.068	1.5	82	0.00
20	T	Benzo[a]anthracene	1.300	1.276	1.8	77	0.00
21	T	Chrysene	2.008	2.039	-1.5	81	0.00
22	I	Perylene-d12	1.000	1.000	0.0	78	0.00
23	T	Benzo[b]fluoranthene	1.457	1.493	-2.5	82	0.00
24	T	Benzo[k]fluoranthene	2.387	2.643	-10.7	81	0.00
25	TC	Benzo[a]pyrene	1.608	1.740	-8.2	82	0.00
26	T	Indeno[1,2,3-cd]pyrene	1.640	1.677	-2.3	83	0.00
27	T	Dibenz[a,h]anthracene	0.866	0.855	1.3	78	0.00
28	T	Benzo[g,h,i]perylene	1.762	1.745	1.0	82	0.00

DFTPP

Data File : C:\HPCHEM\1\data\1B031505\B47885.D
Acq On : 03/15/05 14:36
Sample : STUNB49
Misc : S05018
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 C TUNE

Vial: 1
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

CTP 3/15/05



AutoFind: Scans 92, 93, 94; Background Corrected with Scan 89

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.4	45591	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.1	57439	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	45.5	55508	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	121987	PASS
199	198	5	9	6.6	8046	PASS
275	198	10	30	23.1	28141	PASS
365	198	1	100	2.1	2559	PASS
441	443	0.01	100	77.4	9709	PASS
442	198	40	100	54.2	66158	PASS
443	442	17	23	19.0	12549	PASS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\1B031505\B47886.D
Acq On : 03/15/05 14:48
Sample : SSTD050B57
Misc : SIM S04126
MS Integration Params: rteint.p
Quant Time: Mar 15 15:13 2005

Vial: 2
Operator: CTP/BP
Inst : HP-MSB
Multiplr: 1.00

CTP 3/15/05

Quant Results File: SIM0311.RES

Quant Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration
DataAcq Meth : SIM0311

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	8289	0.40 ng	-0.02
2) Naphthalene-d8	7.73	136	18386	0.40 ng	-0.03
7) Acenaphthene-d10	10.70	164	7413	0.40 ng	-0.02
12) Phenanthrene-d10	13.23	188	7875	0.40 ng	-0.02
17) Chrysene-d12	17.80	240	3802	0.40 ng	-0.02
22) Perylene-d12	20.10	264	2219	0.40 ng	-0.01
System Monitoring Compounds					
3) Nitrobenzene-d5	6.70	82	10461	0.42 ng/ul	-0.01
Spiked Amount 1.000			Recovery	= 42.00%	
8) 2-Fluorobiphenyl	9.57	172	24189	0.48 ng/ul	-0.02
Spiked Amount 1.000			Recovery	= 48.00%	
15) o-Terphenyl	13.97	230	15118	0.47 ng	-0.02
Spiked Amount 1.000			Recovery	= 47.00%	
18) Terphenyl-d14	16.01	244	6528	0.47 ng/ul	-0.02
Spiked Amount 1.000			Recovery	= 47.00%	

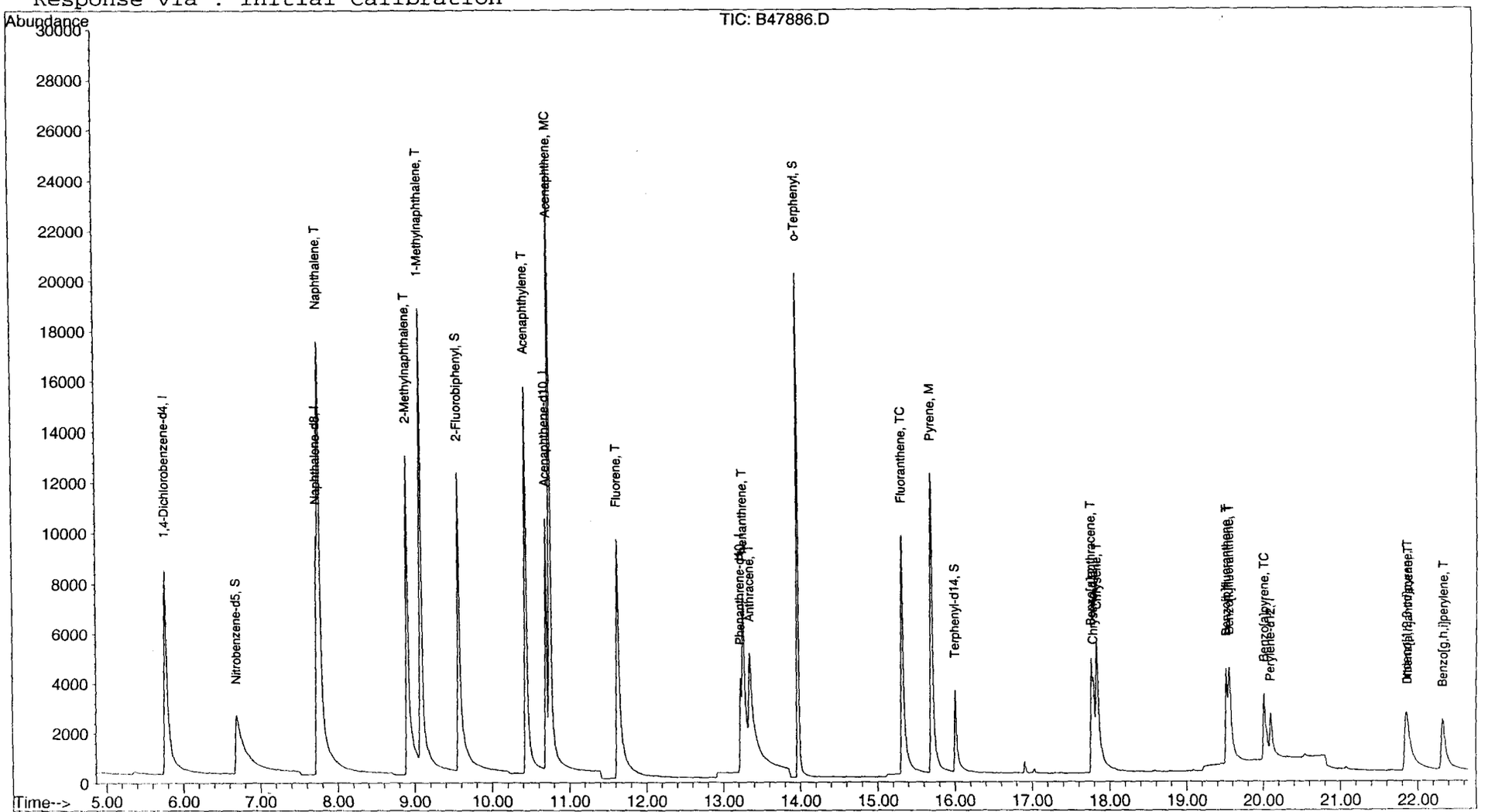
Target Compounds						Qvalue
4) Naphthalene	7.77	128	34411	0.47 ng		99
5) 2-Methylnaphthalene	8.91	141	11869	0.48 ng	#	99
6) 1-Methylnaphthalene	9.08	142	18227	0.49 ng		98
9) Acenaphthylene	10.44	152	23257	0.48 ng	#	100
10) Acenaphthene	10.75	153	15725	0.49 ng		100
11) Fluorene	11.63	166	15118	0.50 ng		99
13) Phenanthrene	13.26	178	10807	0.47 ng	#	100
14) Anthracene	13.35	178	13864	0.51 ng	#	100
16) Fluoranthene	15.32	202	15553	0.49 ng	#	99
19) Pyrene	15.70	202	17927	0.46 ng	#	100
20) Benzo[a]anthracene	17.77	228	6262	0.51 ng	#	100
21) Chrysene	17.85	228	10049	0.53 ng	#	99
23) Benzo[b]fluoranthene	19.53	252	4696m	0.58 ng		
24) Benzo[k]fluoranthene	19.57	252	6900	0.52 ng	#	92
25) Benzo[a]pyrene	20.02	252	5157	0.58 ng	#	97
26) Indeno[1,2,3-cd]pyrene	21.85	276	4452m	0.49 ng		
27) Dibenz[a,h]anthracene	21.88	278	2500	0.52 ng		97
28) Benzo[g,h,i]perylene	22.32	276	4589	0.47 ng		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\1B031505\B47886.D Vial: 2
Acq On : 03/15/05 14:48 Operator: CTP/BP
Sample : SSTD050B57 Inst : HP-MSB
Misc : SIM S04126 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 15 15:13 2005 Quant Results File: SIM0311.RES

Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1B031505\B47886.D Vial: 2
Acq On : 03/15/05 14:48 Operator: CTP/BP
Sample : SSTD050B57 Inst : HP-MSB
Misc : SIM S04126 Multiplr: 1.00
MS Integration Params: rteint.p

CTP 3/15/05

Method : C:\HPCHEM\1\DATA\1B031505\SIM0311.M (RTE Integrator)
Title : SW-846 Method 8270C
Last Update : Fri Mar 11 13:52:30 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	-0.02
2	I	Naphthalene-d8	1.000	1.000	0.0	88	-0.03
3	S	Nitrobenzene-d5	0.546	0.455	16.7	77	-0.01
4	T	Naphthalene	1.592	1.497	6.0	86	-0.02
5	T	2-Methylnaphthalene	0.533	0.516	3.2	87	-0.02
6	T	1-Methylnaphthalene	0.810	0.793	2.1	87	-0.02
7	I	Acenaphthene-d10	1.000	1.000	0.0	89	-0.02
8	S	2-Fluorobiphenyl	2.729	2.610	4.4	84	-0.02
9	T	Acenaphthylene	2.598	2.510	3.4	87	-0.02
.0	MC	Acenaphthene	1.744	1.697	2.7	87	-0.02
.1	T	Fluorene	1.638	1.632	0.4	88	-0.02
.2	I	Phenanthrene-d10	1.000	1.000	0.0	90	-0.02
.3	T	Phenanthrene	1.162	1.098	5.5	84	-0.03
4	T	Anthracene	1.375	1.408	-2.4	95	-0.02
5	S	o-Terphenyl	1.645	1.536	6.6	86	-0.02
6	TC	Fluoranthene	1.617	1.580	2.3	87	-0.03
'	I	Chrysene-d12	1.000	1.000	0.0	91	-0.02
	S	Terphenyl-d14	1.456	1.374	5.6	88	-0.02
	M	Pyrene	4.128	3.772	8.6	88	-0.03
	T	Benzo[a]anthracene	1.300	1.318	-1.4	92	-0.02
	T	Chrysene	2.008	2.114	-5.3	97	-0.02
	I	Perylene-d12	1.000	1.000	0.0	94	-0.01
	T	Benzo[b]fluoranthene	1.457	1.693	-16.2	113	-0.02
	T	Benzo[k]fluoranthene	2.387	2.488	-4.2	93	-0.01
	TC	Benzo[a]pyrene	1.608	1.859	-15.6	106	-0.01
		Indeno[1,2,3-cd]pyrene	1.640	1.605	2.1	96	-0.03
		Dibenz[a,h]anthracene	0.866	0.901	-4.0	100	-0.02
		Benzo[g,h,i]perylene	1.762	1.654	6.1	94	-0.03

Out of Range SPCC's out = 0 CCC's out = 0
.D SIM0311.M Tue Mar 15 15:13:24 2005

IC DATA CHECKLIST
SW-846-9056

PROJECT #:	7765	METHOD:	9056 (SO4-)
MATRIX:	Water	Due Date:	3/21/2005

INITIAL ANALYST ASSESSMENT			
Are all standards within expiration dates for both stock and serial standards?	Y	N	NA
Are continuing calibrations compliant with method requirements?	Y	N	NA
Is blank result less than 1/2 RDL for analytes of interest?	Y	N	NA
Are all spike recoveries acceptable for the LCS (/LCSD)?	Y	N	NA
Are all requested analytes below the upper calibration limit?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
Were analyses performed such that carryover was not a problem?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	NA
Are all mistakes single lined, initialled, and dated?	Y	N	NA
Are all applicable runlog and extraction sheets signed, dated, and included?	Y	N	NA
Are all analytes to be reported indicated as such on the raw data?	Y	N	NA
Was analysis completed as instructed on the Log-in Record?	Y	N	NA
Has all data been entered into LIMS?	Y	N	NA

Analyst:	LJB		
Date:	3/15/2005	Time:	13:25

PEER REVIEW			
Are continuing calibrations compliant with method requirements?	Y	N	NA
Are all blank and QC results acceptable?	Y	N	NA
Are all analyte calculations correct and reported in the proper units?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	NA
Is the runlog completely filled out (including review signature/date)?	Y	N	NA
Was analysis completed as instructed on the Log-in Record?	Y	N	NA
Have all LIMS entries been checked for accuracy?	Y	N	NA

Reviewer:	CKM		
Date:	3/21/05	Time:	1056

IC Runlog

JJB 3/14/05

Date: ~~3/14~~ 3/11/05

Analyst: LJB

ICAL Date/Method: 020305 - Anion 020305

Acquired Method: New autosampler 010605

Analytes: (Nitrate) Nitrite Chloride Phosphate (Sulfate) Fluoride Others( )

Method Ref: SW9056 / EPA300.1

Lot #'s: Working Std: 132 P

Eluent: 131 G

	Spike Conc (ppm)		
	CCV	BKS	MS/MSD
Nitrate	5	5	2.5
Nitrite	—	—	—
Chloride	—	—	—
Phosphate	—	—	—
Sulfate	10	10	5
Fluoride	—	—	—
Others( )	—	—	—

AAL #	Result (ppm) Nitrate as N	Nitrite as N	Chloride	Phosphate as P	Sulfate	Fluoride	Others	Spike Rec %	Time	Comments
IBLK	Ø	—	—	—	Ø	—	—		10:09	
CCV	5.418				10.052				10:26	
BLK	Ø				Ø				10:49	
BKS	5.435				10.167				11:07	
7738-001	—				0.569				11:24	
-002	0.081				8.828				11:42	
-002MD	0.083				9.370				11:59	
-002MS	2.736				10.606				12:16	
-002MSD	2.617				10.423				12:34	
-003	0 — JJB 3/14/05				5.963				12:51	
-004	—				5.824				13:09	
-005	↓				5.364				13:26	
CCV	5.453				10.057				13:43	
CCB	Ø				Ø				14:01	
7738-006					9.464				14:18	
7739-001				11.863	~~9.404~~ JJB 3/14/05				14:36	
-002					25.132				14:53	
-002MD					25.479				15:10	
-003					39.511				15:28	
-004					33.344				15:45	
7765-001					4.798				16:03	
-002					8.671				16:20	
-003					7.436				16:37	
-004					3.497				16:55	
CCV	5.493				10.318				17:12	
CCB	Ø				Ø				17:30	

Reviewed by:

Analytical Sequence: 25825

IC Runlog

Date:
Analyst:
ICAL Date/Method:
Acquired Method:
Analytes: Nitrate Nitrite Chloride Phosphate Sulfate Fluoride Others(
Method Ref: SW9056 / EPA300.1
Lot #'s: Working Std:
Eluent:

same as previous page. page#30
3/14/05

	Spike Conc (ppm)		
	CCV	BKS	MS/MSD
Nitrate			
Nitrite			
Chloride			
Phosphate			
Sulfate			
Fluoride			
Others( )			

	Result (ppm)									
AAL #	Nitrate as N	Nitrite as N	Chloride	Phosphate as P	Sulfate	Fluoride	Others	Spike Rec %	Time	Comments
7765-005					6.505				17:47	
-006					8.239				18:04	
-007					7.718				18:22	
7808-004	0.732				—				18:39	
-004 10X	0.044				—				18:57	
CCV	5.440				9.687				19:14	
CCB	Ø				Ø				19:31	
BLK	Ø				Ø				19:49	
BKS					10.428				20:06	soil batch
7777-001					12.371				20:24	
-001MD					11.368				20:41	
-001MS					9.639				20:58	
-001MSD					9.275				21:16	
-002					16.913				21:33	
CCV	5.488				10.037				21:50	
CCB	Ø				Ø				22:08	

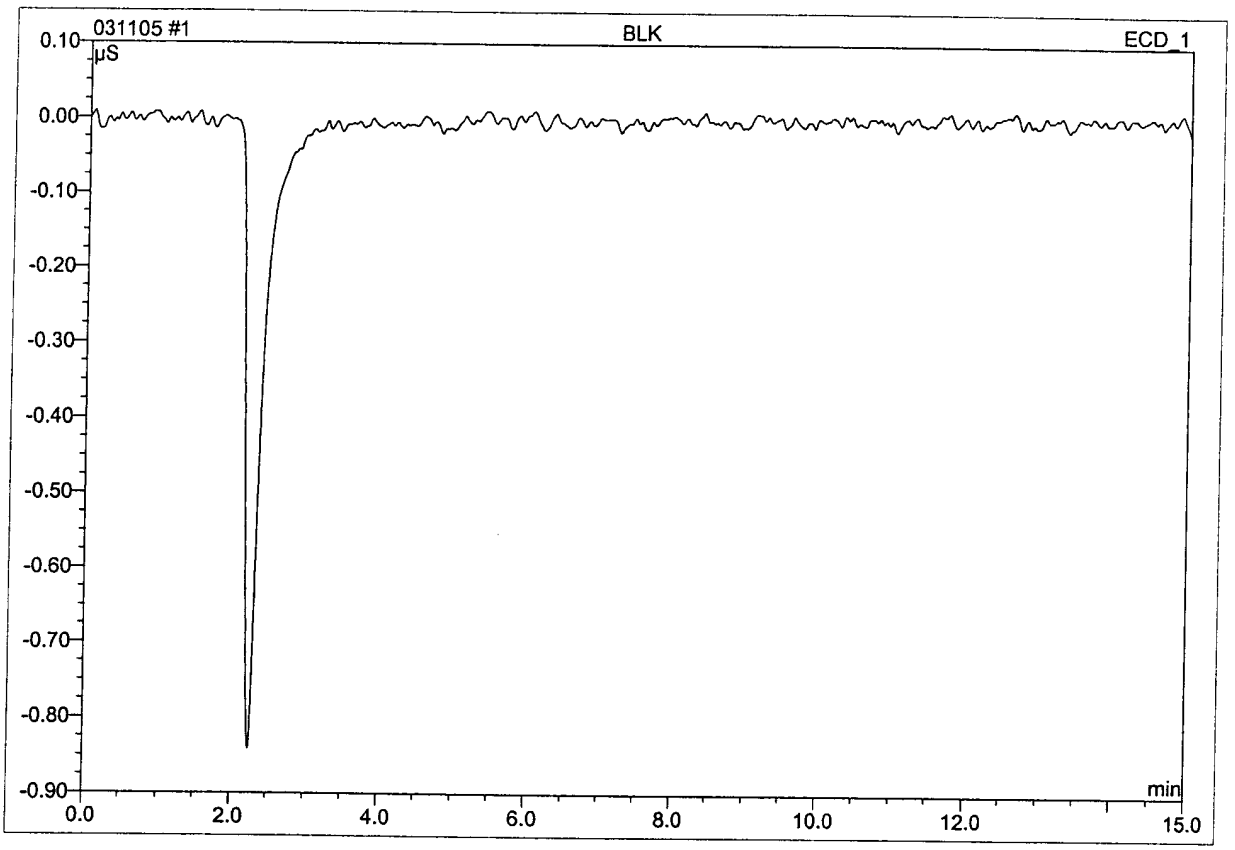
3/14/05

Reviewed by:

Analytical Sequence: 25839 soil batch.

1 BLK

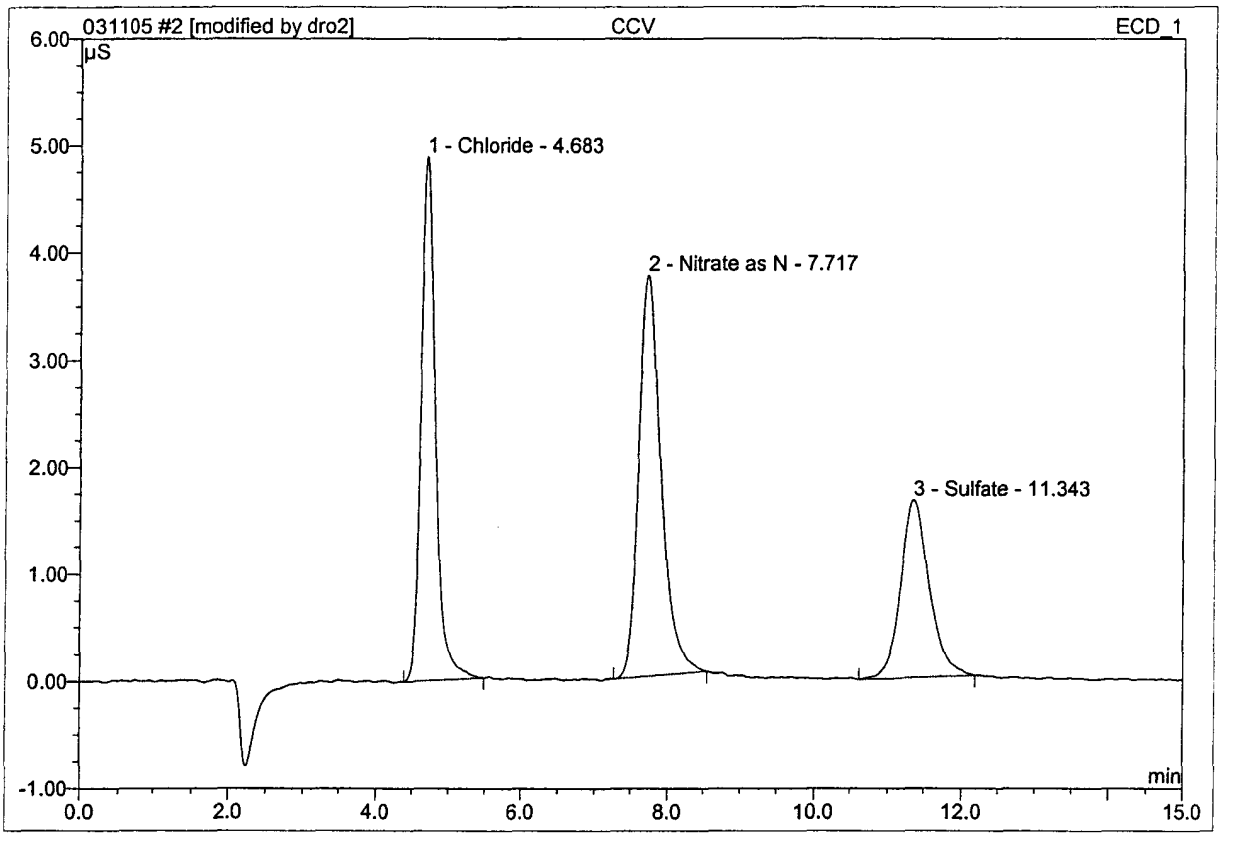
Sample Name:	**BLK**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 10:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

2 CCV

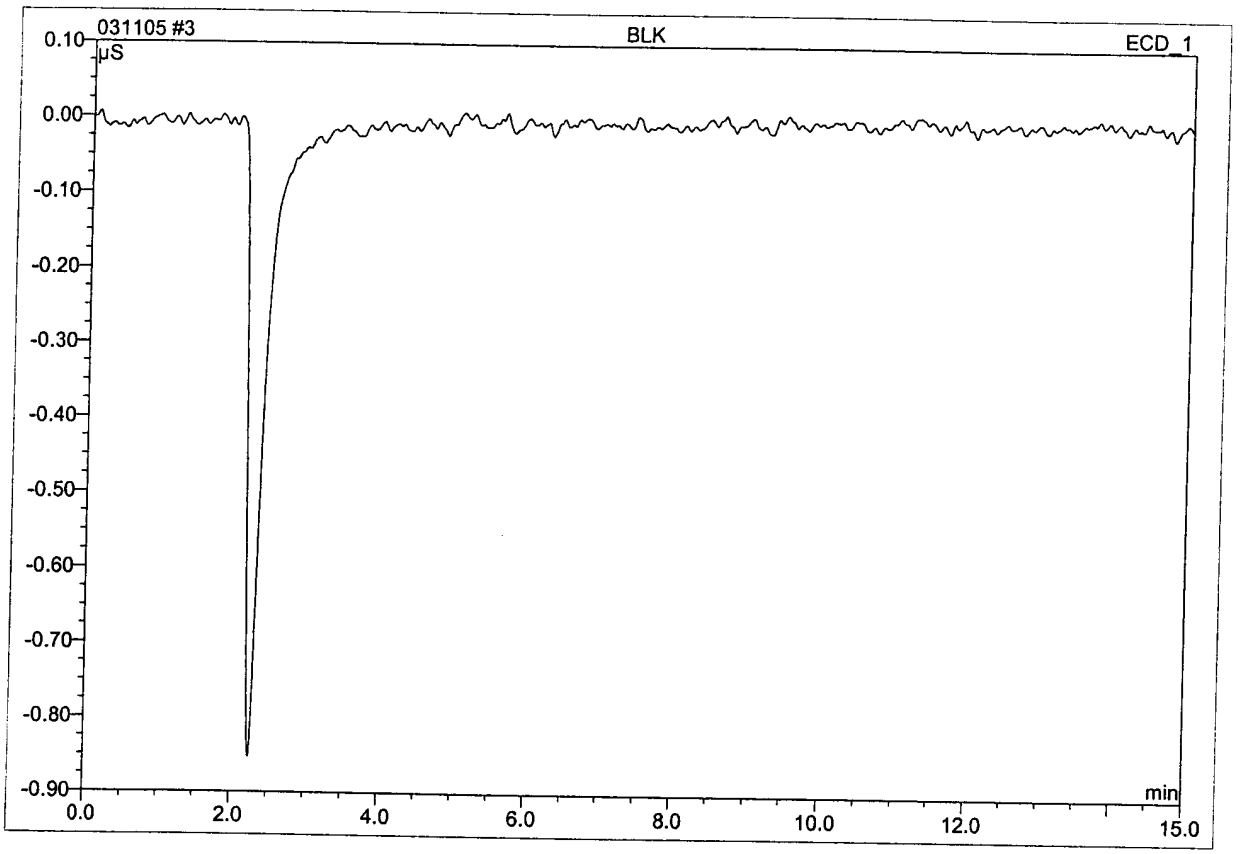
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 10:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	4.888	1.127	35.34	9.746	BMB
2	7.72	Nitrate as N	3.743	1.305	40.93	5.418	BMB*
3	11.34	Sulfate	1.663	0.756	23.72	10.052	BMB
Total:			10.294	3.188	100.00	25.217	

3 BLK

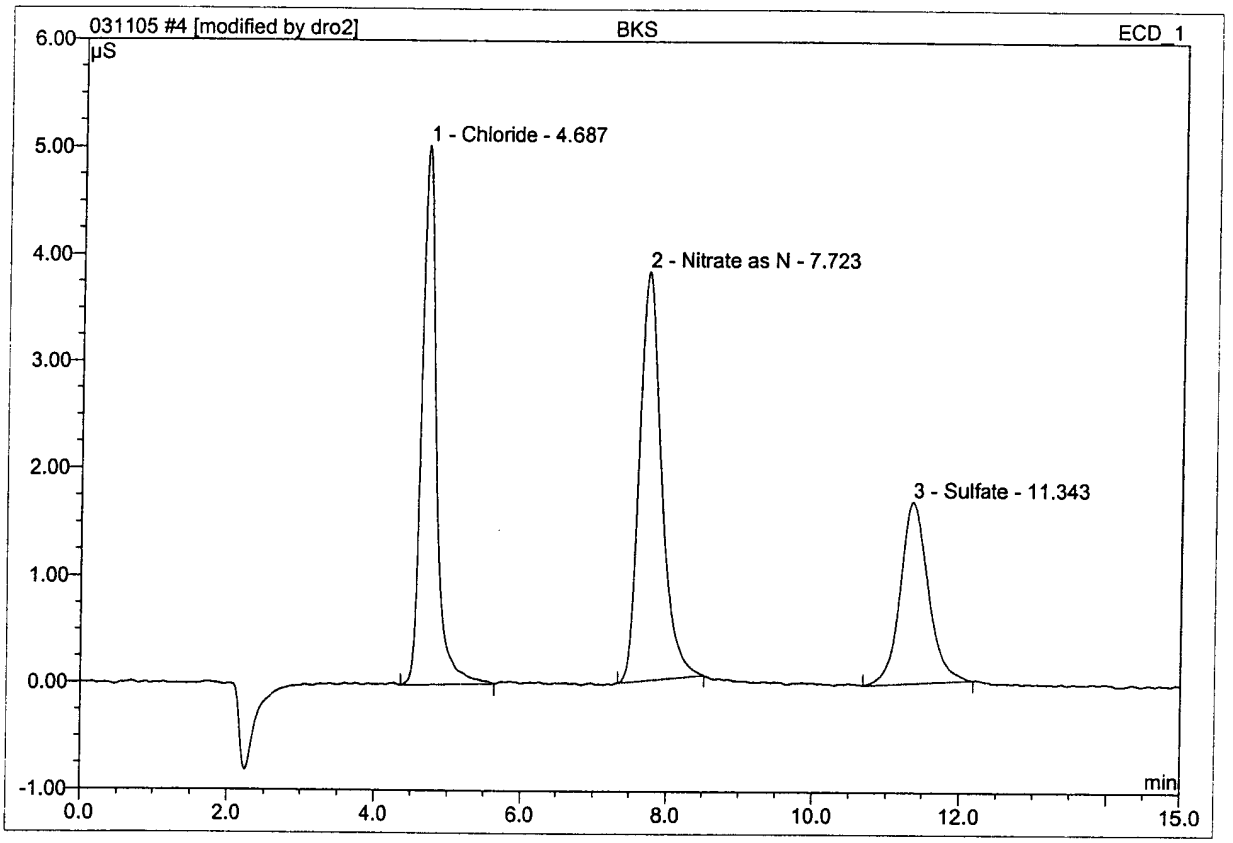
Sample Name:	**BLK**	*Injection Volume:*	**20.0**
Vial Number:	**3**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 10:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

4 BKS

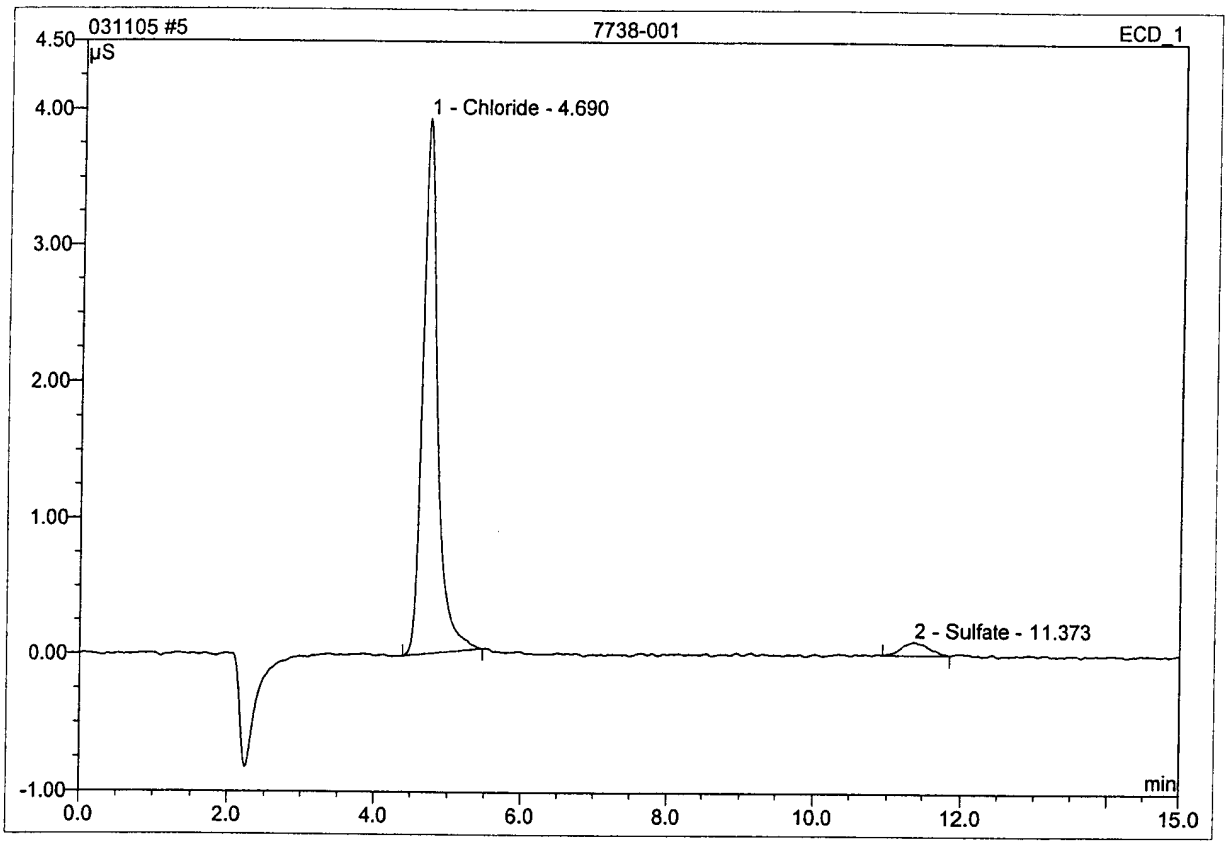
Sample Name:	**BKS**	*Injection Volume:*	**20.0**
Vial Number:	**4**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 11:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	5.033	1.157	35.81	10.009	BMB
2	7.72	Nitrate as N	3.821	1.309	40.52	5.435	BMB*
3	11.34	Sulfate	1.692	0.765	23.67	10.167	BMB
Total:			10.545	3.231	100.00	25.611	

5 7738-001

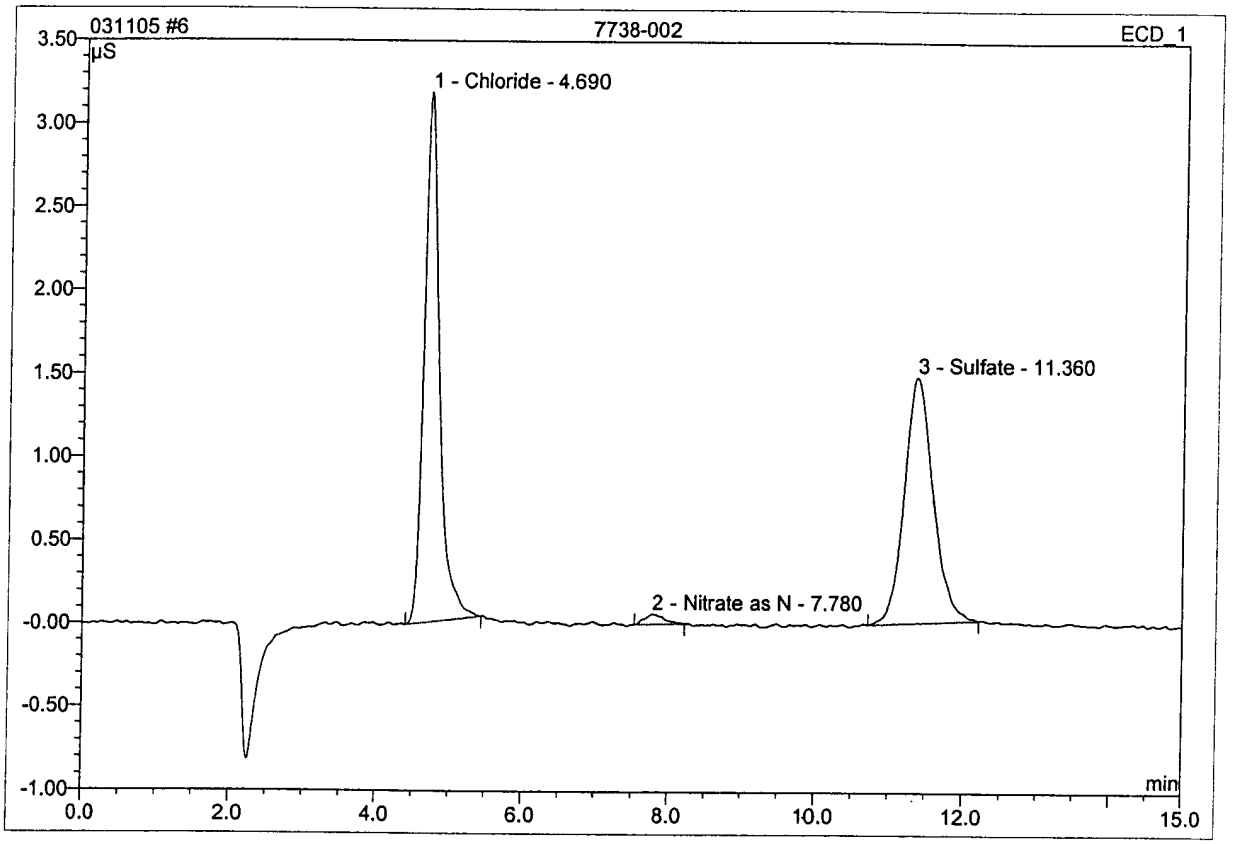
Sample Name:	**7738-001**	*Injection Volume:*	**20.0**
Vial Number:	**5**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 11:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	3.930	0.936	95.62	8.097	BMB
2	11.37	Sulfate	0.100	0.043	4.38	0.569	BMB
Total:			4.030	0.979	100.00	8.666	

6 7738-002

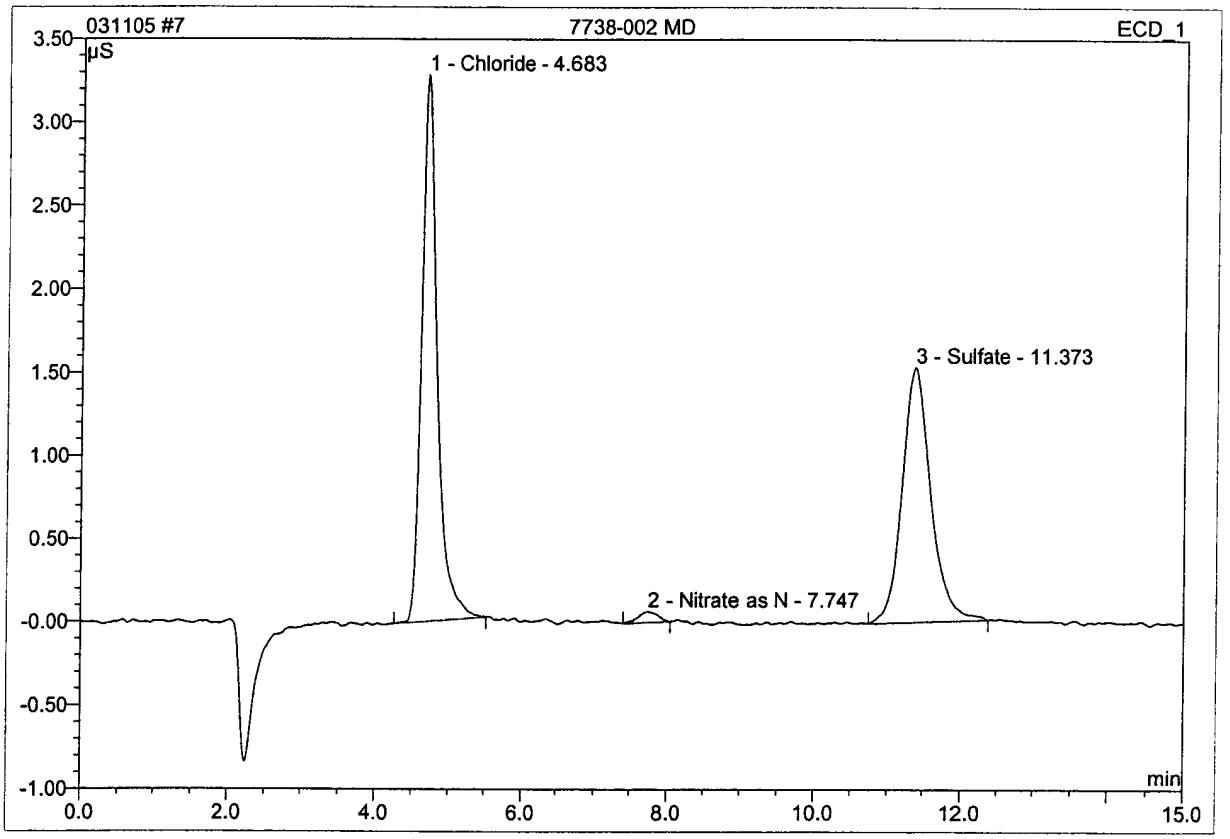
Sample Name:	**7738-002**	*Injection Volume:*	**20.0**
Vial Number:	**6**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 11:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	3.181	0.781	53.31	6.752	BMB
2	7.78	Nitrate as N	0.062	0.019	1.33	0.081	BMB
3	11.36	Sulfate	1.476	0.664	45.36	8.828	BMB
Total:			4.719	1.464	100.00	15.661	

7 7738-002 MD

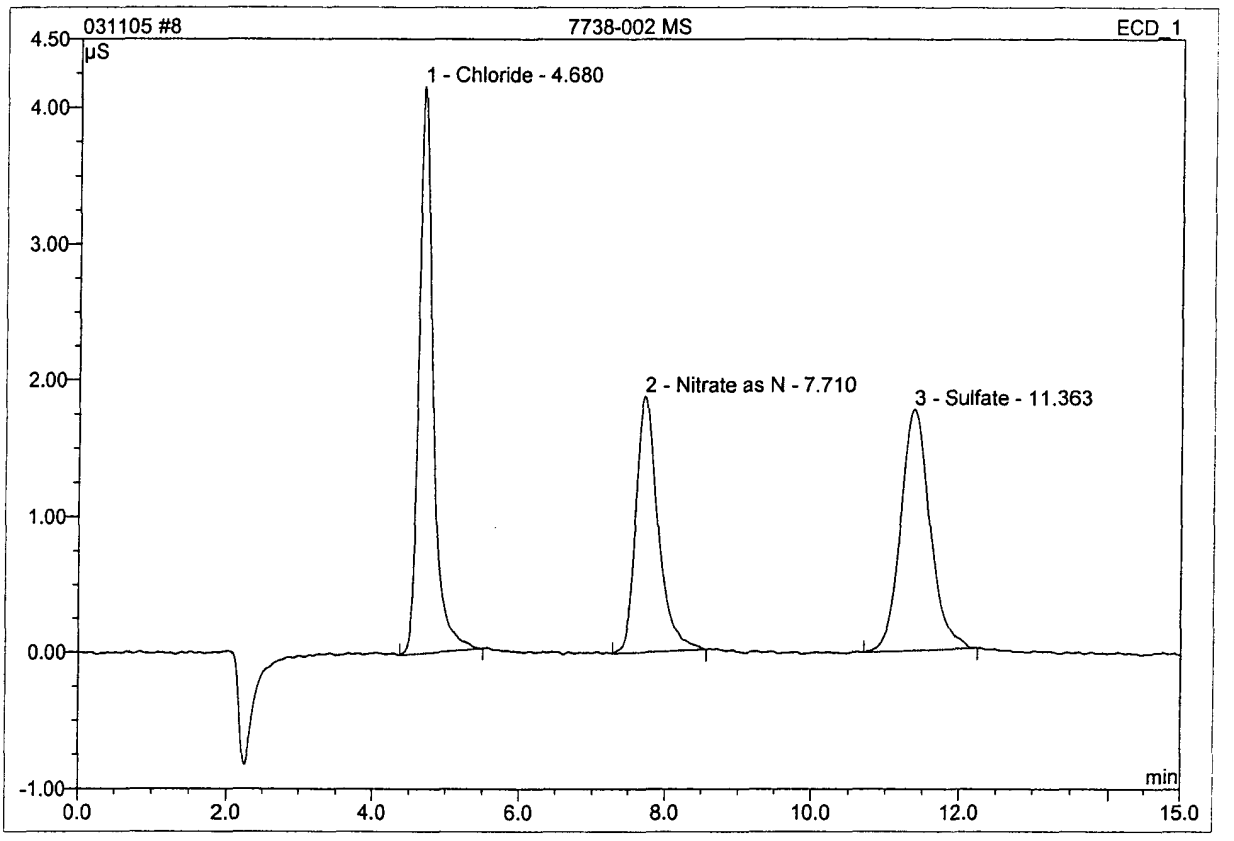
Sample Name:	**7738-002 MD**	*Injection Volume:*	**20.0**
Vial Number:	**7**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 11:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	3.281	0.806	52.65	6.973	BMB
2	7.75	Nitrate as N	0.066	0.020	1.30	0.083	BMB
3	11.37	Sulfate	1.531	0.705	46.04	9.370	BMB
Total:			4.878	1.531	100.00	16.426	

8 7738-002 MS

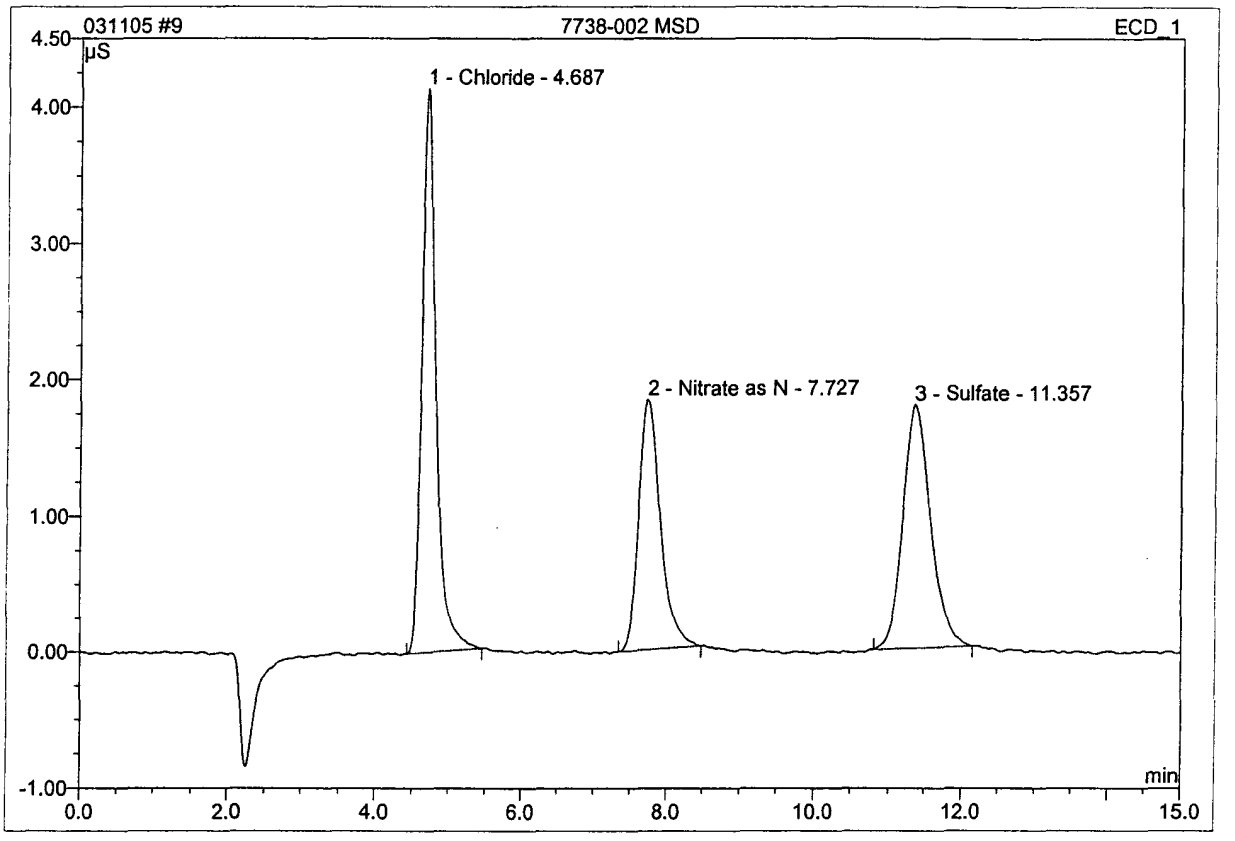
Sample Name:	**7738-002 MS**	*Injection Volume:*	**20.0**
Vial Number:	**8**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 12:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	4.159	0.967	39.81	8.362	BMB
2	7.71	Nitrate as N	1.876	0.659	27.14	2.736	BMB
3	11.36	Sulfate	1.774	0.802	33.05	10.666	BMB
Total:			7.809	2.428	100.00	21.764	

9 7738-002 MSD

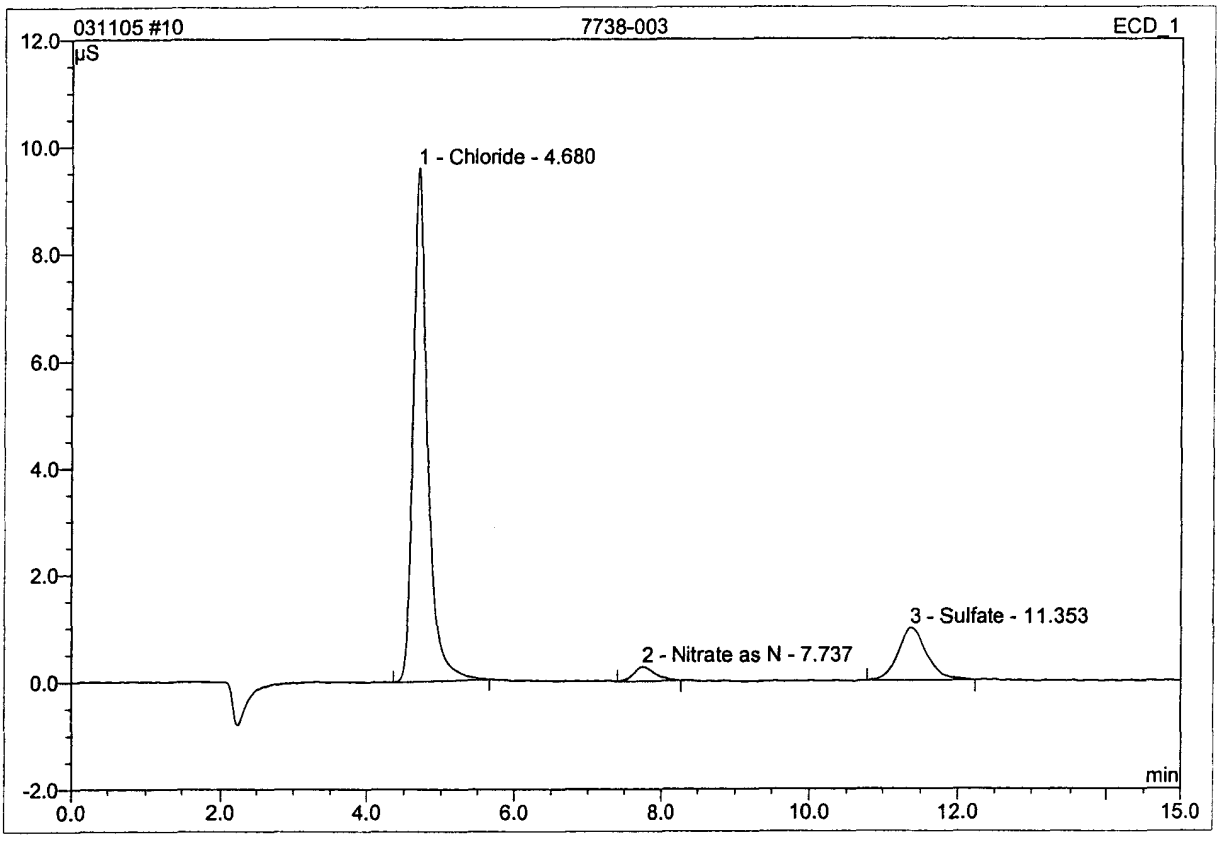
Sample Name:	**7738-002 MSD**	*Injection Volume:*	**20.0**
Vial Number:	**9**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 12:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	4.133	0.953	40.25	8.244	BMB
2	7.73	Nitrate as N	1.835	0.630	26.63	2.617	BMB
3	11.36	Sulfate	1.786	0.784	33.12	10.423	BMB
Total:			7.754	2.368	100.00	21.285	

10 7738-003

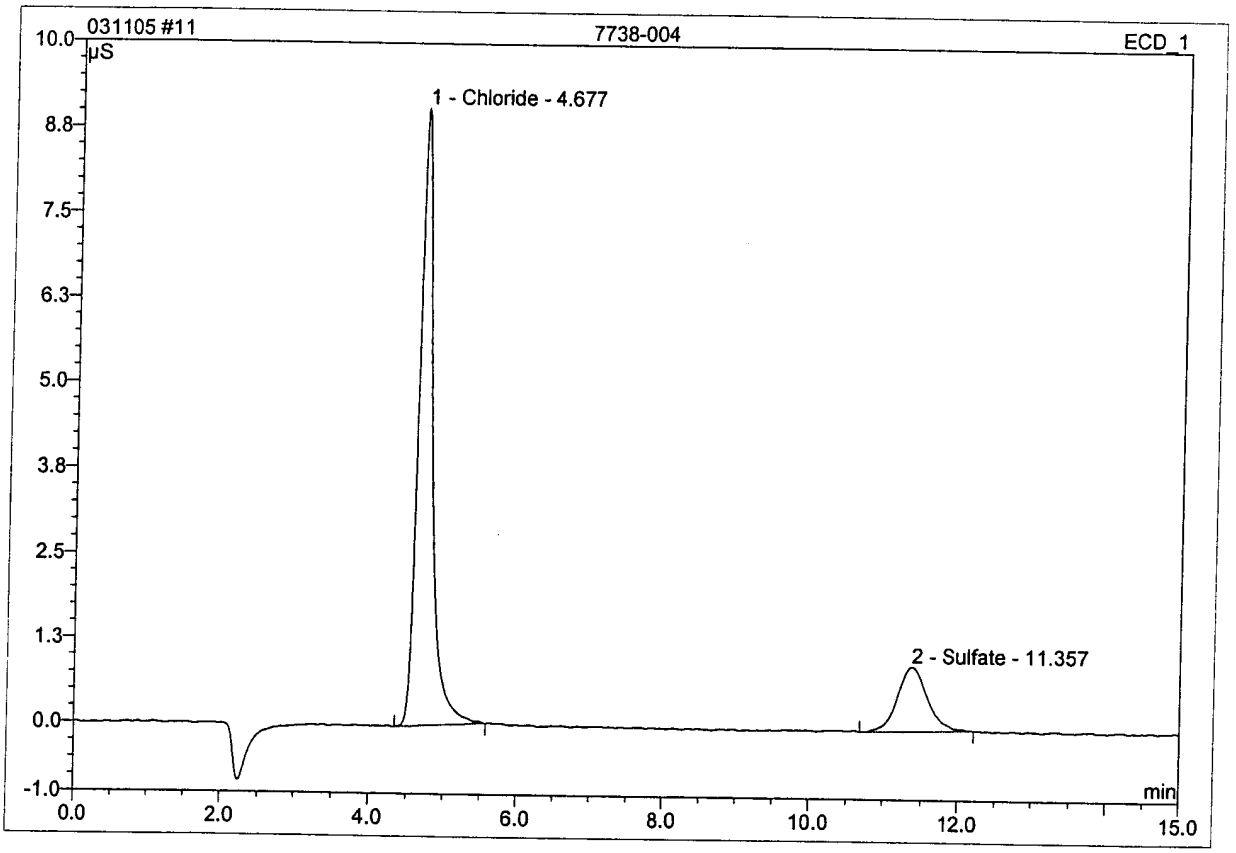
Sample Name:	**7738-003**	*Injection Volume:*	**20.0**
Vial Number:	**10**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 12:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	9.583	2.221	80.45	19.214	BMB
2	7.74	Nitrate as N	0.270	0.091	3.30	0.378	BMB
3	11.35	Sulfate	0.984	0.449	16.25	5.963	BMB
Total:			10.838	2.761	100.00	25.555	

11 7738-004

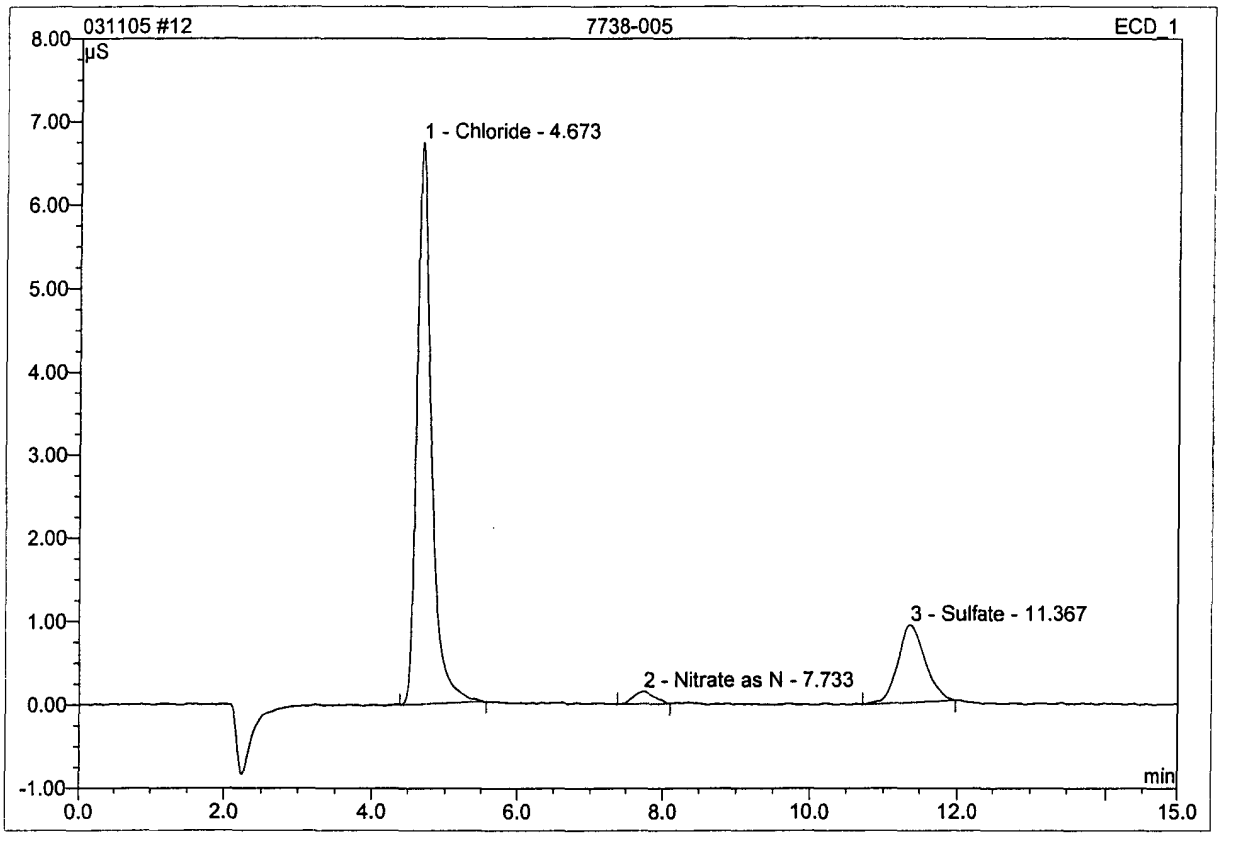
Sample Name:	**7738-004**	*Injection Volume:*	**20.0**
Vial Number:	**11**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 13:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	9.059	2.063	82.48	17.846	BMB
2	11.36	Sulfate	0.946	0.438	17.52	5.824	BMB
Total:			10.006	2.501	100.00	23.670	

12 7738-005

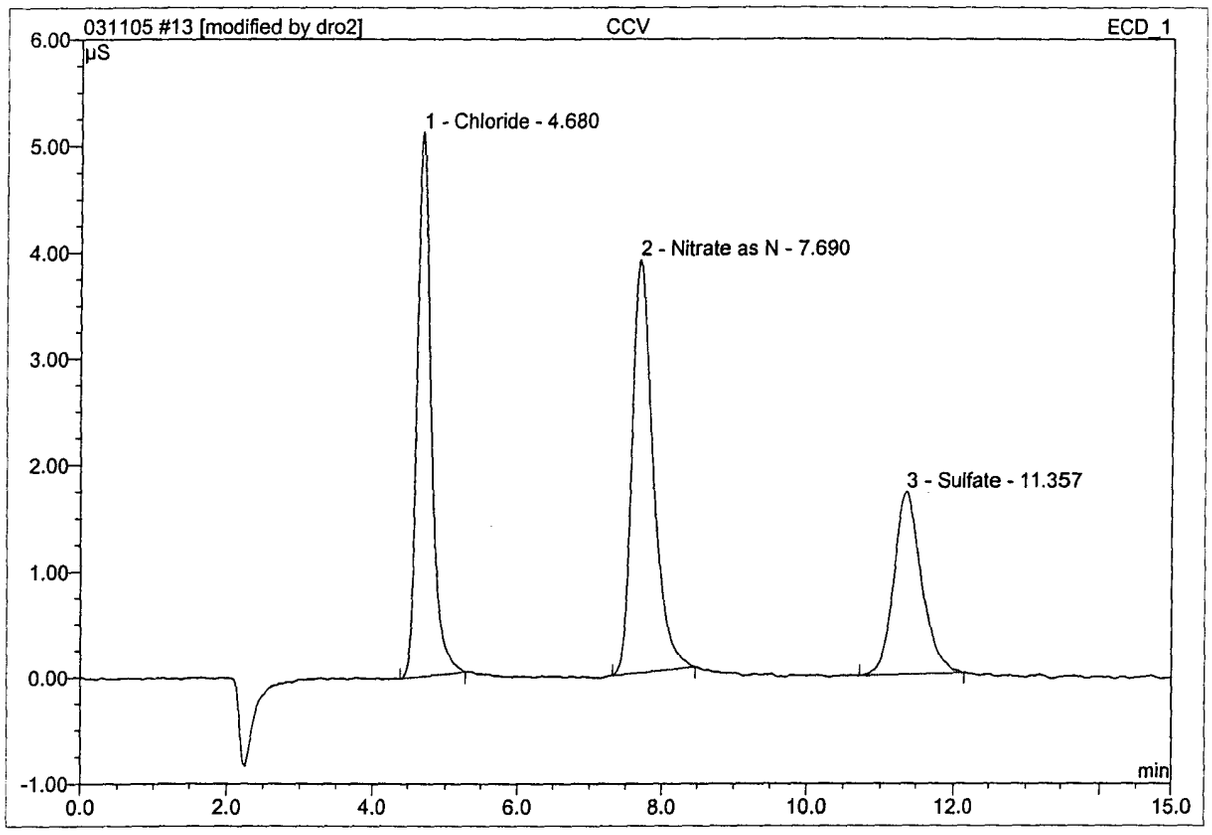
Sample Name:	**7738-005**	*Injection Volume:*	**20.0**
Vial Number:	**12**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 13:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.67	Chloride	6.738	1.539	77.30	13.314	BMB
2	7.73	Nitrate as N	0.148	0.048	2.43	0.201	BMB
3	11.37	Sulfate	0.931	0.404	20.27	5.364	BMB
Total:			7.817	1.991	100.00	18.878	

13 CCV

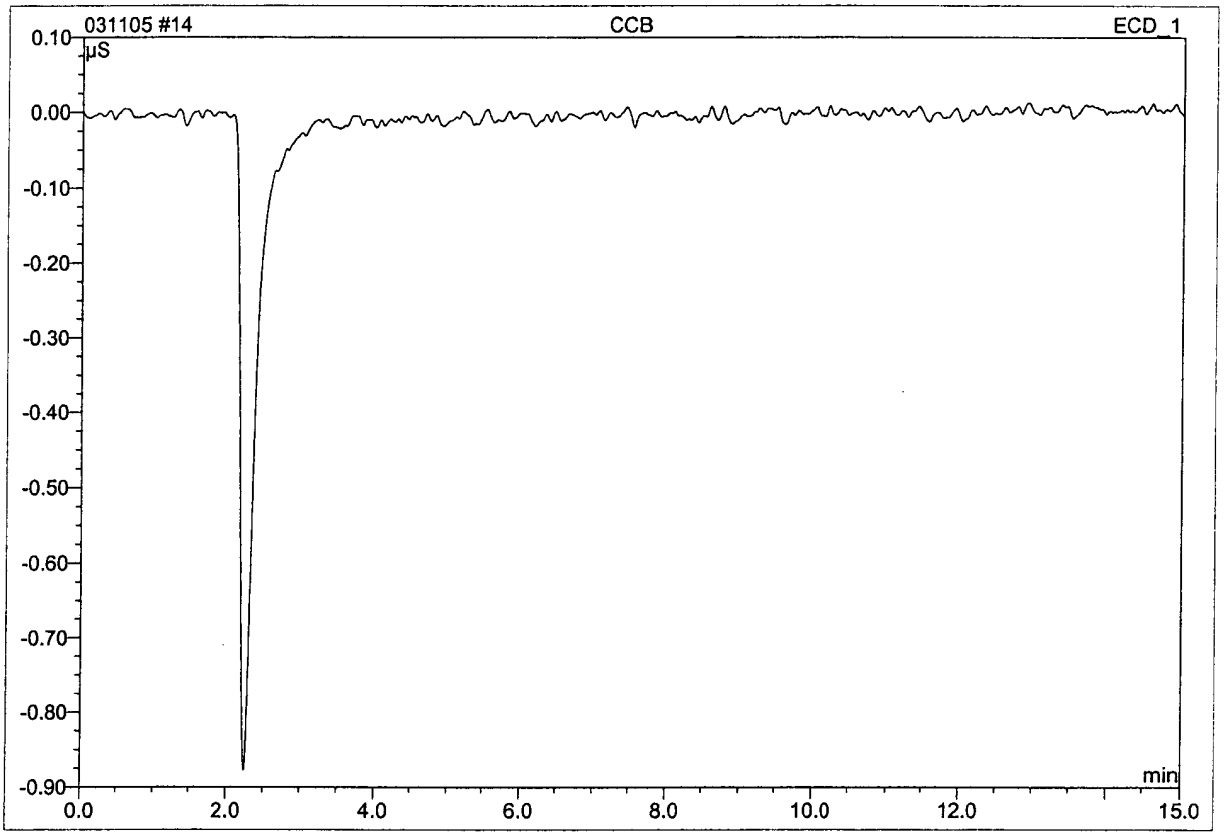
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**13**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 13:43**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	5.116	1.125	35.21	9.731	BMB
2	7.69	Nitrate as N	3.882	1.314	41.11	5.453	BMB*
3	11.36	Sulfate	1.717	0.757	23.68	10.057	BMB
Total:			10.715	3.195	100.00	25.241	

14 CCB

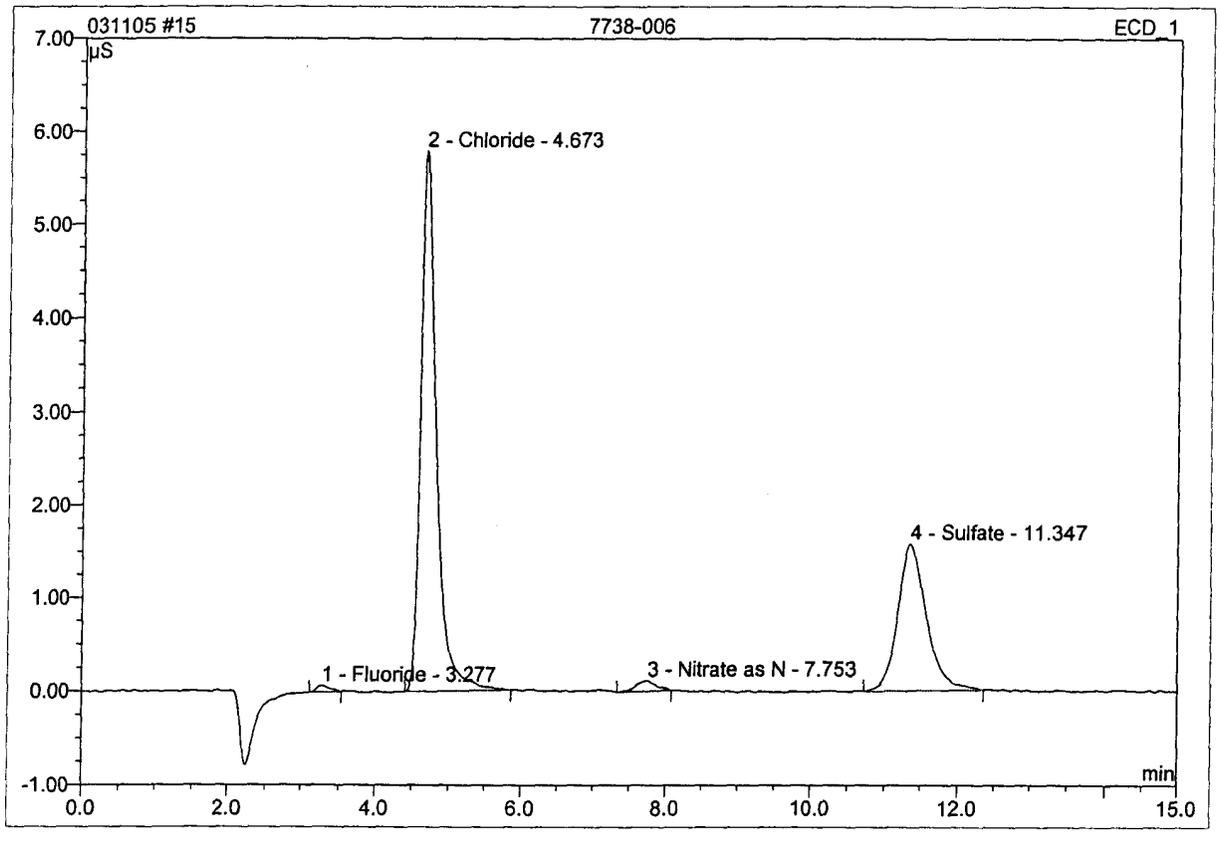
Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**14**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 14:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

15 7738-006

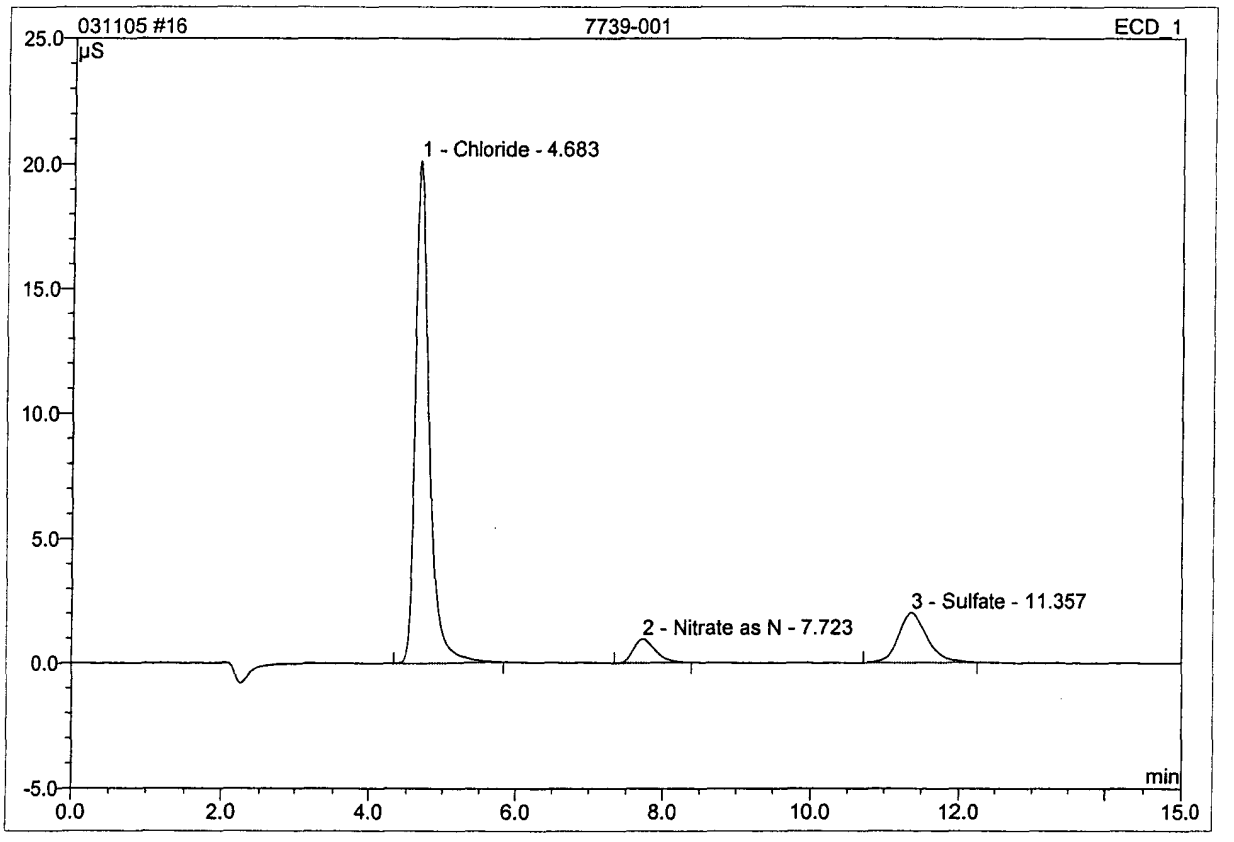
Sample Name:	**7738-006**	*Injection Volume:*	**20.0**
Vial Number:	**15**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 14:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.28	Fluoride	0.068	0.014	0.63	0.084	BMB
2	4.67	Chloride	5.789	1.430	65.26	12.373	BMB
3	7.75	Nitrate as N	0.110	0.036	1.63	0.148	BMB
4	11.35	Sulfate	1.577	0.712	32.48	9.464	BMB
Total:			7.545	2.192	100.00	22.070	

16 7739-001

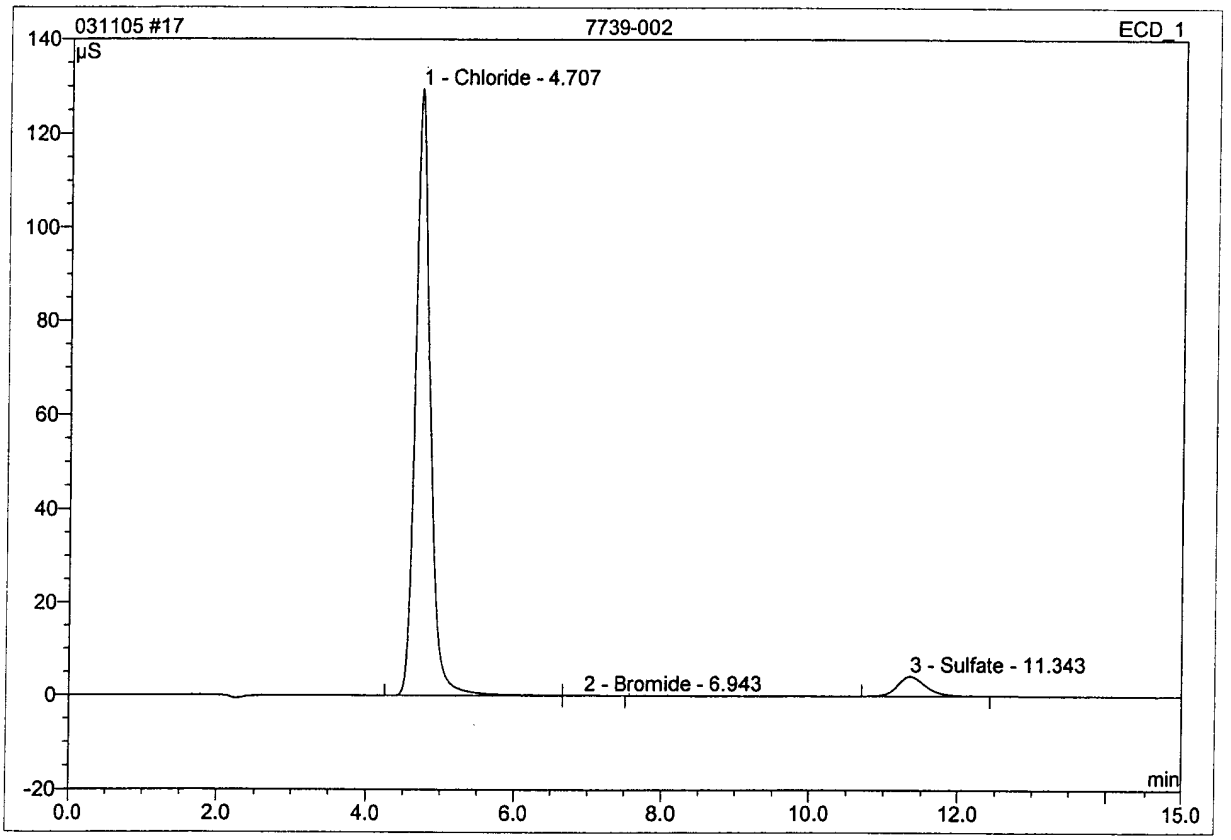
Sample Name:	**7739-001**	*Injection Volume:*	**20.0**
Vial Number:	**16**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 14:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	20.126	4.520	78.69	39.100	BMB
2	7.72	Nitrate as N	0.958	0.332	5.77	1.376	BMB
3	11.36	Sulfate	2.001	0.893	15.54	11.863	BMB
Total:			23.085	5.744	100.00	52.340	

17 7739-002

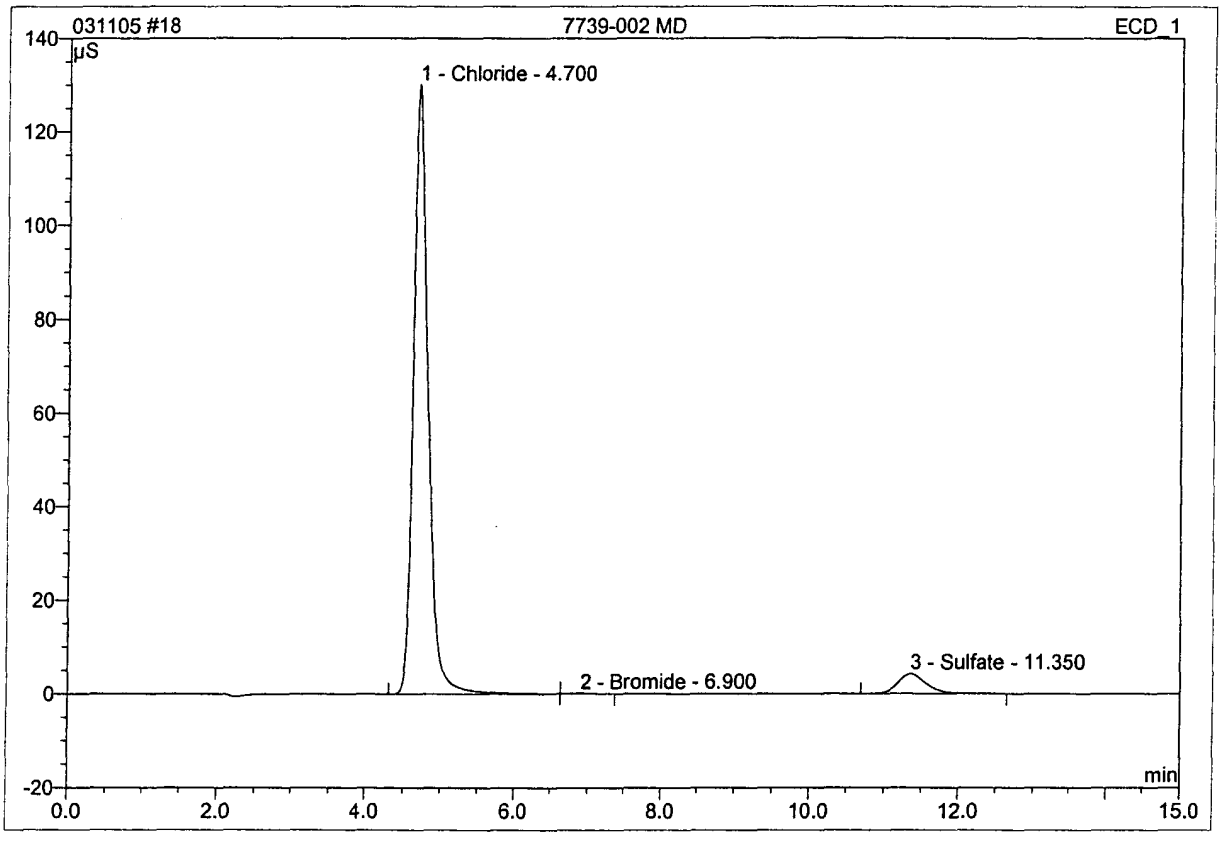
Sample Name:	**7739-002**	*Injection Volume:*	**20.0**
Vial Number:	**17**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 14:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.71	Chloride	129.465	30.560	93.99	264.334	BM
2	6.94	Bromide	0.150	0.065	0.20	1.648	MB
3	11.34	Sulfate	4.216	1.891	5.82	25.132	BMB
Total:			133.831	32.515	100.00	291.114	

18 7739-002 MD

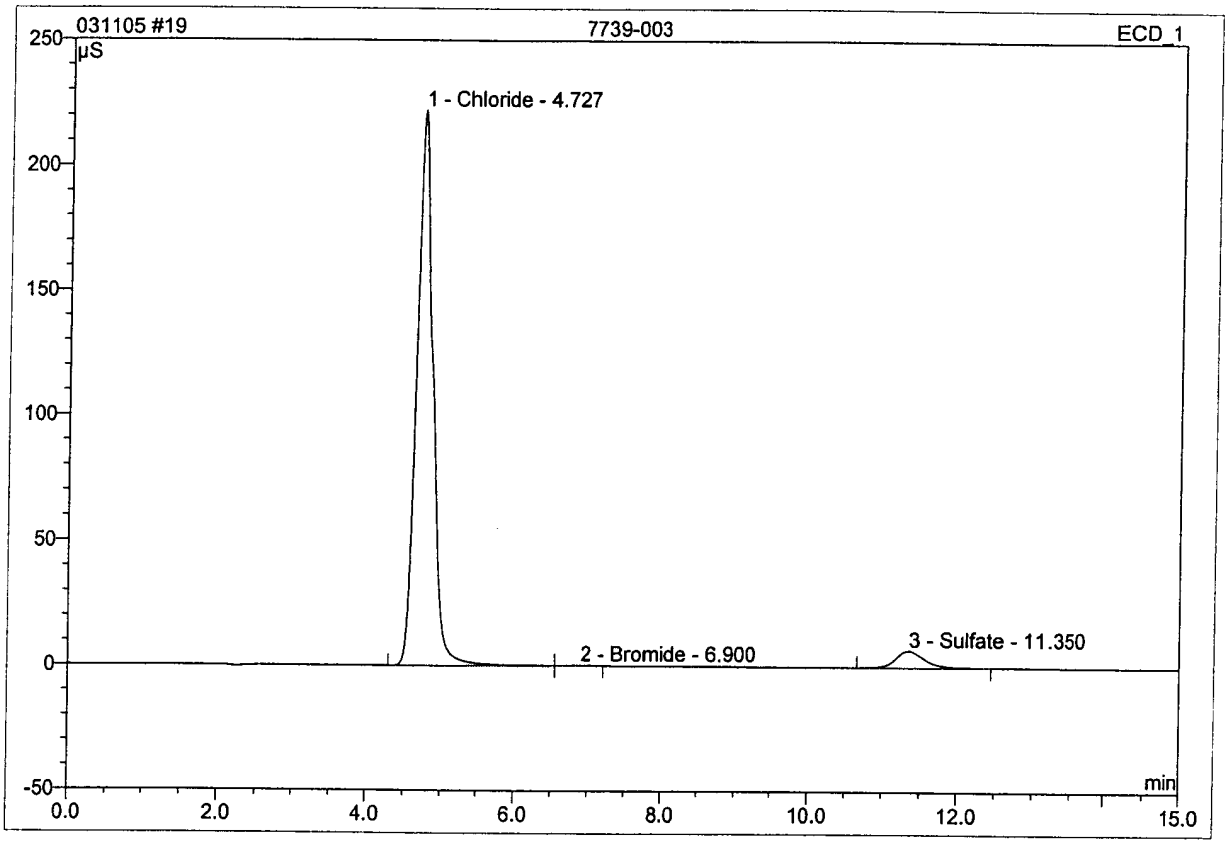
Sample Name:	**7739-002 MD**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 15:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.70	Chloride	129.994	30.537	93.91	264.136	BM
2	6.90	Bromide	0.162	0.063	0.19	1.587	MB
3	11.35	Sulfate	4.252	1.917	5.90	25.479	BMB
Total:			134.407	32.516	100.00	291.202	

19 7739-003

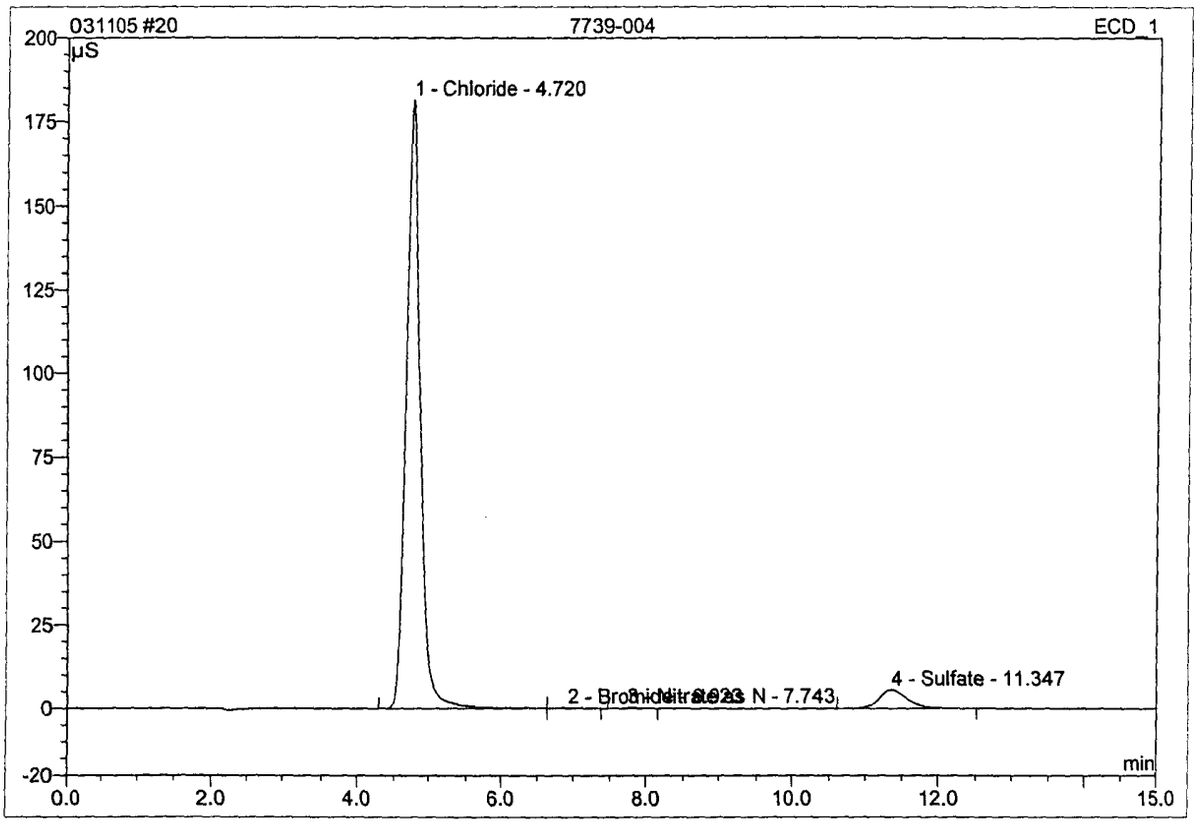
Sample Name:	**7739-003**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 15:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.73	Chloride	222.026	56.614	94.95	489.700	BMB
2	6.90	Bromide	0.149	0.041	0.07	1.051	bMB
3	11.35	Sulfate	6.706	2.973	4.99	39.511	BMB
Total:			228.882	59.628	100.00	530.261	

20 7739-004

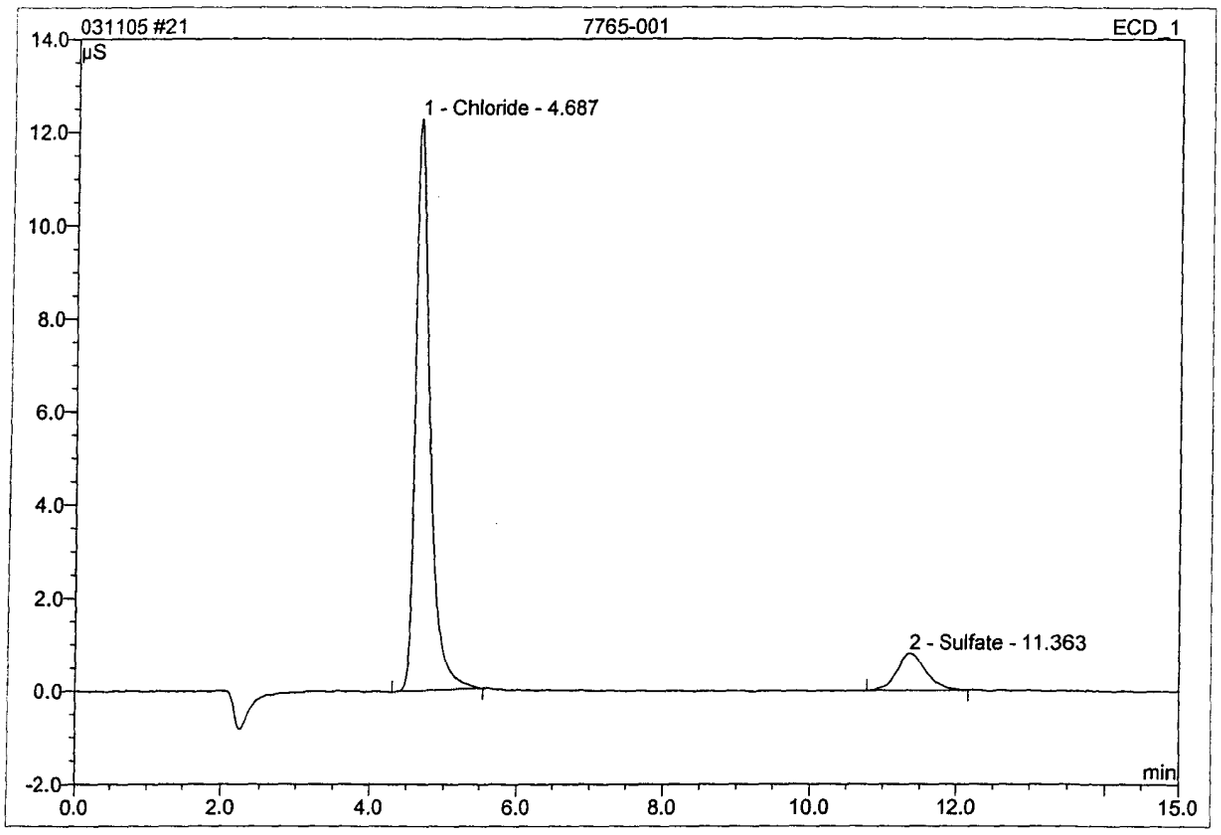
Sample Name:	**7739-004**	*Injection Volume:*	**20.0**
Vial Number:	**20**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 15:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.72	Chloride	181.455	43.761	94.39	378.528	BMB
2	6.92	Bromide	0.121	0.032	0.07	0.820	bMB
3	7.74	Nitrate as N	0.187	0.058	0.12	0.239	BMB
4	11.35	Sulfate	5.587	2.509	5.41	33.344	BMB
Total:			187.350	46.360	100.00	412.931	

21 7765-001

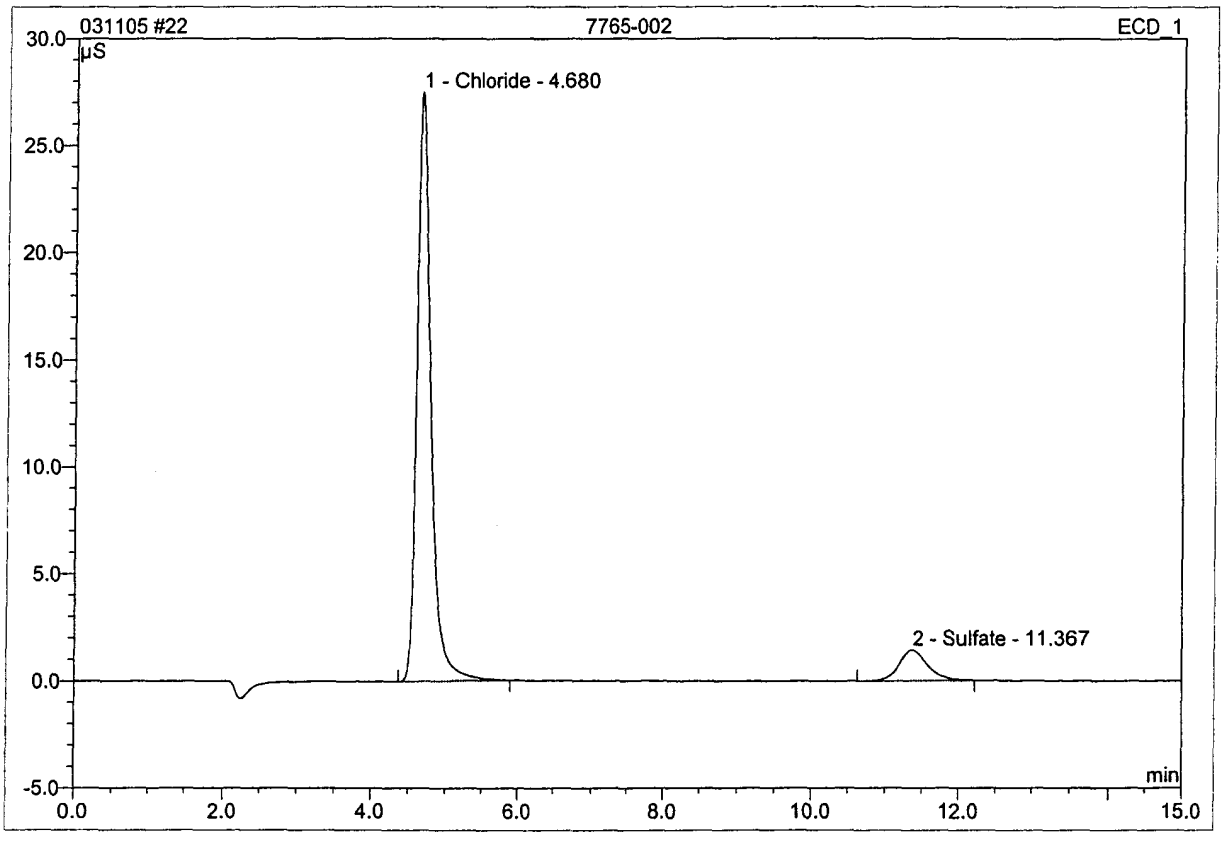
Sample Name:	**7765-001**	*Injection Volume:*	**20.0**
Vial Number:	**21**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 16:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	12.259	2.840	88.72	24.570	BMB
2	11.36	Sulfate	0.790	0.361	11.28	4.798	BMB
Total:			13.049	3.202	100.00	29.368	

22 7765-002

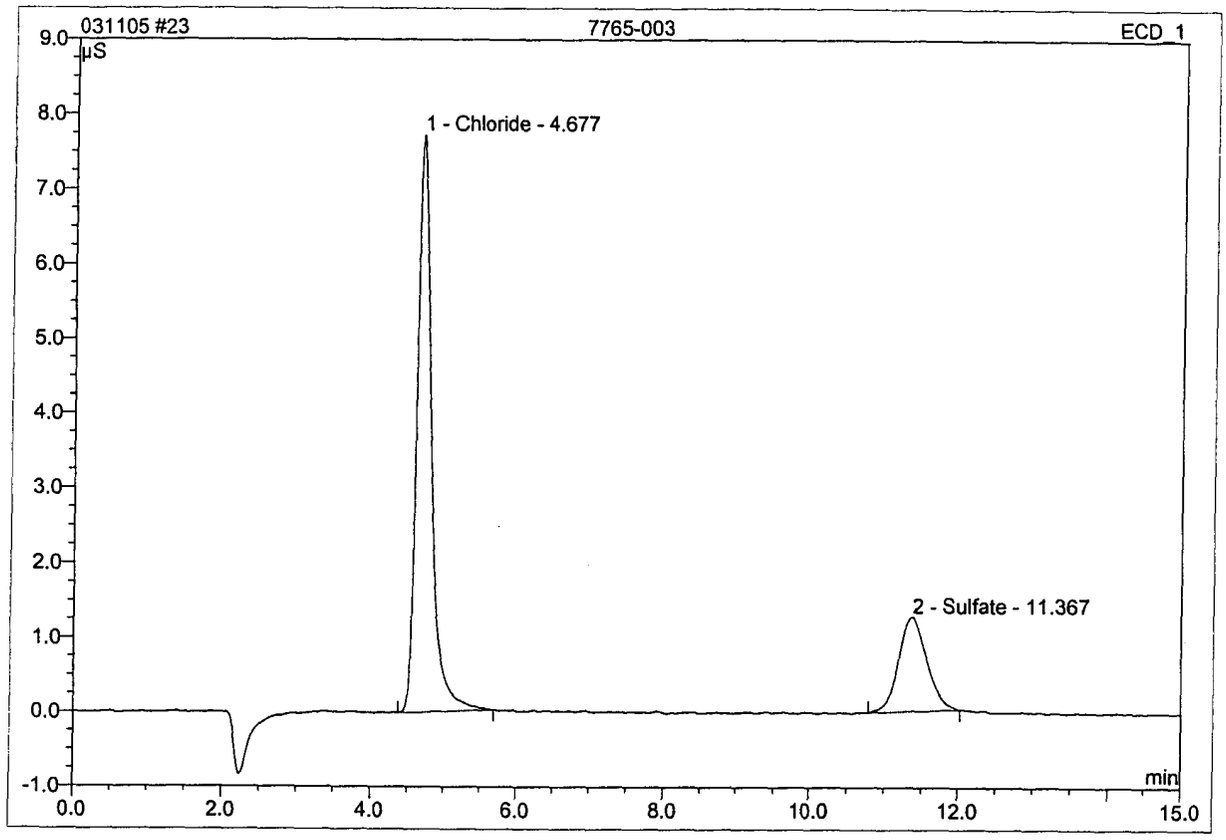
Sample Name:	**7765-002**	*Injection Volume:*	**20.0**
Vial Number:	**22**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 16:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	27.492	6.056	90.28	52.387	BMB
2	11.37	Sulfate	1.447	0.652	9.72	8.671	BMB
Total:			28.939	6.709	100.00	61.058	

23 7765-003

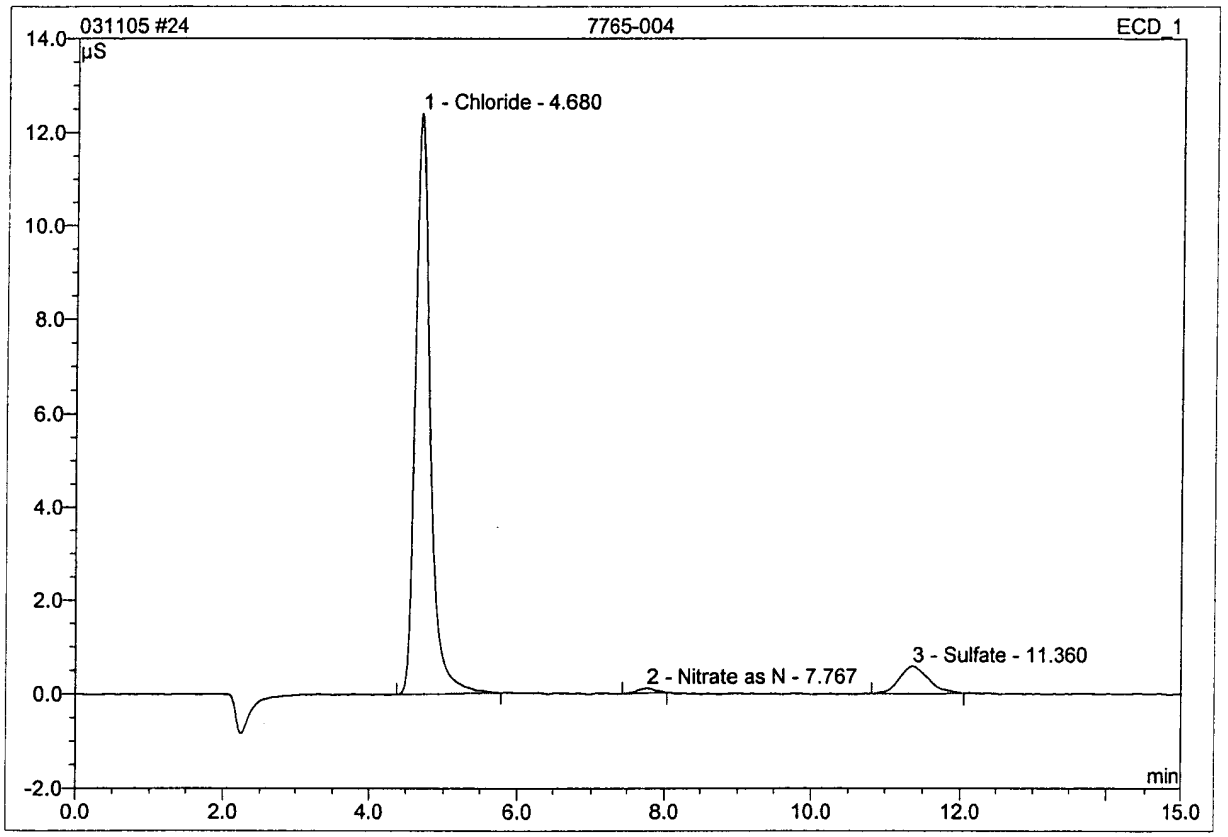
Sample Name:	**7765-003**	*Injection Volume:*	**20.0**
Vial Number:	**23**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 16:37**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	7.722	1.808	76.37	15.641	BMB
2	11.37	Sulfate	1.266	0.559	23.63	7.436	BMB
Total:			8.988	2.368	100.00	23.077	

24 7765-004

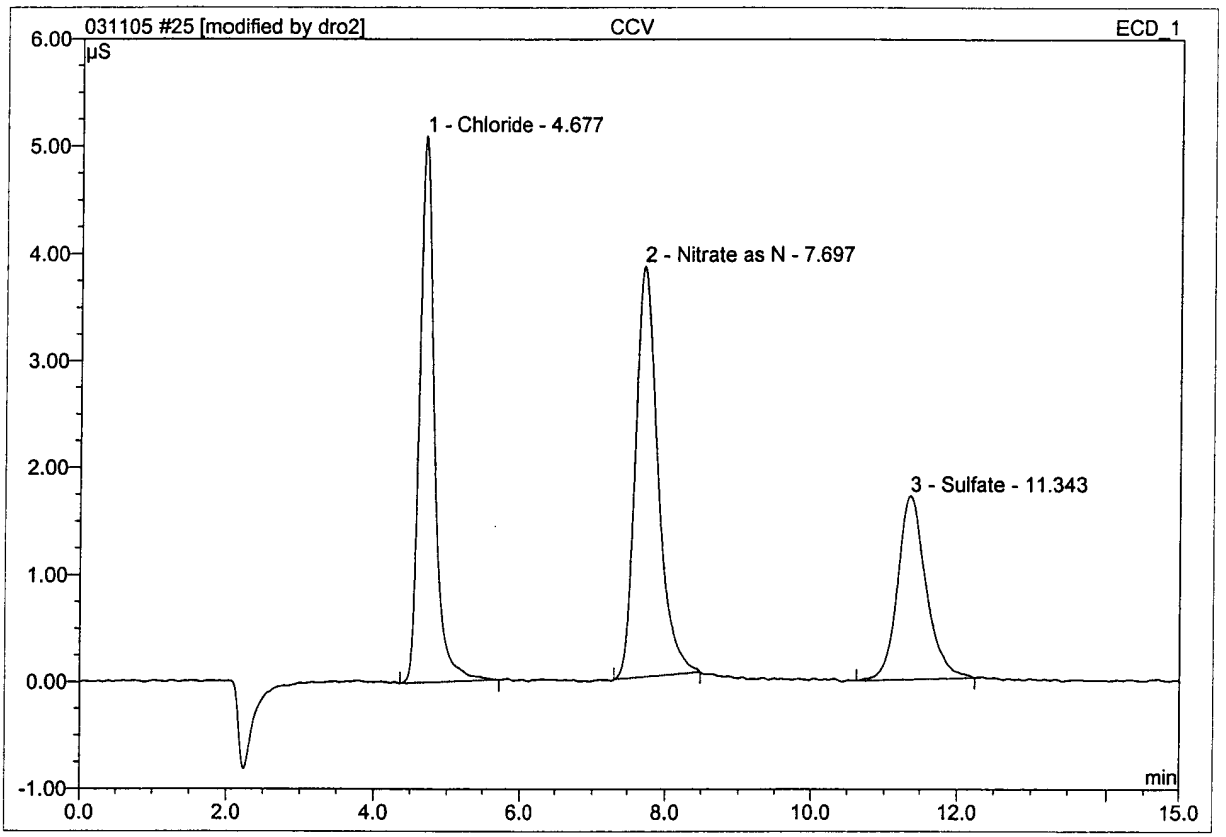
Sample Name:	**7765-004**	*Injection Volume:*	**20.0**
Vial Number:	**24**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 16:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	12.402	2.799	90.53	24.208	BMB
2	7.77	Nitrate as N	0.104	0.030	0.96	0.123	BMB
3	11.36	Sulfate	0.580	0.263	8.51	3.497	BMB
Total:			13.087	3.091	100.00	27.828	

25 CCV

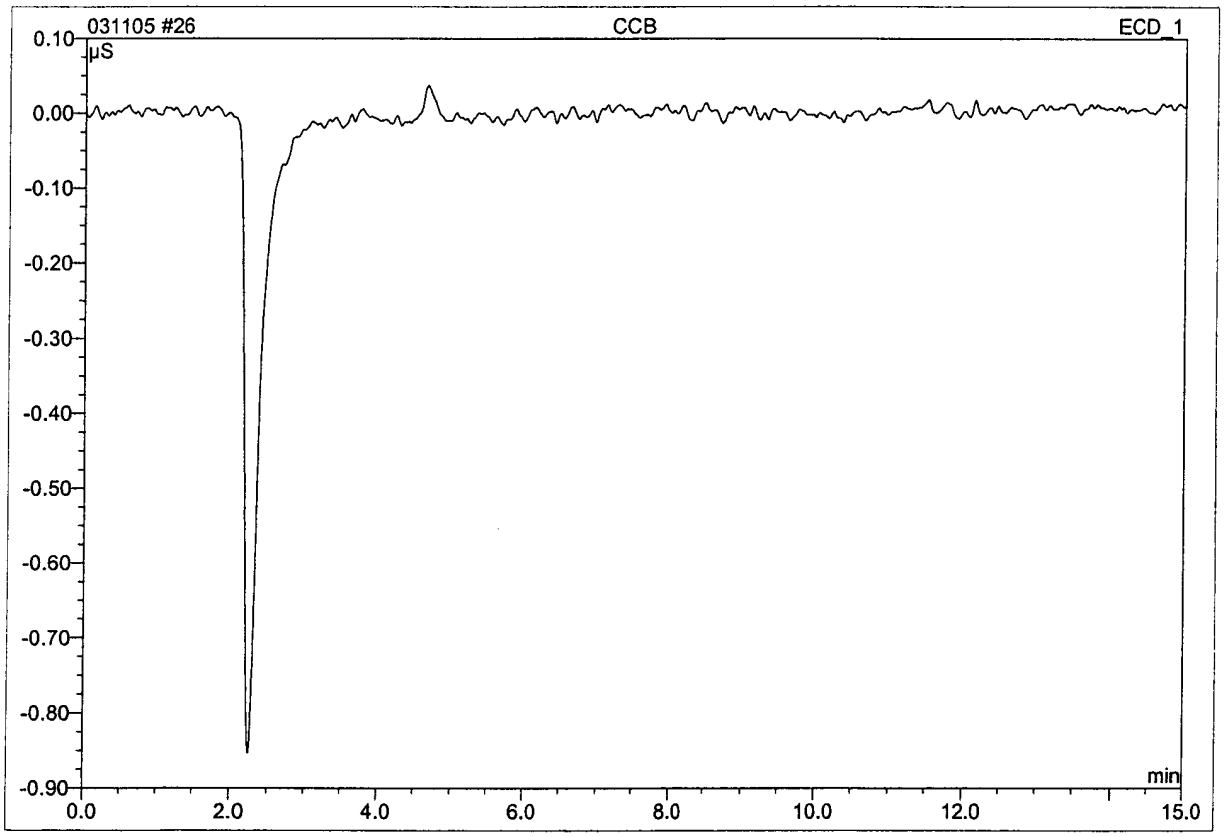
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**25**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 17:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	5.100	1.175	35.81	10.159	BMB
2	7.70	Nitrate as N	3.836	1.323	40.34	5.493	BMB*
3	11.34	Sulfate	1.716	0.782	23.85	10.398	BMB
Total:			10.653	3.280	100.00	26.050	

26 CCB

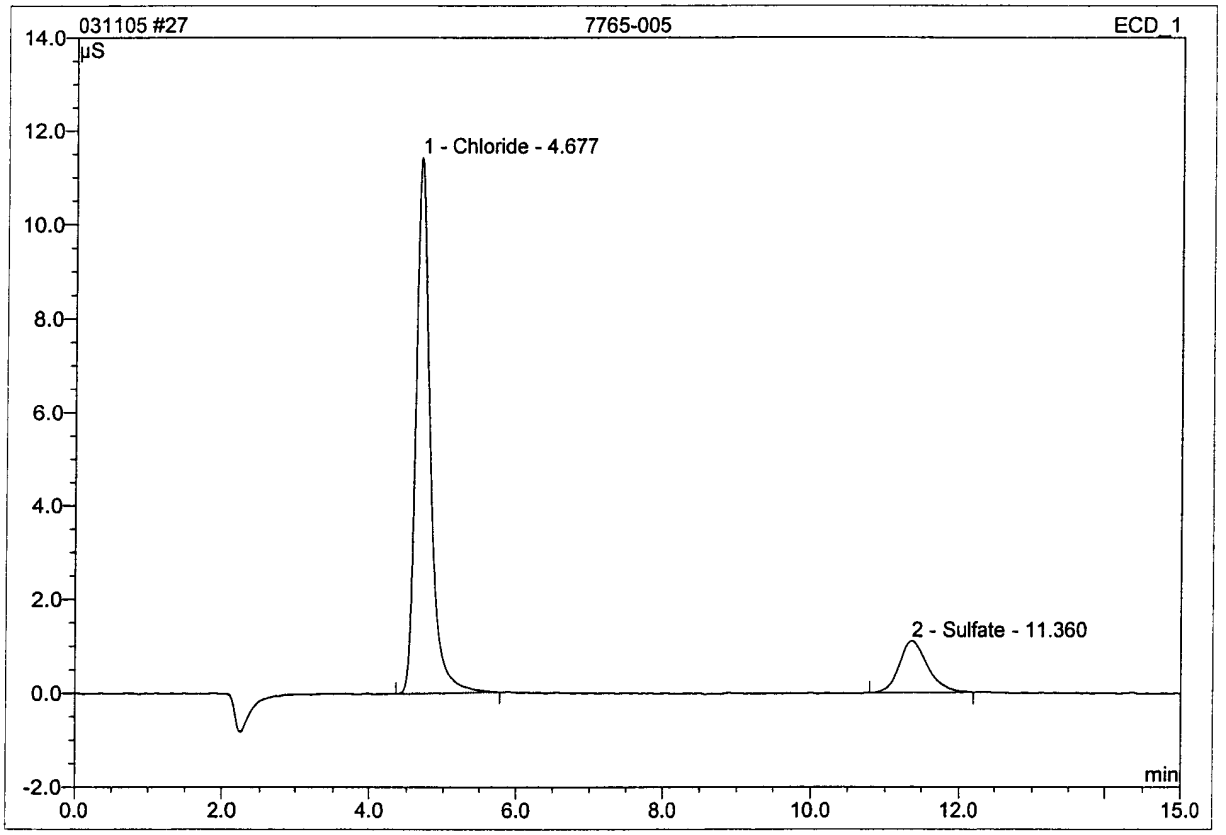
Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**26**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 17:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

27 7765-005

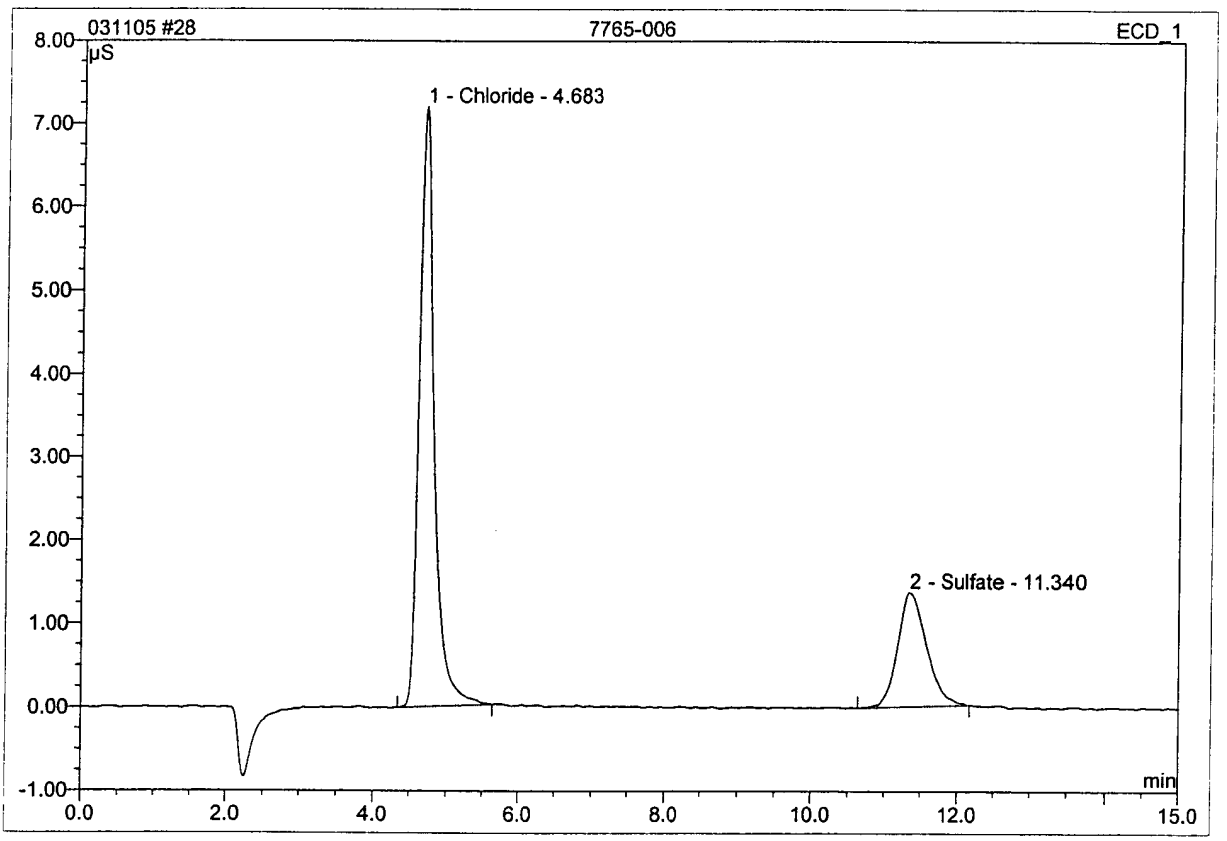
Sample Name:	**7765-005**	*Injection Volume:*	**20.0**
Vial Number:	**27**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 17:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	11.430	2.613	84.22	22.604	BMB
2	11.36	Sulfate	1.097	0.489	15.78	6.505	BMB
Total:			12.527	3.103	100.00	29.109	

28 7765-006

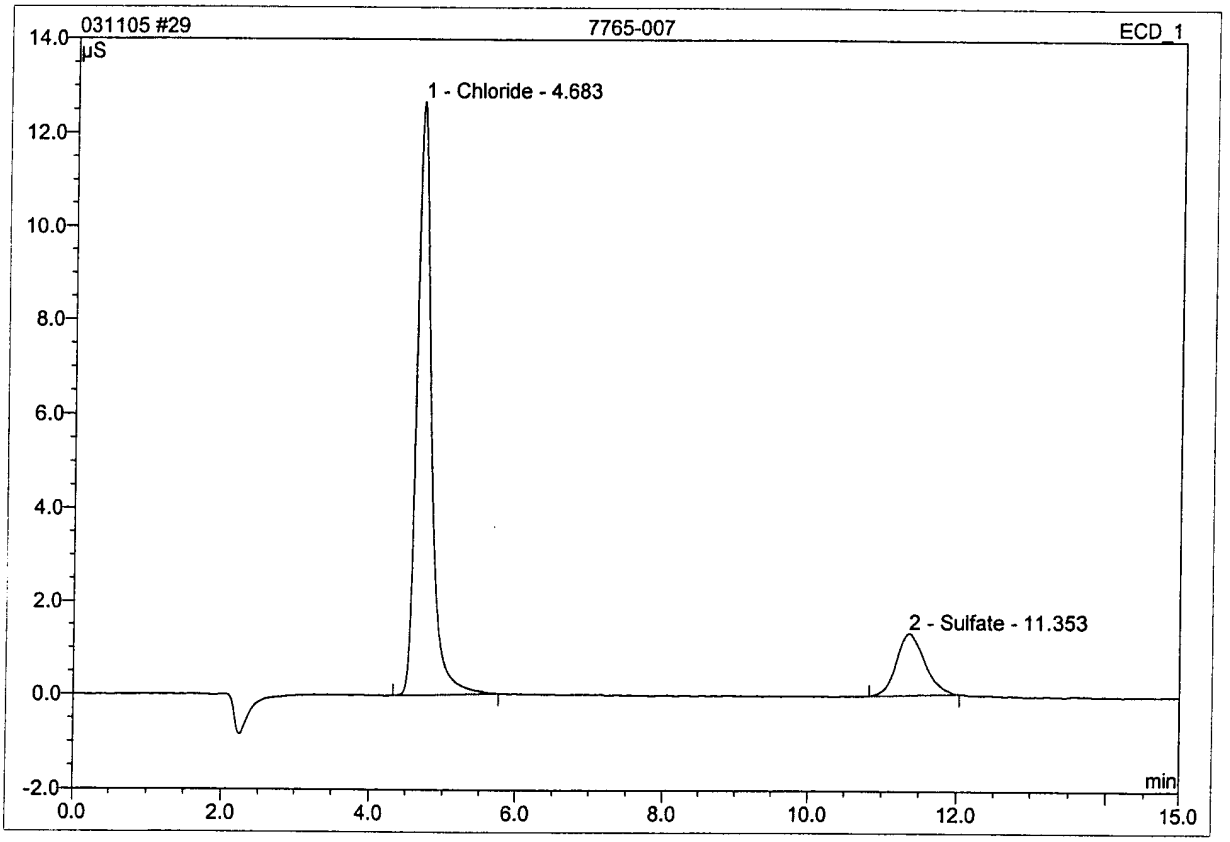
Sample Name:	**7765-006**	*Injection Volume:*	**20.0**
Vial Number:	**28**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 18:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	7.191	1.691	73.18	14.627	BMB
2	11.34	Sulfate	1.366	0.620	26.82	8.239	BMB
Total:			8.557	2.311	100.00	22.866	

29 7765-007

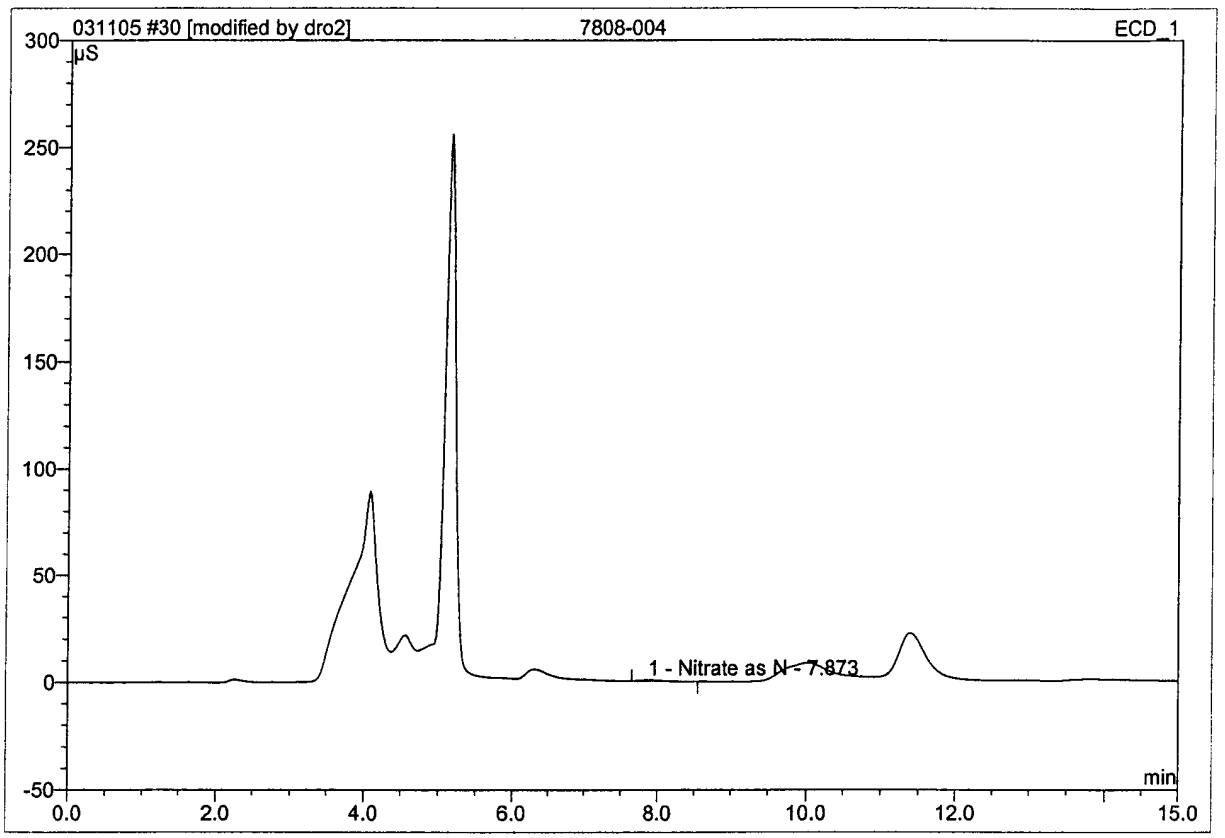
Sample Name:	**7765-007**	*Injection Volume:*	**20.0**
Vial Number:	**29**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 18:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	12.660	2.851	83.08	24.659	BMB
2	11.35	Sulfate	1.328	0.581	16.92	7.718	BMB
Total:			13.988	3.432	100.00	32.377	

30 7808-004

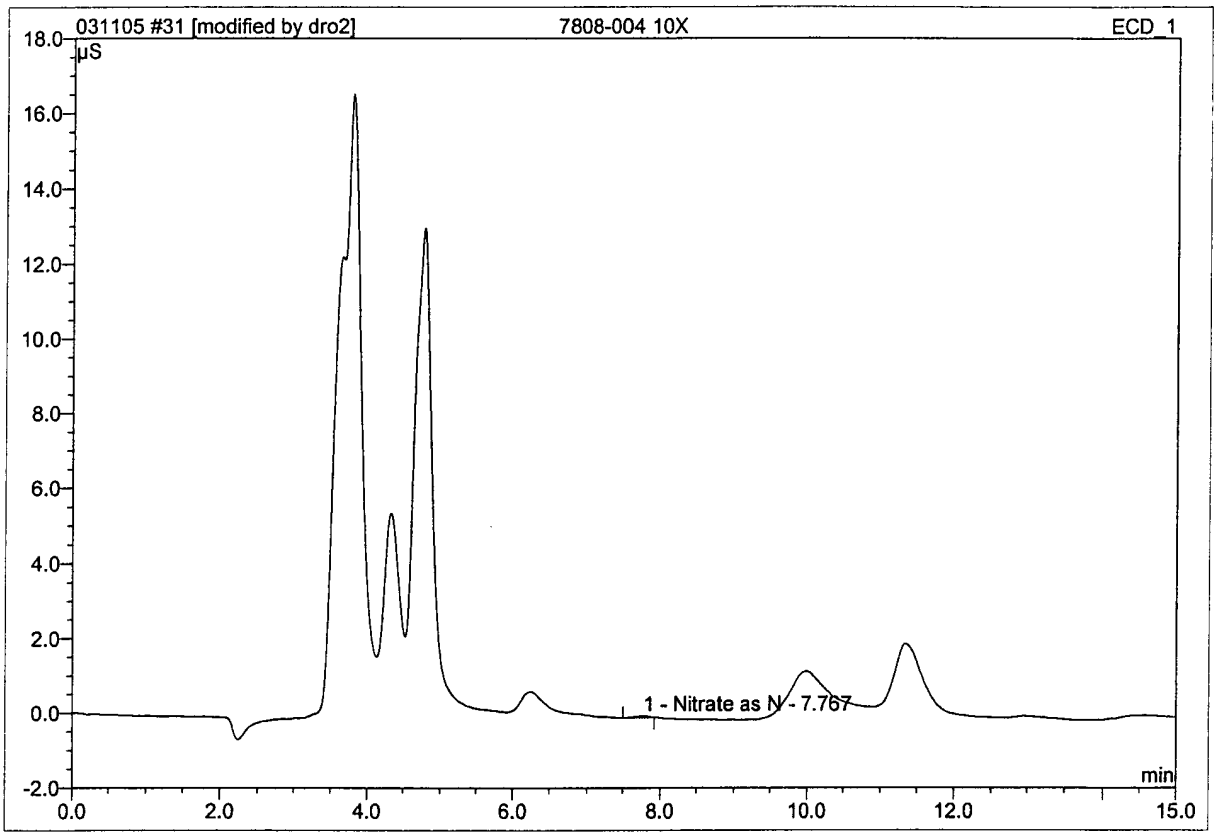
Sample Name:	**7808-004**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 18:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	7.87	Nitrate as N	0.589	0.176	100.00	0.732	BMB*
Total:			0.589	0.176	100.00	0.732	

31 7808-004 10X

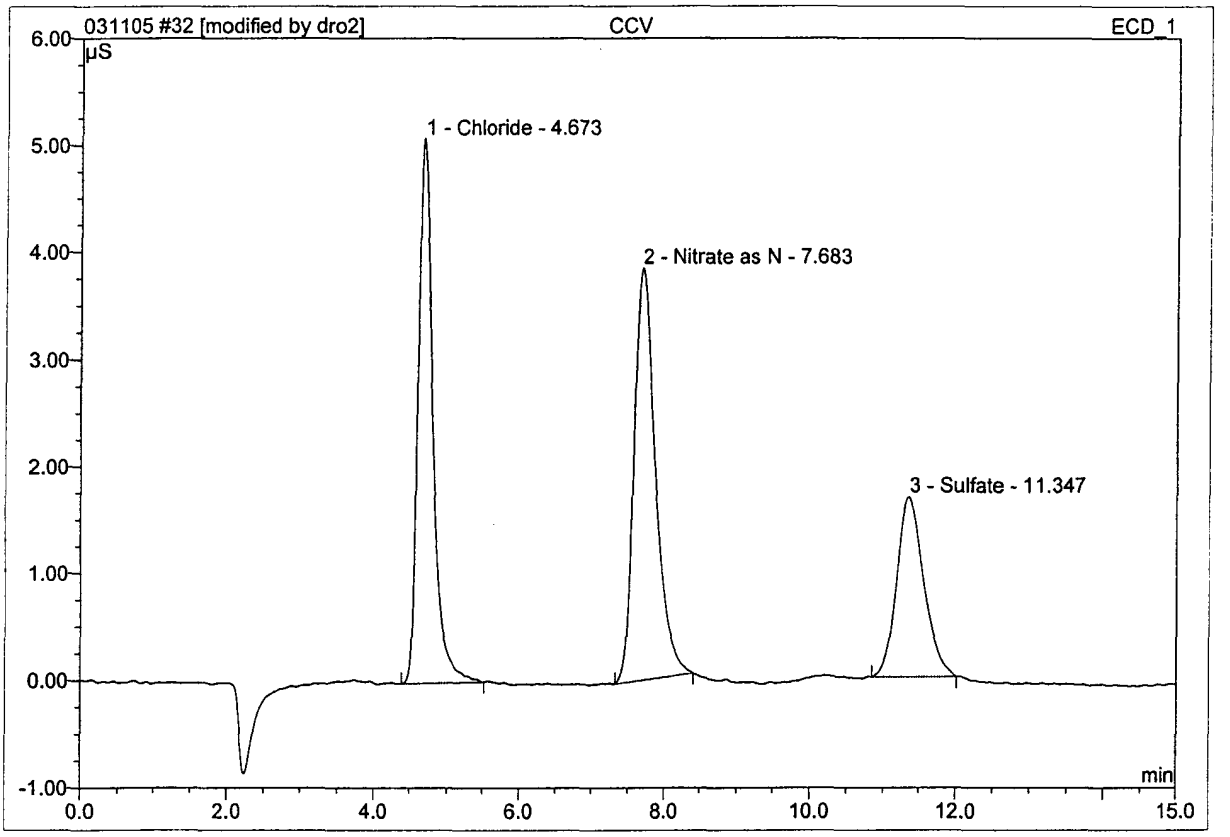
Sample Name:	**7808-004 10X**	*Injection Volume:*	**20.0**
Vial Number:	**31**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 18:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	7.77	Nitrate as N	0.050	0.011	100.00	0.044	BMB
Total:			0.050	0.011	100.00	0.044	

32 CCV

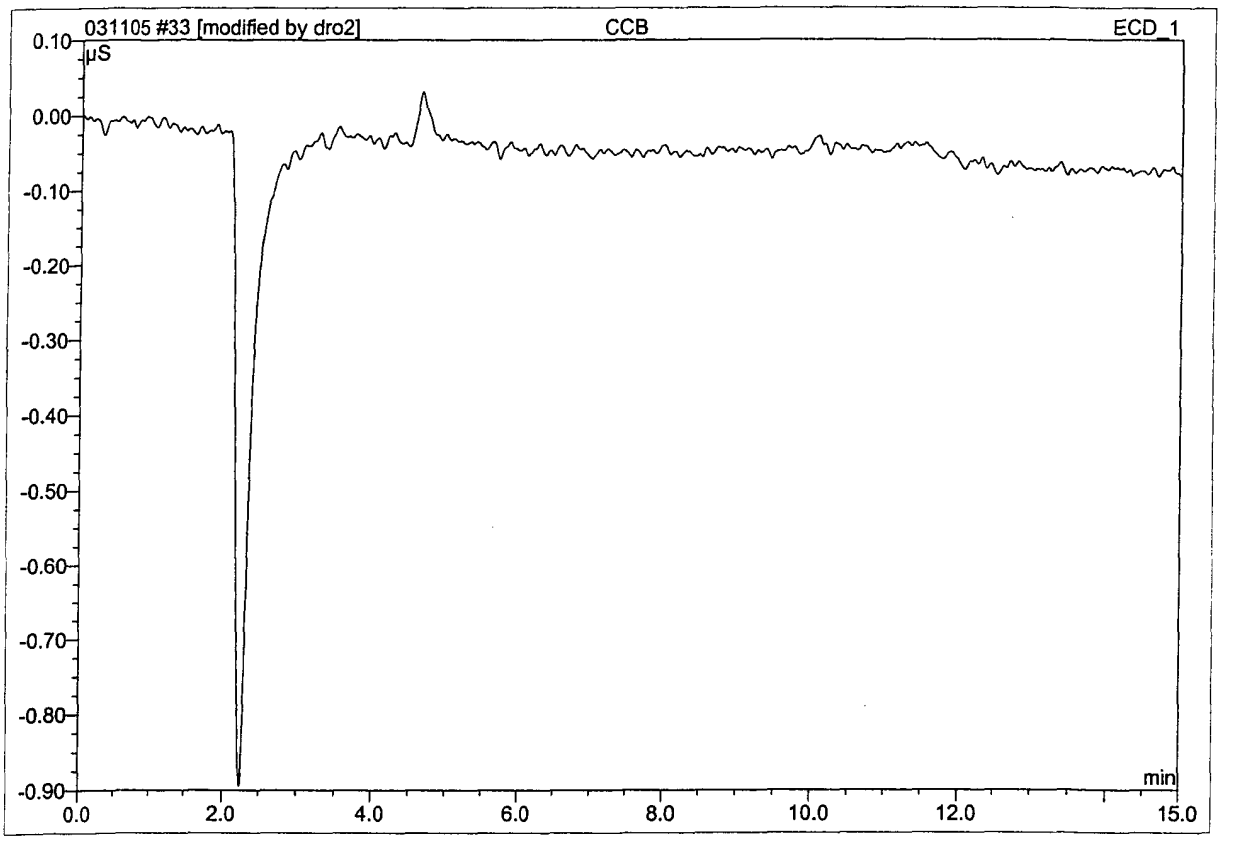
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**32**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 19:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.67	Chloride	5.088	1.162	36.29	10.048	BMB
2	7.68	Nitrate as N	3.847	1.310	40.94	5.440	BMB*
3	11.35	Sulfate	1.684	0.729	22.77	9.687	BMB
Total:			10.619	3.201	100.00	25.175	

33 CCB

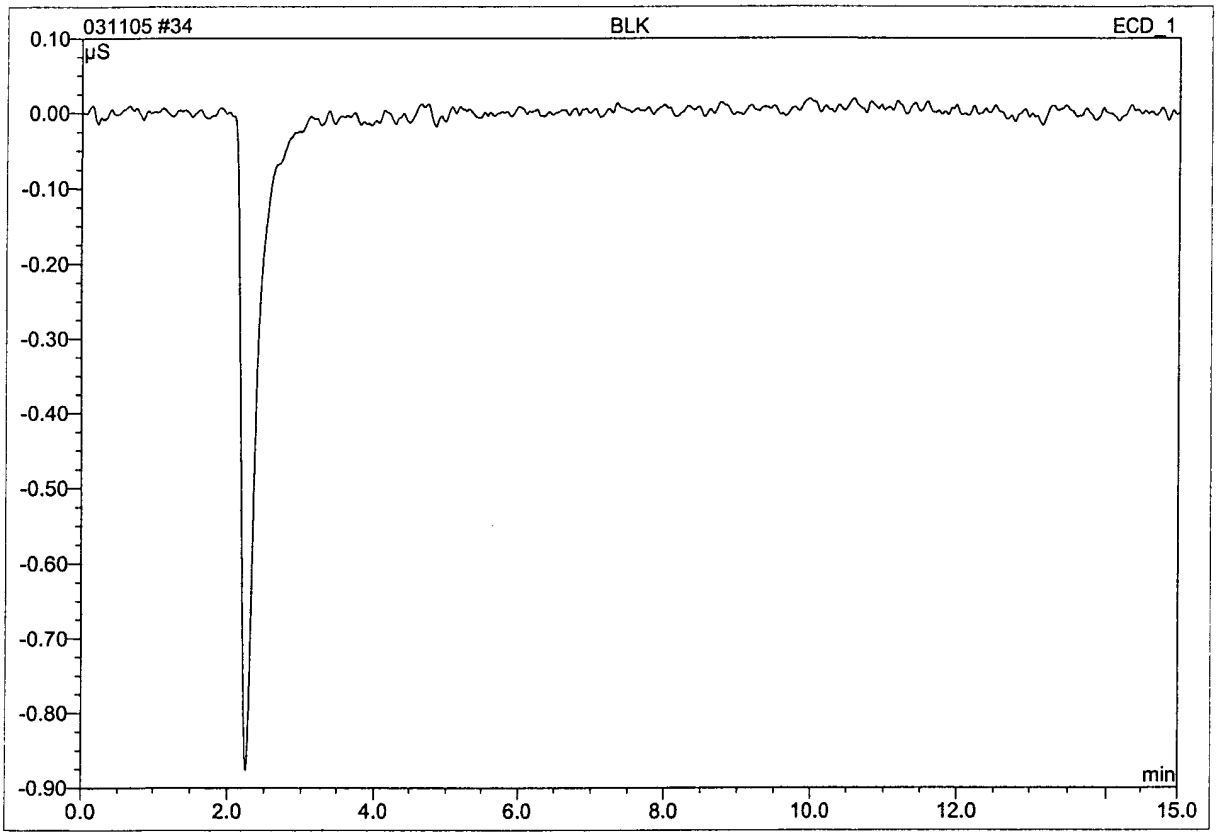
Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**33**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 19:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

34 BLK

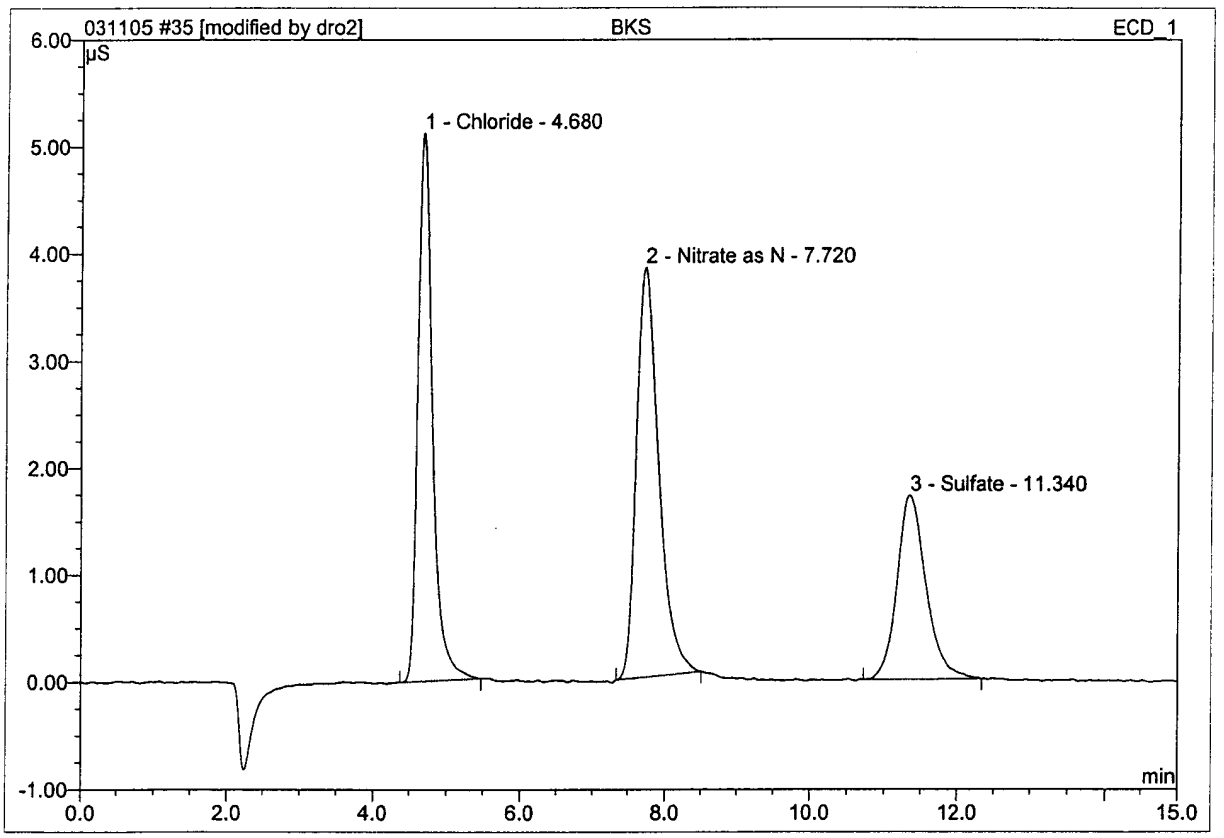
Sample Name:	**BLK**	*Injection Volume:*	**20.0**
Vial Number:	**34**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 19:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

35 BKS

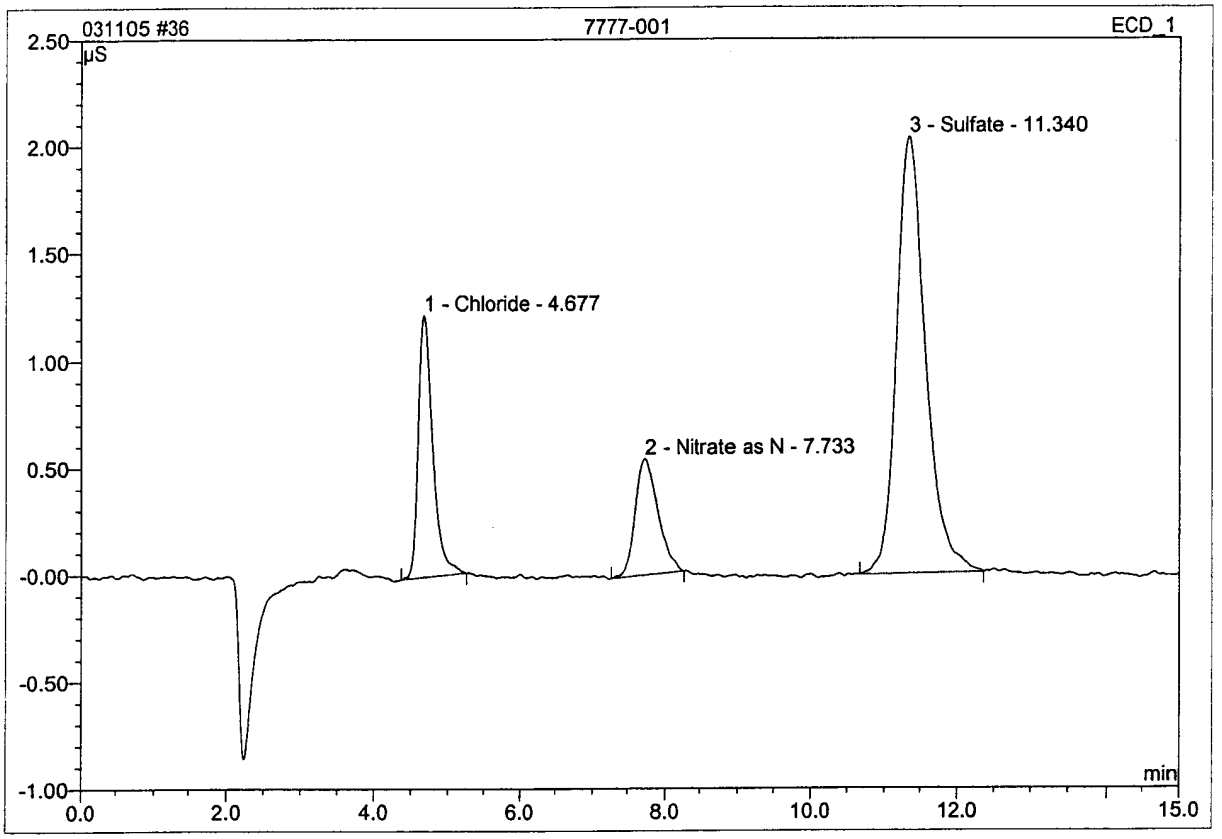
Sample Name:	**BKS**	*Injection Volume:*	**20.0**
Vial Number:	**35**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 20:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	5.124	1.164	35.60	10.068	BMB
2	7.72	Nitrate as N	3.826	1.321	40.41	5.485	BMB*
3	11.34	Sulfate	1.726	0.785	24.00	10.428	BMB
Total:			10.675	3.270	100.00	25.980	

36 7777-001

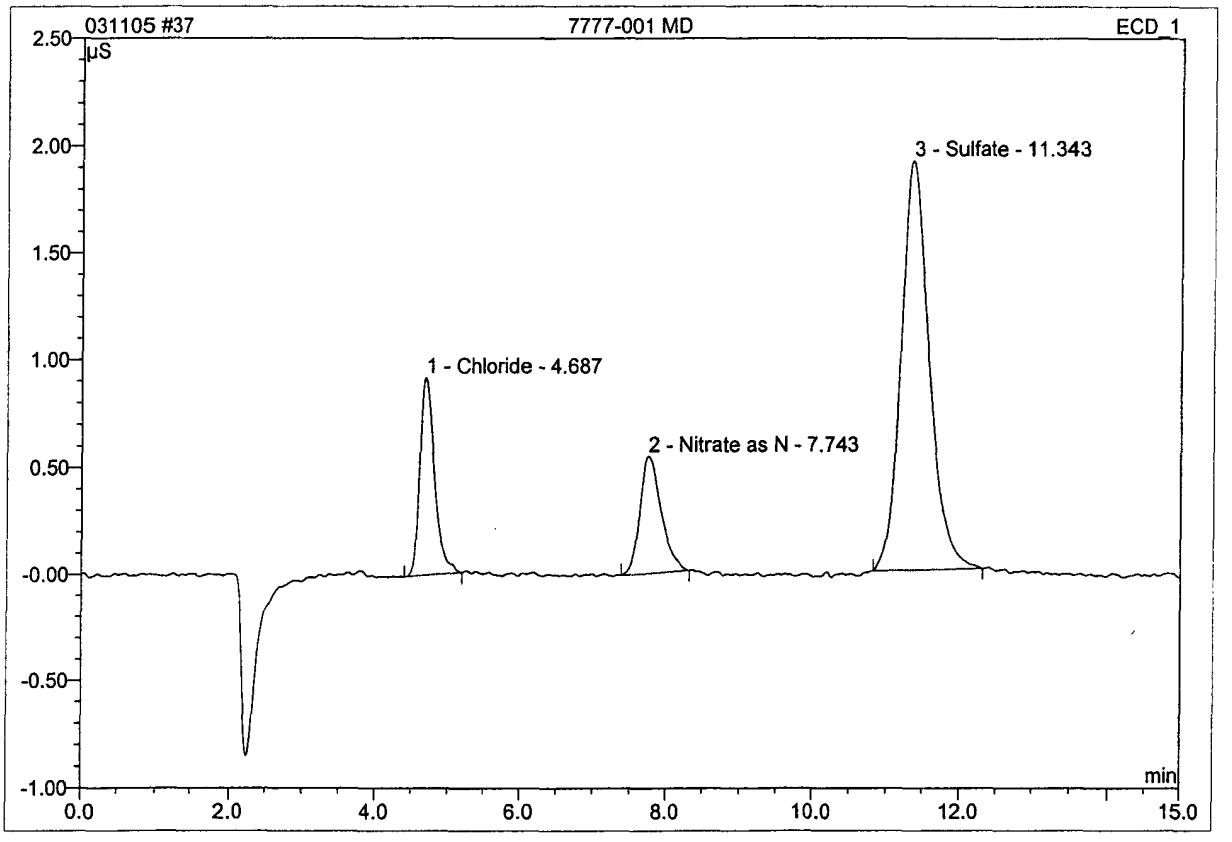
Sample Name:	**7777-001**	*Injection Volume:*	**20.0**
Vial Number:	**36**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 20:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	1.224	0.282	20.10	2.437	BMB
2	7.73	Nitrate as N	0.544	0.190	13.52	0.787	BMB
3	11.34	Sulfate	2.037	0.931	66.38	12.371	BMB
Total:			3.804	1.402	100.00	15.595	

37 7777-001 MD

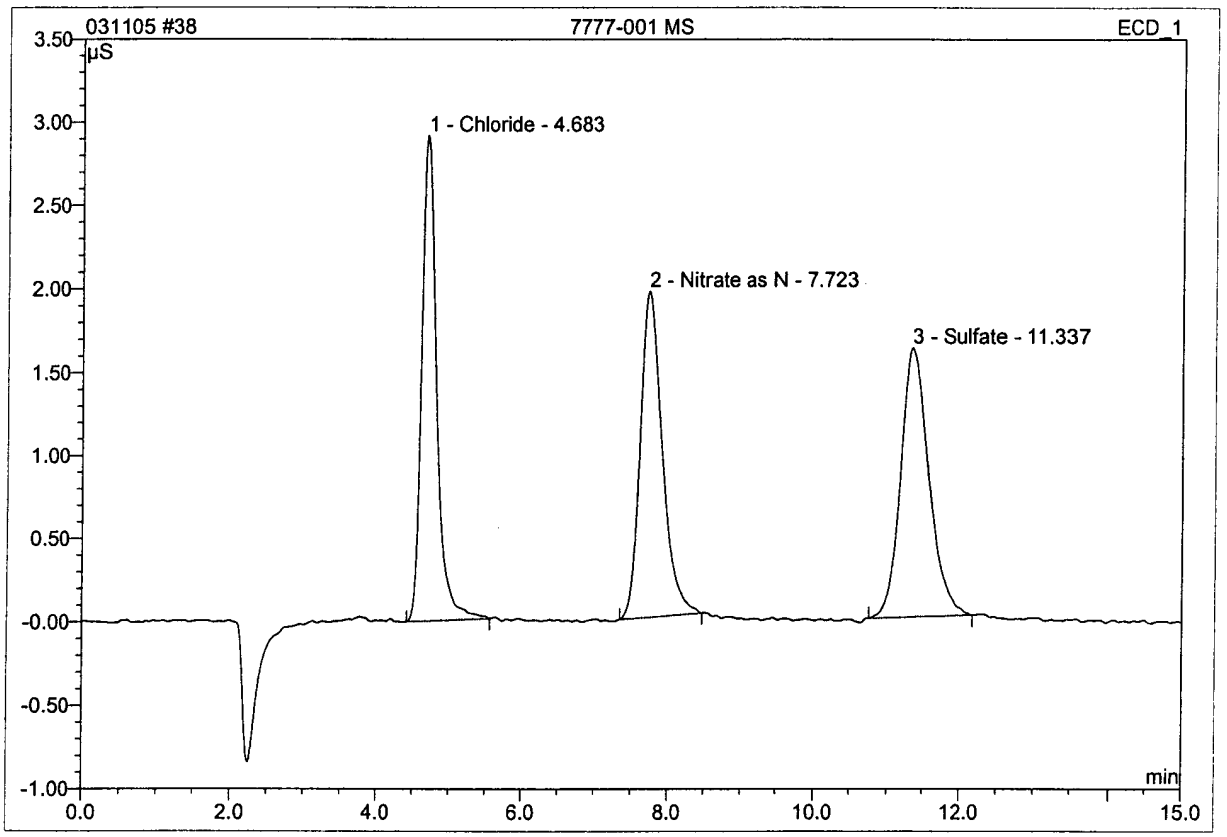
Sample Name:	**7777-001 MD**	*Injection Volume:*	**20.0**
Vial Number:	**37**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 20:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	0.921	0.212	16.87	1.832	BMB
2	7.74	Nitrate as N	0.548	0.188	14.98	0.781	BMB
3	11.34	Sulfate	1.912	0.855	68.15	11.368	BMB
Total:			3.381	1.255	100.00	13.981	

38 7777-001 MS

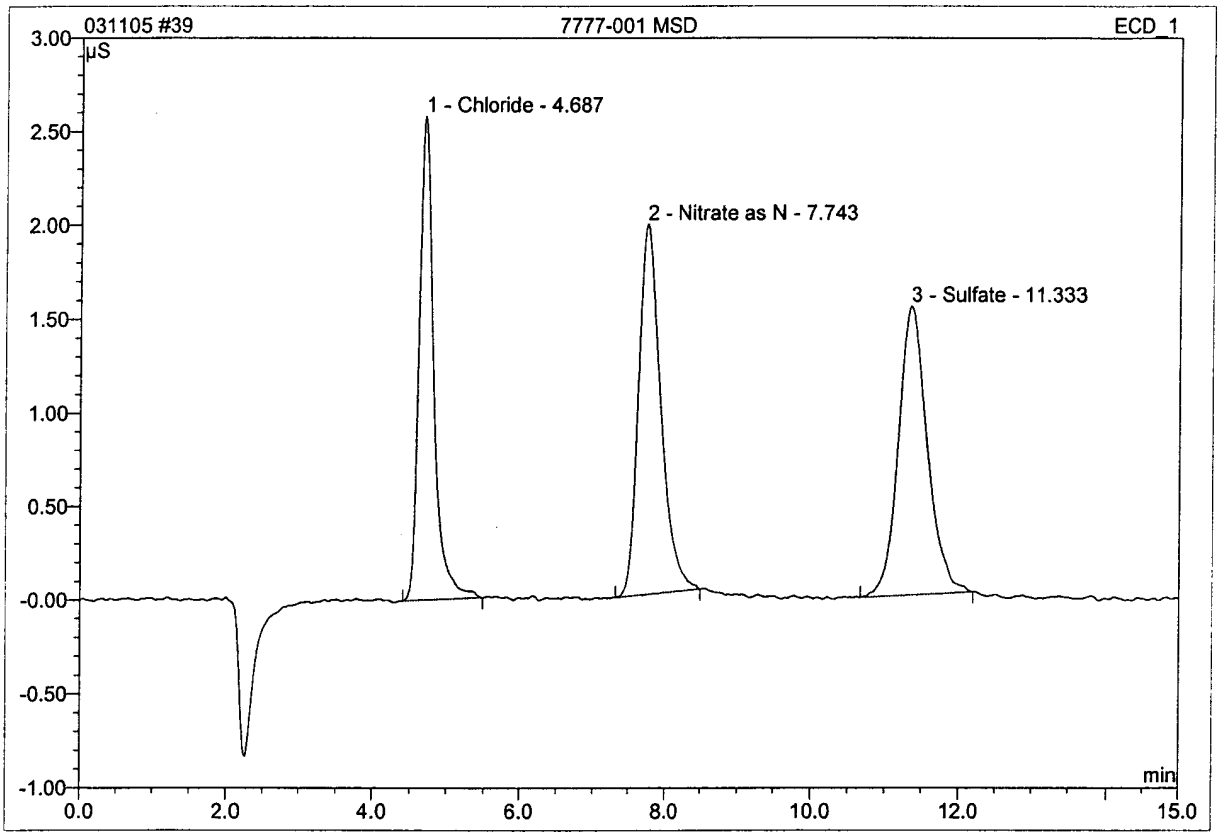
Sample Name:	**7777-001 MS**	*Injection Volume:*	**20.0**
Vial Number:	**38**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 20:58**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	2.914	0.682	32.63	5.897	BMB
2	7.72	Nitrate as N	1.958	0.683	32.66	2.833	BMB
3	11.34	Sulfate	1.619	0.725	34.71	9.639	BMB
Total:			6.491	2.089	100.00	18.369	

39 7777-001 MSD

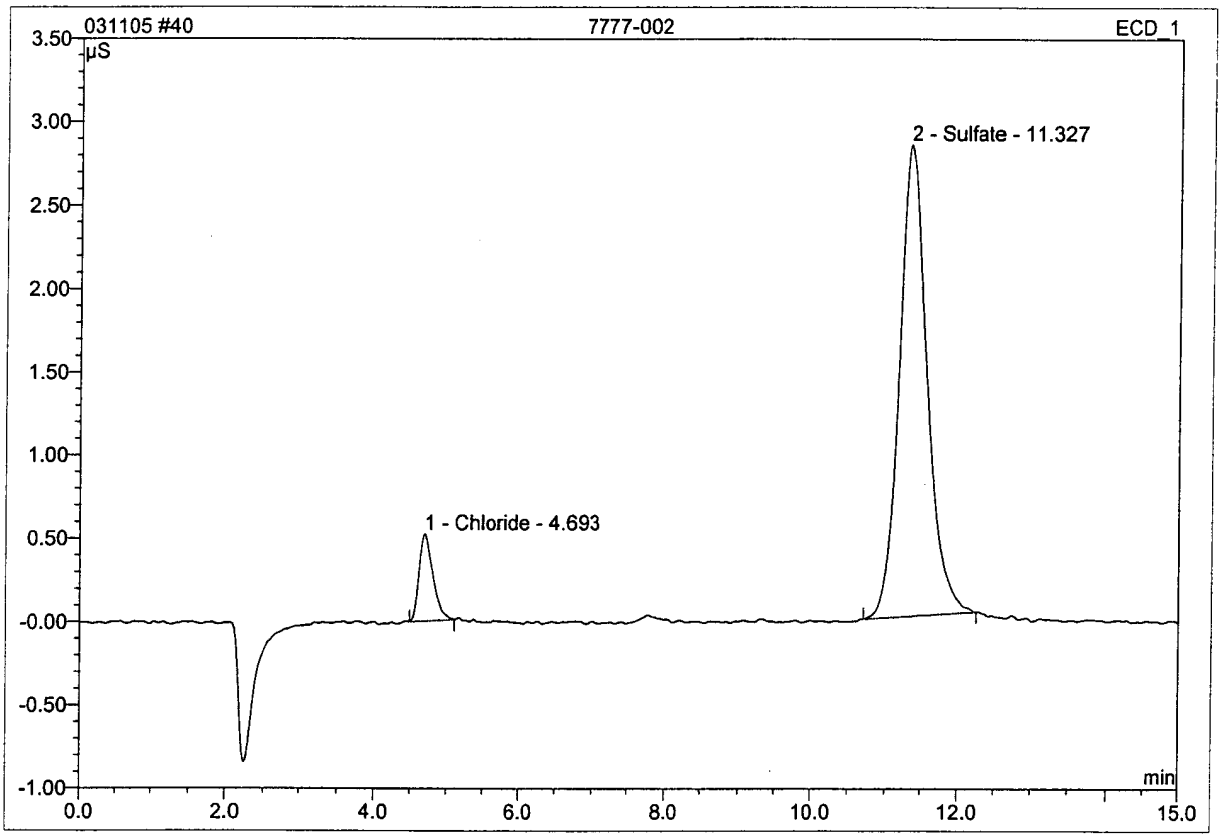
Sample Name:	**7777-001 MSD**	*Injection Volume:*	**20.0**
Vial Number:	**39**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 21:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	2.581	0.607	30.38	5.248	BMB
2	7.74	Nitrate as N	1.975	0.693	34.68	2.875	BMB
3	11.33	Sulfate	1.541	0.698	34.94	9.275	BMB
Total:			6.097	1.997	100.00	17.398	

40 7777-002

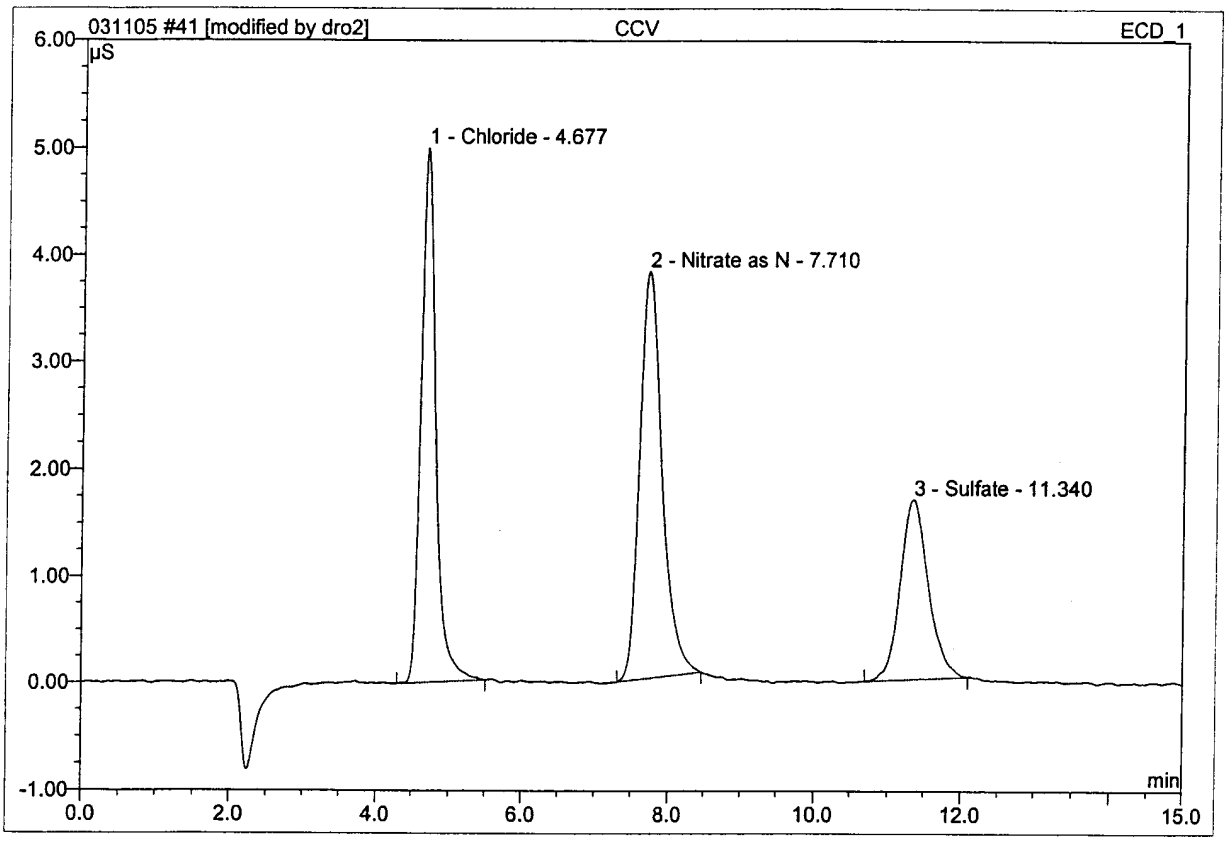
Sample Name:	**7777-002**	*Injection Volume:*	**20.0**
Vial Number:	**40**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 21:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.69	Chloride	0.521	0.118	8.47	1.019	BMB
2	11.33	Sulfate	2.829	1.272	91.53	16.913	BMB
Total:			3.350	1.390	100.00	17.932	

41 CCV

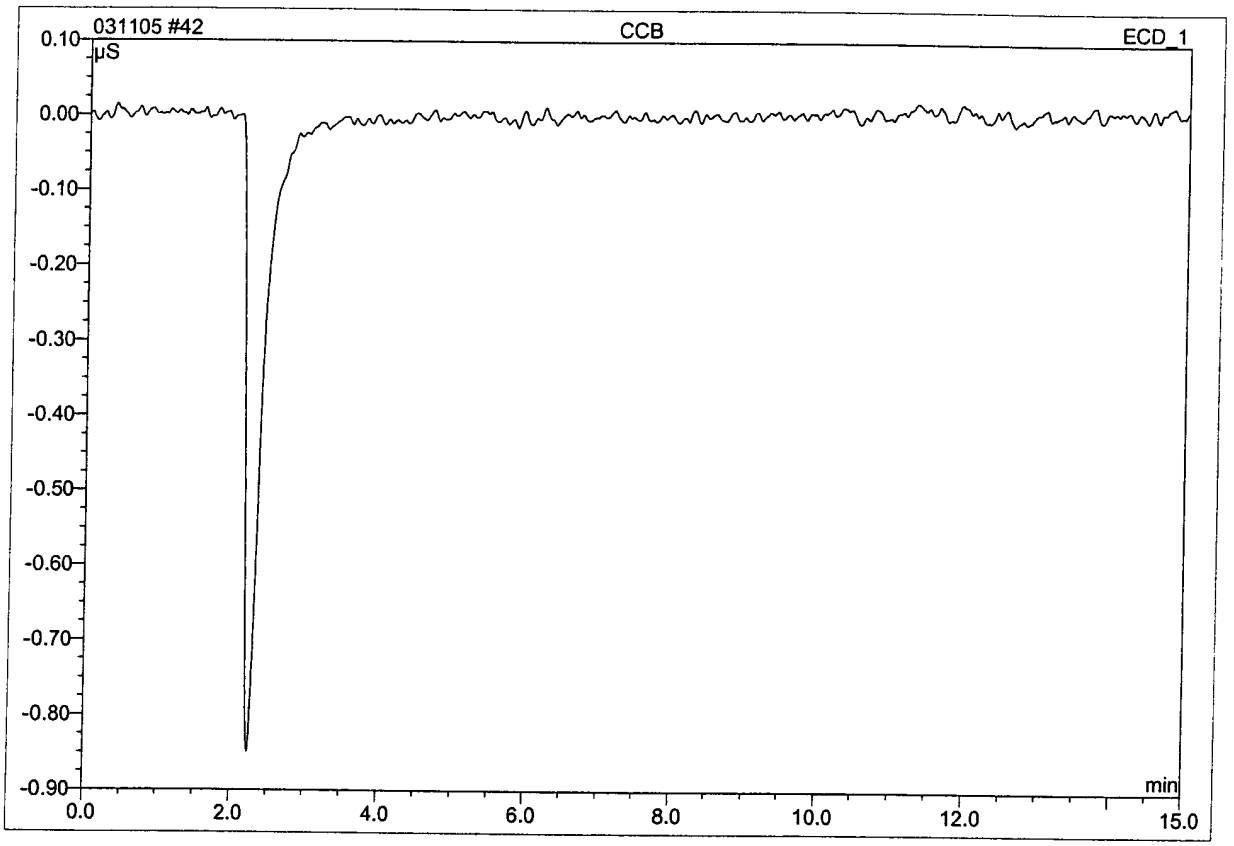
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**41**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 21:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.68	Chloride	4.998	1.154	35.72	9.983	BMB
2	7.71	Nitrate as N	3.806	1.322	40.91	5.488	BMB*
3	11.34	Sulfate	1.684	0.755	23.37	10.037	BMB
Total:			10.488	3.231	100.00	25.508	

42 CCB

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**42**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**new autosampler 010605**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anion_020305**	*Dilution Factor:*	**1.0000**
Recording Time:	**3/11/2005 22:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**
Instrument ID:	**DI-ICA**	*Analyst initials:*	**LJB / BP**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

ACCURA ANALYTICAL LABORATORY, INC

ENVIRONMENTAL ANALYTICAL SERVICES

Wetlab Checklist

Date Due: 3/21/05

Test Method: SW 9060

Project Number: 7765 **Instrument Used:** TOC

ANALYTICAL QUESTIONS

1. Is the Blank <½ the RDL? Y If not, has the RDL been raised or the samples reanalyzed? N/A Has a QNF been written? N/A
2. Are the BKS/BSD within limits? Y If not, why or are the samples being reanalyzed? N/A Has a QNF been written? N/A
3. Duplicate AAL sample number 7738-001
   Is the RPD acceptable? Y If not, was a QNF written? N/A
4. MS/MSD AAL sample number 7738-001
   Are the recoveries acceptable? Y If not, was a QNF written? N/A
5. Sample numbers requiring dilution? N/A
6. Are all special requirements on project sheet completed? Y If unable to complete, has the project manager been notified? N/A
7. Any additional comments? N/A

REVIEWER QUESTIONS

1. Is the ICV within limits for the test method? yes
2. Is the curve acceptable (<0.995 correlation coefficient)? yes
3. Is the correct information with correct sig. figs in Xenco? yes
4. Validated the correct RDL and MDL according to dilution in Xenco yes
5. Verified that all information including QNF present (if required) yes
6. Was the status upgraded to 50 in LIMS? (Yes) No

Analyst calculating results in Xenco LJB Date 3/14/05

Peer Reviewer CKM Date 3/21/05

Peer Reviewer is responsible for the review of all above information.

Total Carbon (TC), Inorganic Carbon (IC), Total Organic Carbon (TOC) Runlog for Water Samples

Sequence Start Date: 3/11/05
Analyst Initials: LJB
Sequence End Date: 3/12/05
Instrument Program: 1
Method Reference: SW 9060

Instrument Conditions	
Flow:	205
Temperature:	684
# Replicates:	4

Calibration Factor: —

A 25818

Lab Sample ID#	Client Sample ID#	ALS#	Matrix	DF	Sparged	Inj. Time	Average	High	Low	Comments
CCV		1	Aq	1X	Yes	16:30	48.38	51.02	47.18	
CCB/BLK		2				16:45	-0.625	-0.471	-.689	
BKS		3				17:00	47.25	47.85	46.48	
7738-001		4				17:15	2.373	2.456	2.093	
-001MD		5				17:30	2.358	2.773	2.168	
-001MS		6				17:45	47.56	49.40	46.75	
-001MSD		7				18:00	49.40	51.05	48.72	
-002		8				18:15	-0.481	-0.219	-0.789	
-003		9				18:30	3.222	3.647	2.722	
-004		10				18:45	1.332	2.094	0.861	
-005		11				19:00	2.895	3.036	2.733	
CCV		12				19:15	48.63	50.44	47.24	
CCB		13				19:30	-0.556	0.545	-0.595	
7738-006		14				19:45	1.89	1.907	1.778	
7739-001		15				20:00	-0.232	-.208	-0.264	
-002		16				20:15	1.882	2.203	1.655	
-003		17				20:30	2.27	2.496	1.993	
-004		18				20:45	1.827	1.978	~~1.99~~	1.641 LJB 3/14/05
7765-001		19				21:00	-0.31	-0.191	-0.433	
-002		20				21:15	0.052	0.192	-0.06	
-003		21				21:30	0.462	0.583	0.156	
-004		22				21:45	-0.333	-0.353	-0.187	
-005		23				21:00	-0.045	0.04	-0.264	
CCV TV=70ppm		24				22:15	65.15	66.6	63.95	
CCB		25				22:30	-0.596	-0.36	-0.913	
7765-006		26				22:45	-0.237	0.026	-0.356	
7765-007		27				23:00	-0.369	-0.496	-0.214	
7766-008		28				23:15	0.185	0.424	-0.051	
7766-009		29				23:30	1.678	1.787	1.496	

Analyst/Date: LJB 3/14/05 Reviewer/Date:

Total Carbon (TC), Inorganic Carbon (IC), Total Organic Carbon (TOC) Runlog for Water Samples

Sequence Start Date:
Analyst Initials:
Sequence End Date:
Instrument Program:
Method Reference: SW 9060

Instrument Conditions	
Flow:	
Temperature:	
# Replicates:	see previous page

Calibration Factor:

Lab Sample ID#	Client Sample ID#	ALS#	Matrix	DF	Sparged	Inj. Time	Average	High	Low	Comments
MB-010		30	Aq	1x	Yes	23:45	2.753	3.200	2.519	
BSD		31				00:00	48.06	49.34	47.43	
CCV		32				00:15	48.03	49.83	47.06	

3/14/05

Analyst/Date: LJB 3/14/05

Reviewer/Date:

1. TC = 51.02 ppm
2. TC = 47.18 ppm
3. TC = 47.83 ppm
4. TC = 47.51 ppm

CCV

1. AVG TC = 48.38 +/- 1.778 % std dev: 3.674
1. TC = -0.471 ppm
2. TC = -0.65 ppm
3. TC = -0.689 ppm
4. TC = -0.689 ppm

CCB/BLK

2. AVG TC = -0.625 +/- 0.104 % std dev: -16.71
1. TC = 47.85 ppm
2. TC = 47.51 ppm
3. TC = 47.15 ppm
4. TC = 46.48 ppm

BKS

3. AVG TC = 47.25 +/- 0.584 % std dev: 1.237
1. TC = 2.456 ppm
2. TC = 2.78 ppm
3. TC = 2.093 ppm
4. TC = 2.163 ppm

7738-001

4. AVG TC = 2.373 +/- 0.313 % std dev: 13.21
1. TC = 2.773 ppm
2. TC = 2.287 ppm
3. TC = 2.168 ppm
4. TC = 2.203 ppm

7738-001 MD

5. AVG TC = 2.358 +/- 0.281 % std dev: 11.94
1. TC = 49.4 ppm
2. TC = 47.35 ppm
3. TC = 46.75 ppm
4. TC = 46.76 ppm

7738-001 MS

6. AVG TC = 47.56 +/- 1.254 % std dev: 2.637
1. TC = 51.05 ppm
2. TC = 49.12 ppm
3. TC = 48.72 ppm
4. TC = 48.72 ppm

7738-001 MSD

7. AVG TC = 49.4 +/- 1.114 % std dev: 2.254
1. TC = -0.219 ppm
2. TC = -0.376 ppm
3. TC = -0.54 ppm
4. TC = -0.789 ppm

7738-002

8. AVG TC = -0.481 +/- 0.244 % std dev: -50.66
1. TC = 3.647 ppm
2. TC = 3.184 ppm
3. TC = 3.336 ppm
4. TC = 2.722 ppm

7738-003

9. AVG TC = 3.222 +/- 0.385 % std dev: 11.95
1. TC = 1.25 ppm
2. TC = 1.124 ppm
3. TC = 2.094 ppm
4. TC = 0.861 ppm

7738-004

10. AVG TC = 1.332 +/- 0.533 % std dev: 40.
1. TC = 3.036 ppm
2. TC = 2.938 ppm
3. TC = 2.873 ppm
4. TC = 2.733 ppm

7738-005

11. AVG TC = 2.895 +/- 0.127 % std dev: 4.389
1. TC = 50.44 ppm
2. TC = 48.57 ppm
3. TC = 47.24 ppm
4. TC = 48.28 ppm

CCV

12. AVG TC = 48.63 +/- 1.333 % std dev: 2.742

1. TC = 0.545 ppm
2. TC = -0.595 ppm CCB
3. TC = -0.696 ppm
4. TC = -0.678 ppm
13. AVG TC = -0.356 +/- 0.602 % std dev: -169.3
1. TC = 1.967 ppm
2. TC = 1.916 ppm 7738-006
3. TC = 1.879 ppm
4. TC = 1.798 ppm
14. AVG TC = 1.89 +/- 0.071 % std dev: 3.759
1. TC = -0.264 ppm
2. TC = -0.208 ppm 7739-001
3. TC = -0.233 ppm
4. TC = -0.223 ppm
15. AVG TC = -0.232 +/- 0.024 % std dev: -10.17
1. TC = 2.203 ppm
2. TC = 2.002 ppm 7739-002
3. TC = 1.668 ppm
4. TC = 1.655 ppm
16. AVG TC = 1.882 +/- 0.268 % std dev: 14.22
1. TC = 2.496 ppm
2. TC = 2.253 ppm 7739-003
3. TC = 2.336 ppm
4. TC = 1.993 ppm
17. AVG TC = 2.27 +/- 0.21 % std dev: 9.267
1. TC = 1.978 ppm
2. TC = 1.786 ppm 7739-004
3. TC = 1.641 ppm
4. TC = 1.903 ppm
18. AVG TC = 1.827 +/- 0.147 % std dev: 8.062
1. TC = -0.198 ppm
2. TC = -0.191 ppm 7765-001
3. TC = -0.419 ppm
4. TC = -0.433 ppm
19. AVG TC = -0.31 +/- 0.134 % std dev: -43.23
1. TC = 0.192 ppm
2. TC = -0.011 ppm 7765-002
3. TC = -0.06 ppm
4. TC = 0.086 ppm
20. AVG TC = 0.052 +/- 0.112 % std dev: 215.8
1. TC = 0.583 ppm
2. TC = 0.574 ppm 7765-003
3. TC = 0.537 ppm
4. TC = 0.156 ppm
21. AVG TC = 0.462 +/- 0.205 % std dev: 44.39
1. TC = -0.187 ppm
2. TC = -0.353 ppm 7765-004
3. TC = -0.326 ppm
4. TC = -0.466 ppm
22. AVG TC = -0.333 +/- 0.115 % std dev: -34.43
1. TC = 0.04 ppm
2. TC = 0.018 ppm
3. TC = 0.026 ppm 7765-005
4. TC = -0.264 ppm
23. AVG TC = -0.045 +/- 0.146 % std dev: -325.2
1. TC = 66.6 ppm
2. TC = 63.95 ppm CCV TV=70ppm
3. TC = 64.57 ppm
4. TC = 65.46 ppm
24. AVG TC = 65.15 +/- 1.151 % std dev: 1.766

1. TC = -0.36 ppm
2. TC = -0.492 ppm CCB
3. TC = -0.619 ppm
4. TC = -0.913 ppm
25. AVG TC = -0.596 +/- 0.236 % std dev: -39.64
1. TC = 0.026 ppm
2. TC = -0.263 ppm
3. TC = -0.376 ppm 7765-006
4. TC = -0.336 ppm
26. AVG TC = -0.237 +/- 0.181 % std dev: -76.44
1. TC = -0.214 ppm
2. TC = -0.233 ppm
3. TC = -0.532 ppm 7765-007 JJB 3/14/05
4. TC = -0.496 ppm
27. AVG TC = -0.369 +/- 0.168 % std dev: -45.7
1. TC = 0.424 ppm
2. TC = 0.229 ppm
3. TC = -0.051 ppm 7766-008
4. TC = 0.14 ppm
28. AVG TC = 0.185 +/- 0.197 % std dev: 106.5
1. TC = 1.774 ppm
2. TC = 1.787 ppm
3. TC = 1.655 ppm 7766-009
4. TC = 1.496 ppm
29. AVG TC = 1.678 +/- 0.135 % std dev: 8.064
1. TC = 3.2 ppm
2. TC = 2.751 ppm
3. TC = 2.541 ppm 7766-010.
4. TC = 2.519 ppm
30. AVG TC = 2.753 +/- 0.316 % std dev: 11.48
1. TC = 49.34 ppm
2. TC = 47.43 ppm BSD
3. TC = 47.76 ppm
4. TC = 47.71 ppm
31. AVG TC = 48.06 +/- 0.864 % std dev: 1.798
1. TC = 49.83 ppm
2. TC = 47.06 ppm
3. TC = 47.78 ppm CCV
4. TC = 47.45 ppm
32. AVG TC = 48.03 +/- 1.239 % std dev: 2.58
35:51:47 Thu Mar 3, 2024

VOA GC/MS DATA CHECKLIST
SW-846-8260B

PROJECT #: 7765	METHOD: 8260B
MATRIX: water	

INITIAL ANALYST ASSESSMENT

Are all standards within expiration dates for both stock and serial standards?	Y	N	NA
Are Tuning results compliant with method?	Y	N	NA
Are all CCC drift results, or target analyte drift results acceptable for CCV?	Y	N	NA
Are all SPCC Response Factors acceptable for CCV?	Y	N	NA
Are all CCV Internal Standard areas within -50% to +100% of initial calibration midlevel standard?	Y	N	NA
Are all CCV Internal Standard retention times within 30 seconds of initial cal. midlevel standard?	Y	N	NA
Are all sample Internal Standard areas w/in -50% to +100% of that in the CCV?	Y	N	NA
Are all sample Internal Standard retention times w/in 30 seconds of that in the CCV?	Y	N	NA
Is/Are blank result(s) less than 1/2 RDL for all analytes of interest?	Y	N	NA
Are all spike recoveries acceptable for the LCS?	Y	N	NA
If all spike recoveries were not acceptable, was a Quality Notice Form completed?	Y	N	NA
Are all surrogate standard recoveries acceptable (Blank, LCS, samples)?	Y	N	NA
If Internal Standard, surrogate, or LCS are unacceptable was re-injection performed to confirm?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
If sample analyses were not performed within holding times, was a Quality Notice Form completed?	Y	N	NA
Were analyses performed such that carryover was not a problem?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	NA
Are all requested analytes below the upper calibration limit?	Y	N	NA
If interfering ions are present, was identification made by looking at characteristic ions only?	Y	N	NA
Was the Modified 5035 method used? Was a Temporary Method Deviation form completed?	Y	N	NA
Were TICS required? If so, were steps in section 7.6.2 followed in 8260B?	Y	N	NA
Are pHs recorded for all water samples?	Y	N	NA
Have the samples been reviewed, and all false positives deleted?	Y	N	NA
Are all samples and supporting data (QNF, QC Charts, Runlog and Batchbook Copies) in the folder?	Y	N	NA

Analyst: QE

Date: 4/4/05 Time: 11:00

PEER REVIEW

Are Tuning results compliant with method?	Y	N	NA
Are all CCC drift results and SPCC Response Factors acceptable for CCV?	Y	N	NA
Are all CCV Internal Standard areas and retention times within method limits?	Y	N	NA
Are all sample Internal Standard areas and retention times within method limits?	Y	N	NA
Are all blank and QC results acceptable?	Y	N	NA
Are all surrogate standard recoveries acceptable?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	NA
Are all calculations correct and reported in the proper units?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
Is the run log completely filled out (including review signature/date)?	Y	N	NA
Are pHs recorded for all water samples?	Y	N	NA
Are all applicable runlog sheets signed, dated, and included?	Y	N	NA
Have all samples and supporting data been included in the folder?	Y	N	NA
Have all LIMS entries been checked for accuracy?	Y	N	NA

Reviewer: RPS

Date: 04/04/05 Time: 12:10

Injection Log

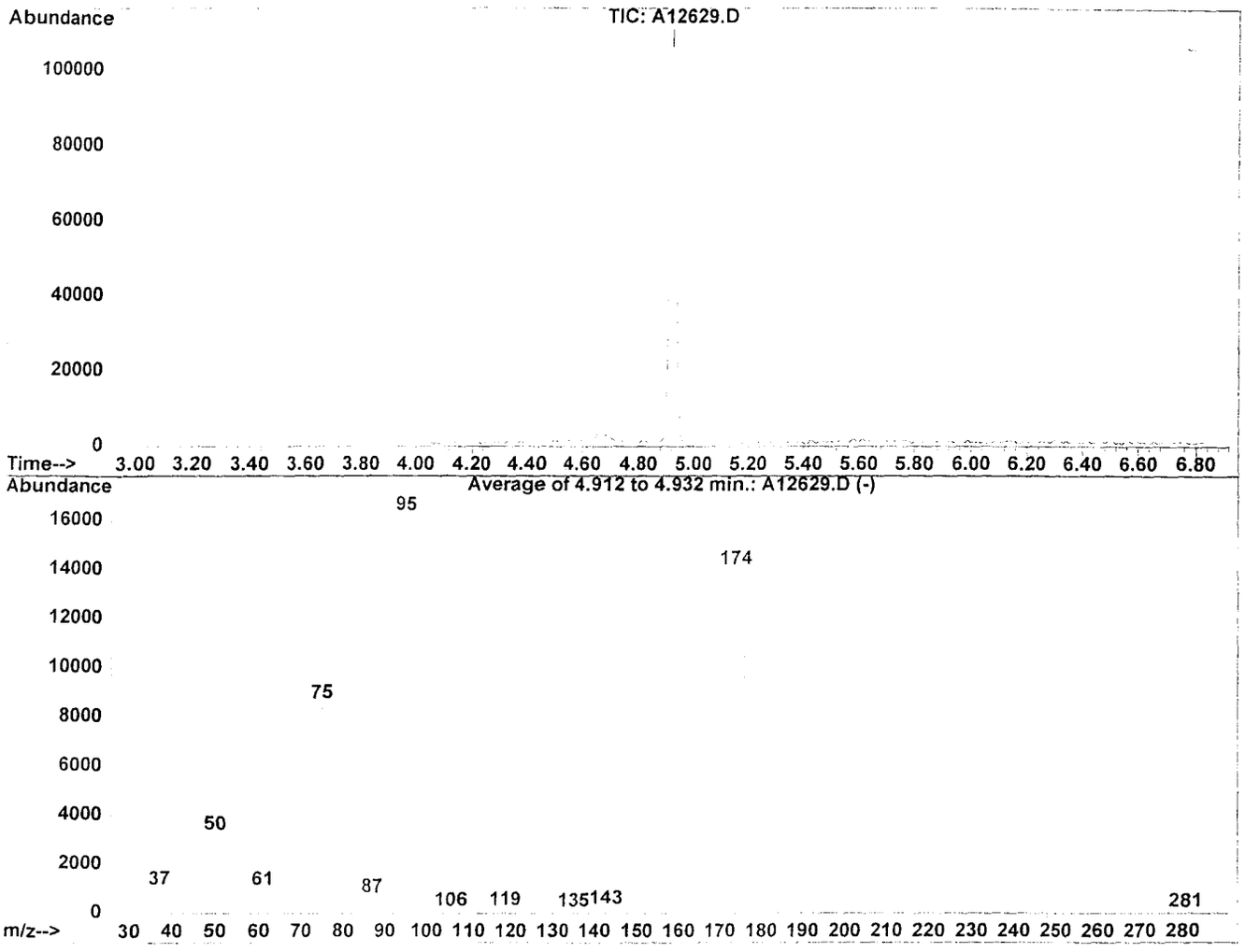
Directory: c:\hpchem\1\data\a030705

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	a12629.d	1.	VTUNA36		7 Mar 05 10:15
2	1	a12630.d	1.	VSTD050A37	CCV	7 Mar 05 10:39
3	2	a12631.d	1.	VIBLK	BLK	7 Mar 05 11:07
4	2	a12632.d	1.	BLK	5mL DF=1	7 Mar 05 11:44
5	1	a12633.d	1.	BKS	5mL DF=1	7 Mar 05 12:19
6	2	a12634.d	1.	VIBLK	5mL DF=1	7 Mar 05 12:47
7	2	a12635.d	1.	7759-001 MW-24B-46	5mL DF=1	7 Mar 05 13:27
8	3	a12636.d	1.	7759-002 MW-31-46	5mL DF=1	7 Mar 05 13:55
9	4	a12637.d	1.	7759-003 MW-25B-46	5mL DF=1	7 Mar 05 14:22
10	5	a12638.d	1.	7759-004 MW-38-46	5mL DF=1	7 Mar 05 14:50
11	6	a12639.d	1.	7759-005 EB-02-46	5mL DF=1	7 Mar 05 15:18
12	7	a12640.d	1.	7759-006 FB-02-46	5mL DF=1	7 Mar 05 15:45
13	8	a12641.d	1.	7759-007 TRIP BLANK	5mL DF=1	7 Mar 05 16:13
14	9	a12642.d	1.	7765-001 BRN-1140-MW27-6	5mL DF=1	7 Mar 05 16:41
15	10	a12643.d	1.	7765-001MS BRN-1140-MW27-6MS	5mL DF=1	7 Mar 05 17:09
16	11	a12644.d	1.	7765-001MSD BRN-1140-MW27-6MSD	5mL DF=1	7 Mar 05 17:37
17	12	a12645.d	1.	7765-002 BRN-1140-MW18-6	5mL DF=1	7 Mar 05 18:04
18	13	a12646.d	1.	7765-003 BRN-1140-MW24-6	5mL DF=1	7 Mar 05 18:32
19	14	a12647.d	1.	7765-004 BRN-1140-MW16R-6	5mL DF=1	7 Mar 05 19:00
20	1	a12648.d	1.	7765-005 BRN-1140-MW7-6	5mL DF=1	7 Mar 05 19:28
21	2	a12649.d	1.	7765-006 BRN-1140-MW28-6	5mL DF=1	7 Mar 05 19:55
22	3	a12650.d	1.	7765-007 BRN-1140-MW32-6	5mL DF=1	7 Mar 05 20:23
23	4	a12651.d	1.	7765-008 TRIP BLANK	5mL DF=1	7 Mar 05 20:51
24	5	x00001.d	1.	INSTR BLK	5mL DF=1	7 Mar 05 21:19
25	6	x00002.d	1.	INSTR BLK	5mL DF=1	8 Mar 05 10:11

25377/25757

BFB

Data File : C:\HPCHEM\1\DATA\A030705\A12629.D Vial: 1
Acq On : 7 Mar 2005 10:15 Operator: RPS
Sample : VTUNA36 Inst : HP-MSA
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :



AutoFind: Scans 91, 92, 93; Background Corrected with Scan 86

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	3189	PASS
75	95	30	66	52.7	8527	PASS
95	95	100	100	100.0	16183	PASS
96	95	5	9	7.3	1179	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.4	13980	PASS
175	174	4	9	6.1	849	PASS
176	174	95	101	98.9	13820	PASS
177	176	5	9	7.1	980	PASS

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\A030705\A12629.D
Tune Time : 7 Mar 2005 10:15

Daily Calibration File : C:\HPCHEM\1\DATA\A030705\A12630.D

					491710	671955	394796
File	Sample	Surrogate Recovery %			Internal Standard Responses		
A12630.D	VSTD050A	90	95	86	491710	671955	394796
A12632.D	BLK	102	101	91	428474	585382	343523
A12633.D	BKS	93	94	86	443881	593757	348624
A12635.D	7759-001	103	99	93	402314	546167	317443
A12636.D	7759-002	101	100	89	401945	538464	317898
A12637.D	7759-003	102	100	90	408624	545099	314633
A12638.D	7759-004	100	98	89	387810	515284	304213
A12639.D	7759-005	102	99	87	362127	488227	292759
A12640.D	7759-006	97	96	86	381989	507996	302667
A12641.D	7759-007	103	99	87	365423	508108	305485
A12642.D	7765-001	103	99	90	364328	505358	298570
A12643.D	7765-001	95	98	86	381252	491548	298371
A12644.D	7765-001	96	96	89	378179	509899	300048
A12645.D	7765-002	99	98	89	367265	502616	298676
A12646.D	7765-003	100	99	90	364792	495369	293218
A12647.D	7765-004	103	98	89	366512	511463	301201
A12648.D	7765-005	104	100	92	374595	503874	292782
A12649.D	7765-006	104	98	90	370097	493497	290355
A12650.D	7765-007	102	98	89	379147	507682	290437
A12651.D	7765-008	107	99	93	360651	485824	272605

t - fails 12hr time check * - fails criteria

Created: Thu Mar 10 15:01:23 2005 HP-MSA

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12630.D Vial: 1
Acq On : 7 Mar 2005 10:39 Operator: RPS
Sample : VSTD050A37 Inst : HP-MSA
Misc : CCV Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 10:56 19105 Quant Results File: 0307BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

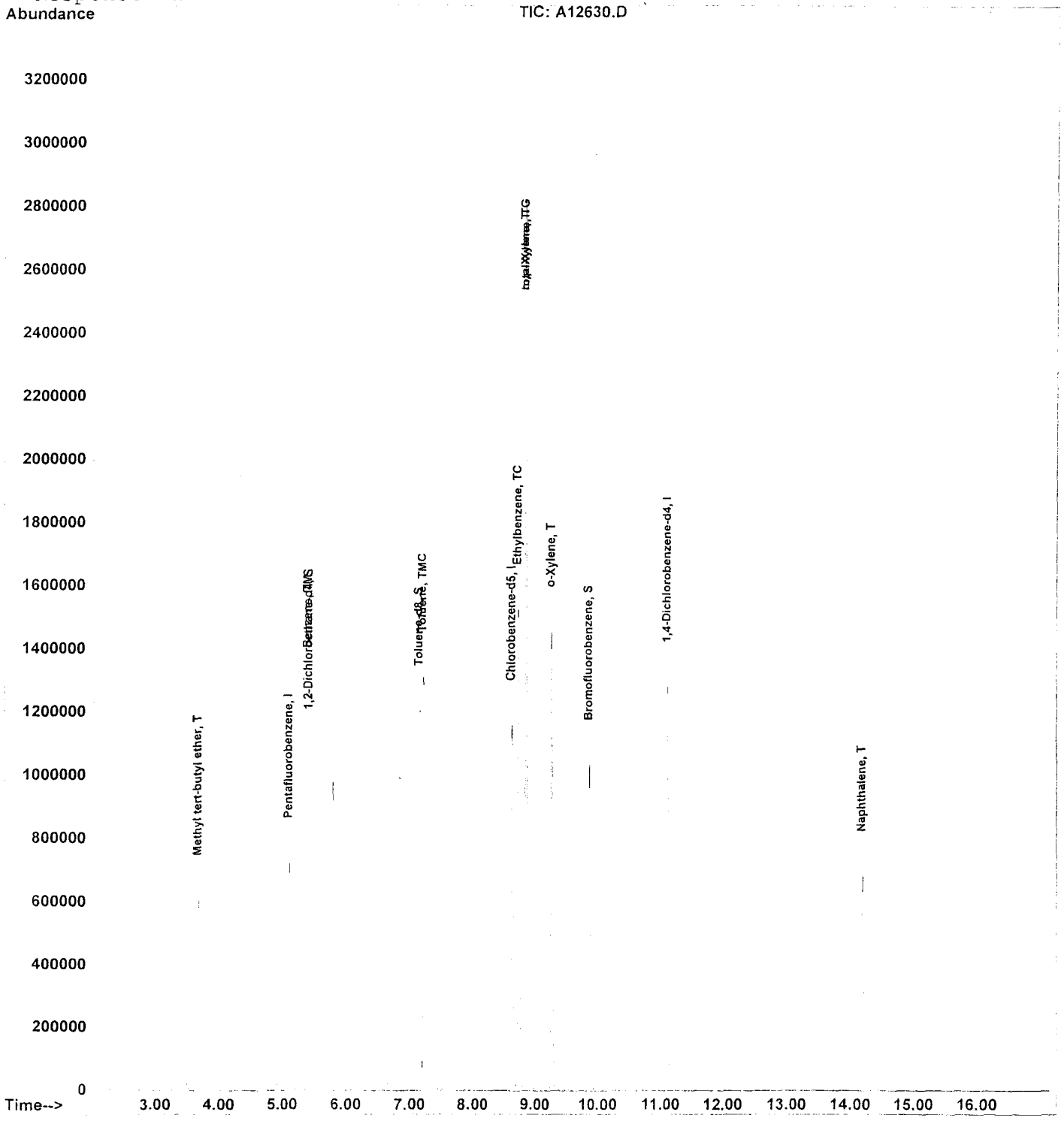
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.12	168	491710	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.64	117	671955	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.12	152	394796	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.43	65	323662	44.86	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 89.72%			
6) Toluene-d8	7.16	98	818893	47.54	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.08%			
13) Bromofluorobenzene	9.87	95	360226	43.19	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 86.38%			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	621057	43.41	ug\L	99
4) Benzene	5.42	78	866407	44.71	ug\L	100
7) Toluene	7.22	91	955885	44.61	ug\L	99
8) Ethylbenzene	8.73	91	1137413	45.27	ug\L	100
9) m,p-Xylene	8.86	106	803098	89.12	ug\L	99
10) o-Xylene	9.28	106	401738	46.48	ug\L	99
11) total-Xylene	8.86	106	1203200m	137.52	ug\L	
14) Naphthalene	14.19	128	881845	47.51	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12630.D Vial: 1
Acq On : 7 Mar 2005 10:39 Operator: RPS
Sample : VSTD050A37 Inst : HP-MSA
Misc : CCV Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 10:56 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12642.D Vial: 9
Acq On : 7 Mar 2005 16:41 Operator: RPS
Sample : 7765-001 BRN-1140-MW27-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 11:34 19105 Quant Results File: 0307BTEX.RES

Quant Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

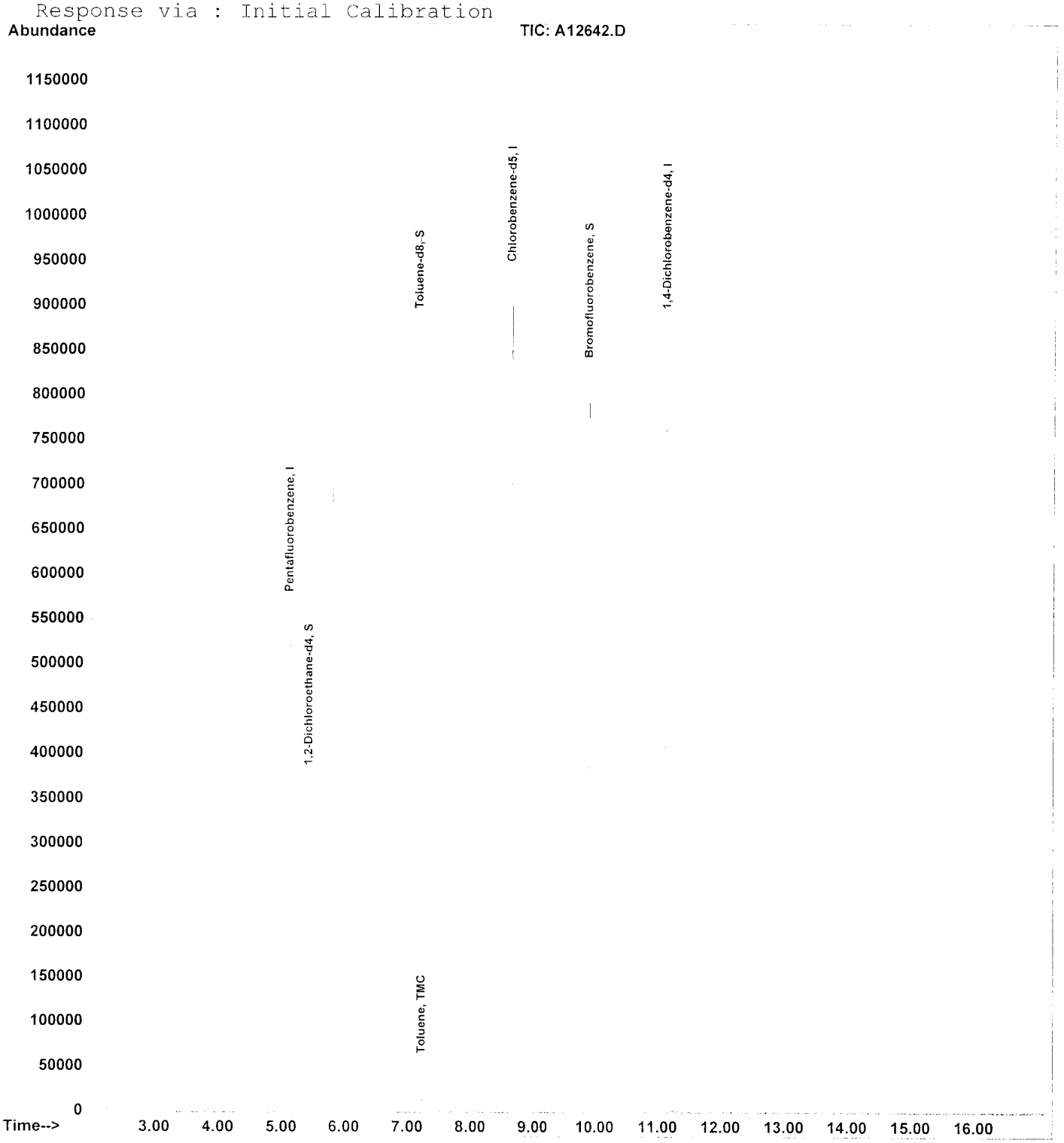
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.14	168	364328	50.00	ug\L	0.02
5) Chlorobenzene-d5	8.65	117	505358	50.00	ug\L	0.02
12) 1,4-Dichlorobenzene-d4	11.14	152	298570	50.00	ug\L	0.02
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.45	65	276138	51.66	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.32%			
6) Toluene-d8	7.18	98	640782	49.46	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.92%			
13) Bromofluorobenzene	9.89	95	283771	44.99	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 89.98%			
Target Compounds						Qvalue
7) Toluene	7.24	91	4008m	0.25	ug\L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12642.D Vial: 9
Acq On : 7 Mar 2005 16:41 Operator: RPS
Sample : 7765-001 BRN-1140-MW27-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 11:34 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12645.D Vial: 12
Acq On : 7 Mar 2005 18:04 Operator: RPS
Sample : 7765-002 BRN-1140-MW18-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 18:22 19105 Quant Results File: 0307BTEX.RES

Quant Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

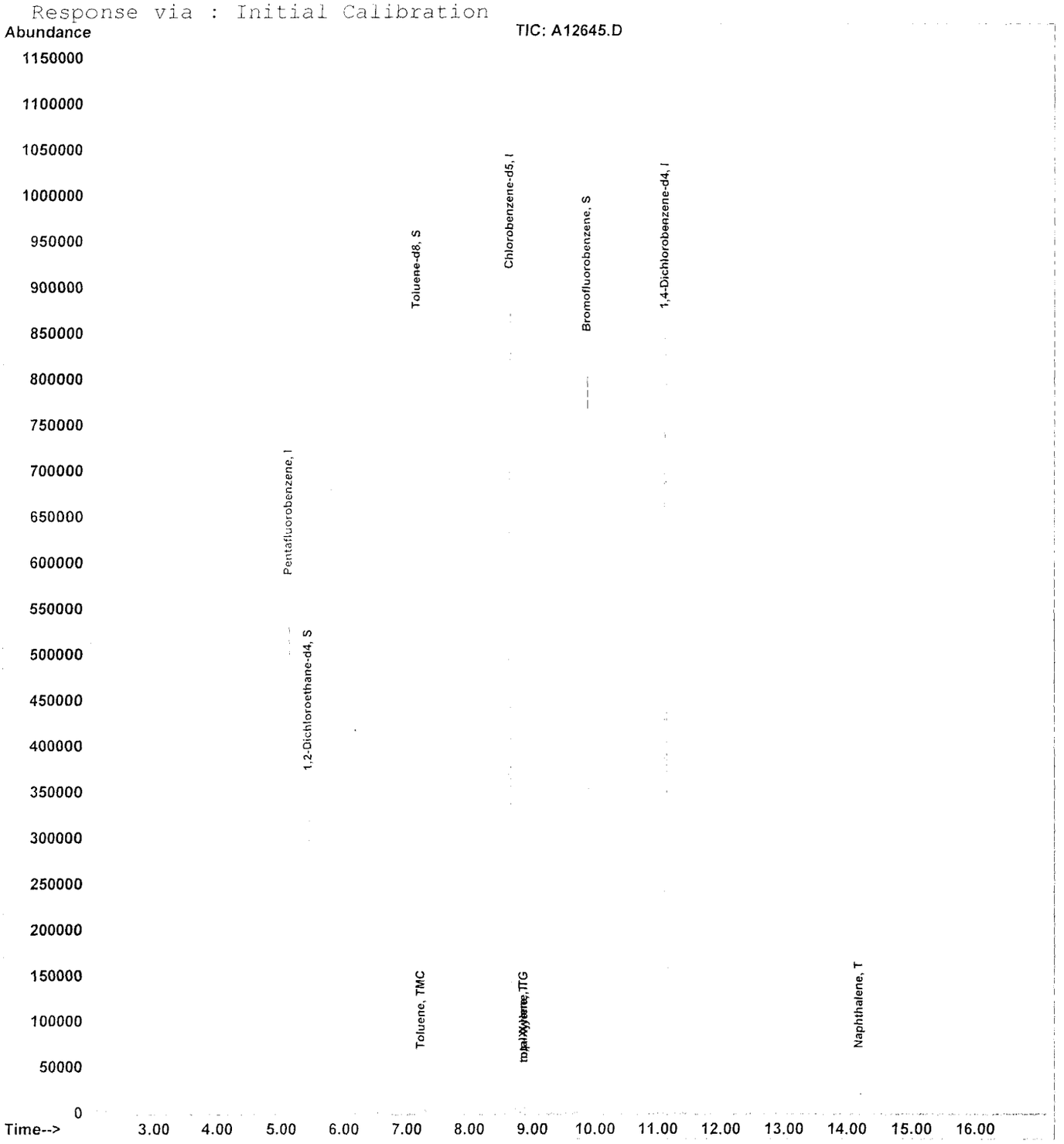
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.14	168	367265	50.00 ug\L	0.02
5) Chlorobenzene-d5	8.65	117	502616	50.00 ug\L	0.02
12) 1,4-Dichlorobenzene-d4	11.14	152	298676	50.00 ug\L	0.02
System Monitoring Compounds					
3) 1,2-Dichloroethane-d4	5.46	65	265867	49.34 ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.68%		
6) Toluene-d8	7.18	98	630634	48.94 ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.88%		
13) Bromofluorobenzene	9.89	95	281742	44.65 ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 89.30%		
Target Compounds					Qvalue
7) Toluene	7.25	91	10312	0.64 ug\L	98
9) m,p-Xylene	8.88	106	2157	0.32 ug\L	96
11) total-Xylene	8.88	106	3442m	0.53 ug\L	
14) Naphthalene	14.22	128	31925	2.27 ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12645.D Vial: 12
Acq On : 7 Mar 2005 18:04 Operator: RPS
Sample : 7765-002 BRN-1140-MW18-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 18:22 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12646.D Vial: 13
Acq On : 7 Mar 2005 18:32 Operator: RPS
Sample : 7765-003 BRN-1140-MW24-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 18:49 19105 Quant Results File: 0307BTEX.RES

Quant Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

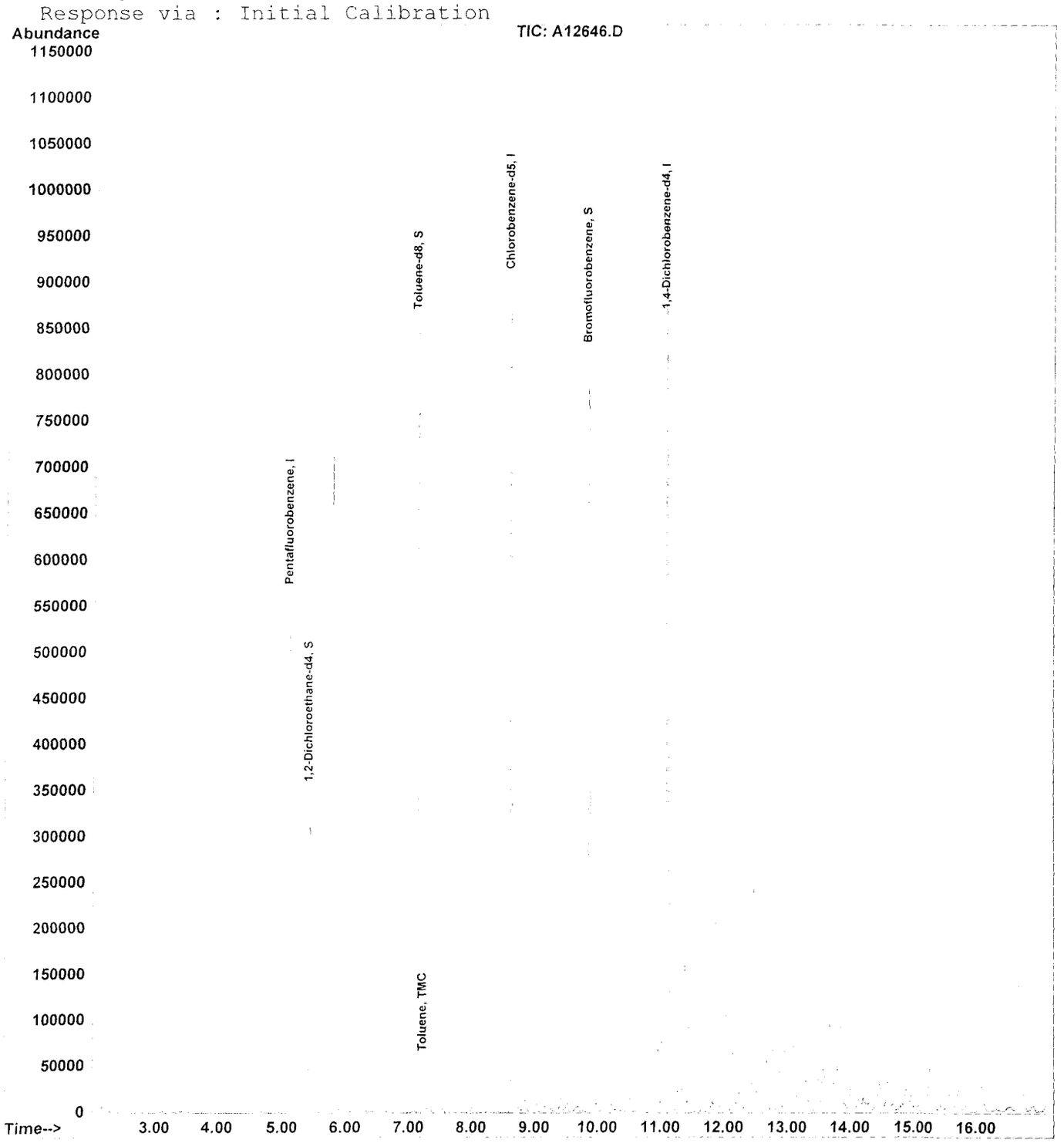
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.14	168	364792	50.00	ug\L	0.02
5) Chlorobenzene-d5	8.65	117	495369	50.00	ug\L	0.02
12) 1,4-Dichlorobenzene-d4	11.14	152	293218	50.00	ug\L	0.02
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.46	65	268028	50.08	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.16%			
6) Toluene-d8	7.18	98	626404	49.32	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.64%			
13) Bromofluorobenzene	9.89	95	278537	44.96	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 89.92%			
Target Compounds						Qvalue
7) Toluene	7.25	91	5918	0.37	ug\L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12646.D Vial: 13
Acq On : 7 Mar 2005 18:32 Operator: RPS
Sample : 7765-003 BRN-1140-MW24-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 18:49 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12647.D Vial: 14
Acq On : 7 Mar 2005 19:00 Operator: RPS
Sample : 7765-004 BRN-1140-MW16R-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 19:17 19105 Quant Results File: 0307BTEX.RES

Quant Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

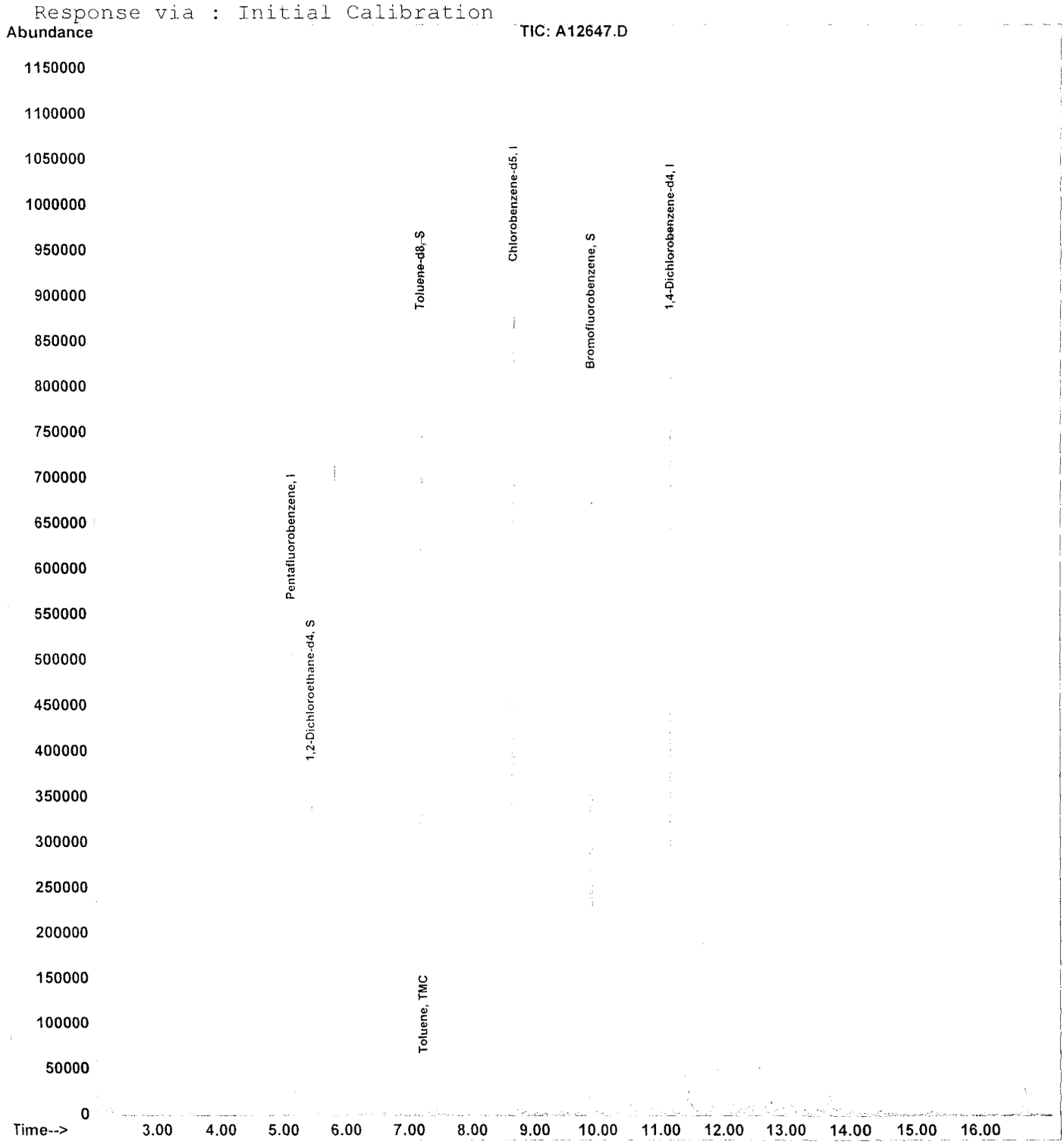
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.14	168	366512	50.00	ug\L	0.02
5) Chlorobenzene-d5	8.66	117	511463	50.00	ug\L	0.02
12) 1,4-Dichlorobenzene-d4	11.14	152	301201	50.00	ug\L	0.02
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.46	65	276943	51.50	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.00%			
6) Toluene-d8	7.18	98	643108	49.05	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.10%			
13) Bromofluorobenzene	9.89	95	283817	44.60	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 89.20%			
Target Compounds						Qvalue
7) Toluene	7.25	91	5603	0.34	ug\L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12647.D Vial: 14
Acq On : 7 Mar 2005 19:00 Operator: RPS
Sample : 7765-004 BRN-1140-MW16R-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 19:17 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12648.D Vial: 1
Acq On : 7 Mar 2005 19:28 Operator: RPS
Sample : 7765-005 BRN-1140-MW7-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 19:45 19105 Quant Results File: 0307BTEX.RES

Quant Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

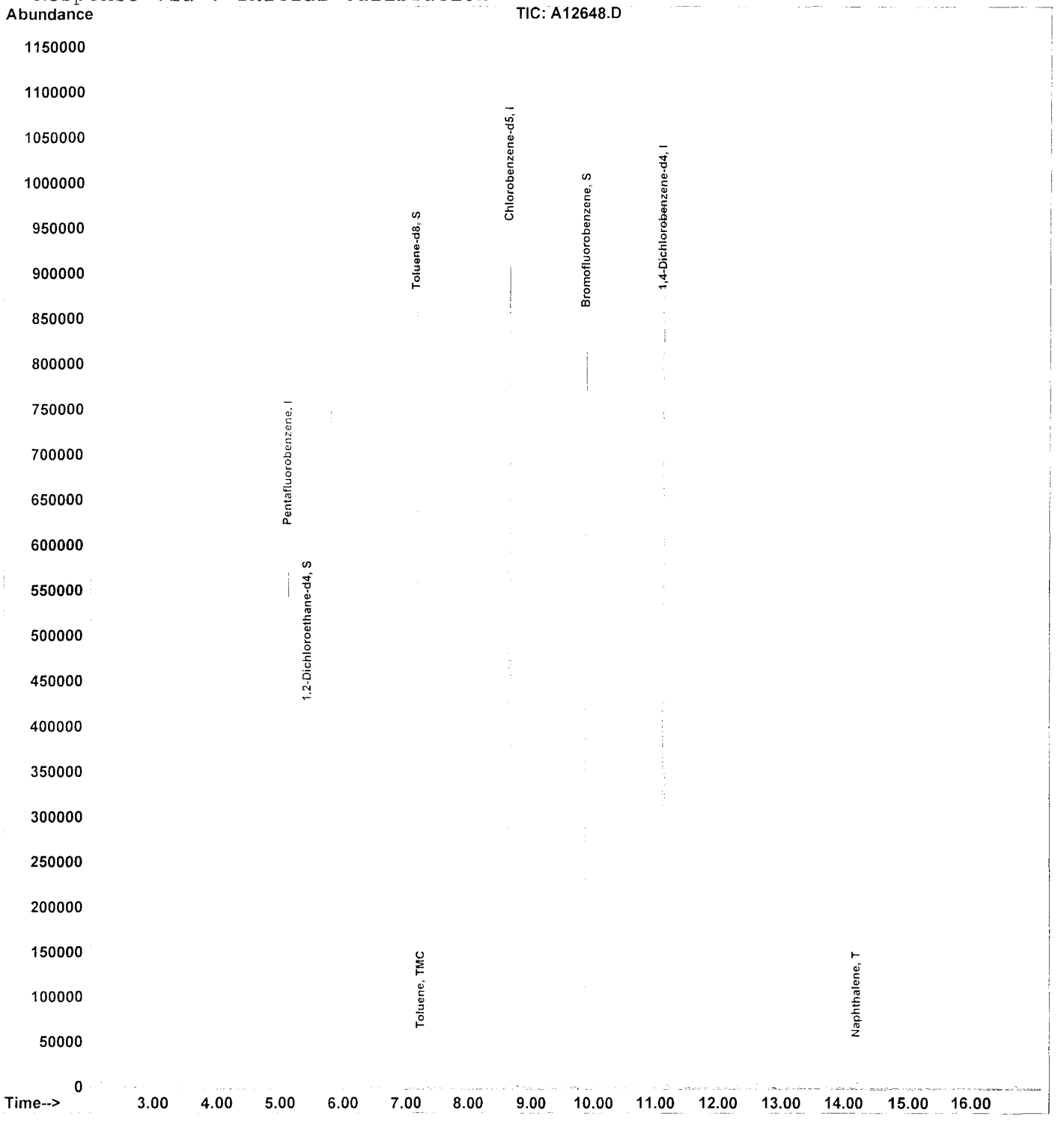
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.14	168	374595	50.00	ug\L	0.02
5) Chlorobenzene-d5	8.66	117	503874	50.00	ug\L	0.02
12) 1,4-Dichlorobenzene-d4	11.14	152	292782	50.00	ug\L	0.02
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.46	65	285190	51.89	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.78%			
6) Toluene-d8	7.18	98	645520	49.97	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.94%			
13) Bromofluorobenzene	9.90	95	284253	45.95	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 91.90%			
Target Compounds						Qvalue
7) Toluene	7.25	91	6886	0.43	ug\L	96
14) Naphthalene	14.22	128	8982	0.65	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12648.D Vial: 1
Acq On : 7 Mar 2005 19:28 Operator: RPS
Sample : 7765-005 BRN-1140-MW7-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 19:45 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12649.D Vial: 2
Acq On : 7 Mar 2005 19:55 Operator: RPS
Sample : 7765-006 BRN-1140-MW28-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 11:39 19105 Quant Results File: 0307BTEX.RES

Quant Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

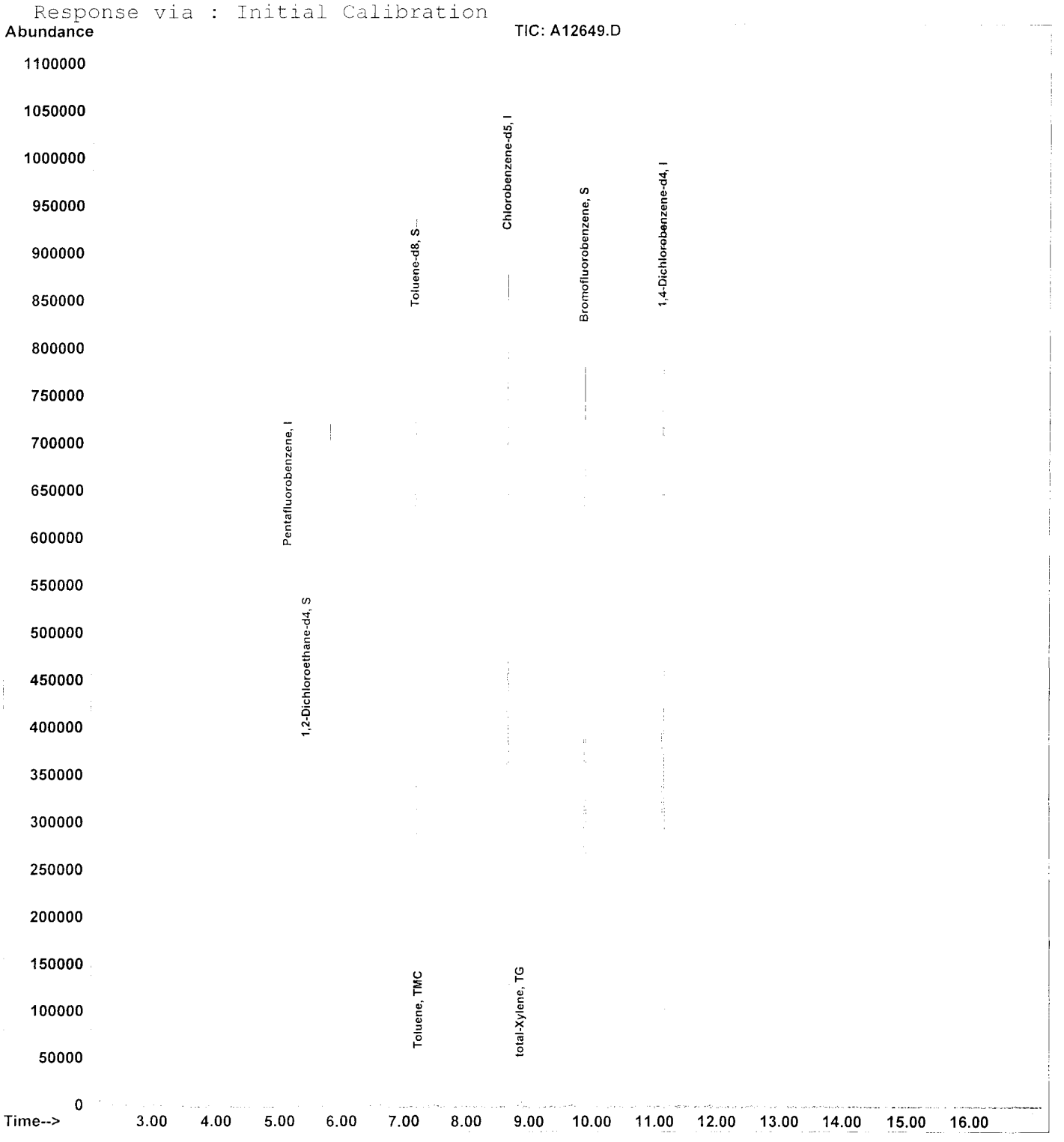
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.15	168	370097	50.00	ug\L	0.03
5) Chlorobenzene-d5	8.66	117	493497	50.00	ug\L	0.02
12) 1,4-Dichlorobenzene-d4	11.14	152	290355	50.00	ug\L	0.03
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.45	65	281119	51.77	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.54%			
6) Toluene-d8	7.18	98	622822	49.23	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.46%			
13) Bromofluorobenzene	9.89	95	275080	44.84	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 89.68%			
Target Compounds						Qvalue
7) Toluene	7.24	91	4758	0.30	ug\L	97
11) total-Xylene	8.87	106	1621m	0.25	ug\L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12649.D Vial: 2
Acq On : 7 Mar 2005 19:55 Operator: RPS
Sample : 7765-006 BRN-1140-MW28-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 11:39 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12650.D Vial: 3
Acq On : 7 Mar 2005 20:23 Operator: RPS
Sample : 7765-007 BRN-1140-MW32-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 11:40 19105 Quant Results File: 0307BTEX.RES

Quant Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

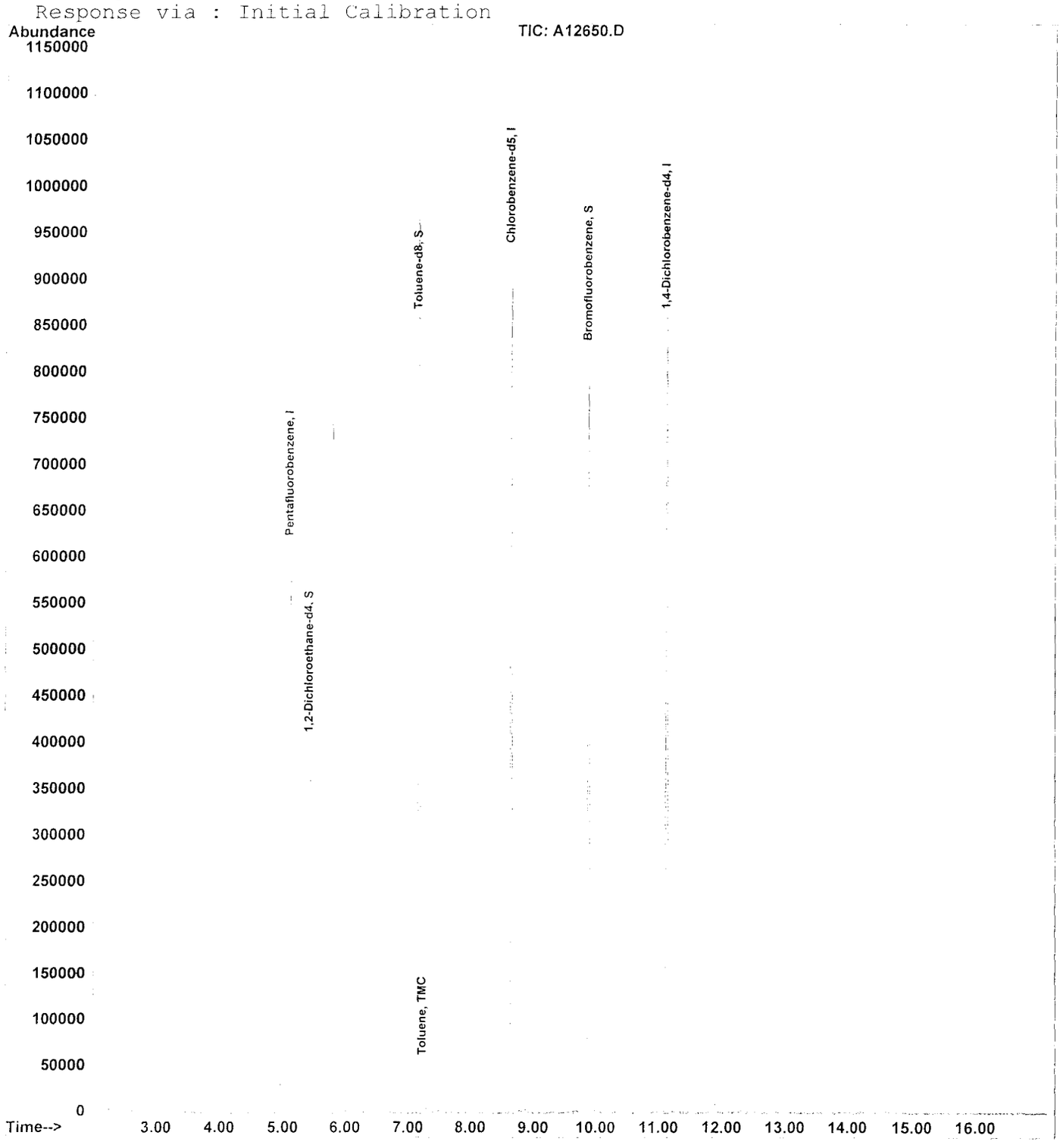
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.14	168	379147	50.00	ug\L	0.02
5) Chlorobenzene-d5	8.66	117	507682	50.00	ug\L	0.02
12) 1,4-Dichlorobenzene-d4	11.14	152	290437	50.00	ug\L	0.02
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.46	65	284464	51.14	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.28%			
6) Toluene-d8	7.18	98	637281	48.96	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.92%			
13) Bromofluorobenzene	9.90	95	272284	44.37	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 88.74%			
Target Compounds						Qvalue
7) Toluene	7.25	91	4809	0.30	ug\L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12650.D Vial: 3
Acq On : 7 Mar 2005 20:23 Operator: RPS
Sample : 7765-007 BRN-1140-MW32-6 Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 11:40 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12651.D Vial: 4
Acq On : 7 Mar 2005 20:51 Operator: RPS
Sample : 7765-008 TRIP BLANK Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 21:08 19105 Quant Results File: 0307BTEX.RES

Quant Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

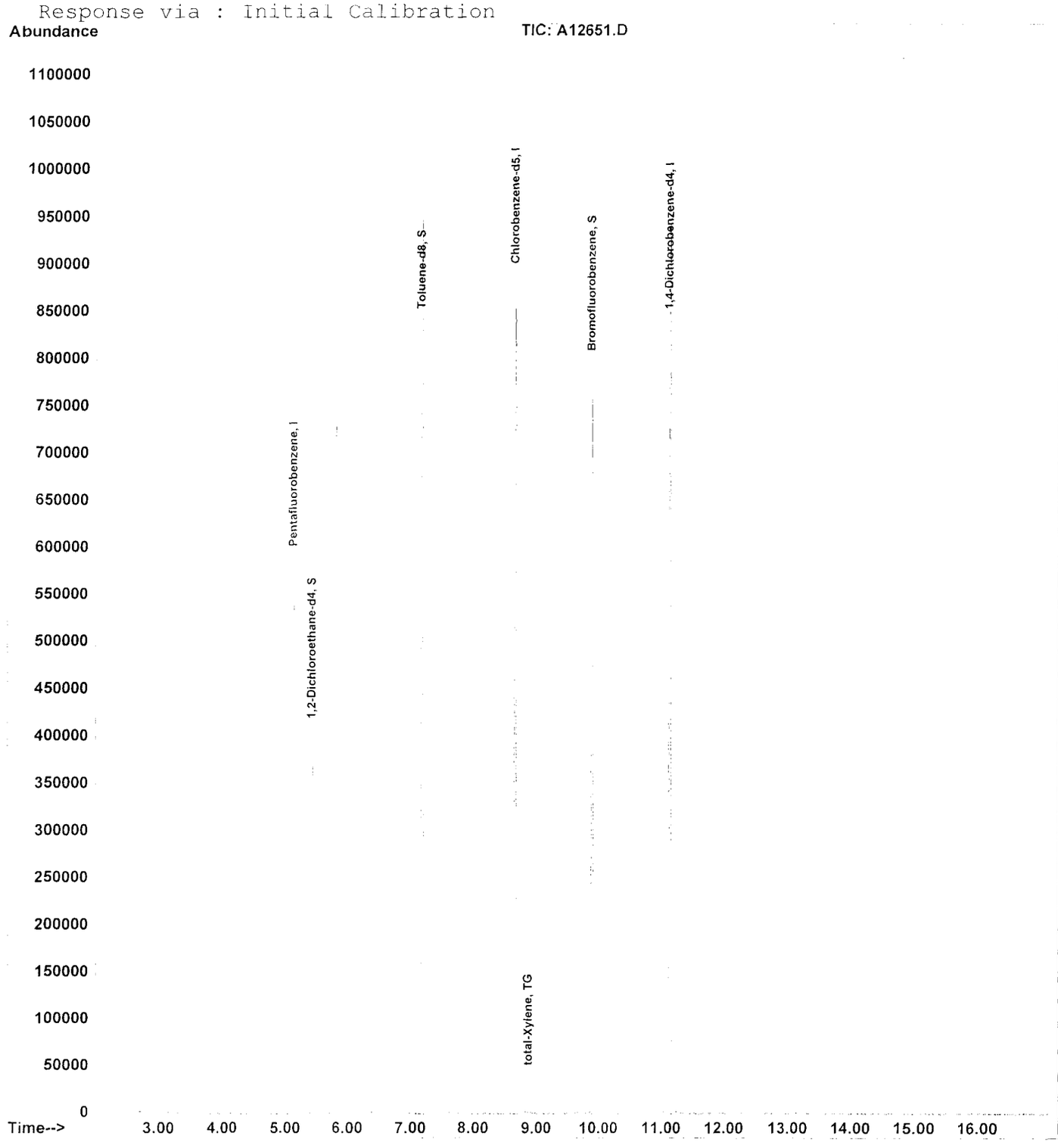
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.15	168	360651	50.00	ug\L	0.03
5) Chlorobenzene-d5	8.66	117	485824	50.00	ug\L	0.03
12) 1,4-Dichlorobenzene-d4	11.15	152	272605	50.00	ug\L	0.03
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.46	65	284279	53.73	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.46%			
6) Toluene-d8	7.19	98	619069	49.70	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.40%			
13) Bromofluorobenzene	9.90	95	268531	46.62	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.24%			
Target Compounds						Qvalue
11) total-Xylene	8.89	106	1272m	0.20	ug\L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12651.D Vial: 4
Acq On : 7 Mar 2005 20:51 Operator: RPS
Sample : 7765-008 TRIP BLANK Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 21:08 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12632.D Vial: 2
Acq On : 7 Mar 2005 11:44 Operator: RPS
Sample : BLK Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 12:01 19105 Quant Results File: 0307BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

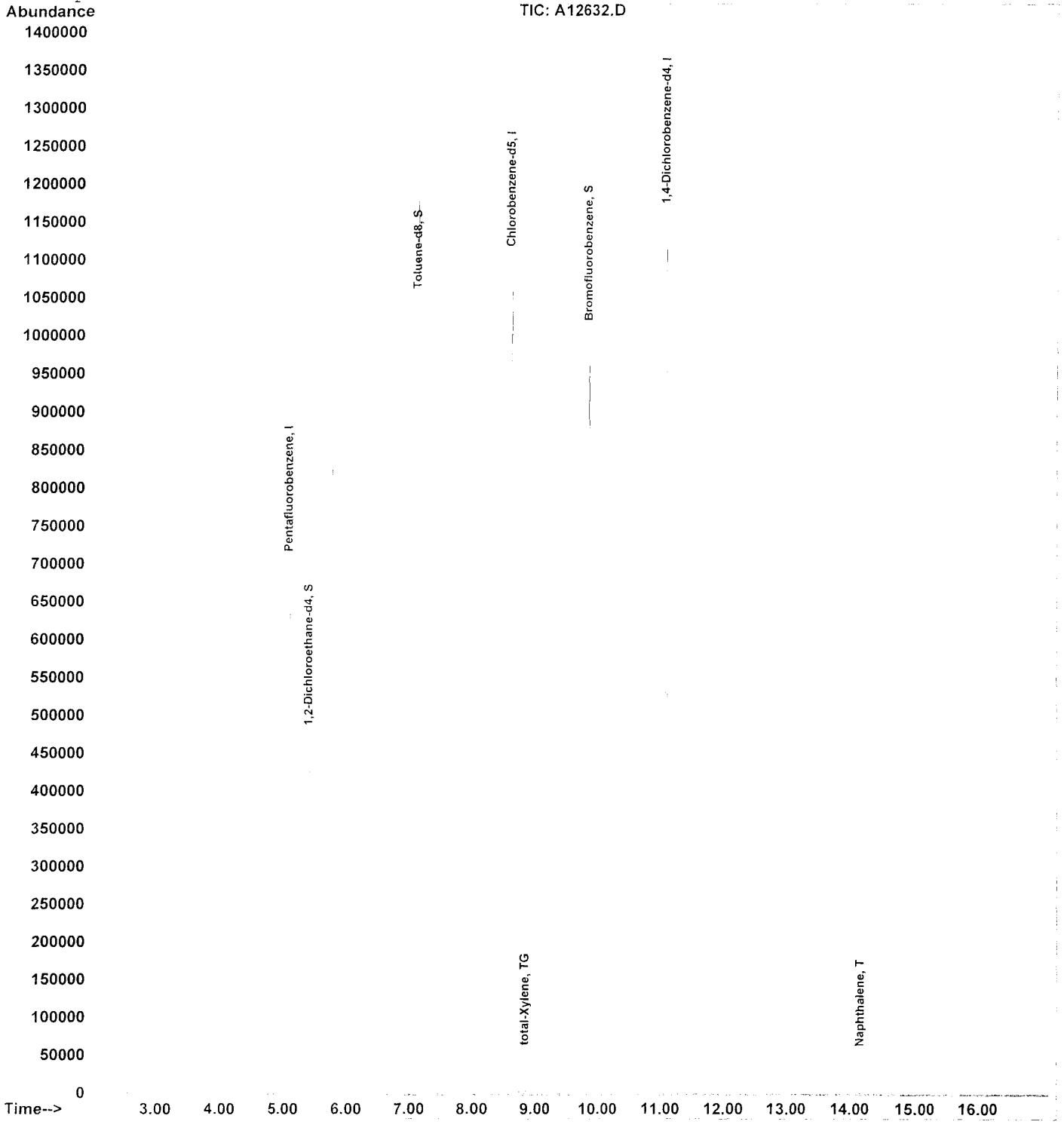
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.13	168	428474	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.64	117	585382	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.12	152	343523	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.43	65	321895	51.21	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.42%			
6) Toluene-d8	7.16	98	755039	50.31	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.62%			
13) Bromofluorobenzene	9.88	95	331193	45.63	ug\L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 91.26%			
Target Compounds						Qvalue
11) total-Xylene	8.85	106	1591m	0.21	ug\L	
14) Naphthalene	14.20	128	4610	0.29	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12632.D Vial: 2
Acq On : 7 Mar 2005 11:44 Operator: RPS
Sample : BLK Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 12:01 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12633.D Vial: 1
Acq On : 7 Mar 2005 12:19 Operator: RPS
Sample : BKS Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 12:36 19105 Quant Results File: 0307BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

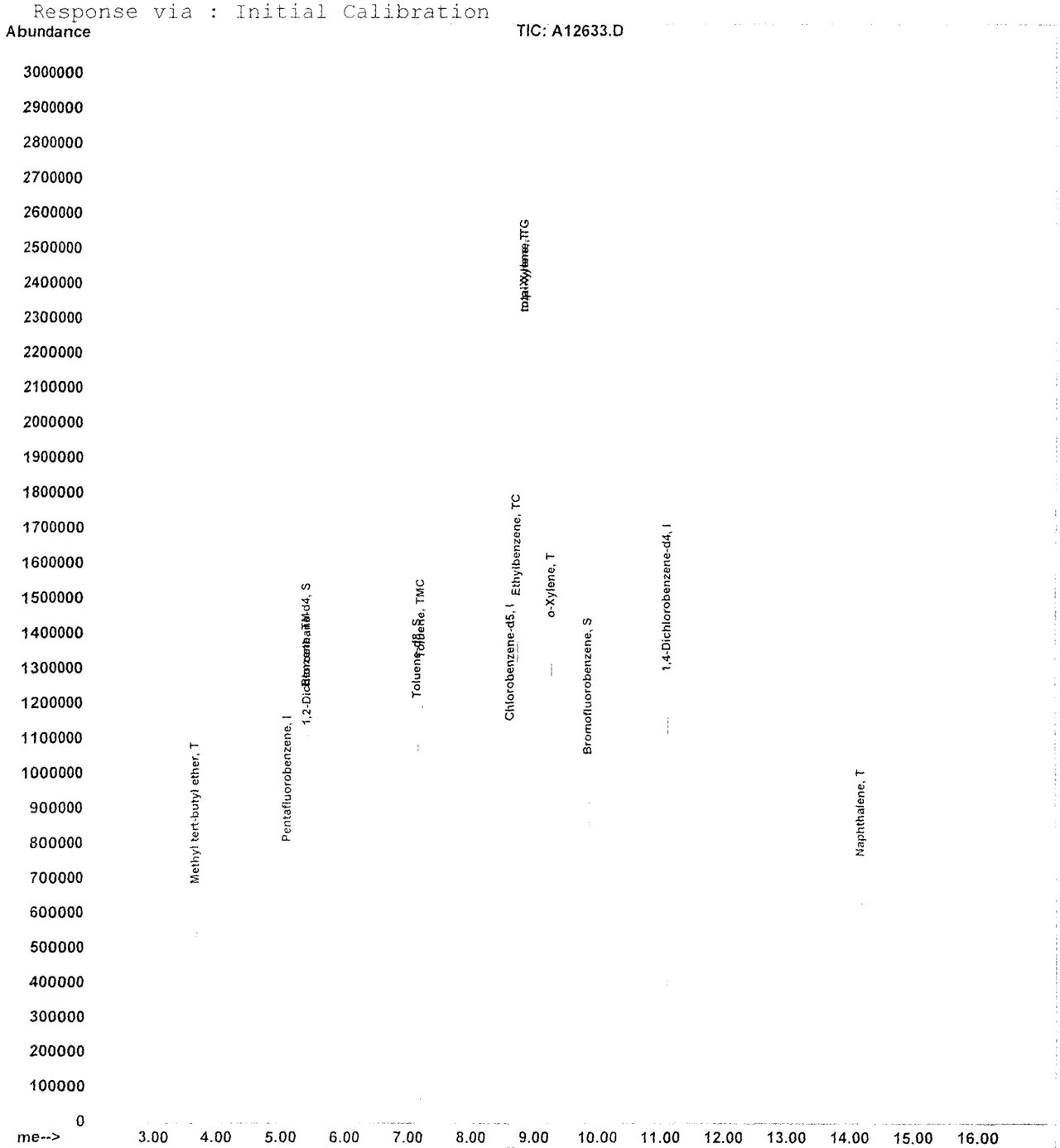
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.13	168	443881	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.65	117	593757	50.00	ug\L	0.01
12) 1,4-Dichlorobenzene-d4	11.13	152	348624	50.00	ug\L	0.01
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.44	65	301279	46.26	ug\L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 92.52%			
6) Toluene-d8	7.17	98	712618	46.81	ug\L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.62%			
13) Bromofluorobenzene	9.88	95	317568	43.12	ug\L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 86.24%			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.69	73	573537	44.41	ug\L	99
4) Benzene	5.42	78	758484	43.36	ug\L	100
7) Toluene	7.24	91	860907	45.47	ug\L	100
8) Ethylbenzene	8.74	91	1026339	46.23	ug\L	98
9) m,p-Xylene	8.86	106	722785	90.78	ug\L	100
10) o-Xylene	9.29	106	356841	46.72	ug\L	99
11) total-Xylene	8.86	106	1078412m	139.49	ug\L	
14) Naphthalene	14.21	128	812915	49.60	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12633.D Vial: 1
Acq On : 7 Mar 2005 12:19 Operator: RPS
Sample : BKS Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 12:36 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12643.D Vial: 10
Acq On : 7 Mar 2005 17:09 Operator: RPS
Sample : 7765-001MS BRN-1140-MW27-6MS Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 17:26 19105 Quant Results File: 0307BTEX.RES

Quant Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.14	168	381252	50.00	ug\L	0.02
5) Chlorobenzene-d5	8.65	117	491548	50.00	ug\L	0.02
12) 1,4-Dichlorobenzene-d4	11.14	152	298371	50.00	ug\L	0.02
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.46	65	266310	47.61	ug\L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.22%			
6) Toluene-d8	7.18	98	618134	49.05	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.10%			
13) Bromofluorobenzene	9.89	95	271115	43.01	ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 86.02%			

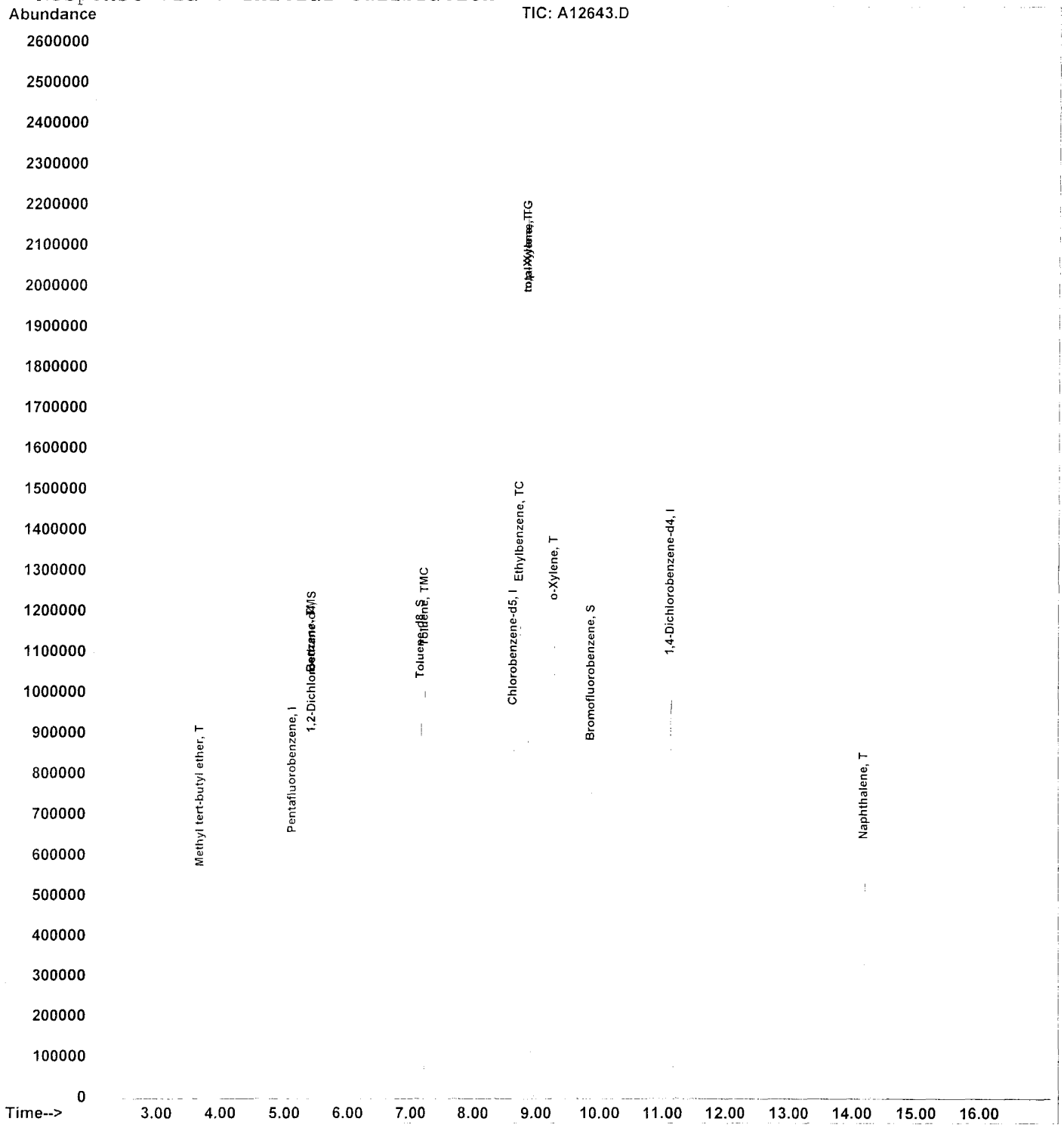
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.70	73	478198	43.11	ug\L	99
4) Benzene	5.44	78	649192	43.21	ug\L	100
7) Toluene	7.25	91	742072	47.35	ug\L	99
8) Ethylbenzene	8.75	91	879072	47.83	ug\L	99
9) m,p-Xylene	8.87	106	620670	94.16	ug\L	98
10) o-Xylene	9.30	106	304697	48.19	ug\L	96
11) total-Xylene	8.87	106	924591m	144.46	ug\L	
14) Naphthalene	14.22	128	713681	50.88	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12643.D Vial: 10
Acq On : 7 Mar 2005 17:09 Operator: RPS
Sample : 7765-001MS BRN-1140-MW27-6MS Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 17:26 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A030705\A12644.D Vial: 11
Acq On : 7 Mar 2005 17:37 Operator: RPS
Sample : 7765-001MSD BRN-1140-MW27-6MSD Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 17:54 19105 Quant Results File: 0307BTEX.RES

Quant Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0307BTEX

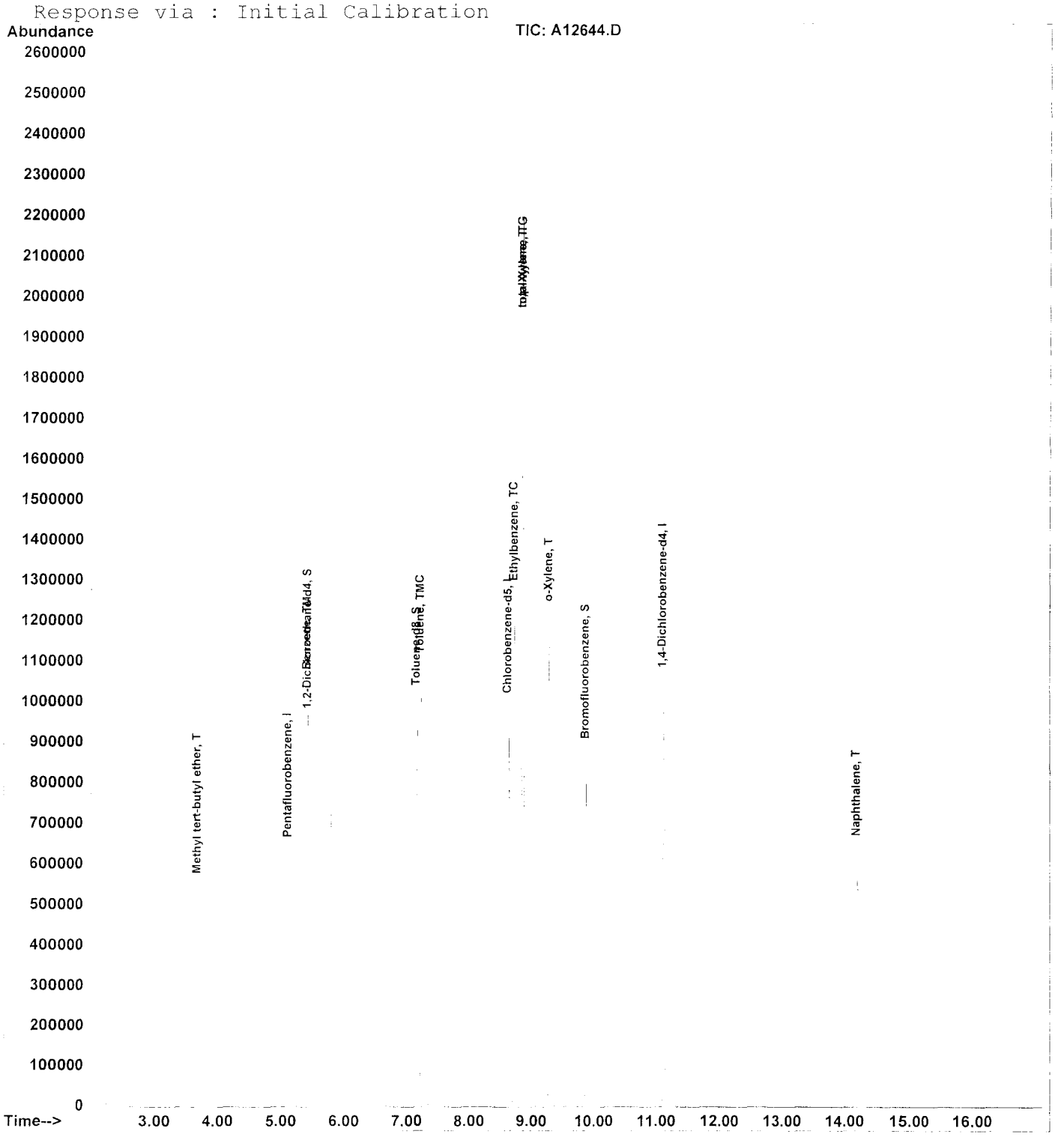
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.14	168	378179	50.00 ug\L	0.02
5) Chlorobenzene-d5	8.65	117	509899	50.00 ug\L	0.02
12) 1,4-Dichlorobenzene-d4	11.14	152	300048	50.00 ug\L	0.02
System Monitoring Compounds					
3) 1,2-Dichloroethane-d4	5.45	65	265310	47.82 ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.64%		
6) Toluene-d8	7.18	98	626218	47.90 ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.80%		
13) Bromofluorobenzene	9.89	95	280792	44.29 ug\L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 88.58%		
Target Compounds					Qvalue
2) Methyl tert-butyl ether	3.70	73	481800	43.79 ug\L	99
4) Benzene	5.43	78	650310	43.63 ug\L	100
7) Toluene	7.24	91	727498	44.75 ug\L	100
8) Ethylbenzene	8.75	91	879780	46.14 ug\L	99
9) m,p-Xylene	8.88	106	615051	89.95 ug\L	97
10) o-Xylene	9.30	106	301064	45.90 ug\L	98
11) total-Xylene	8.88	106	917076m	138.13 ug\L	
14) Naphthalene	14.22	128	731097	51.83 ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A030705\A12644.D Vial: 11
Acq On : 7 Mar 2005 17:37 Operator: RPS
Sample : 7765-001MSD BRN-1140-MW27-6MSD Inst : HP-MSA
Misc : 5mL DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 7 17:54 19105 Quant Results File: 0307BTEX.RES

Method : c:\hpchem\1\data\A030705\0307BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



VOA GC/MS CALIBRATION CHECKLIST
SW-846-8260B

DATE / INSTRUMENT: 01/04/05, HP MSA	METHOD: 8260B
MATRIX: BTEX, M and Naphthalene in Water	

Are all standards within expiration dates for both stock and serial standards?	Y	N	NA
Are Tuning results compliant with method?	Y	N	NA
Are all Initial Calibration RSDs compliant for CCCs and non-CCC compounds?	Y	N	NA
If RSDs are non-compliant, was initial calibration curve constructed using one of the alternative methods from method 8000B? (List analytes below)	Y	N	NA

Is the runlog completely filled out (including review signature/date)? Y N NA

Are all mistakes single lined, initialled, and dated? Y N NA

Analyst: RBS	Reviewer: Thomas A. Gatti
Date: 01/05/05 Time: 11:00	Date: 1/5/05 Time: 16:26

Directory: c:\hpchem\1\data\a010405

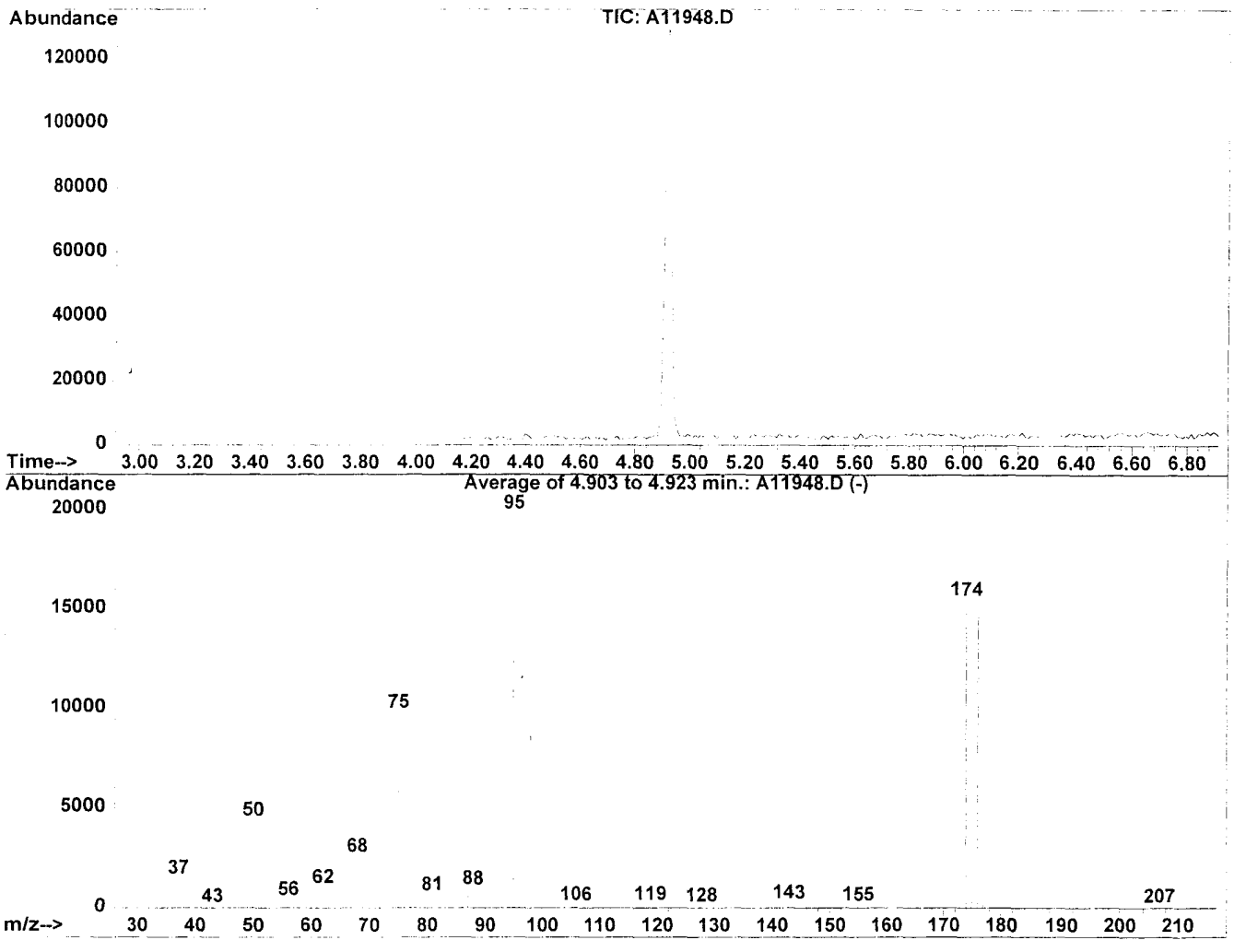
Injection Log

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	a11937.d	1.	VTUNA01		4 Jan 05 10:40
2	1	a11938.d	1.	VSTD001A01	ICAL 1ppb	4 Jan 05 11:03
3	2	a11939.d	1.	VSTD005A01	ICAL 5ppb	4 Jan 05 11:30
4	3	a11940.d	1.	VSTD010A01	ICAL 10ppb	4 Jan 05 11:58
5	4	a11941.d	1.	VSTD020A01	ICAL 20ppb	4 Jan 05 12:25
6	5	a11942.d	1.	VSTD050A01	ICAL 50ppb	4 Jan 05 12:52
7	6	a11943.d	1.	VSTD100A01	ICAL 100ppb	4 Jan 05 13:19
8	7	a11944.d	1.	VSTD200A01	ICAL 200ppb	4 Jan 05 13:47
9	9	a11945.d	1.	VIBLK01	ICAL 1ppb	4 Jan 05 14:43
10	1	a11946.d	1.	VSTD001A01	ICAL 1ppb	4 Jan 05 15:14
11	1	a11947.d	1.	VSTD050A01	ICV 50ppb	4 Jan 05 15:50
12		a11949.d	1.			

VOA Tune 05GC001
BTEX Std - 04GC002
BTEX ICV - V04057
8260 ISTD - 04GC003
8260 SSTD - 04GC004

BFB

Data File : C:\HPCHEM\1\DATA\A010505\A11948.D Vial: 1
Acq On : 5 Jan 2005 9:45 Operator: RPS
Sample : VTUNA02 Inst : HP-MSA
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :



AutoFind: Scans 90, 91, 92; Background Corrected with Scan 85

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	4340	PASS
75	95	30	66	49.3	9748	PASS
95	95	100	100	100.0	19753	PASS
96	95	5	9	7.4	1466	PASS
173	174	0.00	2	0.6	100	PASS
174	95	50	120	78.0	15417	PASS
175	174	4	9	7.3	1119	PASS
176	174	95	101	97.3	14999	PASS
177	176	5	9	7.1	1066	PASS

Response Factor Report HP-MSA

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration

Calibration Files

1	=A11946.D	5	=A11939.D	10	=A11940.D
20	=A11941.D	50	=A11942.D	100	=A11943.D

		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Methyl tert-butyl e	1.410	1.459	1.544	1.558	1.434	1.407	1.455	4.90
3)	S	1,2-Dichloroethane-		0.772	0.820	0.763	0.722	0.678	0.734	8.76
4)	TM	Benzene	2.080	2.019	2.115	2.090	1.898	1.850	1.971	7.24
5)	I	Chlorobenzene-d5	----------ISTD----------							
6)	S	Toluene-d8		1.284	1.348	1.326	1.310	1.250	1.282	4.91
7)	TMC	Toluene	1.760	1.617	1.670	1.694	1.545	1.496	1.594	8.20
8)	TC	Ethylbenzene	2.112	1.878	1.984	1.997	1.799	1.726	1.870	9.54
9)	T	m,p-Xylene	0.719	0.671	0.705	0.696	0.636	0.597	0.671	6.91
10)	T	o-Xylene	0.683	0.637	0.682	0.681	0.623	0.610	0.643	6.09
11)	TG	total-Xylene	0.725	0.659	0.696	0.690	0.631	0.601	0.651	9.17
12)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
13)	S	Bromofluorobenzene		1.025	1.068	1.208	1.001	1.134	1.056	10.11
14)	T	Naphthalene		1.954	2.312	2.680	2.564	2.562	2.351	12.88

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11946.D Vial: 1
Acq On : 4 Jan 2005 15:14 Operator: RPS
Sample : VSTD001A01 Inst : HP-MSA
Misc : ICAL 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 15:41 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

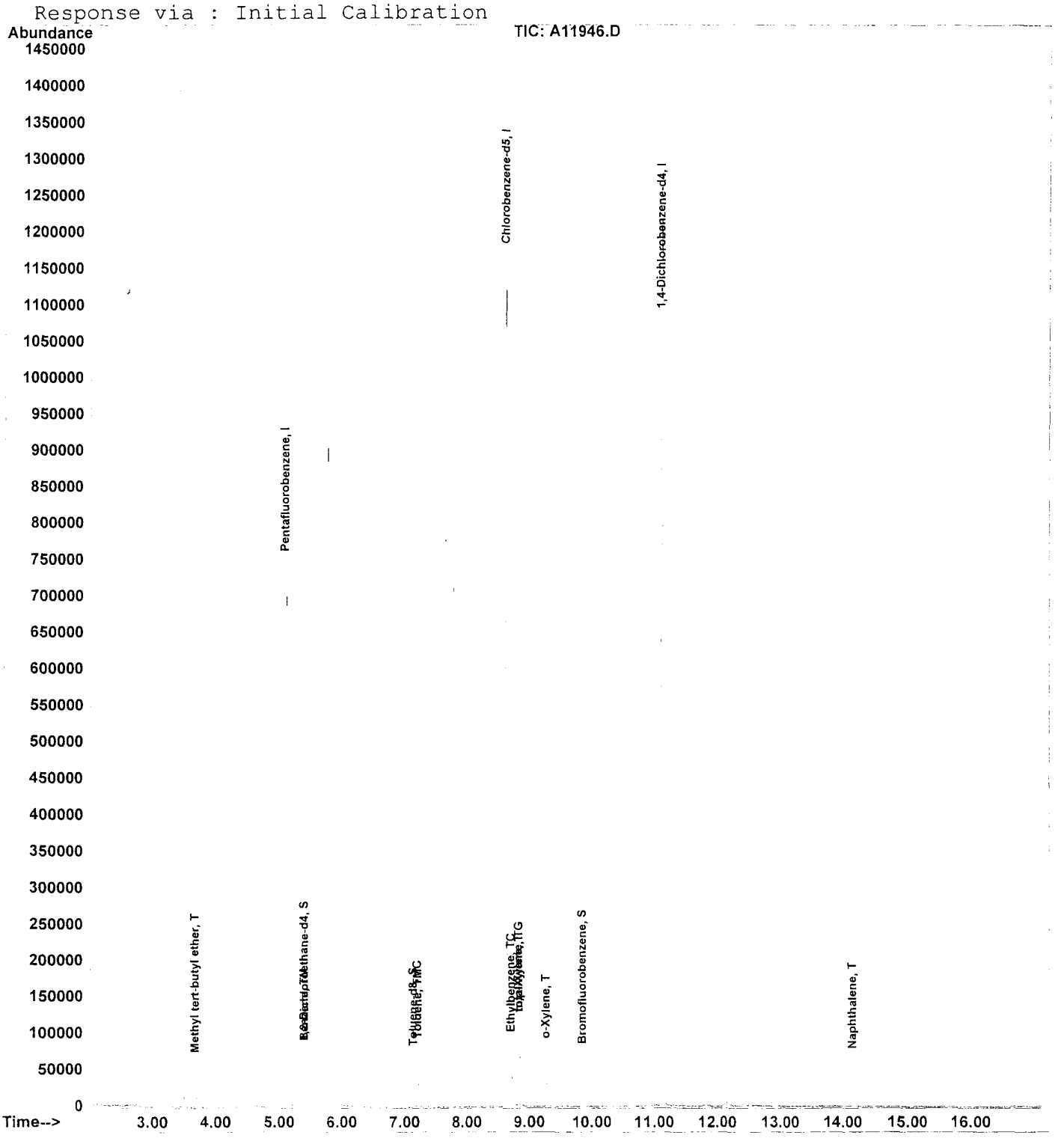
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.12	168	464912	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	624260	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	364861	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	6763	0.99	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 1.98%#			
6) Toluene-d8	7.15	98	15357	0.96	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 1.92%#			
13) Bromofluorobenzene	9.86	95	8749	1.13	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 2.26%#			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	13110	0.97	ug\L	99
4) Benzene	5.41	78	19340	1.06	ug\L	100
7) Toluene	7.22	91	21969	1.10	ug\L	99
8) Ethylbenzene	8.73	91	26364	1.13	ug\L	94
9) m,p-Xylene	8.85	106	17943	2.14	ug\L	91
10) o-Xylene	9.27	106	8524	1.06	ug\L	97
11) total-Xylene	8.85	106	27158m	3.34	ug\L	
14) Naphthalene	14.18	128	24945	1.45	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11946.D Vial: 1
Acq On : 4 Jan 2005 15:14 Operator: RPS
Sample : VSTD001A01 Inst : HP-MSA
Misc : ICAL 1ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 15:41 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11939.D Vial: 2
Acq On : 4 Jan 2005 11:30 Operator: RPS
Sample : VSTD005A01 Inst : HP-MSA
Misc : ICAL 5ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:12 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

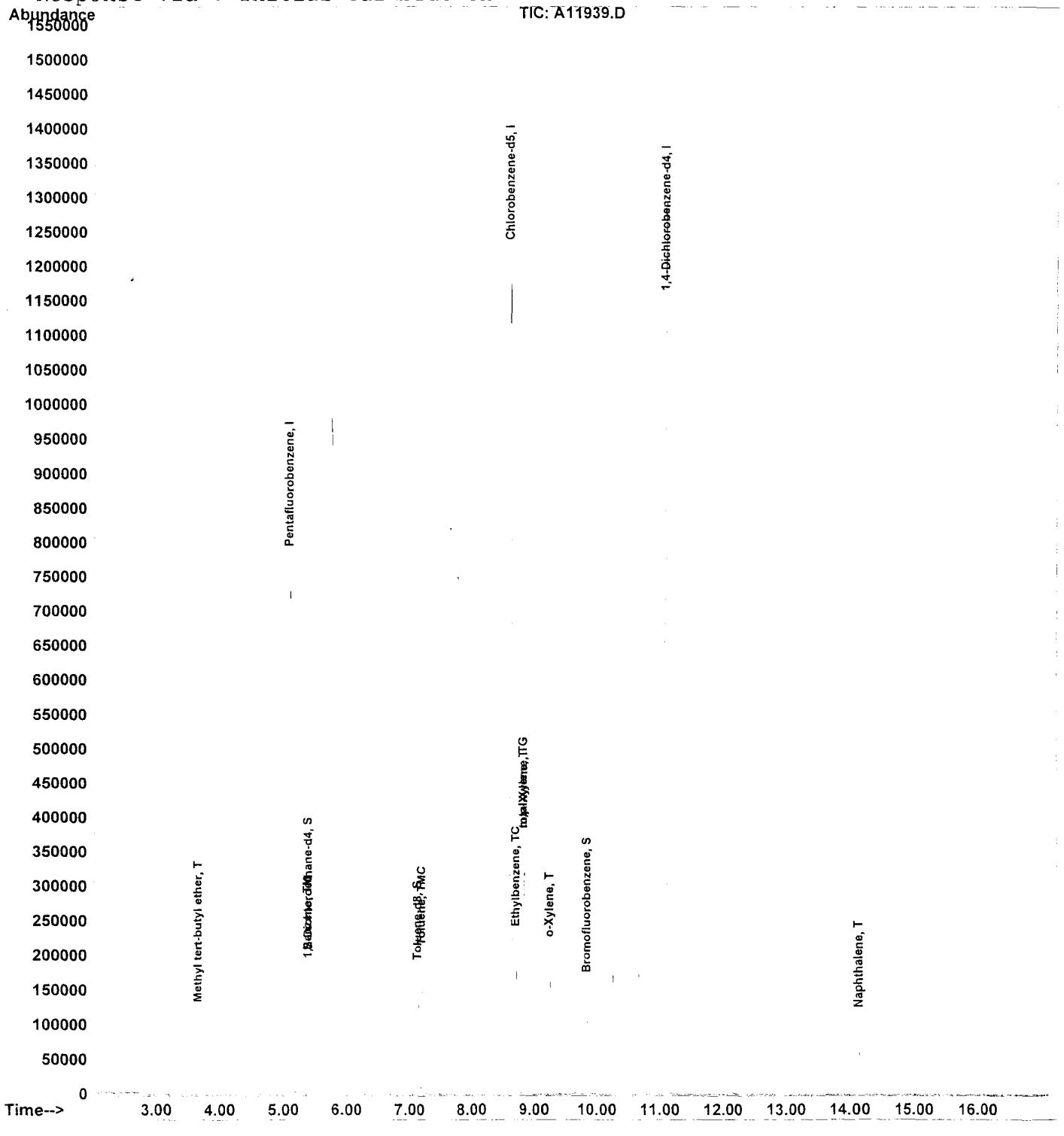
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	489940	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.62	117	661104	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	389343	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	37842	5.35	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 10.70%#			
6) Toluene-d8	7.15	98	84915	4.90	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 9.80%#			
13) Bromofluorobenzene	9.86	95	39904	5.12	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 10.24%#			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	71499	5.95	ug\L	98
4) Benzene	5.40	78	98919	6.09	ug\L	100
7) Toluene	7.21	91	106888	5.84	ug\L	99
8) Ethylbenzene	8.72	91	124127	5.74	ug\L	97
9) m,p-Xylene	8.84	106	88659	11.38	ug\L	99
10) o-Xylene	9.27	106	42103	5.64	ug\L	99
11) total-Xylene	8.84	106	130762m	17.03	ug\L	
14) Naphthalene	14.16	128	76088	3.81	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11939.D Vial: 2
Acq On : 4 Jan 2005 11:30 Operator: RPS
Sample : VSTD005A01 Inst : HP-MSA
Misc : ICAL 5ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:12 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11940.D Vial: 3
Acq On : 4 Jan 2005 11:58 Operator: RPS
Sample : VSTD010A01 Inst : HP-MSA
Misc : ICAL 10ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:13 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

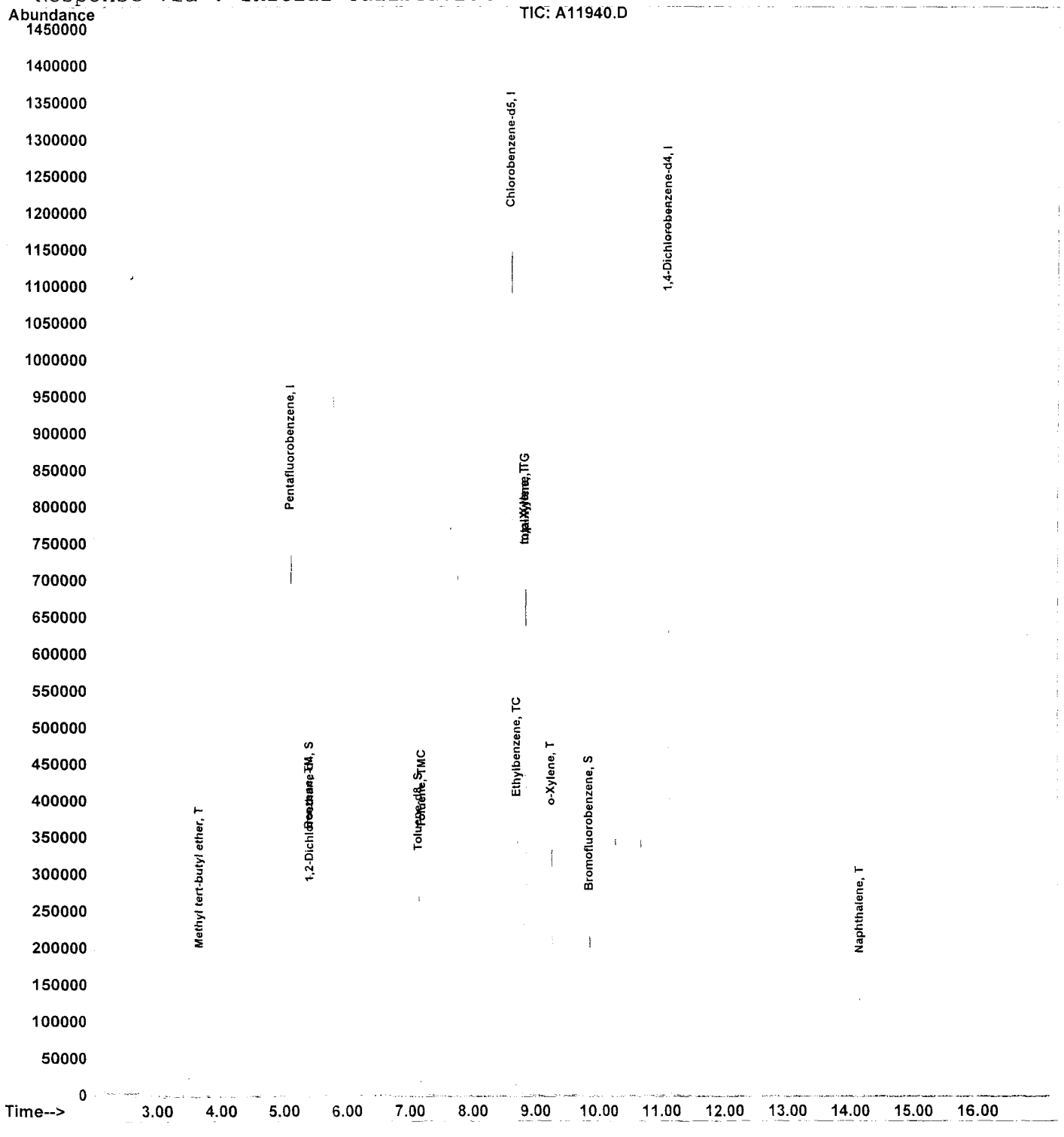
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	478466	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.62	117	654300	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.10	152	361766	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.43	65	78463	10.98	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 21.96%#			
6) Toluene-d8	7.15	98	176357	10.39	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 20.78%#			
13) Bromofluorobenzene	9.85	95	77307	10.55	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 21.10%#			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	147719	11.84	ug\L	99
4) Benzene	5.41	78	202400	11.90	ug\L	100
7) Toluene	7.22	91	218540	11.43	ug\L	99
8) Ethylbenzene	8.72	91	259621	11.56	ug\L	100
9) m,p-Xylene	8.85	106	184445	22.87	ug\L	98
10) o-Xylene	9.27	106	89187	11.58	ug\L	98
11) total-Xylene	8.85	106	273327m	34.42	ug\L	
14) Naphthalene	14.16	128	167267	10.23	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11940.D Vial: 3
Acq On : 4 Jan 2005 11:58 Operator: RPS
Sample : VSTD010A01 Inst : HP-MSA
Misc : ICAL 10ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:13 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11941.D
Acq On : 4 Jan 2005 12:25
Sample : VSTD020A01
Misc : ICAL 20ppb
MS Integration Params: rteint.p
Quant Time: Jan 4 13:13 19105

Vial: 4
Operator: RPS
Inst : HP-MSA
Multiplr: 1.00
Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

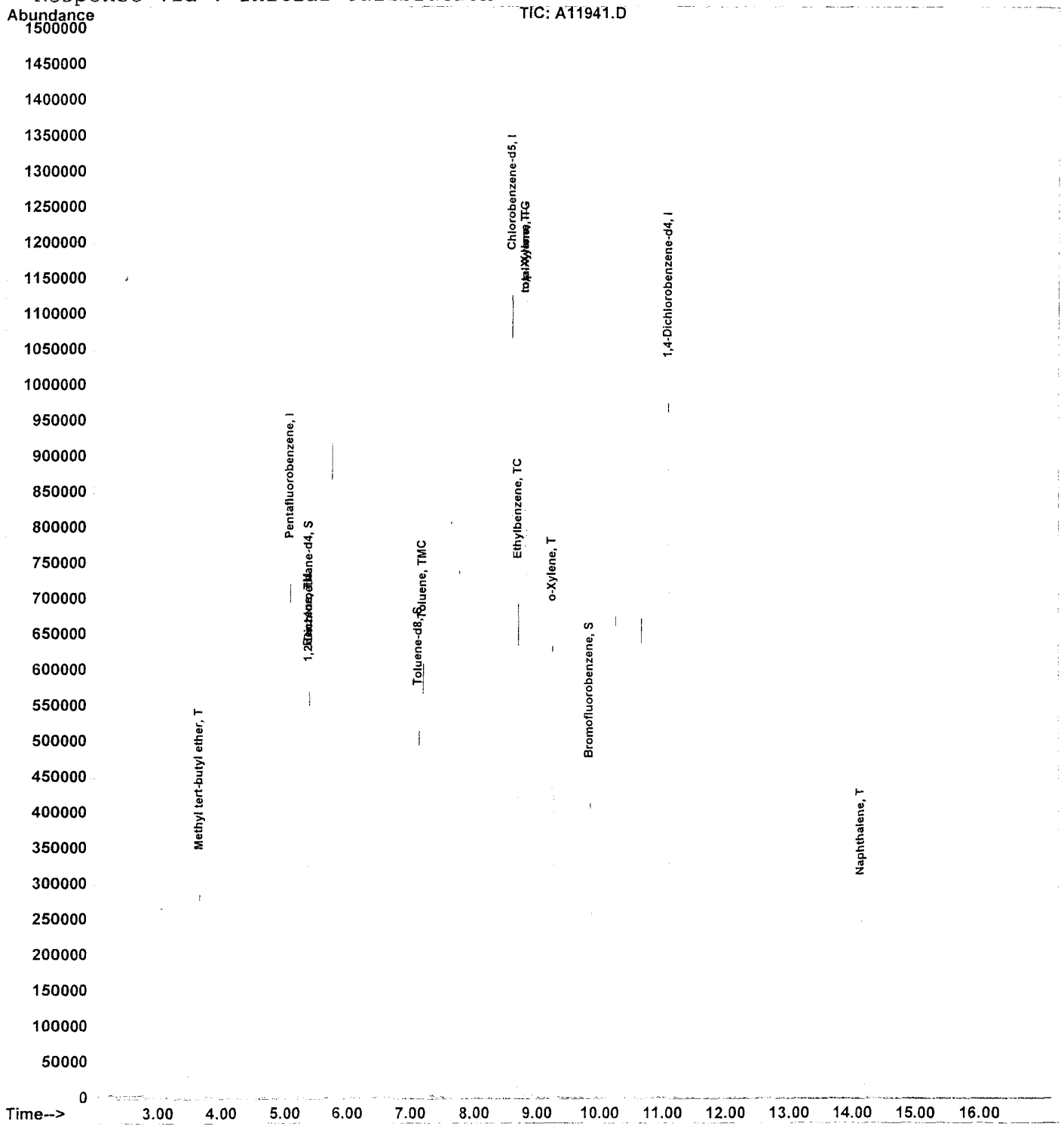
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	464454	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	628694	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	298077	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	141746	19.78	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 39.56%#			
6) Toluene-d8	7.15	98	333362	20.18	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 40.36%#			
13) Bromofluorobenzene	9.86	95	144041	23.42	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 46.84%#			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.67	73	289527	22.85	ug\L	99
4) Benzene	5.41	78	388368	22.46	ug\L	100
7) Toluene	7.22	91	426100	22.39	ug\L	100
8) Ethylbenzene	8.72	91	502226	22.40	ug\L	99
9) m,p-Xylene	8.84	106	350132	43.62	ug\L	98
10) o-Xylene	9.27	106	171318	22.26	ug\L	99
11) total-Xylene	8.84	106	520835m	65.83	ug\L	
14) Naphthalene	14.16	128	319514	23.54	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11941.D Vial: 4
Acq On : 4 Jan 2005 12:25 Operator: RPS
Sample : VSTD020A01 Inst : HP-MSA
Misc : ICAL 20ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:13 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11942.D Vial: 5
Acq On : 4 Jan 2005 12:52 Operator: RPS
Sample : VSTD050A01 Inst : HP-MSA
Misc : ICAL 50ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:11 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

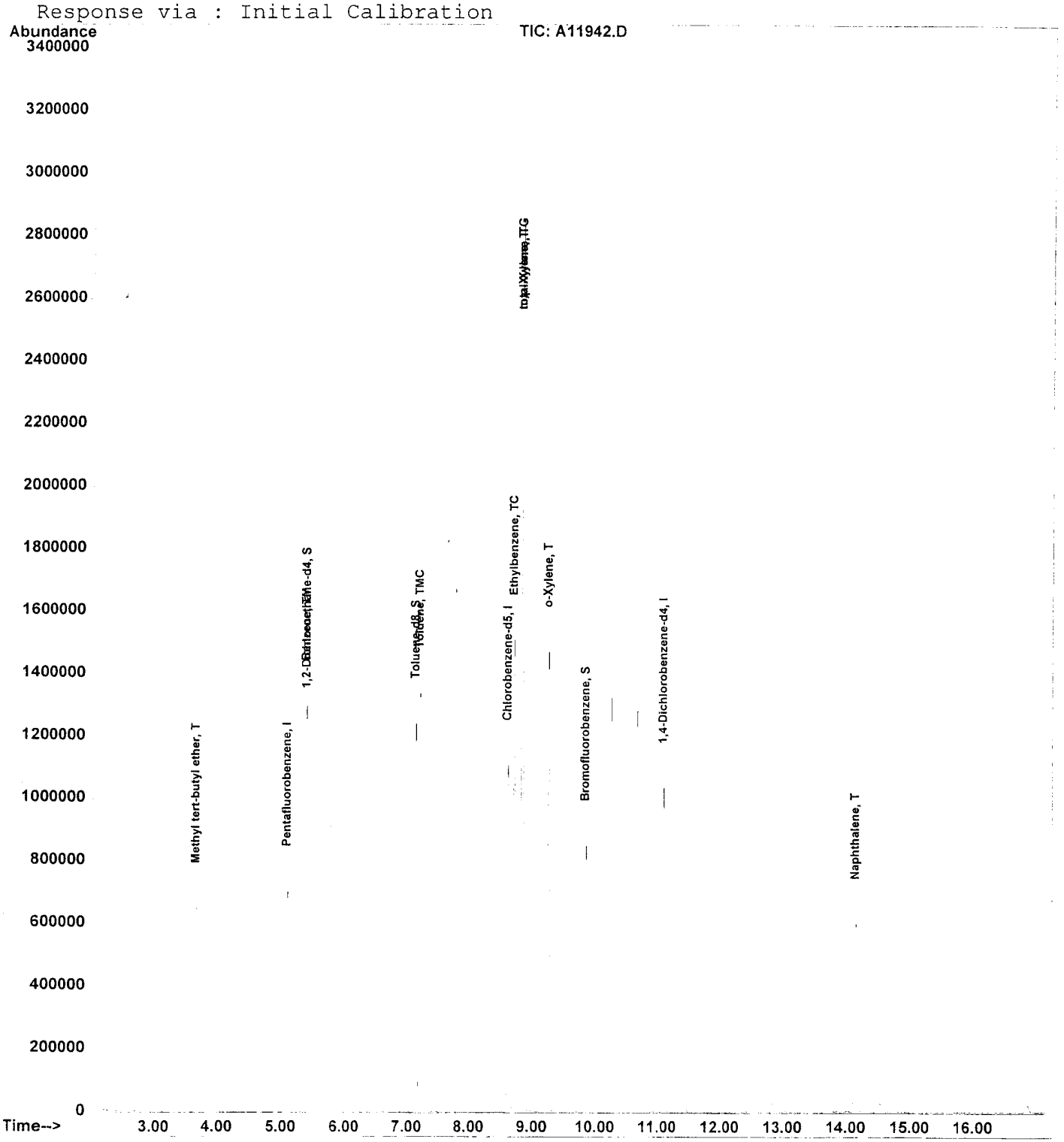
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	469954	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.62	117	629358	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	299187	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	339200	50.00	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.00%			
6) Toluene-d8	7.15	98	824548	50.00	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.00%			
13) Bromofluorobenzene	9.86	95	299573	50.00	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.00%			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	673941	50.00	ug\L	100
4) Benzene	5.40	78	892063	50.00	ug\L	100
7) Toluene	7.22	91	972334	50.00	ug\L	100
8) Ethylbenzene	8.72	91	1132346	50.00	ug\L	100
9) m,p-Xylene	8.85	106	800679	100.00	ug\L	100
10) o-Xylene	9.27	106	392126	50.00	ug\L	100
11) total-Xylene	8.85	106	1191531m	150.00	ug\L	
14) Naphthalene	14.16	128	767119	50.00	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11942.D Vial: 5
Acq On : 4 Jan 2005 12:52 Operator: RPS
Sample : VSTD050A01 Inst : HP-MSA
Misc : ICAL 50ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:11 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11943.D
Acq On : 4 Jan 2005 13:19
Sample : VSTD100A01
Misc : ICAL 100ppb
MS Integration Params: rteint.p
Quant Time: Jan 4 13:37 19105

Vial: 6
Operator: RPS
Inst : HP-MSA
Multiplr: 1.00
Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

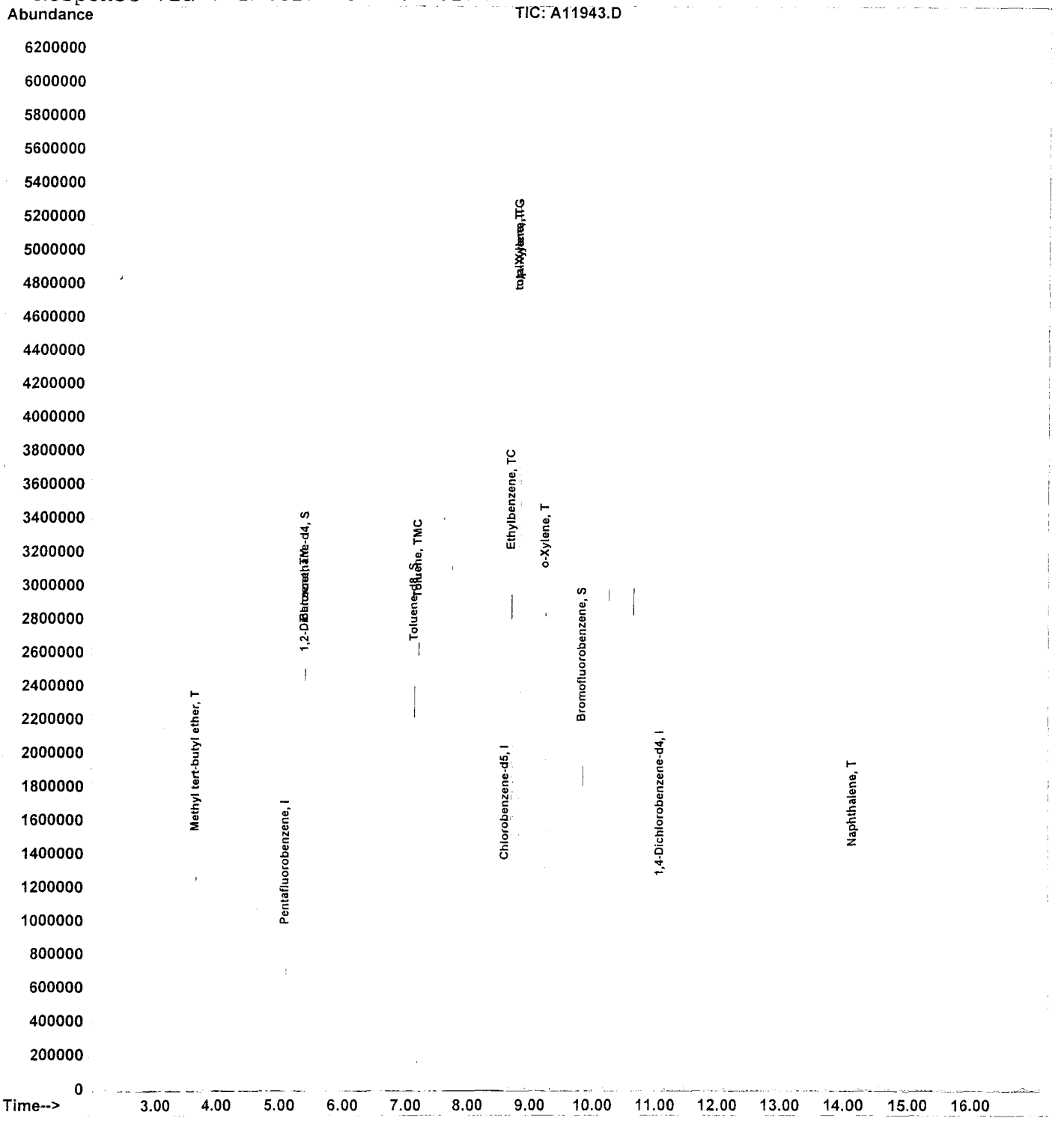
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	471931	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	638042	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.10	152	300021	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	639888	90.27	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 180.54%#			
6) Toluene-d8	7.15	98	1594895	95.88	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 191.76%#			
13) Bromofluorobenzene	9.86	95	680218	104.26	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 208.52%#			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	1328037	100.24	ug\L	98
4) Benzene	5.41	78	1746109	97.47	ug\L	100
7) Toluene	7.22	91	1909435	97.12	ug\L	100
8) Ethylbenzene	8.73	91	2202772	95.39	ug\L	98
9) m,p-Xylene	8.85	106	1523427	186.21	ug\L	99
10) o-Xylene	9.27	106	778301	97.87	ug\L	99
11) total-Xylene	8.85	106	2299035m	283.88	ug\L	
14) Naphthalene	14.16	128	1537327	106.12	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11943.D Vial: 6
Acq On : 4 Jan 2005 13:19 Operator: RPS
Sample : VSTD100A01 Inst : HP-MSA
Misc : ICAL 100ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 13:37 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11944.D Vial: 7
Acq On : 4 Jan 2005 13:47 Operator: RPS
Sample : VSTD200A01 Inst : HP-MSA
Misc : ICAL 200ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 14:04 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

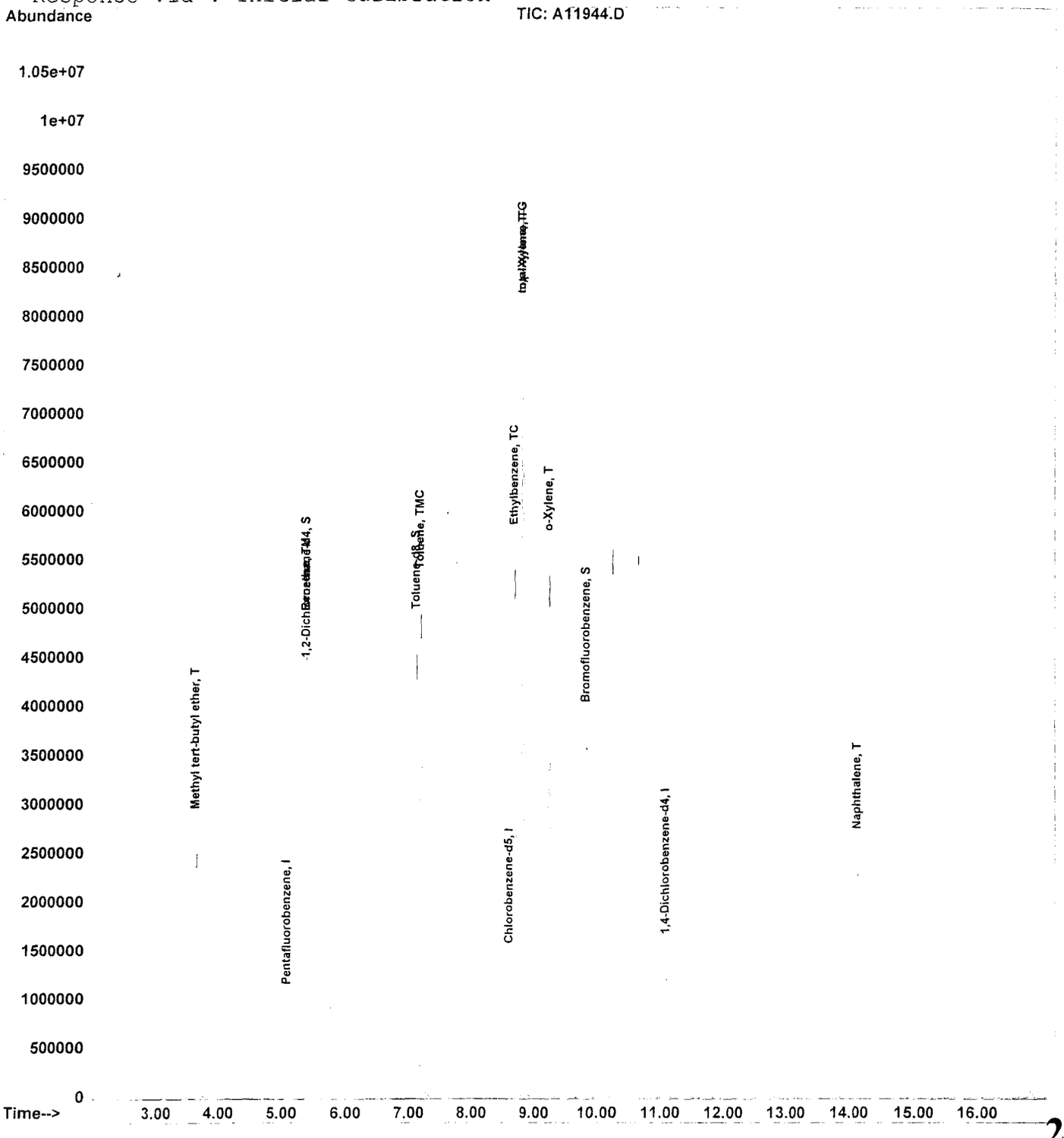
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.11	168	469129	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	643822	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	368970	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	1213085	172.16	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 344.32%#			
6) Toluene-d8	7.15	98	3022065	180.05	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 360.10%#			
13) Bromofluorobenzene	9.86	95	1331016	165.89	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 331.78%#			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	2571872	195.28	ug\L	98
4) Benzene	5.40	78	3267340	183.47	ug\L	100
7) Toluene	7.22	91	3547960	178.84	ug\L	98
8) Ethylbenzene	8.73	91	4098008	175.88	ug\L	97
9) m,p-Xylene	8.85	106	2778380	336.55	ug\L	94
10) o-Xylene	9.27	106	1511481	188.37	ug\L	95
11) total-Xylene	8.85	106	4284884m	524.34	ug\L	
14) Naphthalene	14.17	128	2999057	168.33	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11944.D Vial: 7
Acq On : 4 Jan 2005 13:47 Operator: RPS
Sample : VSTD200A01 Inst : HP-MSA
Misc : ICAL 200ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 14:04 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A010405\A11947.D Vial: 1
Acq On : 4 Jan 2005 15:50 Operator: RPS
Sample : VSTD050A01 Inst : HP-MSA
Misc : ICV 50ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 17:39 19105 Quant Results File: 0104BTEX.RES

Quant Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration
DataAcq Meth : 0104BTEX

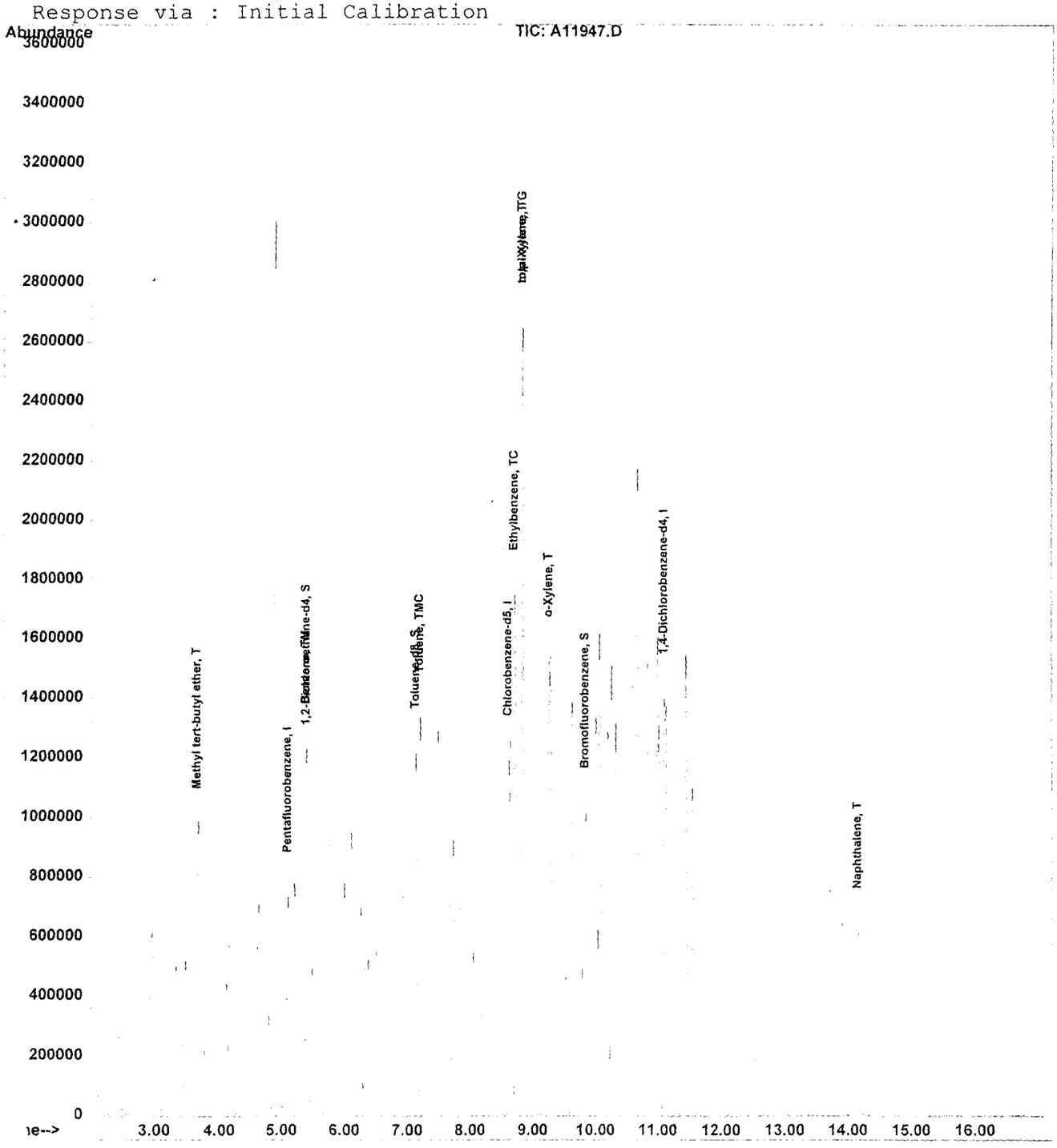
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.12	168	458268	50.00	ug\L	0.00
5) Chlorobenzene-d5	8.63	117	639944	50.00	ug\L	0.00
12) 1,4-Dichlorobenzene-d4	11.11	152	375559	50.00	ug\L	0.00
System Monitoring Compounds						
3) 1,2-Dichloroethane-d4	5.42	65	318484	47.37	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.74%			
6) Toluene-d8	7.15	98	812000	49.49	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.98%			
13) Bromofluorobenzene	9.86	95	358292	45.16	ug\L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 90.32%			
Target Compounds						Qvalue
2) Methyl tert-butyl ether	3.68	73	623109	46.73	ug\L	100
4) Benzene	5.41	78	816543	45.21	ug\L	100
7) Toluene	7.22	91	922849	45.23	ug\L	100
8) Ethylbenzene	8.73	91	1085096	45.35	ug\L	99
9) m,p-Xylene	8.86	106	756984	88.21	ug\L	99
10) o-Xylene	9.28	106	386582	46.96	ug\L	99
11) total-Xylene	8.86	106	1142298m	137.09	ug\L	
14) Naphthalene	14.17	128	771638	43.70	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A010405\A11947.D Vial: 1
Acq On : 4 Jan 2005 15:50 Operator: RPS
Sample : VSTD050A01 Inst : HP-MSA
Misc : ICV 50ppb Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 4 17:39 19105 Quant Results File: 0104BTEX.RES

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Initial Calibration



1947.D 0104BTEX.M Tue Jan 04 17:39:16 2005 HP-MSD

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\A010405\A11947.D Vial: 1
Acq On : 4 Jan 2005 15:50 Operator: RPS
Sample : VSTD050A01 Inst : HP-MSA
Misc : ICV 50ppb Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\A010405\0104BTEX.M (RTE Integrator)
Title : 8260BTEX CALIBRATION FOR 5ML WATER ICAL 01-04-05
Last Update : Tue Jan 04 13:10:54 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 250%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	98	0.00
2	T	Methyl tert-butyl ether	1.455	1.360	6.5	92	0.00
3	S	1,2-Dichloroethane-d4	0.734	0.695	5.3	94	0.00
4	TM	Benzene	1.971	1.782	9.6	92	0.00
5	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
6	S	Toluene-d8	1.282	1.269	1.0	98	0.00
7	TMC	Toluene	1.594	1.442	9.5	95	0.00
8	TC	Ethylbenzene	1.870	1.696	9.3	96	0.00
9	T	m,p-Xylene	0.671	0.591	11.9	95	0.00
10	T	o-Xylene	0.643	0.604	6.1	99	0.00
11	TG	total-Xylene	0.651	0.595	8.6	96	0.00
2	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	126	0.00
3	S	Bromofluorobenzene	1.056	0.954	9.7	120	0.00
4	T	Naphthalene	2.351	2.055	12.6	101	0.00

Out of Range SPCC's out = 0 CCC's out = 0
7.D 0104BTEX.M Tue Jan 04 17:39:19 2005

SVO GC DATA CHECKLIST
FL-PRO

PROJECT #: 7765	METHOD: FL-PRO
MATRIX: water	

INITIAL ANALYST ASSESSMENT			
Are all standards within expiration dates for both stock and serial standards?	Y	N	NA
Are continuing calibrations compliant with method requirements?	Y	N	NA
Is blank result less than 1/2 RDL for analytes of interest?	Y	N	NA
Are all spike recoveries acceptable for the LCS (/LCSD)?	Y	N	NA
Are all surrogate standard recoveries acceptable (blank, LCS, samples)?	Y	N	NA
If blank, LCS or surrogate results are unacceptable, was re-extraction performed to confirm?	Y	N	NA
Are all requested analytes below the upper calibration limit?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
Were analyses performed such that carryover was not a problem?	Y	N	NA
Are multicomponent patterns resolvable?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	NA
Are all mistakes single lined, initialled, and dated?	Y	N	NA
Are all applicable runlog and extraction sheets signed, dated, and included?	Y	N	NA
Are all analytes to be reported indicated as such on the raw data?	Y	N	NA
Was analysis completed as instructed on the Log-in Record?	Y	N	NA
Has all data been entered into LIMS?	Y	N	NA

Analyst: MC	
Date: 3/14/05	Time: 16:25

PEER REVIEW			
Are continuing calibrations compliant with method requirements?	Y	N	NA
Are all blank and QC results acceptable?	Y	N	NA
Are all surrogate standard recoveries acceptable (blank, LCS, samples)?	Y	N	NA
Are all analyte calculations correct and reported in the proper units?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	NA
Is the runlog completely filled out (including review signature/date)?	Y	N	NA
Was analysis completed as instructed on the Log-in Record?	Y	N	NA
Have all LIMS entries been checked for accuracy?	Y	N	NA

Reviewer: GTP	
Date: 3/14/05	Time: 16:40

ACCURA ANALYTICAL LABORATORIES

EXTRACTION LOG

ANALYSIS: DRO / PAH / FL-PRO

DATE/TIME: 3/8/05 1300

MATRIX: WATER

BATCH I.D. # 25340

ANALYST: ENP

EXT. METHOD: 3510 / 3520

INSTRUMENT: GC/MS/FID

AAL I.D.	Vi (ml)	pH	SURR (ml)	SPIKE (ml)	Vf (ml)	COMMENTS
25340 BLK	1000	<2	1.0	~~0.25~~	2.0	
BLS				0.5		
7765-001 MS	500		0.5	0.25	1.0	
MSD						
7765-001	1000		1.0		2.0	
-002						
-003						
-004						
-005						
-006						
-007						
7759-005			1.0			
-006						

ENP 3/10/05

START TIME: 1500 **STOP TIME**: 900 **SOLVENT ID #**: EX05039

SURROGATE I.D. : FL05E032 **CONC.** : 300 ppm **INITAL** : ENP

SURROGATE I.D. : DOSE024 **CONC.** : 50 ppm **INITAL** : ENP

SPIKE I.D. : EX05024 **CONC.** : 500 ppm **INITIAL** : ENP

SPIKE I.D. : — **CONC.** : — **INITIAL** : —

SPIKE WITNESS: DR **RapidVap TEMP.**: 35°C

EXTRACT STORAGE: REFRIG.# 5, BOX # : D343 **REVIEWED BY**: RLC

RECEIVED FOR ANALYSIS BY (DATE/TIME): RLC 3/10/05

Logbook ID#:EXT-190

Accura Analytical Laboratory, Inc.
6017 Financial Drive, Norcross, GA, 30071

SEMI-VOLATILE GC RUNLOG FOR INSTRUMENT HP-GCO

Sequence Start Date: 3/12/05
Analyst Initials: ML
ICAL Date/Method: 2/28/05, 2/23/05
ACQ Method: MAEPH, FLPRO
Method Reference: FL-PRO MA-EPH TN_EPH DRO

Column A: RTX 5 MS
Column B: NA

	File Name	Lab Sample ID#	Client Sample ID#	ALS#	Matrix	DF	Inj. Time	Comments
O	10620	7678-033 Ali	Dup 02	50	S	5	15:01	
O	621	-006 Ali	SB 12-2	51			15:29	
O	622	700 ppm Ali CCV	-	52	—	—	15:58	
O	623	700 ppm Ali CCV	-	53	—	—	16:26	
O	624	7678-021 ARO	SB 14-2	53	S	2	16:55	
O	625	-029 ARO	SB 13-1	54		5	17:23	
O	626	-033 ARO	Dup 02	55		5	17:52	
O	627	7760-001 ARO	J05 1292-09	56		5	18:21	
O	628	7678-029 MS ARO	SB13-1	57		5	18:49	
O	629	7678-029 MSD ARO	SB13-1	58		5	19:18	
O	630	850 ppm ARO CCV	-	59	—	—	19:46	
O	631	850 ppm ARO CCV	-	59	—	—	20:15	
O	632	1BLK	-	61	—	—	20:43	
O	633	4250 ppm FLPRO CCV	05SV014	62	—	—	21:22	
O	634	4250 ppm FLPRO CCV	05SV014	62	—	—	22:00	
O	635	25340 BLK	—	63	W	1	22:39	
O	636	25340 BKS	—	64			23:18	
O	637	7765-001 MS	BRN-1120-MW27-6	65			23:56	
O	638	-001 MSD	"	66			00:35	
O	639	7765-001	"	67			1:14	
O	640	-002	MW28-6	68			1:52	
O	641	-003	MW29-6	69			2:31	
O	642	-004	MW16R-6	70			3:09	
O	643	-005	MW7-6	71			3:48	
O	644	-006	MW38-6	72			4:27	
O	645	4250 ppm FLPRO CCV		73	—	—	5:06	
O	646	4250 ppm FLPRO CCV		73	—	—	5:44	
O	647	7765-007	BRN-1120-MW32-6	74	W	1	6:23	
O	648	7759-005	EB-02-46	75			7:02	

Analyst/Date: ML 3/14/05
Reviewer/Date:
Analytical Sequence No: 25340 – 25821

249

Accura Analytical Laboratory, Inc.
6017 Financial Drive, Norcross, GA, 30071

SEMI-VOLATILE GC RUNLOG FOR INSTRUMENT HP-GCO

Sequence Start Date: 3/12/05
Analyst Initials: ML
ICAL Date/Method: 2/28/05
ACQ Method: FLPRO
Method Reference: (FL-PRO) MA-EPH TN_EPH DRO

Column A: RTX5 MS
Column B: NA

File Name	Lab Sample ID#	Client Sample ID#	ALS#	Matrix	DF	Inj. Time	Comments
O 10649	7759-006	FB-2-46	76	W	1	7:40	
O 650	2125 ppm FLPRO CCV	–	77	–	–	8:19	
O 651	2125 ppm FLPRO CCV	–	77	–	–	8:57	
O							
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Analyst/Date: ML 3/14/05
Reviewer/Date:
Analytical Sequence No:

250

Injection Log

Directory: E:\1\DATA\031205

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
56	47	O10617.d	1.	7678-029 ALI	DF=10	13 Mar 2005 13:35
57	48	O10618.d	1.	7678-032 ALI	DF=6	13 Mar 2005 14:04
58	49	O10619.d	1.	7678-033 ALI	DF=2	13 Mar 2005 14:32
59	50	O10620.d	1.	7678-033 ALI	DF=5	13 Mar 2005 15:01
60	51	O10621.d	1.	7678-006 ALI	DF=4	13 Mar 2005 15:29
61	52	O10622.d	1.	700 PPM ALI CCV		13 Mar 2005 15:58
62	52	O10623.d	1.	700 PPM ALI CCV		13 Mar 2005 16:26
63	53	O10624.d	1.	7678-021 ARO	DF=2	13 Mar 2005 16:55
64	54	O10625.d	1.	7678-029 ARO	DF=5	13 Mar 2005 17:23
65	55	O10626.d	1.	7678-033 ARO	DF=5	13 Mar 2005 17:52
66	56	O10627.d	1.	7760-001 ARO	DF=5	13 Mar 2005 18:21
67	57	O10628.d	1.	7629-029MS ARO	DF=5	13 Mar 2005 18:49
68	58	O10629.d	1.	7629-029MSD ARO	DF=5	13 Mar 2005 19:18
69	59	O10630.d	1.	850 PPM ARO CCV		13 Mar 2005 19:46
70	59	O10631.d	1.	850 PPM ARO CCV		13 Mar 2005 20:15
71	61	O10632.d	1.	IBLK		13 Mar 2005 20:43
72	62	O10633.d	1.	4250 PPM FLPRO CCV		13 Mar 2005 21:22
73	62	O10634.d	1.	4250 PPM FLPRO CCV		13 Mar 2005 22:00
74	63	O10635.d	1.	25340BLK		13 Mar 2005 22:39
75	64	O10636.d	1.	25340BKS		13 Mar 2005 23:18
76	65	O10637.d	1.	7765-001MS		13 Mar 2005 23:56
77	66	O10638.d	1.	7765-001MSD		14 Mar 2005 00:35
78	67	O10639.d	1.	7765-001		14 Mar 2005 01:14
79	68	O10640.d	1.	7765-002		14 Mar 2005 01:52
80	69	O10641.d	1.	7765-003		14 Mar 2005 02:31
81	70	O10642.d	1.	7765-004		14 Mar 2005 03:09
82	71	O10643.d	1.	7765-005		14 Mar 2005 03:48
83	72	O10644.d	1.	7765-006		14 Mar 2005 04:27
84	73	O10645.d	1.	4250 PPM FLPRO CCV		14 Mar 2005 05:06
85	73	O10646.d	1.	4250 PPM FLPRO CCV		14 Mar 2005 05:44
86	74	O10647.d	1.	7765-007		14 Mar 2005 06:23
87	75	O10648.d	1.	7759-005		14 Mar 2005 07:02
88	76	O10649.d	1.	7759-006		14 Mar 2005 07:40
89	77	O10650.d	1.	2125 PPM FLPRO CCV		14 Mar 2005 08:19
90	77	O10651.d	1.	2125 PPM FLPRO CCV		14 Mar 2005 08:57

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010639.D Vial: 67
Acq On : 03/14/05 01:14 Operator: ML
Sample : 7765-001 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 08:16:30 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

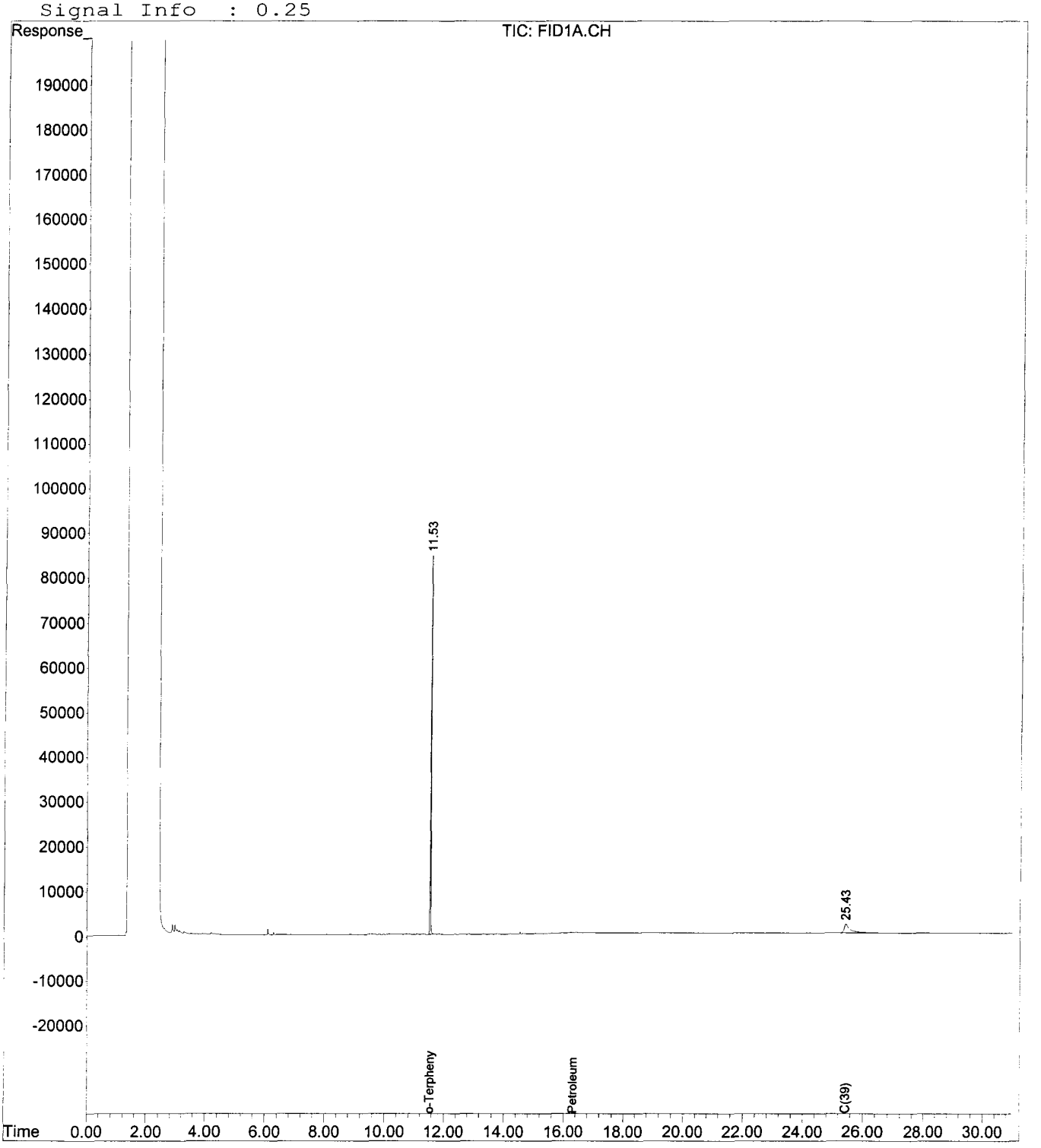
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.53	1154064	26.156 ug/mlm
Spiked Amount 25.000		Recovery =	104.62%
3) SC C(39)	25.43	305006	74.878 ug/mlm
Spiked Amount 150.000		Recovery =	49.92%
Target Compounds			
1) HM Petroleum Range Organics	16.30	1720799	59.305 ug/ml

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010639.D Vial: 67
Acq On : 03/14/05 01:14 Operator: ML
Sample : 7765-001 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 8:38 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010640.D Vial: 68
Acq On : 03/14/05 01:52 Operator: ML
Sample : 7765-002 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 08:17:07 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

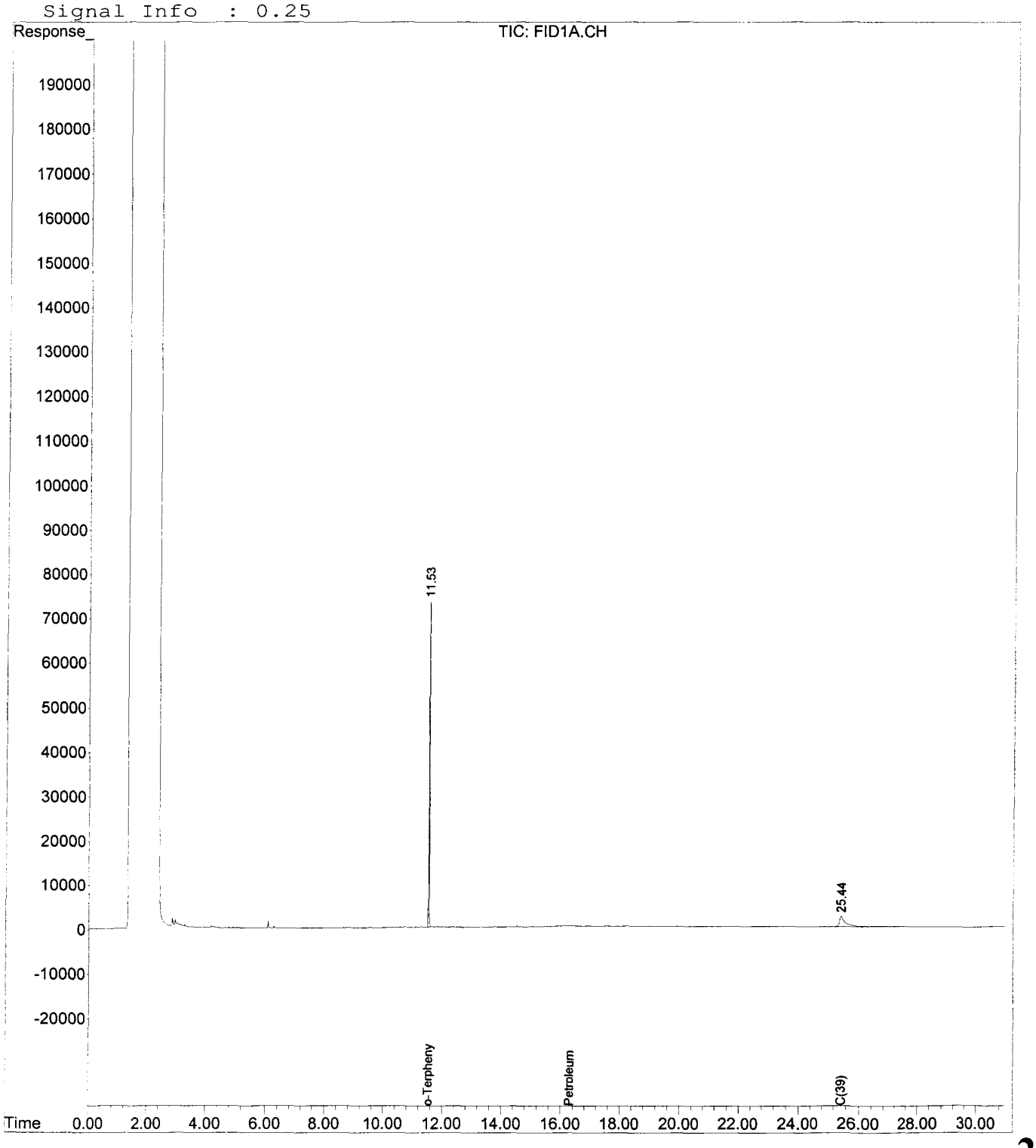
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.53	1005920	22.799 ug/mlm
Spiked Amount 25.000		Recovery =	91.20%
3) SC C(39)	25.44	343679	84.372 ug/mlm
Spiked Amount 150.000		Recovery =	56.25%
Target Compounds			
1) HM Petroleum Range Organics	16.30	1989600	68.569 ug/ml

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\O10640.D Vial: 68
Acq On : 03/14/05 01:52 Operator: ML
Sample : 7765-002 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 8:38 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\O10641.D Vial: 69
Acq On : 03/14/05 02:31 Operator: ML
Sample : 7765-003 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 08:17:44 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.53	1127688	25.558 ug/mlm
Spiked Amount 25.000		Recovery =	102.23%
3) SC C(39)	25.44	551752	135.454 ug/mlm
Spiked Amount 150.000		Recovery =	90.30%
Target Compounds			
1) HM Petroleum Range Organics	16.30	16866007	581.265 ug/ml

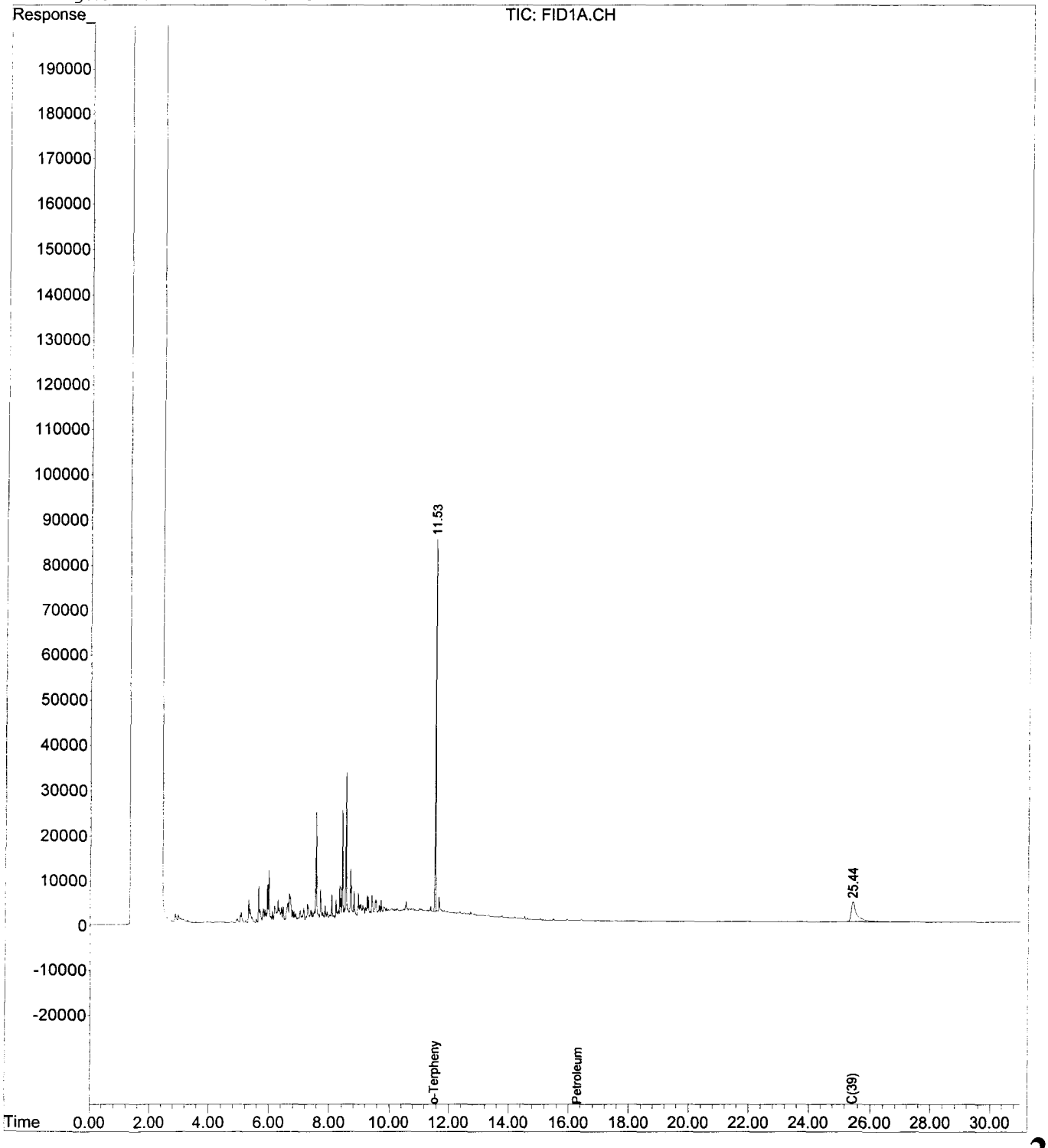
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\O10641.D
Acq On : 03/14/05 02:31
Sample : 7765-003
Misc :
IntFile : PRO0722.E
Quant Time: Mar 14 8:39 2005 Quant Results File: 0228PRO.RES

Vial: 69
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010642.D Vial: 70
Acq On : 03/14/05 03:09 Operator: ML
Sample : 7765-004 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 08:18:22 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.53	1233265	27.951 ug/mlm
Spiked Amount 25.000		Recovery =	111.80%
3) SC C(39)	25.45	513974	126.179 ug/mlm
Spiked Amount 150.000		Recovery =	84.12%
Target Compounds			
1) HM Petroleum Range Organics	16.30	2724107	93.883 ug/ml

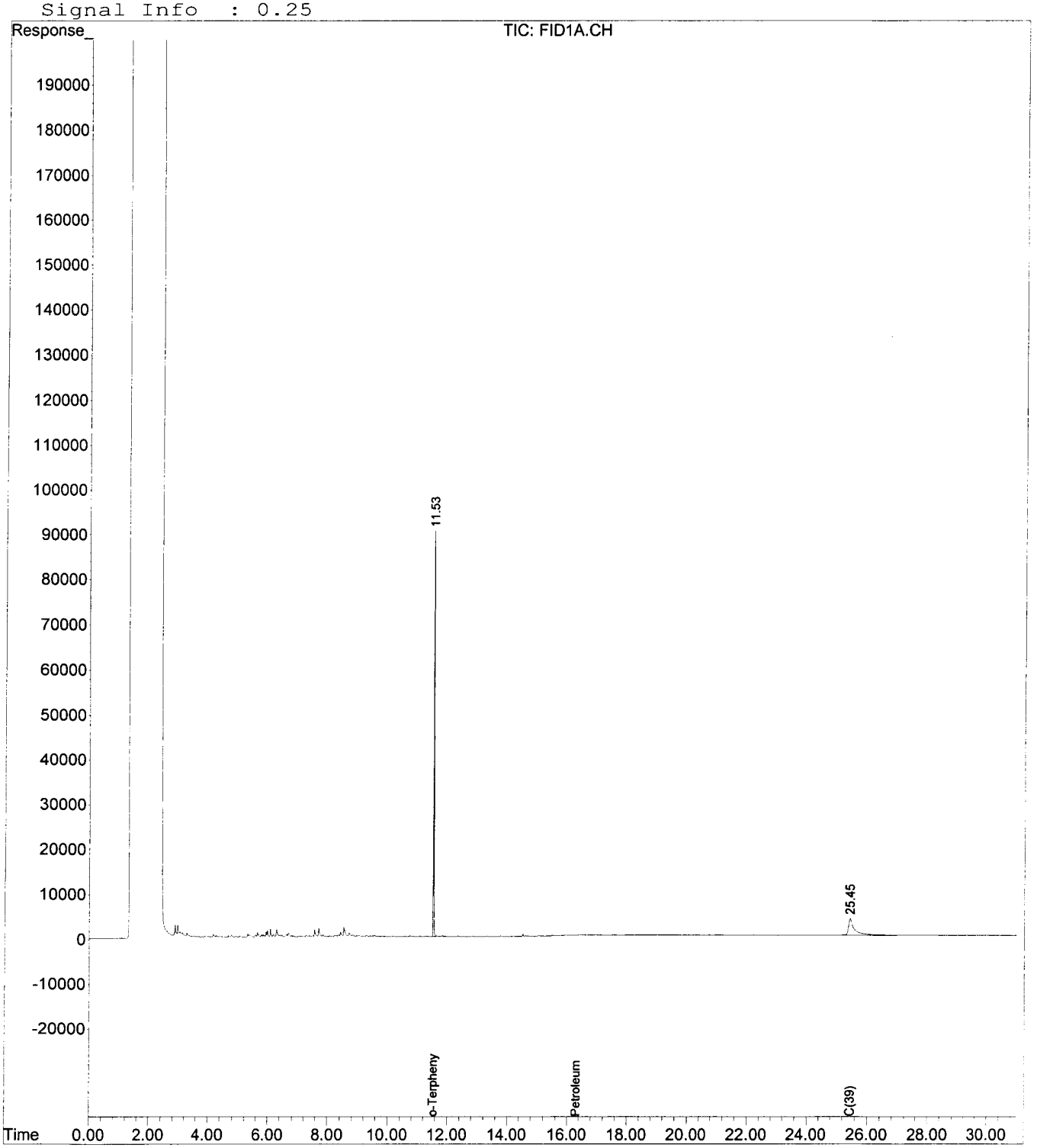
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\O10642.D
Acq On : 03/14/05 03:09
Sample : 7765-004
Misc :
IntFile : PRO0722.E
Quant Time: Mar 14 8:39 2005 Quant Results File: 0228PRO.RES

Vial: 70
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\O10643.D Vial: 71
Acq On : 03/14/05 03:48 Operator: ML
Sample : 7765-005 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 08:19:00 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

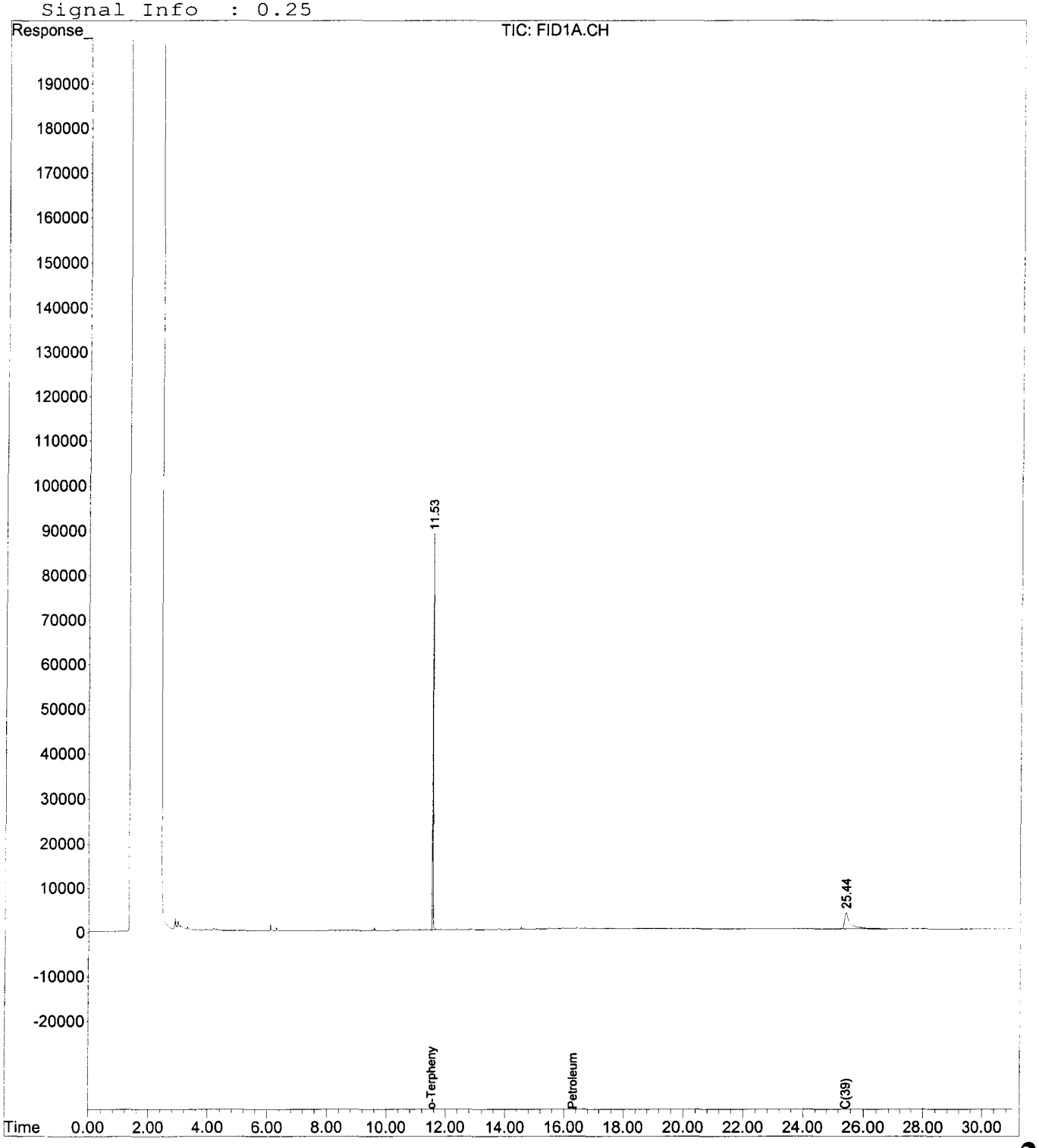
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.53	1233643	27.960 ug/mlm
Spiked Amount 25.000		Recovery =	111.84%
3) SC C(39)	25.44	465467	114.271 ug/mlm
Spiked Amount 150.000		Recovery =	76.18%
Target Compounds			
1) HM Petroleum Range Organics	16.30	2092273	72.108 ug/ml

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010643.D
Vial: 71
Acq On : 03/14/05 03:48
Operator: ML
Sample : 7765-005
Inst : HP-GCO
Misc :
Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 8:40 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\O10644.D Vial: 72
Acq On : 03/14/05 04:27 Operator: ML
Sample : 7765-006 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 08:19:37 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

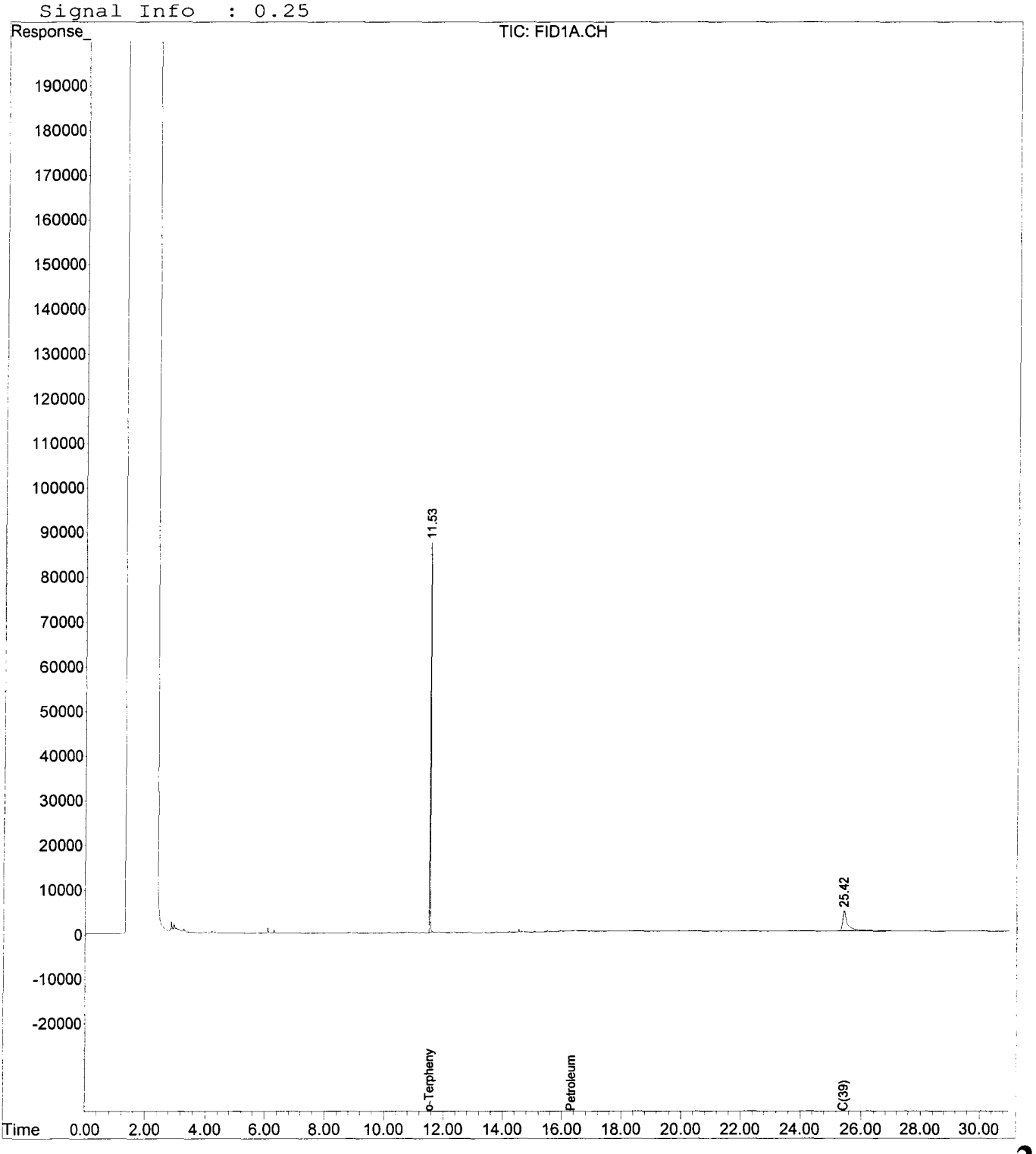
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.53	1213910	27.512 ug/mlm
Spiked Amount 25.000		Recovery =	110.05%
3) SC C(39)	25.42	522045	128.161 ug/mlm
Spiked Amount 150.000		Recovery =	85.44%
Target Compounds			
1) HM Petroleum Range Organics	16.30	1738643	59.920 ug/ml

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010644.D
Vial: 72
Acq On : 03/14/05 04:27
Operator: ML
Sample : 7765-006
Inst : HP-GCO
Misc :
Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 8:41 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010647.D Vial: 74
Acq On : 03/14/05 06:23 Operator: ML
Sample : 7765-007 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 08:20:11 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

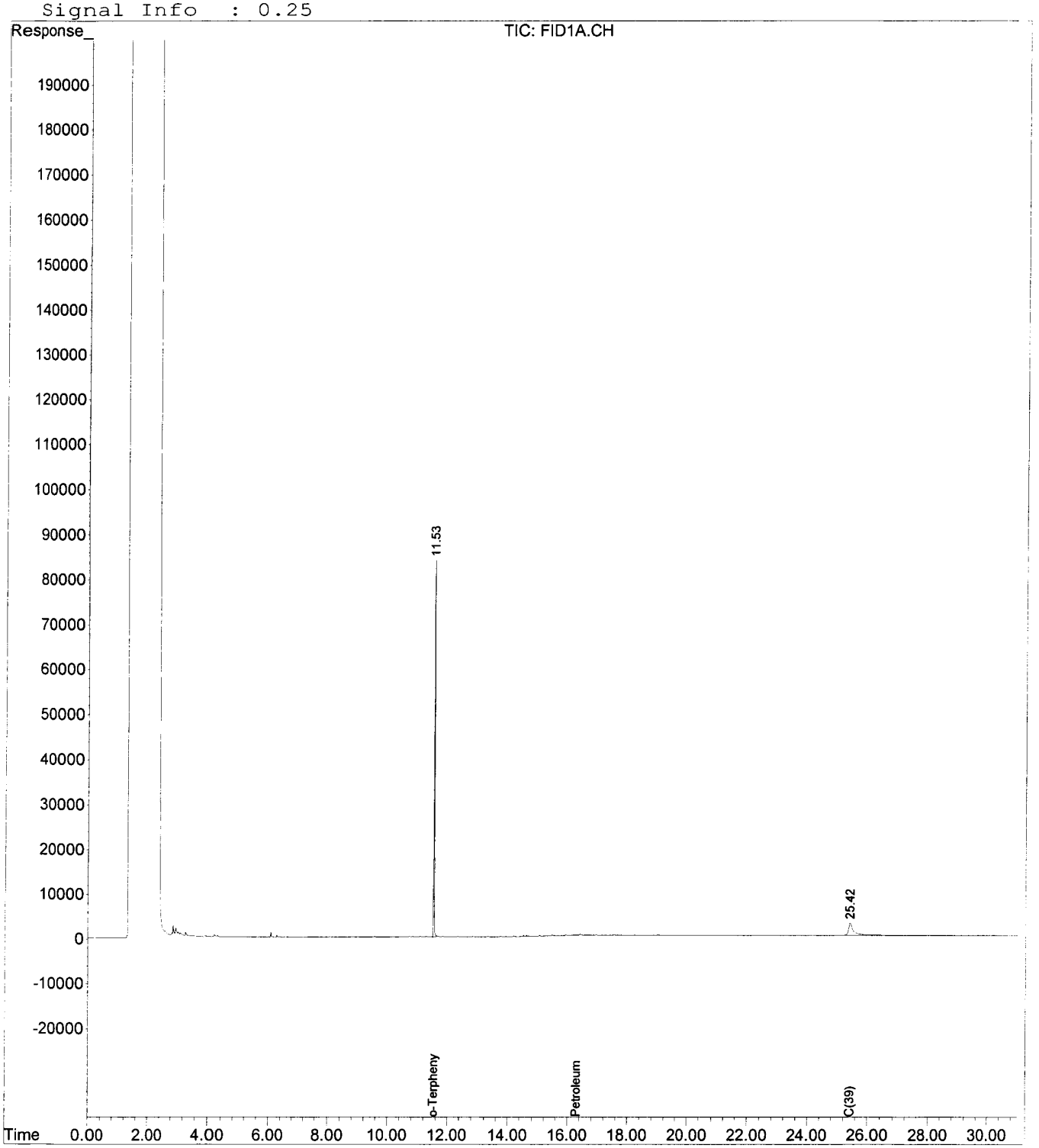
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.53	1168855	26.491 ug/mlm
Spiked Amount 25.000		Recovery =	105.96%
3) SC C(39)	25.42	353279	86.729 ug/mlm
Spiked Amount 150.000		Recovery =	57.82%
Target Compounds			
1) HM Petroleum Range Organics	16.30	1763132	60.764 ug/ml

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\O10647.D Vial: 74
Acq On : 03/14/05 06:23 Operator: ML
Sample : 7765-007 Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 8:41 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010635.D
Vial: 63
Acq On : 03/13/05 22:39
Operator: ML
Sample : 25340BLK
Inst : HP-GCO
Misc :
Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 08:13:54 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.53	1213569	27.505 ug/mlm
Spiked Amount 25.000		Recovery =	110.02%
3) SC C(39)	25.44	467992	114.891 ug/mlm
Spiked Amount 150.000		Recovery =	76.59%
Target Compounds			
1) HM Petroleum Range Organics	16.30	1938137	66.795 ug/ml

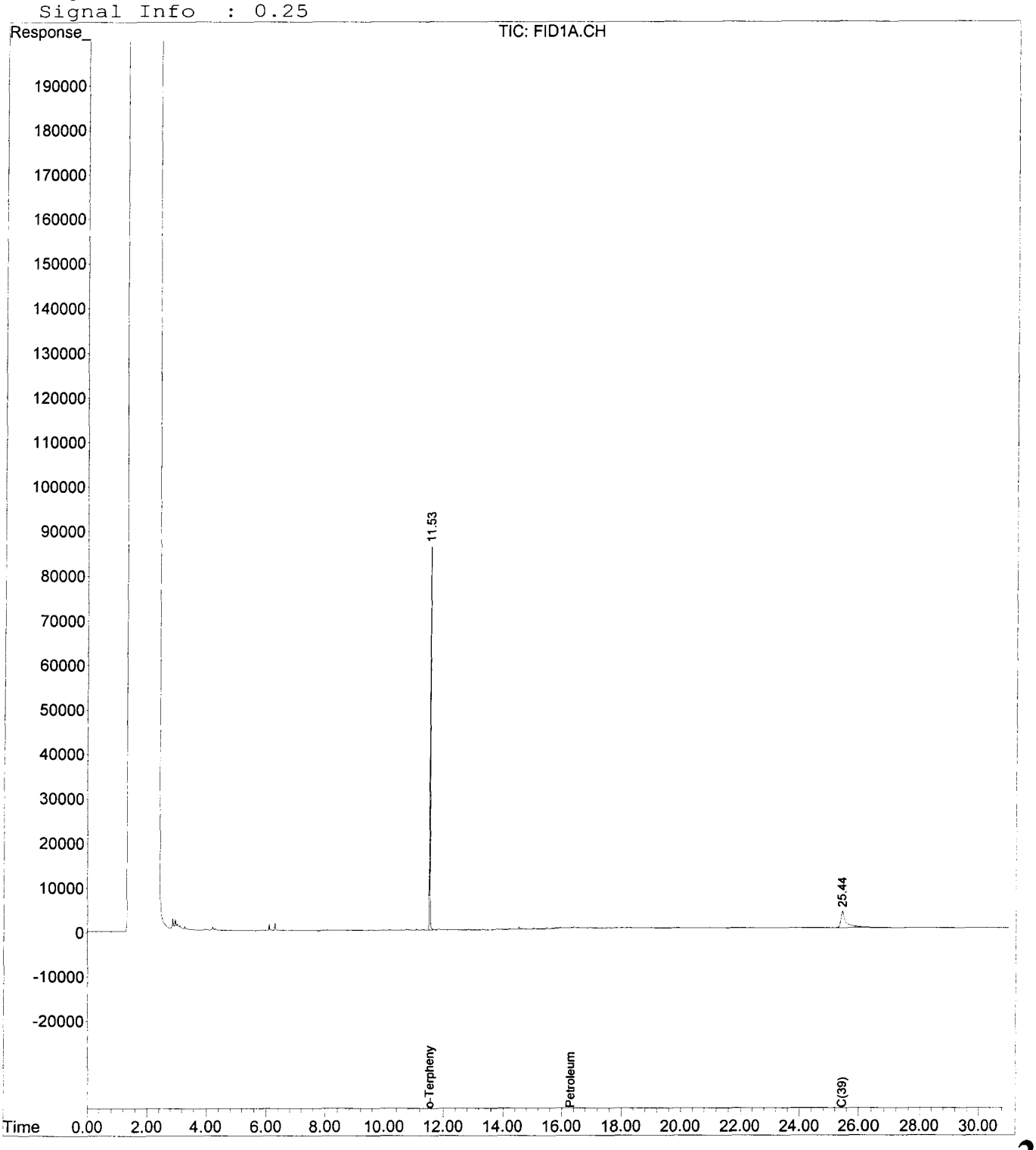
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010635.D
Acq On : 03/13/05 22:39
Sample : 25340BLK
Misc :
IntFile : PRO0722.E
Quant Time: Mar 14 8:35 2005 Quant Results File: 0228PRO.RES

Vial: 63
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010636.D
Vial: 64
Acq On : 03/13/05 23:18
Operator: ML
Sample : 25340BKS
Inst : HP-GCO
Misc :
Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 08:14:36 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.53	1261866	28.599 ug/mlm
Spiked Amount 25.000		Recovery =	114.40%
3) SC C(39)	25.43	441301	108.338 ug/mlm
Spiked Amount 150.000		Recovery =	72.23%
Target Compounds			
1) HM Petroleum Range Organics	16.30	61021650	2103.033 ug/ml

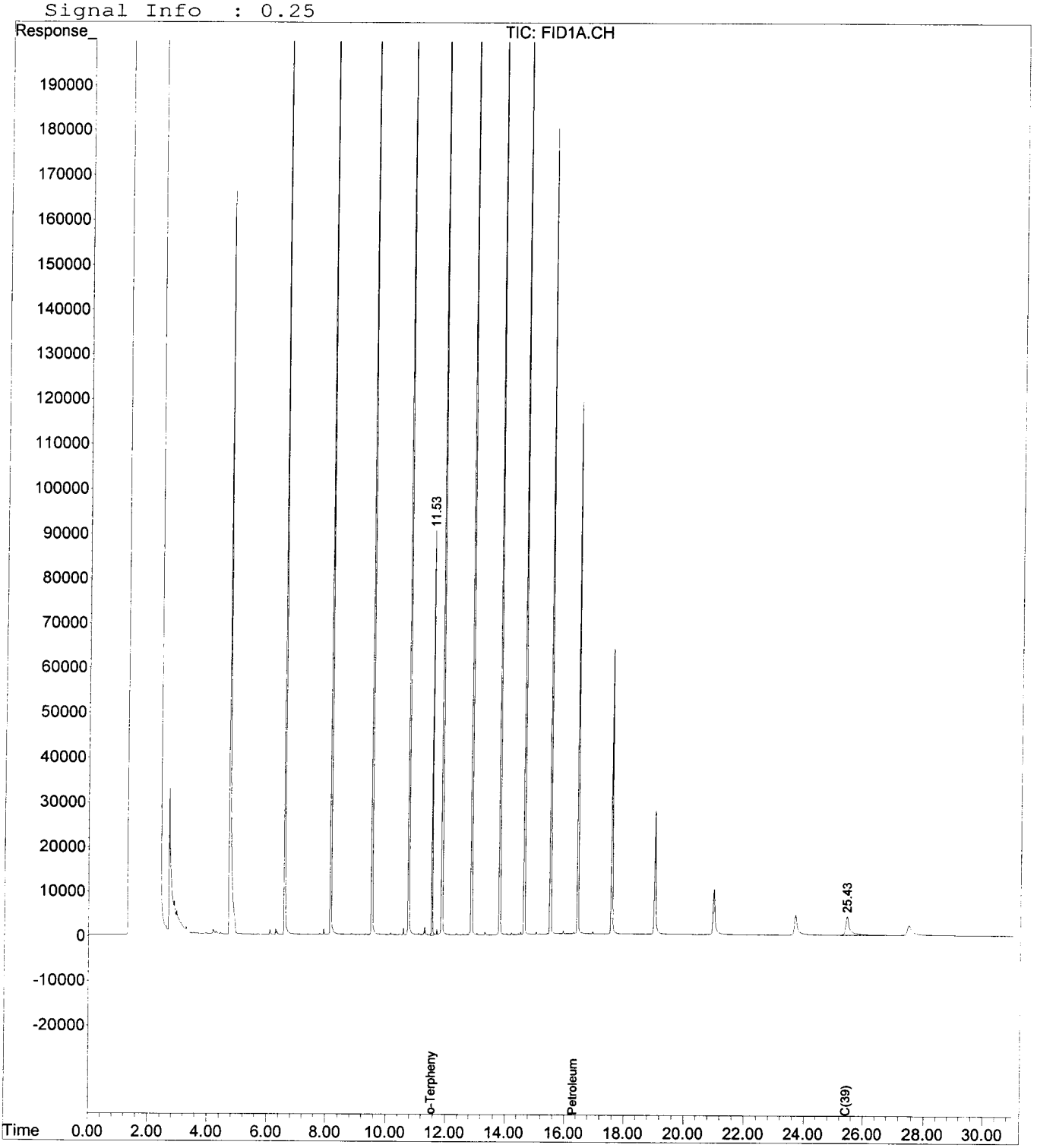
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\O10636.D
Acq On : 03/13/05 23:18
Sample : 25340BKS
Misc :
IntFile : PRO0722.E
Quant Time: Mar 14 8:36 2005 Quant Results File: 0228PRO.RES

Vial: 64
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010637.D Vial: 65
Acq On : 03/13/05 23:56 Operator: ML
Sample : 7765-001MS Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 08:15:15 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.53	952111	21.579 ug/mlm
Spiked Amount 25.000		Recovery =	86.32%
3) SC C(39)	25.42	256127	62.879 ug/mlm
Spiked Amount 150.000		Recovery =	41.92%
Target Compounds			
1) HM Petroleum Range Organics	16.30	44911078	1547.803 ug/ml

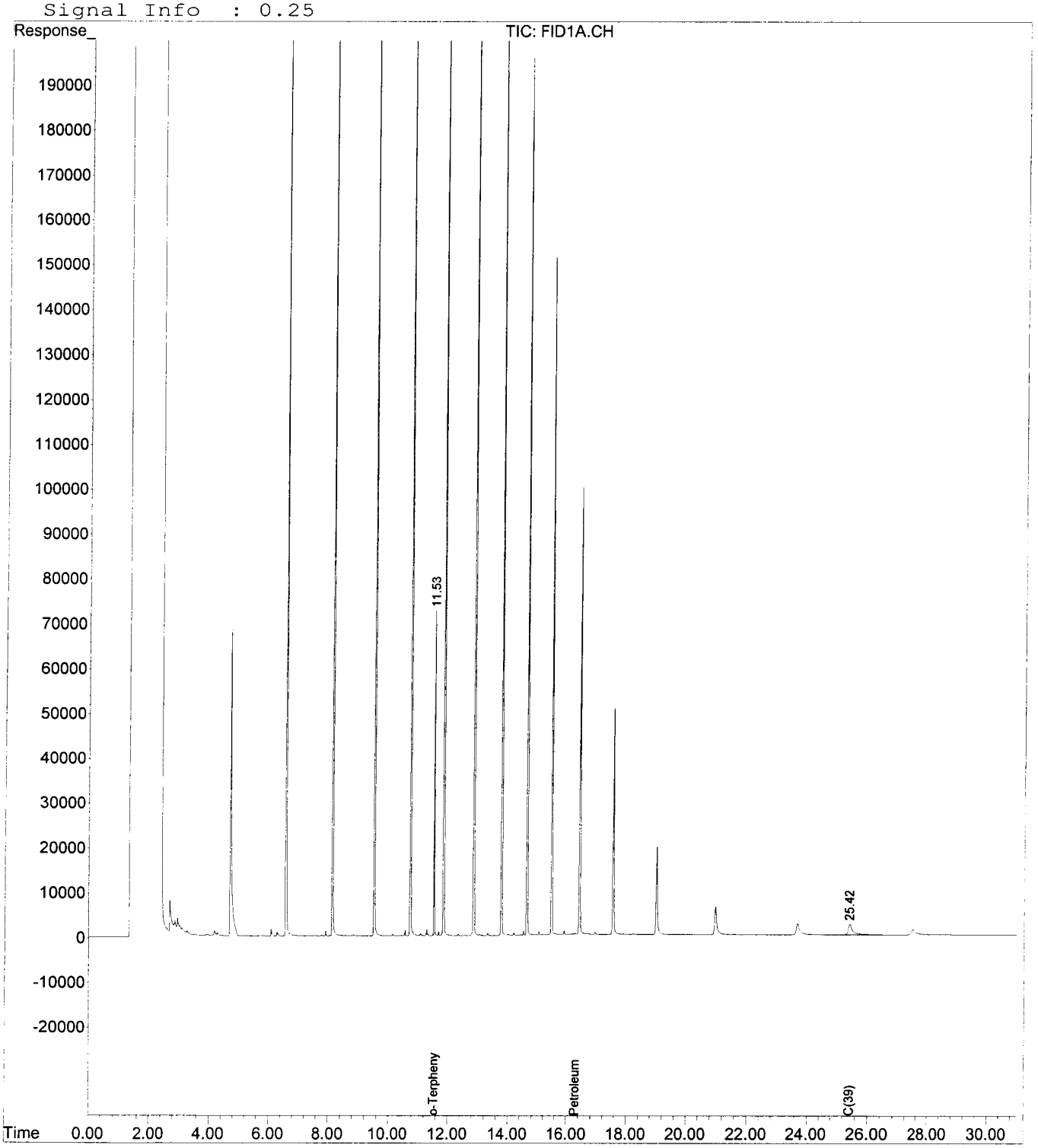
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010637.D
Acq On : 03/13/05 23:56
Sample : 7765-001MS
Misc :
IntFile : PRO0722.E
Quant Time: Mar 14 8:36 2005 Quant Results File: 0228PRO.RES

Vial: 65
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010638.D Vial: 66
Acq On : 03/14/05 00:35 Operator: ML
Sample : 7765-001MSD Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 08:15:53 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.53	1114960	25.270 ug/mlm
Spiked Amount 25.000		Recovery =	101.08%
3) SC C(39)	25.44	403989	99.178 ug/mlm
Spiked Amount 150.000		Recovery =	66.12%
Target Compounds			
1) HM Petroleum Range Organics	16.30	50329368	1734.537 ug/ml

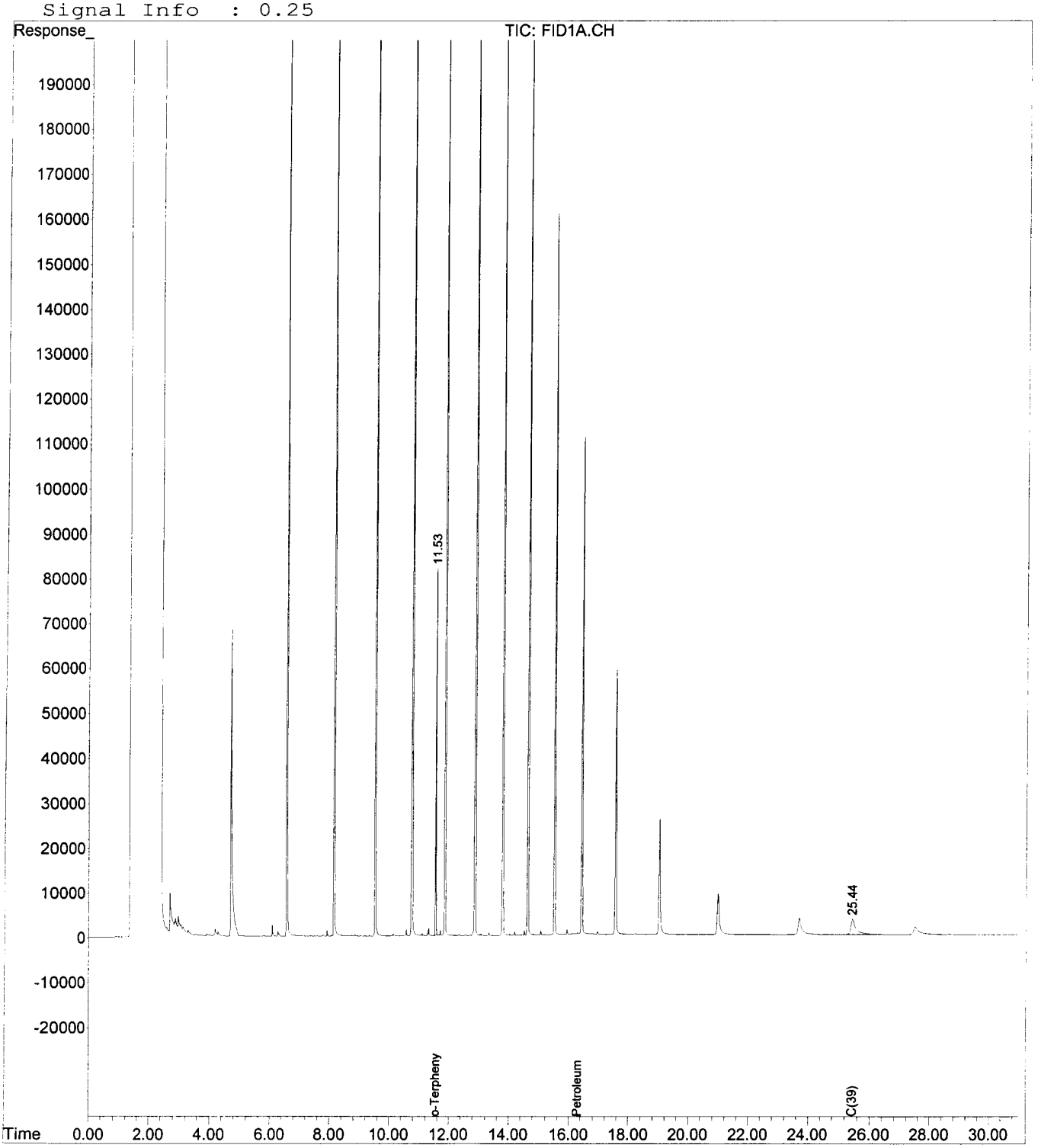
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010638.D
Acq On : 03/14/05 00:35
Sample : 7765-001MSD
Misc :
IntFile : PRO0722.E
Quant Time: Mar 14 8:37 2005 Quant Results File: 0228PRO.RES

Vial: 66
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Injection Log

Directory: E:\1\DATA\022805

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	O10295.d	1.	IBLK		28 Feb 2005 09:02
2	2	O10296.d	1.	FLOR 4125 PPM	04SV163	28 Feb 2005 09:53
3	3	O10297.d	1.	FLO SURROGATE	50/300	28 Feb 2005 10:59
4	4	O10298.d	1.	FLO 850 PPM	05SV011	28 Feb 2005 11:50
5	5	O10299.d	1.	FLO 1700 PPM	ICAL 05SV012	28 Feb 2005 12:43
6	6	O10300.d	1.	FLO 2125 PPM	ICAL 05SV013	28 Feb 2005 13:21
7	7	O10301.d	1.	FLO 4250 PPM	ICAL 05SV014	28 Feb 2005 14:00
8	8	O10302.d	1.	FLO 5950 PPM	ICAL 05SV015	28 Feb 2005 14:39
9	9	O10303.d	1.	FLO 4250 PPM	ICV 05SV016	28 Feb 2005 15:18
10	10	O10304.d	1.	25206BLK	FLPRO_W	28 Feb 2005 15:59
11	11	O10305.d	1.	25206BKS	FLPRO_W	28 Feb 2005 16:38
12	12	O10306.d	1.	7673-001 Influent-46	FLPRO_W	28 Feb 2005 17:16
13	13	O10307.d	1.	7673-002 CBank-46	FLPRO_W	28 Feb 2005 17:55
14	14	O10308.d	1.	7673-003 Effuent-46	FLPRO_W	28 Feb 2005 18:34
15	15	O10309.d	1.	7673-003MS Effuent-46	FLPRO_W	28 Feb 2005 19:12
16	16	O10310.d	1.	7673-003MSD Effuent-46	FLPRO_W	28 Feb 2005 19:51
17	17	O10311.d	1.	7673-004 SYSDUP-46	FLPRO_W	28 Feb 2005 20:30
18	18	O10312.d	1.	7678-035 TRIP BLANK	FLPRO_W	28 Feb 2005 21:08
19	19	O10313.d	1.	7678-036 EQ BLANK	FLPRO_W	28 Feb 2005 21:47
20	20	O10314.d	1.	25206BLK2	FLPRO_W	28 Feb 2005 22:26
21	21	O10315.d	1.	FLO 4250 PPM	05SV014	28 Feb 2005 23:04

Response Factor Report HP-GCO

Method : E:\1\METHODS\OLD METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005

Calibration Files
1 =O10298.D 2 =O10299.D 3 =O10300.D
4 =O10301.D 5 =O10302.D 6 =O009890.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	HM	Petroleum Range	2.925	2.799	2.872	2.913	2.998		2.902 E4	2.52
2)	SC	o-Terphenyl	4.087	4.302	4.497	4.420	4.755		4.412 E4	5.58
3)	SC	C(39)	3.419		4.872	3.877	4.126		4.073 E3	14.92

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\O10298.D Vial: 4
Acq On : 02/28/05 11:50 Operator: BP
Sample : FLO 850 PPM Inst : HP-GCO
Misc : 05SV011 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Feb 28 15:21:56 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:20:41 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

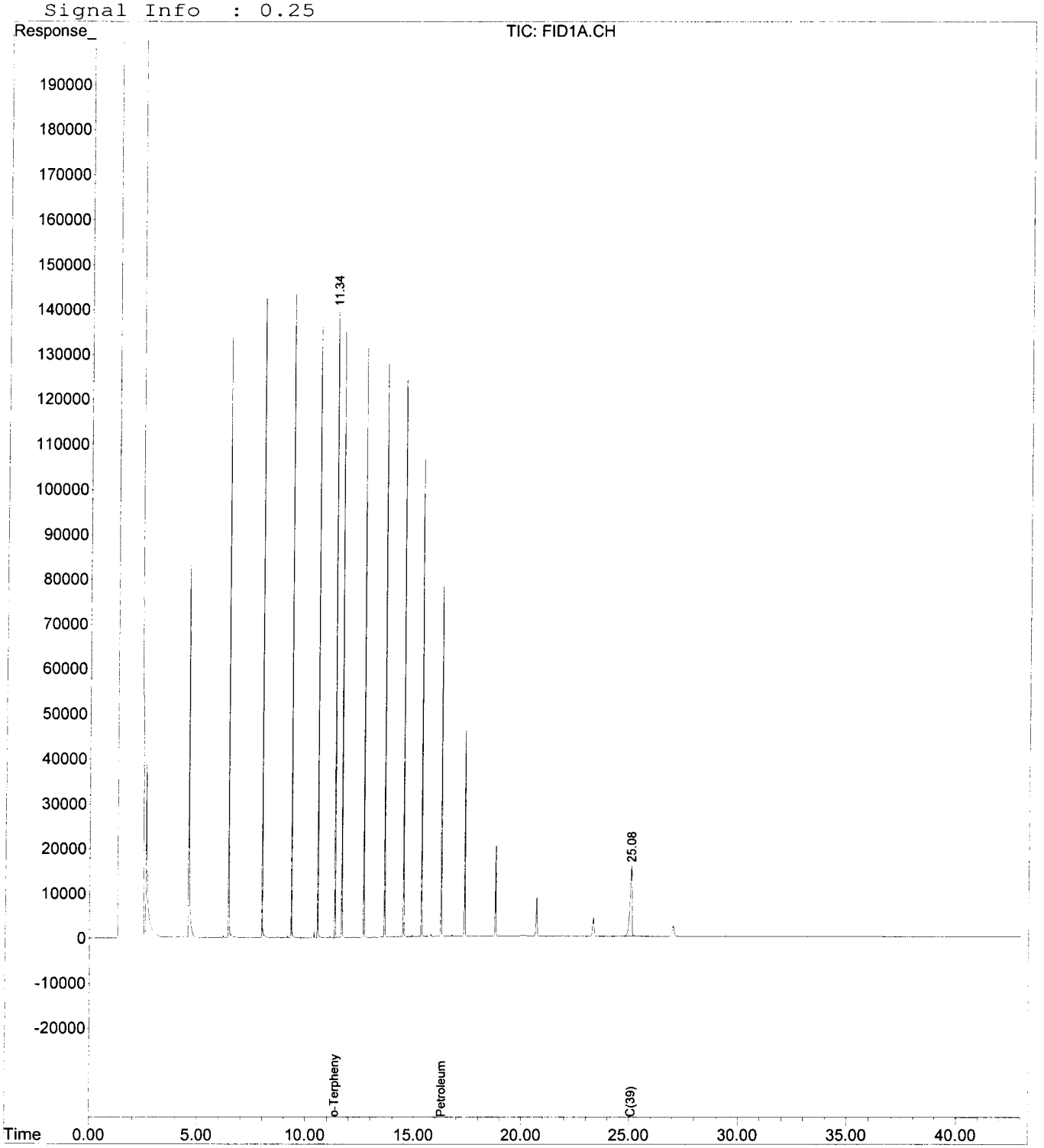
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.34	2043408	46.432 ug/mlm
Spiked Amount 25.000		Recovery =	185.73%
3) SC C(39)	25.08f	1025573	251.481 ug/mlm
Spiked Amount 300.000		Recovery =	83.83%
Target Compounds			
1) HM Petroleum Range Organics	16.30	24865567	856.814 ug/ml

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010298.D Vial: 4
Acq On : 02/28/05 11:50 Operator: BP
Sample : FLO 850 PPM Inst : HP-GCO
Misc : 05SV011 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Feb 28 15:42 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:20:41 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010299.D Vial: 5
Acq On : 02/28/05 12:43 Operator: BP
Sample : FLO 1700 PPM Inst : HP-GCO
Misc : ICAL 05SV012 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Feb 28 15:22:39 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:22:30 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.34	2151002	48.865 ug/mlm
Spiked Amount 25.000		Recovery =	195.46%
3) SC C(39)	25.04	705176	172.714 ug/mlm
Spiked Amount 300.000		Recovery =	57.57%
Target Compounds			
1) HM Petroleum Range Organics	16.30	47586046	1639.825 ug/ml

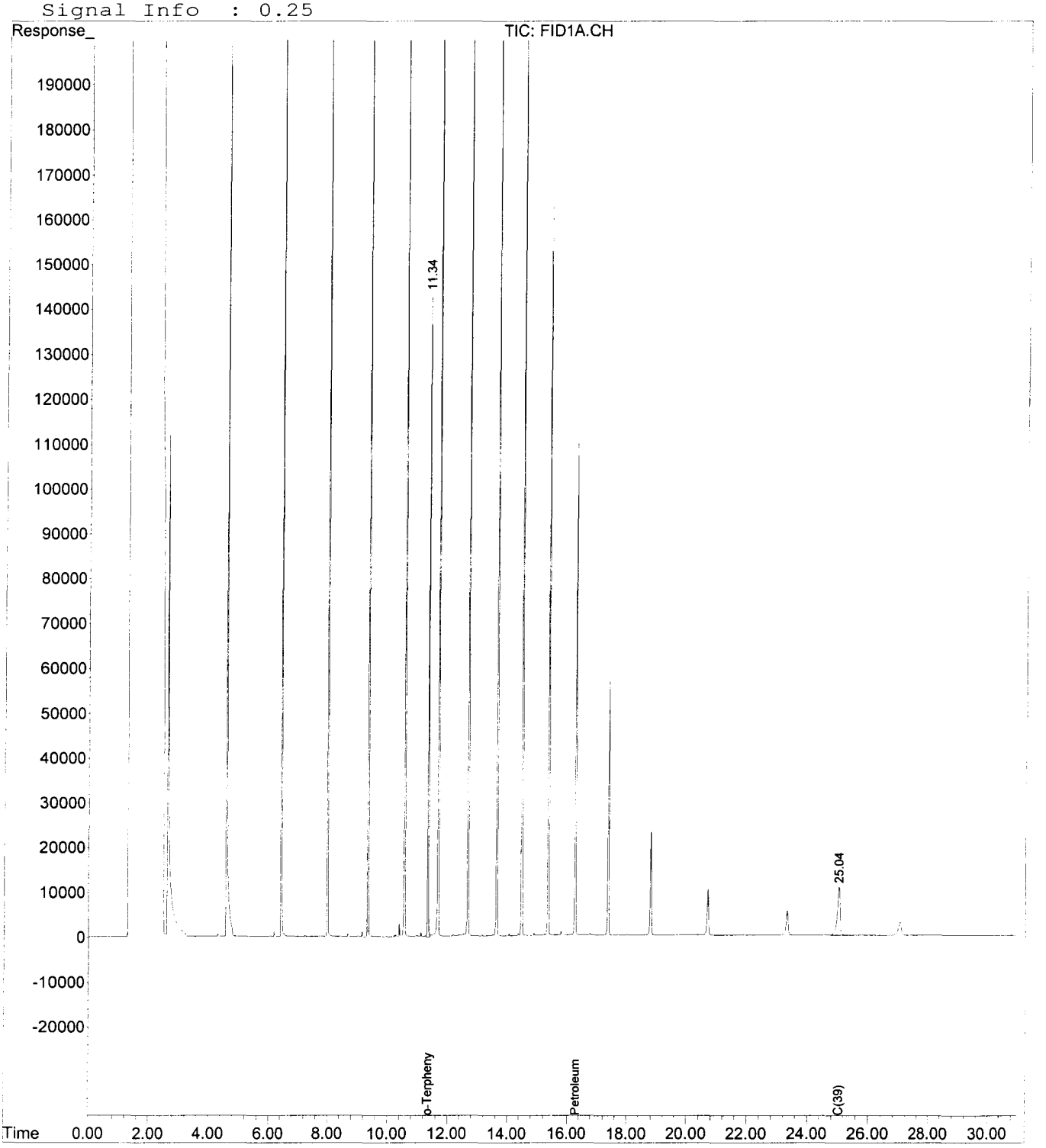
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010299.D Vial: 5
Acq On : 02/28/05 12:43 Operator: BP
Sample : FLO 1700 PPM Inst : HP-GCO
Misc : ICAL 05SV012 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Feb 28 15:43 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:22:30 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010300.D Vial: 6
Acq On : 02/28/05 13:21 Operator: BP
Sample : FLO 2125 PPM Inst : HP-GCO
Misc : ICAL 05SV013 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Feb 28 15:23:34 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:23:26 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.34	2158337	48.964 ug/mlm
Spiked Amount 25.000		Recovery =	195.86%
3) SC C(39)	25.10f	1461545	357.966 ug/mlm
Spiked Amount 300.000		Recovery =	119.32%
Target Compounds			
1) HM Petroleum Range Organics	16.30	61039568	2103.625 ug/ml

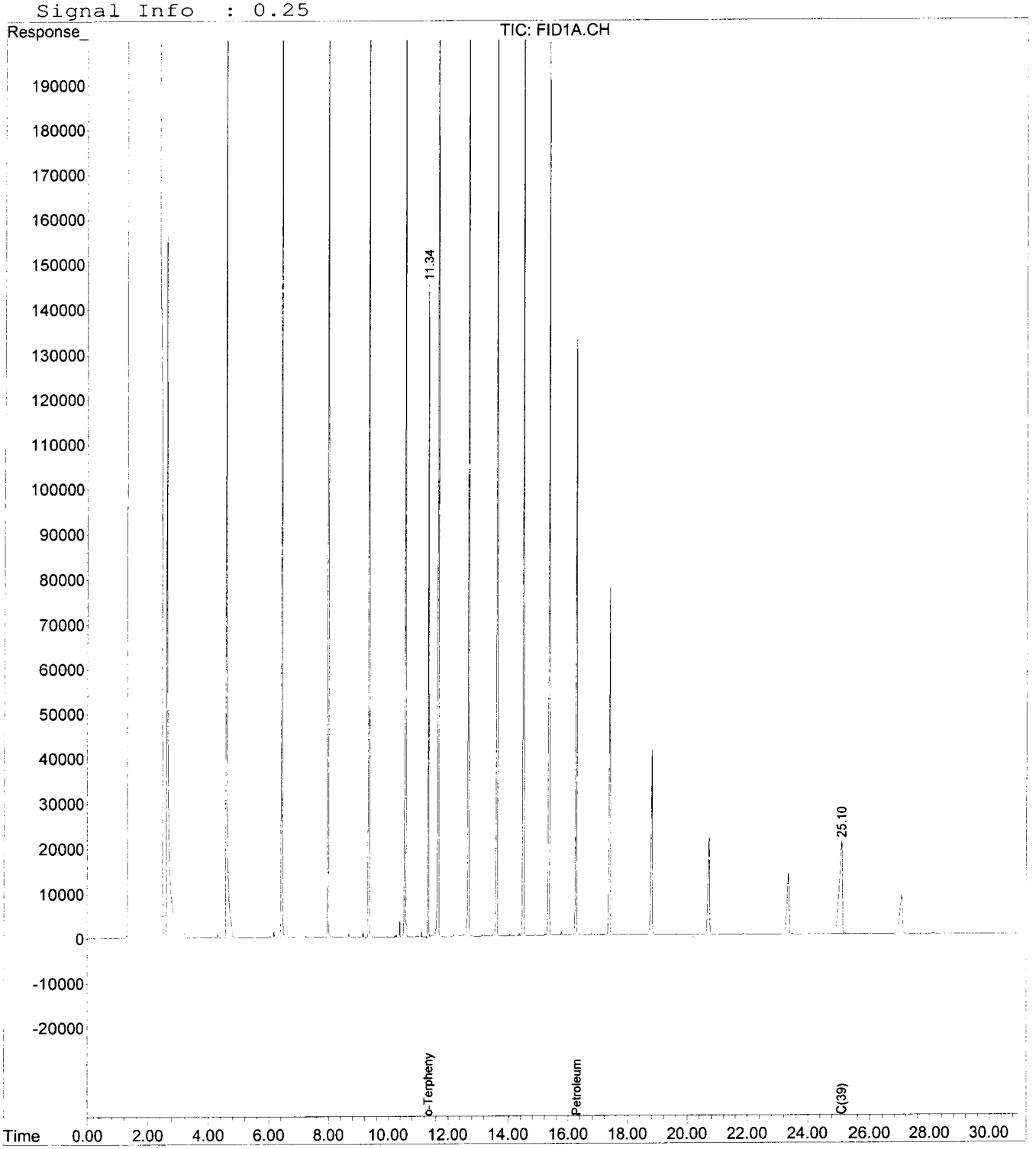
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010300.D
Acq On : 02/28/05 13:21
Sample : FLO 2125 PPM
Misc : ICAL 05SV013
IntFile : PRO0722.E
Quant Time: Feb 28 15:43 2005 Quant Results File: 0228PRO.RES

Vial: 6
Operator: BP
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:23:26 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\O10301.D Vial: 7
Acq On : 02/28/05 14:00 Operator: BP
Sample : FLO 4250 PPM Inst : HP-GCO
Misc : ICAL 05SV014 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Feb 28 15:24:10 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:24:02 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.34	2210244	50.042 ug/mlm
Spiked Amount 25.000		Recovery =	200.17%
3) SC C(39)	25.08	1163161	285.327 ug/mlm
Spiked Amount 300.000		Recovery =	95.11%
Target Compounds			
1) HM Petroleum Range Organics	16.30	123803248	4266.856 ug/ml

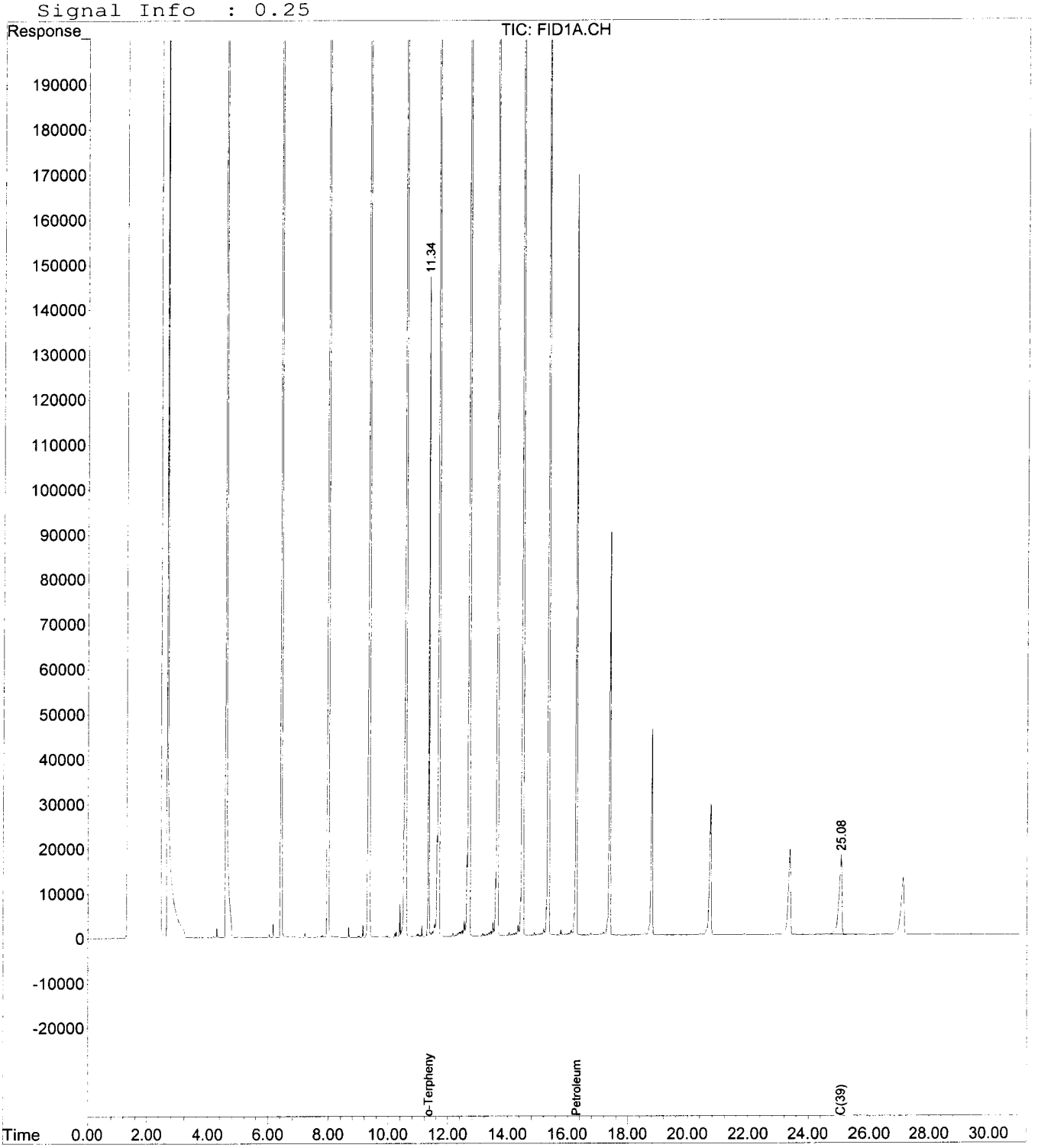
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\O10301.D
Acq On : 02/28/05 14:00
Sample : FLO 4250 PPM
Misc : ICAL 05SV014
IntFile : PRO0722.E
Quant Time: Feb 28 15:44 2005 Quant Results File: 0228PRO.RES

Vial: 7
Operator: BP
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:24:02 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010302.D Vial: 8
Acq On : 02/28/05 14:39 Operator: BP
Sample : FLO 5950 PPM Inst : HP-GCO
Misc : ICAL 05SV015 Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Feb 28 15:24:47 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:24:39 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.36	4755238	107.722 ug/mlm
Spiked Amount 25.000		Recovery =	430.89%
3) SC C(39)	25.15f	2475519	607.185 ug/mlm
Spiked Amount 300.000		Recovery =	202.39%
Target Compounds			
1) HM Petroleum Range Organics	16.30	178381078	6147.815 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

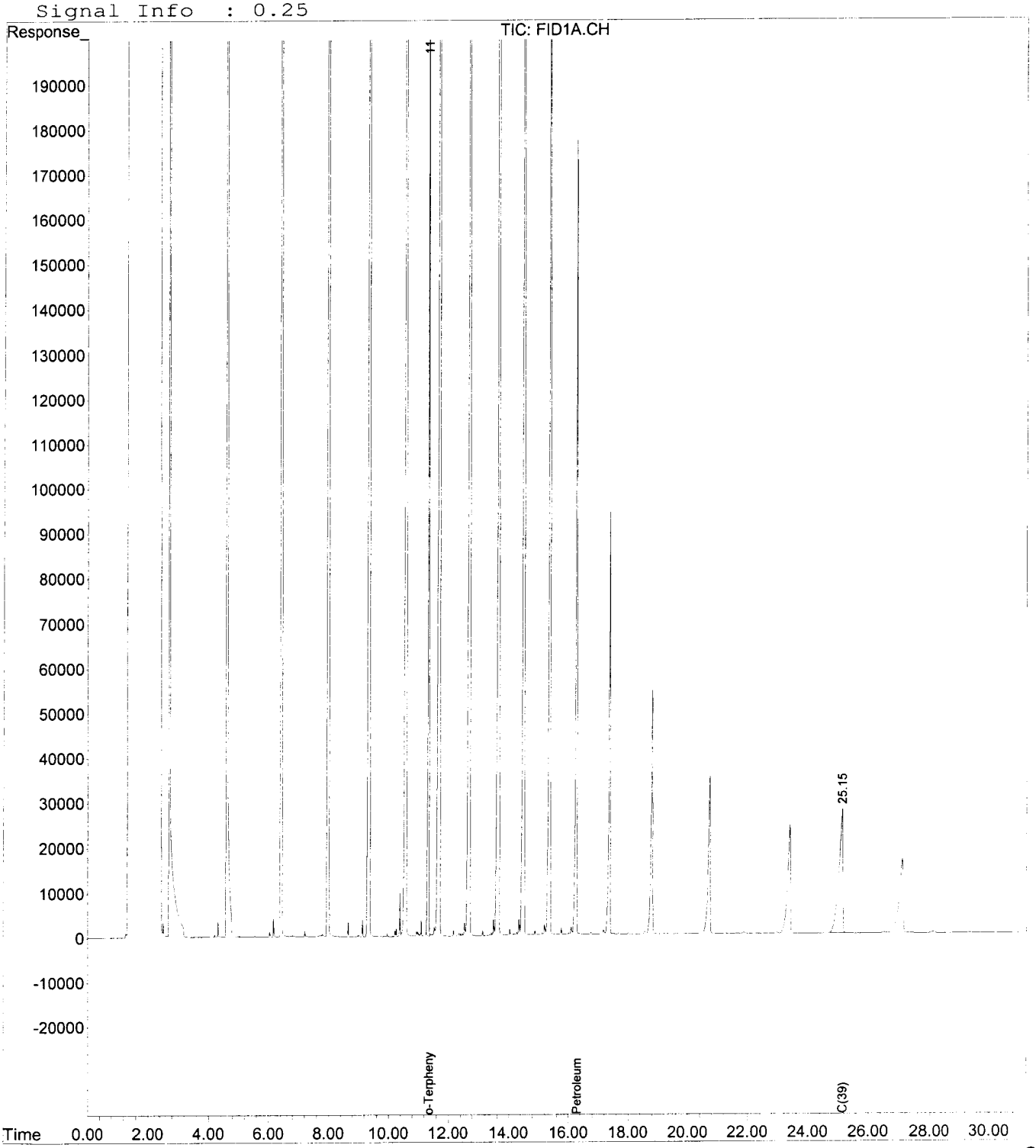
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\022805\010302.D
Acq On : 02/28/05 14:39
Sample : FLO 5950 PPM
Misc : ICAL 05SV015
IntFile : PRO0722.E
Quant Time: Feb 28 15:45 2005 Quant Results File: 0228PRO.RES

Vial: 8
Operator: BP
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Feb 28 15:24:39 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\O10634.D
Vial: 62
Acq On : 03/13/05 22:00
Operator: ML
Sample : 4250 PPM FLPRO CCV
Inst : HP-GCO
Misc :
Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 07:45:46 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 07:44:35 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.55	2701898	61.237 ug/mlm
Spiked Amount 25.000		Recovery =	244.95%
3) SC C(39)	25.50	1474591	362.008 ug/mlm
Spiked Amount 150.000		Recovery =	241.34%
Target Compounds			
1) HM Petroleum Range Organics	16.30	141468452	4875.529 ug/ml

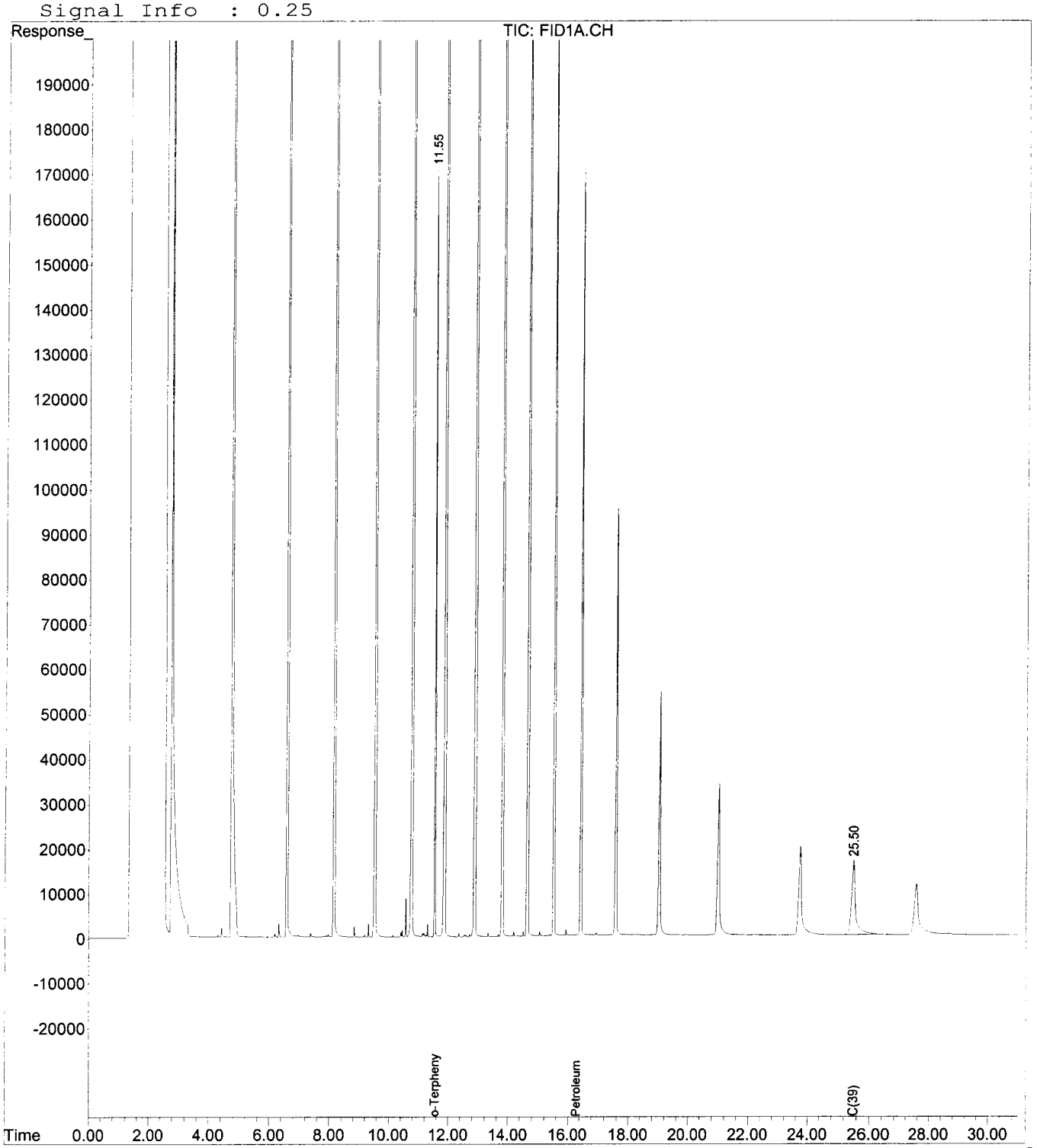
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\O10634.D
Acq On : 03/13/05 22:00
Sample : 4250 PPM FLPRO CCV
Misc :
IntFile : PRO0722.E
Quant Time: Mar 14 8:07 2005 Quant Results File: 0228PRO.RES

Vial: 62
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 07:44:35 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Evaluate Continuing Calibration Report

Data File : E:\1\DATA\031205\O10634.D Vial: 62
Acq On : 03/13/05 22:00 Operator: ML
Sample : 4250 PPM FLPRO CCV Inst : HP-GCO
Misc : Multiplr: 1.00
IntFile : PRO0722.E

Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 07:44:35 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	HM	Petroleum Range Organics	29.016	33.287 E3	-14.7	114	0.00
2	SC	o-Terphenyl	44.122	54.038 E3	-22.5	122	0.00
3	SC	C(39)	4.073	4.915 E3	-20.7	127	0.03

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010645.D
Vial: 73
Acq On : 03/14/05 05:06
Operator: ML
Sample : 4250 PPM FLPRO CCV
Inst : HP-GCO
Misc :
Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 07:48:36 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 07:48:24 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.54	2745190	62.218 ug/mlm
Spiked Amount 25.000		Recovery =	248.87%
3) SC C(39)	25.47	1106342	271.604 ug/mlm
Spiked Amount 150.000		Recovery =	181.07%
Target Compounds			
1) HM Petroleum Range Organics	16.30	140656235	4847.537 ug/ml

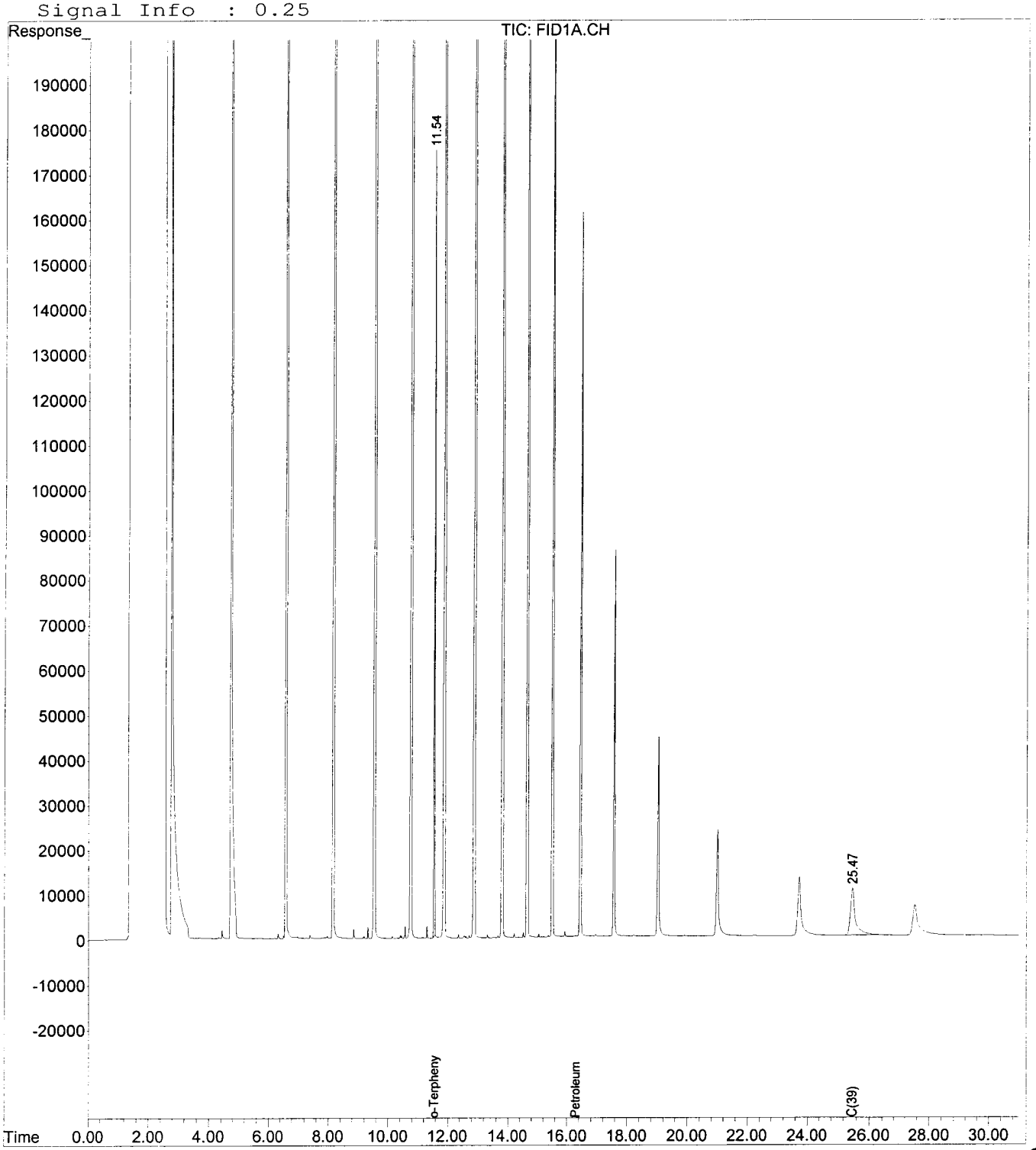
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010645.D
Acq On : 03/14/05 05:06
Sample : 4250 PPM FLPRO CCV
Misc :
IntFile : PRO0722.E
Quant Time: Mar 14 8:10 2005 Quant Results File: 0228PRO.RES

Vial: 73
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 07:48:24 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Evaluate Continuing Calibration Report

Data File : E:\1\DATA\031205\010645.D
Acq On : 03/14/05 05:06
Sample : 4250 PPM FLPRO CCV
Misc :
IntFile : PRO0722.E

Vial: 73
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 07:48:24 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	HM	Petroleum Range Organics	29.016	33.096 E3	-14.1	114	0.00
2	SC	o-Terphenyl	44.122	54.904 E3	-24.4	124	0.00
3	SC	C(39)	4.073	3.688 E3	9.5	95	0.00

Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010650.D
Vial: 77
Acq On : 03/14/05 08:19
Operator: ML
Sample : 2125 PPM FLPRO CCV
Inst : HP-GCO
Misc :
Multiplr: 1.00
IntFile : PRO0722.E
Quant Time: Mar 14 08:35:46 2005 Quant Results File: 0228PRO.RES

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	11.54	2519646	57.106 ug/mlm
Spiked Amount 25.000		Recovery =	228.42%
3) SC C(39)	25.48	1504308	369.303 ug/mlm
Spiked Amount 150.000		Recovery =	246.20%
Target Compounds			
1) HM Petroleum Range Organics	16.30	65855590	2269.629 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

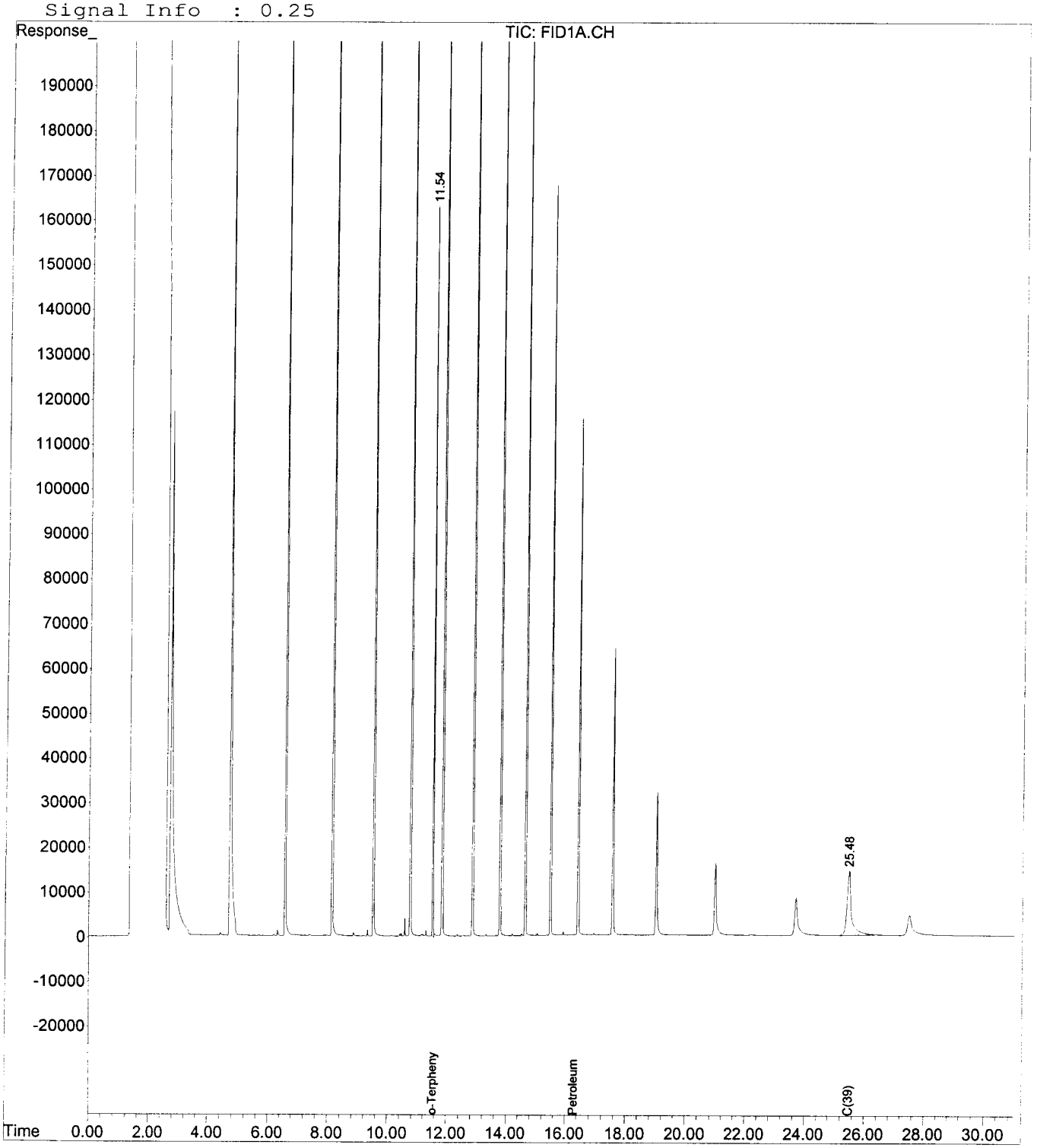
Quantitation Report (QT Reviewed)

Data File : E:\1\DATA\031205\010650.D
Acq On : 03/14/05 08:19
Sample : 2125 PPM FLPRO CCV
Misc :
IntFile : PRO0722.E
Quant Time: Mar 14 8:57 2005 Quant Results File: 0228PRO.RES

Vial: 77
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Quant Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. : 2ul
Signal Phase : ZB-5
Signal Info : 0.25



Evaluate Continuing Calibration Report

Data File : E:\1\DATA\031205\010650.D
Acq On : 03/14/05 08:19
Sample : 2125 PPM FLPRO CCV
Misc :
IntFile : PRO0722.E

Vial: 77
Operator: ML
Inst : HP-GCO
Multiplr: 1.00

Method : E:\1\METHODS\0228PRO.M (Chemstation Integrator)
Title : FL PRO 2/28/05
Last Update : Mon Mar 14 08:13:46 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	HM	Petroleum Range Organics	29.016	30.991 E3	-6.8	108	0.00
2	SC	o-Terphenyl	44.122	52.493 E3	-19.0	117	0.00
3	SC	C(39)	4.073	5.014 E3	-23.1	103	0.03