ANALYTICAL REPORT

Prepared for:
NewFields Environmental Forensics Practice
100 Ledgewood Place, Suite 302
Rockland, MA 02370

Project:	Gowanus Canal
ETR:	0601070
Report Date:	February 16, 2006

Certifications and Accreditations
Massachusetts MA030
Connecticut PH-0141
New Hampshire 220602
Rhode Island 64
New Jersey MA015
Maine MA030
New York 11627
Louisiana 03090
Army Corps of Engineers
Department of the Navy
Florida E87814

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375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Sample ID Cross Reference

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**

Lab Code: **MA00030**
ETR: **0601070**

Lab Sample ID	Client Sample ID
0601070-01	GC-SED-46C (5-5.5)
0601070-02	GC-SED-45C (1-1.5)
0601070-03	GC-SED-55 (1.5-2.5)
0601070-04	GC-SED-47 (1.5-2.5)
0601070-05	GC-SED-49 (10-11)
0601070-06	GC-SED-48 (5-5.8)
0601070-07	GC-SED-78B (2.5-5)
0601070-08	GC-SED-76C (2.5-3.4)
0601070-09	GC-SED-75C (0-0.7)

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Certificate Program Summary

Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate No. : PH-0141 - *Wastewater* (General Chemistry: 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2, 365.2, 405.1, 413.1, COD HACH 8000; Metals: 200.7, 245.1; Organics: 608, 624, 625). *Solid Waste/Soil* (General Chemistry: 1010, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate No. : E87814 - Secondary NELAP Accreditation for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, SM2320B, 335.2, 365.2, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry: 9010/9014, 9045, 9050, 9056, 9060, 9065; Metals: 6010, 6020, 7041, 7060, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Louisiana Department of Environmental Quality Certificate No. : 03090 - Primary NELAP Accrediting Authority for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry:1010, 1311, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7060, 7191, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate No. : MA030 - *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

Massachusetts Department of Environmental Protection Certificate No. : M-MA030 - *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

New Hampshire Department of Environmental Services Certificate No. : 220604 - Secondary NELAP Accreditation for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, COD HACH 8000, SM2540G; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625).

New Jersey Department of Environmental Protection Certificate No. : MA015 - *Solid and Hazardous Waste* (General Chemistry: 1010, 1311, 3060, 7196, 9010/9014, 9045, 9056, 9060; Metals: 3010, 3015, 3020, 3050, 3051, 6010, 6020, 7041, 7060, 7131, 7191, 7211, 7421, 7470, 7471, 7520, 7740, 7761, 7841; Organics: 3510, 3545, 5030, 5035, 3620, 3630, 3640, 3660, 8081, 8082, 8100, 8260, 8270).

New York Department of Health Certificate No. : 11627 - Secondary NELAP Accreditation for *Wastewater* (Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (Metals: 6010, 7041, 7060, 7470, 7471, 7740; Organics: 8081, 8082, 8260, 8270).

Rhode Island Department of Health Certificate No. : 00064 - Chemistry: *Organic and Inorganic in Surface Water, Wastewater/Sewage and Soil* (Method numbers not specified with certificate.)

U.S. Army Corps of Engineers - General Chemistry: 9010/9014, 9071/418.1, 9060; Organics: 8081, 8082, 8260, 8270, 8270-SIM; Metals: 6010, 6020, 7000.

Department of the Navy - General Chemistry: 9010/9014, 9060; Organics: 8081, 8082, 8015-mod, 8260, 8270, 8270-SIM; Metals: 6010, 6020.

CASE NARRATIVE
Alpha Woods Hole Lab

ETR: 0601070
Project: Gowanus Canal

All analyses were performed according to Alpha Woods Hole Lab quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report meet all applicable agency and/or NELAC standards, were performed within holding time, and with appropriate quality control measures, except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted. Tissue and sediment samples are not certifiable under the NELAC accreditation.

Alkylated Polynuclear Aromatic Hydrocarbons
Steranes and Triterpanes

Polynuclear aromatic hydrocarbons and Geochemical Biomarkers were analyzed following Alpha Woods Hole Lab *Analysis of Parent and Alkylated Polynuclear Aromatic Hydrocarbons and Selected Heterocyclic Compounds by Gas Chromatography/Mass Spectrometry with Selected Ion Monitoring (Revision 2.0, 06/28/02).* Sediment samples (approximately 5-30g) are spiked with surrogate compounds and extracted by *Shaker Table Extraction (Revision 0.0, 02/20/02)*. Solvent extracts are dried over sodium sulfate and concentrated to an appropriate final volume based on oil content as determined by gravimetric weighing. A pre-determined volume of the extract is alumina cleaned (*Alumina Column Cleanup of Organic Extracts, Revision 0.0, 02/21/1999*) and again concentrated to a final effective volume determined by a post alumina gravimetric weight. All extracts are treated with activated copper to remove sulfur interferences. A portion of the remaining archive extract portion to equal approximately 50mg is silica fractionated for Biomarker analysis and again concentrated to a final effective volume determined by a post silica gravimetric weight. Qualitative identifications are confirmed by analyzing standards under the same conditions used for samples, comparing mass spectra, GC retention times, and patterns generated from reference oils. Quantification is based on response factors derived from a multi-level initial calibration using internal standard techniques. Alkyl homologues are quantified using the response factor of the parent PAH compound. Target triterpane biomarker concentrations are quantified using the response factor of 17α(H),21β(H)-hopane and the steranes are quantified using the response factor of 5β(H)-cholane.

1. The sediment method blank SS012606B19 contained low-level target compounds detected below the reporting limit. Associated field sample results would be flagged with "B" qualifiers if the concentration of the analyte in the sample is less than 5X the concentration in the blank. Please note that no "B" qualifiers were utilized.

2. The sediment method blank SS020606B06 contained low-level target compounds detected below the reporting limit. Associated field sample results would be flagged with "B" qualifiers if the concentration of the analyte in the sample is less than 5X the concentration in the blank. Please note that no "B" qualifiers were utilized.

3. Samples GC-SED-47 (1.5-2.5) (0601070-04) and GC-SED-48 (5-5.8) (0601070-06) were re-extracted within holding time on 2/6/06 due to non-compliant surrogate recoveries in the original extraction data. Additionally, due to instrument chromatography failure, the biomarker analyses for these two samples were on a different instrument than the other samples in this set.

4. Several samples required dilutions due to over-calibration concentration of target compounds. The diluted analyses are only quantified for the compounds that were out of range in the un-diluted analyses.

Total Petroleum Hydrocarbons by GC/FID

Samples for Total Petroleum Hydrocarbons were analyzed following the procedures in Alpha Woods Hole Lab *Total Petroleum Hydrocarbons by Gas Chromatography/Flame Ionization Detector (Revision 1.1)* Method 8100/8015mod and SOP *Addendum for Saturated Hydrocarbons, Rev. 1.0, 2004.* Samples were prepared as stated above for the PAH analysis. A portion of the final extract was aliquoted for GC/FID analysis. Extracts are analyzed by gas chromatography with flame ionization detection (FID). A multi-level initial calibration over the n-alkane range from C9-C40 was evaluated and quantified using internal standard techniques prior to sample analysis.

1. Samples GC-SED-47 (1.5-2.5) (0601070-04) and GC-SED-48 (5-5.8) (0601070-06) were re-extracted within holding time on 2/6/06 due to non-compliant surrogate recoveries in the original extraction data.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Woods Hole Lab makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Woods Hole Lab. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Elizabeth Porta Title: QA manager Date: 2/16/06

Elizabeth Porta **Quality Assurance Manager**

Sample Preparation Records

Alpha Woods Hole Lab
Batch Prep Report
01/26/2006 0601070STBIO - OP NEWFIE

Lab ID	QC Type	Prep Method	Analyst	Prep Start Date	Prep Completed	TCLP Date	Initial Amount	Final Volume	Solvent Ex	Conc. Analyst	Conc. Date	Conc. Method	Transfer Volume	Vialed By	Vialed Date	Cell Number
0601070-01	SAM	Shaker	MAL	1/26/06	2/1/06		5.96	166.67	False	RPR	1/30/06	KD Flask	0.15	KLA	2/1/06	
0601070-02	SAM	Shaker	MAL	1/26/06	2/1/06		5.19	89.29	False	RPR	1/30/06	KD Flask	0.15	KLA	2/1/06	
0601070-03	SAM	Shaker	MAL	1/26/06	2/1/06		10.67	17.54	False	RPR	1/30/06	KD Flask	0.15	KLA	2/1/06	
~~0601070-04~~	~~SAM~~	~~Shaker~~	~~MAL~~	~~1/26/06~~	~~2/1/06~~		~~5.29~~	~~25~~	~~False~~	~~RPR~~	~~1/30/06~~	~~KD Flask~~	~~0.15~~	~~KLA~~	~~2/1/06~~	
* 0601070-05	SAM	Shaker	MAL	1/26/06	2/1/06		5.75	15.87	False	RPR	1/30/06	KD Flask	0.15	KLA	2/1/06	
~~0601070-06~~	~~SAM~~	~~Shaker~~	~~MAL~~	~~1/26/06~~	~~2/1/06~~		~~5.89~~	~~196.08~~	~~False~~	~~RPR~~	~~1/30/06~~	~~KD Flask~~	~~0.15~~	~~KLA~~	~~2/1/06~~	
0601070-07	SAM	Shaker	MAL	1/26/06	2/1/06		10.8	18.1	False	RPR	1/30/06	KD Flask	0.15	KLA	2/1/06	
0601070-08	SAM	Shaker	MAL	1/26/06	2/1/06		10.52	16.81	False	RPR	1/30/06	KD Flask	0.15	KLA	2/1/06	
0601070-09	D	Shaker	MAL	1/26/06	2/1/06		10.16	5.85	False	RPR	1/30/06	KD Flask	0.15	KLA	2/1/06	
0601070-09	SAM	Shaker	MAL	1/26/06	2/1/06		10.22	6.58	False	RPR	1/30/06	KD Flask	0.15	KLA	2/1/06	
SS012606B19	B	Shaker	MAL	1/26/06	2/1/06		30	4	False	RPR	1/30/06	KD Flask	0.15	KLA	2/1/06	
SS012606LCS05	LCS	Shaker	MAL	1/26/06	2/1/06		30	4	False	RPR	1/30/06	KD Flask	0.15	KLA	2/1/06	
SS012606LCSD05	LCSD	Shaker	MAL	1/26/06	2/1/06		30	4	False	RPR	1/30/06	KD Flask	0.15	KLA	2/1/06	

* Samples re-extracted MG 2/15/06

✓ MG 2/15/06

Alpha Woods Hole Lab
Batch Prep Report

01/26/2006 0601070STBIO - OP NEWFIE

Lab ID	Notes
0601070-01	1st Prep
0601070-02	1st Prep
0601070-03	1st Prep
~~0601070-04~~	1st Prep
0601070-05	1st Prep
~~0601070-06~~	1st Prep
0601070-07	1st Prep
0601070-08	1st Prep
0601070-09	1st Prep
0601070-09	1st Prep
SS012606B19	1st Prep
SS012606LCS05	1st Prep
SS012606LCSD05	1st Prep

See re-ext 02/16/06

Alpha Woods Hole Lab
Batch Weight Report
01/26/2006

Lab ID	QC Type	0601070STBIO - Sample
0601070-01	SAM	5.96
0601070-02	SAM	5.19
0601070-03	SAM	10.67
~~0601070-04~~	SAM	5.29
0601070-05	SAM	5.75
~~0601070-06~~	SAM	5.89
0601070-07	SAM	10.8
0601070-08	SAM	10.52
0601070-09	D	10.16
0601070-09	SAM	10.22
SS012606B19	B	30
SS012606LCS05LCS	OP NEWFIE	30
SS012606LCS05LCS	OP SHC	30
SS012606LCSD05LCS	OP NEWFIE	30
SS012606LCSD05LCS	OP SHC	30

See re-ext
CV 2/16/06

METHYLENE CHLORIDE: B44E66(tank) B32E08(bottle)
HEXANE: B45E60(tank) B36E18(bottle)
ACETONE: B27E38
COPPER: A49597
SULFURIC ACID: 3104070
ALUMINA: 183
GLASS WOOL: +H1084303302$
PENTANE: B11E31
SODIUM SULFATE: B26593
SILICA(923): 0617MC

Alpha Woods Hole Lab
Batch Prep Spike Report

01/26/2006 0601070STBIO - OP NEWFIE Analyst: MAL Witness: DMP

Lab ID	QC Type	OP NEWFIE - surr	Vol OP NEWFIE - surr	Units OP NEWFIE - surr	OP NEWFIE - spk 1	Vol OP NEWFIE - spk 1	Units OP NEWFIE - spk 1	OP NEWFIE - spk 2	Vol OP NEWFIE - spk 2	Units OP NEWFIE - spk 2
0601070-01	SAM	WHAB99	200	µl				WHAC15	200	µl
0601070-02	SAM	WHAB99	200	µl				WHAC15	200	µl
0601070-03	SAM	WHAB99	200	µl				WHAC15	200	µl
~~0601070-04~~	SAM	WHAB99	200	µl				WHAC15	200	µl
0601070-05	SAM	WHAB99	200	µl				WHAC15	200	µl
~~0601070-06~~	SAM	WHAB99	200	µl				WHAC15	200	µl
0601070-07	SAM	WHAB99	200	µl				WHAC15	200	µl
0601070-08	SAM	WHAB99	200	µl				WHAC15	200	µl
0601070-09	D	WHAB99	200	µl				WHAC15	200	µl
0601070-09	SAM	WHAB99	200	µl				WHAC15	200	µl
SS012606B19	B	WHAB63	100	µl				WHAB14	200	µl
SS012606LCS05	LCS	WHAB63	100	µl	WHAC14	100	µl	WHAB14	200	µl
SS012606LCSD05	LCSD	WHAB63	100	µl	WHAC14	100	µl	WHAB14	200	µl

Test: PAH/SHC.
Standard Type: Surrogate / LCS / MS-MSD
LFB / Other High.
ID# WHAB99.
Conc. 100ug/ml 5mg/ml.

Test: BIOMARKERS.
Standard Type: Surrogate / LCS / MS-MSD
LFB / Other High.
ID# WHAC15.
Conc. 100ug/ml.

Test: PAH/SHC.
Standard Type: Surrogate / LCS / MS-MSD
LFB / Other _____.
ID# WHAB63.
Conc. 10ug/ml 500ug/ml.

Test: BIOMARKERS.
Standard Type: Surrogate / LCS / MS-MSD
LFB / Other Low.
ID# WHAB14.
Conc. 10ug/ml.

Test: PAH/SHC.
Standard Type: Surrogate / LCS / MS-MSD
LFB / Other _____.
ID# WHAC14.
Conc. 10ug/ml 500ug/ml.

Pre-Alumina Column Gravimetric Determination

Analyst: MAL
Date: 1/30/06

BATCH: 0601070

Entered by: MAL
Verified by: MAL

ETR #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	NA	0.259	NA	51.80	NA	NA	NA	104%
0601070	1		25000	50	NA	1.708	NA	854.00	250	8.54	100.00	
0601070	2		10000	50	NA	2.600	NA	520.00	160	8.32	62.50	
0601070	3		10000	50	NA	0.674	NA	134.80	600	8.09	16.67	
~~0601070~~	~~4~~		10000	50	NA	0.858	NA	171.60	500	8.58	20.00	
0601070	5		10000	50	NA	0.480	NA	96.00	900	8.64	11.11	
~~0601070~~	~~6~~		10000	50	NA	6.844	NA	1368.80	60	8.21	166.67	
0601070	7		10000	50	NA	0.638	NA	127.60	650	8.29	15.38	
0601070	8		10000	50	NA	0.605	NA	121.00	700	8.47	14.29	
0601070	9	D	10000	50	NA	0.234	NA	46.80	1800	8.42	5.56	17%
0601070	9		10000	50	NA	0.277	NA	55.40	1600	8.86	6.25	

All M-ex 15 CT 2/16/06

✓ MS 2/15/06

✓ 2nd CT 2/16/06

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Pre-Alumina Column Gravimetric Determination

Analyst: MAL
Date: 1/30/6

BATCH: 0601070

Entered by:
Verified by:

ETR #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	NA	0.259	NA		NA	NA	NA	0%
0601070	1		25000	50	NA	1.708	NA					
0601070	2		10000	50	NA	2.606	NA					
0601070	3		10000	50	NA	0.674	NA					
~~0601070~~	~~4~~		10000	50	NA	0.858	NA					
0601070	5		10000	50	NA	0.480	NA					
~~0601070~~	~~6~~		10000	50	NA	6.844	NA					
0601070	7		10000	50	NA	0.638	NA					
0601070	8		10000	50	NA	0.605	NA					
0601070	9	D	10000	50	NA	0.234	NA					#VALUE!
0601070	9		10000	50	NA	0.277	NA					

See re-exts 2/16/06

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Alpha Woods Hole Lab
Batch Clean Up Report

01/26/2006 0601070STBIO - OP NEWFIE

Lab ID	QC Type	Clean Up Method	Analyst	Clean Up Date	Flow Rate	Coll. Start	Coll. End	Concentration Analyst	Conc. Date	Solvent Ex.	Prefraction ation Volume	Fractionation Amount	Fractionation Factor	Transfer Volume
0601070-01	SAM	3610	DMP	1/31/06				DMP	1/31/06	False	25	0.25	0	0.15
0601070-02	SAM	3610	DMP	1/31/06				DMP	1/31/06	False	10	0.16	0	0.15
0601070-03	SAM	3610	DMP	1/31/06				DMP	1/31/06	False	10	0.6	0	0.15
~~0601070-04~~	SAM	3610	DMP	1/31/06				DMP	1/31/06	False	10	0.5	0	0.15
0601070-05	SAM	3610	DMP	1/31/06				DMP	1/31/06	False	10	0.9	0	0.15
~~0601070-06~~	SAM	3610	DMP	1/31/06				DMP	1/31/06	False	10	0.06	0	0.15
0601070-07	SAM	3610	DMP	1/31/06				DMP	1/31/06	False	10	0.65	0	0.15
0601070-08	SAM	3610	DMP	1/31/06				DMP	1/31/06	False	10	0.7	0	0.15
0601070-09	D	3610	DMP	1/31/06				DMP	1/31/06	False	10	1.8	0	0.15
0601070-09	SAM	3610	DMP	1/31/06				DMP	1/31/06	False	10	1.6	0	0.15
SS012606B19	B	3610	DMP	1/31/06				DMP	1/31/06	False	2	0.5	0	0.15
SS012606LCS05	LCS	3610	DMP	1/31/06				DMP	1/31/06	False	2	0.5	0	0.15
SS012606LCSD05	LCSD	3610	DMP	1/31/06				DMP	1/31/06	False	2	0.5	0	0.15

✓ 2nd ✓ 2nd 2/16/06

Re-ext 2/16/06

Alpha Woods Hole Lab
Batch Clean Up Report

01/26/2006 0601070STBIO - OP NEWFIE

Lab ID	Notes
0601070-01	
0601070-02	
0601070-03	
~~0601070-04~~	
0601070-05	
~~0601070-06~~	
0601070-07	
0601070-08	
0601070-09	
0601070-09	
SS012606B19	
SS012606LCS05	
SS012606LCSD05	

See results 02/16/06

Post-Alumina Column Gravimetric Determination

Analyst: KLA
Date: 2/1/06

BATCH: 0601070

Entered by: KLA
Verified by: KLA

ETR #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	N/A	0.250	N/A	50.00	N/A	N/A	N/A	100%
0601070	1		1000	50	N/A	0.390	N/A	7.80	600	4.68	1.67	
0601070	2		1000	50	N/A	0.352	N/A	7.04	700	4.93	1.43	
0601070	3		1000	50	N/A	0.264	N/A	5.28	950	5.02	1.05	
~~0601070~~	~~4~~		1000	50	N/A	0.315	N/A	6.30	800	5.04	1.25	
0601070	5		1000	50	N/A	0.360	N/A	7.20	700	5.04	1.43	
~~0601070~~	~~6~~		1000	50	N/A	0.289	N/A	5.78	850	4.91	1.18	
0601070	7		1000	50	N/A	0.276	N/A	5.52	850	4.69	1.18	
0601070	8		1000	50	N/A	0.291	N/A	5.82	850	4.95	1.18	
0601070	9	D	1000	50	N/A	0.186	N/A	3.72	950	3.53	1.05	23%
0601070	9		1000	50	N/A	0.234	N/A	4.68	950	4.45	1.05	

dll 2-2-06 KLA 2/16/06

KLA 2/15/06

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

✓ 2nd KLA 2/16/06

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Post-Alumina Column Gravimetric Determination

Analyst: KLA
Date: 2/1/06

BATCH: 0601070

Entered by: KLA
Verified by: ↓

ETR #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	N/A	0.250	N/A		N/A	N/A	N/A	0%
0601070	1		1000	50	N/A	0.390	N/A					
0601070	2		1000	50	N/A	0.352	N/A					
0601070	3		1000	50	N/A	0.264	N/A					
~~0601070~~	~~4~~		1000	50	N/A	0.315	N/A					
0601070	5		1000	50	N/A	0.360	N/A					
~~0601070~~	~~6~~		1000	50	N/A	0.289	N/A					
0601070	7		1000	50	N/A	0.276	N/A					
0601070	8		1000	50	N/A	0.291	N/A					
0601070	9	D	1000	50	N/A	0.186	N/A					#VALUE!
0601070	9		1000	50	N/A	0.234	N/A					

See re-exts cw 2/16/06

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Alpha Woods Hole Labs Internal Std Tracking Form

Project Name: NEWFIE GOWANUS CANAL
ETR: 0601070STBIO

ALK-PAH/SHC

Lab ID	Extract Vol (uL)	Standard ID and Vial #	Vol IS Added (uL)	Pre-Injection Vol (uL)[1]	Final Volume Equivalent	Spiked By	Aliquot 1 Removed (uL)	Aliquot 2 Removed (uL)	Date
0601070-01	900	WHAC12 2OF5	100	1000	166.67	KLA	150	150	2/1/06
0601070-02	900	WHAC12 2OF5	100	1000	89.29	KLA	150	150	2/1/06
0601070-03	900	WHAC12 2OF5	100	1000	17.54	KLA	150	150	2/1/06
~~0601070-04~~	900	WHAC12 2OF5	100	1000	25	KLA	150	150	2/1/06
0601070-05	900	WHAC12 2OF5	100	1000	15.87	KLA	150	150	2/1/06
~~0601070-06~~	900	WHAC12 2OF5	100	1000	196.08	KLA	150	150	2/1/06
0601070-07	900	WHAC12 2OF5	100	1000	18.1	KLA	150	150	2/1/06
0601070-08	900	WHAC12 2OF5	100	1000	16.81	KLA	150	150	2/1/06
0601070-09DUP	900	WHAC12 2OF5	100	1000	5.85	KLA	150	150	2/1/06
0601070-09	900	WHAC12 2OF5	100	1000	6.58	KLA	150	150	2/1/06
SS012606-B19	900	WHAC12 2OF5	100	1000	4	KLA	150	150	2/1/06
SS012606-LCS05	900	WHAC12 2OF5	100	1000	4	KLA	150	150	2/1/06
SS012606-LCSD05	900	WHAC12 2OF5	100	1000	4	KLA	150	150	2/1/06

see re-extracts

MG 2/15/06

MG 2/15/06

[1] Includes Internal Std

Forensic Preparation Checklist

ETR: 0601070 Client: Newfie Project: Gowanus Canal

Workplan Present	—

Workplan Reviewed With Project Manager	—

Test Requested	
ALK-PAH	✓
CHROMATOGRAM	
DENSITY	
HOMOLOG	
Pb	
SHC	✓
TPH	
WHOLE OIL	
BIOMARKER	✓
PHENOL	
OTHER	

Required Cleanups	
No Cleanup Required	
Copper	✓
Conc. Sulfuric Acid	
GPC	
Silica Gel 923 Grade Glass Column	✓
Alumina (Super I) Glass Column	✓
Alumina (F20) Glass Column	

Sample Observations			
Normal Weight/Volume Extracted		Lesser Amount Used - Sheen Present On Sample ②	✓
Lesser Amount Used - Low Sample Volume Provided		Lesser Amount Used - Suspected High Target Analytes	
Lesser Amount Used - Strong Hydrocarbon Odor ①	✓	Sediment At Bottom Of Water Sample Jar	
Project Specific Weight Used		No Observations	

Other: All samples reduced in weight & spiked high 1/26/6 MAL
① -03, -05, -08, -09
② -01, -02, -04, -06, -07

Extraction Notes	
Emulsions During Shake	
Samples Extracted Outside Of Hold Time	
No Observations	X

Other:

Identify Matrix - Circle One
Soil / Sediment / Water / Sheen / NAPL / Solid / Tissue / Product

	Date	Initials
1st Extraction	1-26-06	DMP
2nd Extraction	1-27-06	GTP
3rd Extraction	1-27-06	GTP

Concentration Notes			
Greater Final Volume - High Viscosity		Greater Final Volume - Inability To Concentrate Further	X
Precipitate Formed During Concentration		No Observations	

Other:

MAL BTO 2/1/06

Batch Completed
Analyst: KLA Alk./SHC
Date: 2/1/06

Forensic Dilution Sheet

Client Name: NewFields
Project: Gowanus Canal
ETR # : 0601070
Matrix : Sediment
Analysis Type : GC/MS

Relinquished By: KLA
Date: 2/1/06 2:18 PM

Received By: KLA
Date: 2/1/06

Sample ID	Init. Sample Vol (uL) *Measured*	Init. Sample Vol (uL) *Adjusted*	Aliquot removed from Initial (ul) Sample Volume	Final Volume for GC Analysis (ul)	Diluted Sample ID	Dilution Spiked With: STD ID/ul AMT	Date/ Initials	Dilution of Conc.	Total Dilution of Amount
0601070-01	700	700	100	1000	0601070-01-RE	WHAC12 90uL	KLA 2/1/06	10	10
0601070-02		700	100	1000	0601070-02-RE	WHAC12 90uL		10	10
0601070-03		700	100	1000	0601070-03-RE	WHAC12 90uL		10	10
0601070-04		700	100	1000	0601070-04-RE	WHAC12 90uL		10	10
0601070-05		700	100	1000	0601070-05-RE	WHAC12 90uL		10	10
0601070-06		700	100	1000	0601070-06-RE	WHAC12 90uL		10	10
0601070-07		700	100	1000	0601070-07-RE	WHAC12 90uL		10	10
0601070-08		700	100	1000	0601070-08-RE	WHAC12 90uL		10	10
0601070-09DUP		700	100	1000	0601070-09DUP-RE	WHAC12 90uL		10	10
0601070-09		700	100	1000	0601070-09-RE	WHAC12 90uL		10	10
0601070-01	600	600	10	1000	0601070-01-RE2	WHAC12 99uL	KLA 2/1/06	100	100
0601070-02		600	10	1000	0601070-02-RE2	WHAC12 99uL		100	100
0601070-03		600	10	1000	0601070-03-RE2	WHAC12 99uL		100	100
0601070-04		600	10	1000	0601070-04-RE2	WHAC12 99uL		100	100
0601070-05		600	10	1000	0601070-05-RE2	WHAC12 99uL		100	100
0601070-06		600	10	1000	0601070-06-RE2	WHAC12 99uL		100	100
0601070-07		600	10	1000	0601070-07-RE2	WHAC12 99uL		100	100
0601070-08		600	10	1000	0601070-08-RE2	WHAC12 99uL		100	100
0601070-09DUP		600	10	1000	0601070-09DUP-RE2	WHAC12 99uL		100	100
0601070-09		600	10	1000	0601070-09-RE2	WHAC12 99uL		100	100

Dilution Calculations Validated by: KLA CMT 2/6/06
Date: 2/1/06

Alpha Woods Hole Lab
Batch Prep Report
01/26/2006 0601070STBIO - OP Steranes/Triterpanes

Lab ID	QC Type	Prep Method	Analyst	Prep Start Date	Prep Completed	TCLP Date	Initial Amount	Final Volume	Solvent Ex	Conc. Analyst	Conc. Date	Conc. Method	Transfer Volume	Vialed By	Vialed Date	Cell Number
0601070-01	SAM	Shaker	MAL	1/26/06	1/31/06		5.96	17.54	True	RPR	1/30/06	KD Flask	0.15	MAL	1/31/06	
0601070-02	SAM	Shaker	MAL	1/26/06	1/31/06		5.19	10.53	True	RPR	1/30/06	KD Flask	0.15	MAL	1/31/06	
0601070-03	SAM	Shaker	MAL	1/26/06	1/31/06		10.67	4.76	True	RPR	1/30/06	KD Flask	0.15	MAL	1/31/06	
~~0601070-04~~	~~SAM~~	~~Shaker~~	~~MAL~~	~~1/26/06~~	~~1/31/06~~		~~5.29~~	~~3.51~~	~~True~~	~~RPR~~	~~1/30/06~~	~~KD Flask~~	~~0.15~~	~~MAL~~	~~1/31/06~~	
* 0601070-05	SAM	Shaker	MAL	1/26/06	1/31/06		5.75	2.11	True	RPR	1/30/06	KD Flask	0.15	MAL	1/31/06	
~~0601070-06~~	~~SAM~~	~~Shaker~~	~~MAL~~	~~1/26/06~~	~~1/31/06~~		~~5.89~~	~~29.24~~	~~True~~	~~RPR~~	~~1/30/06~~	~~KD Flask~~	~~0.15~~	~~MAL~~	~~1/31/06~~	
0601070-07	SAM	Shaker	MAL	1/26/06	1/31/06		10.8	6.25	True	RPR	1/30/06	KD Flask	0.15	MAL	1/31/06	
0601070-08	SAM	Shaker	MAL	1/26/06	1/31/06		10.52	6.25	True	RPR	1/30/06	KD Flask	0.15	MAL	1/31/06	
0601070-09	D	Shaker	MAL	1/26/06	1/31/06		10.16	2.11	True	RPR	1/30/06	KD Flask	0.15	MAL	1/31/06	
0601070-09	SAM	Shaker	MAL	1/26/06	1/31/06		10.22	2.11	True	RPR	1/30/06	KD Flask	0.15	MAL	1/31/06	
SS012606B19	B	Shaker	MAL	1/26/06	1/31/06		30	4	True	RPR	1/30/06	KD Flask	0.15	MAL	1/31/06	

* samples re-extracted CMS 2/15/06

✓ 2nd VT 2/16/06

Alpha Woods Hole Lab
Batch Prep Report

01/26/2006 0601070STBIO - OP Steranes/Triterpanes

Lab ID	Notes
0601070-01	1st Prep
0601070-02	1st Prep
0601070-03	1st Prep
~~0601070-04~~	1st Prep
0601070-05	1st Prep
~~0601070-06~~	1st Prep
0601070-07	1st Prep
0601070-08	1st Prep
0601070-09	1st Prep
0601070-09	1st Prep
SS012606B19	1st Prep

Pre-Silica Gel Gravimetric Determination

Analyst: MAL
Date: 1/30/06

BATCH: 0601070

Entered by: MAL
Verified by: MAL

ETR #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	NA	0.259	NA	51.80	NA	NA	NA	104%
0601070	1		25000	50	NA	1.708	NA	854.00	1500	51.24	16.67	
0601070	2		10000	50	NA	2.600	NA	520.00	1000	52.00	10.00	
0601070	3		10000	50	NA	0.674	NA	134.80	3500	47.18	2.86	
~~0601070~~	~~4~~		10000	50	NA	0.858	NA	171.60	3000	51.48	3.33	
0601070	5		10000	50	NA	0.480	NA	96.00	5000	48.00	2.00	
~~0601070~~	~~6~~		10000	50	NA	6.844	NA	1368.80	360	49.28	27.78	
0601070	7		10000	50	NA	0.638	NA	127.60	4000	51.04	2.50	
0601070	8		10000	50	NA	0.605	NA	121.00	4000	48.40	2.50	
0601070	9	D	10000	50	NA	0.234	NA	46.80	5000	23.40	2.00	17%
0601070	9		10000	50	NA	0.277	NA	55.40	5000	27.70	2.00	

All re-exts CW 2/16/06

✓ 2nd CW 2/16/06

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
*Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)*
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Alpha Woods Hole Laboratories Raynham, MA

0601070.xls

Alpha Woods Hole Lab
Batch Clean Up Report
01/26/2006 0601070STBIO - OP Steranes/Triterpanes

Lab ID	QC Type	Clean Up Method	Analyst	Clean Up Date	Flow Rate	Coll. Start	Coll. End	Concentration Analyst	Conc. Date	Solvent Ex.	Prefraction Volume	Fractionation Amount	Fractionation Factor	Transfer Volume
0601070-01	SAM	3630	GJP	1/31/06				MAL	1/31/06	False	25	1.5	0	0.15
0601070-02	SAM	3630	GJP	1/31/06				MAL	1/31/06	False	10	1	0	0.15
0601070-03	SAM	3630	GJP	1/31/06				MAL	1/31/06	False	10	3.5	0	0.15
~~0601070-04~~	SAM	3630	GJP	1/31/06				MAL	1/31/06	False	10	3	0	0.15
0601070-05	SAM	3630	GJP	1/31/06				MAL	1/31/06	False	10	5	0	0.15
~~0601070-06~~	SAM	3630	GJP	1/31/06				MAL	1/31/06	False	10	0.36	0	0.15
0601070-07	SAM	3630	GJP	1/31/06				MAL	1/31/06	False	10	4	0	0.15
0601070-08	SAM	3630	GJP	1/31/06				MAL	1/31/06	False	10	4	0	0.15
0601070-09	D	3630	GJP	1/31/06				MAL	1/31/06	False	10	5	0	0.15
0601070-09	SAM	3630	GJP	1/31/06				MAL	1/31/06	False	10	5	0	0.15
SS012606B19	B	3630	GJP	1/31/06				MAL	1/31/06	False	2	0.5	0	0.15

✓ 2nd cr 2/16/06

Alpha Woods Hole Lab
Batch Clean Up Report

01/26/2006 0601070STBIO - OP Steranes/Triterpanes

Lab ID	Notes
0601070-01	Eluted with 20 ml of pentane
0601070-02	
0601070-03	
~~0601070-04~~	
0601070-05	
~~0601070-06~~	
0601070-07	
0601070-08	
0601070-09	
0601070-09	
SS012606B19	

All re-exts 2/16/06

Post-Silica Gel Gravimetric Determination

Analyst: MAL
Date: 1/31/06

BATCH: 0601070

Entered by: MAL
Verified by: MAL

ETR #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Analysis (ul)	Oil to Analysis (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	NA	0.255	NA	51.00	NA	NA	NA	102%
0601070	1		1000	50	NA	0.174	NA	3.48	950	3.31	1.05	
0601070	2		1000	50	NA	0.174	NA	3.48	950	3.31	1.05	
0601070	3		1000	50	NA	0.406	NA	8.12	600	4.87	1.67	
~~0601070~~	~~4~~		1000	50	NA	0.121	NA	2.42	950	2.30	1.05	
0601070	5		1000	50	NA	0.132	NA	2.64	950	2.51	1.05	
~~0601070~~	~~6~~		1000	50	NA	0.149	NA	2.98	950	2.83	1.05	
0601070	7		1000	50	NA	0.602	NA	12.04	400	4.82	2.50	
0601070	8		1000	50	NA	0.578	NA	11.56	400	4.62	2.50	
0601070	9	D	1000	50	NA	0.150	NA	3.00	950	2.85	1.05	20%
0601070	9		1000	50	NA	0.184	NA	3.68	950	3.50	1.05	

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Post-Silica Gel Gravimetric Determination

Analyst: MAL
Date: 1/31/06

BATCH: 0601070

Entered by:
Verified by:

ETR #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	NA	0.255	NA		NA	NA	NA	0%
0601070	1		1000	50	NA	0.174	NA					
0601070	2		1000	50	NA	0.174	NA					
0601070	3		1000	50	NA	0.406	NA					
~~0601070~~	~~4~~		1000	50	NA	0.121	NA					
0601070	5		1000	50	NA	0.132	NA					
~~0601070~~	~~6~~		1000	50	NA	0.149	NA					
0601070	7		1000	50	NA	0.602	NA					
0601070	8		1000	50	NA	0.578	NA					
0601070	9	D	1000	50	NA	0.150	NA					#VALUE!
0601070	9		1000	50	NA	0.184	NA					

See re-ext 1/31/06

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Alpha Woods Hole Labs Internal Std Tracking Form

Project Name: NEWFIE GOWANUS CANAL
ETR: 0601070STBIO

Biomarker

Lab ID	Extract Vol (uL)	Standard ID and Vial #	Vol IS Added (uL)	Pre-injection Vol (uL)[1]	Final Volume Equivalent	Spiked By	Aliquot 1 Removed (uL)	Aliquot 2 Removed (uL)	Date
0601070-01F1	900	WHAC12 2 OF 5	100	1000	17.54	MAL	150	NA	1/31/06
0601070-02F1	900	WHAC12 2 OF 5	100	1000	10.53	MAL	150	NA	1/31/06
0601070-03F1	900	WHAC12 2 OF 5	100	1000	4.76	MAL	150	NA	1/31/06
~~0601070-04F1~~	900	WHAC12 2 OF 5	100	1000	3.51	MAL	150	NA	1/31/06
0601070-05F1	900	WHAC12 2 OF 5	100	1000	2.11	MAL	150	NA	1/31/06
~~0601070-06F1~~	900	WHAC12 2 OF 5	100	1000	29.24	MAL	150	NA	1/31/06
0601070-07F1	900	WHAC12 2 OF 5	100	1000	6.25	MAL	150	NA	1/31/06
0601070-08F1	900	WHAC12 2 OF 5	100	1000	6.25	MAL	150	NA	1/31/06
0601070-09DF1	900	WHAC12 2 OF 5	100	1000	2.11	MAL	150	NA	1/31/06
0601070-09F1	900	WHAC12 2 OF 5	100	1000	2.11	MAL	150	NA	1/31/06
SS012606B19	900	WHAC12 2 OF 5	100	1000	4	MAL	150	NA	1/31/06

See reextracts MG 2/15/06

[1] Includes Internal Std

Forensic Preparation Checklist

ETR: 0601070 Client: Newfie Project: Gowanus Canal

Workplan Present	—

Workplan Reviewed With Project Manager	—

Test Requested	
ALK-PAH	✓
CHROMATOGRAM	
DENSITY	
HOMOLOG	
Pb	
SHC	✓
TPH	
WHOLE OIL	
BIOMARKER	✓
PHENOL	
OTHER	

Required Cleanups	
No Cleanup Required	
Copper	✓
Conc. Sulfuric Acid	
GPC	
Silica Gel 923 Grade Glass Column	✓
Alumina (Super I) Glass Column	✓
Alumina (F20) Glass Column	

Sample Observations			
Normal Weight/Volume Extracted		Lesser Amount Used - Sheen Present On Sample ②	✓
Lesser Amount Used - Low Sample Volume Provided		Lesser Amount Used - Suspected High Target Analytes	
Lesser Amount Used - Strong Hydrocarbon Odor ①	✓	Sediment At Bottom Of Water Sample Jar	
Project Specific Weight Used		No Observations	

Other: All samples reduced in weight & spiked high 1/26/06 MAL

① -03, -05, -08, -09

② -01, -02, -04, -06, -07

Extraction Notes	
Emulsions During Shake	
Samples Extracted Outside Of Hold Time	
No Observations	X

Other:

Identify Matrix - Circle One
Soil / Sediment / Water / Sheen / NAPL / Solid / Tissue / Product

	Date	Initials
1st Extraction	1-26-06	DMP
2nd Extraction	1-27-06	GJP
3rd Extraction	1-27-06	GJP

Concentration Notes			
Greater Final Volume - High Viscosity		Greater Final Volume - Inability To Concentrate Further	X
Precipitate Formed During Concentration		No Observations	

Other:

MAL BIO 2/1/06

Batch Completed

Analyst: KLA Alk./SHC

Date: 2/1/06

Alpha Woods Hole Lab
Batch Prep Report
02/01/2006 0602004STBIO - OP NEWFIE

Lab ID	QC Type	Prep Method	Analyst	Prep Start Date	Prep Completed	TCLP Date	Initial Amount	Final Volume	Solvent Ex	Conc. Analyst	Conc. Date	Conc. Method	Transfer Volume	Vialed By	Vialed Date	Cell Number
0601070-04	SAM	Shaker	GJP	2/6/2006	2/9/2006		5.08	116.67	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0601070-06	SAM	Shaker	GJP	2/6/2006	2/9/2006		5.21	84	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-01	SAM	Shaker	DMP	2/1/2006	2/9/2006		10.17	23.33	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-02	SAM	Shaker	DMP	2/1/2006	2/9/2006		5.03	35	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-03	SAM	Shaker	DMP	2/1/2006	2/9/2006		5.04	84	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-04	D	Shaker	GJP	2/6/2006	2/9/2006		4.93	175	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-04	SAM	Shaker	GJP	2/6/2006	2/9/2006		5.25	150	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-05	SAM	Shaker	DMP	2/1/2006	2/9/2006		4.98	13.13	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-06	SAM	Shaker	GJP	2/6/2006	2/9/2006		5.11	131.25	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-07	SAM	Shaker	DMP	2/1/2006	2/9/2006		5.24	105	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-08	SAM	Shaker	DMP	2/1/2006	2/9/2006		5.41	35	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-09	D	Shaker	DMP	2/1/2006	2/9/2006		10.17	26.25	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-09	SAM	Shaker	DMP	2/1/2006	2/9/2006		10.14	35	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-10	SAM	Shaker	DMP	2/1/2006	2/9/2006		5.13	23.33	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-11	SAM	Shaker	DMP	2/1/2006	2/9/2006		10.57	23.33	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-12	SAM	Shaker	DMP	2/1/2006	2/9/2006		4.95	35	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-13	SAM	Shaker	DMP	2/1/2006	2/9/2006		5.02	21	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
0602004-14	SAM	Shaker	DMP	2/1/2006	2/9/2006		4.97	42	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
SS020106B11	B	Shaker	DMP	2/1/2006	2/9/2006		30	4	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
SS020106B11	B	Shaker	DMP	2/1/2006	2/9/2006		30	4	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
SS020106LCS04	LCS	Shaker	DMP	2/1/2006	2/9/2006		30	4	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
SS020106LCS04	LCS	Shaker	DMP	2/1/2006	2/9/2006		30	4	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
SS020106LCSD04	LCSD	Shaker	DMP	2/1/2006	2/9/2006		30	4	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
SS020106LCSD04	LCSD	Shaker	DMP	2/1/2006	2/9/2006		30	4	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
SS020606B06	B	Shaker	GJP	2/6/2006	2/9/2006		30	4	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
SS020606B06	B	Shaker	GJP	2/6/2006	2/9/2006		30	4	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
SS020606LCS04	LCS	Shaker	GJP	2/6/2006	2/9/2006		30	4	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
SS020606LCS04	LCS	Shaker	GJP	2/6/2006	2/9/2006		30	4	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
SS020606LCSD05	LCSD	Shaker	GJP	2/6/2006	2/9/2006		30	4	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	
SS020606LCSD05	LCSD	Shaker	GJP	2/6/2006	2/9/2006		30	4	False	KLA	2/7/2006	KD Flask	0.15	DMP	2/8/2006	

✓ ✓
2nd
W
2/16/06

Alpha Woods Hole Lab
Batch Prep Report

02/01/2006 0602004STBIO - OP NEWFIE

Lab ID	Notes
0601070-04	2nd Prep (Re-prep)
0601070-06	2nd Prep (Re-prep)
0602004-01	1st Prep
0602004-02	1st Prep
0602004-03	1st Prep
0602004-04	1st Prep
0602004-04	1st Prep
0602004-05	1st Prep
0602004-06	1st Prep
0602004-07	1st Prep
0602004-08	1st Prep
0602004-09	1st Prep
0602004-09	1st Prep
0602004-10	1st Prep
0602004-11	1st Prep
0602004-12	1st Prep
0602004-13	1st Prep
0602004-14	1st Prep
SS020106B11	1st Prep
SS020106B11	1st Prep
SS020106LCS04	1st Prep
SS020106LCS04	1st Prep
SS020106LCSD04	1st Prep
SS020106LCSD04	1st Prep
SS020606B06	1st Prep
SS020606B06	1st Prep
SS020606LCS04	1st Prep
SS020606LCS04	1st Prep
SS020606LCSD05	1st Prep
SS020606LCSD05	1st Prep

Alpha Woods Hole Lab
Batch Weight Report
02/01/2006

Lab ID	QC Type	0602004STBIO - Sample
0601070-04 (1)	SAM	5.08
0601070-06 (1)	SAM	5.21
0602004-01	SAM	10.17
0602004-02	SAM	5.03
0602004-03	SAM	5.04
0602004-04 (1)	D	4.93
0602004-04 (1)	SAM	5.25
0602004-05	SAM	4.98
0602004-06 (1)	SAM	5.11
0602004-07	SAM	5.24
0602004-08	SAM	5.41
0602004-09	D	10.17
0602004-09	SAM	10.14
0602004-10	SAM	5.13
0602004-11	SAM	10.57
0602004-12	SAM	4.95
0602004-13	SAM	5.02
0602004-14	SAM	4.97
SS020106B11	B	30
SS020106B11	B	30
SS020106LCS04LCS	Gravimetric Determination	30
SS020106LCS04LCS	OP NEWFIE	30
SS020106LCS04LCS	OP NEWFIE	30
SS020106LCS04LCS	OP SHC	30
SS020106LCS04LCS	OP SHC	30
SS020106LCS04LCS	OP Steranes/Triterpanes	30
SS020106LCS04LCS	OP Steranes/Triterpanes	30
SS020106LCSD04LCSD	Gravimetric Determination	30
SS020106LCSD04LCSD	OP NEWFIE	30
SS020106LCSD04LCSD	OP NEWFIE	30
SS020106LCSD04LCSD	OP SHC	30
SS020106LCSD04LCSD	OP SHC	30
SS020106LCSD04LCSD	OP Steranes/Triterpanes	30
SS020106LCSD04LCSD	OP Steranes/Triterpanes	30
(1) SS020606B06	B	30
SS020606B06	B	30
(1) SS020606LCS04LCS	OP NEWFIE	30
SS020606LCS04LCS	OP NEWFIE	30
SS020606LCS04LCS	OP SHC	30
SS020606LCS04LCS	OP SHC	30
SS020606LCS04LCS	OP Steranes/Triterpanes	30
SS020606LCS04LCS	OP Steranes/Triterpanes	30
(1) SS020606LCSD05LCSD	OP NEWFIE	30
SS020606LCSD05LCSD	OP NEWFIE	30

METHYLENE CHLORIDE B52E28 (tank) B07E30(bottle)
ACETONE: A05E31 HEXANE: B45E60
COPPER: B42625 SULFURIC ACID: 3103091
GLASS WOOL: 4303309989 SODIUM SULFATE: B42602
PENTANE: B11E31 HYDROCHLORIC ACID: 4105030

(1) Samples re-weighed on 2/6/06. Extracts were accidentally combined into wrong Erlenmeyer. 2/6/06 RPR

Alpha Woods Hole Lab
Batch Weight Report
02/01/2006

Lab ID	QC Type	0602004STBIO - Sample
SS020606LCSD05LCSD	SHC	30
SS020606LCSD05LCSD	SHC	30
SS020606LCSD05LCSD	Steranes/Triterpanes	30
SS020606LCSD05LCSD	Steranes/Triterpanes	30

Alpha Woods Hole Lab
Batch Prep Spike Report

02/01/2006 0602004STBIO - OP NEWFIE

Analyst: GJP Witness: RPR

Lab ID	QC Type	OP NEWFIE - surr	Vol OP NEWFIE - surr	Units OP NEWFIE - surr	OP NEWFIE - spk 1	Vol OP NEWFIE - spk 1	Units OP NEWFIE - spk 1	OP NEWFIE - spk 2	Vol OP NEWFIE - spk 2	Units OP NEWFIE - spk 2
0601070-04 (1)	SAM	WHAC11	200	µl	WHAC40	200	µl			
0601070-06 (1)	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-01	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-02	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-03	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-04 (1)	D	WHAC11	200	µl	WHAC40	200	µl			
0602004-04 (1)	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-05	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-06 (1)	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-07	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-08	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-09	D	WHAC11	200	µl	WHAC40	200	µl			
0602004-09	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-10	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-11	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-12	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-13	SAM	WHAC11	200	µl	WHAC40	200	µl			
0602004-14	SAM	WHAC11	200	µl	WHAC40	200	µl			
SS020106B11	B	WHAB63	100	µl	WHAB14	200	µl			
SS020106B11	B	WHAB63	100	µl	WHAB14	200	µl			
SS020106LCS04	LCS	WHAB63	100	µl	WHAB14	200	µl	WHAC14	100	µl
SS020106LCS04	LCS	WHAB63	100	µl	WHAB14	200	µl	WHAC14	100	µl
SS020106LCSD04	LCSD	WHAB63	100	µl	WHAB14	200	µl	WHAC14	100	µl
SS020106LCSD04	LCSD	WHAB63	100	µl	WHAB14	200	µl	WHAC14	100	µl
(1) SS020606B06	B	WHAB63	100	µl	WHAB14	200	µl			
SS020606B06	B	WHAB63	100	µl	WHAB14	200	µl			
(1) SS020606LCS04	LCS	WHAB63	100	µl	WHAB14	200	µl	WHAC14	100	µl
SS020606LCS04	LCS	WHAB63	100	µl	WHAB14	200	µl	WHAC14	100	µl
(1) SS020606LCSD05	LCSD	WHAB63	100	µl	WHAB14	200	µl	WHAC14	100	µl
SS020606LCSD05	LCSD	WHAB63	100	µl	WHAB14	200	µl	WHAC14	100	µl

Test: PAH/SHC
Standard Type: Surrogate / LCS / MS-MSD
LFB / Other
ID# WHAC14
Conc. 10ug/ml 500ug/ml

(1) Samples spiked on 2/6/06 by GJP witnessed by RPR. All other samples were spiked on 2/2/06 By DMP witnessed by MAL. 2/6/06 RPR

Test: PAH/SHC
Standard Type: Surrogate / LCS / MS-MSD
LFB / Other
ID# WHAB63
Conc. 10ug/ml 500ug/ml

Test: ALK-PAH/SHC (High)
Standard Type: *Surrogate* / *LCS* / *MS-MSD*
LFB / *Other*
ID# WHAC11
Conc. 100ug/ml / 5000ug/ml

Test: BIOMARKERS
Standard Type: Surrogate / LCS / MS-MSD
LFB / Other Low
ID# WHAB14
Conc. 10ug/ml

Test: BIOMARKERS
Standard Type: Surrogate / LCS / MS-MSD
LFB / Other High
ID# WHAC40
Conc. 100ug/ml

Pre-Alumina Column Gravimetric Determination

Analyst: KLA
Date: 2/7/06

BATCH: 0602004STBIO

Entered by: KLA
Verified by: KLA

Batch #	Sample #	QC (M, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC (%, RPD)
		LCS	10000	50	NA	0.248	NA	NA	NA	NA	NA	99%
0601070	4		10000	50	NA	2.705	NA	541.00	90	4.87	111.11	
0601070	6		10000	50	NA	2.001	NA	400.20	125	5.00	80.00	
0602004	1		10000	50	NA	0.518	NA	103.60	450	4.66	22.22	
0602004	2		10000	50	NA	0.813	NA	162.60	300	4.88	33.33	
0602004	3		10000	50	NA	1.888	NA	377.60	125	4.72	80.00	
0602004	4	D	10000	50	NA	3.781	NA	756.20	60	4.54	166.67	15%
0602004	4		10000	50	NA	3.267	NA	653.40	70	4.57	142.86	
0602004	5		10000	50	NA	0.298	NA	59.60	800	4.77	12.50	
0602004	6		10000	50	NA	2.973	NA	594.60	80	4.76	125.00	
0602004	7		10000	50	NA	2.482	NA	496.40	100	4.96	100.00	
0602004	8		10000	50	NA	0.824	NA	164.80	300	4.94	33.33	
0602004	9	D	10000	50	NA	0.589	NA	117.80	400	4.71	25.00	22%
0602004	9		10000	50	NA	0.738	NA	147.60	300	4.43	33.33	
0602004	10		10000	50	NA	0.543	NA	108.60	450	4.89	22.22	
0602004	11		10000	50	NA	0.504	NA	100.80	450	4.54	22.22	
0602004	12		10000	50	NA	0.786	NA	157.20	300	4.72	33.33	
0602004	13		10000	50	NA	0.481	NA	96.20	500	4.81	20.00	
0602004	14		10000	50	NA	0.850	NA	170.00	250	4.25	40.00	

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight

✓ 2nd 2/16/06

✓ 2nd 2/16/06

Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)

LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor

Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT

Duplicates should agree within +/- 10%.

Pre-Alumina Column Gravimetric Determination

Analyst: KLA
Date: 2/7/06

BATCH: 0602004STBIO

Entered by: KLA
Verified by:

Batch #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	NA	0.248	NA	NA	NA	NA	NA	0%
0601070	4		10000	50		2.705						
0601070	6		10000	50		2.007						
0602004	1		10000	50		0.518						
0602004	2		10000	50		0.813						
0602004	3		10000	50		1.888						
0602004	4	D	10000	50		3.784						#VALUE!
0602004	4		10000	50		3.267						
0602004	5		10000	50		0.298						
0602004	6		10000	50		2.973						
0602004	7		10000	50		2.482						
0602004	8		10000	50		0.824						
0602004	9	D	10000	50		0.589						#VALUE!
0602004	9		10000	50		0.738						
0602004	10		10000	50		0.543						
0602004	11		10000	50		0.504						
0602004	12		10000	50		0.786						
0602004	13		10000	50		0.481						
0602004	14		10000	50		0.850						

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Alpha Woods Hole Lab
Batch Clean Up Report
02/01/2006 0602004STBIO - OP NEWFIE

Lab ID	QC Type	Clean Up Method	Analyst	Clean Up Date	Flow Rate	Coll. Start	Coll. End	Concentration Analyst	Conc. Date	Solvent Ex.	Prefractionation Volume	Fractionation Amount	Fractionation Factor	Transfer Volume
0601070-04	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.09	0	0.15
0601070-06	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.125	0	0.15
0602004-01	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.45	0	0.15
0602004-02	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.3	0	0.15
0602004-03	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.125	0	0.15
0602004-04	D	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.06	0	0.15
0602004-04	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.07	0	0.15
0602004-05	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.8	0	0.15
0602004-06	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.08	0	0.15
0602004-07	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.1	0	0.15
0602004-08	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.3	0	0.15
0602004-09	D	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.4	0	0.15
0602004-09	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.3	0	0.15
0602004-10	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.45	0	0.15
0602004-11	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.45	0	0.15
0602004-12	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.3	0	0.15
0602004-13	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.5	0	0.15
0602004-14	SAM	3610	DMP	2/7/2006				DMP	2/7/2006	False	10	0.25	0	0.15
SS020106B11	B	3610	DMP	2/7/2006				DMP	2/7/2006	False	2	0.5	0	0.15
SS020106B11	B	3610	DMP	2/7/2006				DMP	2/7/2006	False	2	0.5	0	0.15
SS020106LCS04	LCS	3610	DMP	2/7/2006				DMP	2/7/2006	False	2	0.5	0	0.15
SS020106LCS04	LCS	3610	DMP	2/7/2006				DMP	2/7/2006	False	2	0.5	0	0.15
SS020106LCSD04	LCSD	3610	DMP	2/7/2006				DMP	2/7/2006	False	2	0.5	0	0.15
SS020106LCSD04	LCSD	3610	DMP	2/7/2006				DMP	2/7/2006	False	2	0.5	0	0.15
SS020606B06	B	3610	DMP	2/7/2006				DMP	2/7/2006	False	2	0.5	0	0.15
SS020606B06	B	3610	DMP	2/7/2006				DMP	2/7/2006	False	2	0.5	0	0.15
SS020606LCS04	LCS	3610	DMP	2/7/2006				DMP 2/13/06	~~2/7/2006~~	False	2	0.5	0	0.15
SS020606LCS04	LCS	3610	DMP	2/7/2006				DMP *	~~2/7/2006~~	False	2	0.5	0	0.15
SS020606LCSD05	LCSD	3610	DMP	2/7/2006				DMP	2/7/2006	False	2	0.5	0	0.15
SS020606LCSD05	LCSD	3610	DMP	2/7/2006				DMP	2/7/2006	False	2	0.5	0	0.15

* LCS re-alumina cleaned on 2/13/06
cw 2/16/06

✓ 2nd
cw 2/16/06

Alpha Woods Hole Lab
Batch Clean Up Report

02/01/2006 0602004STBIO - OP NEWFIE

Lab ID	Notes
0601070-04	
0601070-06	
0602004-01	
0602004-02	
0602004-03	
0602004-04	
0602004-04	
0602004-05	
0602004-06	
0602004-07	
0602004-08	
0602004-09	
0602004-09	
0602004-10	
0602004-11	
0602004-12	
0602004-13	
0602004-14	
SS020106B11	
SS020106B11	
SS020106LCS04	
SS020106LCS04	
SS020106LCSD04	
SS020106LCSD04	
SS020606B06	
SS020606B06	
SS020606LCS04	
SS020606LCS04	
SS020606LCSD05	
SS020606LCSD05	

Post-Alumina Column Gravimetric Determination

Analyst: DMP
Date: 2/8/06

BATCH: 0602004

Entered by: DMP
Verified by: DMP

Batch #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Analysis (ul)	Oil to Analysis (mg)	Dilution Factor	QC (%R, RPD)
		LCS	1000	50	NA	0.249	NA	NA	NA	NA	NA	100%
0601070	4		1000	50	NA	0.199	NA	3.98	950	3.79	1.05	
0601070	6		1000	50	NA	0.160	NA	3.20	950	3.05	1.05	
0602004	1		1000	50	NA	0.137	NA	2.74	950	2.61	1.05	
0602004	2		1000	50	NA	0.201	NA	4.02	950	3.83	1.05	
0602004	3		1000	50	NA	0.185	NA	3.70	950	3.52	1.05	
0602004	4	D	1000	50	NA	0.199	NA	3.98	950	3.79	1.05	2%
0602004	4		1000	50	NA	0.203	NA	4.06	950	3.87	1.05	
0602004	5		1000	50	NA	0.224	NA	4.48	950	4.27	1.05	
0602004	6		1000	50	NA	0.190	NA	3.80	950	3.62	1.05	
0602004	7		1000	50	NA	0.198	NA	3.96	950	3.77	1.05	
0602004	8		1000	50	NA	0.191	NA	3.82	950	3.64	1.05	
0602004	9	D	1000	50	NA	0.153	NA	3.06	950	2.91	1.05	3%
0602004	9		1000	50	NA	0.158	NA	3.16	950	3.01	1.05	
0602004	10		1000	50	NA	0.188	NA	3.76	950	3.58	1.05	
0602004	11		1000	50	NA	0.137	NA	2.74	950	2.61	1.05	
0602004	12		1000	50	NA	0.197	NA	3.94	950	3.75	1.05	
0602004	13		1000	50	NA	0.181	NA	3.62	950	3.45	1.05	
0602004	14		1000	50	NA	0.176	NA	3.52	950	3.35	1.05	

✓ 2nd w 2/16/06

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Alpha Woods Hole Laboratories Raynham, MA

0602004

Post-Alumina Column Gravimetric Determination

Analyst: KLA
Date: 2/8/06

BATCH: 0602004

Entered by: KLA
Verified by:

Batch #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Analysis (ul)	Oil to Analysis (mg)	Dilution Factor	QC (%R, RPD)
		LCS	1000	50	NA	0.249	NA	NA	NA	NA	NA	0%
0601070	4		1000	50		0.199						
0601070	6		1000	50		0.160						
0602004	1		1000	50		0.137						
0602004	2		1000	50		0.201						
0602004	3		1000	50		0.185						
0602004	4	D	1000	50		0.199						#VALUE!
0602004	4		1000	50		0.203						
0602004	5		1000	50		0.224						
0602004	6		1000	50		0.190						
0602004	7		1000	50		0.198						
0602004	8		1000	50		0.191						
0602004	9	D	1000	50		0.153						#VALUE!
0602004	9		1000	50		0.158						
0602004	10		1000	50		0.158						
0602004	11		1000	50		0.137						
0602004	12		1000	50		0.197						
0602004	13		1000	50		0.181						
0602004	14		1000	50		0.176						

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Alpha Woods Hole Labs Internal Std Tracking Form

Project Name: Gowanus Canal
ETR: 0602004STBIO

ALK-PAH/SHC

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0601070-04	900	WHAC12 3of5	100	1000	116.67	DMP	150	150	2/8/2006
0601070-06	900	WHAC12 3of5	100	1000	84.00	DMP	150	150	2/8/2006
0602004-01	900	WHAC12 3of5	100	1000	23.33	DMP	150	150	2/8/2006
0602004-02	900	WHAC12 3of5	100	1000	35.00	DMP	150	150	2/8/2006
0602004-03	900	WHAC12 3of5	100	1000	84.00	DMP	150	150	2/8/2006
0602004-04D	900	WHAC12 3of5	100	1000	175.00	DMP	150	150	2/8/2006
0602004-04	900	WHAC12 3of5	100	1000	150.00	DMP	150	150	2/8/2006
0602004-05	900	WHAC12 3of5	100	1000	13.13	DMP	150	150	2/8/2006
0602004-06	900	WHAC12 3of5	100	1000	131.25	DMP	150	150	2/8/2006
0602004-07	900	WHAC12 3of5	100	1000	105.00	DMP	150	150	2/8/2006
0602004-08	900	WHAC12 3of5	100	1000	35.00	DMP	150	150	2/8/2006
0602004-09D	900	WHAC12 3of5	100	1000	26.25	DMP	150	150	2/8/2006
0602004-09	900	WHAC12 3of5	100	1000	35.00	DMP	150	150	2/8/2006
0602004-10	900	WHAC12 3of5	100	1000	23.33	DMP	150	150	2/8/2006
0602004-11	900	WHAC12 3of5	100	1000	23.33	DMP	150	150	2/8/2006
0602004-12	900	WHAC12 3of5	100	1000	35.00	DMP	150	150	2/8/2006
0602004-13	900	WHAC12 3of5	100	1000	21.00	DMP	150	150	2/8/2006
0602004-14	900	WHAC12 3of5	100	1000	42.00	DMP	150	150	2/8/2006
SS020106B11	900	WHAC12 3of5	100	1000	4.00	DMP	150	150	2/8/2006
SS020106LCS04	900	WHAC12 3of5	100	1000	4.00	DMP	150	150	2/8/2006
SS020106LCSD04	900	WHAC12 3of5	100	1000	4.00	DMP	150	150	2/8/2006
SS020606B06	900	WHAC12 3of5	100	1000	4.00	DMP	150	150	2/8/2006
SS020606LCS04	900	WHAC12 3of5	100	1000	4.00	DMP	150	150	2/8/2006
SS020606LCSD05	900	WHAC12 3of5	100	1000	4.00	DMP	150	150	2/8/2006

[1] Includes Internal Std

✓ 2nd
2/16/06

Forensic Dilution Sheet

Client Name:	NewFields
Project	Gowanus Canal
ETR # :	0601070
Matrix :	Sediment
Analysis Type :	GC/MS

Relinquished By: AC
Date: 2/3/06

Received By: DMP (1)
Date: 2/8/06

Sample ID	Init. Sample Vol (uL) *Measured*	Init. Sample Vol (uL) *Adjusted*	Aliquot removed from Initial (ul) Sample Volume	Final Volume for GC Analysis (ul)	Diluted Sample ID	Dilution Spiked With: STD ID/ul AMT	Date/ Initials	Dilution of Conc.	Total Dilution of Amount
0601070-04	700	700	100	1000	0601070-04-RE	WHAC12 90uL (1)	2/8/06 DMP	10	10
0601070-06	700	700	100	1000	0601070-06-RE	WHAC12 90uL	↓	10	10
0601070-04	600	600	10	1000	0601070-04-RE2	WHAC12 99uL (1)	2/8/06 DMP	100	100
0601070-06	600	600	10	1000	0601070-06-RE2	WHAC12 99uL	↓	100	100

(1) Sample diluted by DMP signed for by RPR 2/16/06

Dilution Calculations Validated by: RPR
Date: 2/10/06

Alpha Woods Hole Lab
Batch Prep Report

02/01/2006 0602004STBIO - OP Steranes/Triterpanes

Lab ID	QC Type	Prep Method	Analyst	Prep Start Date	Prep Completed	TCLP Date	Initial Amount	Final Volume	Solvent Ex	Conc. Analyst	Conc. Date	Conc. Method	Transfer Volume	Vialed By	Vialed Date	Cell Number
0601070-04	SAM	Shaker	GJP	2/6/2006	2/9/2006		5.08	11.67	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0601070-06	SAM	Shaker	GJP	2/6/2006	2/9/2006		5.21	8.75	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-01	SAM	Shaker	DMP	2/1/2006	2/9/2006		10.17	5.2	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-02	SAM	Shaker	DMP	2/1/2006	2/9/2006		5.03	3.5	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-03	SAM	Shaker	DMP	2/1/2006	2/9/2006		5.04	9.61	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-04	D	Shaker	GJP	2/6/2006	2/9/2006		4.93	21.99	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-04	SAM	Shaker	DMP	2/6/2006	2/9/2006		5.25	22.26	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-05	SAM	Shaker	DMP	2/1/2006	2/9/2006		4.98	1.26	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-06	SAM	Shaker	GJP	2/6/2006	2/9/2006		5.11	17.88	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-07	SAM	Shaker	DMP	2/1/2006	2/9/2006		5.24	12.5	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-08	SAM	Shaker	DMP	2/1/2006	2/9/2006		5.41	8.33	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-09	D	Shaker	DMP	2/1/2006	2/9/2006		10.17	3.97	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-09	SAM	Shaker	DMP	2/1/2006	2/9/2006		10.14	6.06	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-10	SAM	Shaker	DMP	2/1/2006	2/9/2006		5.13	3.71	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-11	SAM	Shaker	DMP	2/1/2006	2/9/2006		10.57	2.92	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-12	SAM	Shaker	DMP	2/1/2006	2/9/2006		4.95	5.39	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-13	SAM	Shaker	DMP	2/1/2006	2/9/2006		5.02	2.8	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
0602004-14	SAM	Shaker	DMP	2/1/2006	2/9/2006		4.97	4.93	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
SS020106B11	B	Shaker	DMP	2/1/2006	2/9/2006		30	4	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
SS020106B11	B	Shaker	DMP	2/1/2006	2/9/2006		30	4	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
SS020606B06	B	Shaker	GJP	2/6/2006	2/9/2006		30	4	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	
SS020606B06	B	Shaker	GJP	2/6/2006	2/9/2006		30	4	False	KLA	2/8/2006	KD Flask	0.15	DMP	2/9/2006	

Alpha Woods Hole Lab
Batch Prep Report

02/01/2006 0602004STBIO - OP Steranes/Triterpanes

Lab ID	Notes
0601070-04	2nd Prep (Re-prep)
0601070-06	2nd Prep (Re-prep)
0602004-01	1st Prep
0602004-02	1st Prep
0602004-03	1st Prep
0602004-04	1st Prep
0602004-04	1st Prep
0602004-05	1st Prep
0602004-06	1st Prep
0602004-07	1st Prep
0602004-08	1st Prep
0602004-09	1st Prep
0602004-09	1st Prep
0602004-10	1st Prep
0602004-11	1st Prep
0602004-12	1st Prep
0602004-13	1st Prep
0602004-14	1st Prep
SS020106B11	1st Prep
SS020106B11	1st Prep
SS020606B06	1st Prep
SS020606B06	1st Prep

Pre-Silica Gel Gravimetric Determination

Analyst: KLA
Date: 2/7/06

BATCH: 0602004STBIO

Entered by: KLA
Verified by: KLA

Batch #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	NA	0.248	NA	NA	NA	NA	NA	99%
0601070	4		10000	50	NA	2.705	NA	541.00	900	48.69	11.11	
0601070	6		10000	50	NA	2.001	NA	400.20	1200	48.04	8.33	
0602004	1		10000	50	NA	0.518	NA	103.60	4800	49.81	2.08	
0602004	2		10000	50	NA	0.813	NA	162.60	3000	48.83	3.33	
0602004	3		10000	50	NA	1.888	NA	377.60	1300	49.10	7.69	
0602004	4	D	10000	50	NA	3.781	NA	756.20	650	49.17	15.38	15%
0602004	4		10000	50	NA	3.267	NA	653.40	750	49.02	13.33	
0602004	5		10000	50	NA	0.298	NA	59.60	8300	49.67	1.20	
0602004	6		10000	50	NA	2.973	NA	594.60	800	47.57	12.50	
0602004	7		10000	50	NA	2.482	NA	496.40	1000	49.64	10.00	
0602004	8		10000	50	NA	0.824	NA	164.80	3000	49.49	3.33	
0602004	9	D	10000	50	NA	0.589	NA	117.80	4200	49.50	2.38	22%
0602004	9		10000	50	NA	0.738	NA	147.60	3300	48.71	3.03	
0602004	10		10000	50	NA	0.543	NA	108.60	4500	48.92	2.22	
0602004	11		10000	50	NA	0.504	NA	100.80	4900	49.41	2.04	
0602004	12		10000	50	NA	0.786	NA	157.20	3100	48.67	3.23	
0602004	13		10000	50	NA	0.481	NA	96.20	5100	49.08	1.96	
0602004	14		10000	50	NA	0.850	NA	170.00	2900	49.28	3.45	

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

✓ 2nd 2/16/06

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Alpha Woods Hole Lab
Batch Clean Up Report

02/01/2006 0602004STBIO - OP Steranes/Triterpanes

Lab ID	QC Type	Clean Up Method	Analyst	Clean Up Date	Flow Rate	Coll. Start	Coll. End	Concentration Analyst	Conc. Date	Solvent Ex.	Prefraction Volume	Fractionation Amount	Fractionation Factor	Transfer Volume
0601070-04	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	0.9	0	0.15
0601070-06	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	1.2	0	0.15
0602004-01	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	4.8	0	0.15
0602004-02	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	3	0	0.15
0602004-03	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	1.3	0	0.15
0602004-04	D	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	0.65	0	0.15
0602004-04	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	0.75	0	0.15
0602004-05	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	8.3	0	0.15
0602004-06	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	0.8	0	0.15
0602004-07	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	1	0	0.15
0602004-08	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	3	0	0.15
0602004-09	D	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	4.2	0	0.15
0602004-09	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	3.3	0	0.15
0602004-10	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	4.5	0	0.15
0602004-11	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	4.9	0	0.15
0602004-12	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	3.1	0	0.15
0602004-13	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	5.1	0	0.15
0602004-14	SAM	3630	GJP	2/8/2006				DMP	2/8/2006	True	10	2.9	0	0.15
SS020106B11	B	3630	GJP	2/8/2006				DMP	2/8/2006	True	4	0.5	0	0.15
SS020106B11	B	3630	GJP	2/8/2006				DMP	2/8/2006	True	4	0.5	0	0.15
SS020606B06	B	3630	GJP	2/8/2006				DMP	2/8/2006	True	4	0.5	0	0.15
SS020606B06	B	3630	GJP	2/8/2006				DMP	2/8/2006	True	4	0.5	0	0.15

✓ 2nd 02/16/06

Alpha Woods Hole Lab
Batch Clean Up Report

02/01/2006 0602004STBIO - OP Steranes/Triterpanes

Lab ID	Notes
0601070-04	
0601070-06	
0602004-01	
0602004-02	
0602004-03	
0602004-04	
0602004-04	
0602004-05	
0602004-06	
0602004-07	
0602004-08	
0602004-09	
0602004-09	
0602004-10	
0602004-11	
0602004-12	
0602004-13	
0602004-14	
SS020106B11	
SS020106B11	
SS020606B06	
SS020606B06	

Post-Silica Gel Gravimetric Determination

Analyst: GJP
Date: 2/9/06

BATCH: 0602004_01070

Entered by: GJP
Verified by: RPR

Batch #	Sample #	QC (LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC Recov. (%)
		LCS	10000	50	NA	0.271	NA	54.20	NA	NA	NA	108%
0601070	4		1000	50	NA	0.208	NA	4.16	950	3.96	1.05	
0601070	6		1000	50	NA	0.200	NA	4.00	950	3.81	1.05	
0602004	1		1000	50	NA	0.564	NA	11.28	400	4.51	2.50	
0602004	2		1000	50	NA	0.166	NA	3.32	950	3.16	1.05	
0602004	3		1000	50	NA	0.337	NA	6.74	800	5.39	1.25	
0602004	4	D	1000	50	NA	0.386	NA	7.72	700	5.40	1.43	10%
0602004	4		1000	50	NA	0.425	NA	8.50	600	5.09	1.67	
0602004	5		1000	50	NA	0.255	NA	5.10	950	4.86	1.05	
0602004	6		1000	50	NA	0.367	NA	7.34	700	5.13	1.43	
0602004	7		1000	50	NA	0.319	NA	6.38	800	5.10	1.25	
0602004	8		1000	50	NA	0.695	NA	13.90	400	5.56	2.50	
0602004	9	D	1000	50	NA	0.423	NA	8.46	600	5.07	1.67	20%
0602004	9		1000	50	NA	0.518	NA	10.36	500	5.18	2.00	
0602004	10		1000	50	NA	0.428	NA	8.56	600	5.13	1.67	
0602004	11		1000	50	NA	0.380	NA	7.60	700	5.31	1.43	
0602004	12		1000	50	NA	0.416	NA	8.32	600	4.98	1.67	
0602004	13		1000	50	NA	0.376	NA	7.52	700	5.26	1.43	
0602004	14		1000	50	NA	0.364	NA	7.28	700	5.09	1.43	

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight

✓ 2nd 2/16/06

Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)

LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor

Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT

Duplicates should agree within +/- 10%.

Post-Silica Gel Gravimetric Determination

Analyst: GSP
Date: 2/9/06

BATCH: _____

Entered by: _____
Verified by: _____

Batch #	Sample #	QC (LCS, D)	Final Volume of Extract (ml)	Aliquot Removed #1 (ml)	Aliquot Removed #2 (ml)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Analysis (ul)	Oil to Column (mg)	Dilution Factor	QC (%R RPD)
		LCS	10000	50	NA	0.271						0%
0601070	4		1000	50	NA	0.208						
0601070	6		1000	50		0.200						
0602004	1		1000	50		0.564						
0602004	2		1000	50		0.166						
0602004	3		1000	50		0.337						
0602004	4	D	1000	50		0.386						#VALUE!
0602004	4		1000	50		0.425						
0602004	5		1000	50		0.255						
0602004	6		1000	50		0.367						
0602004	7		1000	50		0.319						
0602004	8		1000	50		0.695						
0602004	9	D	1000	50		0.423						#VALUE!
0602004	9		1000	50		~~0.518~~ ①						
0602004	10		1000	50		0.428						
0602004	11		1000	50		0.380						
0602004	12		1000	50		0.416						
0602004	13		1000	50		0.376						
0602004	14		1000	50		0.364						

① weight should be 0.518 GSP 2/9/06

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Alpha Woods Hole Labs Internal Std Tracking Form

Project Name:
ETR:

Biomarker

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0601070-04-F1	900	WHAC12 3of5	100	1000	11.67	DMP	150	NA	2/9/2006
0601070-06-F1	900	WHAC12 3of6	100	1000	8.75	DMP	150	NA	2/9/2006
0602004-01-F1	900	WHAC12 3of7	100	1000	5.20	DMP	150	NA	2/9/2006
0602004-02-F1	900	WHAC12 3of8	100	1000	3.50	DMP	150	NA	2/9/2006
0602004-03-F1	900	WHAC12 3of9	100	1000	9.61	DMP	150	NA	2/9/2006
0602004-04D-F1	900	WHAC12 3of10	100	1000	21.99	DMP	150	NA	2/9/2006
0602004-04-F1	900	WHAC12 3of11	100	1000	22.26	DMP	150	NA	2/9/2006
0602004-05-F1	900	WHAC12 3of12	100	1000	1.26	DMP	150	NA	2/9/2006
0602004-06-F1	900	WHAC12 3of13	100	1000	17.88	DMP	150	NA	2/9/2006
0602004-07-F1	900	WHAC12 3of14	100	1000	12.50	DMP	150	NA	2/9/2006
0602004-08-F1	900	WHAC12 3of15	100	1000	8.33	DMP	150	NA	2/9/2006
0602004-09D-F1	900	WHAC12 3of16	100	1000	3.97	DMP	150	NA	2/9/2006
0602004-09-F1	900	WHAC12 3of17	100	1000	6.06	DMP	150	NA	2/9/2006
0602004-10-F1	900	WHAC12 3of18	100	1000	3.71	DMP	150	NA	2/9/2006
0602004-11-F1	900	WHAC12 3of19	100	1000	2.92	DMP	150	NA	2/9/2006
0602004-12-F1	900	WHAC12 3of20	100	1000	5.39	DMP	150	NA	2/9/2006
0602004-13-F1	900	WHAC12 3of21	100	1000	2.80	DMP	150	NA	2/9/2006
0602004-14-F1	900	WHAC12 3of22	100	1000	4.93	DMP	150	NA	2/9/2006
SS020106B11-F1	900	WHAC12 3of23	100	1000	4.00	DMP	150	NA	2/9/2006
SS020606B06-F1	900	WHAC12 3of24	100	1000	4.00	DMP	150	NA	2/9/2006

[1] Includes Internal Std

+0601070 CN 2/16/06

Forensic Preparation Checklist

ETR: 0602004 Client: Newfields Project: Gowanus Canal

Workplan Present	N/A

Workplan Reviewed With Project Manager	N/A

Test Requested	
ALK-PAH	X
CHROMATOGRAM	
DENSITY	
HOMOLOG	
Pb	
SHC	X
TPH	
WHOLE OIL	
BIOMARKER	X
PHENOL	
OTHER	

Required Cleanups	
No Cleanup Required	
Copper	X
Conc. Sulfuric Acid	
GPC	
Silica Gel 923 Grade Glass Column	
Alumina (Super I) Glass Column	X
Alumina (F20) Glass Column	

Sample Observations			
Normal Weight/Volume Extracted		Lesser Amount Used - Sheen Present On Sample	
Lesser Amount Used - Low Sample Volume Provided		Lesser Amount Used - Suspected High Target Analytes	
Lesser Amount Used - Strong Hydrocarbon Odor ①	X	Sediment At Bottom Of Water Sample Jar	
Project Specific Weight Used		No Observations	

Other: ① All Samples signed for by RPR 2/10/06

Extraction Notes	
Emulsions During Shake	
Samples Extracted Outside Of Hold Time	
No Observations	

Other:

Identify Matrix - Circle One: Soil / Sediment / Water / Sheen / NAPL / Solid / Tissue / Product

	Date	Initials
1st Extraction	2/3/06	GJP
2nd Extraction ②	2/6/06	GJP
3rd Extraction ↓	2/6/06	GJP

② Re-extracted samples poured off on 2/6/06 1st, 2/7/06 2nd + 3rd. RPR 2/10/06

Concentration Notes			
Greater Final Volume - High Viscosity		Greater Final Volume - Inability To Concentrate Further	
Precipitate Formed During Concentration		No Observations	

Other:

SS020606LCS04 measured 2mL F.V.
Extract spilled 1mL (no archive)
0.5 split for Alumina column
0.5 split for silica column KLA 2/8/06
Signed by RPR 2/10/06

Batch Reviewed
Analyst: RPR
Date: 2/10/06

Batch Completed
Analyst: DMP ③
Date: 2/9/06 ↓

③ Signed by RPR 2/10/06 RPR

Alpha Woods Hole Lab
Batch Weight Report
01/26/2006

Lab ID	QC Type	PS012606A - Pan Weight	PS012606A - Wet Weight	PS012606A - Dry Weight	PS012606A - Dry Weight #2	PS012606A - Dry Weight #3	Percent Solid	RPD
0601070-01	D	0.99	6.47	3.87	3.87		52.55	0.08%
0601070-01	SAM	1.03	7.02	4.18	4.18		52.59	
0601070-02	SAM	1	7.33	4.55	4.55		56.08	
0601070-03	SAM	1	9.05	4.52	4.52		43.73	
0601070-04	SAM	1.03	8.86	5.25	5.25		53.9	
0601070-05	SAM	0.98	10.27	9.08	9.08		87.19	
0601070-06	SAM	0.99	7.6	4.34	4.33		50.53	
0601070-07	SAM	1.01	8	4.07	4.07		43.78	
0601070-08	SAM	1.01	8.34	4.26	4.26		44.34	
0601070-09	SAM	0.98	8.5	4.33	4.33		44.55	
PSS012606B13	B	0.99	0.99	0.99	0.99		100	

Initial: 1/26/2006 3:56:49 PM KJB
Weight #1: 1/27/2006 9:17:39 AM KJB
Weight #2: 1/27/2006 10:47:42 AM KJB

Alkylated Polynuclear Aromatic Hydrocarbons, Steranes and Triterpanes by Selective Ion Monitoring

Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-46C (5-5.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-01**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/23/06	01/26/06	01/26/06	02/02/06	52.6	5.96	166.67	10	AC

Parameter	Result		Parameter	Result
Naphthalene	6400000	E	Fluoranthene	700000
C1-Naphthalenes	4300000		Pyrene	1200000
C2-Naphthalenes	2700000		C1-Fluoranthenes/Pyrenes	1900000
C3-Naphthalenes	1200000		C2-Fluoranthenes/Pyrenes	1000000
C4-Naphthalenes	420000		C3-Fluoranthenes/Pyrenes	480000
Biphenyl	330000		C4-Fluoranthenes/Pyrenes	180000
Dibenzofuran	100000		Naphthobenzothiophenes	230000
Acenaphthylene	280000		C1-Naphthobenzothiophenes	320000
Acenaphthene	1700000		C2-Naphthobenzothiophenes	220000
Fluorene	810000		C3-Naphthobenzothiophenes	120000
C1-Fluorenes	820000		C4-Naphthobenzothiophenes	52000
C2-Fluorenes	660000		Benz[a]anthracene	450000
C3-Fluorenes	330000		Chrysene/Triphenylene	500000
Anthracene	960000		C1-Chrysenes	710000
Phenanthrene	2500000		C2-Chrysenes	430000
C1-Phenanthrenes/Anthracenes	2600000		C3-Chrysenes	250000
C2-Phenanthrenes/Anthracenes	1700000		C4-Chrysenes	86000
C3-Phenanthrenes/Anthracenes	710000		Benzo[b]fluoranthene	160000
C4-Phenanthrenes/Anthracenes	200000		Benzo[k]fluoranthene	170000
Retene	770	U	Benzo[a]fluoranthene	110000
Dibenzothiophene	400000		Benzo[e]pyrene	180000
C1-Dibenzothiophenes	600000		Benzo[a]pyrene	330000
C2-Dibenzothiophenes	590000		Perylene	63000
C3-Dibenzothiophenes	330000		Indeno[1,2,3-cd]pyrene	120000
C4-Dibenzothiophenes	120000		Dibenz[a,h]anthracene	40000
Benzo(b)fluorene	220000		Benzo[g,h,i]perylene	140000

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	96	50-130
Pyrene-d10	108	50-130
Benzo[b]fluoranthene-d12	82	50-130

N/A - Not Applicable
E - Estimated value, exceeds the upper limit of calibration.
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 20:36

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-46C (5-5.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-01**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/23/06	01/26/06	01/26/06	02/02/06	52.6	5.96	166.67	10	AC

Parameter	Result
Carbazole	**42000**

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	96	50-130
Pyrene-d10	108	50-130
Benzo[b]fluoranthene-d12	82	50-130

N/A - Not Applicable

02/14/06 20:36

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN31\
Data File : P17929.D
Acq On : 2 Feb 2006 10:23 pm
Operator : AC
Sample : 0601070-01
Misc : 10X
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Feb 12 14:06:00 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.53	164	43726m	500.00	ng/mL	-0.01
72) Chrysene-d12	42.99	240	77264	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.21	152	1082	11.54	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery =	1.15%#		
58) Pyrene-d10	38.07	212	2508m	13.01	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	1.30%#		
81) Benzo[b]fluoranthene-d12	46.90	264	1517m	9.86	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.99%#		
125) 5B(H)Cholane - Surr	43.63	217	444m	14.62	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	1.46%#		

Target Compounds						Qvalue
9) Naphthalene	19.66	128	2702868	12104.02	ng/mL#	100
10) C1-Naphthalenes	22.34	142	1822709m	8162.48	ng/mL	
11) C2-Naphthalenes	25.18	156	1151452m	5156.45	ng/mL	
12) C3-Naphthalenes	27.52	170	521813m	2336.79	ng/mL	
13) C4-Naphthalenes	30.28	184	177569m	795.19	ng/mL	
15) 2-Methylnaphthalene	22.34	142	1102223	7796.90	ng/mL#	100
16) 1-Methylnaphthalene	22.77	142	718234	5396.67	ng/mL#	100
22) Biphenyl	24.21	154	108533	617.53	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.83	156	131090m	1117.37	ng/mL	
24) Dibenzofuran	27.30	168	37218m	188.50	ng/mL	
25) Acenaphthylene	25.92	152	113266m	529.01	ng/mL	
26) Acenaphthene	26.65	153	426213	3204.64	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.21	170	36099m	342.76	ng/mL	
28) Fluorene	28.67	166	227116m	1522.64	ng/mL	
29) C1-Fluorenes	30.90	180	231541m	1552.31	ng/mL	
30) C2-Fluorenes	33.08	194	185799m	1245.64	ng/mL	
31) C3-Fluorenes	35.08	208	91808m	615.50	ng/mL	
32) Dibenzothiophene	31.99	184	163542	743.48	ng/mL#	93
37) C1-Dibenzothiophenes	33.76	198	249322m	1133.45	ng/mL	
38) C2-Dibenzothiophenes	35.82	212	242324m	1101.63	ng/mL	
39) C3-Dibenzothiophenes	37.27	226	137002m	622.83	ng/mL	
40) C4-Dibenzothiophenes	38.95	240	49082m	223.13	ng/mL	
41) Phenanthrene	32.49	178	1037814	4692.20	ng/mL	100
47) C1-Phenanthrenes/Anthracen	34.55	192	1091148m	4933.33	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.73	206	721748m	3263.19	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.57	220	295227m	1334.79	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.77	234	83537m	377.69	ng/mL	
53) Anthracene	32.67	178	369351	1804.88	ng/mL	100
54) Carbazole	33.33	167	15037	79.39	ng/mL#	88
55) 1-Methylphenanthrene	35.00	192	186719	1232.91	ng/mL	97
56) Fluoranthene	37.27	202	310819m	1319.84	ng/mL	
57) Benzo(b)fluorene	39.78	216	57507m	418.42	ng/mL	
59) Pyrene	38.15	202	539505	2252.47	ng/mL	99
60) C1-Fluoranthenes/Pyrenes	39.55	216	845583m	3530.37	ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.01	230	465242m	1942.42	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.47	244	217969m	910.04	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.74	258	79575m	332.23	ng/mL	
64) Naphthobenzothiophene	42.00	234	61797	275.79	ng/ml	97
65) Naphthobenzothiophene-2,1-	42.00	234	61797	275.79	ng/mL	97
66) Naphthobenzothiophene-1,2-	42.35	234	18498	82.55	ng/mL#	35

E
RFt Ref
Conc and Ref
W 2/16/06 V N.HL 2/15/06

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN31\
Data File : P17929.D
Acq On : 2 Feb 2006 10:23 pm
Operator : AC
Sample : 0601070-01
Misc : 10X
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Feb 12 14:06:00 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

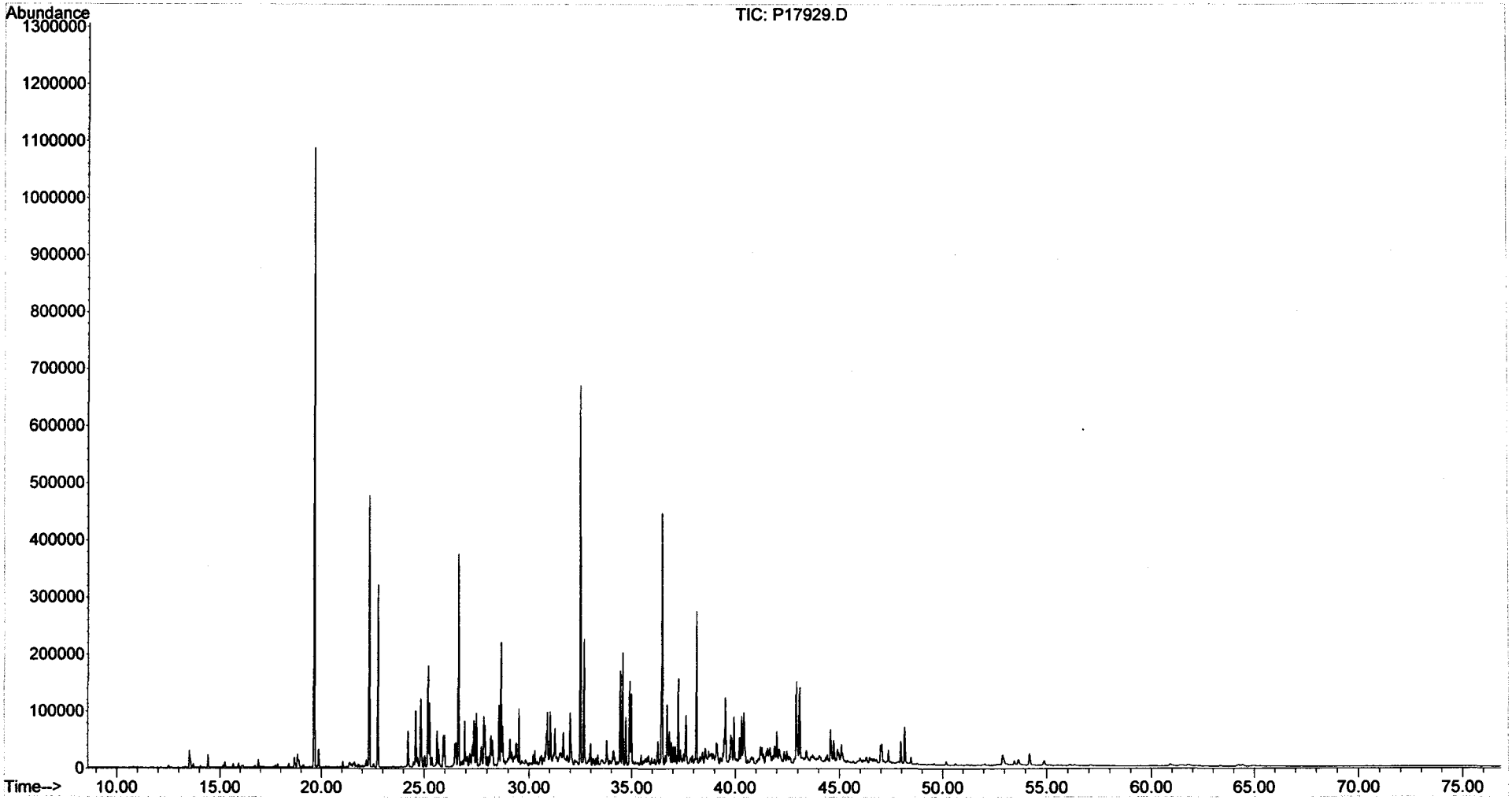
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Naphthobenzothiophene-2,3-	42.64	234	17969m	80.19	ng/mL	
68) C1-Naphthobenzothiophenes	43.40	248	133602m	596.24	ng/ml	
69) C2-Naphthobenzothiophenes	45.45	262	93709m	418.21	ng/ml	
70) C3-Naphthobenzothiophenes	47.03	276	49696m	221.78	ng/ml	
71) C4-Naphthobenzothiophenes	48.08	290	22111m	98.68	ng/mL	
73) Benz[a]anthracene	42.93	228	199802m	849.50	ng/mL	
74) Chrysene	43.09	228	224925m	935.91	ng/mL	
75) Chrysene/Triphenylene	43.09	228	225201m	937.06	ng/mL	
76) C1-Chrysenes	44.58	242	319477m	1329.34	ng/mL	
77) C2-Chrysenes	46.28	256	196912m	819.35	ng/mL	
78) BBF-d12 Surr BKGD	46.89	256	2458	10.23	ng/mL	100
79) C3-Chrysenes	47.87	270	113862m	473.78	ng/mL	
80) C4-Chrysenes	49.43	284	38645m	160.80	ng/mL	
82) Benzo[b]fluoranthene	46.98	252	70853	293.33	ng/mL	98
83) Benzo[k]fluoranthene	47.04	252	82054	326.53	ng/mL	99
84) Benzo[a]fluoranthene	47.36	252	50546m	201.14	ng/mL	
85) Benzo[e]pyrene	47.97	252	79922	341.75	ng/mL	96
86) Benzo[a]pyrene	48.16	252	143576	620.50	ng/mL	96
87) Perylene	48.47	252	26985	119.31	ng/mL	93
88) Indeno[1,2,3-cd]pyrene	52.91	276	47230m	231.94	ng/mL	
89) Dibenz[a,h]anthracene	52.98	278	15692m	75.60	ng/mL	
90) Benzo[g,h,i]perylene	54.19	276	60378	257.32	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN31\
Data File : P17929.D
Acq On : 2 Feb 2006 10:23 pm
Operator : AC
Sample : 0601070-01
Misc : 10X
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Feb 12 14:06:00 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-46C (5-5.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-01**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/23/06	01/26/06	01/26/06	02/01/06	52.6	5.96	17.54	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**1600**	30,31-Bishomohopane-22S	**2000**
C24 Tricyclic Terpane	**1100**	30,31-Bishomohopane-22R	**1500**
C25 Tricyclic Terpane	**1100**	30,31-Trishomohopane-22S	**1000**
C24 Tetracyclic Terpane	**1400**	30,31-Trishomohopane-22R	**690**
C26 Tricyclic Terpane-22S	**440**	Tetrakishomohopane-22S	**620**
C26 Tricyclic Terpane-22R	**440**	Tetrakishomohopane-22R	**380**
C28 Tricyclic Terpane-22S	**530**	Pentakishomohopane-22S	**340**
C28 Tricyclic Terpane-22R	**560**	Pentakishomohopane-22R	**330**
C29 Tricyclic Terpane-22S	**590**	13b(H),17a(H)-20S-Diacholestane	**2100**
C29 Tricyclic Terpane-22R	**590**	13b(H),17a(H)-20R-Diacholestane	**1200**
18a-22,29,30-Trisnorneohopane-TS	**4500**	13b,17a-20S-Methyldiacholestane	**980**
C30 Tricyclic Terpane-22S	**470**	14a(H),17a(H)-20S-Cholestane	**1100**
C30 Tricyclic Terpane-22R	**280**	14a(H),17a(H)-20R-Cholestane	**3500**
17a(H)-22,29,30-Trisnorhopane-TM	**3100**	13b,17a-20R-Ethyldiacholestane	**450**
17a/b,21b/a 28,30-Bisnorhopane	**770**	13a,17b-20S-Ethyldiacholestane	**120**
17a(H),21b(H)-25-Norhopane	**340**	14a,17a-20S-Methylcholestane	**580**
30-Norhopane	**8500**	14a,17a-20R-Methylcholestane	**1600**
18a(H)-30-Norneohopane-C29Ts	**4100**	14a(H),17a(H)-20S-Ethylcholestane	**1100**
17a(H)-Diahopane	**990**	14a(H),17a(H)-20R-Ethylcholestane	**1600**
30-Normoretane	**1700**	14b(H),17b(H)-20R-Cholestane	**1600**
18a(H)&18b(H)-Oleananes	**2000**	14b(H),17b(H)-20S-Cholestane	**1600**
Hopane	**14000**	14b,17b-20R-Methylcholestane	**1500**
Moretane	**1900**	14b,17b-20S-Methylcholestane	**1800**
30-Homohopane-22S	**3300**	14b(H),17b(H)-20R-Ethylcholestane	**2200**
30-Homohopane-22R	**2900**	14b(H),17b(H)-20S-Ethylcholestane	**1500**

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	94	50-130

N/A - Not Applicable

02/14/06 21:30

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34925.D
Acq On : 1 Feb 2006 9:27 pm
Operator : AC
Sample : 0601070-01
Misc : 1X
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 14 12:30:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.42	240	88226	500.00	ng/mL	0.01

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.91	217	39726	1071.38	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 107.14%			

Target Compounds

						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.47	191	193751m	2555.52	ng/mL	
84) Hopane (T19)	52.47	191	193089m	2546.78	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.93	191	22293m	294.04	ng/ml	
86) C24 Tricyclic Terpane (T5)	41.66	191	14681	193.64	ng/ml	100
87) C25 Tricyclic Terpane (T6)	43.14	191	14832m	195.63	ng/ml	
88) C24 Tetracyclic Terpane (T	44.47	191	18359	242.15	ng/ml	100
89) C26 Tricyclic Terpane-22S	44.20	191	6005	79.20	ng/ml	100
90) C26 Tricyclic Terpane-22R	44.30	191	5969m	78.73	ng/ml	
91) C28 Tricyclic Terpane-22S	46.58	191	7125m	93.98	ng/ml	
92) C28 Tricyclic Terpane-22R	46.75	191	7577m	99.94	ng/ml	
93) C29 Tricyclic Terpane-22S	47.26	191	7956	104.94	ng/ml	100
94) C29 Tricyclic Terpane-22R	47.47	191	7993m	105.43	ng/ml	
95) 18a-22,29,30-Trisnorneohop	48.62	191	60422	796.95	ng/ml	100
96) C30 Tricyclic Terpane-22S	48.71	191	6359	83.87	ng/mL	100
97) C30 Tricyclic Terpane-22R	48.95	191	3728m	49.17	ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	49.17	191	41666	549.56	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	50.39	191	10389m	137.03	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	50.17	191	4680	61.73	ng/ml	100
101) 30-Norhopane (T15)	51.06	191	114856m	1514.92	ng/ml	
102) 18a(H)-30-Norneohopane-C29	51.17	191	55848m	736.62	ng/ml	
103) 17a(H)-Diahopane (X)	51.30	191	13405m	176.81	ng/ml	
104) 30-Normoretane (T17)	51.86	191	23581	311.03	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	52.27	191	26825m	353.81	ng/ml	
106) Moretane (T20)	53.16	191	25414m	335.20	ng/ml	
107) 30-Homohopane-22S (T21)	54.28	191	44897	592.18	ng/ml	100
108) 30-Homohopane-22R (T22)	54.52	191	39563	521.82	ng/ml	100
109) 30,31-Bishomohopane-22S (T	55.86	191	26881	354.55	ng/ml	100
110) 30,31-Bishomohopane-22R (T	56.25	191	19814	261.34	ng/ml	100
111) 30,31-Trishomohopane-22S (	58.03	191	13897m	183.30	ng/ml	
112) 30,31-Trishomohopane-22R (	58.67	191	9302	122.69	ng/ml	100
113) Tetrakishomohopane-22S (T3	60.73	191	8459	111.57	ng/ml	100
114) Tetrakishomohopane-22R (T3	61.63	191	5186m	68.40	ng/ml	
115) Pentakishomohopane-22S (T3	63.93	191	4627m	61.03	ng/ml	
116) Pentakishomohopane-22R (T3	65.24	191	4420m	58.30	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	45.41	217	13829m	372.96	ng/ml	
119) 13b(H),17a(H)-20R-Diachole	45.83	217	8149m	219.77	ng/ml	
120) 13b,17a-20S-Methyldiachole	46.54	217	6483m	174.84	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	47.41	217	7251m	195.55	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.94	217	23334	629.30	ng/ml	100
123) 13b,17a-20R-Ethyldiacholes	48.22	217	2991m	80.67	ng/ml	

Reprint conc 2nd 2/16/06 ✓ MAL 2/15/06

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34925.D
Acq On : 1 Feb 2006 9:27 pm
Operator : AC
Sample : 0601070-01
Misc : 1X
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 14 12:30:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

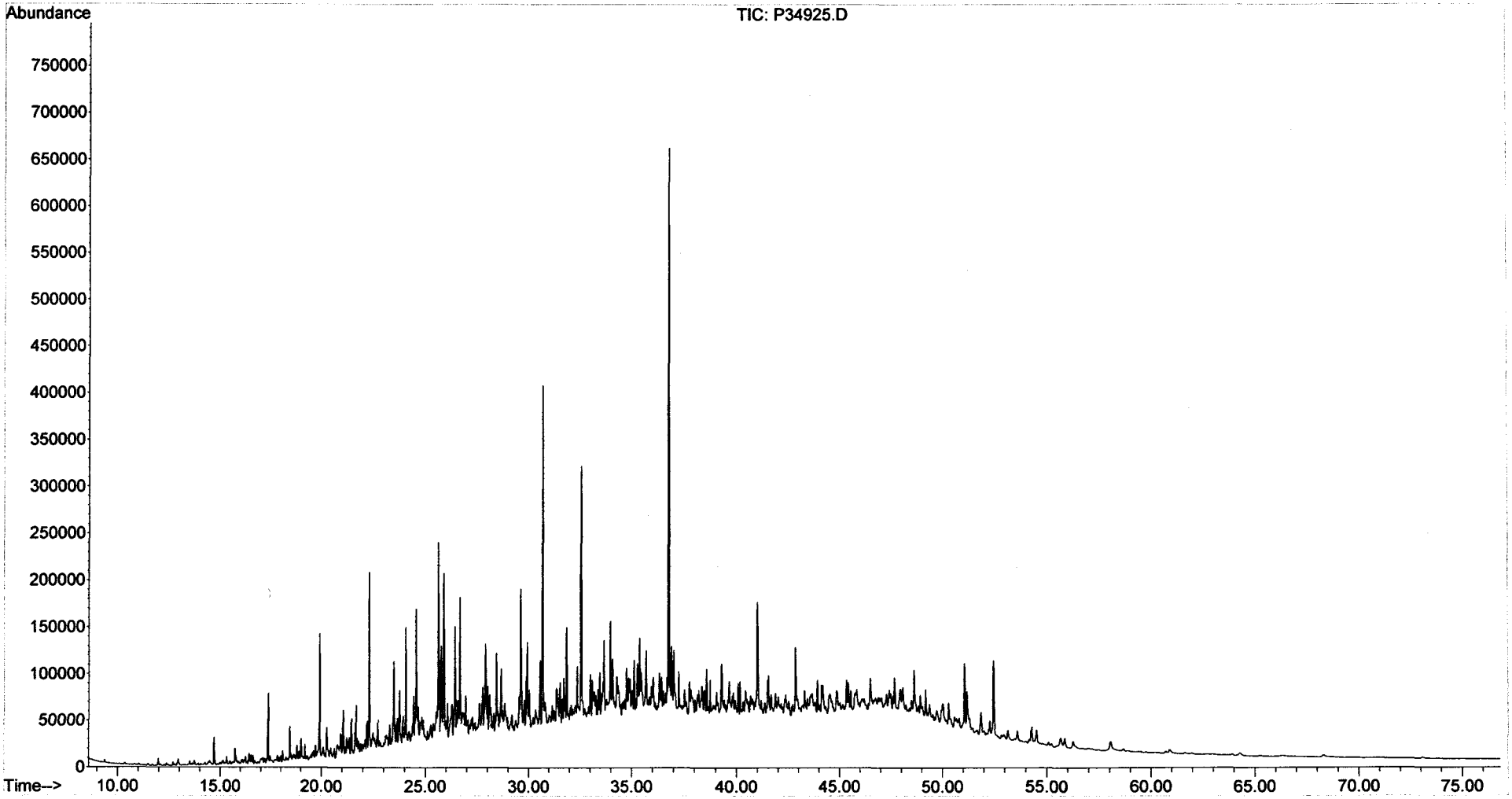
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
124) 13a,17b-20S-Ethyldiacholes	48.49	217	780	21.04 ng/ml	100
125) 14a,17a-20S-Methylcholesta	48.65	217	3809m	102.73 ng/ml	
126) 14a,17a-20R-Methylcholesta	49.38	217	10815m	291.67 ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	49.72	217	7029m	189.57 ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	50.67	217	10681m	288.06 ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	47.50	218	10765m	290.32 ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	47.59	218	10693m	288.38 ng/ml	
131) 14b,17b-20R-Methylcholesta	48.82	218	10229m	275.87 ng/ml	
132) 14b,17b-20S-Methylcholesta	48.90	218	11844m	319.42 ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.98	218	14545m	392.27 ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	50.03	218	10032m	270.56 ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34925.D
Acq On : 1 Feb 2006 9:27 pm
Operator : AC
Sample : 0601070-01
Misc : 1X
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 14 12:30:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-46C (5-5.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-01E**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/23/06	01/26/06	01/26/06	02/04/06	52.6	5.96	166.67	100	AC

Parameter	Result		Parameter	Result	
Naphthalene	**6400000**		Fluoranthene	5400	U
C1-Naphthalenes	8800	U	Pyrene	4700	U
C2-Naphthalenes	8800	U	C1-Fluoranthenes/Pyrenes	4700	U
C3-Naphthalenes	8800	U	C2-Fluoranthenes/Pyrenes	4700	U
C4-Naphthalenes	8800	U	C3-Fluoranthenes/Pyrenes	4700	U
Biphenyl	4800	U	C4-Fluoranthenes/Pyrenes	4700	U
Dibenzofuran	6300	U	Naphthobenzothiophenes	6400	U
Acenaphthylene	9600	U	C1-Naphthobenzothiophenes	6400	U
Acenaphthene	6100	U	C2-Naphthobenzothiophenes	6400	U
Fluorene	6100	U	C3-Naphthobenzothiophenes	6400	U
C1-Fluorenes	6100	U	C4-Naphthobenzothiophenes	6400	U
C2-Fluorenes	6100	U	Benz[a]anthracene	8400	U
C3-Fluorenes	6100	U	Chrysene/Triphenylene	5700	U
Anthracene	7100	U	C1-Chrysenes	5700	U
Phenanthrene	7700	U	C2-Chrysenes	5700	U
C1-Phenanthrenes/Anthracenes	7700	U	C3-Chrysenes	5700	U
C2-Phenanthrenes/Anthracenes	7700	U	C4-Chrysenes	5700	U
C3-Phenanthrenes/Anthracenes	7700	U	Benzo[b]fluoranthene	5600	U
C4-Phenanthrenes/Anthracenes	7700	U	Benzo[k]fluoranthene	11000	U
Retene	7700	U	Benzo[a]fluoranthene	11000	U
Dibenzothiophene	5900	U	Benzo[e]pyrene	7300	U
C1-Dibenzothiophenes	5900	U	Benzo[a]pyrene	7400	U
C2-Dibenzothiophenes	5900	U	Perylene	9200	U
C3-Dibenzothiophenes	5900	U	Indeno[1,2,3-cd]pyrene	13000	U
C4-Dibenzothiophenes	5900	U	Dibenz[a,h]anthracene	10000	U
Benzo(b)fluorene	5400	U	Benzo[g,h,i]perylene	9400	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	115	50-130
Pyrene-d10	108	50-130
Benzo[b]fluoranthene-d12	98	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 20:56

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17977.D
Acq On : 4 Feb 2006 5:21 pm
Operator : AC
Sample : 0601070-01-RE
Misc : 100X
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 12 14:08:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/14/06

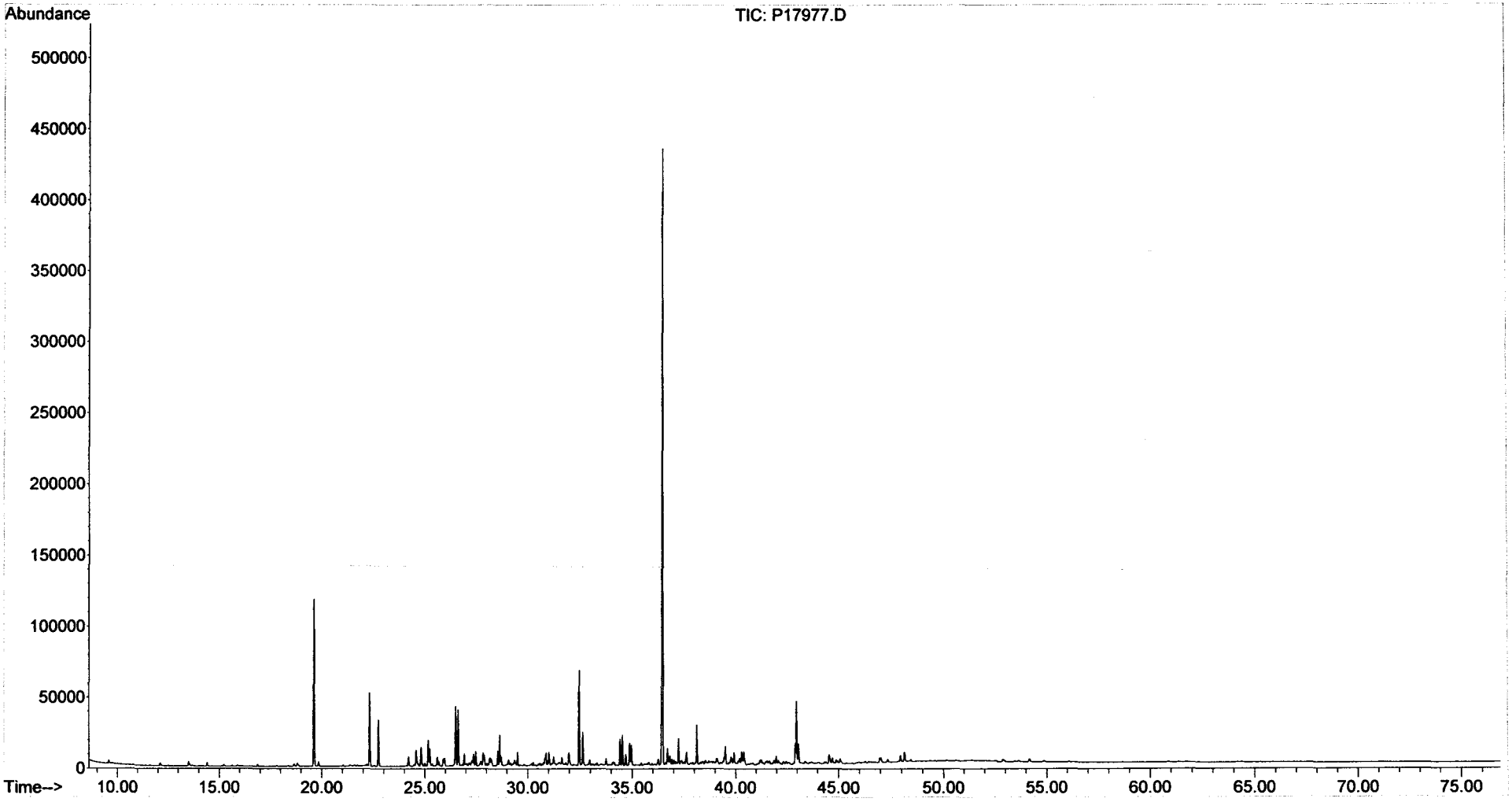
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	48516	500.00	ng/mL	-0.02
72) Chrysene-d12	42.98	240	83693	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.20	152	144m	1.38	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.14%#	
58) Pyrene-d10	38.05	212	277m	1.30	ng/mL	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.13%#	
81) Benzo[b]fluoranthene-d12	46.88	264	197m	1.18	ng/mL	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.12%#	
125) 5B(H)Cholane - Surr	0.00	217	0	0.00	ng/ml	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
Target Compounds						Qvalue
9) Naphthalene	19.63	128	295942	1194.44	ng/mL#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17977.D
Acq On : 4 Feb 2006 5:21 pm
Operator : AC
Sample : 0601070-01-RE
Misc : 100X
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 12 14:08:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-45C (1-1.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-02**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/23/06	01/26/06	01/26/06	02/02/06	56.1	5.19	89.29	10	AC

Parameter	Result		Parameter	Result
Naphthalene	6400000	E	Fluoranthene	640000
C1-Naphthalenes	3800000	E	Pyrene	1000000
C2-Naphthalenes	1900000		C1-Fluoranthenes/Pyrenes	1300000
C3-Naphthalenes	700000		C2-Fluoranthenes/Pyrenes	570000
C4-Naphthalenes	230000		C3-Fluoranthenes/Pyrenes	240000
Biphenyl	300000		C4-Fluoranthenes/Pyrenes	77000
Dibenzofuran	87000		Naphthobenzothiophenes	140000
Acenaphthylene	690000		C1-Naphthobenzothiophenes	160000
Acenaphthene	1100000		C2-Naphthobenzothiophenes	100000
Fluorene	850000		C3-Naphthobenzothiophenes	52000
C1-Fluorenes	560000		C4-Naphthobenzothiophenes	24000
C2-Fluorenes	380000		Benz[a]anthracene	380000
C3-Fluorenes	180000		Chrysene/Triphenylene	400000
Anthracene	1000000		C1-Chrysenes	430000
Phenanthrene	2300000		C2-Chrysenes	240000
C1-Phenanthrenes/Anthracenes	1800000		C3-Chrysenes	140000
C2-Phenanthrenes/Anthracenes	990000		C4-Chrysenes	42000
C3-Phenanthrenes/Anthracenes	380000		Benzo[b]fluoranthene	110000
C4-Phenanthrenes/Anthracenes	110000		Benzo[k]fluoranthene	160000
Retene	440	U	Benzo[a]fluoranthene	83000
Dibenzothiophene	290000		Benzo[e]pyrene	130000
C1-Dibenzothiophenes	360000		Benzo[a]pyrene	260000
C2-Dibenzothiophenes	300000		Perylene	44000
C3-Dibenzothiophenes	160000		Indeno[1,2,3-cd]pyrene	100000
C4-Dibenzothiophenes	53000		Dibenz[a,h]anthracene	28000
Benzo(b)fluorene	180000		Benzo[g,h,i]perylene	99000

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	83	50-130
Pyrene-d10	95	50-130
Benzo[b]fluoranthene-d12	85	50-130

N/A - Not Applicable
E - Estimated value, exceeds the upper limit of calibration.
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 19:57

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-45C (1-1.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-02**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/23/06	01/26/06	01/26/06	02/02/06	56.1	5.19	89.29	10	AC

Parameter	Result
Carbazole	33000

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	83	50-130
Pyrene-d10	95	50-130
Benzo[b]fluoranthene-d12	85	50-130

N/A - Not Applicable

02/14/06 19:57

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN31\
Data File : P17931.D
Acq On : 2 Feb 2006 11:57 pm
Operator : AC
Sample : 0601070-02
Misc : 10X
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 14 12:03:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.53	164	47470m	500.00	ng/mL	-0.01
72) Chrysene-d12	42.99	240	78957	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.21	152	1889	18.56	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 1.86%#			
58) Pyrene-d10	38.07	212	4469m	21.36	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 2.14%#			
81) Benzo[b]fluoranthene-d12	46.89	264	3011	19.15	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 1.91%#			
125) 5B(H)Cholane - Surr	43.63	217	676m	21.79	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 2.18%#			

Target Compounds						Qvalue
9) Naphthalene	19.66	128	5073593	20928.63	ng/mL#E	100
10) C1-Naphthalenes	22.34	142	2976562m	12278.35	ng/mLE	
11) C2-Naphthalenes	25.18	156	1516835m	6256.96	ng/mL	
12) C3-Naphthalenes	27.52	170	556441m	2295.33	ng/mL	
13) C4-Naphthalenes	30.28	184	179631m	740.98	ng/mL	
15) 2-Methylnaphthalene	22.34	142	1863127	12139.91	ng/mL#E	100
16) 1-Methylnaphthalene	22.77	142	1109205	7677.02	ng/mL#	100
22) Biphenyl	24.21	154	186409	976.97	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.83	156	191094m	1500.35	ng/mL	
24) Dibenzofuran	27.30	168	60794m	283.63	ng/mL	
25) Acenaphthylene	25.92	152	523125m	2250.54	ng/mL	
26) Acenaphthene	26.65	153	529953	3670.37	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.21	170	40056m	350.34	ng/mL	
28) Fluorene	28.67	166	447578m	2764.00	ng/mL	
29) C1-Fluorenes	30.90	180	293454m	1812.22	ng/mL	
30) C2-Fluorenes	33.08	194	198329m	1224.77	ng/mL	
31) C3-Fluorenes	35.08	208	94234m	581.94	ng/mL	
32) Dibenzothiophene	31.99	184	226937	950.31	ng/mL#	93
37) C1-Dibenzothiophenes	33.76	198	277734m	1163.03	ng/mL	
38) C2-Dibenzothiophenes	35.82	212	232835m	975.01	ng/mL	
39) C3-Dibenzothiophenes	37.27	226	122731m	513.94	ng/mL	
40) C4-Dibenzothiophenes	38.95	240	41369m	173.24	ng/mL	
41) Phenanthrene	32.50	178	1818051	7571.53	ng/mL	99
47) C1-Phenanthrenes/Anthracen	34.55	192	1420485m	5915.81	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.73	206	772230m	3216.06	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.57	220	301128m	1254.09	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.77	234	83682m	348.51	ng/mL	
53) Anthracene	32.67	178	731601	3293.10	ng/mL	100
54) Carbazole	33.33	167	22111	107.54	ng/mL#	89
55) 1-Methylphenanthrene	35.00	192	235842	1434.44	ng/mL	99
56) Fluoranthene	37.27	202	531221m	2077.82	ng/mL	
57) Benzo(b)fluorene	39.78	216	89262m	598.25	ng/mL	
59) Pyrene	38.15	202	856054	3292.19	ng/mL	99
60) C1-Fluoranthenes/Pyrenes	39.53	216	1068616m	4109.66	ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.01	230	485463m	1866.98	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.47	244	200849m	772.42	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.74	258	65408m	251.54	ng/mL	
64) Naphthobenzothiophene	42.00	234	66810	274.65	ng/ml	97
65) Naphthobenzothiophene-2,1-	42.00	234	66810	274.65	ng/mL	96
66) Naphthobenzothiophene-1,2-	42.35	234	19423	79.84	ng/mL#	33

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN31\
Data File : P17931.D
Acq On : 2 Feb 2006 11:57 pm
Operator : AC
Sample : 0601070-02
Misc : 10X
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 14 12:03:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

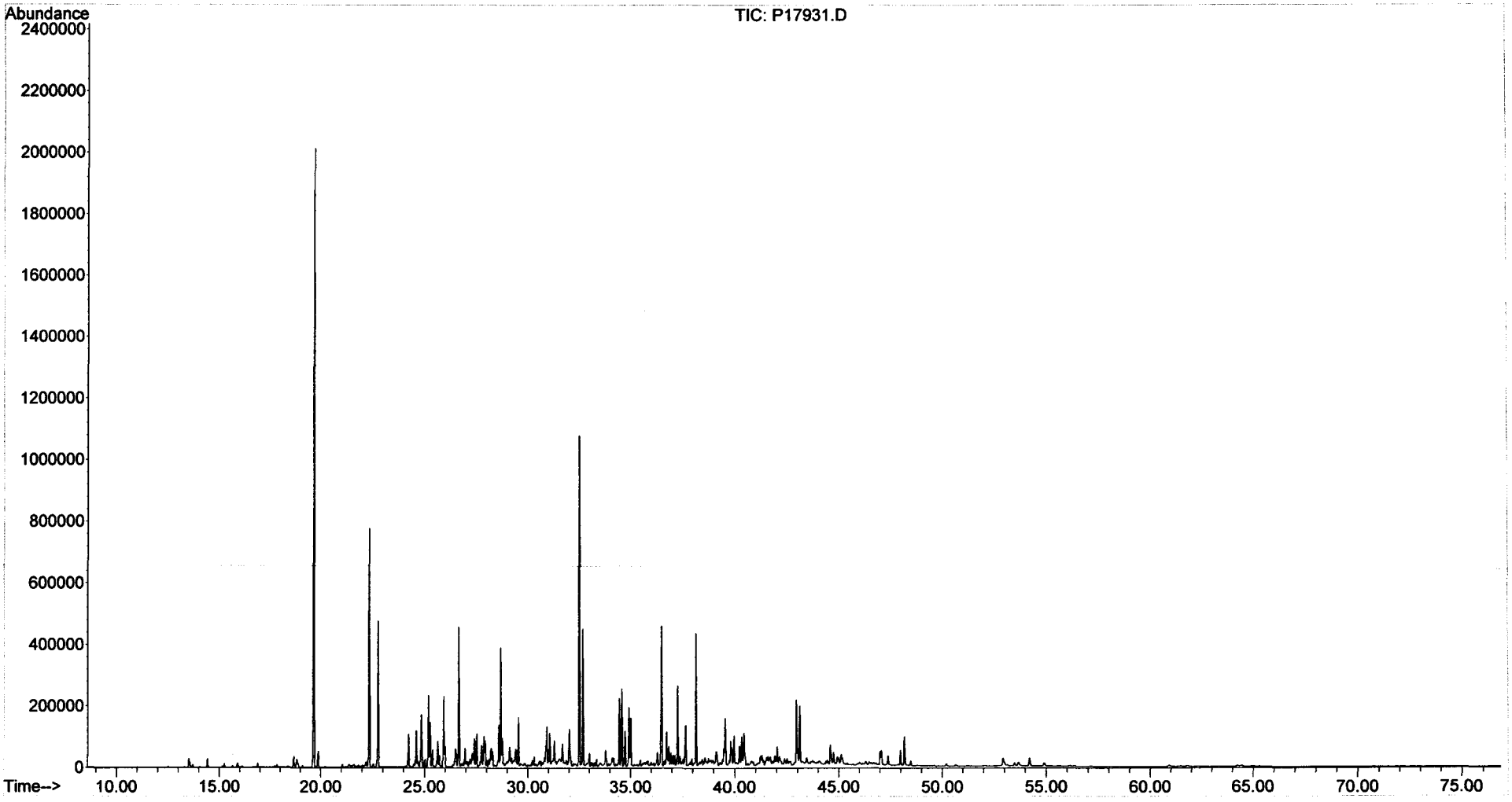
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Naphthobenzothiophene-2,3-	42.64	234	23778m	97.75	ng/mL	
68) C1-Naphthobenzothiophenes	43.40	248	124925m	513.55	ng/ml	
69) C2-Naphthobenzothiophenes	45.45	262	78943m	324.52	ng/ml	
70) C3-Naphthobenzothiophenes	47.02	276	41119m	169.03	ng/ml	
71) C4-Naphthobenzothiophenes	48.09	290	18617m	76.53	ng/mL	
73) Benz[a]anthracene	42.93	228	296268m	1232.64	ng/mL	
74) Chrysene	43.09	228	320237m	1303.93	ng/mL	
75) Chrysene/Triphenylene	43.09	228	321468m	1308.95	ng/mL	
76) C1-Chrysenes	44.58	242	342268m	1393.64	ng/mL	
77) C2-Chrysenes	46.28	256	190265m	774.72	ng/mL	
78) BBF-d12 Surr BKGD	46.90	256	639m	2.60	ng/mL	
79) C3-Chrysenes	47.87	270	111584m	454.35	ng/mL	
80) C4-Chrysenes	49.43	284	33312m	135.64	ng/mL	
82) Benzo[b]fluoranthene	46.98	252	88201	357.32	ng/mL	99
83) Benzo[k]fluoranthene	47.05	252	134789	524.88	ng/mL	98
84) Benzo[a]fluoranthene	47.36	252	69413m	270.30	ng/mL	
85) Benzo[e]pyrene	47.97	252	103418	432.74	ng/mL	94
86) Benzo[a]pyrene	48.16	252	199351m	843.07	ng/mL	
87) Perylene	48.47	252	32784m	141.84	ng/mL	
88) Indeno[1,2,3-cd]pyrene	52.91	276	69375m	333.39	ng/mL	
89) Dibenz[a,h]anthracene	52.96	278	19305m	91.02	ng/mL	
90) Benzo[g,h,i]perylene	54.19	276	77282	322.30	ng/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN31\
Data File : P17931.D
Acq On : 2 Feb 2006 11:57 pm
Operator : AC
Sample : 0601070-02
Misc : 10X
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 14 12:03:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-45C (1-1.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-02**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/23/06	01/26/06	01/26/06	02/01/06	56.1	5.19	10.53	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	730	30,31-Bishomohopane-22S	1100
C24 Tricyclic Terpane	450	30,31-Bishomohopane-22R	730
C25 Tricyclic Terpane	430	30,31-Trishomohopane-22S	500
C24 Tetracyclic Terpane	690	30,31-Trishomohopane-22R	310
C26 Tricyclic Terpane-22S	190	Tetrakishomohopane-22S	330
C26 Tricyclic Terpane-22R	180	Tetrakishomohopane-22R	210
C28 Tricyclic Terpane-22S	200	Pentakishomohopane-22S	200
C28 Tricyclic Terpane-22R	220	Pentakishomohopane-22R	150
C29 Tricyclic Terpane-22S	230	13b(H),17a(H)-20S-Diacholestane	880
C29 Tricyclic Terpane-22R	230	13b(H),17a(H)-20R-Diacholestane	490
18a-22,29,30-Trisnorneohopane-TS	2300	13b,17a-20S-Methyldiacholestane	380
C30 Tricyclic Terpane-22S	190	14a(H),17a(H)-20S-Cholestane	400
C30 Tricyclic Terpane-22R	86	14a(H),17a(H)-20R-Cholestane	1400
17a(H)-22,29,30-Trisnorhopane-TM	1500	13b,17a-20R-Ethyldiacholestane	210
17a/b,21b/a 28,30-Bisnorhopane	350	13a,17b-20S-Ethyldiacholestane	53
17a(H),21b(H)-25-Norhopane	120	14a,17a-20S-Methylcholestane	350
30-Norhopane	4200	14a,17a-20R-Methylcholestane	590
18a(H)-30-Norneohopane-C29Ts	2200	14a(H),17a(H)-20S-Ethylcholestane	400
17a(H)-Diahopane	520	14a(H),17a(H)-20R-Ethylcholestane	580
30-Normoretane	830	14b(H),17b(H)-20R-Cholestane	620
18a(H)&18b(H)-Oleananes	1000	14b(H),17b(H)-20S-Cholestane	630
Hopane	7100	14b,17b-20R-Methylcholestane	650
Moretane	840	14b,17b-20S-Methylcholestane	700
30-Homohopane-22S	1700	14b(H),17b(H)-20R-Ethylcholestane	890
30-Homohopane-22R	1400	14b(H),17b(H)-20S-Ethylcholestane	580

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	93	50-130

N/A - Not Applicable

02/14/06 21:30

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34926.D
Acq On : 1 Feb 2006 10:58 pm
Operator : AC
Sample : 0601070-02
Misc : 1X
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 14 12:36:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.42	240	91408	500.00	ng/mL	0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.91	217	67860	1766.43	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 176.64%#			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.47	191	153911m	1959.37	ng/mL	
84) Hopane (T19)	52.47	191	153993m	1960.41	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.93	191	15831m	201.54	ng/ml	
86) C24 Tricyclic Terpane (T5)	41.66	191	9725	123.80	ng/ml	100
87) C25 Tricyclic Terpane (T6)	43.14	191	9382m	119.44	ng/ml	
88) C24 Tetracyclic Terpane (T	44.47	191	14916	189.89	ng/ml	100
89) C26 Tricyclic Terpane-22S	44.20	191	4059	51.67	ng/ml	100
90) C26 Tricyclic Terpane-22R	44.30	191	3954m	50.34	ng/ml	
91) C28 Tricyclic Terpane-22S	46.58	191	4352m	55.40	ng/ml	
92) C28 Tricyclic Terpane-22R	46.75	191	4759m	60.58	ng/ml	
93) C29 Tricyclic Terpane-22S	47.26	191	5059	64.40	ng/ml	100
94) C29 Tricyclic Terpane-22R	47.46	191	5026m	63.98	ng/ml	
95) 18a-22,29,30-Trisnorneohop	48.61	191	50350	640.98	ng/ml	100
96) C30 Tricyclic Terpane-22S	48.71	191	4119	52.44	ng/mL	100
97) C30 Tricyclic Terpane-22R	48.95	191	1863m	23.72	ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	49.17	191	31605m	402.35	ng/ml	
99) 17a/b,21b/a 28,30-Bisnorho	50.40	191	7532m	95.89	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	50.17	191	2665m	33.93	ng/ml	
101) 30-Norhopane (T15)	51.06	191	91071m	1159.38	ng/ml	
102) 18a(H)-30-Norneohopane-C29	51.17	191	47734m	607.68	ng/ml	
103) 17a(H)-Diahopane (X)	51.30	191	11371m	144.76	ng/ml	
104) 30-Normoretane (T17)	51.85	191	17943	228.42	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	52.28	191	22194m	282.54	ng/ml	
106) Moretane (T20)	53.16	191	18259m	232.45	ng/ml	
107) 30-Homohopane-22S (T21)	54.28	191	36413	463.56	ng/ml	100
108) 30-Homohopane-22R (T22)	54.52	191	30688	390.67	ng/ml	100
109) 30,31-Bishomohopane-22S (T	55.86	191	23104	294.13	ng/ml	100
110) 30,31-Bishomohopane-22R (T	56.25	191	15933	202.84	ng/ml	100
111) 30,31-Trishomohopane-22S (	58.04	191	10868m	138.36	ng/ml	
112) 30,31-Trishomohopane-22R (	58.67	191	6733m	85.71	ng/ml	
113) Tetrakishomohopane-22S (T3	60.73	191	7210	91.79	ng/ml	100
114) Tetrakishomohopane-22R (T3	61.65	191	4631m	58.96	ng/ml	
115) Pentakishomohopane-22S (T3	63.93	191	4325m	55.06	ng/ml	
116) Pentakishomohopane-22R (T3	65.24	191	3238m	41.22	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	45.41	217	9340m	243.12	ng/ml	
119) 13b(H),17a(H)-20R-Diachole	45.83	217	5156m	134.21	ng/ml	
120) 13b,17a-20S-Methyldiachole	46.53	217	4093m	106.54	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	47.41	217	4250m	110.63	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.95	217	14848	386.50	ng/ml	100
123) 13b,17a-20R-Ethyldiacholes	48.22	217	2264m	58.93	ng/ml	

VMAL 2/14/06

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34926.D
Acq On : 1 Feb 2006 10:58 pm
Operator : AC
Sample : 0601070-02
Misc : 1X
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 14 12:36:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

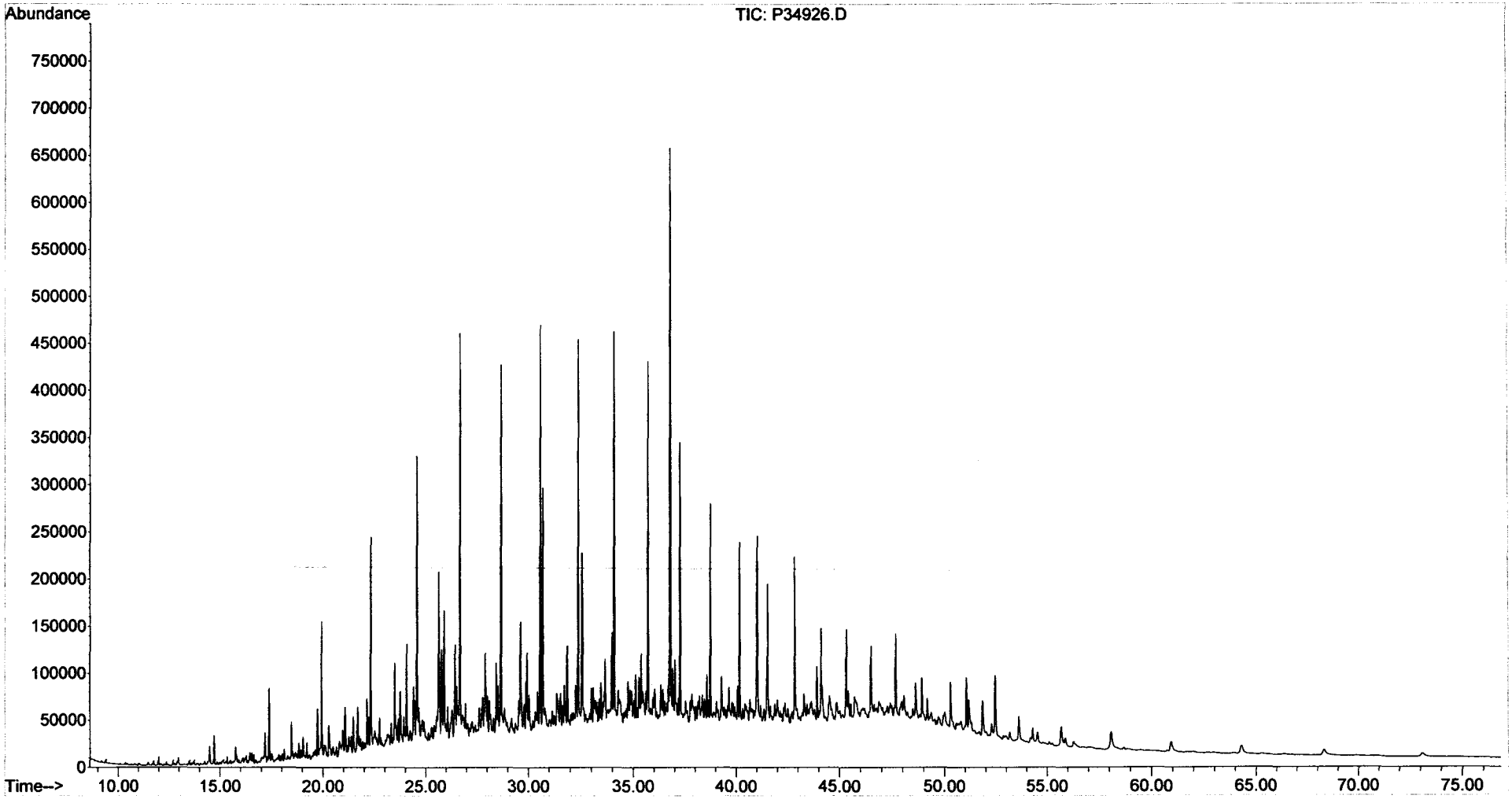
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
124) 13a,17b-20S-Ethyldiacholes	48.48	217	560m	14.58	ng/ml	
125) 14a,17a-20S-Methylcholesta	48.63	217	3740m	97.35	ng/ml	
126) 14a,17a-20R-Methylcholesta	49.38	217	6219m	161.88	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	49.74	217	4235m	110.24	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	50.67	217	6185m	161.00	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	47.50	218	6627m	172.50	ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	47.59	218	6669m	173.60	ng/ml	
131) 14b,17b-20R-Methylcholesta	48.82	218	6865m	178.70	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.90	218	7480m	194.71	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.97	218	9492m	247.08	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	50.03	218	6168m	160.56	ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34926.D
Acq On : 1 Feb 2006 10:58 pm
Operator : AC
Sample : 0601070-02
Misc : 1X
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 14 12:36:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-45C (1-1.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-02E**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/23/06	01/26/06	01/26/06	02/04/06	56.1	5.19	89.29	100	AC

Parameter	Result		Parameter	Result	
Naphthalene	**6700000**		Fluoranthene	3100	U
C1-Naphthalenes	**4000000**		Pyrene	2700	U
C2-Naphthalenes	5100	U	C1-Fluoranthenes/Pyrenes	2700	U
C3-Naphthalenes	5100	U	C2-Fluoranthenes/Pyrenes	2700	U
C4-Naphthalenes	5100	U	C3-Fluoranthenes/Pyrenes	2700	U
Biphenyl	2800	U	C4-Fluoranthenes/Pyrenes	2700	U
Dibenzofuran	3600	U	Naphthobenzothiophenes	3700	U
Acenaphthylene	5600	U	C1-Naphthobenzothiophenes	3700	U
Acenaphthene	3500	U	C2-Naphthobenzothiophenes	3700	U
Fluorene	3500	U	C3-Naphthobenzothiophenes	3700	U
C1-Fluorenes	3500	U	C4-Naphthobenzothiophenes	3700	U
C2-Fluorenes	3500	U	Benz[a]anthracene	4800	U
C3-Fluorenes	3500	U	Chrysene/Triphenylene	3300	U
Anthracene	4100	U	C1-Chrysenes	3300	U
Phenanthrene	4400	U	C2-Chrysenes	3300	U
C1-Phenanthrenes/Anthracenes	4400	U	C3-Chrysenes	3300	U
C2-Phenanthrenes/Anthracenes	4400	U	C4-Chrysenes	3300	U
C3-Phenanthrenes/Anthracenes	4400	U	Benzo[b]fluoranthene	3200	U
C4-Phenanthrenes/Anthracenes	4400	U	Benzo[k]fluoranthene	6200	U
Retene	4400	U	Benzo[a]fluoranthene	6200	U
Dibenzothiophene	3400	U	Benzo[e]pyrene	4200	U
C1-Dibenzothiophenes	3400	U	Benzo[a]pyrene	4300	U
C2-Dibenzothiophenes	3400	U	Perylene	5300	U
C3-Dibenzothiophenes	3400	U	Indeno[1,2,3-cd]pyrene	7400	U
C4-Dibenzothiophenes	3400	U	Dibenz[a,h]anthracene	5800	U
Benzo(b)fluorene	3100	U	Benzo[g,h,i]perylene	5400	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	91	50-130
Pyrene-d10	94	50-130
Benzo[b]fluoranthene-d12	97	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 20:57

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17979.D
Acq On : 4 Feb 2006 6:55 pm
Operator : AC
Sample : 0601070-02-RE
Misc : 100X
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 14:23:35 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/14/06

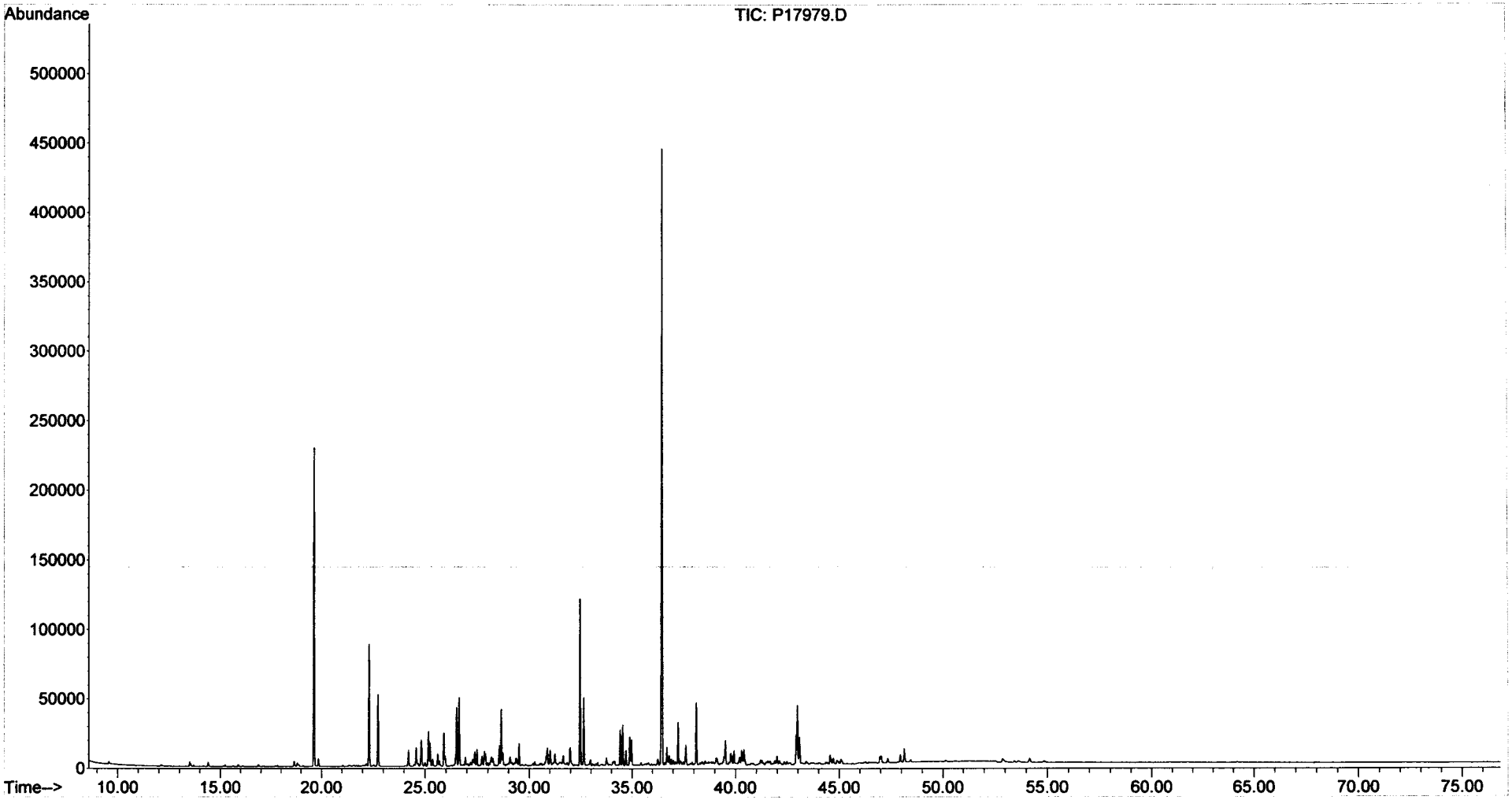
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	50224	500.00	ng/mL	-0.02
72) Chrysene-d12	42.98	240	85087	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.20	152	219m	2.03	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.20%#	
58) Pyrene-d10	38.06	212	468m	2.11	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.21%#	
81) Benzo[b]fluoranthene-d12	46.88	264	369m	2.18	ng/mL	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.22%#	
125) 5B(H)Cholane - Surr	43.58	217	155m	4.64	ng/ml	-0.07
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.46%#	
Target Compounds						Qvalue
9) Naphthalene	19.63	128	562183	2191.85	ng/mL#	100
10) C1-Naphthalenes	22.32	142	331999m	1294.40	ng/mL	
15) 2-Methylnaphthalene	22.32	142	206578	1272.23	ng/mL#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17979.D
Acq On : 4 Feb 2006 6:55 pm
Operator : AC
Sample : 0601070-02-RE
Misc : 100X
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 14:23:35 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-55 (1.5-2.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-03**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	01/26/06	02/04/06	43.7	10.67	17.54	1	AC

Parameter	Result	Parameter	Result
Naphthalene	2300	Fluoranthene	43000 E
C1-Naphthalenes	1900	Pyrene	64000 E
C2-Naphthalenes	13000	C1-Fluoranthenes/Pyrenes	81000
C3-Naphthalenes	18000	C2-Fluoranthenes/Pyrenes	40000
C4-Naphthalenes	12000	C3-Fluoranthenes/Pyrenes	18000
Biphenyl	290	C4-Fluoranthenes/Pyrenes	6500
Dibenzofuran	550	Naphthobenzothiophenes	10000
Acenaphthylene	11000	C1-Naphthobenzothiophenes	13000
Acenaphthene	14000	C2-Naphthobenzothiophenes	8800
Fluorene	940	C3-Naphthobenzothiophenes	5000
C1-Fluorenes	11000	C4-Naphthobenzothiophenes	2400
C2-Fluorenes	17000	Benz[a]anthracene	27000
C3-Fluorenes	13000	Chrysene/Triphenylene	28000
Anthracene	26000	C1-Chrysenes	30000
Phenanthrene	9400	C2-Chrysenes	17000
C1-Phenanthrenes/Anthracenes	65000	C3-Chrysenes	9800
C2-Phenanthrenes/Anthracenes	60000	C4-Chrysenes	3100
C3-Phenanthrenes/Anthracenes	28000	Benzo[b]fluoranthene	13000
C4-Phenanthrenes/Anthracenes	8600	Benzo[k]fluoranthene	13000
Retene	1300	Benzo[a]fluoranthene	6200
Dibenzothiophene	6500	Benzo[e]pyrene	13000
C1-Dibenzothiophenes	15000	Benzo[a]pyrene	22000
C2-Dibenzothiophenes	20000	Perylene	3800
C3-Dibenzothiophenes	12000	Indeno[1,2,3-cd]pyrene	11000
C4-Dibenzothiophenes	5000	Dibenz[a,h]anthracene	3000
Benzo(b)fluorene	14000	Benzo[g,h,i]perylene	11000

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	74	50-130
Pyrene-d10	94	50-130
Benzo[b]fluoranthene-d12	84	50-130

N/A - Not Applicable
E - Estimated value, exceeds the upper limit of calibration.

02/14/06 20:01

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-55 (1.5-2.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-03**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	01/26/06	02/04/06	43.7	10.67	17.54	1	AC

Parameter	Result
Carbazole	260

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	74	50-130
Pyrene-d10	94	50-130
Benzo[b]fluoranthene-d12	84	50-130

N/A - Not Applicable

02/14/06 20:02

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17985.D
Acq On : 4 Feb 2006 11:39 pm
Operator : AC
Sample : 0601070-03
Misc : 1X
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 12 17:40:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

CMS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	49956m	500.00	ng/mL	-0.02
72) Chrysene-d12	43.00	240	95864	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.20	152	90681	846.73	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 84.67%			
58) Pyrene-d10	38.07	212	237086	1076.72	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 107.67%			
81) Benzo[b]fluoranthene-d12	46.90	264	182866	957.91	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 95.79%			
125) 5B(H)Cholane - Surr	43.63	217	32956	874.91	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 87.49%			

Target Compounds						Qvalue
9) Naphthalene	19.63	128	155160	608.19	ng/mL#	100
10) C1-Naphthalenes	22.74	142	128202m	502.52	ng/mL	
11) C2-Naphthalenes	25.17	156	868775m	3405.37	ng/mL	
12) C3-Naphthalenes	27.51	170	1253670m	4914.05	ng/mL	
13) C4-Naphthalenes	30.27	184	849258m	3328.87	ng/mL	
15) 2-Methylnaphthalene	22.32	142	51811	320.79	ng/mL#	100
16) 1-Methylnaphthalene	22.74	142	76832	505.31	ng/mL#	100
22) Biphenyl	24.20	154	15334m	76.37	ng/mL	
23) 2,6-Dimethylnaphthalene	24.82	156	105141m	784.42	ng/mL	
24) Dibenzofuran	27.29	168	33086m	146.68	ng/mL	
25) Acenaphthylene	25.91	152	738402m	3018.61	ng/mL	
26) Acenaphthene	26.64	153	547533	3603.42	ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.20	170	94920m	788.87	ng/mL	
28) Fluorene	28.66	166	42510m	249.46	ng/mL	
29) C1-Fluorenes	30.89	180	487627m	2861.47	ng/mL	
30) C2-Fluorenes	33.07	194	783227m	4596.10	ng/mL	
31) C3-Fluorenes	35.06	208	571077m	3351.17	ng/mL	
32) Dibenzothiophene	31.98	184	434162	1727.61	ng/mL#	88
36) OTP	34.20	198	25082m	99.81	ng/mL	
37) C1-Dibenzothiophenes	33.76	198	1003153m	3991.72	ng/mL	
38) C2-Dibenzothiophenes	35.45	212	1313711m	5227.49	ng/mL	
39) C3-Dibenzothiophenes	37.27	226	832996m	3314.64	ng/mL	
40) C4-Dibenzothiophenes	38.95	240	333670m	1327.73	ng/mL	
41) Phenanthrene	32.47	178	630616	2495.59	ng/mL	100
47) C1-Phenanthrenes/Anthracen	34.46	192	4372470m	17303.57	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.73	206	4061941m	16074.69	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.57	220	1886276m	7464.73	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.77	234	575740m	2278.43	ng/mL	
52) Retene	39.50	234	18779m	355.44	ng/mL	
53) Anthracene	32.66	178	1616327	6913.39	ng/mL	100
54) Carbazole	33.33	167	14715m	68.00	ng/mL	
55) 1-Methylphenanthrene	35.00	192	817561	4725.13	ng/mL	99
56) Fluoranthene	37.28	202	3086488m	11471.73	ng/mL E	
57) Benzo(b)fluorene	39.79	216	575443m	3664.78	ng/mL	
59) Pyrene	38.16	202	4632459	16928.85	ng/mL E	100
60) C1-Fluoranthenes/Pyrenes	39.55	216	5925773m	21655.14	ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.01	230	2933288m	10719.40	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.49	244	1309732m	4786.28	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.75	258	474297m	1733.27	ng/mL	
64) Naphthobenzothiophene	42.00	234	443777	1733.51	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17985.D
Acq On : 4 Feb 2006 11:39 pm
Operator : AC
Sample : 0601070-03
Misc : 1X
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 12 17:40:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

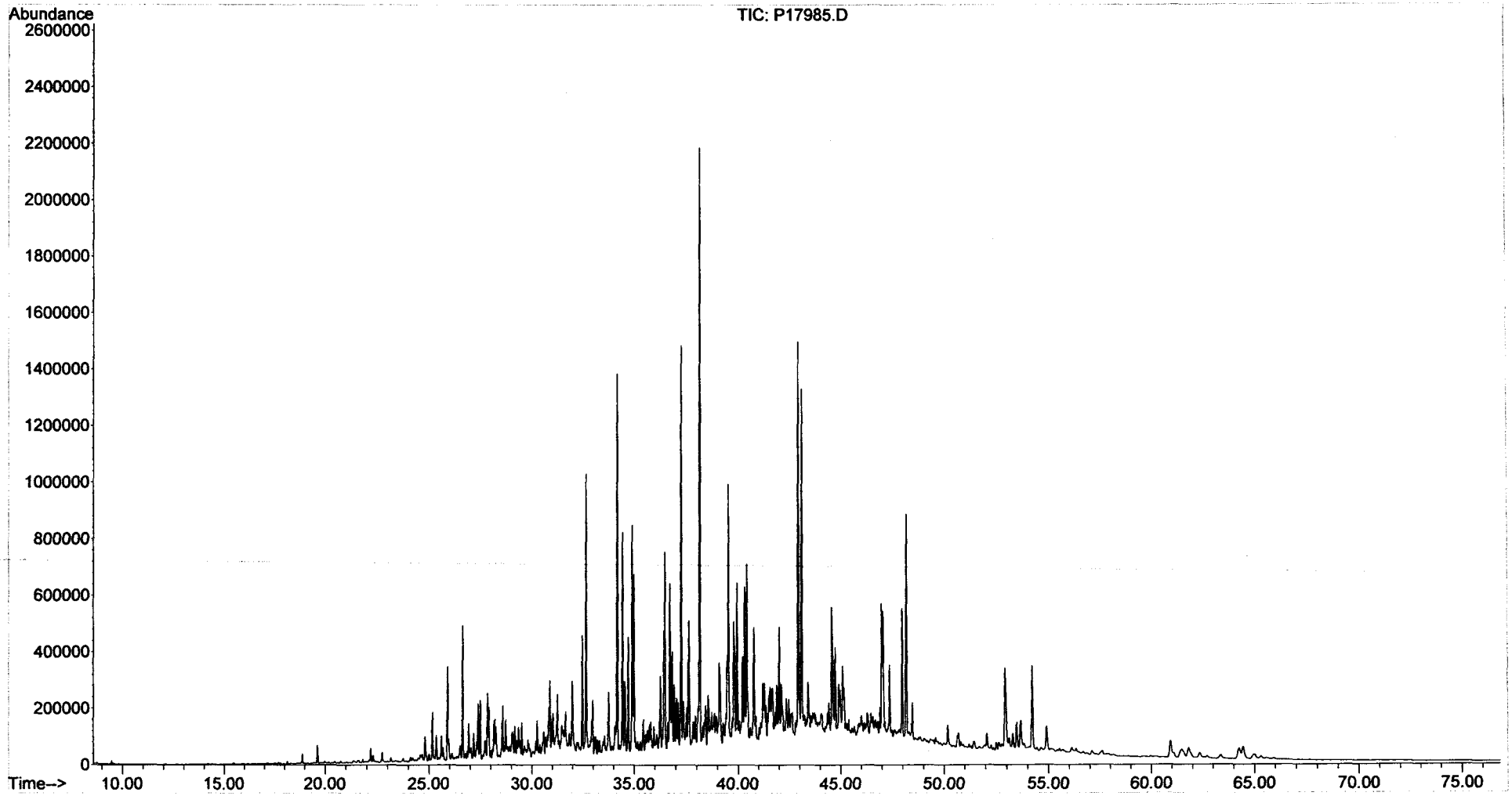
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Naphthobenzothiophene-2,1-	42.00	234	444021	1734.47	ng/mL	97
66) Naphthobenzothiophene-1,2-	42.35	234	129614	506.31	ng/mL#	30
67) Naphthobenzothiophene-2,3-	42.64	234	140980m	550.71	ng/mL	
68) C1-Naphthobenzothiophenes	43.41	248	889518m	3474.70	ng/ml	
69) C2-Naphthobenzothiophenes	44.92	262	602509m	2353.57	ng/ml	
70) C3-Naphthobenzothiophenes	47.03	276	338334m	1321.63	ng/ml	
71) C4-Naphthobenzothiophenes	48.09	290	162919m	636.41	ng/mL	
73) Benz[a]anthracene	42.94	228	2071226m	7097.64	ng/mL	
74) Chrysene	43.10	228	2179427m	7309.06	ng/mL	
75) Chrysene/Triphenylene	43.10	228	2178821m	7307.03	ng/mL	
76) C1-Chrysenes	44.59	242	2384195m	7995.78	ng/mL	
77) C2-Chrysenes	46.28	256	1367760m	4587.00	ng/mL	
78) BBF-d12 Surr BKGD	46.90	256	20516	68.80	ng/mL	100
79) C3-Chrysenes	47.88	270	775270m	2599.99	ng/mL	
80) C4-Chrysenes	49.36	284	247985m	831.66	ng/mL	
82) Benzo[b]fluoranthene	46.99	252	1000851	3339.52	ng/mL	100
83) Benzo[k]fluoranthene	47.07	252	1097494	3520.01	ng/mL	99
84) Benzo[a]fluoranthene	47.37	252	512051m	1642.31	ng/mL	
85) Benzo[e]pyrene	47.98	252	987490	3403.25	ng/mL	97
86) Benzo[a]pyrene	48.18	252	1688929m	5882.89	ng/mL	
87) Perylene	48.48	252	282446	1006.47	ng/mL	94
88) Indeno[1,2,3-cd]pyrene	52.94	276	739566m	2927.29	ng/mL	
89) Dibenz[a,h]anthracene	52.99	278	205650m	798.57	ng/mL	
90) Benzo[g,h,i]perylene	54.23	276	834787	2867.41	ng/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17985.D
Acq On : 4 Feb 2006 11:39 pm
Operator : AC
Sample : 0601070-03
Misc : 1X
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 12 17:40:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-55 (1.5-2.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-03**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	01/26/06	02/02/06	43.7	10.67	4.76	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**570**	30,31-Bishomohopane-22S	**1000**
C24 Tricyclic Terpane	**330**	30,31-Bishomohopane-22R	**640**
C25 Tricyclic Terpane	**350**	30,31-Trishomohopane-22S	**570**
C24 Tetracyclic Terpane	**380**	30,31-Trishomohopane-22R	**380**
C26 Tricyclic Terpane-22S	**150**	Tetrakishomohopane-22S	**350**
C26 Tricyclic Terpane-22R	**150**	Tetrakishomohopane-22R	**230**
C28 Tricyclic Terpane-22S	**170**	Pentakishomohopane-22S	**320**
C28 Tricyclic Terpane-22R	**190**	Pentakishomohopane-22R	**230**
C29 Tricyclic Terpane-22S	**210**	13b(H),17a(H)-20S-Diacholestane	**650**
C29 Tricyclic Terpane-22R	**230**	13b(H),17a(H)-20R-Diacholestane	**380**
18a-22,29,30-Trisnorneohopane-TS	**920**	13b,17a-20S-Methyldiacholestane	**300**
C30 Tricyclic Terpane-22S	**190**	14a(H),17a(H)-20S-Cholestane	**300**
C30 Tricyclic Terpane-22R	**170**	14a(H),17a(H)-20R-Cholestane	**1300**
17a(H)-22,29,30-Trisnorhopane-TM	**920**	13b,17a-20R-Ethyldiacholestane	**230**
17a/b,21b/a 28,30-Bisnorhopane	**220**	13a,17b-20S-Ethyldiacholestane	**73**
17a(H),21b(H)-25-Norhopane	**82**	14a,17a-20S-Methylcholestane	**280**
30-Norhopane	**3000**	14a,17a-20R-Methylcholestane	**500**
18a(H)-30-Norneohopane-C29Ts	**730**	14a(H),17a(H)-20S-Ethylcholestane	**490**
17a(H)-Diahopane	**140**	14a(H),17a(H)-20R-Ethylcholestane	**670**
30-Normoretane	**420**	14b(H),17b(H)-20R-Cholestane	**660**
18a(H)&18b(H)-Oleananes	**330**	14b(H),17b(H)-20S-Cholestane	**660**
Hopane	**3800**	14b,17b-20R-Methylcholestane	**630**
Moretane	**400**	14b,17b-20S-Methylcholestane	**760**
30-Homohopane-22S	**1400**	14b(H),17b(H)-20R-Ethylcholestane	**1200**
30-Homohopane-22R	**1200**	14b(H),17b(H)-20S-Ethylcholestane	**740**

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	57	50-130

N/A - Not Applicable

02/14/06 21:31

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34927.D
Acq On : 2 Feb 2006 12:29 am
Operator : AC
Sample : 0601070-03
Misc : 1X
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 14 12:42:32 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

ahs 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.41	240	104605	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
117) 5B(H)Cholane - Surr	43.92	217	105364	2396.66	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	239.67%#	

✓ MAL 2/15/6

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.48	191	337375m	3753.11	ng/mL	
84) Hopane (T19)	52.48	191	338296m	3763.36	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.93	191	50035m	556.61	ng/ml	
86) C24 Tricyclic Terpane (T5)	41.66	191	29074	323.43	ng/ml	100
87) C25 Tricyclic Terpane (T6)	43.15	191	31187m	346.94	ng/ml	
88) C24 Tetracyclic Terpane (T	44.48	191	33516	372.85	ng/ml	100
89) C26 Tricyclic Terpane-22S	44.21	191	13175	146.56	ng/ml	100
90) C26 Tricyclic Terpane-22R	44.31	191	13390	148.96	ng/ml	100
91) C28 Tricyclic Terpane-22S	46.59	191	15356m	170.83	ng/ml	
92) C28 Tricyclic Terpane-22R	46.76	191	16938m	188.43	ng/ml	
93) C29 Tricyclic Terpane-22S	47.29	191	18788	209.01	ng/ml	100
94) C29 Tricyclic Terpane-22R	47.48	191	20370m	226.61	ng/ml	
95) 18a-22,29,30-Trisnorneohop	48.63	191	81247	903.83	ng/ml	100
96) C30 Tricyclic Terpane-22S	48.72	191	16372m	182.13	ng/mL	
97) C30 Tricyclic Terpane-22R	48.97	191	14615m	162.58	ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	49.19	191	81008m	901.17	ng/ml	
99) 17a/b,21b/a 28,30-Bisnorho	50.40	191	18992m	211.28	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	50.18	191	7198m	80.07	ng/ml	
101) 30-Norhopane (T15)	51.08	191	262499m	2920.16	ng/ml	
102) 18a(H)-30-Norneohopane-C29	51.20	191	63996m	711.92	ng/ml	
103) 17a(H)-Diahopane (X)	51.32	191	12656	140.79	ng/ml	100
104) 30-Normoretane (T17)	51.88	191	37179	413.60	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	52.29	191	28860m	321.05	ng/ml	
106) Moretane (T20)	53.18	191	35192m	391.49	ng/ml	
107) 30-Homohopane-22S (T21)	54.29	191	124651m	1386.67	ng/ml	
108) 30-Homohopane-22R (T22)	54.54	191	107716	1198.28	ng/ml	100
109) 30,31-Bishomohopane-22S (T	55.89	191	92734	1031.62	ng/ml	100
110) 30,31-Bishomohopane-22R (T	56.29	191	56376	627.15	ng/ml	100
111) 30,31-Trishomohopane-22S (	58.06	191	49960m	555.78	ng/ml	
112) 30,31-Trishomohopane-22R (	58.69	191	33301	370.46	ng/ml	100
113) Tetrakishomohopane-22S (T3	60.75	191	31229	347.41	ng/ml	100
114) Tetrakishomohopane-22R (T3	61.67	191	20320	226.05	ng/ml	100
115) Pentakishomohopane-22S (T3	63.97	191	28629m	318.48	ng/ml	
116) Pentakishomohopane-22R (T3	65.28	191	20490m	227.94	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	45.43	217	27824m	632.90	ng/ml	
119) 13b(H),17a(H)-20R-Diachole	45.85	217	16549	376.43	ng/ml	100
120) 13b,17a-20S-Methyldiachole	46.55	217	13018m	296.11	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	47.43	217	12835m	291.95	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.96	217	54197m	1232.79	ng/ml	
123) 13b,17a-20R-Ethyldiacholes	48.24	217	9966m	226.69	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34927.D
Acq On : 2 Feb 2006 12:29 am
Operator : AC
Sample : 0601070-03
Misc : 1X
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 14 12:42:32 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

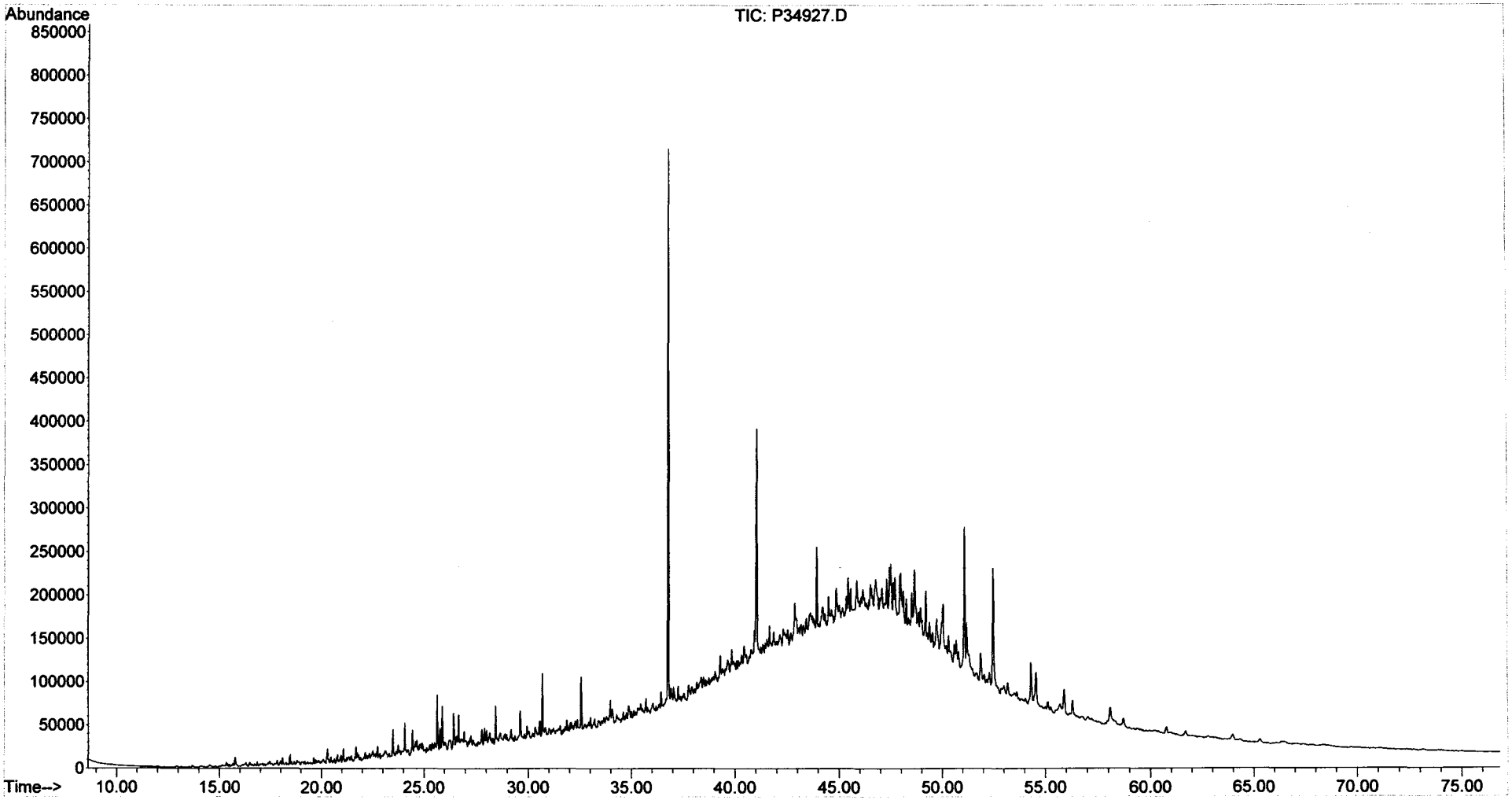
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
124) 13a,17b-20S-Ethyldiacholes	48.50	217	3136	71.33	ng/ml	100
125) 14a,17a-20S-Methylcholesta	48.66	217	11922m	271.18	ng/ml	
126) 14a,17a-20R-Methylcholesta	49.39	217	21565m	490.53	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	49.75	217	21294m	484.36	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	50.69	217	28858m	656.42	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	47.52	218	28535	649.07	ng/ml	100
130) 14b(H),17b(H)-20S-Cholesta	47.61	218	28473m	647.66	ng/ml	
131) 14b,17b-20R-Methylcholesta	48.83	218	27108m	616.61	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.93	218	32560m	740.63	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	50.01	218	49674m	1129.91	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	50.05	218	32089m	729.91	ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34927.D
Acq On : 2 Feb 2006 12:29 am
Operator : AC
Sample : 0601070-03
Misc : 1X
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 14 12:42:32 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-55 (1.5-2.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-03E**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	01/26/06	02/03/06	43.7	10.67	17.54	10	AC

Parameter	Result		Parameter	Result	
Naphthalene	62	U	Fluoranthene	**39000**	
C1-Naphthalenes	62	U	Pyrene	**57000**	
C2-Naphthalenes	62	U	C1-Fluoranthenes/Pyrenes	34	U
C3-Naphthalenes	62	U	C2-Fluoranthenes/Pyrenes	34	U
C4-Naphthalenes	62	U	C3-Fluoranthenes/Pyrenes	34	U
Biphenyl	34	U	C4-Fluoranthenes/Pyrenes	34	U
Dibenzofuran	45	U	Naphthobenzothiophenes	46	U
Acenaphthylene	68	U	C1-Naphthobenzothiophenes	46	U
Acenaphthene	43	U	C2-Naphthobenzothiophenes	46	U
Fluorene	43	U	C3-Naphthobenzothiophenes	46	U
C1-Fluorenes	43	U	C4-Naphthobenzothiophenes	46	U
C2-Fluorenes	43	U	Benz[a]anthracene	59	U
C3-Fluorenes	43	U	Chrysene/Triphenylene	41	U
Anthracene	50	U	C1-Chrysenes	41	U
Phenanthrene	54	U	C2-Chrysenes	41	U
C1-Phenanthrenes/Anthracenes	54	U	C3-Chrysenes	41	U
C2-Phenanthrenes/Anthracenes	54	U	C4-Chrysenes	41	U
C3-Phenanthrenes/Anthracenes	54	U	Benzo[b]fluoranthene	40	U
C4-Phenanthrenes/Anthracenes	54	U	Benzo[k]fluoranthene	76	U
Retene	54	U	Benzo[a]fluoranthene	76	U
Dibenzothiophene	42	U	Benzo[e]pyrene	52	U
C1-Dibenzothiophenes	42	U	Benzo[a]pyrene	52	U
C2-Dibenzothiophenes	42	U	Perylene	65	U
C3-Dibenzothiophenes	42	U	Indeno[1,2,3-cd]pyrene	90	U
C4-Dibenzothiophenes	42	U	Dibenz[a,h]anthracene	71	U
Benzo(b)fluorene	38	U	Benzo[g,h,i]perylene	66	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	72	50-130
Pyrene-d10	83	50-130
Benzo[b]fluoranthene-d12	79	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 19:57

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN31\
Data File : P17933.D
Acq On : 3 Feb 2006 1:31 am
Operator : AC
Sample : 0601070-03-RE
Misc : 10X
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Feb 14 11:27:25 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/14/06

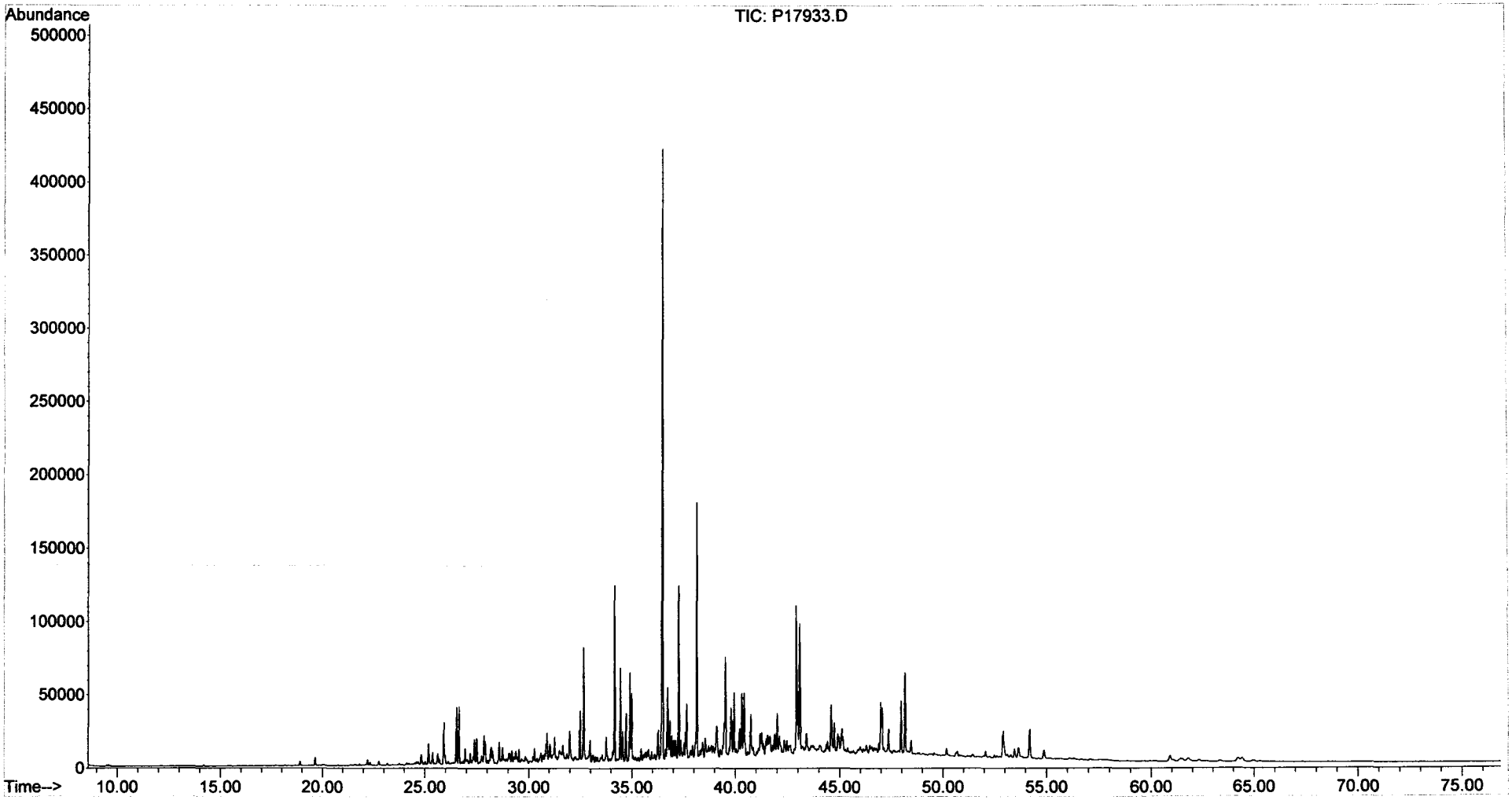
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.53	164	43288	500.00	ng/mL	-0.01
72) Chrysene-d12	42.99	240	72971	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.21	152	7608	81.98	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery =	8.20%#		
58) Pyrene-d10	38.07	212	18021	94.45	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	9.45%#		
81) Benzo[b]fluoranthene-d12	46.90	264	13070	89.94	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	8.99%#		
125) 5B(H)Cholane - Surr	43.63	217	2372	82.73	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	8.27%#		
Target Compounds						Qvalue
56) Fluoranthene	37.25	202	239522m	1027.38	ng/mL	
59) Pyrene	38.15	202	357672	1508.42	ng/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN31\
Data File : P17933.D
Acq On : 3 Feb 2006 1:31 am
Operator : AC
Sample : 0601070-03-RE
Misc : 10X
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Feb 14 11:27:25 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-47 (1.5-2.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-04**
Associated Blank: **SS020606B06**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	02/06/06	02/09/06	53.9	5.08	116.67	10	AC

Parameter	Result		Parameter	Result
Naphthalene	6300000	E	Fluoranthene	720000
C1-Naphthalenes	4100000		Pyrene	1200000
C2-Naphthalenes	2400000		C1-Fluoranthenes/Pyrenes	1800000
C3-Naphthalenes	1000000		C2-Fluoranthenes/Pyrenes	930000
C4-Naphthalenes	360000		C3-Fluoranthenes/Pyrenes	420000
Biphenyl	320000		C4-Fluoranthenes/Pyrenes	140000
Dibenzofuran	100000		Naphthobenzothiophenes	200000
Acenaphthylene	440000		C1-Naphthobenzothiophenes	270000
Acenaphthene	1500000		C2-Naphthobenzothiophenes	180000
Fluorene	920000		C3-Naphthobenzothiophenes	94000
C1-Fluorenes	720000		C4-Naphthobenzothiophenes	43000
C2-Fluorenes	580000		Benz[a]anthracene	450000
C3-Fluorenes	280000		Chrysene/Triphenylene	500000
Anthracene	1100000		C1-Chrysenes	640000
Phenanthrene	2600000		C2-Chrysenes	400000
C1-Phenanthrenes/Anthracenes	2500000		C3-Chrysenes	240000
C2-Phenanthrenes/Anthracenes	1500000		C4-Chrysenes	83000
C3-Phenanthrenes/Anthracenes	620000		Benzo[b]fluoranthene	160000
C4-Phenanthrenes/Anthracenes	190000		Benzo[k]fluoranthene	180000
Retene	620	U	Benzo[a]fluoranthene	110000
Dibenzothiophene	360000		Benzo[e]pyrene	180000
C1-Dibenzothiophenes	520000		Benzo[a]pyrene	330000
C2-Dibenzothiophenes	480000		Perylene	61000
C3-Dibenzothiophenes	260000		Indeno[1,2,3-cd]pyrene	130000
C4-Dibenzothiophenes	94000		Dibenz[a,h]anthracene	39000
Benzo(b)fluorene	260000		Benzo[g,h,i]perylene	130000

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	103	50-130
Pyrene-d10	119	50-130
Benzo[b]fluoranthene-d12	105	50-130

N/A - Not Applicable
E - Estimated value, exceeds the upper limit of calibration.
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/16/06 13:46

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-47 (1.5-2.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-04**
Associated Blank: **SS020606B06**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	02/06/06	02/09/06	53.9	5.08	116.67	10	AC

Parameter	Result
Carbazole	40000

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	103	50-130
Pyrene-d10	119	50-130
Benzo[b]fluoranthene-d12	105	50-130

N/A - Not Applicable

02/16/06 13:47

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB08\
Data File : P18065.D
Acq On : 9 Feb 2006 6:49 am
Operator : AC
Sample : 0601070-04
Misc : 10X
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 12 13:29:04 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

CMS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.49	164	44035m	500.00	ng/mL	-0.02
72) Chrysene-d12	42.95	240	78362	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.18	152	1670	17.69	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery =	1.77%#		
58) Pyrene-d10	38.02	212	3969m	20.45	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery =	2.04%#		
81) Benzo[b]fluoranthene-d12	46.85	264	2802	17.96	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery =	1.80%#		
125) 5B(H)Cholane - Surr	43.60	217	700m	22.73	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	2.27%#		

Target Compounds						Qvalue
9) Naphthalene	19.62	128	3313160	14732.92	ng/mL#	E 100
10) C1-Naphthalenes	22.31	142	2180767m	9697.41	ng/mL	
11) C2-Naphthalenes	25.14	156	1290846m	5740.12	ng/mL	
12) C3-Naphthalenes	27.48	170	535980m	2383.39	ng/mL	
13) C4-Naphthalenes	30.25	184	187640m	834.40	ng/mL	
15) 2-Methylnaphthalene	22.31	142	1340534	9416.12	ng/mL#	100
16) 1-Methylnaphthalene	22.73	142	838288	6254.54	ng/mL#	100
22) Biphenyl	24.18	154	132802	750.31	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.80	156	145700m	1233.18	ng/mL	
24) Dibenzofuran	27.26	168	47051m	236.63	ng/mL	
25) Acenaphthylene	25.89	152	224902m	1043.03	ng/mL	
26) Acenaphthene	26.62	153	470442	3512.37	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.18	170	38683m	364.72	ng/mL	
28) Fluorene	28.64	166	325941m	2169.85	ng/mL	
29) C1-Fluorenes	30.86	180	252658m	1681.99	ng/mL	
30) C2-Fluorenes	33.04	194	205237m	1366.30	ng/mL	
31) C3-Fluorenes	35.03	208	96936m	645.32	ng/mL	
32) Dibenzothiophene	31.95	184	188899	852.73	ng/mL#	92
37) C1-Dibenzothiophenes	33.73	198	268121m	1210.36	ng/mL	
38) C2-Dibenzothiophenes	35.78	212	247745m	1118.38	ng/mL	
39) C3-Dibenzothiophenes	37.22	226	137753m	621.85	ng/mL	
40) C4-Dibenzothiophenes	38.90	240	48599m	219.39	ng/mL	
41) Phenanthrene	32.45	178	1337889	6006.46	ng/mL	99
47) C1-Phenanthrenes/Anthracen	34.52	192	1285680m	5772.07	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.69	206	791376m	3552.89	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.52	220	323208m	1451.04	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.72	234	98762m	443.39	ng/mL	
53) Anthracene	32.62	178	516224	2504.90	ng/mL	99
54) Carbazole	33.29	167	18086	94.82	ng/mL#	87
55) 1-Methylphenanthrene	34.95	192	213733	1401.38	ng/mL	99
56) Fluoranthene	37.22	202	402490m	1697.11	ng/mL	
57) Benzo(b)fluorene	39.74	216	85522m	617.89	ng/mL	
59) Pyrene	38.10	202	672816	2789.34	ng/mL	98
60) C1-Fluoranthenes/Pyrenes	39.50	216	1024042m	4245.45	ng/mL	
61) C2-Fluoranthenes/Pyrenes	41.96	230	524960m	2176.37	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.44	244	239697m	993.73	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.69	258	76545m	317.34	ng/mL	
64) Naphthobenzothiophene	41.95	234	67075	297.24	ng/ml	98
65) Naphthobenzothiophene-2,1-	41.95	234	67075	297.24	ng/mL	97
66) Naphthobenzothiophene-1,2-	42.30	234	19700	87.30	ng/mL#	33

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB08\
Data File : P18065.D
Acq On : 9 Feb 2006 6:49 am
Operator : AC
Sample : 0601070-04
Misc : 10X
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 12 13:29:04 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

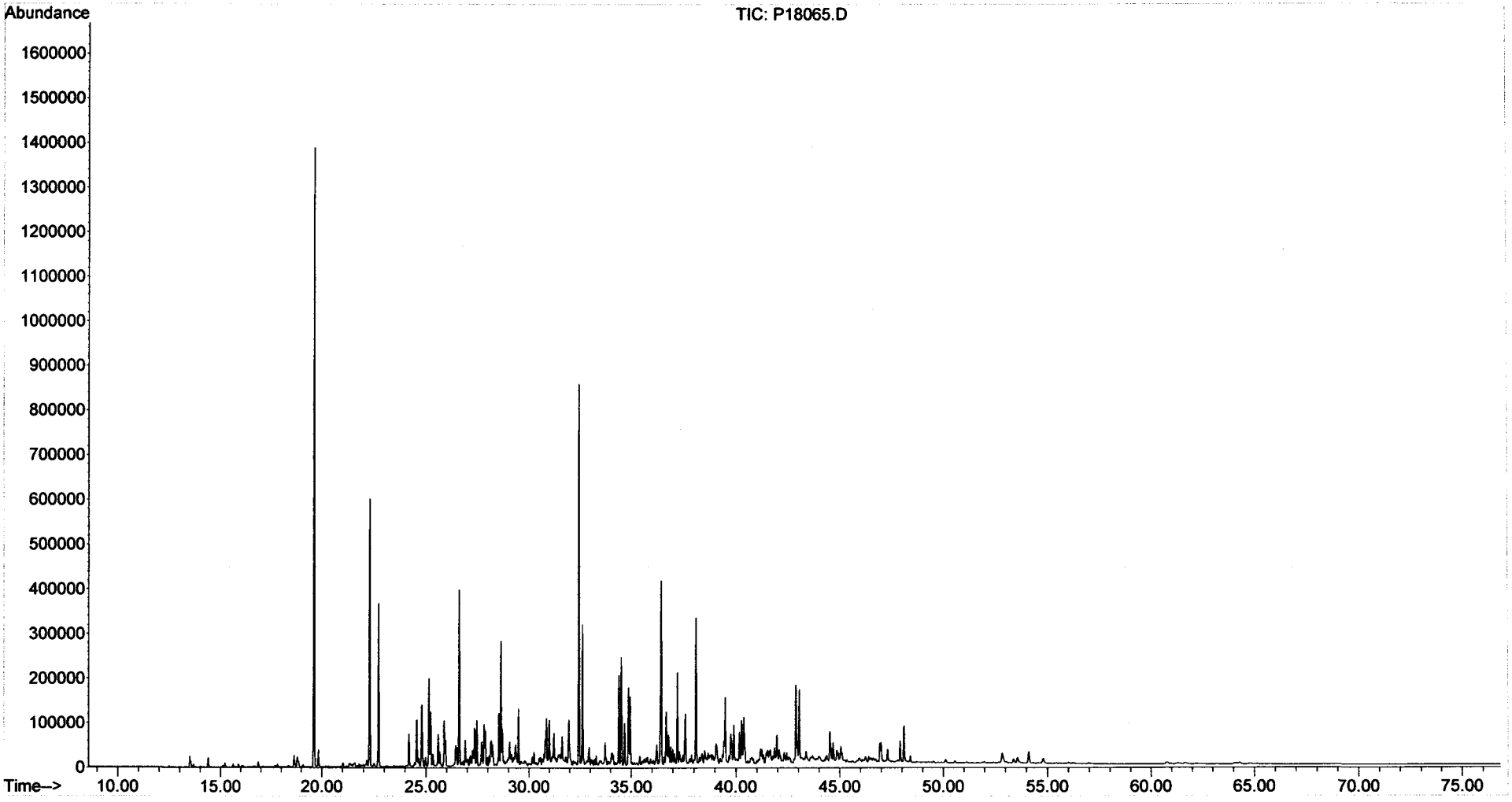
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Naphthobenzothiophene-2,3-	42.59	234	21120m	93.59	ng/mL	
68) C1-Naphthobenzothiophenes	43.35	248	141069m	625.15	ng/ml	
69) C2-Naphthobenzothiophenes	45.41	262	95619m	423.74	ng/ml	
70) C3-Naphthobenzothiophenes	46.98	276	49924m	221.24	ng/ml	
71) C4-Naphthobenzothiophenes	48.04	290	22688m	100.54	ng/mL	
73) Benz[a]anthracene	42.88	228	252255m	1057.49	ng/mL	
74) Chrysene	43.04	228	284223m	1166.08	ng/mL	
75) Chrysene/Triphenylene	43.04	228	284116m	1165.64	ng/mL	
76) C1-Chrysenes	44.53	242	367389m	1507.29	ng/mL	
77) C2-Chrysenes	46.24	256	228067m	935.69	ng/mL	
78) BBF-d12 Surr BKGD	46.85	256	1044m	4.28	ng/mL	
79) C3-Chrysenes	47.82	270	134948m	553.65	ng/mL	
80) C4-Chrysenes	49.38	284	47471m	194.76	ng/mL	
82) Benzo[b]fluoranthene	46.93	252	89007	363.32	ng/mL	99
83) Benzo[k]fluoranthene	46.99	252	106459	417.71	ng/mL	97
84) Benzo[a]fluoranthene	47.31	252	65129m	255.54	ng/mL	
85) Benzo[e]pyrene	47.92	252	97255	410.04	ng/mL	92
86) Benzo[a]pyrene	48.11	252	181045	771.46	ng/mL	95
87) Perylene	48.42	252	33080	144.21	ng/mL	91
88) Indeno[1,2,3-cd]pyrene	52.84	276	61826m	299.37	ng/mL	
89) Dibenz[a,h]anthracene	52.89	278	19425m	92.28	ng/mL	
90) Benzo[g,h,i]perylene	54.10	276	74687	313.84	ng/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB08\
Data File : P18065.D
Acq On : 9 Feb 2006 6:49 am
Operator : AC
Sample : 0601070-04
Misc : 10X
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 12 13:29:04 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-47 (1.5-2.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-04**
Associated Blank: **SS020606B06**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	02/06/06	02/11/06	53.9	5.08	11.67	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**980**	30,31-Bishomohopane-22S	**1400**
C24 Tricyclic Terpane	**610**	30,31-Bishomohopane-22R	**1100**
C25 Tricyclic Terpane	**580**	30,31-Trishomohopane-22S	**760**
C24 Tetracyclic Terpane	**1000**	30,31-Trishomohopane-22R	**520**
C26 Tricyclic Terpane-22S	**240**	Tetrakishomohopane-22S	**450**
C26 Tricyclic Terpane-22R	**240**	Tetrakishomohopane-22R	**300**
C28 Tricyclic Terpane-22S	**300**	Pentakishomohopane-22S	**260**
C28 Tricyclic Terpane-22R	**290**	Pentakishomohopane-22R	**180**
C29 Tricyclic Terpane-22S	**320**	13b(H),17a(H)-20S-Diacholestane	**1300**
C29 Tricyclic Terpane-22R	**320**	13b(H),17a(H)-20R-Diacholestane	**740**
18a-22,29,30-Trisnorneohopane-TS	**3400**	13b,17a-20S-Methyldiacholestane	**550**
C30 Tricyclic Terpane-22S	**240**	14a(H),17a(H)-20S-Cholestane	**720**
C30 Tricyclic Terpane-22R	**190**	14a(H),17a(H)-20R-Cholestane	**2000**
17a(H)-22,29,30-Trisnorhopane-TM	**2000**	13b,17a-20R-Ethyldiacholestane	**270**
17a/b,21b/a 28,30-Bisnorhopane	**390**	13a,17b-20S-Ethyldiacholestane	**78**
17a(H),21b(H)-25-Norhopane	**120**	14a,17a-20S-Methylcholestane	**450**
30-Norhopane	**6100**	14a,17a-20R-Methylcholestane	**910**
18a(H)-30-Norneohopane-C29Ts	**3500**	14a(H),17a(H)-20S-Ethylcholestane	**700**
17a(H)-Diahopane	**750**	14a(H),17a(H)-20R-Ethylcholestane	**870**
30-Normoretane	**1200**	14b(H),17b(H)-20R-Cholestane	**930**
18a(H)&18b(H)-Oleananes	**1500**	14b(H),17b(H)-20S-Cholestane	**960**
Hopane	**10000**	14b,17b-20R-Methylcholestane	**970**
Moretane	**1300**	14b,17b-20S-Methylcholestane	**1100**
30-Homohopane-22S	**2400**	14b(H),17b(H)-20R-Ethylcholestane	**1400**
30-Homohopane-22R	**2100**	14b(H),17b(H)-20S-Ethylcholestane	**880**

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	101	50-130

N/A - Not Applicable

02/16/06 13:42

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28213.D
Acq On : 11 Feb 2006 7:10 am
Operator : AC
Sample : 0601070-04
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 14 13:28:27 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

CNS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.64	240	56260	500.00	ng/mL	0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	44.21	217	41224	1722.95	ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 172.29%#			

✓MHL 2/15/06

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.94	191	134761m	2426.66	ng/mL	
84) Hopane (T19)	52.94	191	134068m	2414.18	ng/mL	
85) C23 Tricyclic Terpane (T4)	41.22	191	12716m	228.98	ng/ml	
86) C24 Tricyclic Terpane (T5)	41.95	191	7961	143.35	ng/ml	100
87) C25 Tricyclic Terpane (T6)	43.48	191	7516m	135.34	ng/ml	
88) C24 Tetracyclic Terpane (T	44.77	191	13083	235.59	ng/ml	100
89) C26 Tricyclic Terpane-22S	44.49	191	3126	56.29	ng/ml	100
90) C26 Tricyclic Terpane-22R	44.59	191	3174	57.15	ng/ml	100
91) C28 Tricyclic Terpane-22S	46.88	191	3971	71.51	ng/ml	100
92) C28 Tricyclic Terpane-22R	47.04	191	3732m	67.20	ng/ml	
93) C29 Tricyclic Terpane-22S	47.58	191	4168	75.05	ng/ml	100
94) C29 Tricyclic Terpane-22R	47.77	191	4132m	74.41	ng/ml	
95) 18a-22,29,30-Trisnorneohop	48.98	191	43832	789.29	ng/ml	100
96) C30 Tricyclic Terpane-22S	49.05	191	3169m	57.06	ng/mL	
97) C30 Tricyclic Terpane-22R	49.30	191	2511	45.22	ng/mL	100
98) 17a(H)-22,29,30-Trisnorhop	49.55	191	26082m	469.66	ng/ml	
99) 17a/b,21b/a 28,30-Bisnorho	50.79	191	5051m	90.95	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	50.56	191	1510m	27.19	ng/ml	
101) 30-Norhopane (T15)	51.50	191	79492m	1431.42	ng/ml	
102) 18a(H)-30-Norneohopane-C29	51.60	191	45665m	822.29	ng/ml	
103) 17a(H)-Diahopane (X)	51.73	191	9822m	176.87	ng/ml	
104) 30-Normoretane (T17)	52.32	191	16204	291.79	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	52.75	191	19454m	350.31	ng/ml	
106) Moretane (T20)	53.67	191	16357m	294.54	ng/ml	
107) 30-Homohopane-22S (T21)	54.82	191	31370m	564.88	ng/ml	
108) 30-Homohopane-22R (T22)	55.07	191	26887	484.16	ng/ml	100
109) 30,31-Bishomohopane-22S (T	56.47	191	18747	337.58	ng/ml	100
110) 30,31-Bishomohopane-22R (T	56.88	191	13787	248.26	ng/ml	100
111) 30,31-Trishomohopane-22S (	58.74	191	9933	178.86	ng/ml	100
112) 30,31-Trishomohopane-22R (	59.40	191	6765	121.82	ng/ml	100
113) Tetrakishomohopane-22S (T3	61.54	191	5813	104.68	ng/ml	100
114) Tetrakishomohopane-22R (T3	62.49	191	3948	71.09	ng/ml	100
115) Pentakishomohopane-22S (T3	64.89	191	3362m	60.54	ng/ml	
116) Pentakishomohopane-22R (T3	66.27	191	2301m	41.43	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	45.71	217	7147m	298.71	ng/ml	
119) 13b(H),17a(H)-20R-Diachole	46.13	217	4185m	174.91	ng/ml	
120) 13b,17a-20S-Methyldiachole	46.83	217	3086m	128.98	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	47.72	217	4043m	168.98	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	48.27	217	11006m	459.99	ng/ml	
123) 13b,17a-20R-Ethyldiacholes	48.55	217	1509m	63.07	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28213.D
Acq On : 11 Feb 2006 7:10 am
Operator : AC
Sample : 0601070-04
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 14 13:28:27 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

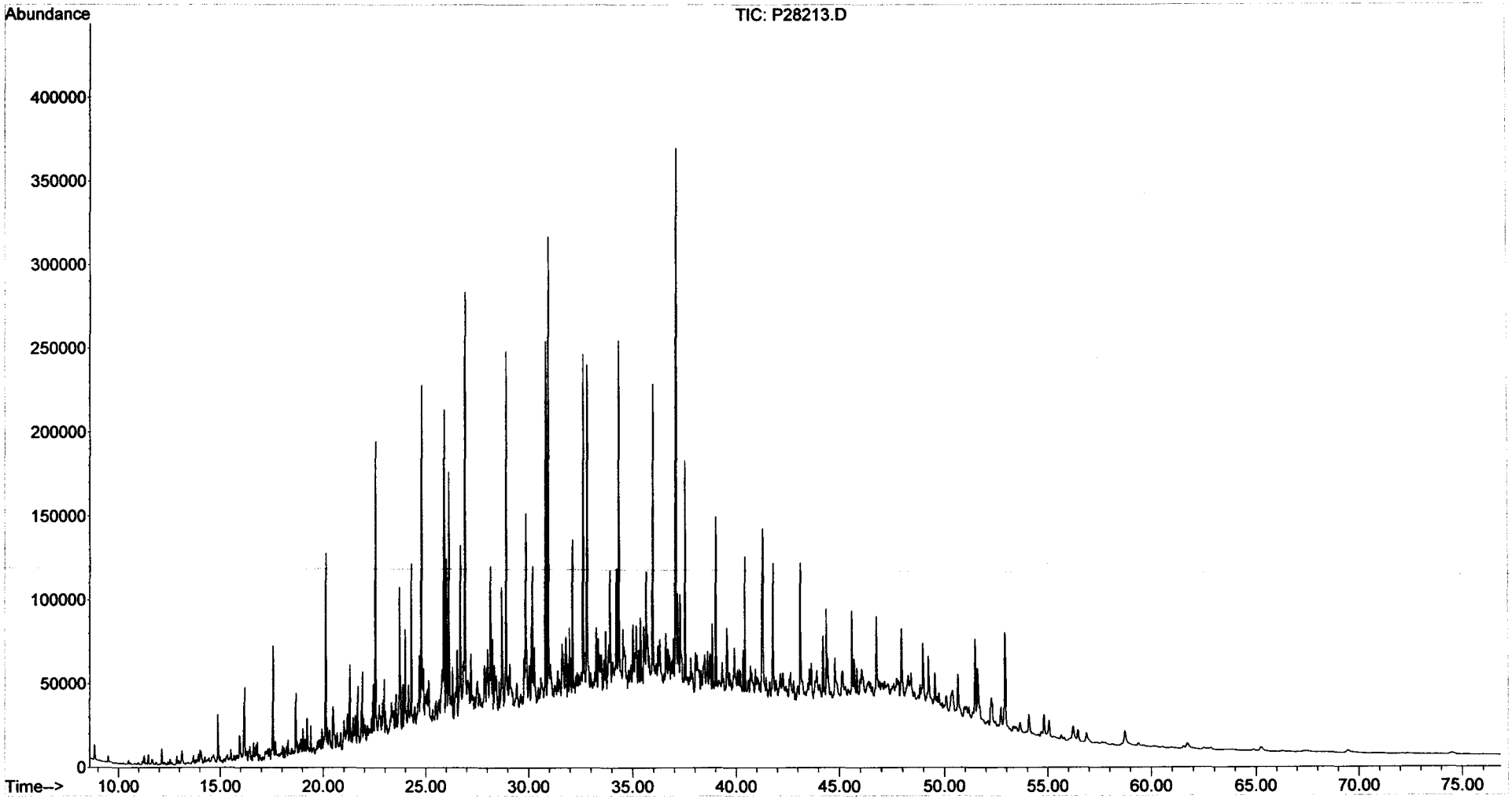
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
124) 13a,17b-20S-Ethyldiacholes	48.83	217	438	18.31	ng/ml	100
125) 14a,17a-20S-Methylcholesta	48.99	217	2502m	104.57	ng/ml	
126) 14a,17a-20R-Methylcholesta	49.75	217	5085m	212.53	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	50.10	217	3935m	164.46	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	51.07	217	4860m	203.12	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	47.81	218	5233	218.71	ng/ml	100
130) 14b(H),17b(H)-20S-Cholesta	47.91	218	5400m	225.69	ng/ml	
131) 14b,17b-20R-Methylcholesta	49.17	218	5470m	228.62	ng/ml	
132) 14b,17b-20S-Methylcholesta	49.26	218	6216m	259.80	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	50.37	218	7668m	320.48	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	50.41	218	4928m	205.96	ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28213.D
Acq On : 11 Feb 2006 7:10 am
Operator : AC
Sample : 0601070-04
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 14 13:28:27 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-47 (1.5-2.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-04E**
Associated Blank: **SS020606B06**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	02/06/06	02/09/06	53.9	5.08	116.67	100	AC

Parameter	Result		Parameter	Result	
Naphthalene	**5600000**		Fluoranthene	4300	U
C1-Naphthalenes	7000	U	Pyrene	3800	U
C2-Naphthalenes	7000	U	C1-Fluoranthenes/Pyrenes	3800	U
C3-Naphthalenes	7000	U	C2-Fluoranthenes/Pyrenes	3800	U
C4-Naphthalenes	7000	U	C3-Fluoranthenes/Pyrenes	3800	U
Biphenyl	3900	U	C4-Fluoranthenes/Pyrenes	3800	U
Dibenzofuran	5100	U	Naphthobenzothiophenes	5200	U
Acenaphthylene	7700	U	C1-Naphthobenzothiophenes	5200	U
Acenaphthene	4900	U	C2-Naphthobenzothiophenes	5200	U
Fluorene	4900	U	C3-Naphthobenzothiophenes	5200	U
C1-Fluorenes	4900	U	C4-Naphthobenzothiophenes	5200	U
C2-Fluorenes	4900	U	Benz[a]anthracene	6700	U
C3-Fluorenes	4900	U	Chrysene/Triphenylene	4600	U
Anthracene	5700	U	C1-Chrysenes	4600	U
Phenanthrene	6200	U	C2-Chrysenes	4600	U
C1-Phenanthrenes/Anthracenes	6200	U	C3-Chrysenes	4600	U
C2-Phenanthrenes/Anthracenes	6200	U	C4-Chrysenes	4600	U
C3-Phenanthrenes/Anthracenes	6200	U	Benzo[b]fluoranthene	4500	U
C4-Phenanthrenes/Anthracenes	6200	U	Benzo[k]fluoranthene	8600	U
Retene	6200	U	Benzo[a]fluoranthene	8600	U
Dibenzothiophene	4700	U	Benzo[e]pyrene	5800	U
C1-Dibenzothiophenes	4700	U	Benzo[a]pyrene	5900	U
C2-Dibenzothiophenes	4700	U	Perylene	7400	U
C3-Dibenzothiophenes	4700	U	Indeno[1,2,3-cd]pyrene	10000	U
C4-Dibenzothiophenes	4700	U	Dibenz[a,h]anthracene	8100	U
Benzo(b)fluorene	4300	U	Benzo[g,h,i]perylene	7500	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	92	50-130
Benzo[b]fluoranthene-d12	88	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/16/06 13:45

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB08\
Data File : P18061.D
Acq On : 9 Feb 2006 3:45 am
Operator : AC
Sample : 0601070-04-RE
Misc : 100X
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 13:45:12 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

CMS 2/14/06

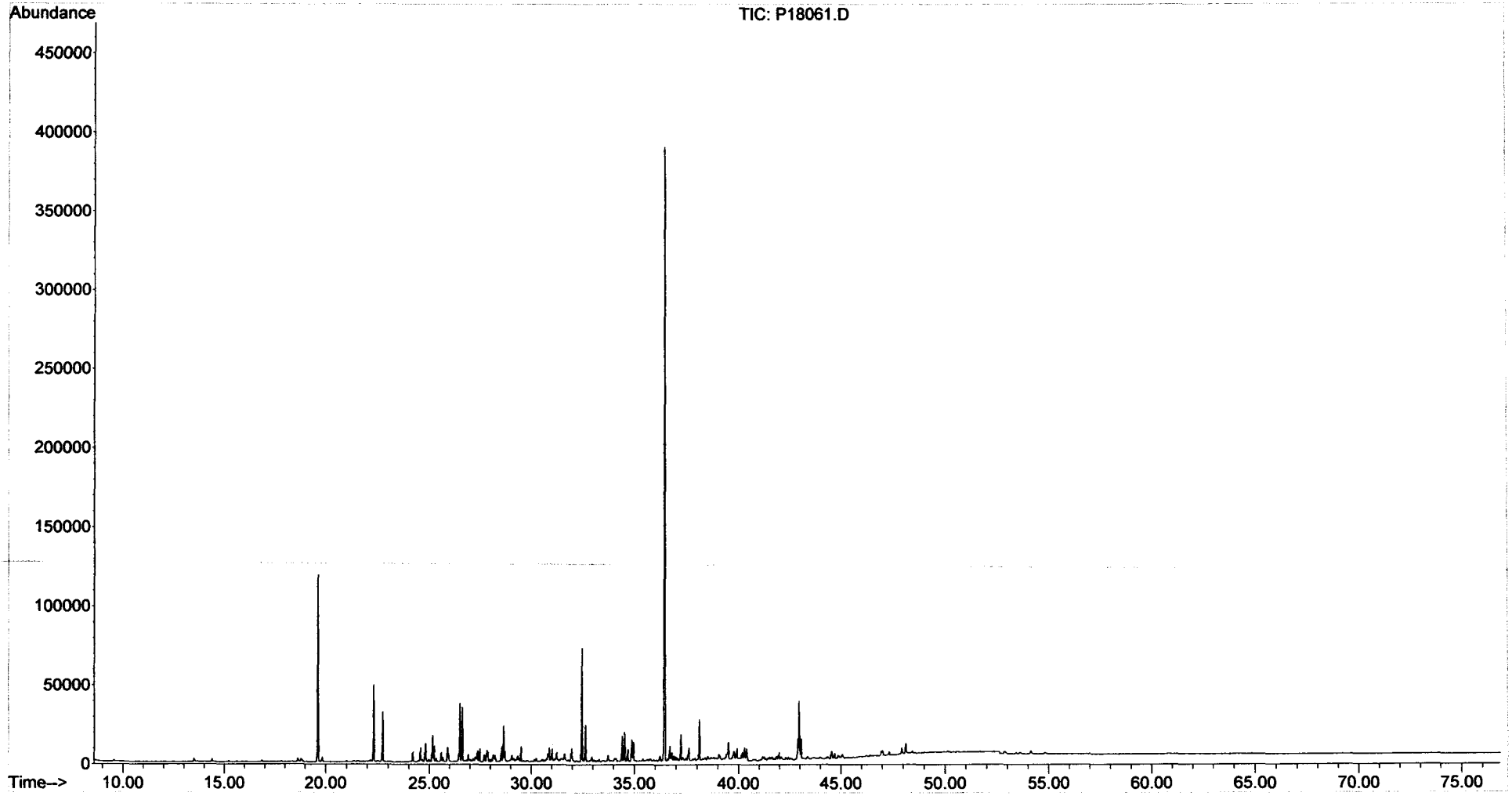
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.49	164	42778m	500.00	ng/mL	-0.02
72) Chrysene-d12	42.95	240	72949	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.18	152	125m	1.36	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.14%#	
58) Pyrene-d10	38.04	212	297m	1.58	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.16%#	
81) Benzo[b]fluoranthene-d12	46.85	264	219m	1.51	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.15%#	
125) 5B(H)Cholane - Surr	0.00	217	0	0.00	ng/ml	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
Target Compounds						Qvalue
9) Naphthalene	19.61	128	288521	1320.69	ng/mL#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB08\
Data File : P18061.D
Acq On : 9 Feb 2006 3:45 am
Operator : AC
Sample : 0601070-04-RE
Misc : 100X
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 13:45:12 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-49 (10-11)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-05**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	01/26/06	02/03/06	87.2	5.75	15.87	10	AC

Parameter	Result		Parameter	Result
Naphthalene	1100000	E	Fluoranthene	150000
C1-Naphthalenes	640000	E	Pyrene	210000
C2-Naphthalenes	260000		C1-Fluoranthenes/Pyrenes	180000
C3-Naphthalenes	66000		C2-Fluoranthenes/Pyrenes	49000
C4-Naphthalenes	16000		C3-Fluoranthenes/Pyrenes	13000
Biphenyl	52000		C4-Fluoranthenes/Pyrenes	3800
Dibenzofuran	20000		Naphthobenzothiophenes	22000
Acenaphthylene	110000		C1-Naphthobenzothiophenes	16000
Acenaphthene	230000		C2-Naphthobenzothiophenes	6100
Fluorene	160000		C3-Naphthobenzothiophenes	2600
C1-Fluorenes	64000		C4-Naphthobenzothiophenes	870
C2-Fluorenes	28000		Benz[a]anthracene	89000
C3-Fluorenes	12000		Chrysene/Triphenylene	75000
Anthracene	140000		C1-Chrysenes	54000
Phenanthrene	460000	E	C2-Chrysenes	18000
C1-Phenanthrenes/Anthracenes	260000		C3-Chrysenes	6600
C2-Phenanthrenes/Anthracenes	97000		C4-Chrysenes	2000
C3-Phenanthrenes/Anthracenes	25000		Benzo[b]fluoranthene	32000
C4-Phenanthrenes/Anthracenes	5100		Benzo[k]fluoranthene	38000
Retene	46	U	Benzo[a]fluoranthene	18000
Dibenzothiophene	49000		Benzo[e]pyrene	33000
C1-Dibenzothiophenes	43000		Benzo[a]pyrene	64000
C2-Dibenzothiophenes	27000		Perylene	9900
C3-Dibenzothiophenes	11000		Indeno[1,2,3-cd]pyrene	27000
C4-Dibenzothiophenes	2800		Dibenz[a,h]anthracene	7100
Benzo(b)fluorene	32000		Benzo[g,h,i]perylene	26000

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	87	50-130
Benzo[b]fluoranthene-d12	83	50-130

N/A - Not Applicable
E - Estimated value, exceeds the upper limit of calibration.
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 19:58

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-49 (10-11)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-05**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	01/26/06	02/03/06	87.2	5.75	15.87	10	AC

Parameter	Result
Carbazole	4300

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	87	50-130
Benzo[b]fluoranthene-d12	83	50-130

N/A - Not Applicable

02/14/06 19:58

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN31\
Data File : P17937.D
Acq On : 3 Feb 2006 4:38 am
Operator : AC
Sample : 0601070-05
Misc : 10X
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Feb 12 14:38:18 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

CMS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.53	164	45616m	500.00	ng/mL	-0.01
72) Chrysene-d12	42.99	240	75300	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.21	152	9789	100.10	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 10.01%#			
58) Pyrene-d10	38.07	212	22014	109.49	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 10.95%#			
81) Benzo[b]fluoranthene-d12	46.90	264	15727	104.88	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 10.49%#			
125) 5B(H)Cholane - Surr	43.63	217	2794	94.43	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 9.44%#			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	19.67	128	8392372	36025.66	ng/mL# E	100
10) C1-Naphthalenes	22.34	142	4724664m	20281.41	ng/mL E	
11) C2-Naphthalenes	25.18	156	1941538m	8334.38	ng/mL	
12) C3-Naphthalenes	27.52	170	486384m	2087.88	ng/mL	
13) C4-Naphthalenes	30.28	184	115530m	495.93	ng/mL	
15) 2-Methylnaphthalene	22.34	142	2996970	20321.57	ng/mL# E	100
16) 1-Methylnaphthalene	22.77	142	1718794	12379.60	ng/mL# E	100
22) Biphenyl	24.21	154	302849	1651.75	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.83	156	242880m	1984.45	ng/mL	
24) Dibenzofuran	27.30	168	126608m	614.68	ng/mL	
25) Acenaphthylene	25.92	152	785020m	3514.51	ng/mL	
26) Acenaphthene	26.67	153	997599	7190.03	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.21	170	37865m	344.63	ng/mL	
28) Fluorene	28.67	166	776228m	4988.40	ng/mL	
29) C1-Fluorenes	30.90	180	315940m	2030.38	ng/mL	
30) C2-Fluorenes	33.08	194	136780m	879.01	ng/mL	
31) C3-Fluorenes	35.73	208	61060m	392.40	ng/mL	
32) Dibenzothiophene	31.99	184	352848	1537.63	ng/mL	95
36) OTP	34.16	198	2340m	10.20	ng/mL	
37) C1-Dibenzothiophenes	33.76	198	316200m	1377.92	ng/mL	
38) C2-Dibenzothiophenes	35.46	212	193593m	843.63	ng/mL	
39) C3-Dibenzothiophenes	37.27	226	77622m	338.26	ng/mL	
40) C4-Dibenzothiophenes	38.95	240	20223m	88.13	ng/mL	
41) Phenanthrene	32.50	178	3345358	14498.47	ng/mL E	100
47) C1-Phenanthrenes/Anthracen	34.57	192	1871830m	8112.33	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.72	206	704593m	3053.64	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.57	220	182856m	792.48	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.77	234	36956m	160.16	ng/mL	
53) Anthracene	32.67	178	968894	4538.46	ng/mL	100
54) Carbazole	33.33	167	26642	134.84	ng/mL#	88
55) 1-Methylphenanthrene	35.00	192	276526	1750.25	ng/mL	96
56) Fluoranthene	37.27	202	1165050m	4742.19	ng/mL	
57) Benzo(b)fluorene	39.78	216	142952m	997.02	ng/mL	
59) Pyrene	38.15	202	1642259	6572.46	ng/mL	100
60) C1-Fluoranthenes/Pyrenes	39.55	216	1428712m	5717.83	ng/mL	
61) C2-Fluoranthenes/Pyrenes	41.21	230	386605m	1547.23	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.49	244	100954m	404.03	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.72	258	30056m	120.29	ng/mL	
64) Naphthobenzothiophene	42.00	234	101618	434.71	ng/ml	98
65) Naphthobenzothiophene-2,1-	42.00	234	101618	434.71	ng/mL	97

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN31\
Data File : P17937.D
Acq On : 3 Feb 2006 4:38 am
Operator : AC
Sample : 0601070-05
Misc : 10X
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Feb 12 14:38:18 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

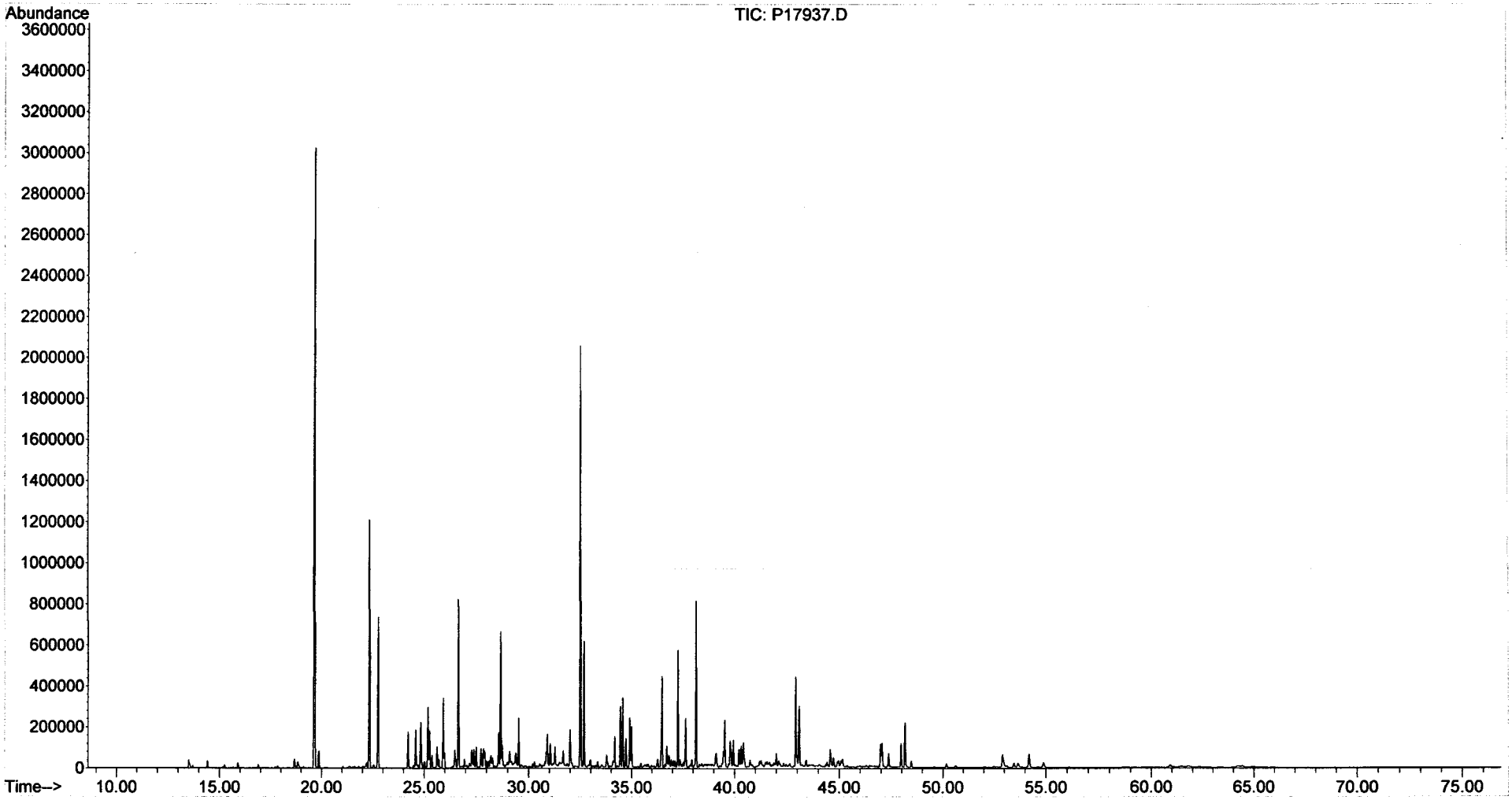
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Naphthobenzothiophene-1,2-	42.35	234	26353	112.74	ng/mL#	29
67) Naphthobenzothiophene-2,3-	42.64	234	36804m	157.44	ng/mL	
68) C1-Naphthobenzothiophenes	43.40	248	116787m	499.61	ng/ml	
69) C2-Naphthobenzothiophenes	44.91	262	44761m	191.48	ng/ml	
70) C3-Naphthobenzothiophenes	46.80	276	19119m	81.79	ng/ml	
71) C4-Naphthobenzothiophenes	49.58	290	6457m	27.62	ng/mL	
73) Benz[a]anthracene	42.93	228	642860m	2804.55	ng/mL	
74) Chrysene	43.09	228	556182m	2374.63	ng/mL	
75) Chrysene/Triphenylene	43.09	228	553766m	2364.32	ng/mL	
76) C1-Chrysenes	44.58	242	395605m	1689.05	ng/mL	
77) C2-Chrysenes	46.28	256	132756m	566.81	ng/mL	
78) BBF-d12 Surr BKGD	46.90	256	488m	2.08	ng/mL	
79) C3-Chrysenes	47.87	270	48563m	207.34	ng/mL	
80) C4-Chrysenes	48.86	284	15077m	64.37	ng/mL	
82) Benzo[b]fluoranthene	46.98	252	236493	1004.60	ng/mL	100
83) Benzo[k]fluoranthene	47.05	252	291348	1189.64	ng/mL	98
84) Benzo[a]fluoranthene	47.36	252	138430m	565.24	ng/mL	
85) Benzo[e]pyrene	47.97	252	239155	1049.30	ng/mL	98
86) Benzo[a]pyrene	48.16	252	458557	2033.45	ng/mL	98
87) Perylene	48.47	252	69195	313.91	ng/mL	97
88) Indeno[1,2,3-cd]pyrene	52.91	276	167421m	843.64	ng/mL	
89) Dibenz[a,h]anthracene	52.96	278	45519m	225.03	ng/mL	
90) Benzo[g,h,i]perylene	54.19	276	189165	827.21	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN31\
Data File : P17937.D
Acq On : 3 Feb 2006 4:38 am
Operator : AC
Sample : 0601070-05
Misc : 10X
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Feb 12 14:38:18 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-49 (10-11)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-05**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	01/26/06	02/02/06	87.2	5.75	2.11	1	AC

Parameter	Result		Parameter	Result	
C23 Tricyclic Terpane	**44**		30,31-Bishomohopane-22S	**34**	
C24 Tricyclic Terpane	**27**		30,31-Bishomohopane-22R	**10**	
C25 Tricyclic Terpane	**20**		30,31-Trishomohopane-22S	**8.4**	
C24 Tetracyclic Terpane	**18**		30,31-Trishomohopane-22R	**5.5**	
C26 Tricyclic Terpane-22S	**8.3**		Tetrakishomohopane-22S	**6.9**	
C26 Tricyclic Terpane-22R	**7.2**		Tetrakishomohopane-22R	1.2	U
C28 Tricyclic Terpane-22S	**6.3**		Pentakishomohopane-22S	1.2	U
C28 Tricyclic Terpane-22R	**6.8**		Pentakishomohopane-22R	1.2	U
C29 Tricyclic Terpane-22S	**7.7**		13b(H),17a(H)-20S-Diacholestane	**32**	
C29 Tricyclic Terpane-22R	**6.4**		13b(H),17a(H)-20R-Diacholestane	**16**	
18a-22,29,30-Trisnorneohopane-TS	**36**		13b,17a-20S-Methyldiacholestane	**9.2**	
C30 Tricyclic Terpane-22S	**5.1**		14a(H),17a(H)-20S-Cholestane	**11**	
C30 Tricyclic Terpane-22R	**3.5**	J	14a(H),17a(H)-20R-Cholestane	**37**	
17a(H)-22,29,30-Trisnorhopane-TM	**30**		13b,17a-20R-Ethyldiacholestane	**6.4**	
17a/b,21b/a 28,30-Bisnorhopane	**7.5**		13a,17b-20S-Ethyldiacholestane	1.2	U
17a(H),21b(H)-25-Norhopane	**4.1**	J	14a,17a-20S-Methylcholestane	**5.3**	
30-Norhopane	**70**		14a,17a-20R-Methylcholestane	**14**	
18a(H)-30-Norneohopane-C29Ts	**32**		14a(H),17a(H)-20S-Ethylcholestane	**11**	
17a(H)-Diahopane	**9.9**		14a(H),17a(H)-20R-Ethylcholestane	**15**	
30-Normoretane	**13**		14b(H),17b(H)-20R-Cholestane	**17**	
18a(H)&18b(H)-Oleananes	**13**		14b(H),17b(H)-20S-Cholestane	**16**	
Hopane	**110**		14b,17b-20R-Methylcholestane	**12**	
Moretane	**15**		14b,17b-20S-Methylcholestane	**15**	
30-Homohopane-22S	**28**		14b(H),17b(H)-20R-Ethylcholestane	**22**	
30-Homohopane-22R	**22**		14b(H),17b(H)-20S-Ethylcholestane	**12**	

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	96	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 21:31

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34929.D
Acq On : 2 Feb 2006 3:30 am
Operator : AC
Sample : 0601070-05
Misc : 1X
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 14 12:48:14 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

AW 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.42	240	90901	500.00	ng/mL	0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.92	217	348270	9116.20	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 911.62%#			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.45	191	20303m	259.91	ng/mL	
84) Hopane (T19)	52.45	191	20137m	257.78	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.93	191	8150m	104.33	ng/ml	
86) C24 Tricyclic Terpane (T5)	41.66	191	4955	63.43	ng/ml	100
87) C25 Tricyclic Terpane (T6)	43.18	191	3738m	47.85	ng/ml	
88) C24 Tetracyclic Terpane (T	44.47	191	3442	44.06	ng/ml	100
89) C26 Tricyclic Terpane-22S	44.20	191	1544	19.77	ng/ml	100
90) C26 Tricyclic Terpane-22R	44.30	191	1337m	17.12	ng/ml	
91) C28 Tricyclic Terpane-22S	46.57	191	1166m	14.93	ng/ml	
92) C28 Tricyclic Terpane-22R	46.74	191	1269m	16.25	ng/ml	
93) C29 Tricyclic Terpane-22S	47.26	191	1421	18.19	ng/ml	100
94) C29 Tricyclic Terpane-22R	47.46	191	1188	15.21	ng/ml	100
95) 18a-22,29,30-Trisnorneohop	48.61	191	6628m	84.85	ng/ml	
96) C30 Tricyclic Terpane-22S	48.70	191	944	12.08	ng/mL	100
97) C30 Tricyclic Terpane-22R	48.94	191	646	8.27	ng/mL	100
98) 17a(H)-22,29,30-Trisnorhop	49.16	191	5635m	72.14	ng/ml	
99) 17a/b,21b/a 28,30-Bisnorho	50.37	191	1392m	17.82	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	50.16	191	756	9.68	ng/ml	100
101) 30-Norhopane (T15)	51.05	191	13078	167.42	ng/ml	100
102) 18a(H)-30-Norneohopane-C29	51.17	191	5950m	76.17	ng/ml	
103) 17a(H)-Diahopane (X)	51.30	191	1841m	23.57	ng/ml	
104) 30-Normoretane (T17)	51.85	191	2370m	30.34	ng/ml	
105) 18a(H)&18b(H)-Oleananes (T	52.26	191	2417m	30.94	ng/ml	
106) Moretane (T20)	53.15	191	2803m	35.88	ng/ml	
107) 30-Homohopane-22S (T21)	54.27	191	5216	66.77	ng/ml	100
108) 30-Homohopane-22R (T22)	54.51	191	4117	52.70	ng/ml	100
109) 30,31-Bishomohopane-22S (T	55.84	191	6332	81.06	ng/ml	100
110) 30,31-Bishomohopane-22R (T	56.24	191	1943	24.87	ng/ml	100
111) 30,31-Trishomohopane-22S (	58.04	191	1551m	19.86	ng/ml	
112) 30,31-Trishomohopane-22R (	58.68	191	1015m	12.99	ng/ml	
113) Tetrakishomohopane-22S (T3	60.71	191	1278m	16.36	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	45.41	217	2888m	75.60	ng/ml	
119) 13b(H),17a(H)-20R-Diachole	45.83	217	1489m	38.98	ng/ml	
120) 13b,17a-20S-Methyldiachole	46.53	217	836m	21.88	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	47.41	217	987m	25.84	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.94	217	3365m	88.08	ng/ml	
123) 13b,17a-20R-Ethyldiacholes	48.22	217	584m	15.29	ng/ml	
125) 14a,17a-20S-Methylcholesta	48.63	217	477m	12.49	ng/ml	
126) 14a,17a-20R-Methylcholesta	49.37	217	1224m	32.04	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	49.72	217	1014m	26.54	ng/ml	

VMAL 2/15/06

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34929.D
Acq On : 2 Feb 2006 3:30 am
Operator : AC
Sample : 0601070-05
Misc : 1X
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 14 12:48:14 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

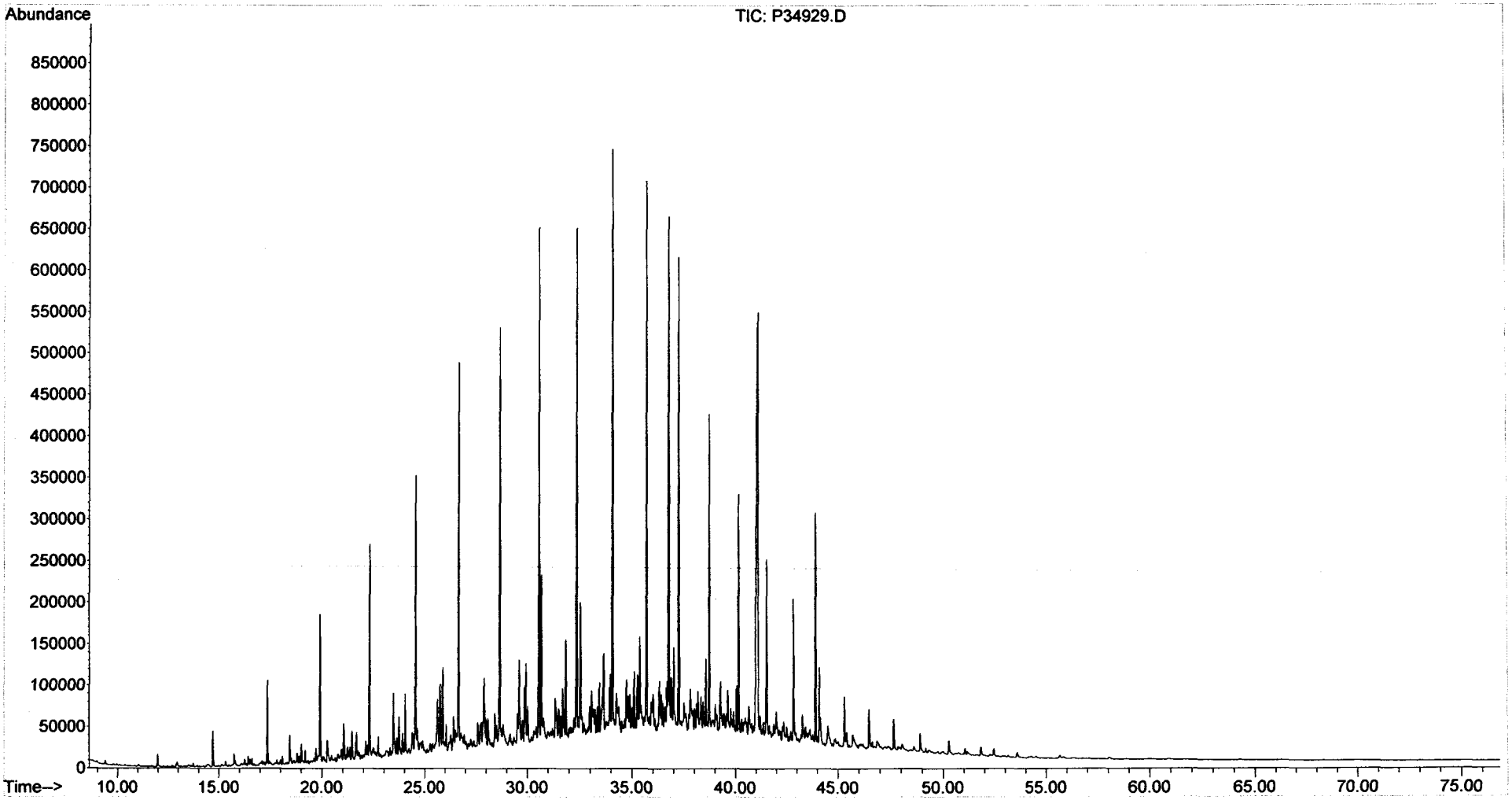
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
128) 14a(H),17a(H)-20R-Ethylcho	50.66	217	1335m	34.94	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	47.50	218	1553m	40.65	ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	47.59	218	1459m	38.19	ng/ml	
131) 14b,17b-20R-Methylcholesta	48.81	218	1131m	29.60	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.89	218	1380m	36.12	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.98	218	2046m	53.56	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	50.02	218	1109m	29.03	ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34929.D
Acq On : 2 Feb 2006 3:30 am
Operator : AC
Sample : 0601070-05
Misc : 1X
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 14 12:48:14 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-49 (10-11)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-05E**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	01/26/06	02/04/06	87.2	5.75	15.87	100	AC

Parameter	Result		Parameter	Result	
Naphthalene	**1200000**		Fluoranthene	320	U
C1-Naphthalenes	**640000**		Pyrene	280	U
C2-Naphthalenes	520	U	C1-Fluoranthenes/Pyrenes	280	U
C3-Naphthalenes	520	U	C2-Fluoranthenes/Pyrenes	280	U
C4-Naphthalenes	520	U	C3-Fluoranthenes/Pyrenes	280	U
Biphenyl	290	U	C4-Fluoranthenes/Pyrenes	280	U
Dibenzofuran	380	U	Naphthobenzothiophenes	380	U
Acenaphthylene	570	U	C1-Naphthobenzothiophenes	380	U
Acenaphthene	360	U	C2-Naphthobenzothiophenes	380	U
Fluorene	360	U	C3-Naphthobenzothiophenes	380	U
C1-Fluorenes	360	U	C4-Naphthobenzothiophenes	380	U
C2-Fluorenes	360	U	Benz[a]anthracene	500	U
C3-Fluorenes	360	U	Chrysene/Triphenylene	340	U
Anthracene	420	U	C1-Chrysenes	340	U
Phenanthrene	**460000**		C2-Chrysenes	340	U
C1-Phenanthrenes/Anthracenes	460	U	C3-Chrysenes	340	U
C2-Phenanthrenes/Anthracenes	460	U	C4-Chrysenes	340	U
C3-Phenanthrenes/Anthracenes	460	U	Benzo[b]fluoranthene	340	U
C4-Phenanthrenes/Anthracenes	460	U	Benzo[k]fluoranthene	640	U
Retene	460	U	Benzo[a]fluoranthene	640	U
Dibenzothiophene	350	U	Benzo[e]pyrene	430	U
C1-Dibenzothiophenes	350	U	Benzo[a]pyrene	440	U
C2-Dibenzothiophenes	350	U	Perylene	550	U
C3-Dibenzothiophenes	350	U	Indeno[1,2,3-cd]pyrene	760	U
C4-Dibenzothiophenes	350	U	Dibenz[a,h]anthracene	600	U
Benzo(b)fluorene	320	U	Benzo[g,h,i]perylene	560	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	90	50-130
Benzo[b]fluoranthene-d12	83	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 20:58

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17981.D
Acq On : 4 Feb 2006 8:30 pm
Operator : AC
Sample : 0601070-05-RE
Misc : 100X
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 12 14:43:42 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	50284	500.00	ng/mL	-0.02
72) Chrysene-d12	42.98	240	85793	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.20	152	1073	9.95	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.99%#		
58) Pyrene-d10	38.06	212	2522	11.38	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery =	1.14%#		
81) Benzo[b]fluoranthene-d12	46.88	264	1797	10.52	ng/mL	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery =	1.05%#		
125) 5B(H)Cholane - Surr	43.61	217	342m	10.15	ng/ml	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery =	1.02%#		

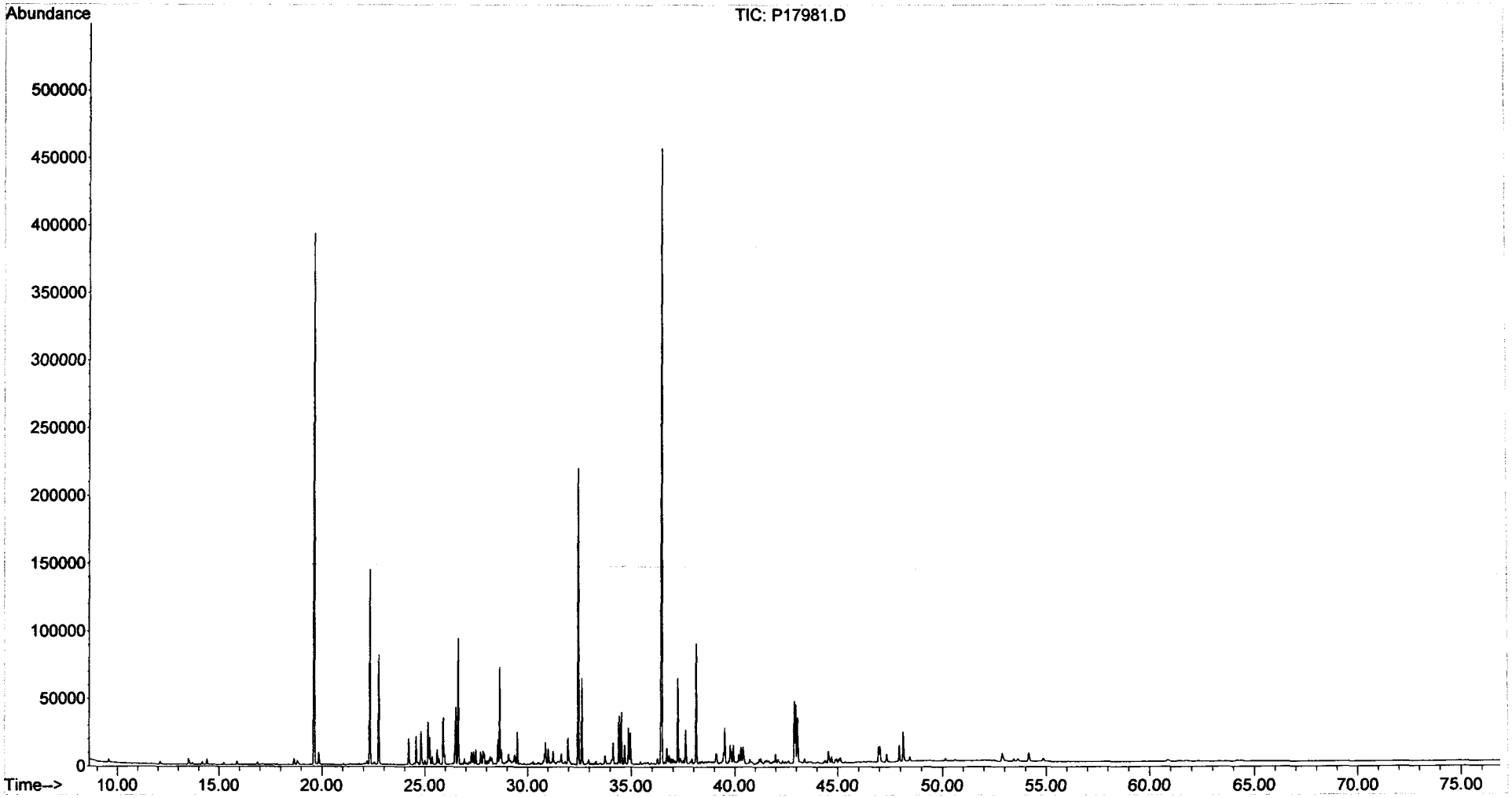
Target Compounds						Qvalue
9) Naphthalene	19.63	128	937434	3650.52	ng/mL#	100
10) C1-Naphthalenes	22.32	142	521220m	2029.72	ng/mL	
15) 2-Methylnaphthalene	22.32	142	329327	2025.77	ng/mL#	100
16) 1-Methylnaphthalene	22.74	142	190687	1245.92	ng/mL#	100
41) Phenanthrene	32.47	178	372522	1464.60	ng/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17981.D
Acq On : 4 Feb 2006 8:30 pm
Operator : AC
Sample : 0601070-05-RE
Misc : 100X
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 12 14:43:42 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-48 (5-5.8)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-06**
Associated Blank: **SS020606B06**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	02/06/06	02/09/06	50.5	5.21	84	10	AC

Parameter	Result		Parameter	Result
Naphthalene	**5800000**	E	Fluoranthene	**620000**
C1-Naphthalenes	**3600000**	E	Pyrene	**1000000**
C2-Naphthalenes	**2000000**		C1-Fluoranthenes/Pyrenes	**1300000**
C3-Naphthalenes	**780000**		C2-Fluoranthenes/Pyrenes	**620000**
C4-Naphthalenes	**250000**		C3-Fluoranthenes/Pyrenes	**260000**
Biphenyl	**280000**		C4-Fluoranthenes/Pyrenes	**76000**
Dibenzofuran	**85000**		Naphthobenzothiophenes	**150000**
Acenaphthylene	**270000**		C1-Naphthobenzothiophenes	**180000**
Acenaphthene	**1500000**		C2-Naphthobenzothiophenes	**110000**
Fluorene	**750000**		C3-Naphthobenzothiophenes	**55000**
C1-Fluorenes	**530000**		C4-Naphthobenzothiophenes	**22000**
C2-Fluorenes	**400000**		Benz[a]anthracene	**370000**
C3-Fluorenes	**210000**		Chrysene/Triphenylene	**410000**
Anthracene	**1000000**		C1-Chrysenes	**440000**
Phenanthrene	**2200000**		C2-Chrysenes	**260000**
C1-Phenanthrenes/Anthracenes	**1900000**		C3-Chrysenes	**140000**
C2-Phenanthrenes/Anthracenes	**1100000**		C4-Chrysenes	**44000**
C3-Phenanthrenes/Anthracenes	**410000**		Benzo[b]fluoranthene	**120000**
C4-Phenanthrenes/Anthracenes	**110000**		Benzo[k]fluoranthene	**150000**
Retene	460	U	Benzo[a]fluoranthene	**89000**
Dibenzothiophene	**290000**		Benzo[e]pyrene	**140000**
C1-Dibenzothiophenes	**390000**		Benzo[a]pyrene	**260000**
C2-Dibenzothiophenes	**340000**		Perylene	**51000**
C3-Dibenzothiophenes	**180000**		Indeno[1,2,3-cd]pyrene	**100000**
C4-Dibenzothiophenes	**59000**		Dibenz[a,h]anthracene	**29000**
Benzo(b)fluorene	**210000**		Benzo[g,h,i]perylene	**100000**

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	88	50-130
Pyrene-d10	99	50-130
Benzo[b]fluoranthene-d12	95	50-130

N/A - Not Applicable
E - Estimated value, exceeds the upper limit of calibration.
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/16/06 13:47

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-48 (5-5.8)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-06**
Associated Blank: **SS020606B06**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	02/06/06	02/09/06	50.5	5.21	84	10	AC

Parameter	Result
Carbazole	33000

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	88	50-130
Pyrene-d10	99	50-130
Benzo[b]fluoranthene-d12	95	50-130

N/A - Not Applicable

02/16/06 13:48

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18067.D
Acq On : 9 Feb 2006 8:22 am
Operator : AC
Sample : 0601070-06
Misc : 10X
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 14 12:02:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.49	164	43952m	500.00	ng/mL	-0.02
72) Chrysene-d12	42.95	240	78936	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.18	152	1964	20.84	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 2.08%#			
58) Pyrene-d10	38.02	212	4566m	23.57	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 2.36%#			
81) Benzo[b]fluoranthene-d12	46.85	264	3548	22.57	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 2.26%#			
125) 5B(H)Cholane - Surr	43.58	217	728m	23.47	ng/ml	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 2.35%#			

Target Compounds						Qvalue
9) Naphthalene	19.62	128	4088307	18214.16	ng/mL# E	100
10) C1-Naphthalenes	22.31	142	2513355m	11197.46	ng/mL E	
11) C2-Naphthalenes	25.14	156	1410400m	6283.59	ng/mL	
12) C3-Naphthalenes	27.48	170	552267m	2460.45	ng/mL	
13) C4-Naphthalenes	30.25	184	178879m	796.94	ng/mL	
15) 2-Methylnaphthalene	22.31	142	1551351	10917.51	ng/mL# E	100
16) 1-Methylnaphthalene	22.73	142	958578	7165.54	ng/mL#	100
22) Biphenyl	24.19	154	155355	879.39	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.80	156	161189m	1366.85	ng/mL	
24) Dibenzofuran	27.26	168	52688m	265.49	ng/mL	
25) Acenaphthylene	25.89	152	181054m	841.26	ng/mL	
26) Acenaphthene	26.62	153	627780	4695.92	ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.18	170	38869m	367.17	ng/mL	
28) Fluorene	28.64	166	354482m	2364.31	ng/mL	
29) C1-Fluorenes	30.86	180	250779m	1672.64	ng/mL	
30) C2-Fluorenes	33.04	194	187975m	1253.75	ng/mL	
31) C3-Fluorenes	35.03	208	98584m	657.53	ng/mL	
32) Dibenzothiophene	31.95	184	203421	920.02	ng/mL#	86
37) C1-Dibenzothiophenes	33.73	198	267896m	1211.63	ng/mL	
38) C2-Dibenzothiophenes	35.78	212	233748m	1057.18	ng/mL	
39) C3-Dibenzothiophenes	37.22	226	124442m	562.82	ng/mL	
40) C4-Dibenzothiophenes	38.91	240	40850m	184.75	ng/mL	
41) Phenanthrene	32.45	178	1535086	6904.79	ng/mL	99
47) C1-Phenanthrenes/Anthracen	34.52	192	1327058m	5969.09	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.69	206	752936m	3386.69	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.52	220	286587m	1289.06	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.72	234	79616m	358.11	ng/mL	
53) Anthracene	32.62	178	674816	3280.62	ng/mL	100
54) Carbazole	33.29	167	19590m	102.90	ng/mL	
55) 1-Methylphenanthrene	34.95	192	216507	1422.25	ng/mL	99
56) Fluoranthene	37.22	202	461691m	1950.40	ng/mL	
57) Benzo(b)fluorene	39.74	216	92796m	671.71	ng/mL	
59) Pyrene	38.10	202	763242	3170.20	ng/mL	98
60) C1-Fluoranthenes/Pyrenes	39.50	216	1006088m	4178.89	ng/mL	
61) C2-Fluoranthenes/Pyrenes	41.96	230	466969m	1939.60	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.44	244	193162m	802.32	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.69	258	56957m	236.58	ng/mL	
64) Naphthobenzothiophene	41.95	234	66376	294.70	ng/ml	97
65) Naphthobenzothiophene-2,1-	41.95	234	66432	294.95	ng/mL	97
66) Naphthobenzothiophene-1,2-	42.30	234	19319	85.77	ng/mL#	30

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18067.D
Acq On : 9 Feb 2006 8:22 am
Operator : AC
Sample : 0601070-06
Misc : 10X
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 14 12:02:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

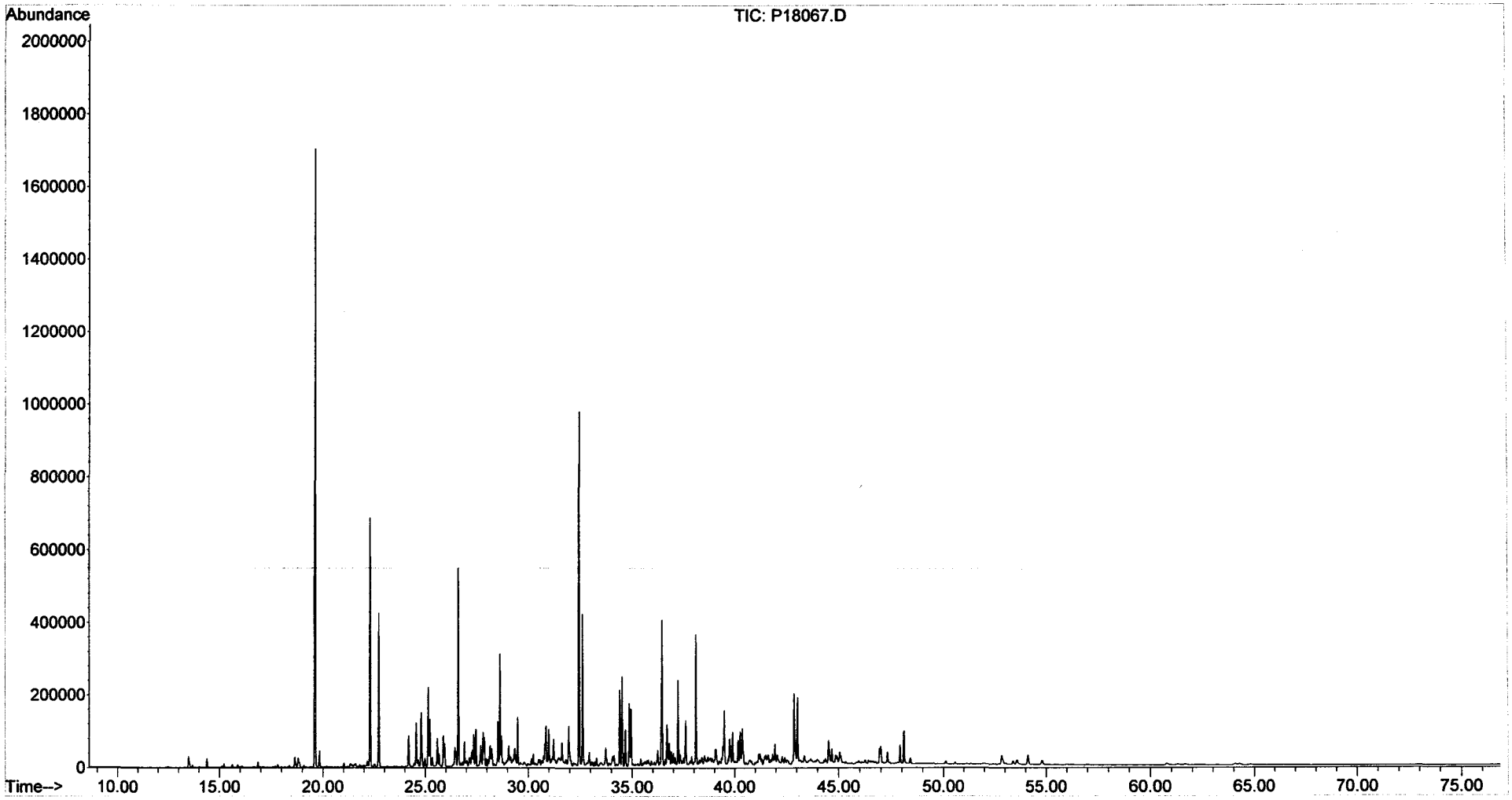
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Naphthobenzothiophene-2,3-	42.59	234	20407m	90.60	ng/mL	
68) C1-Naphthobenzothiophenes	43.35	248	125132m	555.57	ng/ml	
69) C2-Naphthobenzothiophenes	44.86	262	76564m	339.94	ng/ml	
70) C3-Naphthobenzothiophenes	46.98	276	39030m	173.29	ng/ml	
71) C4-Naphthobenzothiophenes	48.04	290	15718m	69.79	ng/mL	
73) Benz[a]anthracene	42.88	228	276550m	1150.91	ng/mL	
74) Chrysene	43.04	228	316744m	1290.05	ng/mL	=RT+Retenc 2nd on 2Hydr
75) Chrysene/Triphenylene	43.04	228	317439m	1292.89	ng/mL	
76) C1-Chrysenes	44.53	242	336388m	1370.06	ng/mL	
77) C2-Chrysenes	46.24	256	197680m	805.12	ng/mL	
79) C3-Chrysenes	47.82	270	104851m	427.04	ng/mL	
80) C4-Chrysenes	49.38	284	33914m	138.13	ng/mL	
82) Benzo[b]fluoranthene	46.93	252	94399	382.53	ng/mL	99
83) Benzo[k]fluoranthene	47.00	252	118071	459.90	ng/mL	98
84) Benzo[a]fluoranthene	47.31	252	71341m	277.88	ng/mL	
85) Benzo[e]pyrene	47.92	252	101374	424.30	ng/mL	96
86) Benzo[a]pyrene	48.11	252	192688m	815.11	ng/mL	
87) Perylene	48.40	252	37050	160.34	ng/mL	93
88) Indeno[1,2,3-cd]pyrene	52.83	276	66366m	319.02	ng/mL	
89) Dibenz[a,h]anthracene	52.89	278	19190m	90.50	ng/mL	
90) Benzo[g,h,i]perylene	54.10	276	78830	328.84	ng/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18067.D
Acq On : 9 Feb 2006 8:22 am
Operator : AC
Sample : 0601070-06
Misc : 10X
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 14 12:02:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-48 (5-5.8)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-06**
Associated Blank: **SS020606B06**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	02/06/06	02/11/06	50.5	5.21	8.75	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	510	30,31-Bishomohopane-22S	620
C24 Tricyclic Terpane	330	30,31-Bishomohopane-22R	360
C25 Tricyclic Terpane	310	30,31-Trishomohopane-22S	270
C24 Tetracyclic Terpane	450	30,31-Trishomohopane-22R	180
C26 Tricyclic Terpane-22S	120	Tetrakishomohopane-22S	180
C26 Tricyclic Terpane-22R	110	Tetrakishomohopane-22R	110
C28 Tricyclic Terpane-22S	160	Pentakishomohopane-22S	97
C28 Tricyclic Terpane-22R	140	Pentakishomohopane-22R	84
C29 Tricyclic Terpane-22S	130	13b(H),17a(H)-20S-Diacholestane	600
C29 Tricyclic Terpane-22R	130	13b(H),17a(H)-20R-Diacholestane	340
18a-22,29,30-Trisnorneohopane-TS	1400	13b,17a-20S-Methyldiacholestane	240
C30 Tricyclic Terpane-22S	100	14a(H),17a(H)-20S-Cholestane	300
C30 Tricyclic Terpane-22R	80	14a(H),17a(H)-20R-Cholestane	820
17a(H)-22,29,30-Trisnorhopane-TM	910	13b,17a-20R-Ethyldiacholestane	120
17a/b,21b/a 28,30-Bisnorhopane	200	13a,17b-20S-Ethyldiacholestane	37
17a(H),21b(H)-25-Norhopane	44	14a,17a-20S-Methylcholestane	250
30-Norhopane	2300	14a,17a-20R-Methylcholestane	350
18a(H)-30-Norneohopane-C29Ts	1400	14a(H),17a(H)-20S-Ethylcholestane	240
17a(H)-Diahopane	360	14a(H),17a(H)-20R-Ethylcholestane	300
30-Normoretane	490	14b(H),17b(H)-20R-Cholestane	380
18a(H)&18b(H)-Oleananes	610	14b(H),17b(H)-20S-Cholestane	370
Hopane	3800	14b,17b-20R-Methylcholestane	380
Moretane	490	14b,17b-20S-Methylcholestane	430
30-Homohopane-22S	870	14b(H),17b(H)-20R-Ethylcholestane	510
30-Homohopane-22R	790	14b(H),17b(H)-20S-Ethylcholestane	320

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	84	50-130

N/A - Not Applicable

02/16/06 13:43

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28214.D
Acq On : 11 Feb 2006 8:44 am
Operator : AC
Sample : 0601070-06
Misc : 1X
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 14 13:33:14 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

MS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.64	240	57816	500.00	ng/mL	0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
117) 5B(H)Cholane - Surr	44.21	217	47299	1923.65	ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	192.37%#	

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.93	191	65245m	1143.25	ng/mL	
84) Hopane (T19)	52.93	191	64627m	1132.43	ng/mL	
85) C23 Tricyclic Terpane (T4)	41.22	191	8760m	153.50	ng/ml	
86) C24 Tricyclic Terpane (T5)	41.95	191	5651	99.02	ng/ml	100
87) C25 Tricyclic Terpane (T6)	43.43	191	5252m	92.03	ng/ml	
88) C24 Tetracyclic Terpane (T	44.77	191	7739	135.61	ng/ml	100
89) C26 Tricyclic Terpane-22S	44.49	191	2100	36.80	ng/ml	100
90) C26 Tricyclic Terpane-22R	44.59	191	1946m	34.10	ng/ml	
91) C28 Tricyclic Terpane-22S	46.87	191	2680	46.96	ng/ml	100
92) C28 Tricyclic Terpane-22R	47.04	191	2319m	40.63	ng/ml	
93) C29 Tricyclic Terpane-22S	47.58	191	2195	38.46	ng/ml	100
94) C29 Tricyclic Terpane-22R	47.77	191	2297m	40.25	ng/ml	
95) 18a-22,29,30-Trisnorneohop	48.98	191	23502	411.81	ng/ml	100
96) C30 Tricyclic Terpane-22S	49.05	191	1779m	31.17	ng/mL	
97) C30 Tricyclic Terpane-22R	49.30	191	1382	24.22	ng/mL	100
98) 17a(H)-22,29,30-Trisnorhop	49.55	191	15667m	274.52	ng/ml	
99) 17a/b,21b/a 28,30-Bisnorho	50.79	191	3453m	60.51	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	50.56	191	749m	13.12	ng/ml	
101) 30-Norhopane (T15)	51.49	191	39581m	693.56	ng/ml	
102) 18a(H)-30-Norneohopane-C29	51.60	191	23441m	410.74	ng/ml	
103) 17a(H)-Diahopane (X)	51.73	191	6229m	109.15	ng/ml	
104) 30-Normoretane (T17)	52.32	191	8453	148.12	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	52.75	191	10458m	183.25	ng/ml	
106) Moretane (T20)	53.66	191	8464m	148.31	ng/ml	
107) 30-Homohopane-22S (T21)	54.82	191	15001	262.85	ng/ml	100
108) 30-Homohopane-22R (T22)	55.07	191	13512	236.76	ng/ml	100
109) 30,31-Bishomohopane-22S (T	56.47	191	10673	187.02	ng/ml	100
110) 30,31-Bishomohopane-22R (T	56.88	191	6252m	109.55	ng/ml	
111) 30,31-Trishomohopane-22S (	58.74	191	4710	82.53	ng/ml	100
112) 30,31-Trishomohopane-22R (	59.40	191	3099	54.30	ng/ml	100
113) Tetrakishomohopane-22S (T3	61.55	191	3043	53.32	ng/ml	100
114) Tetrakishomohopane-22R (T3	62.49	191	1874	32.84	ng/ml	100
115) Pentakishomohopane-22S (T3	64.87	191	1660	29.09	ng/ml	100
116) Pentakishomohopane-22R (T3	66.28	191	1438	25.20	ng/ml	100
118) 13b(H),17a(H)-20S-Diachole	45.71	217	4417m	179.64	ng/ml	
119) 13b(H),17a(H)-20R-Diachole	46.13	217	2518	102.41	ng/ml	100
120) 13b,17a-20S-Methyldiachole	46.83	217	1815m	73.82	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	47.72	217	2208m	89.80	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	48.26	217	6081m	247.31	ng/ml	
123) 13b,17a-20R-Ethyldiacholes	48.55	217	895m	36.40	ng/ml	

rmk 2/15/06

RPT conc and 2/16/06

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28214.D
Acq On : 11 Feb 2006 8:44 am
Operator : AC
Sample : 0601070-06
Misc : 1X
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 14 13:33:14 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

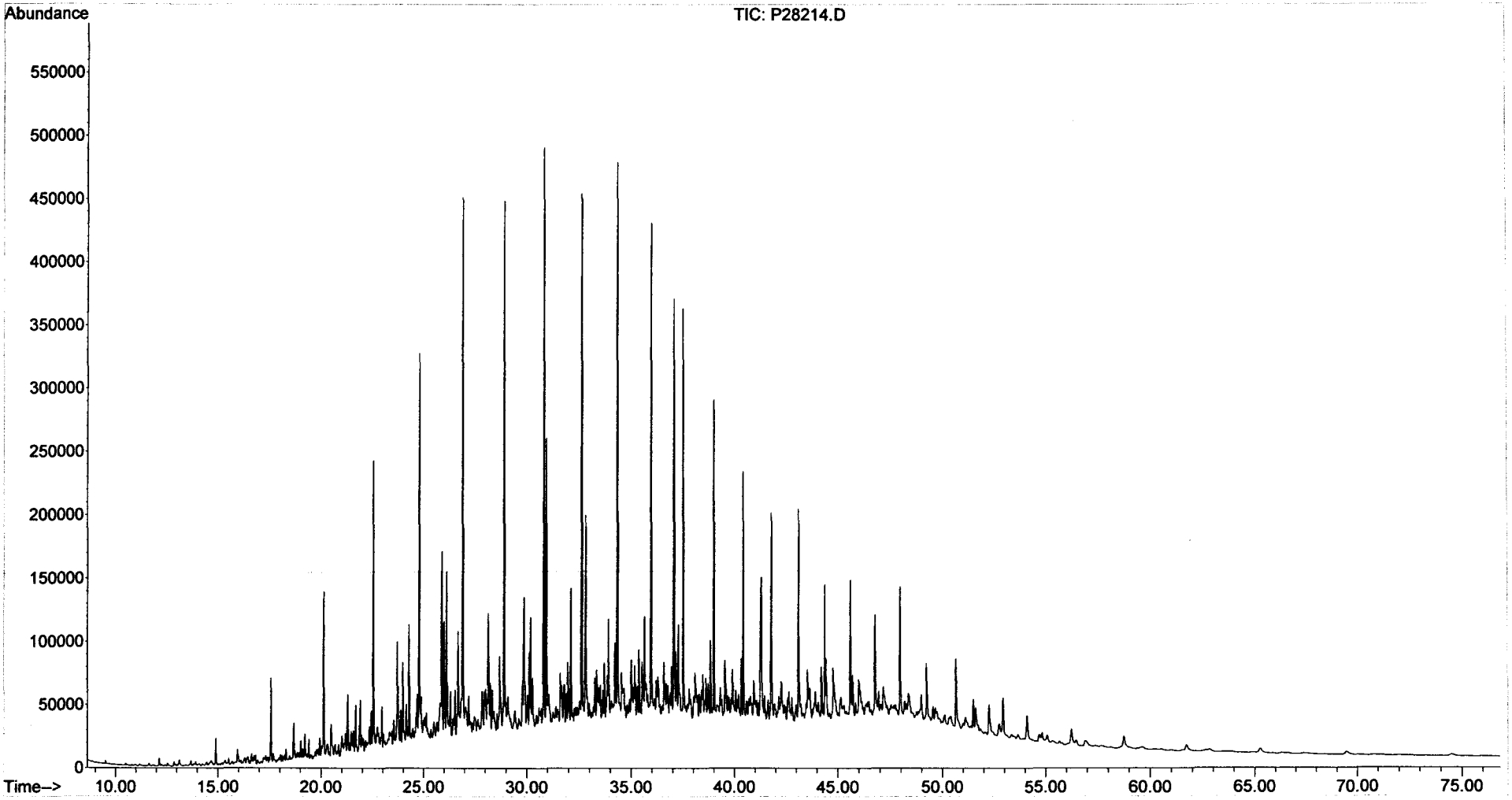
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
124) 13a,17b-20S-Ethyldiacholes	48.82	217	274	11.14	ng/ml	100
125) 14a,17a-20S-Methylcholesta	48.98	217	1836m	74.67	ng/ml	
126) 14a,17a-20R-Methylcholesta	49.75	217	2591m	105.38	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	50.11	217	1765m	71.78	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	51.07	217	2225m	90.49	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	47.81	218	2818m	114.61	ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	47.91	218	2745m	111.64	ng/ml	
131) 14b,17b-20R-Methylcholesta	49.17	218	2851m	115.95	ng/ml	
132) 14b,17b-20S-Methylcholesta	49.25	218	3159m	128.48	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	50.36	218	3763m	153.04	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	50.41	218	2356m	95.82	ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28214.D
Acq On : 11 Feb 2006 8:44 am
Operator : AC
Sample : 0601070-06
Misc : 1X
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 14 13:33:14 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-48 (5-5.8)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-06E**
Associated Blank: **SS020606B06**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	02/06/06	02/09/06	50.5	5.21	84	100	AC

Parameter	Result		Parameter	Result	
Naphthalene	**5200000**		Fluoranthene	3200	U
C1-Naphthalenes	**3200000**		Pyrene	2800	U
C2-Naphthalenes	5300	U	C1-Fluoranthenes/Pyrenes	2800	U
C3-Naphthalenes	5300	U	C2-Fluoranthenes/Pyrenes	2800	U
C4-Naphthalenes	5300	U	C3-Fluoranthenes/Pyrenes	2800	U
Biphenyl	2900	U	C4-Fluoranthenes/Pyrenes	2800	U
Dibenzofuran	3800	U	Naphthobenzothiophenes	3900	U
Acenaphthylene	5800	U	C1-Naphthobenzothiophenes	3900	U
Acenaphthene	3700	U	C2-Naphthobenzothiophenes	3900	U
Fluorene	3700	U	C3-Naphthobenzothiophenes	3900	U
C1-Fluorenes	3700	U	C4-Naphthobenzothiophenes	3900	U
C2-Fluorenes	3700	U	Benz[a]anthracene	5000	U
C3-Fluorenes	3700	U	Chrysene/Triphenylene	3400	U
Anthracene	4300	U	C1-Chrysenes	3400	U
Phenanthrene	4600	U	C2-Chrysenes	3400	U
C1-Phenanthrenes/Anthracenes	4600	U	C3-Chrysenes	3400	U
C2-Phenanthrenes/Anthracenes	4600	U	C4-Chrysenes	3400	U
C3-Phenanthrenes/Anthracenes	4600	U	Benzo[b]fluoranthene	3400	U
C4-Phenanthrenes/Anthracenes	4600	U	Benzo[k]fluoranthene	6500	U
Retene	4600	U	Benzo[a]fluoranthene	6500	U
Dibenzothiophene	3500	U	Benzo[e]pyrene	4400	U
C1-Dibenzothiophenes	3500	U	Benzo[a]pyrene	4400	U
C2-Dibenzothiophenes	3500	U	Perylene	5600	U
C3-Dibenzothiophenes	3500	U	Indeno[1,2,3-cd]pyrene	7700	U
C4-Dibenzothiophenes	3500	U	Dibenz[a,h]anthracene	6100	U
Benzo(b)fluorene	3200	U	Benzo[g,h,i]perylene	5600	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	81	50-130
Benzo[b]fluoranthene-d12	91	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/16/06 13:45

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB08\
Data File : P18063.D
Acq On : 9 Feb 2006 5:16 am
Operator : AC
Sample : 0601070-06-RE
Misc : 100X
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 12 13:47:21 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MS 2/14/06

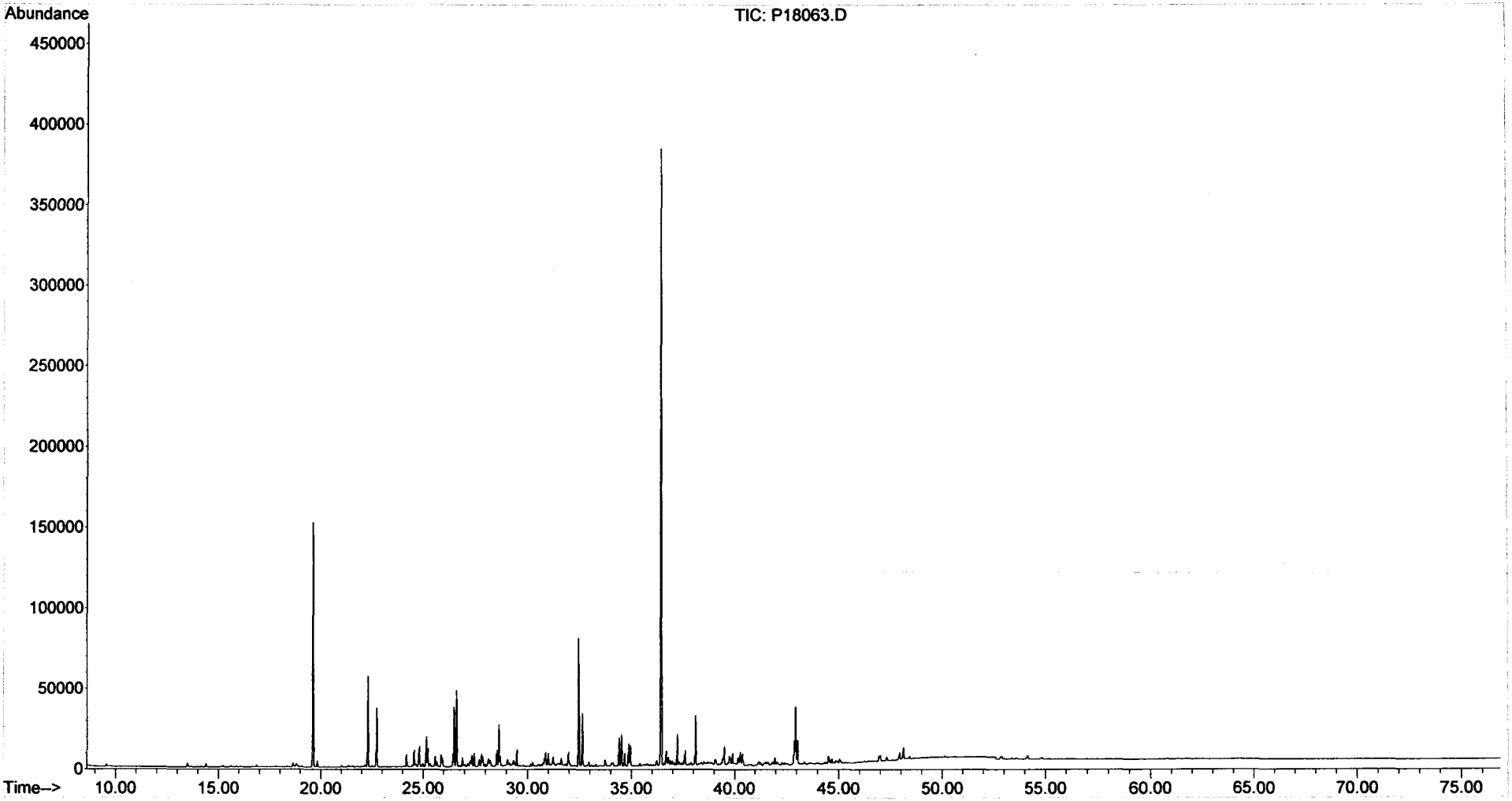
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.49	164	43427m	500.00	ng/mL	-0.02
72) Chrysene-d12	42.95	240	73461	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.18	152	175m	1.88	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.19%#	
58) Pyrene-d10	38.04	212	369m	1.93	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.19%#	
81) Benzo[b]fluoranthene-d12	46.85	264	317m	2.17	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.22%#	
125) 5B(H)Cholane - Surr	0.00	217	0	0.00	ng/ml	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
Target Compounds						Qvalue
9) Naphthalene	19.61	128	363455	1638.83	ng/mL#	100
10) C1-Naphthalenes	22.31	142	218842m	986.77	ng/mL	
15) 2-Methylnaphthalene	22.31	142	134749	959.75	ng/mL#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB08\
Data File : P18063.D
Acq On : 9 Feb 2006 5:16 am
Operator : AC
Sample : 0601070-06-RE
Misc : 100X
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 12 13:47:21 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-78B (2.5-5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-07**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/05/06	43.8	10.80	18.1	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	4200		Fluoranthene	68000	E
C1-Naphthalenes	5300		Pyrene	50000	E
C2-Naphthalenes	8300		C1-Fluoranthenes/Pyrenes	36000	
C3-Naphthalenes	10000		C2-Fluoranthenes/Pyrenes	15000	
C4-Naphthalenes	8700		C3-Fluoranthenes/Pyrenes	6900	
Biphenyl	880		C4-Fluoranthenes/Pyrenes	3400	
Dibenzofuran	8400		Naphthobenzothiophenes	7100	
Acenaphthylene	3100		C1-Naphthobenzothiophenes	4800	
Acenaphthene	18000		C2-Naphthobenzothiophenes	3400	
Fluorene	12000		C3-Naphthobenzothiophenes	2100	
C1-Fluorenes	5700		C4-Naphthobenzothiophenes	1100	
C2-Fluorenes	8100		Benz[a]anthracene	18000	
C3-Fluorenes	8200		Chrysene/Triphenylene	18000	
Anthracene	12000		C1-Chrysenes	11000	
Phenanthrene	42000	E	C2-Chrysenes	6200	
C1-Phenanthrenes/Anthracenes	27000		C3-Chrysenes	4000	
C2-Phenanthrenes/Anthracenes	25000		C4-Chrysenes	1500	
C3-Phenanthrenes/Anthracenes	14000		Benzo[b]fluoranthene	9600	
C4-Phenanthrenes/Anthracenes	4800		Benzo[k]fluoranthene	9500	
Retene	2400		Benzo[a]fluoranthene	2600	
Dibenzothiophene	5200		Benzo[e]pyrene	7500	
C1-Dibenzothiophenes	5100		Benzo[a]pyrene	11000	
C2-Dibenzothiophenes	7800		Perylene	2400	
C3-Dibenzothiophenes	6500		Indeno[1,2,3-cd]pyrene	5900	
C4-Dibenzothiophenes	3000		Dibenz[a,h]anthracene	1500	
Benzo(b)fluorene	10000		Benzo[g,h,i]perylene	5100	

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	81	50-130
Pyrene-d10	97	50-130
Benzo[b]fluoranthene-d12	90	50-130

N/A - Not Applicable
E - Estimated value, exceeds the upper limit of calibration.

02/14/06 20:02

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-78B (2.5-5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-07**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/05/06	43.8	10.80	18.1	1	AC

Parameter	Result
Carbazole	**800**

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	81	50-130
Pyrene-d10	97	50-130
Benzo[b]fluoranthene-d12	90	50-130

N/A - Not Applicable

02/14/06 20:03

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17987.D
Acq On : 5 Feb 2006 1:14 am
Operator : AC
Sample : 0601070-07
Misc : 1X
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 12 17:53:09 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

CMS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	46410m	500.00	ng/mL	-0.02
72) Chrysene-d12	43.00	240	87189	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.20	152	89101	895.54	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 89.55%			
58) Pyrene-d10	38.07	212	218790	1069.55	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 106.96%			
81) Benzo[b]fluoranthene-d12	46.90	264	173174	997.40	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 99.74%			
125) 5B(H)Cholane - Surr	43.63	217	30734	897.10	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 89.71%			

Target Compounds						Qvalue
9) Naphthalene	19.63	128	257319	1085.69	ng/mL#	100
10) C1-Naphthalenes	22.75	142	327828m	1383.18	ng/mL	
11) C2-Naphthalenes	25.17	156	514806m	2172.08	ng/mL	
12) C3-Naphthalenes	27.51	170	639395m	2697.75	ng/mL	
13) C4-Naphthalenes	30.27	184	539004m	2274.18	ng/mL	
15) 2-Methylnaphthalene	22.32	142	153131	1020.57	ng/mL#	100
16) 1-Methylnaphthalene	22.75	142	174542	1235.63	ng/mL#	100
22) Biphenyl	24.20	154	42933	230.15	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.82	156	73145m	587.41	ng/mL	
24) Dibenzofuran	27.29	168	458890m	2189.80	ng/mL	
25) Acenaphthylene	25.91	152	184637m	812.47	ng/mL	
26) Acenaphthene	26.65	153	683998	4845.46	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.20	170	51847m	463.82	ng/mL	
28) Fluorene	28.66	166	512364m	3236.36	ng/mL	
29) C1-Fluorenes	30.89	180	236550m	1494.17	ng/mL	
30) C2-Fluorenes	33.08	194	336768m	2127.20	ng/mL	
31) C3-Fluorenes	35.06	208	339838m	2146.59	ng/mL	
32) Dibenzothiophene	31.99	184	318819	1365.57	ng/mL#	91
36) OTP	34.20	198	22603	96.81	ng/mL#	100
37) C1-Dibenzothiophenes	33.76	198	331583m	1420.24	ng/mL	
38) C2-Dibenzothiophenes	35.46	212	475006m	2034.55	ng/mL	
39) C3-Dibenzothiophenes	37.27	226	396829m	1699.70	ng/mL	
40) C4-Dibenzothiophenes	38.95	240	182832m	783.11	ng/mL	
41) Phenanthrene	32.49	178	2545640	10843.81	ng/mL E	100
47) C1-Phenanthrenes/Anthracen	34.44	192	1673113m	7127.06	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.72	206	1507303m	6420.75	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.56	220	828043m	3527.26	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.77	234	293406m	1249.84	ng/mL	
52) Retene	39.48	234	31037m	632.33	ng/mL	
53) Anthracene	32.66	178	678930	3125.81	ng/mL	100
54) Carbazole	33.33	167	41975m	208.81	ng/mL	
55) 1-Methylphenanthrene	35.00	192	249998	1555.27	ng/mL	99
56) Fluoranthene	37.28	202	4438012m	17755.33	ng/mL E	
57) Benzo(b)fluorene	39.79	216	401895m	2755.08	ng/mL	
59) Pyrene	38.16	202	3334713	13117.48	ng/mL E	99
60) C1-Fluoranthenes/Pyrenes	39.55	216	2397301m	9430.06	ng/mL	
61) C2-Fluoranthenes/Pyrenes	41.28	230	998111m	3926.19	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.49	244	457113m	1798.11	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.74	258	227072m	893.21	ng/mL	
64) Naphthobenzothiophene	42.00	234	287351	1208.24	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17987.D
Acq On : 5 Feb 2006 1:14 am
Operator : AC
Sample : 0601070-07
Misc : 1X
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 12 17:53:09 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

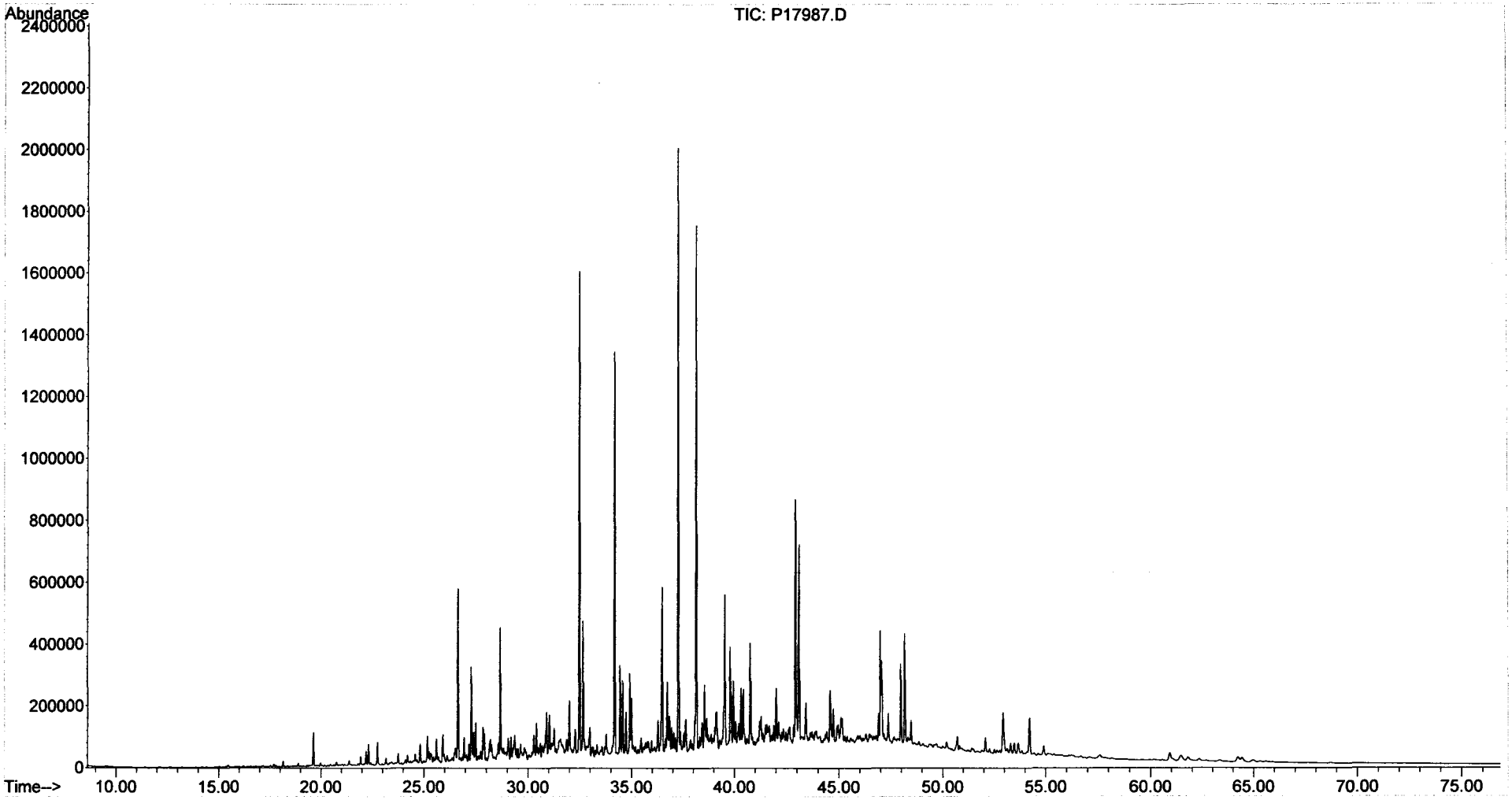
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Naphthobenzothiophene-2,1-	42.00	234	287547	1209.06	ng/mL	100
66) Naphthobenzothiophene-1,2-	42.35	234	64478	271.11	ng/mL#	30
67) Naphthobenzothiophene-2,3-	42.64	234	88178m	370.77	ng/mL	
68) C1-Naphthobenzothiophenes	43.40	248	299074m	1257.53	ng/ml	
69) C2-Naphthobenzothiophenes	44.91	262	214248m	900.86	ng/ml	
70) C3-Naphthobenzothiophenes	47.03	276	131818m	554.26	ng/ml	
71) C4-Naphthobenzothiophenes	48.09	290	68514m	288.08	ng/mL	
73) Benz[a]anthracene	42.94	228	1263609m	4760.95	ng/mL	
74) Chrysene	43.10	228	1240775m	4575.16	ng/mL	
75) Chrysene/Triphenylene	43.10	228	1237333m	4562.47	ng/mL	
76) C1-Chrysenes	44.58	242	798465m	2944.21	ng/mL	
77) C2-Chrysenes	46.28	256	451431m	1664.58	ng/mL	
78) BBF-d12 Surr BKGD	46.90	256	11165	41.17	ng/mL	100
79) C3-Chrysenes	47.88	270	283785m	1046.41	ng/mL	
80) C4-Chrysenes	49.44	284	108588m	400.40	ng/mL	
82) Benzo[b]fluoranthene	46.99	252	683338	2506.94	ng/mL	99
83) Benzo[k]fluoranthene	47.07	252	704724m	2485.16	ng/mL	
84) Benzo[a]fluoranthene	47.36	252	189284m	667.50	ng/mL	
85) Benzo[e]pyrene	47.98	252	517904	1962.48	ng/mL	97
86) Benzo[a]pyrene	48.17	252	731190m	2800.29	ng/mL	
87) Perylene	48.47	252	160342	628.21	ng/mL	95
88) Indeno[1,2,3-cd]pyrene	52.93	276	353519m	1538.49	ng/mL	
89) Dibenz[a,h]anthracene	52.98	278	93782m	400.40	ng/mL	
90) Benzo[g,h,i]perylene	54.21	276	354035	1337.07	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17987.D
Acq On : 5 Feb 2006 1:14 am
Operator : AC
Sample : 0601070-07
Misc : 1X
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 12 17:53:09 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-78B (2.5-5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-07**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/02/06	43.8	10.80	6.25	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**810**	30,31-Bishomohopane-22S	**1400**
C24 Tricyclic Terpane	**480**	30,31-Bishomohopane-22R	**840**
C25 Tricyclic Terpane	**500**	30,31-Trishomohopane-22S	**770**
C24 Tetracyclic Terpane	**450**	30,31-Trishomohopane-22R	**450**
C26 Tricyclic Terpane-22S	**220**	Tetrakishomohopane-22S	**450**
C26 Tricyclic Terpane-22R	**220**	Tetrakishomohopane-22R	**320**
C28 Tricyclic Terpane-22S	**240**	Pentakishomohopane-22S	**440**
C28 Tricyclic Terpane-22R	**240**	Pentakishomohopane-22R	**320**
C29 Tricyclic Terpane-22S	**300**	13b(H),17a(H)-20S-Diacholestane	**900**
C29 Tricyclic Terpane-22R	**300**	13b(H),17a(H)-20R-Diacholestane	**520**
18a-22,29,30-Trisnorneohopane-TS	**1200**	13b,17a-20S-Methyldiacholestane	**440**
C30 Tricyclic Terpane-22S	**210**	14a(H),17a(H)-20S-Cholestane	**530**
C30 Tricyclic Terpane-22R	**210**	14a(H),17a(H)-20R-Cholestane	**1700**
17a(H)-22,29,30-Trisnorhopane-TM	**1200**	13b,17a-20R-Ethyldiacholestane	**300**
17a/b,21b/a 28,30-Bisnorhopane	**240**	13a,17b-20S-Ethyldiacholestane	**85**
17a(H),21b(H)-25-Norhopane	**130**	14a,17a-20S-Methylcholestane	**280**
30-Norhopane	**3800**	14a,17a-20R-Methylcholestane	**690**
18a(H)-30-Norneohopane-C29Ts	**1000**	14a(H),17a(H)-20S-Ethylcholestane	**660**
17a(H)-Diahopane	**210**	14a(H),17a(H)-20R-Ethylcholestane	**880**
30-Normoretane	**640**	14b(H),17b(H)-20R-Cholestane	**890**
18a(H)&18b(H)-Oleananes	**450**	14b(H),17b(H)-20S-Cholestane	**880**
Hopane	**5300**	14b,17b-20R-Methylcholestane	**830**
Moretane	**640**	14b,17b-20S-Methylcholestane	**1100**
30-Homohopane-22S	**1800**	14b(H),17b(H)-20R-Ethylcholestane	**1400**
30-Homohopane-22R	**1600**	14b(H),17b(H)-20S-Ethylcholestane	**1100**

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	72	50-130

N/A - Not Applicable

02/14/06 21:31

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34931.D
Acq On : 2 Feb 2006 6:32 am
Operator : AC
Sample : 0601070-07
Misc : 1X
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 14 12:53:01 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

AS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.42	240	94644	500.00	ng/mL	0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.91	217	91310	2295.58	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 229.56%#			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.48	191	325501m	4002.12	ng/mL	
84) Hopane (T19)	52.48	191	326119m	4009.72	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.93	191	49737m	611.53	ng/ml	
86) C24 Tricyclic Terpane (T5)	41.66	191	29248	359.61	ng/ml	100
87) C25 Tricyclic Terpane (T6)	43.15	191	30701m	377.48	ng/ml	
88) C24 Tetracyclic Terpane (T	44.47	191	27517	338.33	ng/ml	100
89) C26 Tricyclic Terpane-22S	44.20	191	13431	165.14	ng/ml	100
90) C26 Tricyclic Terpane-22R	44.31	191	13534	166.40	ng/ml	100
91) C28 Tricyclic Terpane-22S	46.59	191	15026m	184.75	ng/ml	
92) C28 Tricyclic Terpane-22R	46.75	191	15068m	185.27	ng/ml	
93) C29 Tricyclic Terpane-22S	47.27	191	18517	227.67	ng/ml	100
94) C29 Tricyclic Terpane-22R	47.48	191	18439m	226.71	ng/ml	
95) 18a-22,29,30-Trisnorneohop	48.63	191	74857	920.39	ng/ml	100
96) C30 Tricyclic Terpane-22S	48.72	191	12874	158.29	ng/mL	100
97) C30 Tricyclic Terpane-22R	48.97	191	12879m	158.35	ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	49.18	191	74484	915.80	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	50.39	191	15013m	184.59	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	50.18	191	7991	98.25	ng/ml	100
101) 30-Norhopane (T15)	51.08	191	231704m	2848.86	ng/ml	
102) 18a(H)-30-Norneohopane-C29	51.19	191	64088m	787.98	ng/ml	
103) 17a(H)-Diahopane (X)	51.31	191	12769	157.00	ng/ml	100
104) 30-Normoretane (T17)	51.87	191	39402	484.46	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	52.29	191	27496m	338.07	ng/ml	
106) Moretane (T20)	53.18	191	39494m	485.59	ng/ml	
107) 30-Homohopane-22S (T21)	54.30	191	110889m	1363.41	ng/ml	
108) 30-Homohopane-22R (T22)	54.53	191	97844	1203.02	ng/ml	100
109) 30,31-Bishomohopane-22S (T	55.89	191	82996	1020.46	ng/ml	100
110) 30,31-Bishomohopane-22R (T	56.28	191	51917	638.33	ng/ml	100
111) 30,31-Trishomohopane-22S (	58.06	191	47288m	581.42	ng/ml	
112) 30,31-Trishomohopane-22R (	58.69	191	27901m	343.05	ng/ml	
113) Tetrakishomohopane-22S (T3	60.74	191	27688	340.43	ng/ml	100
114) Tetrakishomohopane-22R (T3	61.67	191	19778	243.18	ng/ml	100
115) Pentakishomohopane-22S (T3	63.95	191	27077	332.92	ng/ml	100
116) Pentakishomohopane-22R (T3	65.28	191	19470m	239.39	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	45.42	217	27215m	684.20	ng/ml	
119) 13b(H),17a(H)-20R-Diachole	45.84	217	15538	390.63	ng/ml	100
120) 13b,17a-20S-Methyldiachole	46.54	217	13169m	331.07	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	47.42	217	16015m	402.62	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.95	217	50971m	1281.43	ng/ml	
123) 13b,17a-20R-Ethyldiacholes	48.23	217	9016m	226.67	ng/ml	

AL 2/15/06

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34931.D
Acq On : 2 Feb 2006 6:32 am
Operator : AC
Sample : 0601070-07
Misc : 1X
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 14 12:53:01 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

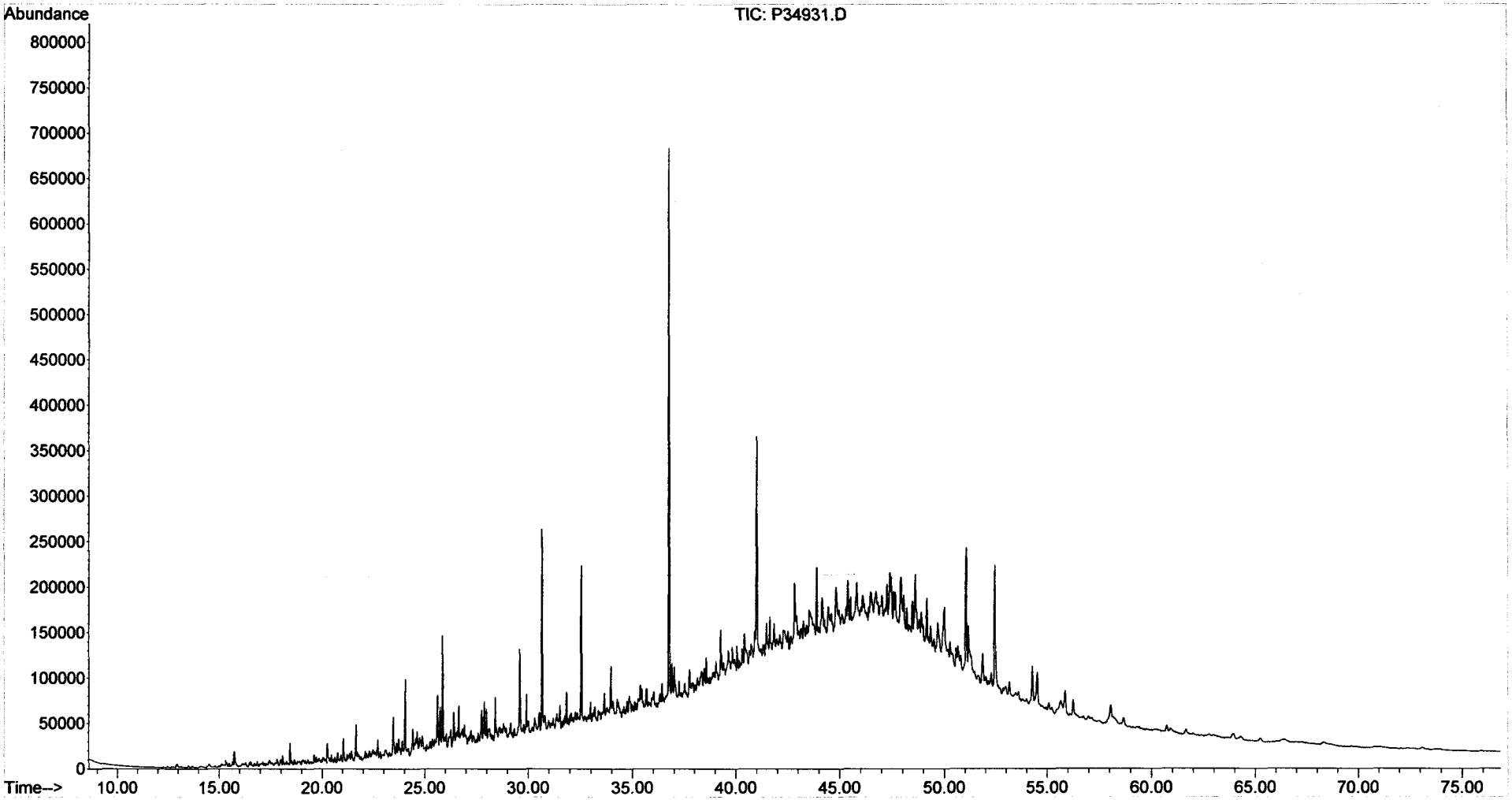
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
124) 13a,17b-20S-Ethyldiacholes	48.49	217	2566	64.51	ng/ml	100
125) 14a,17a-20S-Methylcholesta	48.66	217	8591m	215.98	ng/ml	
126) 14a,17a-20R-Methylcholesta	49.38	217	20871m	524.71	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	49.75	217	19840m	498.79	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	50.68	217	26323m	661.77	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	47.51	218	26668m	670.45	ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	47.60	218	26391m	663.48	ng/ml	
131) 14b,17b-20R-Methylcholesta	48.83	218	24885m	625.62	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.91	218	32013m	804.82	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.99	218	41835	1051.75	ng/ml	100
134) 14b(H),17b(H)-20S-Ethylcho	50.04	218	32619m	820.06	ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34931.D
Acq On : 2 Feb 2006 6:32 am
Operator : AC
Sample : 0601070-07
Misc : 1X
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 14 12:53:01 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-78B (2.5-5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-07E**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/03/06	43.8	10.80	18.1	10	AC

Parameter	Result		Parameter	Result	
Naphthalene	63	U	Fluoranthene	**62000**	
C1-Naphthalenes	63	U	Pyrene	**45000**	
C2-Naphthalenes	63	U	C1-Fluoranthenes/Pyrenes	34	U
C3-Naphthalenes	63	U	C2-Fluoranthenes/Pyrenes	34	U
C4-Naphthalenes	63	U	C3-Fluoranthenes/Pyrenes	34	U
Biphenyl	35	U	C4-Fluoranthenes/Pyrenes	34	U
Dibenzofuran	46	U	Naphthobenzothiophenes	46	U
Acenaphthylene	69	U	C1-Naphthobenzothiophenes	46	U
Acenaphthene	44	U	C2-Naphthobenzothiophenes	46	U
Fluorene	44	U	C3-Naphthobenzothiophenes	46	U
C1-Fluorenes	44	U	C4-Naphthobenzothiophenes	46	U
C2-Fluorenes	44	U	Benz[a]anthracene	60	U
C3-Fluorenes	44	U	Chrysene/Triphenylene	41	U
Anthracene	51	U	C1-Chrysenes	41	U
Phenanthrene	**39000**		C2-Chrysenes	41	U
C1-Phenanthrenes/Anthracenes	56	U	C3-Chrysenes	41	U
C2-Phenanthrenes/Anthracenes	56	U	C4-Chrysenes	41	U
C3-Phenanthrenes/Anthracenes	56	U	Benzo[b]fluoranthene	41	U
C4-Phenanthrenes/Anthracenes	56	U	Benzo[k]fluoranthene	78	U
Retene	56	U	Benzo[a]fluoranthene	78	U
Dibenzothiophene	42	U	Benzo[e]pyrene	52	U
C1-Dibenzothiophenes	42	U	Benzo[a]pyrene	53	U
C2-Dibenzothiophenes	42	U	Perylene	67	U
C3-Dibenzothiophenes	42	U	Indeno[1,2,3-cd]pyrene	92	U
C4-Dibenzothiophenes	42	U	Dibenz[a,h]anthracene	73	U
Benzo(b)fluorene	39	U	Benzo[g,h,i]perylene	67	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	74	50-130
Pyrene-d10	83	50-130
Benzo[b]fluoranthene-d12	84	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 19:59

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN31\
Data File : P17941.D
Acq On : 3 Feb 2006 7:46 am
Operator : AC
Sample : 0601070-07-RE
Misc : 10X
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Feb 14 11:30:39 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/14/06

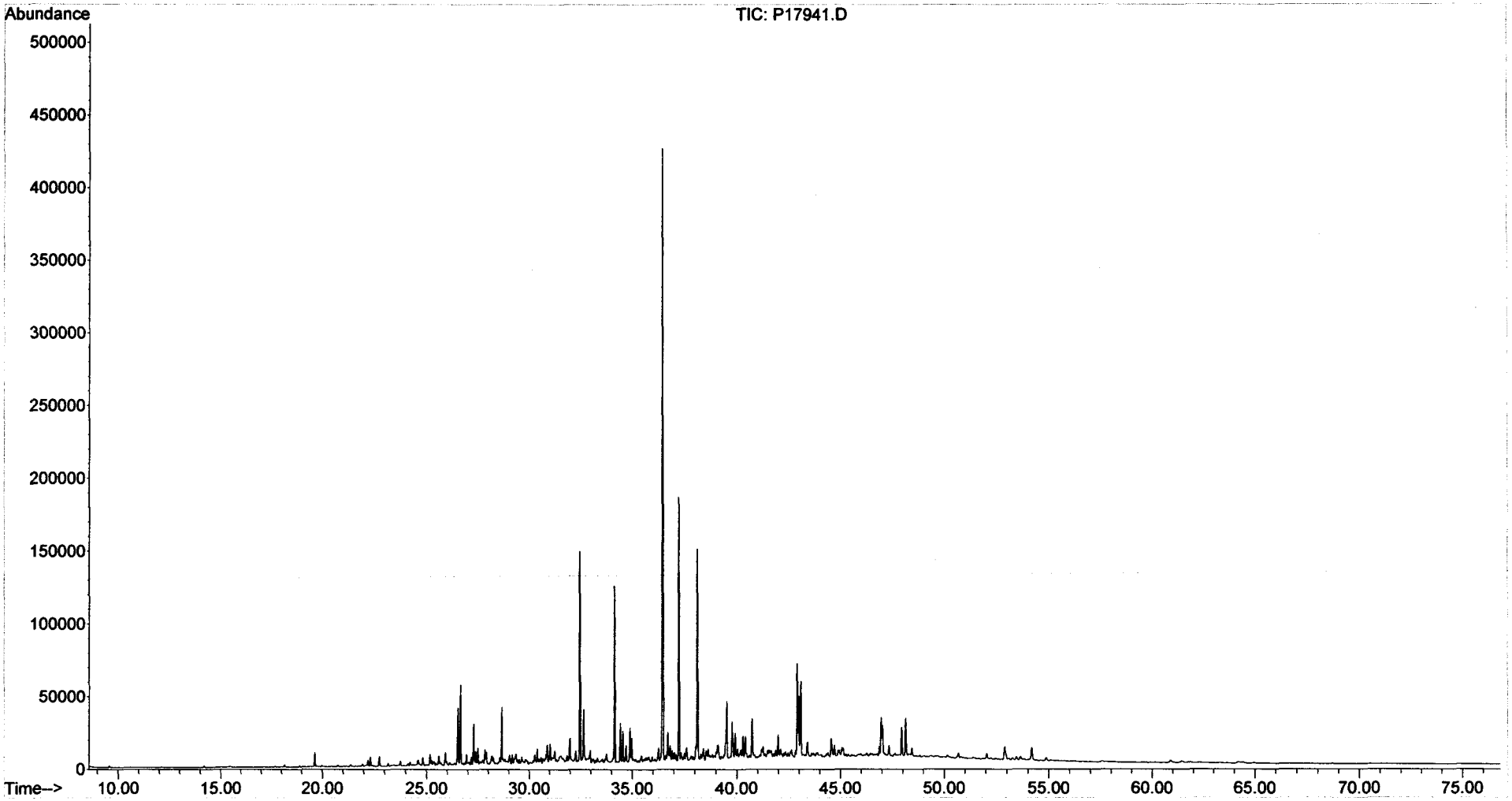
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.53	164	44628	500.00	ng/mL	-0.01
72) Chrysene-d12	42.99	240	73845	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.21	152	7868	82.24	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery =	8.22%#		
58) Pyrene-d10	38.07	212	18131	92.17	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	9.22%#		
81) Benzo[b]fluoranthene-d12	46.90	264	13572	92.29	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	9.23%#		
125) 5B(H)Cholane - Surr	43.63	217	2345	80.82	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	8.08%#		
Target Compounds						Qvalue
41) Phenanthrene	32.49	178	227368	1007.21	ng/mL	100
56) Fluoranthene	37.26	202	388005m	1614.29	ng/mL	
59) Pyrene	38.15	202	288516	1180.23	ng/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN31\
Data File : P17941.D
Acq On : 3 Feb 2006 7:46 am
Operator : AC
Sample : 0601070-07-RE
Misc : 10X
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Feb 14 11:30:39 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-76C (2.5-3.4)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-08**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/05/06	44.3	10.52	16.81	1	AC

Parameter	Result	Parameter	Result
Naphthalene	2400	Fluoranthene	29000
C1-Naphthalenes	1200	Pyrene	33000
C2-Naphthalenes	4100	C1-Fluoranthenes/Pyrenes	34000
C3-Naphthalenes	6300	C2-Fluoranthenes/Pyrenes	17000
C4-Naphthalenes	7000	C3-Fluoranthenes/Pyrenes	8200
Biphenyl	300	C4-Fluoranthenes/Pyrenes	3600
Dibenzofuran	640	Naphthobenzothiophenes	5000
Acenaphthylene	4000	C1-Naphthobenzothiophenes	5600
Acenaphthene	6100	C2-Naphthobenzothiophenes	4400
Fluorene	700	C3-Naphthobenzothiophenes	2600
C1-Fluorenes	3700	C4-Naphthobenzothiophenes	1300
C2-Fluorenes	8000	Benz[a]anthracene	15000
C3-Fluorenes	8600	Chrysene/Triphenylene	15000
Anthracene	9400	C1-Chrysenes	14000
Phenanthrene	4400	C2-Chrysenes	7900
C1-Phenanthrenes/Anthracenes	20000	C3-Chrysenes	5000
C2-Phenanthrenes/Anthracenes	26000	C4-Chrysenes	1900
C3-Phenanthrenes/Anthracenes	15000	Benzo[b]fluoranthene	8700
C4-Phenanthrenes/Anthracenes	5400	Benzo[k]fluoranthene	8300
Retene	1900	Benzo[a]fluoranthene	3100
Dibenzothiophene	1700	Benzo[e]pyrene	7600
C1-Dibenzothiophenes	4500	Benzo[a]pyrene	13000
C2-Dibenzothiophenes	9000	Perylene	2600
C3-Dibenzothiophenes	7600	Indeno[1,2,3-cd]pyrene	7200
C4-Dibenzothiophenes	3400	Dibenz[a,h]anthracene	2000
Benzo(b)fluorene	6400	Benzo[g,h,i]perylene	6600

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	73	50-130
Pyrene-d10	89	50-130
Benzo[b]fluoranthene-d12	86	50-130

N/A - Not Applicable

02/14/06 20:03

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-76C (2.5-3.4)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-08**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/05/06	44.3	10.52	16.81	1	AC

Parameter	Result
Carbazole	390

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	73	50-130
Pyrene-d10	89	50-130
Benzo[b]fluoranthene-d12	86	50-130

N/A - Not Applicable

02/14/06 20:03

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17989.D
Acq On : 5 Feb 2006 2:49 am
Operator : AC
Sample : 0601070-08
Misc : 1X
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 12 18:15:31 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

CMS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	47184m	500.00	ng/mL	-0.02
72) Chrysene-d12	43.00	240	87716	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.21	152	88035	870.31	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 87.03%			
58) Pyrene-d10	38.07	212	221390	1064.51	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 106.45%			
81) Benzo[b]fluoranthene-d12	46.90	264	178839	1023.84	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 102.38%			
125) 5B(H)Cholane - Surr	43.63	217	30995	899.28	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 89.93%			

Target Compounds						Qvalue
9) Naphthalene	19.63	128	157188	652.33	ng/mL#	100
10) C1-Naphthalenes	22.32	142	78206m	324.56	ng/mL	
11) C2-Naphthalenes	25.17	156	274429m	1138.88	ng/mL	
12) C3-Naphthalenes	27.84	170	422314m	1752.61	ng/mL	
13) C4-Naphthalenes	30.27	184	470497m	1952.57	ng/mL	
15) 2-Methylnaphthalene	22.32	142	41897	274.65	ng/mL#	100
16) 1-Methylnaphthalene	22.75	142	36614	254.95	ng/mL#	100
22) Biphenyl	24.20	154	15512	81.79	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.82	156	34771m	274.66	ng/mL	
24) Dibenzofuran	27.29	168	37533m	176.17	ng/mL	
25) Acenaphthylene	25.91	152	257253m	1113.44	ng/mL	
26) Acenaphthene	26.64	153	244420	1703.07	ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.20	170	27056m	238.07	ng/mL	
28) Fluorene	28.66	166	31074m	193.06	ng/mL	
29) C1-Fluorenes	30.89	180	164068m	1019.34	ng/mL	
30) C2-Fluorenes	33.08	194	357637m	2221.96	ng/mL	
31) C3-Fluorenes	35.08	208	383467m	2382.44	ng/mL	
32) Dibenzothiophene	31.99	184	111816	471.07	ng/mL#	78
36) OTP	34.20	198	26555	111.87	ng/mL#	100
37) C1-Dibenzothiophenes	33.76	198	325864m	1372.85	ng/mL	
38) C2-Dibenzothiophenes	35.46	212	595402m	2508.40	ng/mL	
39) C3-Dibenzothiophenes	37.27	226	497018m	2093.91	ng/mL	
40) C4-Dibenzothiophenes	38.95	240	223241m	940.50	ng/mL	
41) Phenanthrene	32.47	178	290520	1217.24	ng/mL	99
47) C1-Phenanthrenes/Anthracen	34.46	192	1345773m	5638.63	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.73	206	1720729m	7209.65	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.57	220	1000303m	4191.15	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.77	234	360378m	1509.94	ng/mL	
52) Retene	39.50	234	26856m	538.17	ng/mL	
53) Anthracene	32.66	178	574128	2599.94	ng/mL	100
54) Carbazole	33.33	167	22191m	108.58	ng/mL	
55) 1-Methylphenanthrene	35.00	192	213615	1307.13	ng/mL	99
56) Fluoranthene	37.27	202	2054984m	8086.59	ng/mL	
57) Benzo(b)fluorene	39.79	216	263270m	1775.17	ng/mL	
59) Pyrene	38.16	202	2370191	9170.48	ng/mL	99
60) C1-Fluoranthenes/Pyrenes	39.55	216	2435242m	9422.17	ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.01	230	1198001m	4635.17	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.49	244	586173m	2267.96	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.75	258	254758m	985.68	ng/mL	
64) Naphthobenzothiophene	42.00	234	208627	862.83	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17989.D
Acq On : 5 Feb 2006 2:49 am
Operator : AC
Sample : 0601070-08
Misc : 1X
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 12 18:15:31 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

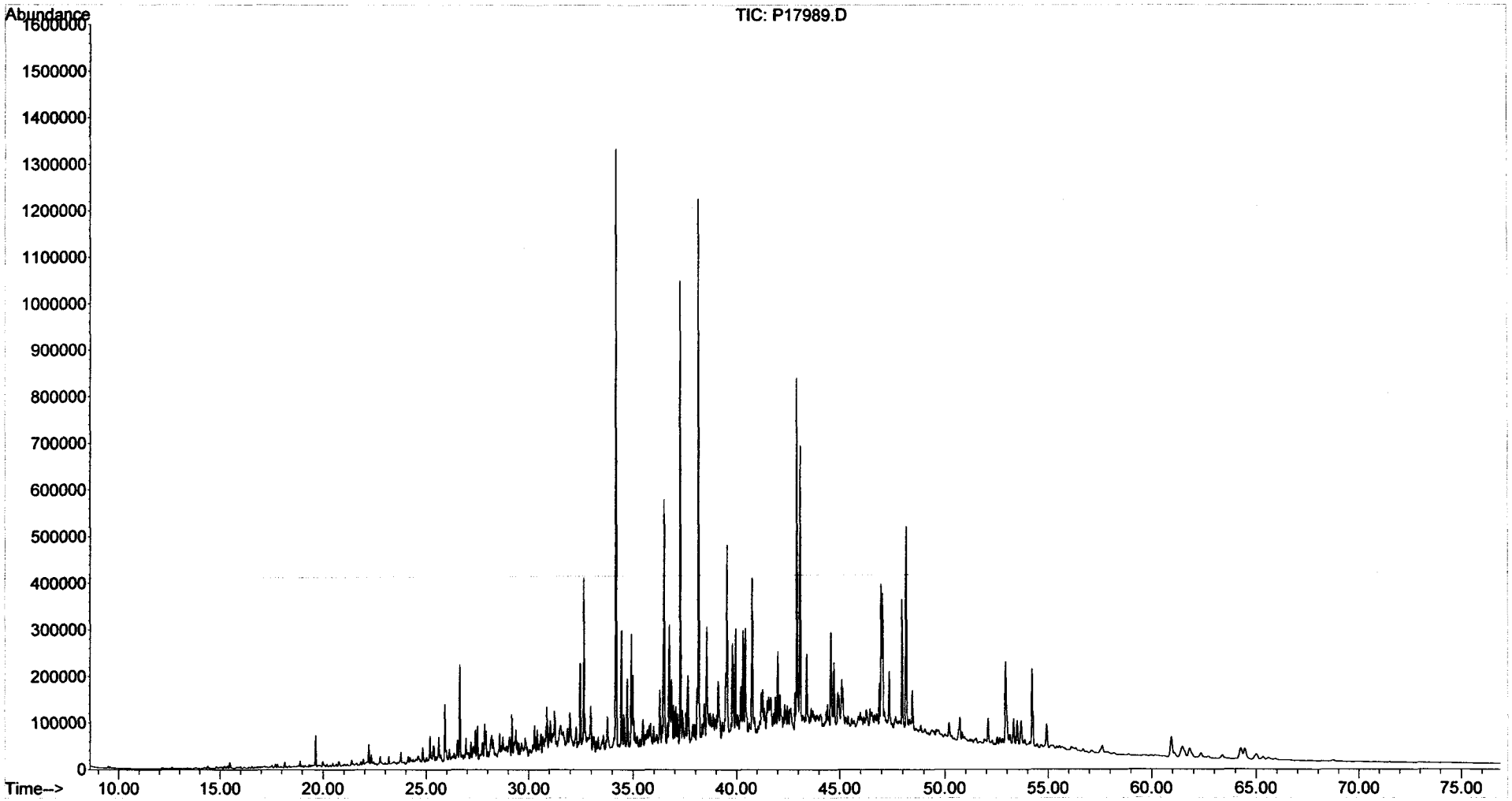
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Naphthobenzothiophene-2,1-	42.00	234	208627	862.83	ng/mL	97
66) Naphthobenzothiophene-1,2-	42.35	234	57725	238.74	ng/mL#	29
67) Naphthobenzothiophene-2,3-	42.64	234	65787m	272.08	ng/mL	
68) C1-Naphthobenzothiophenes	43.41	248	372221m	1539.42	ng/ml	
69) C2-Naphthobenzothiophenes	44.92	262	298416m	1234.18	ng/ml	
70) C3-Naphthobenzothiophenes	47.03	276	171337m	708.61	ng/ml	
71) C4-Naphthobenzothiophenes	48.09	290	84230m	348.36	ng/mL	
73) Benz[a]anthracene	42.94	228	1097447m	4110.05	ng/mL	
74) Chrysene	43.10	228	1105104m	4050.41	ng/mL	
75) Chrysene/Triphenylene	43.10	228	1104025m	4046.46	ng/mL	
76) C1-Chrysenes	44.58	242	1023742m	3752.20	ng/mL	
77) C2-Chrysenes	46.28	256	608745m	2231.16	ng/mL	
78) BBF-d12 Surr BKGD	46.90	256	13057	47.86	ng/mL	100
79) C3-Chrysenes	47.88	270	377942m	1385.23	ng/mL	
80) C4-Chrysenes	49.44	284	144275m	528.79	ng/mL	
82) Benzo[b]fluoranthene	46.99	252	662476	2415.80	ng/mL	99
83) Benzo[k]fluoranthene	47.07	252	656579	2301.47	ng/mL	98
84) Benzo[a]fluoranthene	47.37	252	246138m	862.78	ng/mL	
85) Benzo[e]pyrene	47.98	252	558992	2105.44	ng/mL	97
86) Benzo[a]pyrene	48.17	252	924890m	3520.84	ng/mL	
87) Perylene	48.48	252	183639	715.17	ng/mL	93
88) Indeno[1,2,3-cd]pyrene	52.93	276	460672m	1992.77	ng/mL	
89) Dibenz[a,h]anthracene	52.99	278	128049m	543.42	ng/mL	
90) Benzo[g,h,i]perylene	54.21	276	490588	1841.65	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17989.D
Acq On : 5 Feb 2006 2:49 am
Operator : AC
Sample : 0601070-08
Misc : 1X
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 12 18:15:31 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-76C (2.5-3.4)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-08**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/02/06	44.3	10.52	6.25	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**780**	30,31-Bishomohopane-22S	**1200**
C24 Tricyclic Terpane	**470**	30,31-Bishomohopane-22R	**810**
C25 Tricyclic Terpane	**480**	30,31-Trishomohopane-22S	**680**
C24 Tetracyclic Terpane	**430**	30,31-Trishomohopane-22R	**440**
C26 Tricyclic Terpane-22S	**210**	Tetrakishomohopane-22S	**430**
C26 Tricyclic Terpane-22R	**210**	Tetrakishomohopane-22R	**290**
C28 Tricyclic Terpane-22S	**240**	Pentakishomohopane-22S	**370**
C28 Tricyclic Terpane-22R	**260**	Pentakishomohopane-22R	**300**
C29 Tricyclic Terpane-22S	**300**	13b(H),17a(H)-20S-Diacholestane	**920**
C29 Tricyclic Terpane-22R	**310**	13b(H),17a(H)-20R-Diacholestane	**510**
18a-22,29,30-Trisnorneohopane-TS	**1200**	13b,17a-20S-Methyldiacholestane	**440**
C30 Tricyclic Terpane-22S	**230**	14a(H),17a(H)-20S-Cholestane	**570**
C30 Tricyclic Terpane-22R	**210**	14a(H),17a(H)-20R-Cholestane	**1700**
17a(H)-22,29,30-Trisnorhopane-TM	**1200**	13b,17a-20R-Ethyldiacholestane	**300**
17a/b,21b/a 28,30-Bisnorhopane	**260**	13a,17b-20S-Ethyldiacholestane	**93**
17a(H),21b(H)-25-Norhopane	**130**	14a,17a-20S-Methylcholestane	**340**
30-Norhopane	**3600**	14a,17a-20R-Methylcholestane	**770**
18a(H)-30-Norneohopane-C29Ts	**1000**	14a(H),17a(H)-20S-Ethylcholestane	**630**
17a(H)-Diahopane	**240**	14a(H),17a(H)-20R-Ethylcholestane	**860**
30-Normoretane	**670**	14b(H),17b(H)-20R-Cholestane	**840**
18a(H)&18b(H)-Oleananes	**550**	14b(H),17b(H)-20S-Cholestane	**860**
Hopane	**5300**	14b,17b-20R-Methylcholestane	**790**
Moretane	**750**	14b,17b-20S-Methylcholestane	**990**
30-Homohopane-22S	**1700**	14b(H),17b(H)-20R-Ethylcholestane	**1300**
30-Homohopane-22R	**1500**	14b(H),17b(H)-20S-Ethylcholestane	**1000**

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	68	50-130

N/A - Not Applicable

02/14/06 21:31

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34932.D
Acq On : 2 Feb 2006 8:03 am
Operator : AC
Sample : 0601070-08
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 14 12:58:55 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

MS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.42	240	101979	500.00	ng/mL	0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.92	217	92737	2163.76	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 216.38%#			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.48	191	348321m	3974.66	ng/mL	
84) Hopane (T19)	52.48	191	347873m	3969.55	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.93	191	50693m	578.45	ng/ml	
86) C24 Tricyclic Terpane (T5)	41.66	191	30998	353.72	ng/ml	100
87) C25 Tricyclic Terpane (T6)	43.15	191	31232m	356.39	ng/ml	
88) C24 Tetracyclic Terpane (T	44.47	191	28250m	322.36	ng/ml	
89) C26 Tricyclic Terpane-22S	44.21	191	13553	154.65	ng/ml	100
90) C26 Tricyclic Terpane-22R	44.31	191	13850	158.04	ng/ml	100
91) C28 Tricyclic Terpane-22S	46.59	191	15767m	179.92	ng/ml	
92) C28 Tricyclic Terpane-22R	46.76	191	16664m	190.15	ng/ml	
93) C29 Tricyclic Terpane-22S	47.27	191	19597	223.62	ng/ml	100
94) C29 Tricyclic Terpane-22R	47.48	191	20122m	229.61	ng/ml	
95) 18a-22,29,30-Trisnorneohop	48.63	191	76589m	873.95	ng/ml	
96) C30 Tricyclic Terpane-22S	48.72	191	14850	169.45	ng/mL	100
97) C30 Tricyclic Terpane-22R	48.97	191	13779m	157.23	ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	49.18	191	78464m	895.35	ng/ml	
99) 17a/b,21b/a 28,30-Bisnorho	50.40	191	17291m	197.31	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	50.18	191	8533m	97.37	ng/ml	
101) 30-Norhopane (T15)	51.08	191	233388m	2663.17	ng/ml	
102) 18a(H)-30-Norneohopane-C29	51.19	191	65391m	746.17	ng/ml	
103) 17a(H)-Diahopane (X)	51.32	191	15629m	178.34	ng/ml	
104) 30-Normoretane (T17)	51.88	191	43727	498.97	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	52.29	191	36237m	413.50	ng/ml	
106) Moretane (T20)	53.18	191	49000m	559.13	ng/ml	
107) 30-Homohopane-22S (T21)	54.29	191	113540	1295.60	ng/ml	100
108) 30-Homohopane-22R (T22)	54.53	191	98294	1121.62	ng/ml	100
109) 30,31-Bishomohopane-22S (T	55.88	191	80278	916.05	ng/ml	100
110) 30,31-Bishomohopane-22R (T	56.28	191	52788	602.36	ng/ml	100
111) 30,31-Trishomohopane-22S (	58.06	191	44716m	510.25	ng/ml	
112) 30,31-Trishomohopane-22R (	58.68	191	28957m	330.43	ng/ml	
113) Tetrakishomohopane-22S (T3	60.76	191	28083	320.45	ng/ml	100
114) Tetrakishomohopane-22R (T3	61.66	191	18981	216.59	ng/ml	100
115) Pentakishomohopane-22S (T3	63.95	191	24255m	276.77	ng/ml	
116) Pentakishomohopane-22R (T3	65.28	191	19566m	223.27	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	45.43	217	29349m	684.78	ng/ml	
119) 13b(H),17a(H)-20R-Diachole	45.84	217	16253m	379.22	ng/ml	
120) 13b,17a-20S-Methyldiachole	46.55	217	14178m	330.80	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	47.42	217	18270m	426.28	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.95	217	54525m	1272.19	ng/ml	
123) 13b,17a-20R-Ethyldiacholes	48.23	217	9695m	226.21	ng/ml	

√ MAL 2/15/06

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34932.D
Acq On : 2 Feb 2006 8:03 am
Operator : AC
Sample : 0601070-08
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 14 12:58:55 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

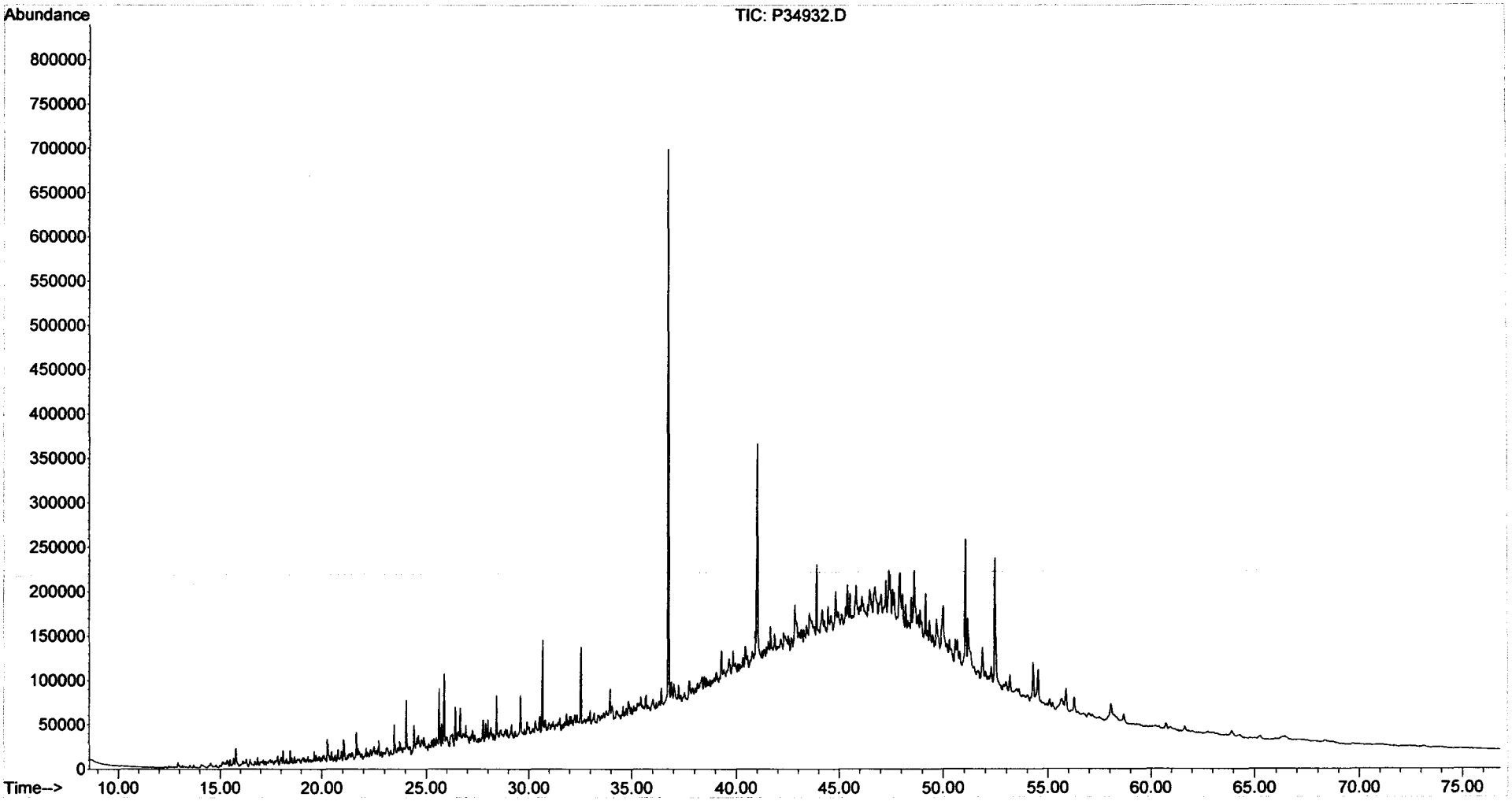
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
124) 13a,17b-20S-Ethyldiacholes	48.50	217	2979	69.51	ng/ml	100
125) 14a,17a-20S-Methylcholesta	48.66	217	10798m	251.94	ng/ml	
126) 14a,17a-20R-Methylcholesta	49.39	217	24712m	576.59	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	49.75	217	20017m	467.04	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	50.69	217	27569m	643.25	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	47.51	218	26745m	624.02	ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	47.60	218	27343m	637.97	ng/ml	
131) 14b,17b-20R-Methylcholesta	48.83	218	25137m	586.50	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.91	218	31736m	740.47	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.99	218	40260	939.35	ng/ml	100
134) 14b(H),17b(H)-20S-Ethylcho	50.04	218	33091m	772.09	ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34932.D
Acq On : 2 Feb 2006 8:03 am
Operator : AC
Sample : 0601070-08
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 14 12:58:55 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/05/06	44.6	10.22	6.58	1	AC

Parameter	Result	Parameter	Result
Naphthalene	510	Fluoranthene	13000
C1-Naphthalenes	290	Pyrene	12000
C2-Naphthalenes	410	C1-Fluoranthenes/Pyrenes	12000
C3-Naphthalenes	590	C2-Fluoranthenes/Pyrenes	5800
C4-Naphthalenes	950	C3-Fluoranthenes/Pyrenes	2700
Biphenyl	75	C4-Fluoranthenes/Pyrenes	1200
Dibenzofuran	150	Naphthobenzothiophenes	2000
Acenaphthylene	1600	C1-Naphthobenzothiophenes	1900
Acenaphthene	550	C2-Naphthobenzothiophenes	1400
Fluorene	220	C3-Naphthobenzothiophenes	940
C1-Fluorenes	600	C4-Naphthobenzothiophenes	510
C2-Fluorenes	1500	Benz[a]anthracene	5100
C3-Fluorenes	2300	Chrysene/Triphenylene	4800
Anthracene	1600	C1-Chrysenes	4600
Phenanthrene	1700	C2-Chrysenes	2500
C1-Phenanthrenes/Anthracenes	3300	C3-Chrysenes	1600
C2-Phenanthrenes/Anthracenes	5300	C4-Chrysenes	570
C3-Phenanthrenes/Anthracenes	3700	Benzo[b]fluoranthene	3500
C4-Phenanthrenes/Anthracenes	1400	Benzo[k]fluoranthene	3200
Retene	390	Benzo[a]fluoranthene	1100
Dibenzothiophene	250	Benzo[e]pyrene	3000
C1-Dibenzothiophenes	840	Benzo[a]pyrene	4300
C2-Dibenzothiophenes	2000	Perylene	900
C3-Dibenzothiophenes	1700	Indeno[1,2,3-cd]pyrene	2400
C4-Dibenzothiophenes	860	Dibenz[a,h]anthracene	640
Benzo(b)fluorene	2400	Benzo[g,h,i]perylene	2300

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	75	50-130
Pyrene-d10	87	50-130
Benzo[b]fluoranthene-d12	86	50-130

N/A - Not Applicable

02/14/06 21:11

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/05/06	44.6	10.22	6.58	1	AC

Parameter	Result
Carbazole	130

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	75	50-130
Pyrene-d10	87	50-130
Benzo[b]fluoranthene-d12	86	50-130

N/A - Not Applicable

02/14/06 21:12

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17991.D
Acq On : 5 Feb 2006 4:24 am
Operator : AC
Sample : 0601070-09
Misc : 1X
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 12 18:25:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	48874m	500.00	ng/mL	-0.02
72) Chrysene-d12	43.00	240	91152	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.21	152	239377	2284.65	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 228.47%#			
58) Pyrene-d10	38.07	212	570813	2649.73	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 264.97%#			
81) Benzo[b]fluoranthene-d12	46.92	264	473948	2611.04	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 261.10%#			
125) 5B(H)Cholane - Surr	43.63	217	83516	2331.77	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 233.18%#			

Target Compounds						Qvalue
9) Naphthalene	19.63	128	87669	351.25	ng/mL#	100
10) C1-Naphthalenes	22.32	142	50271m	201.41	ng/mL	
11) C2-Naphthalenes	25.17	156	71510m	286.51	ng/mL	
12) C3-Naphthalenes	27.86	170	102581m	410.99	ng/mL	
13) C4-Naphthalenes	30.27	184	164062m	657.32	ng/mL	
15) 2-Methylnaphthalene	22.32	142	31711	200.69	ng/mL#	100
16) 1-Methylnaphthalene	22.75	142	18600	125.04	ng/mL#	100
22) Biphenyl	24.21	154	10159	51.71	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.82	156	8933m	68.12	ng/mL	
24) Dibenzofuran	27.29	168	22261m	100.87	ng/mL	
25) Acenaphthylene	25.91	152	273161	1141.41	ng/mL#	100
26) Acenaphthene	26.64	153	56809	382.15	ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.20	170	5980m	50.80	ng/mL	
28) Fluorene	28.66	166	25716m	154.25	ng/mL	
29) C1-Fluorenes	31.25	180	69613m	417.54	ng/mL	
30) C2-Fluorenes	33.23	194	168683m	1011.77	ng/mL	
31) C3-Fluorenes	35.73	208	267339m	1603.52	ng/mL	
32) Dibenzothiophene	31.98	184	42811	174.12	ng/mL#	73
36) OTP	34.23	198	70645m	287.33	ng/mL	
37) C1-Dibenzothiophenes	33.76	198	213918m	870.06	ng/mL	
38) C2-Dibenzothiophenes	35.46	212	337579m	1373.02	ng/mL	
39) C3-Dibenzothiophenes	37.27	226	296206m	1204.75	ng/mL	
40) C4-Dibenzothiophenes	38.96	240	145635m	592.34	ng/mL	
41) Phenanthrene	32.47	178	284867	1152.29	ng/mL	100
47) C1-Phenanthrenes/Anthracen	34.93	192	566432m	2291.22	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.72	206	901982m	3648.52	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.57	220	638347m	2582.11	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.77	234	242456m	980.74	ng/mL	
52) Retene	39.50	234	13911m	269.13	ng/mL	
53) Anthracene	32.66	178	245030	1071.25	ng/mL	100
54) Carbazole	33.33	167	18656m	88.13	ng/mL	
55) 1-Methylphenanthrene	35.00	192	61526	363.46	ng/mL	98
56) Fluoranthene	37.27	202	2414037m	9171.02	ng/mL	
57) Benzo(b)fluorene	39.79	216	260649m	1696.72	ng/mL	
59) Pyrene	38.16	202	2301374	8596.33	ng/mL	99
60) C1-Fluoranthenes/Pyrenes	39.55	216	2132447m	7965.33	ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.01	230	1073859m	4011.19	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.49	244	502599m	1877.36	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.76	258	215032m	803.21	ng/mL	
64) Naphthobenzothiophene	42.00	234	218700	873.22	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17991.D
Acq On : 5 Feb 2006 4:24 am
Operator : AC
Sample : 0601070-09
Misc : 1X
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 12 18:25:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

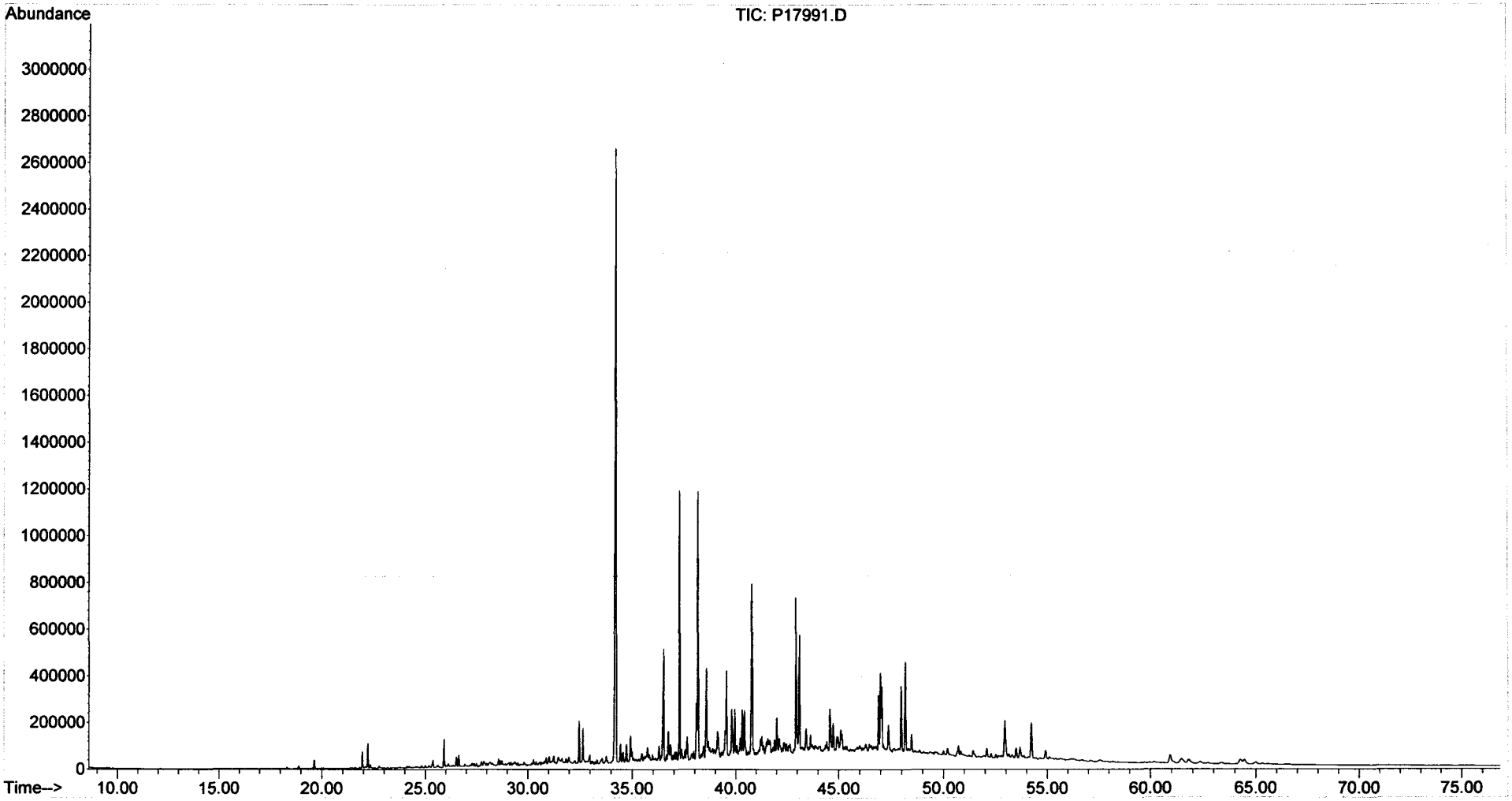
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Naphthobenzothiophene-2,1-	42.00	234	218700	873.22	ng/mL	99
66) Naphthobenzothiophene-1,2-	42.35	234	57310	228.82	ng/mL#	28
67) Naphthobenzothiophene-2,3-	42.64	234	61990m	247.51	ng/mL	
68) C1-Naphthobenzothiophenes	43.41	248	325711m	1300.48	ng/ml	
69) C2-Naphthobenzothiophenes	44.92	262	245015m	978.28	ng/ml	
70) C3-Naphthobenzothiophenes	47.03	276	162134m	647.36	ng/ml	
71) C4-Naphthobenzothiophenes	48.09	290	88794m	354.53	ng/mL	
73) Benz[a]anthracene	42.94	228	984231m	3547.10	ng/mL	
74) Chrysene	43.10	228	931493m	3285.40	ng/mL	
75) Chrysene/Triphenylene	43.10	228	936185m	3301.95	ng/mL	
76) C1-Chrysenes	44.58	242	892311m	3147.20	ng/mL	
77) C2-Chrysenes	46.28	256	517670m	1825.84	ng/mL	
78) BBF-d12 Surr BKGD	46.90	256	23429	82.63	ng/mL	100
79) C3-Chrysenes	47.88	270	307139m	1083.29	ng/mL	
80) C4-Chrysenes	49.37	284	111175m	392.12	ng/mL	
82) Benzo[b]fluoranthene	46.99	252	695737	2441.46	ng/mL	100
83) Benzo[k]fluoranthene	47.07	252	652763	2201.85	ng/mL	99
84) Benzo[a]fluoranthene	47.37	252	224424m	757.01	ng/mL	
85) Benzo[e]pyrene	47.98	252	562323	2038.15	ng/mL	98
86) Benzo[a]pyrene	48.17	252	809608m	2965.81	ng/mL	
87) Perylene	48.48	252	167093	626.20	ng/mL	97
88) Indeno[1,2,3-cd]pyrene	52.94	276	405660m	1688.65	ng/mL	
89) Dibenz[a,h]anthracene	52.99	278	109082m	445.48	ng/mL	
90) Benzo[g,h,i]perylene	54.21	276	438447	1583.87	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB03\
Data File : P17991.D
Acq On : 5 Feb 2006 4:24 am
Operator : AC
Sample : 0601070-09
Misc : 1X
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 12 18:25:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/02/06	44.6	10.22	2.11	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**180**	30,31-Bishomohopane-22S	**400**
C24 Tricyclic Terpane	**100**	30,31-Bishomohopane-22R	**250**
C25 Tricyclic Terpane	**120**	30,31-Trishomohopane-22S	**230**
C24 Tetracyclic Terpane	**140**	30,31-Trishomohopane-22R	**130**
C26 Tricyclic Terpane-22S	**48**	Tetrakishomohopane-22S	**140**
C26 Tricyclic Terpane-22R	**48**	Tetrakishomohopane-22R	**97**
C28 Tricyclic Terpane-22S	**61**	Pentakishomohopane-22S	**130**
C28 Tricyclic Terpane-22R	**61**	Pentakishomohopane-22R	**91**
C29 Tricyclic Terpane-22S	**74**	13b(H),17a(H)-20S-Diacholestane	**220**
C29 Tricyclic Terpane-22R	**70**	13b(H),17a(H)-20R-Diacholestane	**120**
18a-22,29,30-Trisnorneohopane-TS	**340**	13b,17a-20S-Methyldiacholestane	**110**
C30 Tricyclic Terpane-22S	**52**	14a(H),17a(H)-20S-Cholestane	**120**
C30 Tricyclic Terpane-22R	**56**	14a(H),17a(H)-20R-Cholestane	**440**
17a(H)-22,29,30-Trisnorhopane-TM	**330**	13b,17a-20R-Ethyldiacholestane	**72**
17a/b,21b/a 28,30-Bisnorhopane	**73**	13a,17b-20S-Ethyldiacholestane	**28**
17a(H),21b(H)-25-Norhopane	**30**	14a,17a-20S-Methylcholestane	**77**
30-Norhopane	**1100**	14a,17a-20R-Methylcholestane	**170**
18a(H)-30-Norneohopane-C29Ts	**280**	14a(H),17a(H)-20S-Ethylcholestane	**170**
17a(H)-Diahopane	**50**	14a(H),17a(H)-20R-Ethylcholestane	**240**
30-Normoretane	**150**	14b(H),17b(H)-20R-Cholestane	**230**
18a(H)&18b(H)-Oleananes	**110**	14b(H),17b(H)-20S-Cholestane	**240**
Hopane	**1400**	14b,17b-20R-Methylcholestane	**220**
Moretane	**140**	14b,17b-20S-Methylcholestane	**280**
30-Homohopane-22S	**560**	14b(H),17b(H)-20R-Ethylcholestane	**400**
30-Homohopane-22R	**470**	14b(H),17b(H)-20S-Ethylcholestane	**280**

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	59	50-130

N/A - Not Applicable

02/14/06 21:31

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34933.D
Acq On : 2 Feb 2006 9:34 am
Operator : AC
Sample : 0601070-09
Misc : 1X
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 14 13:06:54 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

MS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.42	240	103329	500.00	ng/mL	0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
117) 5B(H)Cholane - Surr	43.92	217	244772	5636.45	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	563.64%#	

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.48	191	259968m	2927.72	ng/mL	
84) Hopane (T19)	52.48	191	259454m	2921.93	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.93	191	35377m	398.41	ng/ml	
86) C24 Tricyclic Terpane (T5)	41.66	191	19873m	223.81	ng/ml	
87) C25 Tricyclic Terpane (T6)	43.15	191	22165m	249.62	ng/ml	
88) C24 Tetracyclic Terpane (T	44.48	191	26450	297.88	ng/ml	100
89) C26 Tricyclic Terpane-22S	44.20	191	9092	102.39	ng/ml	100
90) C26 Tricyclic Terpane-22R	44.31	191	9099	102.47	ng/ml	100
91) C28 Tricyclic Terpane-22S	46.59	191	11715m	131.93	ng/ml	
92) C28 Tricyclic Terpane-22R	46.75	191	11685m	131.59	ng/ml	
93) C29 Tricyclic Terpane-22S	47.27	191	14234	160.30	ng/ml	100
94) C29 Tricyclic Terpane-22R	47.47	191	13315m	149.95	ng/ml	
95) 18a-22,29,30-Trisnorneohop	48.62	191	64665	728.25	ng/ml	100
96) C30 Tricyclic Terpane-22S	48.72	191	9931	111.84	ng/mL	100
97) C30 Tricyclic Terpane-22R	48.96	191	10629m	119.70	ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	49.19	191	62998	709.47	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	50.40	191	14069m	158.44	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	50.18	191	5740m	64.64	ng/ml	
101) 30-Norhopane (T15)	51.08	191	214783m	2418.85	ng/ml	
102) 18a(H)-30-Norneohopane-C29	51.19	191	52866m	595.37	ng/ml	
103) 17a(H)-Diahopane (X)	51.31	191	9503m	107.02	ng/ml	
104) 30-Normoretane (T17)	51.87	191	29026	326.89	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	52.29	191	21200	238.75	ng/ml	100
106) Moretane (T20)	53.17	191	27046m	304.59	ng/ml	
107) 30-Homohopane-22S (T21)	54.29	191	106503m	1199.42	ng/ml	
108) 30-Homohopane-22R (T22)	54.53	191	90409	1018.17	ng/ml	100
109) 30,31-Bishomohopane-22S (T	55.88	191	75785	853.48	ng/ml	100
110) 30,31-Bishomohopane-22R (T	56.28	191	47271	532.36	ng/ml	100
111) 30,31-Trishomohopane-22S (	58.05	191	43939m	494.83	ng/ml	
112) 30,31-Trishomohopane-22R (	58.68	191	25702m	289.45	ng/ml	
113) Tetrakishomohopane-22S (T3	60.74	191	27539	310.14	ng/ml	100
114) Tetrakishomohopane-22R (T3	61.65	191	18613	209.62	ng/ml	100
115) Pentakishomohopane-22S (T3	63.95	191	24845m	279.80	ng/ml	
116) Pentakishomohopane-22R (T3	65.27	191	17468m	196.72	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	45.42	217	20235m	465.96	ng/ml	
119) 13b(H),17a(H)-20R-Diachole	45.84	217	11244	258.92	ng/ml	100
120) 13b,17a-20S-Methyldiachole	46.55	217	9900m	227.97	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	47.42	217	11461m	263.92	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.95	217	41366	952.55	ng/ml	100
123) 13b,17a-20R-Ethyldiacholes	48.23	217	6711m	154.54	ng/ml	

✓ MAU 2/15/06

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34933.D
Acq On : 2 Feb 2006 9:34 am
Operator : AC
Sample : 0601070-09
Misc : 1X
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 14 13:06:54 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

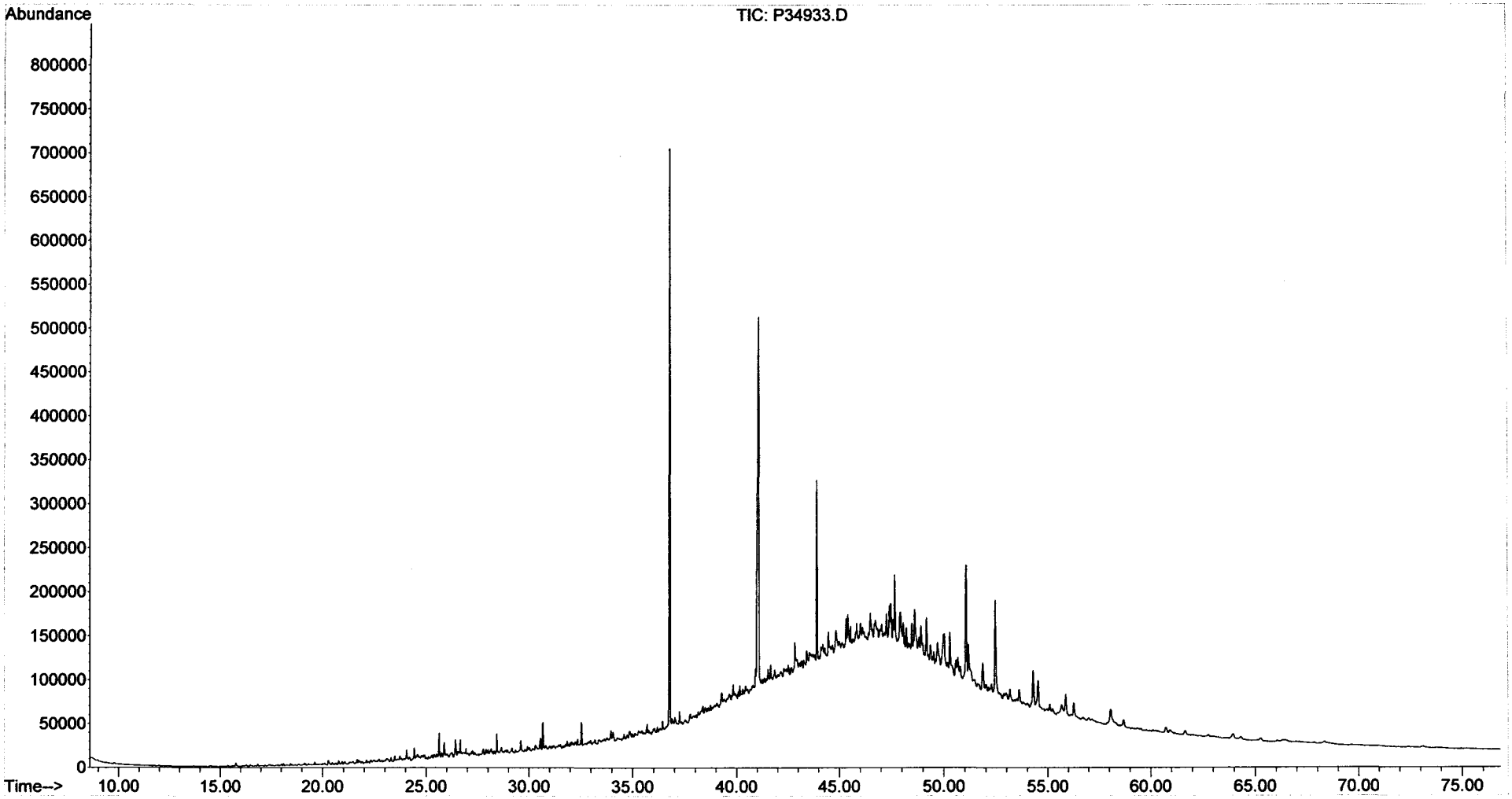
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
124) 13a,17b-20S-Ethyldiacholes	48.50	217	2675	61.60	ng/ml	100
125) 14a,17a-20S-Methylcholesta	48.66	217	7210m	166.03	ng/ml	
126) 14a,17a-20R-Methylcholesta	49.39	217	16352m	376.54	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	49.75	217	15894m	366.00	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	50.68	217	22812m	525.30	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	47.51	218	21705	499.81	ng/ml	100
130) 14b(H),17b(H)-20S-Cholesta	47.60	218	22305m	513.63	ng/ml	
131) 14b,17b-20R-Methylcholesta	48.83	218	21084m	485.51	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.92	218	26566m	611.74	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.99	218	37994m	874.90	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	50.04	218	25900m	596.41	ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34933.D
Acq On : 2 Feb 2006 9:34 am
Operator : AC
Sample : 0601070-09
Misc : 1X
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 14 13:06:54 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration



Form I
Duplicate
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09 D**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/05/06	44.6	10.16	5.85	1	AC

Parameter	Result	Parameter	Result
Naphthalene	490	Fluoranthene	12000
C1-Naphthalenes	290	Pyrene	12000
C2-Naphthalenes	410	C1-Fluoranthenes/Pyrenes	11000
C3-Naphthalenes	610	C2-Fluoranthenes/Pyrenes	5700
C4-Naphthalenes	940	C3-Fluoranthenes/Pyrenes	2600
Biphenyl	71	C4-Fluoranthenes/Pyrenes	1100
Dibenzofuran	140	Naphthobenzothiophenes	1900
Acenaphthylene	1600	C1-Naphthobenzothiophenes	1900
Acenaphthene	560	C2-Naphthobenzothiophenes	1400
Fluorene	220	C3-Naphthobenzothiophenes	930
C1-Fluorenes	620	C4-Naphthobenzothiophenes	500
C2-Fluorenes	1500	Benz[a]anthracene	5200
C3-Fluorenes	1800	Chrysene/Triphenylene	4700
Anthracene	1600	C1-Chrysenes	4600
Phenanthrene	1500	C2-Chrysenes	2600
C1-Phenanthrenes/Anthracenes	3400	C3-Chrysenes	1600
C2-Phenanthrenes/Anthracenes	5200	C4-Chrysenes	590
C3-Phenanthrenes/Anthracenes	3600	Benzo[b]fluoranthene	3600
C4-Phenanthrenes/Anthracenes	1400	Benzo[k]fluoranthene	3200
Retene	370	Benzo[a]fluoranthene	1200
Dibenzothiophene	250	Benzo[e]pyrene	3000
C1-Dibenzothiophenes	900	Benzo[a]pyrene	4400
C2-Dibenzothiophenes	2000	Perylene	950
C3-Dibenzothiophenes	1700	Indeno[1,2,3-cd]pyrene	2600
C4-Dibenzothiophenes	840	Dibenz[a,h]anthracene	690
Benzo(b)fluorene	2400	Benzo[g,h,i]perylene	2400

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	74	50-130
Pyrene-d10	87	50-130
Benzo[b]fluoranthene-d12	88	50-130

N/A - Not Applicable

02/14/06 21:13

Form I
Duplicate
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09 D**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/05/06	44.6	10.16	5.85	1	AC

Parameter	Result
Carbazole	120

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	74	50-130
Pyrene-d10	87	50-130
Benzo[b]fluoranthene-d12	88	50-130

N/A - Not Applicable

02/14/06 21:14

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17993.D
Acq On : 5 Feb 2006 5:59 am
Operator : AC
Sample : 0601070-09D
Misc : 1X
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 14 11:39:37 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.53	164	46142	500.00	ng/mL	-0.01
72) Chrysene-d12	43.00	240	84042	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.21	152	251331	2540.77	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 254.08%#			
58) Pyrene-d10	38.08	212	604718	2973.33	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 297.33%#			
81) Benzo[b]fluoranthene-d12	46.92	264	500809	2992.43	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 299.24%#			
125) 5B(H)Cholane - Surr	43.63	217	87385	2646.20	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 264.62%#			

Target Compounds						Qvalue
9) Naphthalene	19.63	128	89632	380.37	ng/mL#	100
10) C1-Naphthalenes	22.32	142	52247m	221.72	ng/mL	
11) C2-Naphthalenes	25.17	156	74404m	315.75	ng/mL	
12) C3-Naphthalenes	27.86	170	111402m	472.76	ng/mL	
13) C4-Naphthalenes	30.27	184	171497m	727.79	ng/mL	
15) 2-Methylnaphthalene	22.32	142	33035	221.45	ng/mL#	100
16) 1-Methylnaphthalene	22.75	142	19281	137.29	ng/mL#	100
22) Biphenyl	24.21	154	10225	55.13	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.82	156	8826m	71.29	ng/mL	
24) Dibenzofuran	27.29	168	21985m	105.52	ng/mL	
25) Acenaphthylene	25.91	152	279120m	1235.37	ng/mL	
26) Acenaphthene	26.64	153	60735	432.75	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.20	170	6980m	62.81	ng/mL	
28) Fluorene	28.66	166	26608m	169.05	ng/mL	
29) C1-Fluorenes	31.26	180	75937m	482.44	ng/mL	
30) C2-Fluorenes	33.23	194	179477m	1140.25	ng/mL	
31) C3-Fluorenes	35.73	208	213609m	1357.10	ng/mL	
32) Dibenzothiophene	31.98	184	45298	195.15	ng/mL#	75
36) OTP	34.23	198	75160m	323.80	ng/mL	
37) C1-Dibenzothiophenes	33.76	198	237119m	1021.53	ng/mL	
38) C2-Dibenzothiophenes	35.46	212	355900m	1533.25	ng/mL	
39) C3-Dibenzothiophenes	37.27	226	305593m	1316.52	ng/mL	
40) C4-Dibenzothiophenes	38.96	240	150429m	648.06	ng/mL	
41) Phenanthrene	32.47	178	268697	1151.23	ng/mL	100
47) C1-Phenanthrenes/Anthracen	34.93	192	623659m	2672.07	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.72	206	934579m	4004.20	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.57	220	650592m	2787.46	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.77	234	248109m	1063.02	ng/mL	
52) Retene	39.50	234	14058m	288.07	ng/mL	
53) Anthracene	32.66	178	261223	1209.66	ng/mL	100
54) Carbazole	33.33	167	18142m	90.77	ng/mL	
55) 1-Methylphenanthrene	35.00	192	66275	414.70	ng/mL	97
56) Fluoranthene	37.27	202	2324979m	9355.66	ng/mL	
57) Benzo(b)fluorene	39.79	216	268667m	1852.47	ng/mL	
59) Pyrene	38.16	202	2297285	9089.12	ng/mL	100
60) C1-Fluoranthenes/Pyrenes	39.55	216	2222810m	8794.47	ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.01	230	1122527m	4441.24	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.49	244	518141m	2050.01	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.75	258	221087m	874.72	ng/mL	
64) Naphthobenzothiophene	42.00	234	222010	938.92	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17993.D
Acq On : 5 Feb 2006 5:59 am
Operator : AC
Sample : 0601070-09D
Misc : 1X
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 14 11:39:37 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

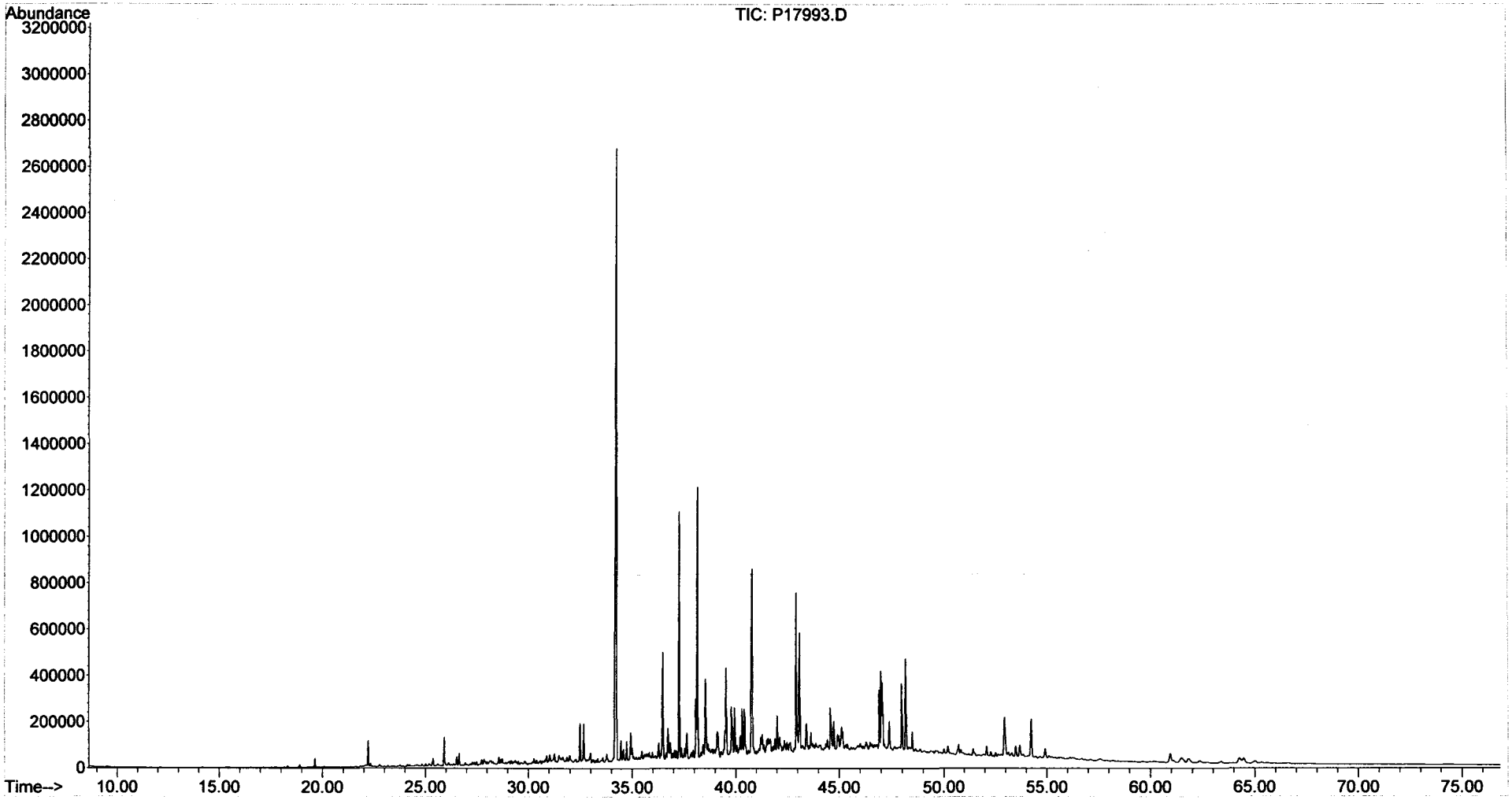
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Naphthobenzothiophene-2,1-	42.00	234	222010	938.92	ng/mL	99
66) Naphthobenzothiophene-1,2-	42.35	234	58576	247.73	ng/mL#	29
67) Naphthobenzothiophene-2,3-	42.64	234	66884m	282.86	ng/mL	
68) C1-Naphthobenzothiophenes	43.41	248	339995m	1437.89	ng/ml	
69) C2-Naphthobenzothiophenes	44.92	262	255295m	1079.68	ng/ml	
70) C3-Naphthobenzothiophenes	47.03	276	169780m	718.03	ng/ml	
71) C4-Naphthobenzothiophenes	48.11	290	91526m	387.08	ng/mL	
73) Benz[a]anthracene	42.94	228	1023794m	4001.83	ng/mL	
74) Chrysene	43.10	228	947364m	3624.06	ng/mL	
75) Chrysene/Triphenylene	43.10	228	949522m	3632.31	ng/mL	
76) C1-Chrysenes	44.58	242	929809m	3556.90	ng/mL	
77) C2-Chrysenes	46.28	256	554362m	2120.66	ng/mL	
78) BBF-d12 Surr BKGD	46.92	256	24863	95.11	ng/mL	100
79) C3-Chrysenes	47.88	270	319562m	1222.46	ng/mL	
80) C4-Chrysenes	49.44	284	118928m	454.95	ng/mL	
82) Benzo[b]fluoranthene	46.99	252	721145	2744.71	ng/mL	100
83) Benzo[k]fluoranthene	47.07	252	685459	2507.74	ng/mL	99
84) Benzo[a]fluoranthene	47.37	252	243257m	889.95	ng/mL	
85) Benzo[e]pyrene	47.98	252	596632	2345.45	ng/mL	97
86) Benzo[a]pyrene	48.18	252	864249m	3433.82	ng/mL	
87) Perylene	48.48	252	180192	732.42	ng/mL	96
88) Indeno[1,2,3-cd]pyrene	52.94	276	441885m	1995.06	ng/mL	
89) Dibenz[a,h]anthracene	52.99	278	120140m	532.15	ng/mL	
90) Benzo[g,h,i]perylene	54.23	276	469702	1840.33	ng/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17993.D
Acq On : 5 Feb 2006 5:59 am
Operator : AC
Sample : 0601070-09D
Misc : 1X
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 14 11:39:37 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Form I
Duplicate
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09 D**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/02/06	44.6	10.16	2.11	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**160**	30,31-Bishomohopane-22S	**370**
C24 Tricyclic Terpane	**92**	30,31-Bishomohopane-22R	**210**
C25 Tricyclic Terpane	**100**	30,31-Trishomohopane-22S	**200**
C24 Tetracyclic Terpane	**120**	30,31-Trishomohopane-22R	**120**
C26 Tricyclic Terpane-22S	**42**	Tetrakishomohopane-22S	**120**
C26 Tricyclic Terpane-22R	**41**	Tetrakishomohopane-22R	**88**
C28 Tricyclic Terpane-22S	**51**	Pentakishomohopane-22S	**120**
C28 Tricyclic Terpane-22R	**50**	Pentakishomohopane-22R	**81**
C29 Tricyclic Terpane-22S	**63**	13b(H),17a(H)-20S-Diacholestane	**190**
C29 Tricyclic Terpane-22R	**63**	13b(H),17a(H)-20R-Diacholestane	**100**
18a-22,29,30-Trisnorneohopane-TS	**280**	13b,17a-20S-Methyldiacholestane	**80**
C30 Tricyclic Terpane-22S	**52**	14a(H),17a(H)-20S-Cholestane	**98**
C30 Tricyclic Terpane-22R	**47**	14a(H),17a(H)-20R-Cholestane	**380**
17a(H)-22,29,30-Trisnorhopane-TM	**290**	13b,17a-20R-Ethyldiacholestane	**63**
17a/b,21b/a 28,30-Bisnorhopane	**77**	13a,17b-20S-Ethyldiacholestane	**25**
17a(H),21b(H)-25-Norhopane	**27**	14a,17a-20S-Methylcholestane	**59**
30-Norhopane	**990**	14a,17a-20R-Methylcholestane	**150**
18a(H)-30-Norneohopane-C29Ts	**220**	14a(H),17a(H)-20S-Ethylcholestane	**150**
17a(H)-Diahopane	**41**	14a(H),17a(H)-20R-Ethylcholestane	**210**
30-Normoretane	**130**	14b(H),17b(H)-20R-Cholestane	**200**
18a(H)&18b(H)-Oleananes	**94**	14b(H),17b(H)-20S-Cholestane	**200**
Hopane	**1200**	14b,17b-20R-Methylcholestane	**180**
Moretane	**130**	14b,17b-20S-Methylcholestane	**250**
30-Homohopane-22S	**480**	14b(H),17b(H)-20R-Ethylcholestane	**360**
30-Homohopane-22R	**410**	14b(H),17b(H)-20S-Ethylcholestane	**230**

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	52	50-130

N/A - Not Applicable

02/14/06 21:31

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34934.D
Acq On : 2 Feb 2006 11:06 am
Operator : AC
Sample : 0601070-09D
Misc : 1X
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 14 13:14:41 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

AMS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.42	240	98416	500.00	ng/mL	0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.92	217	205270	4962.79	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 496.28%#			

✓ MH 2/15/6

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.47	191	215411m	2547.03	ng/mL	
84) Hopane (T19)	52.47	191	214743m	2539.13	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.93	191	29354m	347.08	ng/ml	
86) C24 Tricyclic Terpane (T5)	41.66	191	16679	197.21	ng/ml	100
87) C25 Tricyclic Terpane (T6)	43.15	191	18162m	214.75	ng/ml	
88) C24 Tetracyclic Terpane (T	44.47	191	21703	256.62	ng/ml	100
89) C26 Tricyclic Terpane-22S	44.20	191	7673	90.73	ng/ml	100
90) C26 Tricyclic Terpane-22R	44.30	191	7473	88.36	ng/ml	100
91) C28 Tricyclic Terpane-22S	46.59	191	9313m	110.12	ng/ml	
92) C28 Tricyclic Terpane-22R	46.75	191	9143m	108.11	ng/ml	
93) C29 Tricyclic Terpane-22S	47.27	191	11348	134.18	ng/ml	100
94) C29 Tricyclic Terpane-22R	47.47	191	11487m	135.82	ng/ml	
95) 18a-22,29,30-Trisnorneohop	48.62	191	50956m	602.51	ng/ml	
96) C30 Tricyclic Terpane-22S	48.71	191	9507	112.41	ng/mL	100
97) C30 Tricyclic Terpane-22R	48.96	191	8573m	101.37	ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	49.18	191	53039	627.13	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	50.40	191	14015m	165.71	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	50.18	191	4978	58.86	ng/ml	100
101) 30-Norhopane (T15)	51.07	191	179126m	2117.99	ng/ml	
102) 18a(H)-30-Norneohopane-C29	51.19	191	39813m	470.75	ng/ml	
103) 17a(H)-Diahopane (X)	51.30	191	7499	88.67	ng/ml	100
104) 30-Normoretane (T17)	51.87	191	24198	286.12	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	52.28	191	17043	201.52	ng/ml	100
106) Moretane (T20)	53.17	191	23256m	274.98	ng/ml	
107) 30-Homohopane-22S (T21)	54.29	191	87116m	1030.06	ng/ml	
108) 30-Homohopane-22R (T22)	54.53	191	74089	876.03	ng/ml	100
109) 30,31-Bishomohopane-22S (T	55.87	191	67612	799.45	ng/ml	100
110) 30,31-Bishomohopane-22R (T	56.26	191	38218	451.89	ng/ml	100
111) 30,31-Trishomohopane-22S (	58.06	191	36476m	431.29	ng/ml	
112) 30,31-Trishomohopane-22R (	58.68	191	21521m	254.46	ng/ml	
113) Tetrakishomohopane-22S (T3	60.74	191	21914	259.11	ng/ml	100
114) Tetrakishomohopane-22R (T3	61.65	191	15933	188.39	ng/ml	100
115) Pentakishomohopane-22S (T3	63.94	191	21983	259.93	ng/ml	100
116) Pentakishomohopane-22R (T3	65.25	191	14766m	174.59	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	45.42	217	16747	404.89	ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	45.84	217	9108	220.20	ng/ml	100
120) 13b,17a-20S-Methyldiachole	46.54	217	7082	171.22	ng/ml	100
121) 14a(H),17a(H)-20S-Cholesta	47.42	217	8676m	209.76	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.95	217	33376	806.93	ng/ml	100
123) 13b,17a-20R-Ethyldiacholes	48.22	217	5618m	135.83	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34934.D
Acq On : 2 Feb 2006 11:06 am
Operator : AC
Sample : 0601070-09D
Misc : 1X
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 14 13:14:41 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

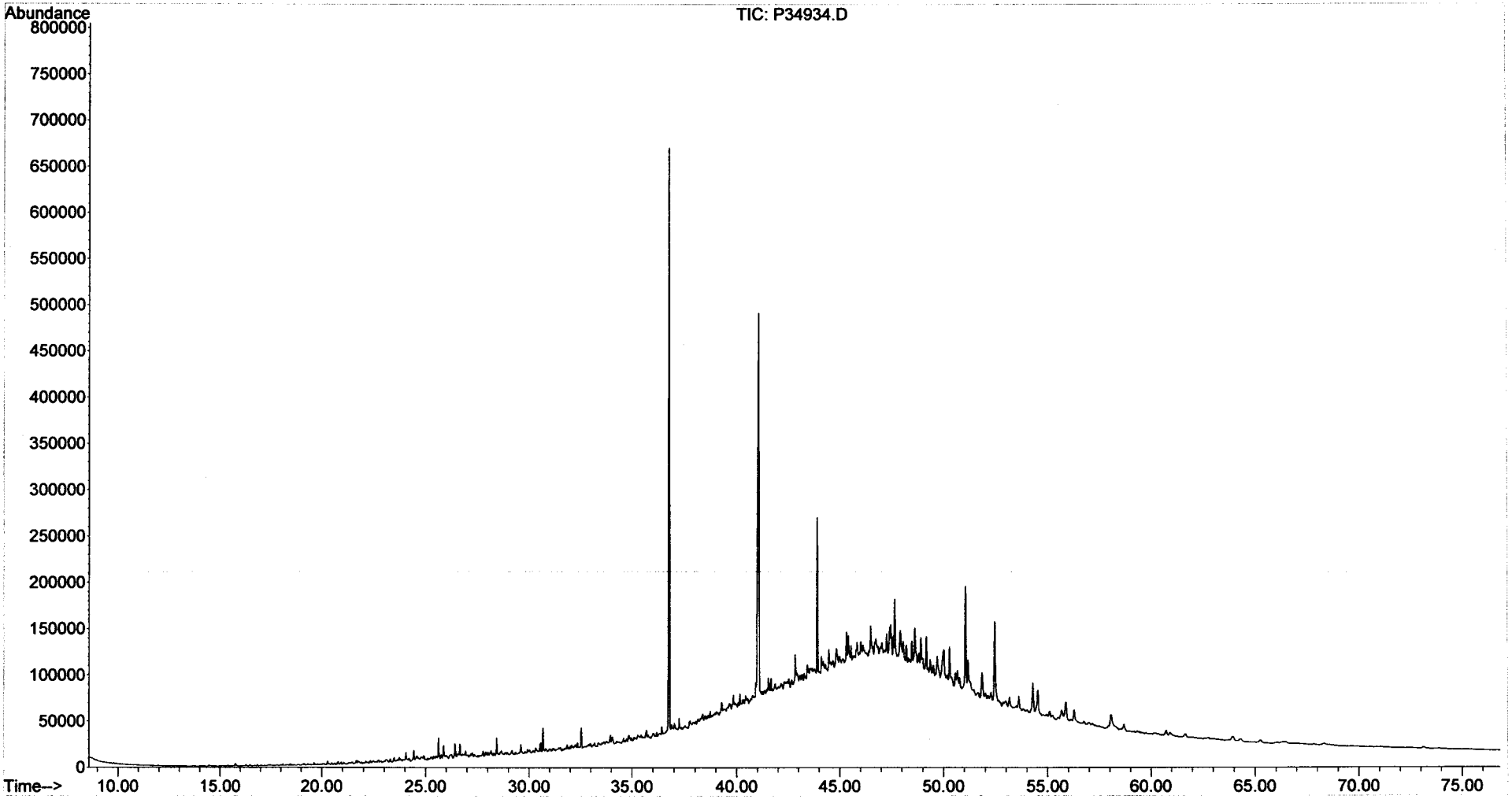
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
124) 13a,17b-20S-Ethyldiacholes	48.49	217	2182m	52.75	ng/ml	
125) 14a,17a-20S-Methylcholesta	48.66	217	5199m	125.70	ng/ml	
126) 14a,17a-20R-Methylcholesta	49.38	217	13049m	315.48	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	49.74	217	13089m	316.45	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	50.67	217	18640m	450.66	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	47.51	218	17883	432.36	ng/ml	100
130) 14b(H),17b(H)-20S-Cholesta	47.60	218	17681m	427.47	ng/ml	
131) 14b,17b-20R-Methylcholesta	48.83	218	16005m	386.95	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.90	218	22329m	539.85	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.99	218	32105	776.20	ng/ml	100
134) 14b(H),17b(H)-20S-Ethylcho	50.04	218	20575m	497.44	ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34934.D
Acq On : 2 Feb 2006 11:06 am
Operator : AC
Sample : 0601070-09D
Misc : 1X
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 14 13:14:41 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration



Duplicate
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
01/25/06	01/26/06	01/26/06	44.6	AC

Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
Naphthalene	510	490	3	30
C1-Naphthalenes	290	290	2	30
C2-Naphthalenes	410	410	1	30
C3-Naphthalenes	590	610	3	30
C4-Naphthalenes	950	940	1	30
Biphenyl	75	71	5	30
Dibenzofuran	150	140	7	30
Acenaphthylene	1600	1600	3	30
Acenaphthene	550	560	1	30
Fluorene	220	220	2	30
C1-Fluorenes	600	620	3	30
C2-Fluorenes	1500	1500	1	30
C3-Fluorenes	2300	1800	28	30
Anthracene	1600	1600	1	30
Phenanthrene	1700	1500	11	30
C1-Phenanthrenes/Anthracenes	3300	3400	4	30
C2-Phenanthrenes/Anthracenes	5300	5200	2	30
C3-Phenanthrenes/Anthracenes	3700	3600	4	30
C4-Phenanthrenes/Anthracenes	1400	1400	3	30
Retene	390	370	4	30
Dibenzothiophene	250	250	0	30
C1-Dibenzothiophenes	840	900	7	30
C2-Dibenzothiophenes	2000	2000	0	30
C3-Dibenzothiophenes	1700	1700	2	30
C4-Dibenzothiophenes	860	840	2	30
Benzo(b)fluorene	2400	2400	2	30
Fluoranthene	13000	12000	9	30
Pyrene	12000	12000	6	30
C1-Fluoranthenes/Pyrenes	12000	11000	1	30
C2-Fluoranthenes/Pyrenes	5800	5700	1	30
C3-Fluoranthenes/Pyrenes	2700	2600	2	30
C4-Fluoranthenes/Pyrenes	1200	1100	3	30
Naphthobenzothiophenes	2000	1900	3	30
C1-Naphthobenzothiophenes	1900	1900	1	30
C2-Naphthobenzothiophenes	1400	1400	1	30

N/A - Not Applicable

02/14/06 21:05

Duplicate
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
01/25/06	01/26/06	01/26/06	44.6	AC

Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
C3-Naphthobenzothiophenes	940	930	1	30
C4-Naphthobenzothiophenes	510	500	2	30
Benz[a]anthracene	5100	5200	1	30
Chrysene/Triphenylene	4800	4700	2	30
C1-Chrysenes	4600	4600	1	30
C2-Chrysenes	2500	2600	4	30
C3-Chrysenes	1600	1600	1	30
C4-Chrysenes	570	590	4	30
Benzo[b]fluoranthene	3500	3600	1	30
Benzo[k]fluoranthene	3200	3200	2	30
Benzo[a]fluoranthene	1100	1200	5	30
Benzo[e]pyrene	3000	3000	3	30
Benzo[a]pyrene	4300	4400	3	30
Perylene	900	950	4	30
Indeno[1,2,3-cd]pyrene	2400	2600	6	30
Dibenz[a,h]anthracene	640	690	7	30
Benzo[g,h,i]perylene	2300	2400	4	30

N/A - Not Applicable

Surrogate	% Recovery		Acceptance Range (%)
2-Methylnaphthalene-d10	75	74	50-130
Pyrene-d10	87	87	50-130
Benzo[b]fluoranthene-d12	86	88	50-130

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

02/14/06 21:05

Duplicate
Carbazole

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
01/25/06	01/26/06	01/26/06	44.6	AC

Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
Carbazole	130	120	8	30

N/A - Not Applicable

Surrogate	% Recovery		Acceptance Range (%)
2-Methylnaphthalene-d10	75	74	50-130
Pyrene-d10	87	87	50-130
Benzo[b]fluoranthene-d12	86	88	50-130

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

02/14/06 21:06

Duplicate
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
01/25/06	01/26/06	01/26/06	44.6	AC

Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
C23 Tricyclic Terpane	180	160	13	30
C24 Tricyclic Terpane	100	92	12	30
C25 Tricyclic Terpane	120	100	14	30
C24 Tetracyclic Terpane	140	120	14	30
C26 Tricyclic Terpane-22S	48	42	11	30
C26 Tricyclic Terpane-22R	48	41	14	30
C28 Tricyclic Terpane-22S	61	51	17	30
C28 Tricyclic Terpane-22R	61	50	19	30
C29 Tricyclic Terpane-22S	74	63	17	30
C29 Tricyclic Terpane-22R	70	63	9	30
18a-22,29,30-Trisnorneohopane-TS	340	280	18	30
C30 Tricyclic Terpane-22S	52	52	1	30
C30 Tricyclic Terpane-22R	56	47	16	30
17a(H)-22,29,30-Trisnorhopane-TM	330	290	12	30
17a/b,21b/a 28,30-Bisnorhopane	73	77	5	30
17a(H),21b(H)-25-Norhopane	30	27	9	30
30-Norhopane	1100	990	13	30
18a(H)-30-Norneohopane-C29Ts	280	220	23	30
17a(H)-Diahopane	50	41	18	30
30-Normoretane	150	130	13	30
18a(H)&18b(H)-Oleananes	110	94	16	30
Hopane	1400	1200	13	30
Moretane	140	130	10	30
30-Homohopane-22S	560	480	15	30
30-Homohopane-22R	470	410	14	30
30,31-Bishomohopane-22S	400	370	6	30
30,31-Bishomohopane-22R	250	210	16	30
30,31-Trishomohopane-22S	230	200	13	30
30,31-Trishomohopane-22R	130	120	12	30
Tetrakishomohopane-22S	140	120	17	30
Tetrakishomohopane-22R	97	88	10	30
Pentakishomohopane-22S	130	120	7	30
Pentakishomohopane-22R	91	81	11	30
13b(H),17a(H)-20S-Diacholestane	220	190	13	30
13b(H),17a(H)-20R-Diacholestane	120	100	16	30

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Duplicate
Steranes and Triterpanes

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
01/25/06	01/26/06	01/26/06	44.6	AC

Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
13b,17a-20S-Methyldiacholestane	**110**	**80**	28	30
14a(H),17a(H)-20S-Cholestane	**120**	**98**	22	30
14a(H),17a(H)-20R-Cholestane	**440**	**380**	16	30
13b,17a-20R-Ethyldiacholestane	**72**	**63**	12	30
13a,17b-20S-Ethyldiacholestane	**28**	**25**	15	30
14a,17a-20S-Methylcholestane	**77**	**59**	27	30
14a,17a-20R-Methylcholestane	**170**	**150**	17	30
14a(H),17a(H)-20S-Ethylcholestane	**170**	**150**	14	30
14a(H),17a(H)-20R-Ethylcholestane	**240**	**210**	15	30
14b(H),17b(H)-20R-Cholestane	**230**	**200**	14	30
14b(H),17b(H)-20S-Cholestane	**240**	**200**	18	30
14b,17b-20R-Methylcholestane	**220**	**180**	22	30
14b,17b-20S-Methylcholestane	**280**	**250**	12	30
14b(H),17b(H)-20R-Ethylcholestane	**400**	**360**	11	30
14b(H),17b(H)-20S-Ethylcholestane	**280**	**230**	18	30

Surrogate	% Recovery		Acceptance Range (%)
5B(H)Cholane	59	52	50-130

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

02/14/06 21:32

Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606B19**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	01/26/06	02/06/06	100	30.00	4	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	**0.35**	J	Fluoranthene	**0.14**	J
C1-Naphthalenes	**0.27**	J	Pyrene	**0.20**	J
C2-Naphthalenes	0.22	U	C1-Fluoranthenes/Pyrenes	0.12	U
C3-Naphthalenes	0.22	U	C2-Fluoranthenes/Pyrenes	0.12	U
C4-Naphthalenes	0.22	U	C3-Fluoranthenes/Pyrenes	0.12	U
Biphenyl	**0.13**	J	C4-Fluoranthenes/Pyrenes	0.12	U
Dibenzofuran	0.16	U	Naphthobenzothiophenes	0.16	U
Acenaphthylene	**0.26**	J	C1-Naphthobenzothiophenes	0.16	U
Acenaphthene	0.15	U	C2-Naphthobenzothiophenes	0.16	U
Fluorene	**0.11**	J	C3-Naphthobenzothiophenes	0.16	U
C1-Fluorenes	0.15	U	C4-Naphthobenzothiophenes	0.16	U
C2-Fluorenes	0.15	U	Benz[a]anthracene	**0.037**	J
C3-Fluorenes	0.15	U	Chrysene/Triphenylene	**0.064**	J
Anthracene	**0.10**	J	C1-Chrysenes	0.14	U
Phenanthrene	**0.46**	J	C2-Chrysenes	0.14	U
C1-Phenanthrenes/Anthracenes	**0.46**	J	C3-Chrysenes	0.14	U
C2-Phenanthrenes/Anthracenes	0.19	U	C4-Chrysenes	0.14	U
C3-Phenanthrenes/Anthracenes	0.19	U	Benzo[b]fluoranthene	0.14	U
C4-Phenanthrenes/Anthracenes	0.19	U	Benzo[k]fluoranthene	0.27	U
Retene	0.19	U	Benzo[a]fluoranthene	0.27	U
Dibenzothiophene	0.15	U	Benzo[e]pyrene	0.18	U
C1-Dibenzothiophenes	0.15	U	Benzo[a]pyrene	0.19	U
C2-Dibenzothiophenes	0.15	U	Perylene	0.23	U
C3-Dibenzothiophenes	0.15	U	Indeno[1,2,3-cd]pyrene	0.32	U
C4-Dibenzothiophenes	0.15	U	Dibenz[a,h]anthracene	0.25	U
Benzo(b)fluorene	0.13	U	Benzo[g,h,i]perylene	0.23	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	72	50-130
Pyrene-d10	86	50-130
Benzo[b]fluoranthene-d12	83	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 19:08

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606B19**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	01/26/06	02/06/06	100	30.00	4	1	AC

Parameter	Result
Carbazole	0.17 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	72	50-130
Pyrene-d10	86	50-130
Benzo[b]fluoranthene-d12	83	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 19:09

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB06\
Data File : P17993A.D
Acq On : 6 Feb 2006 5:48 pm
Operator : AC
Sample : SS012606B19
Misc : 1X ETR0601070
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 07 14:06:54 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	37031	500.00	ng/mL	0.00
72) Chrysene-d12	42.98	240	60343	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.21	152	14246	179.45	ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 17.95%#			
58) Pyrene-d10	38.06	212	35045	214.71	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 21.47%#			
81) Benzo[b]fluoranthene-d12	46.89	264	25005	208.09	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 20.81%#			
125) 5B(H)Cholane - Surr	43.62	217	9005	379.79	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 37.98%#			

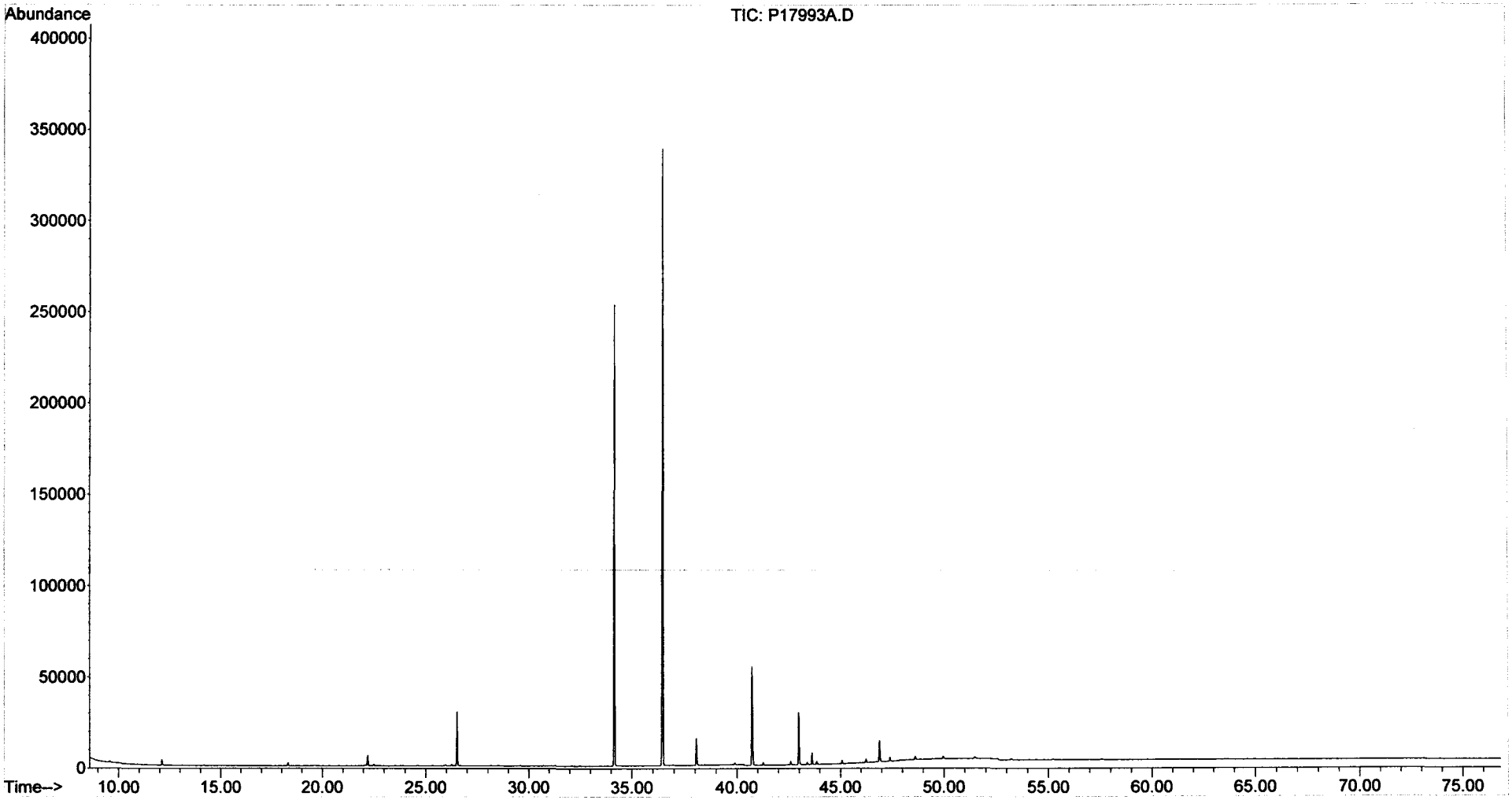
Target Compounds						Qvalue
9) Naphthalene	19.63	128	499m	2.64	ng/mL	
10) C1-Naphthalenes	22.32	142	382m	2.02	ng/mL	
15) 2-Methylnaphthalene	22.32	142	188m	1.57	ng/mL	
16) 1-Methylnaphthalene	22.74	142	126m	1.12	ng/mL	
22) Biphenyl	24.20	154	143m	0.96	ng/mL	
25) Acenaphthylene	25.91	152	349m	1.92	ng/mL	
28) Fluorene	28.66	166	101m	0.80	ng/mL	
41) Phenanthrene	32.49	178	640m	3.42	ng/mL	
47) C1-Phenanthrenes/Anthracen	34.55	192	650m	3.47	ng/mL	
53) Anthracene	32.67	178	136m	0.78	ng/mL	
55) 1-Methylphenanthrene	34.99	192	108m	0.84	ng/mL	
56) Fluoranthene	37.26	202	204m	1.02	ng/mL	
59) Pyrene	38.13	202	306m	1.51	ng/mL	
73) Benz[a]anthracene	42.92	228	52m	0.28	ng/mL	
74) Chrysene	43.08	228	96m	0.51	ng/mL	
75) Chrysene/Triphenylene	43.08	228	91m	0.48	ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB06\
Data File : P17993A.D
Acq On : 6 Feb 2006 5:48 pm
Operator : AC
Sample : SS012606B19
Misc : 1X ETR0601070
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 07 14:06:54 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606B19**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	01/26/06	02/01/06	100	30.00	4	1	AC

Parameter	Result		Parameter	Result	
C23 Tricyclic Terpane	0.38	U	30,31-Bishomohopane-22S	0.38	U
C24 Tricyclic Terpane	0.38	U	30,31-Bishomohopane-22R	0.38	U
C25 Tricyclic Terpane	0.38	U	30,31-Trishomohopane-22S	0.38	U
C24 Tetracyclic Terpane	0.38	U	30,31-Trishomohopane-22R	0.38	U
C26 Tricyclic Terpane-22S	0.38	U	Tetrakishomohopane-22S	0.38	U
C26 Tricyclic Terpane-22R	0.38	U	Tetrakishomohopane-22R	0.38	U
C28 Tricyclic Terpane-22S	0.38	U	Pentakishomohopane-22S	0.38	U
C28 Tricyclic Terpane-22R	0.38	U	Pentakishomohopane-22R	0.38	U
C29 Tricyclic Terpane-22S	0.38	U	13b(H),17a(H)-20S-Diacholestane	0.38	U
C29 Tricyclic Terpane-22R	0.38	U	13b(H),17a(H)-20R-Diacholestane	0.38	U
18a-22,29,30-Trisnorneohopane-TS	0.38	U	13b,17a-20S-Methyldiacholestane	0.38	U
C30 Tricyclic Terpane-22S	0.38	U	14a(H),17a(H)-20S-Cholestane	0.38	U
C30 Tricyclic Terpane-22R	0.38	U	14a(H),17a(H)-20R-Cholestane	0.38	U
17a(H)-22,29,30-Trisnorhopane-TM	0.38	U	13b,17a-20R-Ethyldiacholestane	0.38	U
17a/b,21b/a 28,30-Bisnorhopane	0.38	U	13a,17b-20S-Ethyldiacholestane	0.38	U
17a(H),21b(H)-25-Norhopane	0.38	U	14a,17a-20S-Methylcholestane	0.38	U
30-Norhopane	0.38	U	14a,17a-20R-Methylcholestane	0.38	U
18a(H)-30-Norneohopane-C29Ts	0.38	U	14a(H),17a(H)-20S-Ethylcholestane	0.38	U
17a(H)-Diahopane	0.38	U	14a(H),17a(H)-20R-Ethylcholestane	0.38	U
30-Normoretane	0.38	U	14b(H),17b(H)-20R-Cholestane	0.38	U
18a(H)&18b(H)-Oleananes	0.38	U	14b(H),17b(H)-20S-Cholestane	0.38	U
Hopane	0.38	U	14b,17b-20R-Methylcholestane	0.38	U
Moretane	0.38	U	14b,17b-20S-Methylcholestane	0.38	U
30-Homohopane-22S	0.38	U	14b(H),17b(H)-20R-Ethylcholestane	0.38	U
30-Homohopane-22R	0.38	U	14b(H),17b(H)-20S-Ethylcholestane	0.38	U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	104	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 21:56

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34924.D
Acq On : 1 Feb 2006 7:55 pm
Operator : AC
Sample : SS012606B19
Misc : 1X ETR0601070
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 14 12:24:21 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

MS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.47	240	67101	500.00	ng/mL	0.05

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
117) 5B(H)Cholane - Surr	43.90	217	14722	522.04	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	52.20%	

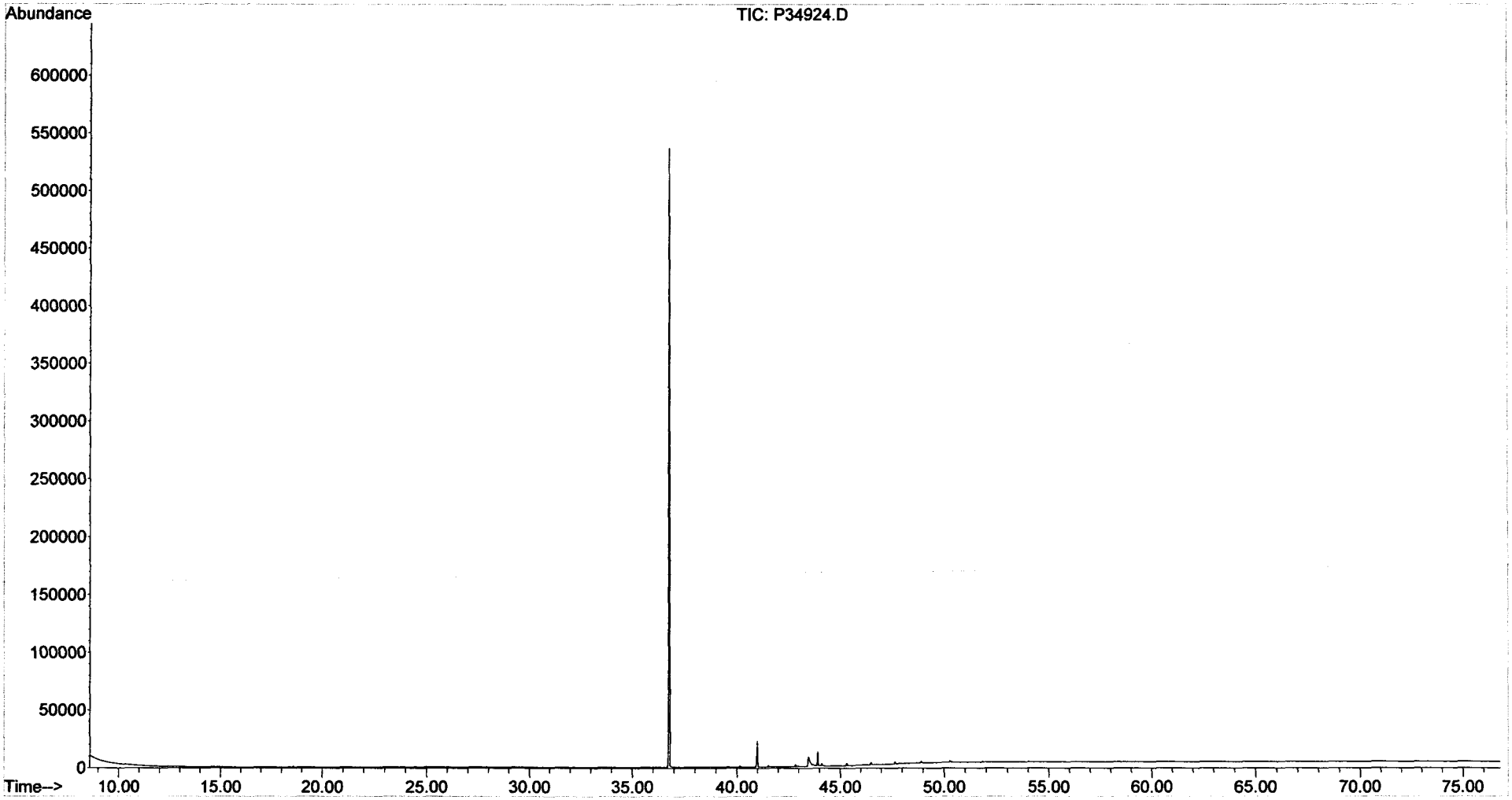
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN26\
Data File : P34924.D
Acq On : 1 Feb 2006 7:55 pm
Operator : AC
Sample : SS012606B19
Misc : 1X ETR0601070
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 14 12:24:21 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606B06**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/06/06	02/10/06	100	30.00	4	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	**0.20**	J	Fluoranthene	**0.060**	J
C1-Naphthalenes	**0.20**	J	Pyrene	**0.10**	J
C2-Naphthalenes	0.22	U	C1-Fluoranthenes/Pyrenes	0.12	U
C3-Naphthalenes	0.22	U	C2-Fluoranthenes/Pyrenes	0.12	U
C4-Naphthalenes	0.22	U	C3-Fluoranthenes/Pyrenes	0.12	U
Biphenyl	0.12	U	C4-Fluoranthenes/Pyrenes	0.12	U
Dibenzofuran	0.16	U	Naphthobenzothiophenes	0.16	U
Acenaphthylene	**0.30**	J	C1-Naphthobenzothiophenes	0.16	U
Acenaphthene	0.15	U	C2-Naphthobenzothiophenes	0.16	U
Fluorene	0.15	U	C3-Naphthobenzothiophenes	0.16	U
C1-Fluorenes	0.15	U	C4-Naphthobenzothiophenes	0.16	U
C2-Fluorenes	0.15	U	Benz[a]anthracene	0.21	U
C3-Fluorenes	0.15	U	Chrysene/Triphenylene	0.14	U
Anthracene	0.18	U	C1-Chrysenes	0.14	U
Phenanthrene	**0.11**	J	C2-Chrysenes	0.14	U
C1-Phenanthrenes/Anthracenes	0.19	U	C3-Chrysenes	0.14	U
C2-Phenanthrenes/Anthracenes	0.19	U	C4-Chrysenes	0.14	U
C3-Phenanthrenes/Anthracenes	0.19	U	Benzo[b]fluoranthene	0.14	U
C4-Phenanthrenes/Anthracenes	0.19	U	Benzo[k]fluoranthene	0.27	U
Retene	**0.25**	J	Benzo[a]fluoranthene	0.27	U
Dibenzothiophene	0.15	U	Benzo[e]pyrene	0.18	U
C1-Dibenzothiophenes	0.15	U	Benzo[a]pyrene	0.19	U
C2-Dibenzothiophenes	0.15	U	Perylene	0.23	U
C3-Dibenzothiophenes	0.15	U	Indeno[1,2,3-cd]pyrene	0.32	U
C4-Dibenzothiophenes	0.15	U	Dibenz[a,h]anthracene	0.25	U
Benzo(b)fluorene	0.13	U	Benzo[g,h,i]perylene	0.23	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	82	50-130
Pyrene-d10	106	50-130
Benzo[b]fluoranthene-d12	98	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 18:26

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606B06**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/06/06	02/10/06	100	30.00	4	1	AC

Parameter	Result
Carbazole	0.17 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	82	50-130
Pyrene-d10	106	50-130
Benzo[b]fluoranthene-d12	98	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 18:26

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB08\
Data File : P18115.D
Acq On : 10 Feb 2006 9:59 pm
Operator : AC
Sample : SS020606B06
Misc : 1X ETR0602004/070
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 14 11:07:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MS 2/14/06

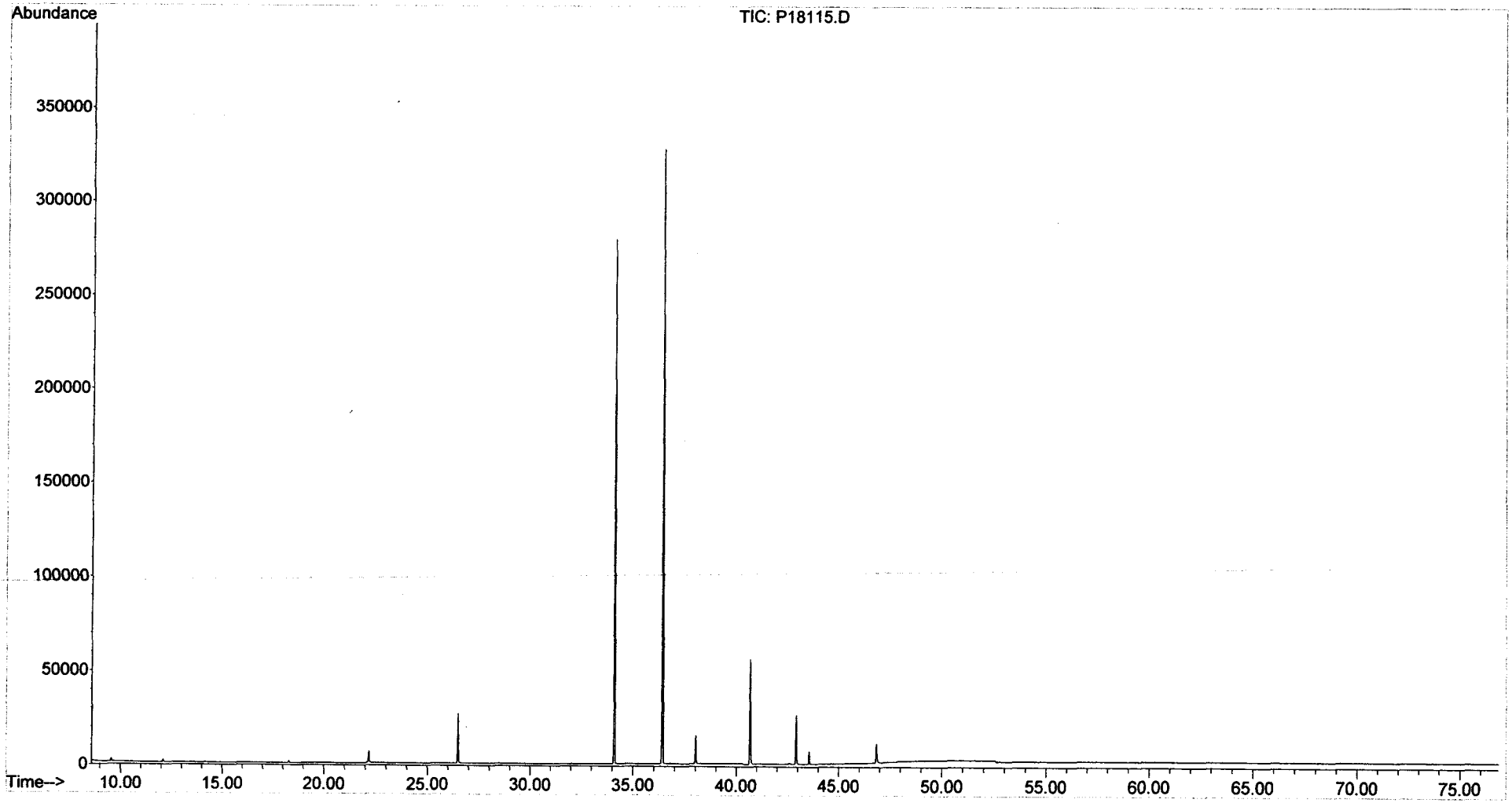
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.49	164	31922m	500.00	ng/mL	-0.02
72) Chrysene-d12	42.94	240	53578	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.18	152	13976	204.22	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 20.42%#			
58) Pyrene-d10	38.04	212	37371	265.60	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 26.56%#			
81) Benzo[b]fluoranthene-d12	46.85	264	26239	245.93	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 24.59%#			
125) 5B(H)Cholane - Surr	43.57	217	9223	438.09	ng/ml	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 43.81%#			
Target Compounds						Qvalue
9) Naphthalene	19.61	128	244m	1.50	ng/mL	
10) C1-Naphthalenes	22.29	142	246m	1.51	ng/mL	
15) 2-Methylnaphthalene	22.29	142	112m	1.09	ng/mL	
16) 1-Methylnaphthalene	22.72	142	57m	0.59	ng/mL	
25) Acenaphthylene	25.87	152	348m	2.23	ng/mL	
41) Phenanthrene	32.46	178	132m	0.82	ng/mL	
52) Retene	39.45	234	63m	1.87	ng/mL	
56) Fluoranthene	37.23	202	78m	0.45	ng/mL	
59) Pyrene	38.10	202	132m	0.75	ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB08\
Data File : P18115.D
Acq On : 10 Feb 2006 9:59 pm
Operator : AC
Sample : SS020606B06
Misc : 1X ETR0602004
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Feb 14 11:07:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606B06**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/06/06	02/11/06	100	30.00	4	1	AC

Parameter	Result		Parameter	Result	
C23 Tricyclic Terpane	0.38	U	30,31-Bishomohopane-22S	0.38	U
C24 Tricyclic Terpane	0.38	U	30,31-Bishomohopane-22R	0.38	U
C25 Tricyclic Terpane	0.38	U	30,31-Trishomohopane-22S	0.38	U
C24 Tetracyclic Terpane	0.38	U	30,31-Trishomohopane-22R	0.38	U
C26 Tricyclic Terpane-22S	0.38	U	Tetrakishomohopane-22S	0.38	U
C26 Tricyclic Terpane-22R	0.38	U	Tetrakishomohopane-22R	0.38	U
C28 Tricyclic Terpane-22S	0.38	U	Pentakishomohopane-22S	0.38	U
C28 Tricyclic Terpane-22R	0.38	U	Pentakishomohopane-22R	0.38	U
C29 Tricyclic Terpane-22S	0.38	U	13b(H),17a(H)-20S-Diacholestane	0.38	U
C29 Tricyclic Terpane-22R	0.38	U	13b(H),17a(H)-20R-Diacholestane	0.38	U
18a-22,29,30-Trisnorneohopane-TS	0.38	U	13b,17a-20S-Methyldiacholestane	0.38	U
C30 Tricyclic Terpane-22S	0.38	U	14a(H),17a(H)-20S-Cholestane	0.38	U
C30 Tricyclic Terpane-22R	0.38	U	14a(H),17a(H)-20R-Cholestane	0.38	U
17a(H)-22,29,30-Trisnorhopane-TM	0.38	U	13b,17a-20R-Ethyldiacholestane	0.38	U
17a/b,21b/a 28,30-Bisnorhopane	0.38	U	13a,17b-20S-Ethyldiacholestane	0.38	U
17a(H),21b(H)-25-Norhopane	0.38	U	14a,17a-20S-Methylcholestane	0.38	U
30-Norhopane	0.38	U	14a,17a-20R-Methylcholestane	0.38	U
18a(H)-30-Norneohopane-C29Ts	0.38	U	14a(H),17a(H)-20S-Ethylcholestane	0.38	U
17a(H)-Diahopane	0.38	U	14a(H),17a(H)-20R-Ethylcholestane	0.38	U
30-Normoretane	0.38	U	14b(H),17b(H)-20R-Cholestane	0.38	U
18a(H)&18b(H)-Oleananes	0.38	U	14b(H),17b(H)-20S-Cholestane	0.38	U
Hopane	0.38	U	14b,17b-20R-Methylcholestane	0.38	U
Moretane	0.38	U	14b,17b-20S-Methylcholestane	0.38	U
30-Homohopane-22S	0.38	U	14b(H),17b(H)-20R-Ethylcholestane	0.38	U
30-Homohopane-22R	0.38	U	14b(H),17b(H)-20S-Ethylcholestane	0.38	U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	104	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 21:56

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28211.D
Acq On : 11 Feb 2006 4:00 am
Operator : AC
Sample : SS020606B06
Misc : 1X ETR0602004
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 14 13:22:41 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

MS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.64	240	40282	500.00	ng/mL	0.01

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
117) 5B(H)Cholane - Surr	44.20	217	8898	519.40	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	51.94%	

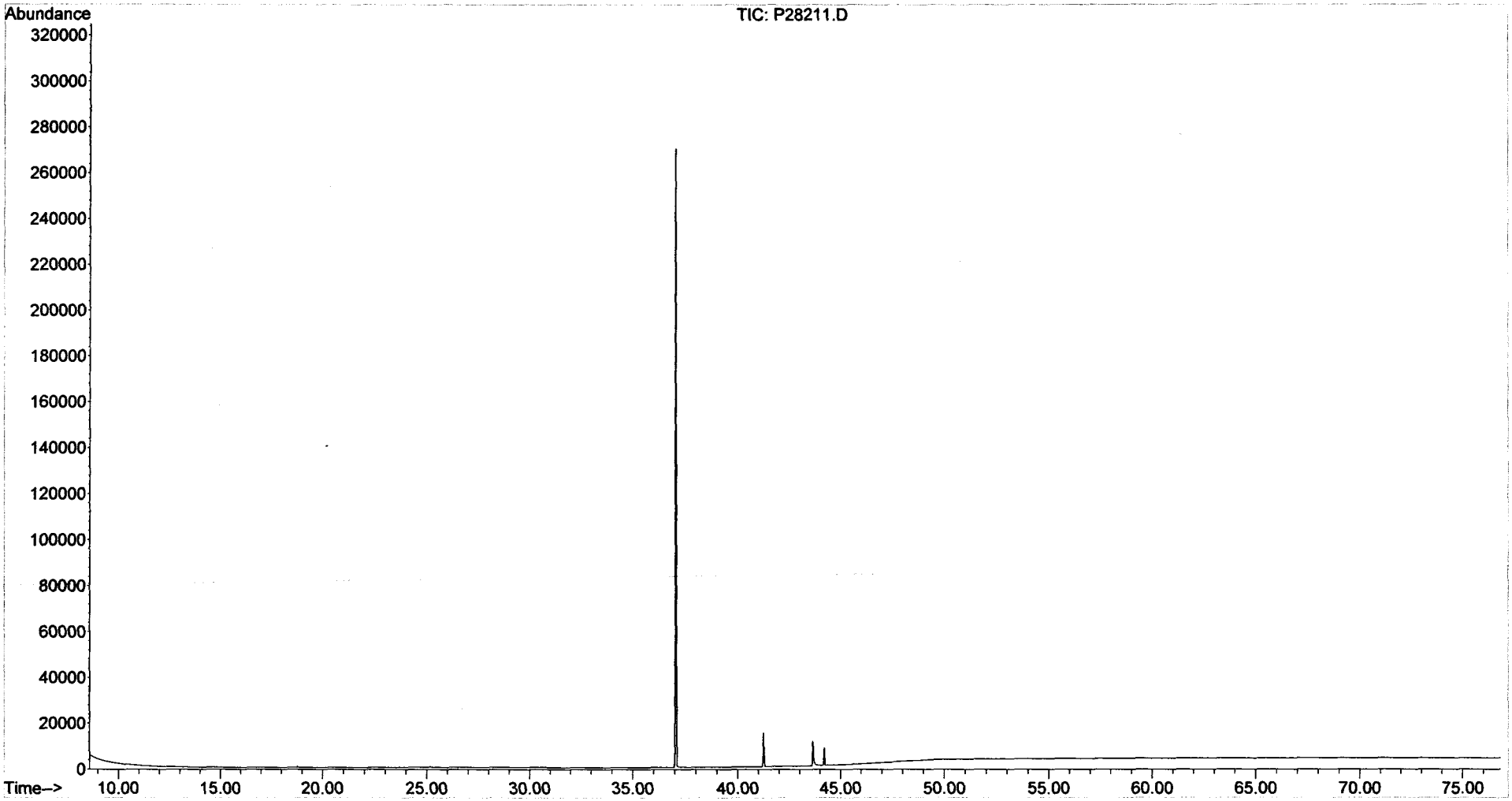
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28211.D
Acq On : 11 Feb 2006 4:00 am
Operator : AC
Sample : SS020606B06
Misc : 1X ETR0602004
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 14 13:22:41 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration



Form III
Spike Recovery Summary
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **See Below**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	01/26/06	100	AC

Lab ID:	SS012606B19	SS012606LCS05		SS012606LCSD05				
Parameter	**Blank Conc.**	**LCS Conc.**	**LCS % Recovery**	**LCSD Conc.**	**LCSD % Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Naphthalene	0.35	27	81	26	77	4	30	50-130
Acenaphthylene	0.26	27	80	26	77	5	30	50-130
Acenaphthene	0.15 U	27	80	26	77	5	30	50-130
Fluorene	0.11	27	80	25	76	5	30	50-130
Anthracene	0.10	26	79	25	74	6	30	50-130
Phenanthrene	0.46	26	80	25	75	5	30	50-130
Fluoranthene	0.14	27	81	26	77	5	30	50-130
Pyrene	0.20	28	83	26	78	5	30	50-130
Benz[a]anthracene	0.037	28	86	27	80	7	30	50-130
Chrysene/Triphenylene	0.064	27	80	25	76	5	30	50-130
Benzo[b]fluoranthene	0.14 U	28	83	26	79	5	30	50-130
Benzo[k]fluoranthene	0.27 U	28	85	26	79	6	30	50-130
Benzo[a]pyrene	0.19 U	27	80	25	75	6	30	50-130
Indeno[1,2,3-cd]pyrene	0.32 U	30	89	30	89	1	30	50-130
Dibenz[a,h]anthracene	0.25 U	31	92	28	85	8	30	50-130
Benzo[g,h,i]perylene	0.23 U	28	86	26	79	8	30	50-130

Surrogate	% Recovery		Acceptance Range (%)
2-Methylnaphthalene-d10	79	74	50-130
Pyrene-d10	88	81	50-130
Benzo[b]fluoranthene-d12	85	77	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

02/14/06 19:11

Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606LCS05**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	01/26/06	02/06/06	100	30.00	4	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	**27**	S	Fluoranthene	**27**	S
C1-Naphthalenes	0.22	U	Pyrene	**28**	S
C2-Naphthalenes	0.22	U	C1-Fluoranthenes/Pyrenes	0.12	U
C3-Naphthalenes	0.22	U	C2-Fluoranthenes/Pyrenes	0.12	U
C4-Naphthalenes	0.22	U	C3-Fluoranthenes/Pyrenes	0.12	U
Biphenyl	0.12	U	C4-Fluoranthenes/Pyrenes	0.12	U
Dibenzofuran	0.16	U	Naphthobenzothiophenes	0.16	U
Acenaphthylene	**27**	S	C1-Naphthobenzothiophenes	0.16	U
Acenaphthene	**27**	S	C2-Naphthobenzothiophenes	0.16	U
Fluorene	**27**	S	C3-Naphthobenzothiophenes	0.16	U
C1-Fluorenes	0.15	U	C4-Naphthobenzothiophenes	0.16	U
C2-Fluorenes	0.15	U	Benz[a]anthracene	**28**	S
C3-Fluorenes	0.15	U	Chrysene/Triphenylene	**27**	S
Anthracene	**26**	S	C1-Chrysenes	0.14	U
Phenanthrene	**26**	S	C2-Chrysenes	0.14	U
C1-Phenanthrenes/Anthracenes	0.19	U	C3-Chrysenes	0.14	U
C2-Phenanthrenes/Anthracenes	0.19	U	C4-Chrysenes	0.14	U
C3-Phenanthrenes/Anthracenes	0.19	U	Benzo[b]fluoranthene	**28**	S
C4-Phenanthrenes/Anthracenes	0.19	U	Benzo[k]fluoranthene	**28**	S
Retene	0.19	U	Benzo[a]fluoranthene	0.27	U
Dibenzothiophene	0.15	U	Benzo[e]pyrene	0.18	U
C1-Dibenzothiophenes	0.15	U	Benzo[a]pyrene	**27**	S
C2-Dibenzothiophenes	0.15	U	Perylene	0.23	U
C3-Dibenzothiophenes	0.15	U	Indeno[1,2,3-cd]pyrene	**30**	S
C4-Dibenzothiophenes	0.15	U	Dibenz[a,h]anthracene	**31**	S
Benzo(b)fluorene	0.13	U	Benzo[g,h,i]perylene	**28**	S

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	88	50-130
Benzo[b]fluoranthene-d12	85	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.
S - Spike compound.

02/14/06 19:09

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606LCS05**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	01/26/06	02/06/06	100	30.00	4	1	AC

Parameter	Result
Carbazole	0.17 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	88	50-130
Benzo[b]fluoranthene-d12	85	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 19:09

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB06\
Data File : P17995A.D
Acq On : 6 Feb 2006 7:22 pm
Operator : AC
Sample : SS012606LCS05
Misc : 1X ETR0601070
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 07 14:09:21 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MWS 2/14/06

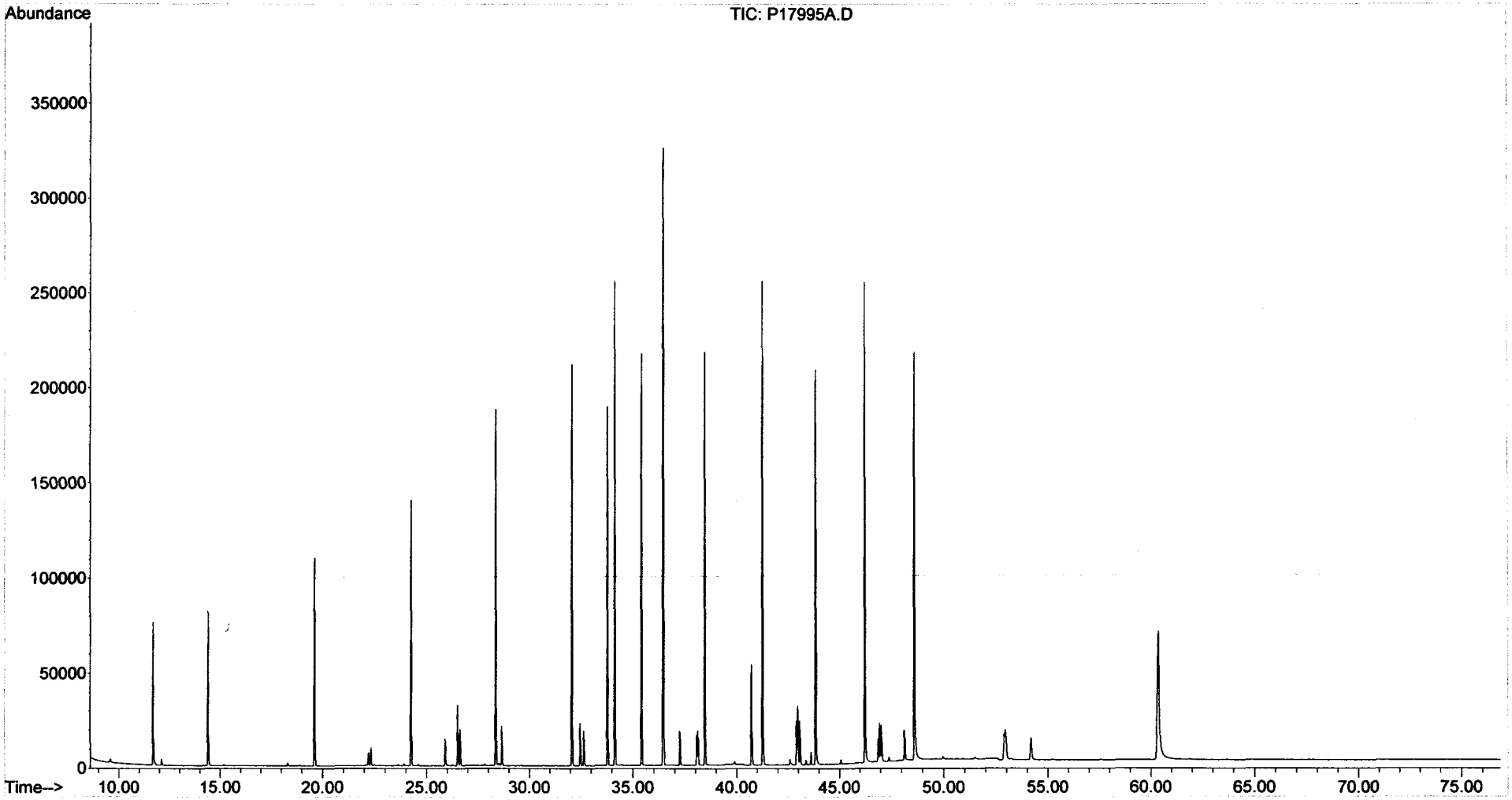
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	37214	500.00	ng/mL	0.00
72) Chrysene-d12	42.98	240	61219	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.20	152	15826	198.37	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 19.84%#			
58) Pyrene-d10	38.06	212	35949	219.16	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 21.92%#			
81) Benzo[b]fluoranthene-d12	46.88	264	25985	213.15	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 21.32%#			
125) 5B(H)Cholane - Surr	43.62	217	9048	376.14	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 37.61%#			
Target Compounds						Qvalue
9) Naphthalene	19.63	128	38305	201.55	ng/mL#	100
15) 2-Methylnaphthalene	22.32	142	22749	189.08	ng/mL#	100
25) Acenaphthylene	25.90	152	36629	201.01	ng/mL#	100
26) Acenaphthene	26.64	153	22777	201.22	ng/mL	99
28) Fluorene	28.66	166	25394	200.04	ng/mL	99
41) Phenanthrene	32.47	178	37429	198.84	ng/mL	99
53) Anthracene	32.66	178	34299	196.94	ng/mL	99
56) Fluoranthene	37.24	202	40779	203.46	ng/mL	98
59) Pyrene	38.13	202	42048	206.27	ng/mL	99
73) Benz[a]anthracene	42.92	228	39884	214.02	ng/mL	97
74) Chrysene	43.08	228	38073	199.94	ng/mL	99
75) Chrysene/Triphenylene	43.08	228	38073	199.94	ng/mL	99
82) Benzo[b]fluoranthene	46.97	252	39891	208.43	ng/mL	100
83) Benzo[k]fluoranthene	47.05	252	42112	211.50	ng/mL	99
86) Benzo[a]pyrene	48.14	252	36545	199.33	ng/mL	99
88) Indeno[1,2,3-cd]pyrene	52.89	276	35923m	222.65	ng/mL	
89) Dibenz[a,h]anthracene	52.96	278	37801	229.86	ng/mL	97
90) Benzo[g,h,i]perylene	54.16	276	39807	214.11	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB06\
Data File : P17995A.D
Acq On : 6 Feb 2006 7:22 pm
Operator : AC
Sample : SS012606LCS05
Misc : 1X ETR0601070
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 07 14:09:21 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample Dup**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606LCSD05**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	01/26/06	02/06/06	100	30.00	4	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	**26**	S	Fluoranthene	**26**	S
C1-Naphthalenes	0.22	U	Pyrene	**26**	S
C2-Naphthalenes	0.22	U	C1-Fluoranthenes/Pyrenes	0.12	U
C3-Naphthalenes	0.22	U	C2-Fluoranthenes/Pyrenes	0.12	U
C4-Naphthalenes	0.22	U	C3-Fluoranthenes/Pyrenes	0.12	U
Biphenyl	0.12	U	C4-Fluoranthenes/Pyrenes	0.12	U
Dibenzofuran	0.16	U	Naphthobenzothiophenes	0.16	U
Acenaphthylene	**26**	S	C1-Naphthobenzothiophenes	0.16	U
Acenaphthene	**26**	S	C2-Naphthobenzothiophenes	0.16	U
Fluorene	**25**	S	C3-Naphthobenzothiophenes	0.16	U
C1-Fluorenes	0.15	U	C4-Naphthobenzothiophenes	0.16	U
C2-Fluorenes	0.15	U	Benz[a]anthracene	**27**	S
C3-Fluorenes	0.15	U	Chrysene/Triphenylene	**25**	S
Anthracene	**25**	S	C1-Chrysenes	0.14	U
Phenanthrene	**25**	S	C2-Chrysenes	0.14	U
C1-Phenanthrenes/Anthracenes	0.19	U	C3-Chrysenes	0.14	U
C2-Phenanthrenes/Anthracenes	0.19	U	C4-Chrysenes	0.14	U
C3-Phenanthrenes/Anthracenes	0.19	U	Benzo[b]fluoranthene	**26**	S
C4-Phenanthrenes/Anthracenes	0.19	U	Benzo[k]fluoranthene	**26**	S
Retene	0.19	U	Benzo[a]fluoranthene	0.27	U
Dibenzothiophene	0.15	U	Benzo[e]pyrene	0.18	U
C1-Dibenzothiophenes	0.15	U	Benzo[a]pyrene	**25**	S
C2-Dibenzothiophenes	0.15	U	Perylene	0.23	U
C3-Dibenzothiophenes	0.15	U	Indeno[1,2,3-cd]pyrene	**30**	S
C4-Dibenzothiophenes	0.15	U	Dibenz[a,h]anthracene	**28**	S
Benzo(b)fluorene	0.13	U	Benzo[g,h,i]perylene	**26**	S

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	74	50-130
Pyrene-d10	81	50-130
Benzo[b]fluoranthene-d12	77	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.
S - Spike compound.

02/14/06 19:10

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample Dup**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606LCSD05**
Associated Blank: **SS012606B19**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	01/26/06	02/06/06	100	30.00	4	1	AC

Parameter	Result
Carbazole	0.17 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	74	50-130
Pyrene-d10	81	50-130
Benzo[b]fluoranthene-d12	77	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 19:10

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB06\
Data File : P17997A.D
Acq On : 6 Feb 2006 8:56 pm
Operator : AC
Sample : SS012606LCSD05
Misc : 1X ETR0601070
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 07 14:11:12 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MS 2/15/06

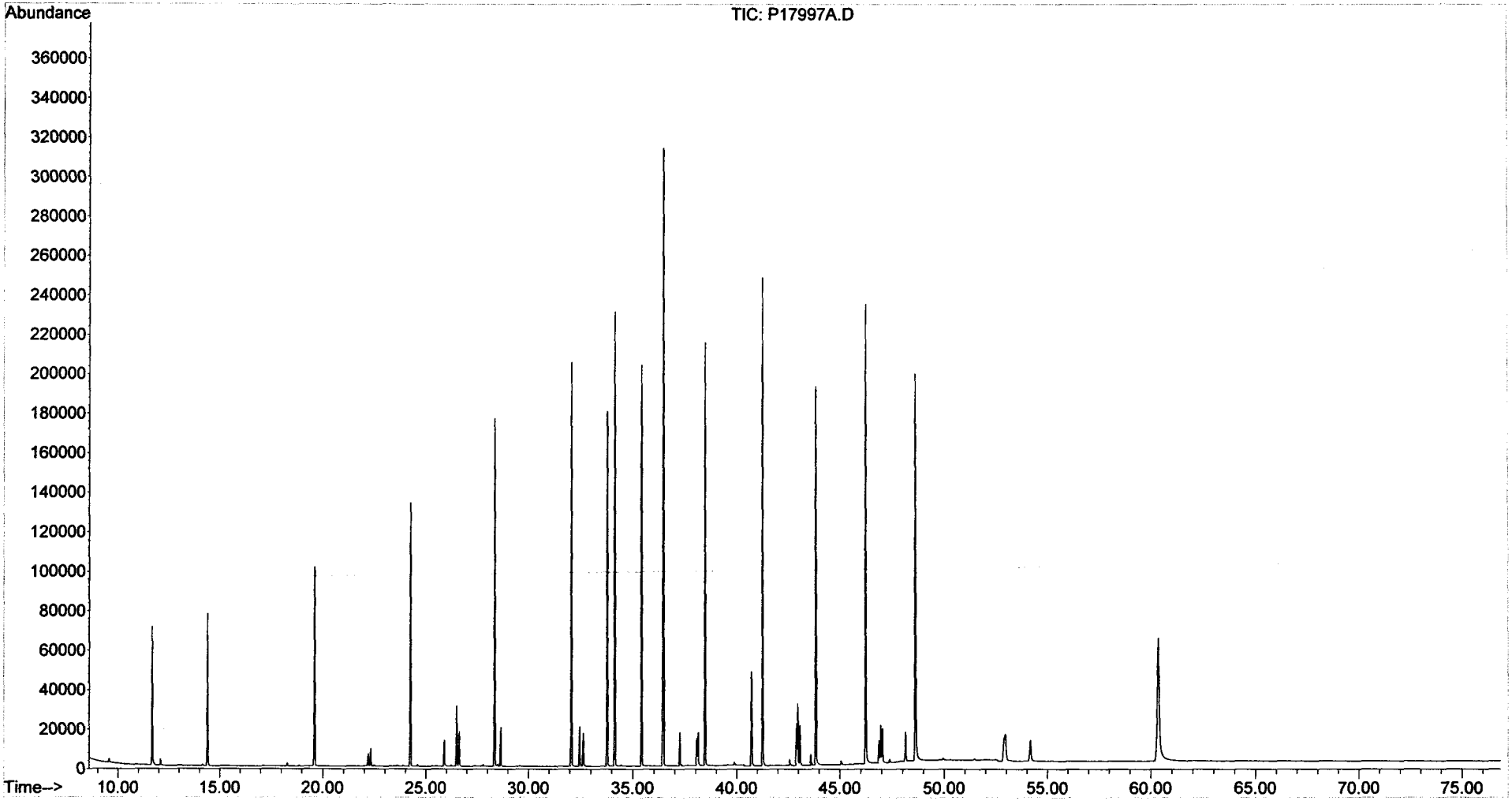
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	36764m	500.00	ng/mL	0.00
72) Chrysene-d12	42.98	240	60521	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.20	152	14588	185.09	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 18.51%#			
58) Pyrene-d10	38.06	212	32938	203.26	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 20.33%#			
81) Benzo[b]fluoranthene-d12	46.88	264	23293	193.27	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 19.33%#			
125) 5B(H)Cholane - Surr	43.61	217	8288	348.52	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 34.85%#			
Target Compounds						Qvalue
9) Naphthalene	19.63	128	36246	193.06	ng/mL#	100
15) 2-Methylnaphthalene	22.32	142	21637	182.04	ng/mL#	100
25) Acenaphthylene	25.90	152	34460	191.42	ng/mL#	100
26) Acenaphthene	26.64	153	21455	191.87	ng/mL	99
28) Fluorene	28.66	166	23771	189.55	ng/mL	99
41) Phenanthrene	32.47	178	35090	188.69	ng/mL	99
53) Anthracene	32.65	178	31985	185.90	ng/mL	99
56) Fluoranthene	37.24	202	38355	193.71	ng/mL	98
59) Pyrene	38.12	202	39394	195.62	ng/mL	100
73) Benz[a]anthracene	42.92	228	36921m	200.41	ng/mL	
74) Chrysene	43.08	228	35872	190.56	ng/mL	99
75) Chrysene/Triphenylene	43.08	228	35872	190.56	ng/mL	99
82) Benzo[b]fluoranthene	46.97	252	37374	197.53	ng/mL	99
83) Benzo[k]fluoranthene	47.05	252	39102	198.65	ng/mL	100
86) Benzo[a]pyrene	48.14	252	34071	187.98	ng/mL	95
88) Indeno[1,2,3-cd]pyrene	52.89	276	35297m	221.30	ng/mL	
89) Dibenz[a,h]anthracene	52.96	278	34407	211.63	ng/mL	97
90) Benzo[g,h,i]perylene	54.18	276	36351	197.78	ng/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB06\
Data File : P17997A.D
Acq On : 6 Feb 2006 8:56 pm
Operator : AC
Sample : SS012606LCSD05
Misc : 1X ETR0601070
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 07 14:11:12 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Form III
Spike Recovery Summary
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **See Below**
Associated Blank: **SS020606B06**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	02/06/06	100	AC

Lab ID:	SS020606B06		SS020606LCS04		SS020606LCSD05				
Parameter	**Blank Conc.**		**LCS Conc.**	**LCS % Recovery**	**LCSD Conc.**	**LCSD % Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Naphthalene	0.20		28	85	33	100	16	30	50-130
Acenaphthylene	0.30		28	85	31	92	8	30	50-130
Acenaphthene	0.15	U	28	85	32	96	13	30	50-130
Fluorene	0.15	U	27	82	32	96	16	30	50-130
Anthracene	0.18	U	26	79	30	90	13	30	50-130
Phenanthrene	0.11		27	81	31	92	12	30	50-130
Fluoranthene	0.060		28	85	33	99	15	30	50-130
Pyrene	0.10		29	88	34	103	16	30	50-130
Benz[a]anthracene	0.21	U	31	92	33	98	6	30	50-130
Chrysene/Triphenylene	0.14	U	29	86	32	95	9	30	50-130
Benzo[b]fluoranthene	0.14	U	30	88	33	98	10	30	50-130
Benzo[k]fluoranthene	0.27	U	30	89	34	101	14	30	50-130
Benzo[a]pyrene	0.19	U	28	84	30	90	6	30	50-130
Indeno[1,2,3-cd]pyrene	0.32	U	32	96	30	89	7	30	50-130
Dibenz[a,h]anthracene	0.25	U	32	97	32	97	0	30	50-130
Benzo[g,h,i]perylene	0.23	U	29	88	31	93	5	30	50-130

Surrogate	% Recovery		Acceptance Range (%)
2-Methylnaphthalene-d10	85	98	50-130
Pyrene-d10	95	111	50-130
Benzo[b]fluoranthene-d12	90	104	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

02/14/06 18:56

Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606LCS04**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/06/06	02/13/06	100	30.00	4	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	**28**	S	Fluoranthene	**28**	S
C1-Naphthalenes	0.22	U	Pyrene	**29**	S
C2-Naphthalenes	0.22	U	C1-Fluoranthenes/Pyrenes	0.12	U
C3-Naphthalenes	0.22	U	C2-Fluoranthenes/Pyrenes	0.12	U
C4-Naphthalenes	0.22	U	C3-Fluoranthenes/Pyrenes	0.12	U
Biphenyl	0.12	U	C4-Fluoranthenes/Pyrenes	0.12	U
Dibenzofuran	0.16	U	Naphthobenzothiophenes	0.16	U
Acenaphthylene	**28**	S	C1-Naphthobenzothiophenes	0.16	U
Acenaphthene	**28**	S	C2-Naphthobenzothiophenes	0.16	U
Fluorene	**27**	S	C3-Naphthobenzothiophenes	0.16	U
C1-Fluorenes	0.15	U	C4-Naphthobenzothiophenes	0.16	U
C2-Fluorenes	0.15	U	Benz[a]anthracene	**31**	S
C3-Fluorenes	0.15	U	Chrysene/Triphenylene	**29**	S
Anthracene	**26**	S	C1-Chrysenes	0.14	U
Phenanthrene	**27**	S	C2-Chrysenes	0.14	U
C1-Phenanthrenes/Anthracenes	0.19	U	C3-Chrysenes	0.14	U
C2-Phenanthrenes/Anthracenes	0.19	U	C4-Chrysenes	0.14	U
C3-Phenanthrenes/Anthracenes	0.19	U	Benzo[b]fluoranthene	**30**	S
C4-Phenanthrenes/Anthracenes	0.19	U	Benzo[k]fluoranthene	**30**	S
Retene	0.19	U	Benzo[a]fluoranthene	0.27	U
Dibenzothiophene	0.15	U	Benzo[e]pyrene	0.18	U
C1-Dibenzothiophenes	0.15	U	Benzo[a]pyrene	**28**	S
C2-Dibenzothiophenes	0.15	U	Perylene	0.23	U
C3-Dibenzothiophenes	0.15	U	Indeno[1,2,3-cd]pyrene	**32**	S
C4-Dibenzothiophenes	0.15	U	Dibenz[a,h]anthracene	**32**	S
Benzo(b)fluorene	0.13	U	Benzo[g,h,i]perylene	**29**	S

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	85	50-130
Pyrene-d10	95	50-130
Benzo[b]fluoranthene-d12	90	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.
S - Spike compound.

02/14/06 18:28

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606LCS04**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/06/06	02/13/06	100	30.00	4	1	AC

Parameter	Result
Carbazole	0.17 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	85	50-130
Pyrene-d10	95	50-130
Benzo[b]fluoranthene-d12	90	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 18:29

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB13\
Data File : P18185.D
Acq On : 13 Feb 2006 9:37 pm
Operator : AC
Sample : SS020606LCS04
Misc : 1X RE-ALUMINA ERR060207O/004
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 14 11:03:18 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MS 2/14/06

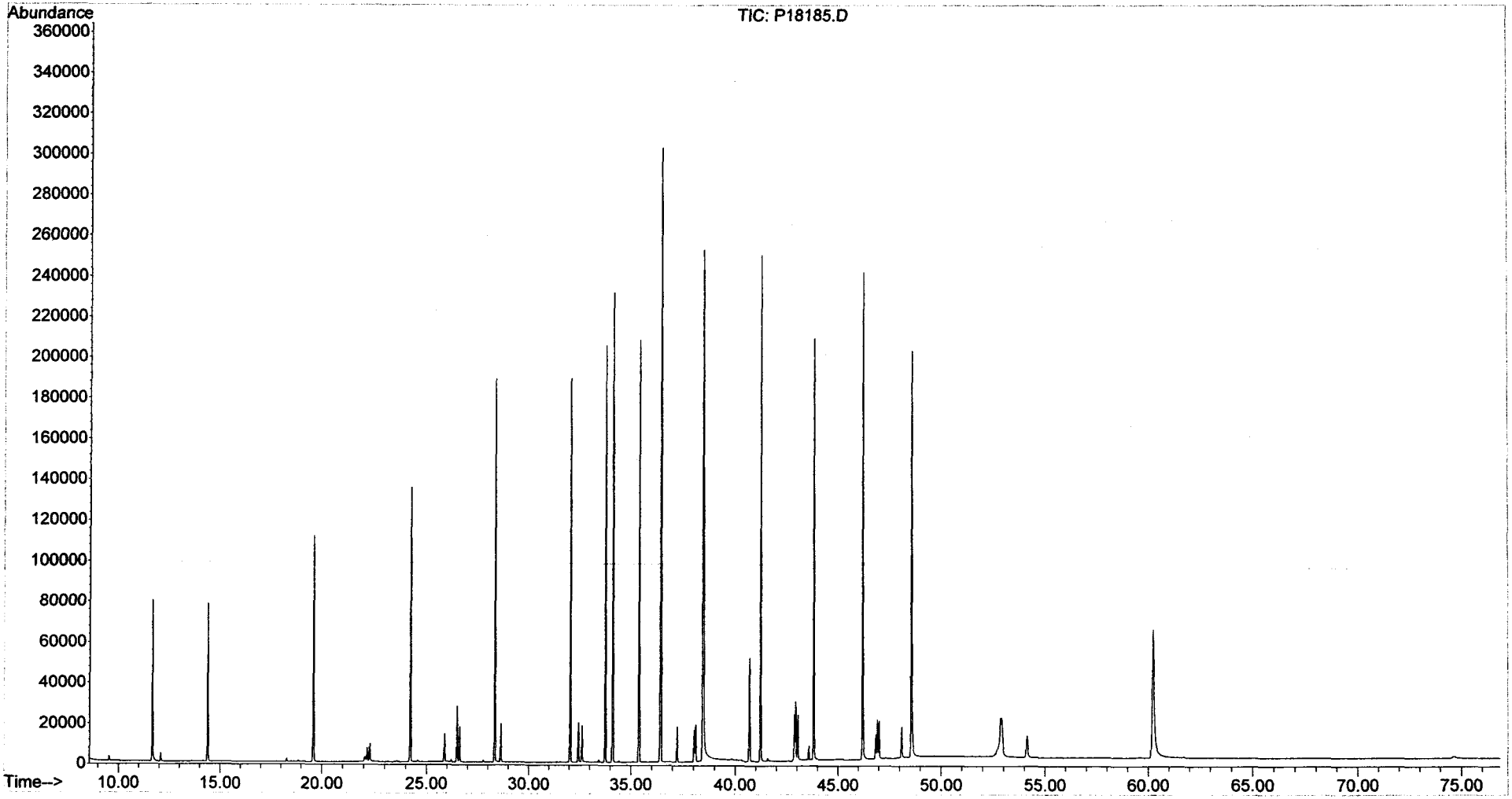
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.49	164	34448m	500.00	ng/mL	-0.02
72) Chrysene-d12	42.94	240	56624	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.17	152	15713	212.77	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 21.28%#			
58) Pyrene-d10	38.02	212	35903	236.46	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 23.65%#			
81) Benzo[b]fluoranthene-d12	46.84	264	25430	225.52	ng/mL	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 22.55%#			
125) 5B(H)Cholane - Surr	43.57	217	9045	406.53	ng/ml	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 40.65%#			
Target Compounds						Qvalue
9) Naphthalene	19.61	128	37410	212.65	ng/mL#	100
15) 2-Methylnaphthalene	22.29	142	22499	202.02	ng/mL#	100
25) Acenaphthylene	25.87	152	36014	213.51	ng/mL#	100
26) Acenaphthene	26.62	153	22151	211.41	ng/mL	99
28) Fluorene	28.64	166	24132m	205.36	ng/mL	
41) Phenanthrene	32.45	178	35379	203.04	ng/mL	99
53) Anthracene	32.62	178	32018	198.60	ng/mL	99
56) Fluoranthene	37.22	202	39367m	212.19	ng/mL	
59) Pyrene	38.10	202	41339	219.08	ng/mL	99
73) Benz[a]anthracene	42.88	228	39596m	229.72	ng/mL	
74) Chrysene	43.04	228	37893m	215.15	ng/mL	
75) Chrysene/Triphenylene	43.04	228	37909m	215.24	ng/mL	
82) Benzo[b]fluoranthene	46.93	252	39156	221.19	ng/mL	99
83) Benzo[k]fluoranthene	47.02	252	40790	221.49	ng/mL	99
86) Benzo[a]pyrene	48.11	252	35722	210.65	ng/mL	98
88) Indeno[1,2,3-cd]pyrene	52.84	276	35732m	239.44	ng/mL	
89) Dibenz[a,h]anthracene	52.91	278	36830	242.13	ng/mL#	80
90) Benzo[g,h,i]perylene	54.12	276	37901	220.40	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB13\
Data File : P18185.D
Acq On : 13 Feb 2006 9:37 pm
Operator : AC
Sample : SS020606LCS04
Misc : 1X RE-ALUMINA
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 14 11:03:18 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample Dup**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606LCSD05**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/06/06	02/11/06	100	30.00	4	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	**33**	S	Fluoranthene	**33**	S
C1-Naphthalenes	0.22	U	Pyrene	**34**	S
C2-Naphthalenes	0.22	U	C1-Fluoranthenes/Pyrenes	0.12	U
C3-Naphthalenes	0.22	U	C2-Fluoranthenes/Pyrenes	0.12	U
C4-Naphthalenes	0.22	U	C3-Fluoranthenes/Pyrenes	0.12	U
Biphenyl	0.12	U	C4-Fluoranthenes/Pyrenes	0.12	U
Dibenzofuran	0.16	U	Naphthobenzothiophenes	0.16	U
Acenaphthylene	**31**	S	C1-Naphthobenzothiophenes	0.16	U
Acenaphthene	**32**	S	C2-Naphthobenzothiophenes	0.16	U
Fluorene	**32**	S	C3-Naphthobenzothiophenes	0.16	U
C1-Fluorenes	0.15	U	C4-Naphthobenzothiophenes	0.16	U
C2-Fluorenes	0.15	U	Benz[a]anthracene	**33**	S
C3-Fluorenes	0.15	U	Chrysene/Triphenylene	**32**	S
Anthracene	**30**	S	C1-Chrysenes	0.14	U
Phenanthrene	**31**	S	C2-Chrysenes	0.14	U
C1-Phenanthrenes/Anthracenes	0.19	U	C3-Chrysenes	0.14	U
C2-Phenanthrenes/Anthracenes	0.19	U	C4-Chrysenes	0.14	U
C3-Phenanthrenes/Anthracenes	0.19	U	Benzo[b]fluoranthene	**33**	S
C4-Phenanthrenes/Anthracenes	0.19	U	Benzo[k]fluoranthene	**34**	S
Retene	0.19	U	Benzo[a]fluoranthene	0.27	U
Dibenzothiophene	0.15	U	Benzo[e]pyrene	0.18	U
C1-Dibenzothiophenes	0.15	U	Benzo[a]pyrene	**30**	S
C2-Dibenzothiophenes	0.15	U	Perylene	0.23	U
C3-Dibenzothiophenes	0.15	U	Indeno[1,2,3-cd]pyrene	**30**	S
C4-Dibenzothiophenes	0.15	U	Dibenz[a,h]anthracene	**32**	S
Benzo(b)fluorene	0.13	U	Benzo[g,h,i]perylene	**31**	S

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	98	50-130
Pyrene-d10	111	50-130
Benzo[b]fluoranthene-d12	104	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.
S - Spike compound.

02/14/06 18:36

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample Dup**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606LCSD05**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/06/06	02/11/06	100	30.00	4	1	AC

Parameter	Result
Carbazole	0.17 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	98	50-130
Pyrene-d10	111	50-130
Benzo[b]fluoranthene-d12	104	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 18:37

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB08\
Data File : P18119.D
Acq On : 11 Feb 2006 1:07 am
Operator : AC
Sample : SS020606LCSD05
Misc : 1X ETR0602004/070
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Feb 14 11:09:33 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MS 2/14/06

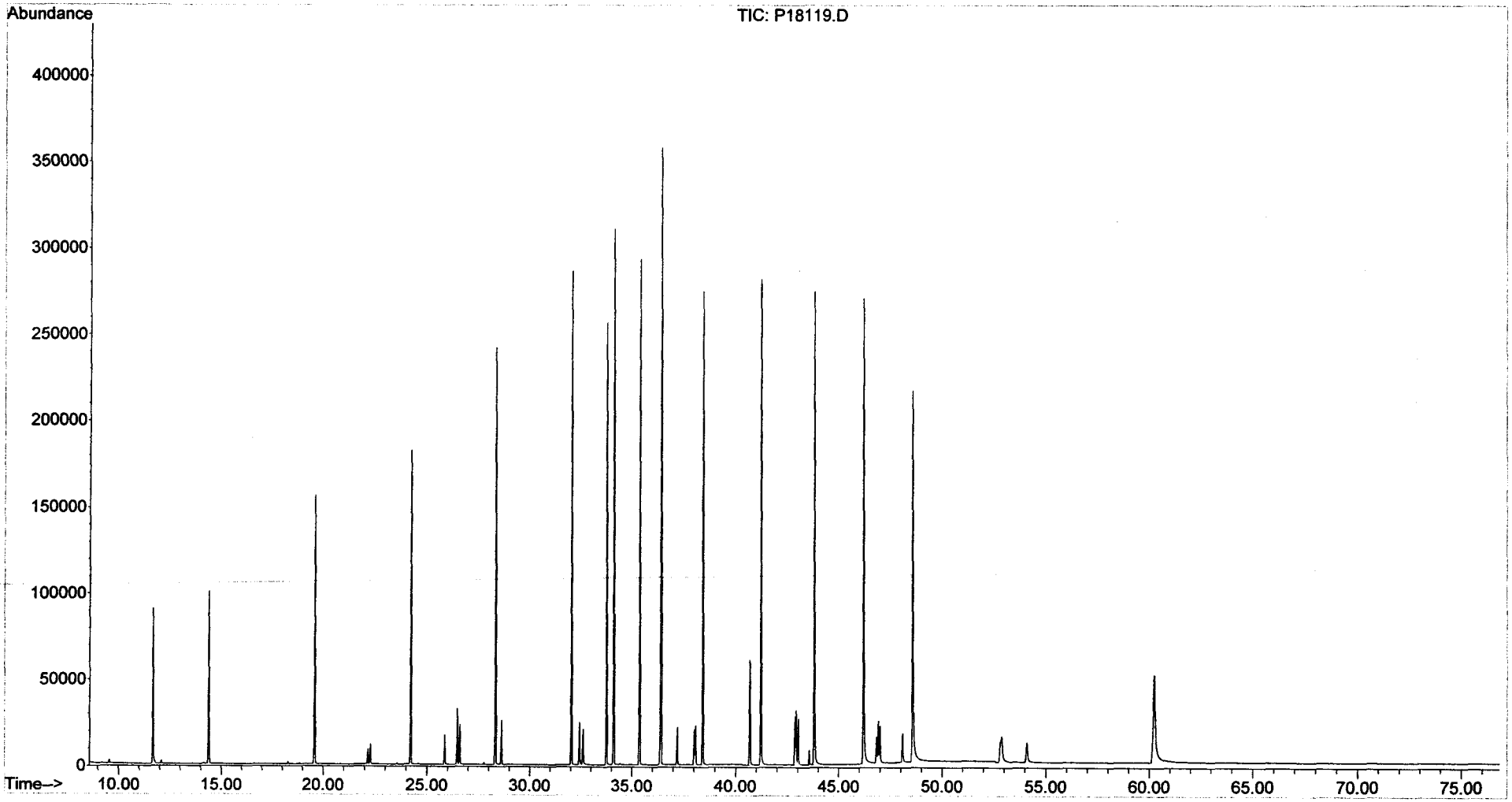
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.49	164	36313m	500.00	ng/mL	-0.02
72) Chrysene-d12	42.94	240	63017	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.18	152	19061	244.85	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 24.48%#			
58) Pyrene-d10	38.02	212	44364	277.18	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 27.72%#			
81) Benzo[b]fluoranthene-d12	46.84	264	32756	261.02	ng/mL	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 26.10%#			
125) 5B(H)Cholane - Surr	43.57	217	11171	451.15	ng/ml	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 45.12%#			
Target Compounds						Qvalue
9) Naphthalene	19.61	128	46464	250.55	ng/mL#	100
15) 2-Methylnaphthalene	22.29	142	27623	235.29	ng/mL#	100
25) Acenaphthylene	25.87	152	40972	230.42	ng/mL#	100
26) Acenaphthene	26.62	153	26644	241.23	ng/mL	100
28) Fluorene	28.64	166	29750	240.17	ng/mL	99
41) Phenanthrene	32.44	178	42176	229.61	ng/mL	99
53) Anthracene	32.62	178	38409	226.01	ng/mL	96
56) Fluoranthene	37.22	202	48187m	246.39	ng/mL	
59) Pyrene	38.10	202	51396	258.39	ng/mL	100
73) Benz[a]anthracene	42.88	228	46966m	244.83	ng/mL	
74) Chrysene	43.04	228	46252m	235.96	ng/mL	
75) Chrysene/Triphenylene	43.04	228	46378m	236.61	ng/mL	
82) Benzo[b]fluoranthene	46.93	252	48388	245.61	ng/mL	99
83) Benzo[k]fluoranthene	47.00	252	52003	253.73	ng/mL	99
86) Benzo[a]pyrene	48.11	252	42424	224.80	ng/mL	95
88) Indeno[1,2,3-cd]pyrene	52.83	276	36921m	222.31	ng/mL	
89) Dibenz[a,h]anthracene	52.90	278	40841	241.26	ng/mL	97
90) Benzo[g,h,i]perylene	54.10	276	44362	231.81	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB08\
Data File : P18119.D
Acq On : 11 Feb 2006 1:07 am
Operator : AC
Sample : SS020606LCSD05
Misc : 1X ETR0602004
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Feb 14 11:09:33 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Form III
Spike Recovery Summary
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS011106AWS02**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	N/A	100	AC

Parameter	True Conc.	Conc.	% Recovery	% Recovery Limits
Naphthalene	714.43	750	106	65-135
C1-Naphthalenes	1534.53	1500	96	65-135
C2-Naphthalenes	1897.27	1800	92	65-135
C3-Naphthalenes	1436.53	1300	90	65-135
C4-Naphthalenes	773.42	700	91	65-135
Biphenyl	216.49	200	95	65-135
Acenaphthene	15.55	17	112	65-135
Fluorene	87.56	84	96	65-135
C1-Fluorenes	219.89	210	96	65-135
C2-Fluorenes	341.2	320	94	65-135
C3-Fluorenes	299.61	300	99	65-135
Phenanthrene	272.58	270	99	65-135
C1-Phenanthrenes/Anthracenes	564.81	560	99	65-135
C2-Phenanthrenes/Anthracenes	660.43	630	95	65-135
C3-Phenanthrenes/Anthracenes	448.76	430	95	65-135
C4-Phenanthrenes/Anthracenes	175.88	160	93	65-135
Dibenzothiophene	218.8	230	105	65-135
C1-Dibenzothiophenes	434.54	420	97	65-135
C2-Dibenzothiophenes	551.44	570	104	65-135
C3-Dibenzothiophenes	460.96	470	102	65-135
C4-Dibenzothiophenes	236.77	240	102	65-135
Fluoranthene	4.26	4.3	102	65-135
Pyrene	15.56	14	93	65-135
C1-Fluoranthenes/Pyrenes	78.43	78	100	65-135
C2-Fluoranthenes/Pyrenes	132.93	120	91	65-135
C3-Fluoranthenes/Pyrenes	111.33	130	121	65-135
Chrysene/Triphenylene	50.99	46	89	65-135
C1-Chrysenes	81.69	76	93	65-135
C2-Chrysenes	95.93	87	91	65-135
C3-Chrysenes	89.87	90	100	65-135
C4-Chrysenes	51.86	50	96	65-135
Benzo[b]fluoranthene	6.54	5.8	89	65-135
Benzo[e]pyrene	12.88	12	92	65-135

02/14/06 23:20

Form III
Spike Recovery Summary
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS011106AWS02**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	N/A	100	AC

Parameter	True Conc.	Conc.	% Recovery	% Recovery Limits
Dibenz[a,h]anthracene	1.02	0.89	87	65-135
Benzo[g,h,i]perylene	3.35	3.5	104	65-135
Hopane	118.8	150	122	65-135

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

02/14/06 23:20

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form I
Alaska North Slope Crude
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS011106AWS02**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	N/A	01/05/06	100	0.051	10	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	**750**		Fluoranthene	**4.3**	
C1-Naphthalenes	**1500**		Pyrene	**14**	
C2-Naphthalenes	**1800**		C1-Fluoranthenes/Pyrenes	**78**	
C3-Naphthalenes	**1300**		C2-Fluoranthenes/Pyrenes	**120**	
C4-Naphthalenes	**700**		C3-Fluoranthenes/Pyrenes	**130**	
Biphenyl	**200**		C4-Fluoranthenes/Pyrenes	**100**	
Dibenzofuran	**69**		Naphthobenzothiophenes	**65**	
Acenaphthylene	**7.0**		C1-Naphthobenzothiophenes	**160**	
Acenaphthene	**17**		C2-Naphthobenzothiophenes	**190**	
Fluorene	**84**		C3-Naphthobenzothiophenes	**140**	
C1-Fluorenes	**210**		C4-Naphthobenzothiophenes	**90**	
C2-Fluorenes	**320**		Benz[a]anthracene	**1.8**	J
C3-Fluorenes	**300**		Chrysene/Triphenylene	**46**	
Anthracene	0.26	U	C1-Chrysenes	**76**	
Phenanthrene	**270**		C2-Chrysenes	**87**	
C1-Phenanthrenes/Anthracenes	**560**		C3-Chrysenes	**90**	
C2-Phenanthrenes/Anthracenes	**630**		C4-Chrysenes	**50**	
C3-Phenanthrenes/Anthracenes	**430**		Benzo[b]fluoranthene	**5.8**	
C4-Phenanthrenes/Anthracenes	**160**		Benzo[k]fluoranthene	0.40	U
Retene	0.28	U	Benzo[a]fluoranthene	**0.78**	J
Dibenzothiophene	**230**		Benzo[e]pyrene	**12**	
C1-Dibenzothiophenes	**420**		Benzo[a]pyrene	**1.1**	J
C2-Dibenzothiophenes	**570**		Perylene	**0.41**	J
C3-Dibenzothiophenes	**470**		Indeno[1,2,3-cd]pyrene	**1.1**	J
C4-Dibenzothiophenes	**240**		Dibenz[a,h]anthracene	**0.89**	J
Benzo(b)fluorene	0.20	U	Benzo[g,h,i]perylene	**3.5**	

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 23:19

Form I
Alaska North Slope Crude
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS011106AWS02**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	N/A	01/05/06	100	0.051	10	1	AC

Parameter	Result
Carbazole	6.6

N/A - Not Applicable

02/14/06 23:20

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN05\
Data File : P17308.D
Acq On : 5 Jan 2006 5:32 pm
Operator : AC
Sample : SS011106AWS02
Misc : ANS1010501
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 10 14:31:27 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jan 10 07:43:59 2006
Response via : Initial Calibration

AMS 1-11-06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.60	164	69939m	500.00	ng/mL	0.00
72) Chrysene-d12	43.09	240	121579	500.00	ng/mL	0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.28	152	149356	996.14	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 99.61%			
58) Pyrene-d10	38.16	212	339594m	1101.61	ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 110.16%			
81) Benzo[b]fluoranthene-d12	47.00	264	259580	1072.16	ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 107.22%			
125) 5B(H)Cholane - Surr	43.73	217	51605	1080.23	ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 108.02%			

Target Compounds						Qvalue
2) Decalin	16.30	138	163849m	2992.66	ng/mL	
3) trans-Decalin	16.30	138	139502	2308.97	ng/mL	100
4) cis-Decalin	17.51	138	4366m	96.04	ng/mL	
5) C1-Decalins	18.23	152	233049m	3857.32	ng/mL	
6) C2-Decalins	19.56	166	210016m	3476.09	ng/mL	
7) C3-Decalins	22.03	180	106753m	1766.93	ng/mL	
8) C4-Decalins	25.43	194	113003m	1870.37	ng/mL	
9) Naphthalene	19.71	128	1372507	3842.73	ng/mL#	100
10) C1-Naphthalenes	22.41	142	2684101m	7514.91	ng/mL	
11) C2-Naphthalenes	25.25	156	3188535m	8927.22	ng/mL	
12) C3-Naphthalenes	27.60	170	2346032m	6568.39	ng/mL	
13) C4-Naphthalenes	30.36	184	1276753m	3574.64	ng/mL	
15) 2-Methylnaphthalene	22.41	142	1574646	6963.95	ng/mL#	100
16) 1-Methylnaphthalene	22.83	142	1107443	5202.38	ng/mL#	100
17) Benzothiophene	19.93	134	8189m	25.70	ng/mL	
18) C1-Benzo(b)thiophenes	21.97	148	48497m	152.22	ng/mL	
19) C2-Benzo(b)thiophenes	25.45	162	91217m	286.31	ng/mL	
20) C3-Benzo(b)thiophenes	27.42	176	186680m	585.95	ng/mL	
21) C4-Benzo(b)thiophenes	29.17	190	166990m	524.15	ng/mL	
22) Biphenyl	24.29	154	293684m	1044.71	ng/mL	
23) 2,6-Dimethylnaphthalene	24.91	156	451153m	2404.20	ng/mL	
24) Dibenzofuran	27.37	168	111148	351.96	ng/mL#	84
25) Acenaphthylene	26.00	152	12198m	35.62	ng/mL	
26) Acenaphthene	26.75	153	18911m	88.90	ng/mL	
27) 2,3,5-Trimethylnaphthalene	28.29	170	163623m	971.32	ng/mL	
28) Fluorene	28.75	166	102550m	429.84	ng/mL	
29) C1-Fluorenes	31.11	180	255440m	1070.68	ng/mL	
30) C2-Fluorenes	33.32	194	387950m	1626.09	ng/mL	
31) C3-Fluorenes	35.15	208	361214m	1514.03	ng/mL	
32) Dibenzothiophene	32.07	184	410428	1166.54	ng/mL#	92
33) 4-Methyldibenzothiophene(4	33.85	198	377380	1072.61	ng/mL#	100
34) 2/3-Methyldibenzothiophene	34.20	198	257980	733.24	ng/mL#	100
35) 1-Methyldibenzothiophene(1	34.62	198	115320	327.77	ng/mL#	100
36) OTP	34.28	198	52349	148.79	ng/mL#	100
37) C1-Dibenzothiophenes	33.85	198	806277m	2291.64	ng/mL	
38) C2-Dibenzothiophenes	35.53	212	1024988m	2913.27	ng/mL	
39) C3-Dibenzothiophenes	37.35	226	840527m	2388.98	ng/mL	
40) C4-Dibenzothiophenes	39.04	240	432496m	1229.26	ng/mL	
41) Phenanthrene	32.56	178	488467	1380.74	ng/mL	95
42) 3-Methylphenanthrene(3MP)	34.53	192	203106	574.12	ng/mL	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN05\
Data File : P17308.D
Acq On : 5 Jan 2006 5:32 pm
Operator : AC
Sample : SS011106AWS02
Misc : ANS1010501
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 10 14:31:27 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jan 10 07:43:59 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2/4-Methylphenanthrene(2MP	34.64	192	233437	659.85	ng/mL	97
44) 2-Methylanthracene(2MA)	34.80	192	5940m	16.79	ng/mL	
45) 9-Methylphenanthrene(9MP)	34.99	192	324353	916.84	ng/mL	99
46) 1-Methylphenanthrene(1MP)	35.08	192	232051m	655.93	ng/mL	
47) C1-Phenanthrenes/Anthracen	34.99	192	1003136m	2835.55	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.81	206	1135756m	3210.42	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.65	220	770944m	2179.21	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.85	234	296394m	837.81	ng/mL	
54) Carbazole	33.42	167	10118m	33.40	ng/mL	
55) 1-Methylphenanthrene	35.08	192	231760m	956.76	ng/mL	
56) Fluoranthene	37.34	202	8303m	22.04	ng/mL	
59) Pyrene	38.23	202	28103m	73.36	ng/mL	
60) C1-Fluoranthenes/Pyrenes	39.63	216	153342m	400.26	ng/mL	
61) C2-Fluoranthenes/Pyrenes	41.44	230	237184m	619.11	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.46	244	261913m	683.66	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.82	258	200024m	522.12	ng/mL	
64) Naphthobenzothiophene	42.09	234	87648	244.55	ng/ml#	84
65) Naphthobenzothiophene-2,1-	42.09	234	87648	244.55	ng/mL#	84
66) Naphthobenzothiophene-1,2-	42.43	234	22215	61.98	ng/mL#	60
67) Naphthobenzothiophene-2,3-	42.73	234	9564	26.69	ng/mL#	1
68) C1-Naphthobenzothiophenes	43.50	248	288523m	805.03	ng/ml	
69) C2-Naphthobenzothiophenes	45.50	262	344746m	961.90	ng/ml	
70) C3-Naphthobenzothiophenes	47.11	276	260897m	727.95	ng/ml	
71) C4-Naphthobenzothiophenes	48.21	290	163651m	456.61	ng/mL	
73) Benz[a]anthracene	43.01	228	3496m	9.45	ng/mL	
74) Chrysene	43.15	228	87573m	231.57	ng/mL	
75) Chrysene/Triphenylene	43.15	228	87704m	231.92	ng/mL	
76) C1-Chrysenes	44.66	242	146771m	388.11	ng/mL	
77) C2-Chrysenes	47.37	256	180007m	476.00	ng/mL	
78) BBF-d12 Surr BKGD	46.99	256	11987	31.70	ng/mL	100
79) C3-Chrysenes	49.47	270	173205m	458.01	ng/mL	
80) C4-Chrysenes	49.06	284	95936m	253.69	ng/mL	
82) Benzo[b]fluoranthene	47.08	252	11218m	29.51	ng/mL	
84) Benzo[a]fluoranthene	47.45	252	1560m	3.95	ng/mL	
85) Benzo[e]pyrene	48.08	252	22267m	60.51	ng/mL	
86) Benzo[a]pyrene	48.28	252	1967m	5.40	ng/mL	
87) Perylene	48.59	252	738m	2.07	ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.12	276	1725m	5.38	ng/mL	
89) Dibenz[a,h]anthracene	53.15	278	1479m	4.53	ng/mL	
90) Benzo[g,h,i]perylene	54.41	276	6535m	17.70	ng/mL	
91) 17a(H),21B(H)-hopane - C30	52.27	191	78105m	731.65	ng/mL	
92) Hopane (T19)	52.27	191	79164m	741.57	ng/mL	
93) C23 Tricyclic Terpane (T4)	40.75	191	32968	308.83	ng/ml	100
94) C24 Tricyclic Terpane (T5)	41.47	191	22038	206.44	ng/ml	100
95) C25 Tricyclic Terpane (T6)	42.96	191	22936	214.85	ng/ml	100
96) C24 Tetracyclic Terpane (T	44.29	191	6991	65.49	ng/ml	100
97) C26 Tricyclic Terpane-22S	44.03	191	9296	87.08	ng/ml	100
98) C26 Tricyclic Terpane-22R	44.12	191	8228	77.08	ng/ml	100
99) C28 Tricyclic Terpane-22S	46.42	191	5998m	56.19	ng/ml	
100) C28 Tricyclic Terpane-22R	46.58	191	8471m	79.35	ng/ml	
101) C29 Tricyclic Terpane-22S	47.10	191	10607	99.36	ng/ml	100
102) C29 Tricyclic Terpane-22R	47.30	191	10309	96.57	ng/ml	100
103) 18a-22,29,30-Trisnorneohop	48.44	191	13999	131.14	ng/ml	100
104) C30 Tricyclic Terpane-22S	48.54	191	6887	64.51	ng/mL	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN05\
Data File : P17308.D
Acq On : 5 Jan 2006 5:32 pm
Operator : AC
Sample : SS011106AWS02
Misc : ANS1010501
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 10 14:31:27 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jan 10 07:43:59 2006
Response via : Initial Calibration

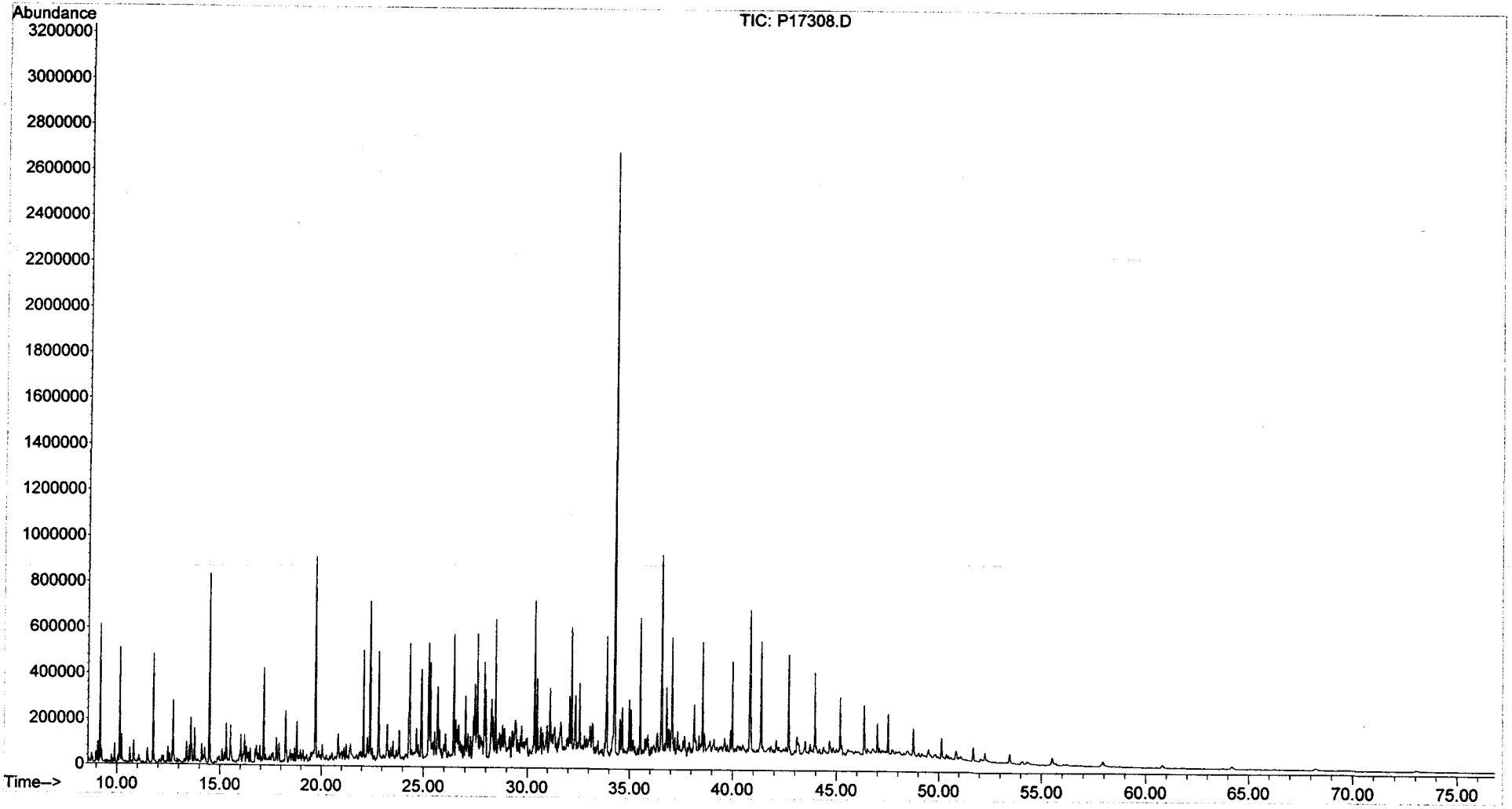
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) C30 Tricyclic Terpane-22R	48.79	191	8136m	76.21	ng/mL	
106) 17a(H)-22,29,30-Trisnorhop	48.99	191	15800m	148.01	ng/ml	
107) 17a/b,21b/a 28,30-Bisnorho	50.20	191	3610	33.82	ng/ml	100
108) 17a(H),21b(H)-25-Norhopane	50.00	191	3915	36.67	ng/ml	100
109) 30-Norhopane (T15)	50.87	191	42626m	399.30	ng/ml	
110) 18a(H)-30-Norneohopane-C29	50.98	191	9988m	93.56	ng/ml	
111) 17a(H)-Diahopane (X)	51.12	191	5756m	53.92	ng/ml	
112) 30-Normoretane (T17)	51.66	191	5261m	49.28	ng/ml	
114) Moretane (T20)	52.96	191	6334m	59.33	ng/ml	
115) 30-Homohopane-22S (T21)	54.09	191	36303	340.07	ng/ml	100
116) 30-Homohopane-22R (T22)	54.33	191	29082	272.43	ng/ml	100
117) 30,31-Bishomohopane-22S (T	55.68	191	25307	237.06	ng/ml	100
118) 30,31-Bishomohopane-22R (T	56.06	191	19574	183.36	ng/ml	100
119) 30,31-Trishomohopane-22S (	57.84	191	21032	197.02	ng/ml	100
120) 30,31-Trishomohopane-22R (	58.48	191	14302	133.97	ng/ml	100
121) Tetrakishomohopane-22S (T3	60.53	191	14453	135.39	ng/ml	100
122) Tetrakishomohopane-22R (T3	61.44	191	11166	104.60	ng/ml	100
123) Pentakishomohopane-22S (T3	63.75	191	16108	150.89	ng/ml	100
124) Pentakishomohopane-22R (T3	65.05	191	12028	112.67	ng/ml	100
126) 13b(H),17a(H)-20S-Diachole	45.24	217	12046m	252.15	ng/ml	
127) 13b(H),17a(H)-20R-Diachole	45.67	217	6741	141.11	ng/ml	100
128) 13b,17a-20S-Methyldiachole	46.37	217	6566m	137.44	ng/ml	
129) 14a(H),17a(H)-20S-Cholesta	47.24	217	6566m	137.44	ng/ml	
130) 14a(H),17a(H)-20R-Cholesta	47.77	217	20341m	425.79	ng/ml	
131) 13b,17a-20R-Ethyldiacholes	48.06	217	5676	118.81	ng/ml	100
132) 13a,17b-20S-Ethyldiacholes	48.32	217	1570	32.86	ng/ml	100
133) 14a,17a-20S-Methylcholesta	48.48	217	4828m	101.06	ng/ml	
134) 14a,17a-20R-Methylcholesta	49.20	217	9561m	200.14	ng/ml	
135) 14a(H),17a(H)-20S-Ethylcho	49.56	217	13425m	281.02	ng/ml	
136) 14a(H),17a(H)-20R-Ethylcho	50.47	217	10942m	229.04	ng/ml	
137) 14b(H),17b(H)-20R-Cholesta	47.34	218	10496m	219.71	ng/ml	
138) 14b(H),17b(H)-20S-Cholesta	47.41	218	11278m	236.08	ng/ml	
139) 14b,17b-20R-Methylcholesta	48.65	218	12015m	251.51	ng/ml	
140) 14b,17b-20S-Methylcholesta	48.73	218	13914m	291.26	ng/ml	
141) 14b(H),17b(H)-20R-Ethylcho	49.80	218	16661	348.76	ng/ml	100
142) 14b(H),17b(H)-20S-Ethylcho	49.85	218	12077m	252.80	ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN05\
Data File : P17308.D
Acq On : 5 Jan 2006 5:32 pm
Operator : AC
Sample : SS011106AWS02
Misc : ANS1010501
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 10 14:31:27 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jan 10 07:43:59 2006
Response via : Initial Calibration



Form III
Spike Recovery Summary
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS021106AWS02**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	N/A	100	AC

Parameter	True Conc.	Conc.	% Recovery	% Recovery Limits
Hopane	118.8	160	132	65-135

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

02/14/06 23:21

Form I
Alaska North Slope Crude
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS021106AWS02**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	N/A	02/10/06	100	0.051	10	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	66	30,31-Bishomohopane-22S	53
C24 Tricyclic Terpane	45	30,31-Bishomohopane-22R	39
C25 Tricyclic Terpane	43	30,31-Trishomohopane-22S	38
C24 Tetracyclic Terpane	14	30,31-Trishomohopane-22R	25
C26 Tricyclic Terpane-22S	14	Tetrakishomohopane-22S	28
C26 Tricyclic Terpane-22R	15	Tetrakishomohopane-22R	20
C28 Tricyclic Terpane-22S	13	Pentakishomohopane-22S	30
C28 Tricyclic Terpane-22R	16	Pentakishomohopane-22R	20
C29 Tricyclic Terpane-22S	22	13b(H),17a(H)-20S-Diacholestane	58
C29 Tricyclic Terpane-22R	22	13b(H),17a(H)-20R-Diacholestane	27
18a-22,29,30-Trisnorneohopane-TS	26	13b,17a-20S-Methyldiacholestane	24
C30 Tricyclic Terpane-22S	14	14a(H),17a(H)-20S-Cholestane	23
C30 Tricyclic Terpane-22R	12	14a(H),17a(H)-20R-Cholestane	89
17a(H)-22,29,30-Trisnorhopane-TM	38	13b,17a-20R-Ethyldiacholestane	16
17a/b,21b/a 28,30-Bisnorhopane	6.4	13a,17b-20S-Ethyldiacholestane	4.4
17a(H),21b(H)-25-Norhopane	5.7	14a,17a-20S-Methylcholestane	18
30-Norhopane	93	14a,17a-20R-Methylcholestane	43
18a(H)-30-Norneohopane-C29Ts	19	14a(H),17a(H)-20S-Ethylcholestane	66
17a(H)-Diahopane	12	14a(H),17a(H)-20R-Ethylcholestane	53
30-Normoretane	11	14b(H),17b(H)-20R-Cholestane	46
18a(H)&18b(H)-Oleananes	0.55 U	14b(H),17b(H)-20S-Cholestane	49
Hopane	160	14b,17b-20R-Methylcholestane	50
Moretane	14	14b,17b-20S-Methylcholestane	64
30-Homohopane-22S	72	14b(H),17b(H)-20R-Ethylcholestane	68
30-Homohopane-22R	59	14b(H),17b(H)-20S-Ethylcholestane	59

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 23:21

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28201B.D
Acq On : 10 Feb 2006 12:05 pm
Operator : AC
Sample : SS021106AWS02
Misc : ANS2020902
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Feb 13 06:43:21 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

MS for MAL 2/13/06

2/13/06.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00 ng/mL	-30.25
64) Chrysene-d12	43.63	240	47288	500.00 ng/mL	0.00

System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#		
50) Pyrene-d10	0.00	212	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#		
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#		
117) 5B(H)Cholane - Surr	44.20	217	23747	1180.81 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 118.08%		

Target Compounds					Qvalue
83) 17a(H),21B(H)-hopane - C30	52.93	191	37464m	802.61 ng/mL	
84) Hopane (T19)	52.93	191	37164m	796.19 ng/mL	
85) C23 Tricyclic Terpane (T4)	41.21	191	15756m	337.55 ng/ml	
86) C24 Tricyclic Terpane (T5)	41.94	191	10637	227.88 ng/ml	100
87) C25 Tricyclic Terpane (T6)	43.43	191	10322m	221.13 ng/ml	
88) C24 Tetracyclic Terpane (T	44.76	191	3295m	70.59 ng/ml	
89) C26 Tricyclic Terpane-22S	44.48	191	3207m	68.71 ng/ml	
90) C26 Tricyclic Terpane-22R	44.58	191	3555m	76.16 ng/ml	
91) C28 Tricyclic Terpane-22S	46.87	191	3106m	66.54 ng/ml	
92) C28 Tricyclic Terpane-22R	47.04	191	3711m	79.50 ng/ml	
93) C29 Tricyclic Terpane-22S	47.57	191	5103m	109.32 ng/ml	
94) C29 Tricyclic Terpane-22R	47.77	191	5108m	109.43 ng/ml	
95) 18a-22,29,30-Trisnorneohop	48.97	191	6248m	133.85 ng/ml	
96) C30 Tricyclic Terpane-22S	49.04	191	3291m	70.51 ng/mL	
97) C30 Tricyclic Terpane-22R	49.29	191	2933m	62.84 ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	49.54	191	9004	192.90 ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	50.79	191	1516m	32.48 ng/ml	
100) 17a(H),21b(H)-25-Norhopane	50.54	191	1355m	29.03 ng/ml	
101) 30-Norhopane (T15)	51.49	191	22084m	473.12 ng/ml	
102) 18a(H)-30-Norneohopane-C29	51.59	191	4537m	97.20 ng/ml	
103) 17a(H)-Diahopane (X)	51.72	191	2924m	62.64 ng/ml	
104) 30-Normoretane (T17)	52.31	191	2622	56.17 ng/ml	100
106) Moretane (T20)	53.66	191	3434m	73.57 ng/ml	
107) 30-Homohopane-22S (T21)	54.82	191	17201m	368.51 ng/ml	
108) 30-Homohopane-22R (T22)	55.06	191	14067m	301.37 ng/ml	
109) 30,31-Bishomohopane-22S (T	56.47	191	12568m	269.25 ng/ml	
110) 30,31-Bishomohopane-22R (T	56.88	191	9183m	196.73 ng/ml	
111) 30,31-Trishomohopane-22S (	58.74	191	9065m	194.21 ng/ml	
112) 30,31-Trishomohopane-22R (	59.39	191	5990m	128.33 ng/ml	
113) Tetrakishomohopane-22S (T3	61.54	191	6692m	143.37 ng/ml	
114) Tetrakishomohopane-22R (T3	62.49	191	4748	101.72 ng/ml	100
115) Pentakishomohopane-22S (T3	64.88	191	7158	153.35 ng/ml	100
116) Pentakishomohopane-22R (T3	66.27	191	4757m	101.91 ng/ml	
118) 13b(H),17a(H)-20S-Diachole	45.71	217	5971	296.90 ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	46.12	217	2770m	137.74 ng/ml	
120) 13b,17a-20S-Methyldiachole	46.83	217	2422m	120.43 ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	47.72	217	2335m	116.11 ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	48.26	217	9148m	454.88 ng/ml	
123) 13b,17a-20R-Ethyldiacholes	48.54	217	1665m	82.79 ng/ml	
124) 13a,17b-20S-Ethyldiacholes	48.82	217	447	22.23 ng/ml	100

MS 2/13/06

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28201B.D
Acq On : 10 Feb 2006 12:05 pm
Operator : AC
Sample : SS021106AWS02
Misc : ANS2020902
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Feb 13 06:43:21 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
125) 14a,17a-20S-Methylcholesta	48.99	217	1809m	89.95	ng/ml	
126) 14a,17a-20R-Methylcholesta	49.74	217	4429m	220.23	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	50.11	217	6737m	334.99	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	51.06	217	5388m	267.92	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	47.81	218	4746	235.99	ng/ml	100
130) 14b(H),17b(H)-20S-Cholesta	47.90	218	5064m	251.80	ng/ml	
131) 14b,17b-20R-Methylcholesta	49.16	218	5071m	252.15	ng/ml	
132) 14b,17b-20S-Methylcholesta	49.25	218	6519m	324.15	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	50.37	218	6931m	344.64	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	50.40	218	6029m	299.79	ng/ml	

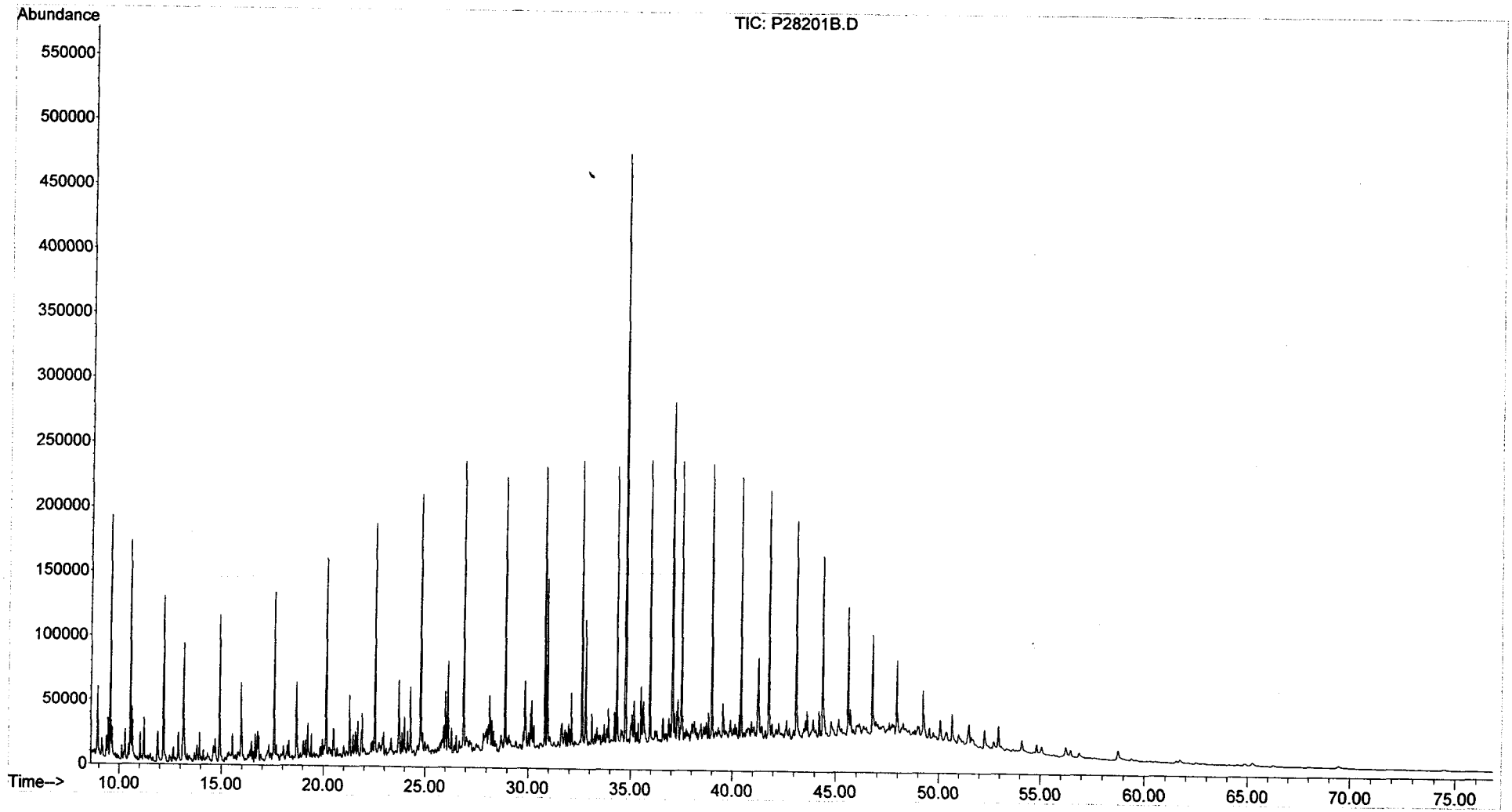
RF+Rpt conc
2nd
cr 2/14/06

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28201B.D
Acq On : 10 Feb 2006 12:05 pm
Operator : AC
Sample : SS021106AWS02
Misc : ANS2020902
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Feb 13 06:43:21 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration



Form III
Spike Recovery Summary
Steranes and Triterpanes

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012506AWS01**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	N/A	100	AC

Parameter	True Conc.	Conc.	% Recovery	% Recovery Limits
Hopane	118.8	160	134	65-135

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

02/14/06 23:17

Form I
Alaska North Slope Crude
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012506AWS01**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	N/A	01/12/06	100	0.051	10	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	66	30,31-Bishomohopane-22S	53
C24 Tricyclic Terpane	45	30,31-Bishomohopane-22R	39
C25 Tricyclic Terpane	42	30,31-Trishomohopane-22S	39
C24 Tetracyclic Terpane	13	30,31-Trishomohopane-22R	25
C26 Tricyclic Terpane-22S	16	Tetrakishomohopane-22S	28
C26 Tricyclic Terpane-22R	16	Tetrakishomohopane-22R	20
C28 Tricyclic Terpane-22S	14	Pentakishomohopane-22S	29
C28 Tricyclic Terpane-22R	17	Pentakishomohopane-22R	22
C29 Tricyclic Terpane-22S	21	13b(H),17a(H)-20S-Diacholestane	56
C29 Tricyclic Terpane-22R	22	13b(H),17a(H)-20R-Diacholestane	26
18a-22,29,30-Trisnorneohopane-TS	30	13b,17a-20S-Methyldiacholestane	24
C30 Tricyclic Terpane-22S	16	14a(H),17a(H)-20S-Cholestane	27
C30 Tricyclic Terpane-22R	16	14a(H),17a(H)-20R-Cholestane	90
17a(H)-22,29,30-Trisnorhopane-TM	37	13b,17a-20R-Ethyldiacholestane	20
17a/b,21b/a 28,30-Bisnorhopane	5.6	13a,17b-20S-Ethyldiacholestane	5.2
17a(H),21b(H)-25-Norhopane	7.1	14a,17a-20S-Methylcholestane	17
30-Norhopane	93	14a,17a-20R-Methylcholestane	42
18a(H)-30-Norneohopane-C29Ts	21	14a(H),17a(H)-20S-Ethylcholestane	55
17a(H)-Diahopane	11	14a(H),17a(H)-20R-Ethylcholestane	46
30-Normoretane	11	14b(H),17b(H)-20R-Cholestane	48
18a(H)&18b(H)-Oleananes	0.55 U	14b(H),17b(H)-20S-Cholestane	47
Hopane	160	14b,17b-20R-Methylcholestane	48
Moretane	14	14b,17b-20S-Methylcholestane	64
30-Homohopane-22S	74	14b(H),17b(H)-20R-Ethylcholestane	73
30-Homohopane-22R	60	14b(H),17b(H)-20S-Ethylcholestane	47

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 23:17

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH3\January06\JAN11\
Data File : P34770.D
Acq On : 12 Jan 2006 2:32 am
Operator : AC
Sample : SS012506AWS01
Misc : ANS3011101
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 25 12:12:42 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Jan 13 06:21:10 2006
Response via : Initial Calibration

MS 1/25/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.37	240	70030	500.00	ng/mL	-0.04

System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.93	217	33089m	1124.26	ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 112.43%			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.50	191	48689m	809.05	ng/mL	
84) Hopane (T19)	52.50	191	48881m	812.25	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.95	191	20159m	334.98	ng/ml	
86) C24 Tricyclic Terpane (T5)	41.68	191	13909	231.12	ng/ml	100
87) C25 Tricyclic Terpane (T6)	43.16	191	12863m	213.74	ng/ml	
88) C24 Tetracyclic Terpane (T	44.49	191	4087	67.91	ng/ml	100
89) C26 Tricyclic Terpane-22S	44.22	191	4764m	79.16	ng/ml	
90) C26 Tricyclic Terpane-22R	44.32	191	4866m	80.86	ng/ml	
91) C28 Tricyclic Terpane-22S	46.60	191	4320m	71.78	ng/ml	
92) C28 Tricyclic Terpane-22R	46.77	191	5254	87.30	ng/ml	100
93) C29 Tricyclic Terpane-22S	47.29	191	6514m	108.24	ng/ml	
94) C29 Tricyclic Terpane-22R	47.49	191	6824m	113.39	ng/ml	
95) 18a-22,29,30-Trisnorneohop	48.65	191	9295	154.45	ng/ml	100
96) C30 Tricyclic Terpane-22S	48.73	191	4858m	80.72	ng/mL	
97) C30 Tricyclic Terpane-22R	48.97	191	4756m	79.03	ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	49.20	191	11399	189.41	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	50.43	191	1702m	28.28	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	50.19	191	2188	36.36	ng/ml	100
101) 30-Norhopane (T15)	51.10	191	28539	474.23	ng/ml	100
102) 18a(H)-30-Norneohopane-C29	51.20	191	6373m	105.90	ng/ml	
103) 17a(H)-Diahopane (X)	51.33	191	3346	55.60	ng/ml	100
104) 30-Normoretane (T17)	51.89	191	3333	55.38	ng/ml	100
106) Moretane (T20)	53.20	191	4341m	72.13	ng/ml	
107) 30-Homohopane-22S (T21)	54.32	191	22669	376.69	ng/ml	100
108) 30-Homohopane-22R (T22)	54.55	191	18500m	307.41	ng/ml	
109) 30,31-Bishomohopane-22S (T	55.91	191	16187	268.98	ng/ml	100
110) 30,31-Bishomohopane-22R (T	56.30	191	12050	200.23	ng/ml	100
111) 30,31-Trishomohopane-22S (	58.09	191	12088m	200.86	ng/ml	
112) 30,31-Trishomohopane-22R (	58.73	191	7754m	128.85	ng/ml	
113) Tetrakishomohopane-22S (T3	60.79	191	8432	140.11	ng/ml	100
114) Tetrakishomohopane-22R (T3	61.70	191	5982	99.40	ng/ml	100
115) Pentakishomohopane-22S (T3	64.01	191	8806m	146.33	ng/ml	
116) Pentakishomohopane-22R (T3	65.32	191	6839m	113.64	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	45.44	217	8350	283.71	ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	45.85	217	3834m	130.27	ng/ml	
120) 13b,17a-20S-Methyldiachole	46.56	217	3541m	120.31	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	47.43	217	4085m	138.80	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.96	217	13500m	458.69	ng/ml	
123) 13b,17a-20R-Ethyldiacholes	48.24	217	2996	101.79	ng/ml	100
124) 13a,17b-20S-Ethyldiacholes	48.51	217	785m	26.67	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH3\January06\JAN11\
Data File : P34770.D
Acq On : 12 Jan 2006 2:32 am
Operator : AC
Sample : SS012506AWS01
Misc : ANS3011101
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 25 12:12:42 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Jan 13 06:21:10 2006
Response via : Initial Calibration

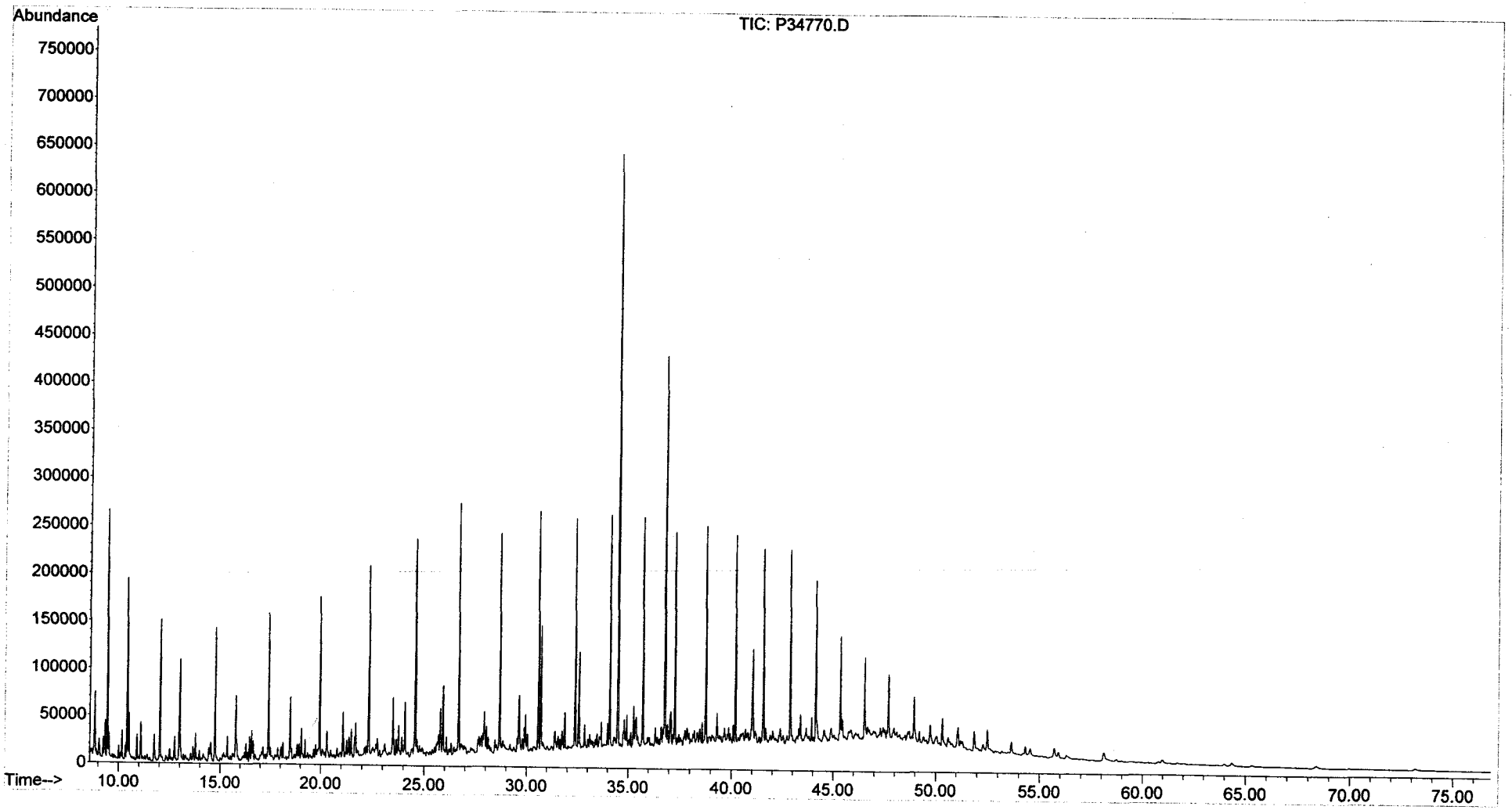
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
125) 14a,17a-20S-Methylcholesta	48.68	217	2524m	85.76 ng/ml	
126) 14a,17a-20R-Methylcholesta	49.41	217	6356m	215.96 ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	49.77	217	8252m	280.38 ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	50.69	217	6836m	232.27 ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	47.52	218	7198m	244.56 ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	47.61	218	7077m	240.45 ng/ml	
131) 14b,17b-20R-Methylcholesta	48.84	218	7244m	246.13 ng/ml	
132) 14b,17b-20S-Methylcholesta	48.93	218	9665m	328.39 ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	50.02	218	10882	369.74 ng/ml	100
134) 14b(H),17b(H)-20S-Ethylcho	50.06	218	6995m	237.67 ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH3\January06\JAN11\
Data File : P34770.D
Acq On : 12 Jan 2006 2:32 am
Operator : AC
Sample : SS012506AWS01
Misc : ANS3011101
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 25 12:12:42 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Jan 13 06:21:10 2006
Response via : Initial Calibration



Sequence Name: C:\MSDChem\1\sequence\S1013101.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\JANUARY06\JAN31\

Top	Pre-Seq Cmd:
Instrument Control	Pre-Seq Cmd:
Data Analysis	Pre-Seq Cmd:
	Post-Seq Cmd:
Instrument Control	Post-Seq Cmd:
Data Analysis	Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

2/3/05

Line			Sample Name/Misc Info		
1)	Debug				
2)	RearSamp	51	P17873	FRNC1D	ALK STD
3)	Sample	1	P17874	FRNC1D	PAH STD
4)	Sample	2	P17875	FRNC1D	C1013101 PASS
5)	Sample	3	P17876	FRNC1D	ANS1013101
6)	Sample	4	P17877	FRNC1D	DCM
7)	Sample	5	P17878	FRNC1D	DCM
8)	Sample	6	P17879	FRNC1D	BLK S0012706B02
9)	Sample	7	P17880	FRNC1D	LCS LCS02
10)	Sample	8	P17881	FRNC1D	LCSD LCSD02
11)	Sample	9	P17882	FRNC1D	0601072-01 ✓
12)	Sample	10	P17883	FRNC1D	0601072-01D ✓
13)	Sample	11	P17884	FRNC1D	0601072-01TRP ✓
14)	Sample	12	P17885	FRNC1D	0601072-02 ✓
15)	Sample	13	P17886	FRNC1D	0601072-02D ✓
16)	Sample	14	P17887	FRNC1D	0601072-03 ✓
17)	Pause				
18)	DualTwr				
19)	SepGC1				
[illegible]	RearSamp	51	P17888	FRNC1D	DCM-AFID
[illegible]	Sample	15	P17889	FRNC1D	0601072-04 ✓
22)	RearSamp	51	P17890	FRNC1D	DCM-AFID
23)	Sample	16	P17891	FRNC1D	C1013102 PASS
24)	RearSamp	51	P17892	FRNC1D	DCM-AFID
25)	Sample	17	P17893	FRNC1D	0601072-13 ✓
26)	RearSamp	51	P17894	FRNC1D	DCM
27)	Sample	18	P17895	FRNC1D	0601072-18 ✓
28)	RearSamp	51	P17896	FRNC1D	DCM-AFID
29)	Sample	19	P17897	FRNC1D	DCM
30)	RearSamp	52	P17898	FRNC1D	C1020101-AFID PASS 2/3/05
31)	Sample	20	P17899	FRNC1D	SS013106B08 ✓
32)	RearSamp	53	P17900	FRNC1D	ANS1020101-AFID T0020306AWS01 2/3/05
33)	Sample	21	P17901	FRNC1D	SS013106LCS03 ✓
34)	RearSamp	54	P17902	FRNC1D	DCM-AFID
35)	Sample	22	P17903	FRNC1D	SS013106LCSD03 ✓
36)	RearSamp	55	P17904	FRNC1D	DCM-AFID IB101310601 2/3/05
37)	Sample	23	P17905	FRNC1D	0601080-01 ✓
38)	RearSamp	56	P17906	FRNC1D	SS013106B08-AFID
39)	Sample	24	P17907	FRNC1D	0601080-01D ✓
40)	RearSamp	57	P17908	FRNC1D	SS013106LCS03-AFID
41)	Sample	25	P17909	FRNC1D	0601080-01TRP ✓
42)	RearSamp	58	P17910	FRNC1D	SS013106LCSD03-AFID
43)	Sample	26	P17911	FRNC1D	~~C1013103~~ DCM

PAH #1 Sequence Information

SHC Continuing Calibration: WHAC10 Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: HC11005.M PAH Process Method: PAH10104.M

Last Modified: Wed Feb 01 11:18:17 2006

Sequence Name: C:\MSDCHEM\1\SEQUENCE\S1013101.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	59	P17912	FRNC1D	0601080-01-AFID
45)	Sample	27	P17913	FRNC1D	0601080-02 ✓
46)	RearSamp	60	P17914	FRNC1D	0601080-01D-AFID
47)	Sample	28	P17915	FRNC1D	0601080-02D ✓
48)	RearSamp	61	P17916	FRNC1D	0601080-01TRP-AFID
49)	Sample	29	P17917	FRNC1D	0601080-03 ✓
50)	RearSamp	99	P17917A	FRNC1D	DCM
51)	Sample	100	P17917B	FRNC1D	C1013103 PASS
52)	RearSamp	62	P17918	FRNC1D	0601080-02-AFID
53)	Sample	30	P17919	FRNC1D	0601080-04 ✓
54)	RearSamp	63	P17920	FRNC1D	0601080-02D-AFID
55)	Sample	31	P17921	FRNC1D	0601080-05 ✓
56)	RearSamp	99	P17921A	FRNC1D	DCM-AFID
57)	Sample	100	P17921B	FRNC1D	QA WHAC40
58)	RearSamp	64	P17922	FRNC1D	0601080-03-AFID
59)	Sample	32	P17923	FRNC1D	0601080-06 ✓
60)	RearSamp	65	P17924	FRNC1D	C1020102-AFID PASS
61)	Sample	33	P17925	FRNC1D	C1013104 PASS
62)	RearSamp	66	P17926	FRNC1D	DCM-AFID
63)	Sample	34	P17927	FRNC1D	DCM
64)	RearSamp	67	P17928	FRNC1D	0601080-04-AFID
65)	Sample	35	P17929	FRNC1D	0601070-01-~~RE~~ ✓
66)	RearSamp	68	P17930	FRNC1D	0601080-05-AFID
67)	Sample	36	P17931	FRNC1D	0601070-02-~~RE~~ ✓
68)	RearSamp	69	P17932	FRNC1D	0601080-06-AFID
69)	Sample	37	P17933	FRNC1D	0601070-03-RE ✓
70)	RearSamp	70	P17934	FRNC1D	C1020103-AFID PASS
71)	Sample	38	P17935	FRNC1D	0601070-04-RE ✓ — Re-Extract not used MS 2/16/06
72)	RearSamp	71	P17936	FRNC1D	DCM-AFID
73)	Sample	39	P17937	FRNC1D	0601070-05-~~RE~~ ✓
74)	RearSamp	72	P17938	FRNC1D	DCM-AFID
75)	Sample	40	P17939	FRNC1D	0601070-06-RE ✓
76)	RearSamp	73	P17940	FRNC1D	DCM-AFID
77)	Sample	41	P17941	FRNC1D	0601070-07-RE ✓
78)	RearSamp	74	P17942	FRNC1D	DCM-AFID
79)	Sample	42	P17943	FRNC1D	0601070-08-RE ✓
80)	RearSamp	75	P17944	FRNC1D	DCM-AFID
81)	Sample	43	P17945	FRNC1D	0601070-09-RE ✓
82)	RearSamp	75	P17946	FRNC1D	
83)	Sample	44	P17947	FRNC1D	0601070-09D-RE NO IS, rerun (reprep w/IS)
84)	Pause				
85)	RearSamp	51	P17948	FRNC1D	C1020301-AFID Sequence continued
86)	Sample	1	P17949	FRNC1D	C1020301 S1020301.
87)	RearSamp	52	P17950	FRNC1D	DCM-AFID
88)	Sample	2	P17951	FRNC1D	DCM
89)	RearSamp	53	P17952	FRNC1D	
90)	Sample	3	P17953	FRNC1D	0601080-02D-RE
91)	RearSamp	54	P17954	FRNC1D	
92)	Sample	4	P17955	FRNC1D	0601080-02-RE
93)	RearSamp	55	P17956	FRNC1D	
94)	Sample	5	P17957	FRNC1D	0601080-03-RE
95)	RearSamp	56	P17958	FRNC1D	
96)	Sample	6	P17959	FRNC1D	0601080-04-RE

MS 2/16/06

Sequence Name: C:\MSDChem\1\sequence\S1020301.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\FEBRUARY06\FEB03\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line					Sample Name/Misc Info
1)	Debug				
2)	DualTwr				
3)	SepGC1				
4)	RearSamp	51	P17948	FRNC1D	C1020301-AFID
5)	Sample	1	P17949	FRNC1D	C1020301 PASS
6)	RearSamp	52	P17950	FRNC1D	DCM-AFID
7)	Sample	2	P17951	FRNC1D	DCM
8)	RearSamp	53	P17952	FRNC1D	SS012606B19-AFID
9)	Sample	3	P17953	FRNC1D	0601080-02D-RE ✓
10)	RearSamp	54	P17954	FRNC1D	SS013006B05-AFID
11)	Sample	4	P17955	FRNC1D	0601080-02-RE ✓
12)	RearSamp	55	P17956	FRNC1D	SS012606LCS05
13)	Sample	5	P17957	FRNC1D	0601080-03-RE ✓
14)	RearSamp	56	P17958	FRNC1D	SS012606LCSD05
15)	Sample	6	P17959	FRNC1D	0601080-04-RE ✓
16)	RearSamp	57	P17960	FRNC1D	SS013006LCS03
17)	Sample	7	P17961	FRNC1D	0601080-05-RE ✓
18)	RearSamp	58	P17962	FRNC1D	SS013006LCSD04
19)	Sample	8	P17963	FRNC1D	0601080-06-RE ✓
20)	RearSamp	59	P17964	FRNC1D	C1020302-AFID
21)	Sample	9	P17965	FRNC1D	C1020302 OK for DILUTIONS
22)	RearSamp	60	P17966	FRNC1D	0601070-01-AFID
23)	Sample	10	P17967	FRNC1D	DCM
24)	RearSamp	61	P17968	FRNC1D	0601070-02-AFID
25)	Sample	11	P17969	FRNC1D	DCM
26)	RearSamp	62	P17970	FRNC1D	0601070-03-AFID
27)	Sample	12	P17971	FRNC1D	SS012606B19 - rerun
28)	RearSamp	63	P17972	FRNC1D	0601070-05-AFID
29)	Sample	13	P17973	FRNC1D	SS012606LCS05 - rerun
30)	RearSamp	64	P17974	FRNC1D	0601070-07-AFID
31)	Sample	14	P17975	FRNC1D	SS012606LCSD05 - rerun
32)	Pause				
33)	RearSamp	64	P17975A	FRNC1D	0601070-07-AFID
34)	Sample	1	P17975B	FRNC1D	PAH STD
35)	RearSamp	99	P17975C	FRNC1D	DCM-AFID
36)	Sample	9	P17975D	FRNC1D	C1020302A PASS
37)	RearSamp	99	P17975E	FRNC1D	DCM-AFID
38)	Sample	100	P17975F	FRNC1D	0601070-09D-RE ✓
39)	RearSamp	65	P17976	FRNC1D	0601070-08-AFID
40)	Sample	15	P17977	FRNC1D	0601070-01-RE ✓
41)	RearSamp	66	P17978	FRNC1D	0601070-09-AFID
42)	Sample	16	P17979	FRNC1D	0601070-02-RE ✓
43)	RearSamp	67	P17980	FRNC1D	0601070-09D-AFID

✓ run used

PAH10104.M
CW 2/16/06

MS 2/6/06

Last Modified: Fri Feb 03 14:36:34 2006

Sequence Name: C:\MSDChem\1\sequence\S1020301.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	17	P17981	FRNC1D	0601070-05-RE ✓
45)	RearSamp	68	P17982	FRNC1D	0601073-01-AFID
46)	Sample	18	P17983	FRNC1D	C1020303 PASS
47)	RearSamp	69	P17984	FRNC1D	0601073-02-AFID
48)	Sample	19	P17985	FRNC1D	0601070-03 ✓
49)	RearSamp	70	P17986	FRNC1D	0601070-03-AFID
50)	Sample	20	P17987	FRNC1D	0601070-07 ✓
51)	RearSamp	71	P17988	FRNC1D	0601070-04-AFID
52)	Sample	21	P17989	FRNC1D	0601070-08 ✓
53)	RearSamp	72	P17990	FRNC1D	0601070-04D-AFID
54)	Sample	22	P17991	FRNC1D	0601070-09 ✓
55)	RearSamp	73	P17992	FRNC1D	C1020303-AFID
56)	Sample	23	P17993	FRNC1D	0601070-09D ✓
57)	RearSamp	74	P17994	FRNC1D	DCM-AFID
58)	Sample	24	P17995	FRNC1D	C1020304 PASS
59)	RearSamp	75	P17996	FRNC1D	DCM-AFID
60)	Sample	25	P17997	FRNC1D	DCM

✓ run used

MG
2/6/04

Last Modified: Fri Feb 03 14:36:34 2006

Sequence Name: O:\Forensics\Data\PAH1\February06\FEB06.SEC\S1020601.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\FEBRUARY06\FEB06\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

2/8/06

Line					Sample Name/Misc Info
1)	Debug				
2)	DualTwr				
3)	SepGC1				
4)	RearSamp	51	P17982 A	FRNC1D	ALK STD
5)	Sample	1	P17983 A	FRNC1D	PAH STD
6)	RearSamp	52	P17984 A	FRNC1D	C1020601-AFID PASS
7)	Sample	2	P17985 A	FRNC1D	C1020601 PASS
8)	RearSamp	53	P17986 A	FRNC1D	ANS1020601-AFID TS020806AWS01
9)	Sample	3	P17987 A	FRNC1D	ANS1020601
10)	RearSamp	54	P17988 A	FRNC1D	DCM
11)	Sample	4	P17989 A	FRNC1D	QAWHAC14-AFID ✓
12)	RearSamp	55	P17990 A	FRNC1D	DCM IB\02060601
13)	Sample	5	P17991 A	FRNC1D	DCM
14)	Pause				
15)	RearSamp	56	P17992 A	FRNC1D	TS02010106B10-AFID
16)	Sample	6	P17993 A	FRNC1D	SS012606B19 ✓
17)	RearSamp	57	P17994 A	FRNC1D	TS020106LCS03-AFID
18)	Sample	7	P17995 A	FRNC1D	SS012606LCS05 ✓
19)	RearSamp	58	P17996 A	FRNC1D	TS020106LCSD03-AFID
20)	Sample	8	P17997 A	FRNC1D	SS0102606LCSD05 ✓
21)	RearSamp	59	P17998	FRNC1D	0601086-01-AFID
22)	Sample	9	P17999	FRNC1D	C1020602 PASS
23)	RearSamp	60	P18000	FRNC1D	0601086-02-AFID
24)	Sample	10	P18001	FRNC1D	DCM
25)	RearSamp	61	P18002	FRNC1DF	0601086-03-AFID
26)	Sample	11	P18003	FRNC1DF	SFFCO1020601 ✓
27)	RearSamp	62	P18004	FRNC1DF	C1020602-AFID PASS
28)	Sample	9	P18005	FRNC1DF	PAH STD ✓
29)	RearSamp	63	P18006	FRNC1DF	DCM-AFID
30)	Sample	12	P18007	FRNC1DF	TW020606B03 ✓
31)	RearSamp	64	P18008	FRNC1DF	0601086-04-AFID
32)	Sample	13	P18009	FRNC1DF	TW020606LCS03 ✓
33)	RearSamp	65	P18010	FRNC1DF	0601086-05-AFID
34)	Sample	14	P18011	FRNC1DF	TW020606LCSD03 ✓
35)	RearSamp	66	P18012	FRNC1DF	0601086-06-AFID
36)	Sample	15	P18013	FRNC1DF	0602010-01 ✓
37)	RearSamp	67	P18014	FRNC1DF	0601086-07-AFID
38)	Sample	9	P18015	FRNC1DF	PAH STD ✓
39)	RearSamp	68	P18016	FRNC1DF	0601086-08-AFID
40)	Sample	9	P18017	FRNC1DF	
41)	RearSamp	69	P18018	FRNC1DF	0601086-09-AFID
42)	Sample	9	P18019	FRNC1DF	
43)	RearSamp	70	P18020	FRNC1D	0601086-09D-AFID

✓ Run used

PAH #1 Sequence Information

SHC Continuing Calibration: WHAC10 Conc.: 50ug/mL ✓
PAH Continuing Calibration: WHAC13 Conc.: 500ng/mL ✓

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL ✓

FID Process Method: HC11005.M ✓ PAH Process Method: PAH10104.M ✓

2/14/06

Last Modified: Wed Feb 08 11:16:51 2006

Sequence Name: O:\Forensics\Data\PAH1\February06\FEB06.SEC\S1020601.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	9	P18021	FRNC1D	
45)	RearSamp	71	P18022	FRNC1D	C1020603-AFID PASS 2/8/06
46)	Sample	9	P18023	FRNC1D	
[illegible]	RearSamp	72	P18024	FRNC1D	DCM
[illegible]	Sample	9	P18025	FRNC1D	
49)	RearSamp	73	P18026	FRNC1D	SFFCO1020603
50)	Sample	9	P18027	FRNC1D	
51)	RearSamp	74	P18028	FRNC1D	DCM-AFID
52)	Sample	9	P18029	FRNC1D	
53)	RearSamp	75	P18030	FRNC1D	DCM-AFID
54)	Sample	9	P18031	FRNC1D	
55)	RearSamp	76	P18032	FRNC1D	TW020606B03-AFID
56)	Sample	9	P18033	FRNC1D	
57)	RearSamp	77	P18034	FRNC1D	TW020606LCS03-AFID
58)	Sample	9	P18035	FRNC1D	
59)	RearSamp	78	P18036	FRNC1D	TW020606LCSD03-AFID
60)	Sample	9	P18037	FRNC1D	
61)	RearSamp	79	P18038	FRNC1D	0602010-01-AFID
62)	Sample	9	P18039	FRNC1D	
63)	RearSamp	80	P18040	FRNC1D	C1020604-AFID PASS 2/8/06
64)	Sample	9	P18041	FRNC1D	
65)	RearSamp	81	P18042	FRNC1D	DCM-AFID
66)	Sample	9	P18043	FRNC1D	

Sequence Name: C:\MSDChem\1\sequence\S1020801.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\FEBRUARY06\FEB08\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info			
1)	Debug					
2)	DualTwr					
3)	SepGC1					
4)	RearSamp	51	P18044	FRNC1D	ALK STD	
5)	Sample	1	P18045	FRNC1D	PAH STD	
6)	RearSamp	52	P18046	FRNC1D	C1020801-AFID	✗
7)	Sample	2	P18047	FRNC1D	C1020801 PASS	
8)	RearSamp	53	P18048	FRNC1D	ANS1020801-AFID	✗
9)	Sample	3	P18049	FRNC1D	ANS1020801	
10)	RearSamp	54	P18050	FRNC1D	DCM-AFID	✗
11)	Sample	4	P18051	FRNC1D	DCM	
12)	RearSamp	55	P18052	FRNC1D	DCM-AFID	✗
13)	Sample	5	P18053	FRNC1D	DCM	
14)	RearSamp	56	P18054	FRNC1D	DCM-AFID	✗
15)	Sample	6	P18055	FRNC1D	SS020106B11	✓
16)	RearSamp	57	P18056	FRNC1D	SS020106B11-AFID	✗
17)	Sample	7	P18057	FRNC1D	SS020106LCS	✓
18)	RearSamp	58	P18058	FRNC1D	SS020106LCS-AFID	✗
19)	Sample	8	P18059	FRNC1D	SS020106LCSD	✓
20)	RearSamp	59	P18060	FRNC1D	SS020106LCSD-FID	✗
21)	Sample	9	P18061	FRNC1D	0601070-04-RE2	✓
22)	RearSamp	60	P18062	FRNC1D	0601070-04-AFID	✗
23)	Sample	10	P18063	FRNC1D	0601070-06-RE2	✓
24)	RearSamp	61	P18064	FRNC1D	0601070-06-AFID	✗
25)	Sample	11	P18065	FRNC1D	0601070-04-RE	✓
26)	RearSamp	62	P18066	FRNC1D	0602004-01-AFID	✗
27)	Sample	12	P18067	FRNC1D	0601070-06-RE	✓
28)	RearSamp	63	P18068	FRNC1D	0602004-02-AFID	✗
29)	Sample	13	P18069	FRNC1D	C1020802 PASS	
30)	RearSamp	64	P18070	FRNC1D	0602004-03-AFID	✗
31)	Sample	14	P18071	FRNC1D	0602004-04-RE	✓
32)	RearSamp	65	P18072	FRNC1D	C1020802-AFID	✗
33)	Sample	15	P18073	FRNC1D	0602004-04D-RE	✓
34)	RearSamp	66	P18074	FRNC1D	DCM-AFID	✗
35)	Sample	16	P18075	FRNC1D	0602004-03-RE	✓
36)	RearSamp	67	P18076	FRNC1D	SS020606B06-AFID	✗
37)	Sample	17	P18077	FRNC1D	0602004-01-RE	
38)	RearSamp	68	P18078	FRNC1D		
39)	Sample	18	P18079	FRNC1D	0602004-02-RE	✓
40)	RearSamp	69	P18080	FRNC1D		
41)	Sample	19	P18081	FRNC1D	0602004-05-RE	✓
42)	RearSamp	70	P18082	FRNC1D		
43)	Sample	20	P18083	FRNC1D	0602004-06-RE	✓

✓ run used

✗ = instrument contamination for FID re-analyze

PAH #1 Sequence Information

SHC Continuing Calibration: WHAC10 Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: HC11005.M PAH Process Method: PAH10104.M

MG 2/14/06

Sequence Name: C:\MSDChem\1\sequence\S1020801.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	71	P18084	FRNC1D	
45)	Sample	21	P18085	FRNC1D	0602004-07-RE ✓
[illegible]	RearSamp	72	P18086	FRNC1D	
[illegible]	Sample	22	P18087	FRNC1D	0602004-08-RE ✓
48)	RearSamp	73	P18088	FRNC1D	
49)	Sample	23	P18089	FRNC1D	0602004-09-RE ✓
50)	RearSamp	74	P18090	FRNC1D	
51)	Sample	24	P18091	FRNC1D	0602004-9D-RE ✓
52)	RearSamp	75	P18092	FRNC1D	
53)	Sample	25	P18093	FRNC1D	C1020803 PASS
54)	RearSamp	76	P18094	FRNC1D	
55)	Sample	26	P18095	FRNC1D	0602004-10-RE ✓
56)	RearSamp	77	P18096	FRNC1D	
57)	Sample	27	P18097	FRNC1D	0602004-11-RE
58)	RearSamp	77	P18098	FRNC1D	
59)	Sample	28	P18099	FRNC1D	0602004-12-RE ✓
60)	RearSamp	77	P18100	FRNC1D	
61)	Sample	29	P18101	FRNC1D	0602004-13-RE ✓
62)	RearSamp	77	P18102	FRNC1D	
63)	Sample	30	P18103	FRNC1D	0602004-14-RE ✓
64)	RearSamp	77	P18104	FRNC1D	
65)	Sample	31	P18105	FRNC1D	0602004-05-RE ✓
66)	RearSamp	78	P18106	FRNC1D	
67)	Sample	32	P18107	FRNC1D	0602004-02-RE ✓
68)	Pause				
69)	RearSamp	51	P18108	FRNC1D	C1021001-AFID - FID RESTART.
70)	Sample	33	P18109	FRNC1D	C1020804 PASS
71)	RearSamp	52	P18110	FRNC1D	DCM-AFID
72)	Sample	34	P18111	FRNC1D	DCM
73)	RearSamp	53	P18112	FRNC1D	DCM-AFID
74)	Sample	35	P18113	FRNC1D	DCM
75)	RearSamp	54	P18114	FRNC1D	SS020106B11-AFID
[illegible]	Sample	36	P18115	FRNC1D	SS020606B06 ✓
[illegible]	RearSamp	55	P18116	FRNC1D	SS020606B06-AFID
78)	Sample	37	P18117	FRNC1D	SS020606LCS04 - Realuminage ✓
79)	RearSamp	56	P18118	FRNC1D	SS020106LCS04-AFID Dont use run used
80)	Sample	38	P18119	FRNC1D	SS020606LCSD05 ✓.
81)	RearSamp	57	P18120	FRNC1D	SS020106LCSD04
82)	Sample	39	P18121	FRNC1D	0602004-01 ✓
83)	RearSamp	58	P18122	FRNC1D	SS020606LCS04-AFID
84)	Sample	40	P18123	FRNC1D	0602004-03 ✓
85)	RearSamp	59	P18124	FRNC1D	SS020606LCSD05-AFID
86)	Sample	41	P18125	FRNC1D	0602004-04 ✓
87)	RearSamp	60	P18126	FRNC1D	C1021002-AFID
88)	Sample	42	P18127	FRNC1D	0602004-04D ✓
89)	RearSamp	61	P18128	FRNC1D	DCM-AFID
90)	Sample	43	P18129	FRNC1D	0602004-06 ✓
91)	RearSamp	62	P18130	FRNC1D	0601070-04-AFID
92)	Sample	44	P18131	FRNC1D	0602004-07 ✓
93)	RearSamp	63	P18132	FRNC1D	0601070-06-AFID
94)	Sample	45	P18133	FRNC1D	0602004-08 ✓
95)	RearSamp	64	P18134	FRNC1D	0602004-01-AFID
96)	Sample	46	P18135	FRNC1D	- C1020805 PASS ~~AFT C.Z~~

MS 2/14/06

Sequence Name: C:\MSDChem\1\sequence\S1020801.S

	Line Type	Vial	DataFile	Method	Sample Name
97)	RearSamp	65	P18136	FRNC1D	0602004-02-AFID
98)	Sample	47	P18137	FRNC1D	DCM
[illegible])	RearSamp	66	P18138	FRNC1D	0602004-03-AFID
1[illegible])	Sample	48	P18139	FRNC1D	0602004-09 ✓
101)	RearSamp	67	P18140	FRNC1D	0602004-04-AFID
102)	Sample	49	P18141	FRNC1D	0602004-09D ✓
103)	RearSamp	68	P18142	FRNC1D	0602004-04D-AFID
104)	Sample	50	P18143	FRNC1D	0602004-10 ✓
105)	RearSamp	69	P18144	FRNC1D	0602004-05-AFID
106)	Sample	1	P18145	FRNC1D	0602004-11 ✓
107)	RearSamp	70	P18146	FRNC1D	0602004-06-AFID
108)	Sample	2	P18147	FRNC1D	0602004-12 ✓
109)	RearSamp	71	P18148	FRNC1D	C1021003-AFID
110)	Sample	3	P18149	FRNC1D	0602004-13 ✓
111)	RearSamp	72	P18150	FRNC1D	DCM-AFID
112)	Sample	4	P18151	FRNC1D	0602004-14 ✓
113)	RearSamp	73	P18152	FRNC1D	0602004-07-AFID
114)	Sample	5	P18153	FRNC1D	C1020806 PASS
115)	RearSamp	74	P18154	FRNC1D	0602004-08-AFID
116)	Sample	6	P18155	FRNC1D	DCM
117)	RearSamp	75	P18156	FRNC1D	0602004-09-AFID
118)	Sample	6	P18157	FRNC1D	
119)	RearSamp	76	P18158	FRNC1D	0602004-09D-AFID
120)	Sample	5	P18159	FRNC1D	
121)	RearSamp	77	P18160	FRNC1D	0602004-10-AFID
122)	Sample	6	P18161	FRNC1D	
123)	RearSamp	78	P18162	FRNC1D	0602004-11-AFID
124)	Sample	5	P18163	FRNC1D	
125)	RearSamp	79	P18164	FRNC1D	0602004-12-AFID
126)	Sample	6	P18165	FRNC1D	
127)	RearSamp	80	P18166	FRNC1D	0602004-13-AFID
128)	Sample	5	P18167	FRNC1D	
1[illegible])	RearSamp	81	P18168	FRNC1D	0602004-14-AFID
1[illegible])	Sample	6	P18169	FRNC1D	
131)	RearSamp	82	P18170	FRNC1D	C1021004-AFID
132)	Sample	5	P18171	FRNC1D	
133)	RearSamp	83	P18172	FRNC1D	DCM
134)	Sample	6	P18173	FRNC1D	
135)	RearSamp	84	P18174	FRNC1DF	BAF D12
136)	Sample	7	P18175	FRNC1DF	0602024-01

✓ run used

MG 2/14/06

Last Modified: Fri Feb 10 16:37:18 2006

Sequence Name: C:\MSDChem\1\sequence\S1021301.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\FEBRUARY06\FEB13\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

2/15/06

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line					Sample Name/Misc Info
1)	Debug				
2)	DualTwr				
3)	SepGC1				
4)	RearSamp	51	P18176	FRNC1D	ALK STD
5)	Sample	1	P18177	FRNC1D	PAH STD
6)	RearSamp	52	P18178	FRNC1D	C1021301-AFID
7)	Sample	2	P18179	FRNC1D	C1021301 PASS
8)	RearSamp	53	P18180	FRNC1D	ANS1021301-AFID
9)	Sample	3	P18181	FRNC1D	ANS1021301
10)	RearSamp	54	P18182	FRNC1D	DCM-AFID
11)	Sample	4	P18183	FRNC1D	DCM
12)	RearSamp	55	P18184	FRNC1D	DCM-AFID
13)	Sample	5	P18185	FRNC1D	SS020606LCS04 ✓
14)	RearSamp	56	P18186	FRNC1D	SS020606LCS04-AFID
15)	Sample	6	P18187	FRNC1D	C1021302 not needed
16)	RearSamp	57	P18188	FRNC1D	C1021302-AFID
17)	Sample	7	P18189	FRNC1D	0602017-01 ✓
18)	RearSamp	58	P18190	FRNC1D	DCM-AFID
19)	Sample	8	P18191	FRNC1D	0602017-01D ✓
20)	RearSamp	59	P18192	FRNC1D	ALUMINA CHECK-AFID
21)	Sample	9	P18193	FRNC1D	0602017-02 ✓
22)	RearSamp	60	P18194	FRNC1D	SO020906B23-AFID
23)	Sample	10	P18195	FRNC1D	C1021303 PASS
24)	RearSamp	61	P18196	FRNC1D	SO020906LCS17-AFID
25)	Sample	11	P18197	FRNC1D	DCM
26)	RearSamp	62	P18198	FRNC1D	SO020906LCS15-AFID
27)	Sample	25	P18199	FRNC1D	DCM
28)	Pause				
29)	RearSamp	63	P18200	FRNC1D	0602017-01-AFID
30)	Sample	12	P18201	FRNC1D	SO020906B23 ✓
31)	Pause				
32)	RearSamp	64	P18202	FRNC1D	DCM
33)	Sample	13	P18203	FRNC1D	0602017-01-RE see rerun
34)	Pause				
35)	RearSamp	64	P18203A	FRNC1D	DCM
36)	Sample	13	P18203B	FRNC1D	0602017-01-RE
37)	RearSamp	65	P18204	FRNC1D	DCM
38)	Sample	14	P18205	FRNC1D	0602017-01D-RE ✓
39)	RearSamp	66	P18206	FRNC1D	DCM
40)	Sample	15	P18207	FRNC1D	0602017-02-RE ✓
41)	RearSamp	67	P18208	FRNC1D	DCM-AFID
42)	Sample	16	P18209	FRNC1D	SO020906LCS17 ✓
43)	RearSamp	68	P18210	FRNC1D	DCM-AFID

✓ run used

MG 2/15/06

PAH #1 Sequence Information

SHC Continuing Calibration: WHAC10 ✓ Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 ✓ Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 ✓ Conc.: 5.096mg/mL

FID Process Method: HC11005.M ✓ PAH Process Method: PAH10104.M ✓

Last Modified: Tue Feb 14 13:58:12 2006

Sequence Name: C:\MSDChem\1\sequence\S3012601.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\JANUARY06\JAN26\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	1	P34869	FRBIO3B	C3012601 PASS
2)	Sample	2	P34870	FRBIO3B	DCM
3)	Sample	3	P34871	FRBIO3B	SS011906B04 ✓
4)	Sample	4	P34872	FRBIO3B	0512128-01
5)	Sample	5	P34873	FRBIO3B	0512128-02 ✓
6)	Sample	6	P34874	FRBIO3B	0512128-03 ✓
7)	Sample	7	P34875	FRBIO3B	0512128-03D ✓
8)	Sample	8	P34876	FRBIO3B	0512128-04 ✓
9)	Sample	9	P34877	FRBIO3B	C3012602 PASS
10)	Sample	10	P34878	FRBIO3B	DCM
11)	Sample	11	P34879	FRBIO3B	SS011906B05 ✓
12)	Sample	12	P34880	FRBIO3B	0601045-01 ✓
13)	Sample	13	P34881	FRBIO3B	0601045-02 ✓
14)	Sample	14	P34882	FRBIO3B	0601045-03 ✓
15)	Sample	15	P34883	FRBIO3B	0601045-04 ✓
16)	Sample	16	P34884	FRBIO3B	0601045-05 ✓
17)	Sample	17	P34885	FRBIO3B	0601045-06 ✓
18)	Sample	18	P34886	FRBIO3B	0601045-07 ✓
[illegible]	Sample	19	P34887	FRBIO3B	0601045-08 ✓
[illegible]	Sample	20	P34888	FRBIO3B	0601045-08D ✓
21)	Sample	21	P34889	FRBIO3B	C3012603 PASS
22)	Sample	22	P34890	FRBIO3B	0601050-01 ✓
23)	Sample	23	P34891	FRBIO3B	0601050-02 ✓
24)	Sample	24	P34892	FRBIO3B	0601050-03 ✓
25)	Sample	25	P34893	FRBIO3B	0601050-04 ✓
26)	Sample	26	P34894	FRBIO3B	0601050-05 ✓
27)	Sample	27	P34895	FRBIO3B	0601050-06 ✓
28)	Sample	28	P34896	FRBIO3B	0601050-06D ✓
29)	Sample	29	P34897	FRBIO3B	C3012604 PASS
30)	Sample	30	P34898	FRBIO3B	C3012605 PASS
31)	Sample	31	P34899	FRBIO3B	0512128-01
32)	Sample	32	P34900	FRBIO3B	C3012606 PASS
33)	Sample	33	P34901	FRBIO3B	C3012607 PASS
34)	Sample	34	P34902	FRBIO3B	0512128-01
35)	Sample	35	P34903	FRBIO3B	C3012608 PASS
36)	Sample	36	P34904	FRBIO3B	C3012609 PASS
37)	Sample	37	P34905	FRBIO3B	0512128-01 ✓
38)	Sample	38	P34906	FRBIO3B	C3012610 PASS
39)	Sample	1	P34907	FRBIO3B	DCM
40)	Sample	2	P34908	FRBIO3B	SS012506B01 ✓
41)	Sample	3	P34909	FRBIO3B	0601064-01 ✓
42)	Sample	4	P34910	FRBIO3B	0601064-02 ✓
43)	Sample	5	P34911	FRBIO3B	0601064-03 ✓

✓ Run used

PAH #3 Sequence Information

MS 2/3/06

SHC Continuing Calibration: WHAC10 Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: HC31213.M PAH Process Method: ~~PAH31110.M~~

B10301111.M MS 1/6/06

Last Modified: Mon Jan 23 05:56:53 2006

Sequence Name: C:\MSDChem\1\sequence\S3012601.S

	Line Type	Vial	DataFile	Method	Sample Name	
44)	Sample	6	P34912	FRBIO3B	0601064-04 ✓	
45)	Sample	7	P34913	FRBIO3B	0601064-05 ✓	
46)	Sample	8	P34914	FRBIO3B	0601064-05D ✓	
)	Sample	9	P34915	FRBIO3B	0601064-06 ✓	
)	Sample	10	P34916	FRBIO3B	0601064-07 ✓	
49)	Sample	11	P34917	FRBIO3B	C3012611 PASS	
50)	Sample	12	P34918	FRBIO3B	0601064-08 ✓	
51)	Sample	13	P34919	FRBIO3B	0601064-09 ✓	
52)	Sample	14	P34920	FRBIO3B	0601064-10 ✓	
53)	Sample	15	P34921	FRBIO3B	0601064-11 ✓	
54)	Sample	16	P34922	FRBIO3B	C3012612 PASS	
55)	Sample	17	P34923	FRBIO3B	dcm	
56)	Sample	18	P34924	FRBIO3B	SS012606B19 ✓	
57)	Sample	19	P34925	FRBIO3B	0601070-01 ✓	
58)	Sample	20	P34926	FRBIO3B	0601070-02 ✓	
59)	Sample	21	P34927	FRBIO3B	0601070-03 ✓	
60)	Sample	22	P34928	FRBIO3B	0601070-04 —	Re-Ext } MS 2/16/06 notified
61)	Sample	23	P34929	FRBIO3B	0601070-05 ✓	
62)	Sample	24	P34930	FRBIO3B	0601070-06 —	Re-Ext
63)	Sample	25	P34931	FRBIO3B	0601070-07 ✓	
64)	Sample	26	P34932	FRBIO3B	0601070-08 ✓	
65)	Sample	27	P34933	FRBIO3B	0601070-09 ✓	
66)	Sample	28	P34934	FRBIO3B	0601070-09D ✓	
67)	Sample	29	P34935	FRBIO3B	C3012613 PASS	
68)	Sample	30	P34936	FRBIO3B	dcm	
69)	Sample	31	P34937	FRBIO3B	SS013006B05	
70)	Sample	32	P34938	FRBIO3B	0601073-01	
71)	Sample	33	P34939	FRBIO3B	0601073-02	
72)	Sample	34	P34940	FRBIO3B	0601073-03	
73)	Sample	35	P34941	FRBIO3B	0601073-04	
74)	Sample	36	P34942	FRBIO3B	0601073-04D	
75)	Sample	37	P34943	FRBIO3B	C3012614 PASS	

)

MS
2/3/06

Sequence Name: C:\MSDChem\1\sequence\S2020901.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\FEBRUARY06\FEB09\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	1	P28188	FRBIO2B	DCM
2)	Sample	2	P28189	FRBIO2B	I2020901
3)	Sample	3	P28190	FRBIO2B	I2020902
4)	Sample	4	P28191	FRBIO2B	I2020903 -*- c2020900 PASS
5)	Sample	5	P28192	FRBIO2B	I2020904
6)	Sample	6	P28193	FRBIO2B	I2020905
7)	Sample	7	P28194	FRBIO2B	I2020906
8)	Sample	8	P28195	FRBIO2B	ANS2020901
9)	Sample	9	P28196	FRBIO2B	DCM
10)	Sample	10	P28197	FRBIO2B	TS020106B10 ✓
11)	Sample	11	P28198	FRBIO2B	0601086-01 ✓
12)	Sample	12	P28199	FRBIO2B	0601086-02 ✓
13)	Sample	13	P28200	FRBIO2B	0601086-03 ✓
14)	Sample	14	P28201	FRBIO2B	0601086-04 ✓
15)	Sample	99	P28201A	FRBIO2B	DCM
16)	Sample	100	P28201B	FRBIO2B	ANS2020902 *
17)	Sample	15	P28202	FRBIO2B	0601086-05 ✓
18)	Pause				
19)	Sample	16	P28203	FRBIO2B	0601086-06 ✓
20)	Pause				
21)	Sample	17	P28204	FRBIO2B	0601086-07 ✓
22)	Sample	18	P28205	FRBIO2B	0601086-08 ✓
23)	Sample	19	P28206	FRBIO2B	0601086-09 ✓
24)	Sample	20	P28207	FRBIO2B	0601086-09D ✓
25)	Sample	21	P28208	FRBIO2B	C2021001 PASS
26)	Sample	22	P28209	FRBIO2B	DCM
27)	Sample	23	P28210	FRBIO2B	DCM
28)	Sample	24	P28211	FRBIO2B	SS020606B06 ✓
29)	Sample	25	P28212	FRBIO2B	SS020106B11 ✓
30)	Sample	26	P28213	FRBIO2B	0601070-04 ✓
31)	Sample	27	P28214	FRBIO2B	0601070-06 ✓
32)	Sample	28	P28215	FRBIO2B	0602004-01 ✓
33)	Sample	29	P28216	FRBIO2B	0602004-02 ✓
34)	Sample	30	P28217	FRBIO2B	0602004-03 ✓
35)	Sample	31	P28218	FRBIO2B	0602004-04 ✓
36)	Sample	32	P28219	FRBIO2B	C2021002 PASS
37)	Sample	33	P28220	FRBIO2B	DCM
38)	Sample	34	P28221	FRBIO2B	0602004-04D ✓
39)	Sample	35	P28222	FRBIO2B	0602004-05 ✓
40)	Sample	36	P28223	FRBIO2B	0602004-06 ✓
41)	Sample	37	P28224	FRBIO2B	0602004-07 ✓
42)	Sample	38	P28225	FRBIO2B	0602004-08 ✓
43)	Sample	39	P28226	FRBIO2B	0602004-09 ✓

* ICAL B1020209.M

✓ Run used

PAH #2 Sequence Information

SHC Continuing Calibration: ~~WHAC10~~ ✓ Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 ✓ Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 ✓ Conc.: 5.096mg/mL

FID Process Method: ~~HG2090~~1.M PAH Process Method: ~~PAH20113~~.M
B1020209.M.

MG 2/13/06

Last Modified: Fri Feb 10 15:08:42 2006

Sequence Name: C:\MSDChem\1\sequence\S2020901.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	40	P28227	FRBIO2B	0602004-09D ✓
45)	Sample	41	P28228	FRBIO2B	C2021003 PASS
46)	Sample	42	P28229	FRBIO2B	DCM
47)	Sample	43	P28230	FRBIO2B	0602004-10 ✓
48)	Sample	44	P28231	FRBIO2B	0602004-11 ✓
49)	Sample	45	P28232	FRBIO2B	0602004-12 ✓
50)	Sample	46	P28233	FRBIO2B	0602004-13 ✓
51)	Sample	47	P28234	FRBIO2B	0602004-14 ✓
52)	Sample	48	P28235	FRBIO2B	C2021004 PASS
53)	Sample	49	P28236	FRBIO2B	DCM

✓ Run used

MS 2/13/06

Supporting Quality Control Results

Form IV
Method Blank Summary
Alkylated Polynuclear Aromatic Hydrocarbons

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606B19**
Date Analyzed: **02/06/06 17:48**

Client ID	Lab ID	Date/Time Analyzed
GC-SED-46C (5-5.5)	0601070-01	02/02/06 22:23
GC-SED-45C (1-1.5)	0601070-02	02/02/06 23:57
GC-SED-55 (1.5-2.5)	0601070-03E	02/03/06 01:31
GC-SED-49 (10-11)	0601070-05	02/03/06 04:38
GC-SED-78B (2.5-5)	0601070-07E	02/03/06 07:46
GC-SED-46C (5-5.5)	0601070-01E	02/04/06 17:21
GC-SED-45C (1-1.5)	0601070-02E	02/04/06 18:55
GC-SED-49 (10-11)	0601070-05E	02/04/06 20:30
GC-SED-55 (1.5-2.5)	0601070-03	02/04/06 23:39
GC-SED-78B (2.5-5)	0601070-07	02/05/06 01:14
GC-SED-76C (2.5-3.4)	0601070-08	02/05/06 02:49
GC-SED-75C (0-0.7)	0601070-09	02/05/06 04:24
GC-SED-75C (0-0.7)	0601070-09 D	02/05/06 05:59
LCS	SS012606LCS05	02/06/06 19:22
LCSD	SS012606LCSD05	02/06/06 20:56

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form IV
Method Blank Summary
Alkylated Polynuclear Aromatic Hydrocarbons

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606B06**
Date Analyzed: **02/10/06 21:59**

Client ID	Lab ID	Date/Time Analyzed
GC-SED-47 (1.5-2.5)	0601070-04E	02/09/06 03:45
GC-SED-48 (5-5.8)	0601070-06E	02/09/06 05:16
GC-SED-47 (1.5-2.5)	0601070-04	02/09/06 06:49
GC-SED-48 (5-5.8)	0601070-06	02/09/06 08:22
LCSD	SS020606LCSD05	02/11/06 01:07
LCS	SS020606LCS04	02/13/06 21:37

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form IV
Method Blank Summary
Steranes and Triterpanes

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606B19**
Date Analyzed: **02/01/06 19:55**

Client ID	Lab ID	Date/Time Analyzed
GC-SED-46C (5-5.5)	0601070-01	02/01/06 21:27
GC-SED-45C (1-1.5)	0601070-02	02/01/06 22:58
GC-SED-55 (1.5-2.5)	0601070-03	02/02/06 00:29
GC-SED-49 (10-11)	0601070-05	02/02/06 03:30
GC-SED-78B (2.5-5)	0601070-07	02/02/06 06:32
GC-SED-76C (2.5-3.4)	0601070-08	02/02/06 08:03
GC-SED-75C (0-0.7)	0601070-09	02/02/06 09:34
GC-SED-75C (0-0.7)	0601070-09 D	02/02/06 11:06

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form IV
Method Blank Summary
Steranes and Triterpanes

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606B06**
Date Analyzed: **02/11/06 04:00**

Client ID	Lab ID	Date/Time Analyzed
GC-SED-47 (1.5-2.5)	0601070-04	02/11/06 07:10
GC-SED-48 (5-5.8)	0601070-06	02/11/06 08:44

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Sequence Name: C:\MSDCHEM\1\SEQUENCE\S1010401.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\JANUARY06\JAN04\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line					Sample Name/Misc Info
1)	DualTwr				
2)	SepGC1				
3)	RearSamp	51	P17268A	FRNC1D	DCM
4)	Sample	1	P17268	FRNC1D	PAH STD
5)	RearSamp	52	P17269	FRNC1D	DCM2
6)	Sample	2	P17270	FRNC1D	DCM
7)	RearSamp	53	P17271	FRNC1D	
8)	Sample	3	P17272	FRNC1D	DCM
9)	RearSamp	54	P17273	FRNC1D	DCM4 * KAL.
10)	Sample	4	P17274	FRNC1D	I1010401*
11)	RearSamp	55	P17275	FRNC1D	C1010401-AFID PASS
12)	Sample	5	P17276	FRNC1D	I1010402 *
13)	RearSamp	56	P17277	FRNC1D	ANS1010401 TS010506AW502
14)	Sample	6	P17278	FRNC1D	I1010403 *
15)	RearSamp	57	P17279	FRNC1D	DCM IB10104060I
16)	Sample	7	P17280	FRNC1D	I1010404*
17)	RearSamp	58	P17281	FRNC1D	Alumina check1
18)	Sample	8	P17282	FRNC1D	I1010405*
19)	RearSamp	59	P17283	FRNC1D	Alumina Check2
	Sample	9	P17284	FRNC1D	I1010406*
21)	RearSamp	60	P17285	FRNC1D	SS122105B10
22)	Sample	10	P17286	FRNC1D	I1010407*
23)	RearSamp	61	P17287	FRNC1D	SS122105LCS07
24)	Sample	11	P17288	FRNC1D	DCM
25)	RearSamp	62	P17289	FRNC1D	SS122105LCSD07
26)	Sample	12	P17290	FRNC1D	Q1010401
27)	RearSamp	63	P17291	FRNC1D	0512101-01-AFID
28)	Sample	13	P17292	FRNC1D	ANS1010401
29)	RearSamp	64	P17293	FRNC1D	0512101-02-AFID - sequence stopped. FID to cont on S1010502
30)	Sample	12	P17294	FRNC1D	Q1010402
31)	RearSamp	65	P17295	FRNC1D	C1010402-AFID
32)	Sample	14	P17296	FRNC1D	SSFS1010401
33)	RearSamp	66	P17297	FRNC1D	DCM-AFID
34)	Sample	16	P17298	FRNC1D	C1010401
35)	RearSamp	67	P17299	FRNC1D	DCM-AFID
36)	Sample	17	P17300	FRNC1D	BaF RT check

PAH #1 Sequence Information

SHC Continuing Calibration: WHAC10 Conc.: 50ug/mL
PAH Continuing Calibration: WHAB52 Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: HC11005.M PAH Process Method: ~~PAH121701.M~~ PAH10104.M

PAH Calibration IDs

PAH Calibration Level 1: WHAB60 Conc.: 10ng/mL
PAH Calibration Level 2: WHAB59 Conc.: 25ng/mL
PAH Calibration Level 3: WHAB58 Conc.: 100ng/mL
PAH Calibration Level 4 (CC): ~~WHAC12~~ WHAB50 Conc.: 500ng/mL
PAH Calibration Level 5: WHAB55 Conc.: 1250ng/mL
PAH Calibration Level 6: WHAB54 Conc.: 5000ng/mL
PAH Calibration Level 7: WHAB53 Conc.: 10000ng/mL
PAH Independent Check Verification: WHAB69 Conc. 500ng/mL

Crude Oil IDs

Alaska North Slope: WHAB79 Conc.: 5.096mg/mL
Largo Agrio Norte: WHAB41 Conc.: 6.15mg/mL
Shushufindi South West: WHAB42 Conc.: 6.25mg/mL
Shushufindi Central: WHAC08 Conc.: 5.48mg/mL
Sasha Central: WHAB46 Conc.: 5.38mg/mL
Shushufindi North: WHAB47 Conc.: 5.74mg/mL
Shushufindi South: WHAB48 Conc.: 5.00mg/mL
Aguarico: WHAC02 Conc.: 6.02mg/mL
Sasha North 2 WHAC09 Conc.: 5.54mg/mL

La

Sequence Name: C:\MSDChem\1\sequence\S1010501.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\JANUARY06\JAN05\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

FID Dirty Not Used

Line					Sample Name/Misc Info
1)	DualTwr				
2)	SepGC1				
3)	RearSamp	65	P17301	FRNC1D	C1010402-AFID
4)	Sample	1	P17302	FRNC1D	PAH TEST
5)	RearSamp	66	P17303	FRNC1D	DCM-AFID
6)	Sample	2	P17304	FRNC1D	C1010501 PASS
7)	RearSamp	67	P17305	FRNC1D	DCM-AFID
8)	Sample	3	P17306	FRNC1D	ANS1010501
9)	Pause				
10)	RearSamp	68	P17307	FRNC1D	DCM-AFID
11)	Sample	4	P17308	FRNC1D	~~ANS1010501~~ SS011106 AWS02
12)	RearSamp	69	P17309	FRNC1D	DCM-AFID
13)	Sample	5	P17310	FRNC1D	BaF rt CHECK CN 1/11/06
14)	RearSamp	70	P17311	FRNC1D	DCM-AFID
15)	Sample	6	P17312	FRNC1D	C1010502 PASS.
16)	RearSamp	71	P17313	FRNC1D	DCM-AFID
17)	Sample	7	P17314	FRNC1D	DCM
18)	RearSamp	72	P17315	FRNC1D	DCM
19)	Sample	8	P17316	FRNC1D	ST122805B04 ✓
20)	RearSamp	73	P17317	FRNC1D	DCM
21)	Sample	9	P17318	FRNC1D	SS122805B03 ✓ ✓ run used
22)	RearSamp	74	P17319	FRNC1D	DCM
23)	Sample	10	P17320	FRNC1D	SW122805B02 ✓
24)	RearSamp	75	P17321	FRNC1D	DCM
25)	Sample	11	P17322	FRNC1D	ST122805LCS04 ✓
26)	RearSamp	76	P17323	FRNC1D	DCM
27)	Sample	12	P17324	FRNC1D	ST122805LCSD04 ✓
28)	RearSamp	77	P17325	FRNC1D	DCM
29)	Sample	13	P17326	FRNC1D	SS122805LCS03 ✓
30)	RearSamp	78	P17327	FRNC1D	DCM
31)	Sample	14	P17328	FRNC1D	SS122805LCSD03 ✓
32)	RearSamp	79	P17329	FRNC1D	0511156-02-AFID
33)	Sample	15	P17330	FRNC1D	SW122805LCS02 ✓
34)	RearSamp	80	P17331	FRNC1D	0511156-03-AFID
35)	Sample	16	P17332	FRNC1D	SW122805LCSD02 ✓
36)	RearSamp	81	P17333	FRNC1D	DCM
37)	Sample	17	P17334	FRNC1D	C1010503 PASS
38)	Pause				
39)	RearSamp	82	P17335	FRNC1D	
40)	Sample	18	P17336	FRNC1D	DCM
41)	RearSamp	83	P17337	FRNC1D	
42)	Sample	19	P17338	FRNC1D	0512118-01 ✓
43)	RearSamp	84	P17339	FRNC1D	

MS 1-9-06

PAH #1 Sequence Information

SHC Continuing Calibration: ~~WHAC10~~ Conc.: 50ug/mL
PAH Continuing Calibration: ~~WHAB52~~ WHAB56 Conc.: 500ng/mL
Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: ~~HC11005.M~~ PAH Process Method: ~~PAH21701.M~~ ✓
NEW ICAL PAH10104.M

Last Modified: Thu Jan 05 12:06:45 2006

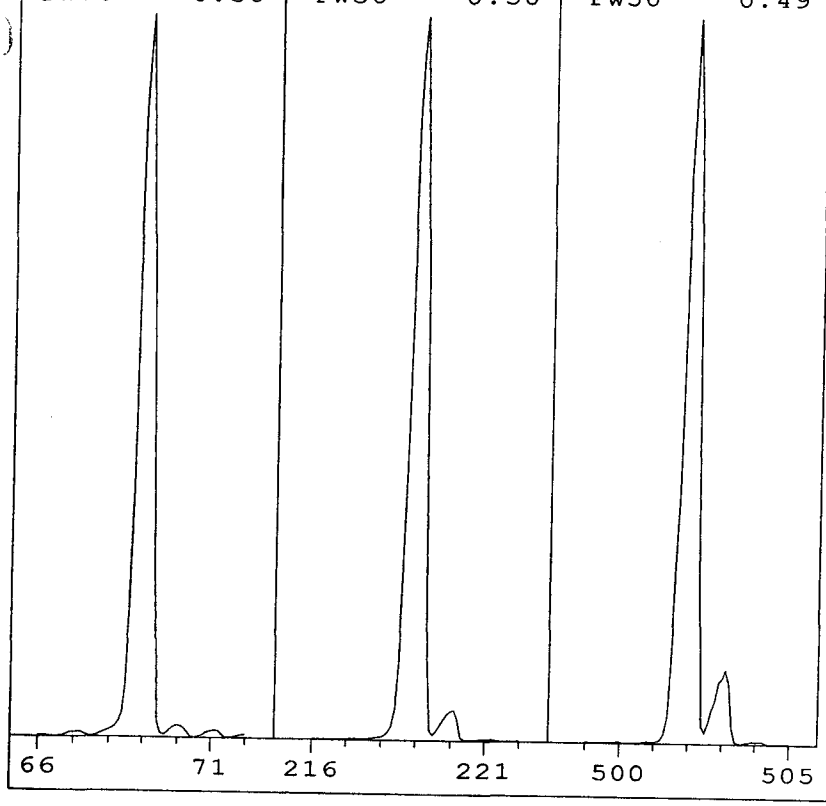
5973 Tune

Wed Jan 04 09:47:59 2006
C:\MSDCHEM\1\5973N\PBTBA.U

1/4/06

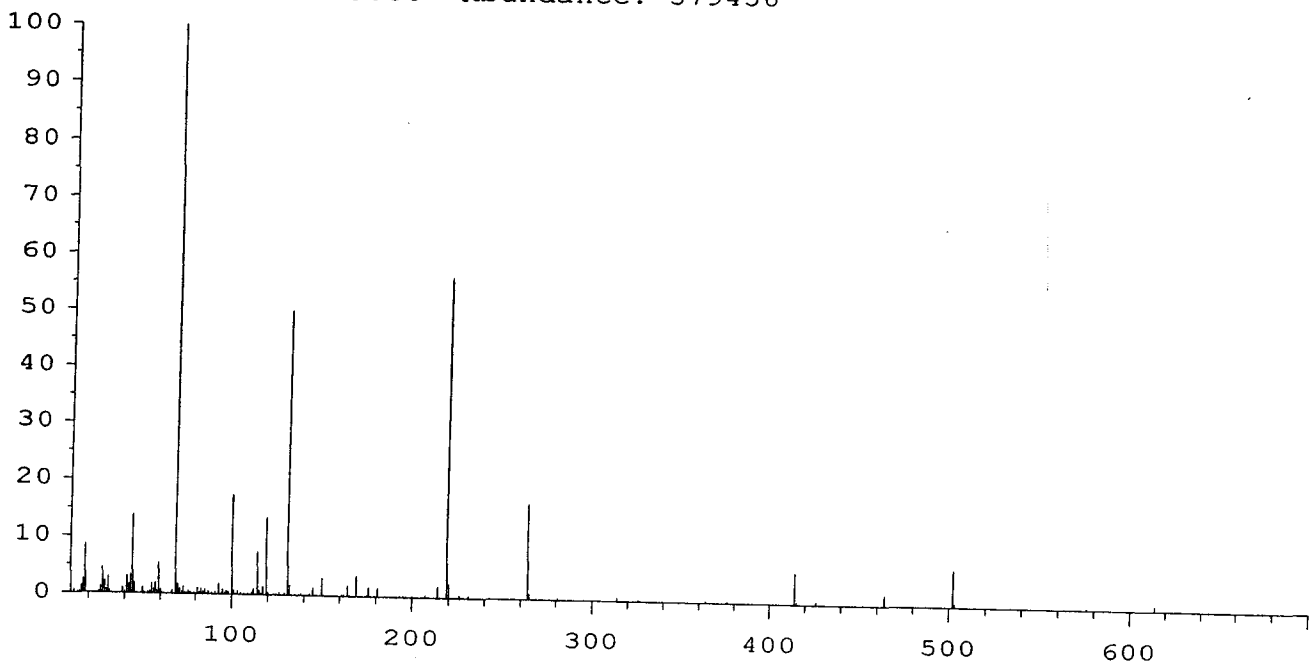
Instrument: PAH-1

Mass	69.10	Mass	219.10	Mass	502.10
Ab	440529	Ab	250956	Ab	28818
Pw50	0.50	Pw50	0.50	Pw50	0.49



Ion Pol	POS	MassGain	-24
		MassOffs	-11
Emission	34.6	AmuGain	1938
ElEnrgy	69.9	AmuOffs	134
Filament	2	Wid219	-0.019
		DC Pol	NEG
Repeller	34.81		
IonFcus	90.2	HEDEnab	ON
EntLens	0.0	EMVolts	1329
EntOffs	VAR		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	Foreline	38
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
269 peaks Base: 69.00 Abundance: 379456



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	379456	100.00	70.00	6407	1.69
219.00	213632	56.30	220.00	9423	4.41
502.00	24432	6.44	503.00	2466	10.09

TARGET MASS:	50	69	131	219	414	502
DYNAMIC ENT OFFSET:	12.3	15.6	18.6	20.3	21.3	26.1
TARGET ABUND(%):	1.0	100.0	50.0	55.0	5.0	6.0
ACTUAL TUNE ABUND(%):	1.0	100.0	50.0	56.3	5.5	6.4

Response Factor Report PAH-1

Method Path : O:\FORENSICS\METHODS\PAH1\JAN2006\
Method File : PAH10104.M
Title : Decalins & Alkylated PAH's
Last Update : Thu Jan 05 07:03:26 2006
Response Via : Initial Calibration

Calibration Files
10 =P17274.D 25 =P17276.D 100 =P17278.D 10000= P17286 CMS 1-5-06
500 =P17280.D 1250=P17282.D 5000=P17284.D

		Compound	10	25	100	500	1250	5000	Avg	%RSD
1)	i	Acenaphthene-d10	----------	----------	----------	ISTD	----------	----------	----------	
2)	t	Decalin	0.394	0.436	0.404	0.368	0.384	0.383	0.391	5.89
3)	A1	trans-Decalin	0.439	0.445	0.426	0.419	0.435	0.437	0.432	2.21
4)	t	cis-Decalin	0.320	0.334	0.329	0.316	0.328	0.329	0.325	2.09
5)	A2	C1-Decalins	0.439	0.445	0.426	0.419	0.435	0.437	0.432	2.21
6)	A2	C2-Decalins	0.439	0.445	0.426	0.419	0.435	0.437	0.432	2.21
7)	A2	C3-Decalins	0.439	0.445	0.426	0.419	0.435	0.437	0.432	2.21
8)	A2	C4-Decalins	0.439	0.445	0.426	0.419	0.435	0.437	0.432	2.21
9)	A1	Naphthalene	2.554	2.513	2.487	2.542	2.610	2.609	2.553	1.78
10)	A2	C1-Naphthalenes	2.554	2.513	2.487	2.542	2.610	2.609	2.553	1.78
11)	A2	C2-Naphthalenes	2.554	2.513	2.487	2.542	2.610	2.609	2.553	1.78
12)	A2	C3-Naphthalenes	2.554	2.513	2.487	2.542	2.610	2.609	2.553	1.78
13)	A2	C4-Naphthalenes	2.554	2.513	2.487	2.542	2.610	2.609	2.553	1.78
14)	s	2-Methylnaphthale	1.059	1.069	1.027	1.052	1.079	1.131	1.072	3.04
15)	t	2-Methylnaphthale	1.555	1.565	1.565	1.597	1.660	1.705	1.617	3.74
16)	t	1-Methylnaphthale	1.466	1.472	1.482	1.502	1.571	1.589	1.522	3.47
17)	A1	Benzothiophene	2.264	2.277	2.228	2.262	2.314	2.325	2.278	1.45
18)	A2	C1-Benzo(b)thioph	2.264	2.277	2.228	2.262	2.314	2.325	2.278	1.45
19)	A2	C2-Benzo(b)thioph	2.264	2.277	2.228	2.262	2.314	2.325	2.278	1.45
20)	A2	C3-Benzo(b)thioph	2.264	2.277	2.228	2.262	2.314	2.325	2.278	1.45
21)	A2	C4-Benzo(b)thioph	2.264	2.277	2.228	2.262	2.314	2.325	2.278	1.45
22)	t	Biphenyl	1.999	1.972	1.960	1.982	2.040	2.071	2.010	2.11
23)	t	2,6-Dimethylnapht	1.279	1.294	1.276	1.316	1.381	1.420	1.342	4.89
24)	t	Dibenzofuran	2.190	2.184	2.184	2.223	2.325	2.355	2.258	3.53
25)	t	Acenaphthylene	2.300	2.313	2.253	2.408	2.539	2.661	2.448	7.07
26)	t	Acenaphthene	1.501	1.451	1.440	1.491	1.555	1.605	1.521	4.45
27)	t	2,3,5-Trimethylna	1.204	1.129	1.104	1.165	1.234	1.290	1.204	6.39
28)	A1	Fluorene	1.685	1.596	1.590	1.657	1.758	1.828	1.706	5.89
29)	A2	C1-Fluorenes	1.685	1.596	1.590	1.657	1.758	1.828	1.706	5.89
30)	A2	C2-Fluorenes	1.685	1.596	1.590	1.657	1.758	1.828	1.706	5.89
31)	A2	C3-Fluorenes	1.685	1.596	1.590	1.657	1.758	1.828	1.706	5.89
32)	A1	Dibenzothiophene	2.446	2.431	2.387	2.462	2.568	2.649	2.515	4.41
33)	A2	4-Methyldibenzoth	2.446	2.431	2.387	2.462	2.568	2.649	2.515	4.41
34)	A2	2/3-Methyldibenzo	2.446	2.431	2.387	2.462	2.568	2.649	2.515	4.41
35)	A2	1-Methyldibenzoth	2.446	2.431	2.387	2.462	2.568	2.649	2.515	4.41
36)	A2	OTP	2.446	2.431	2.387	2.462	2.568	2.649	2.515	4.41
37)	A2	C1-Dibenzothiophe	2.446	2.431	2.387	2.462	2.568	2.649	2.515	4.41
38)	A2	C2-Dibenzothiophe	2.446	2.431	2.387	2.462	2.568	2.649	2.515	4.41
39)	A2	C3-Dibenzothiophe	2.446	2.431	2.387	2.462	2.568	2.649	2.515	4.41
40)	A2	C4-Dibenzothiophe	2.446	2.431	2.387	2.462	2.568	2.649	2.515	4.41
41)	A1	Phenanthrene	2.521	2.485	2.363	2.469	2.563	2.633	2.529	4.11
42)	A2	3-Methylphenanthr	2.521	2.485	2.363	2.469	2.563	2.633	2.529	4.11
43)	A2	2/4-Methylphenant	2.521	2.485	2.363	2.469	2.563	2.633	2.529	4.11
44)	A2	2-Methylanthracen	2.521	2.485	2.363	2.469	2.563	2.633	2.529	4.11
45)	A2	9-Methylphenanthr	2.521	2.485	2.363	2.469	2.563	2.633	2.529	4.11
46)	A2	1-Methylphenanthr	2.521	2.485	2.363	2.469	2.563	2.633	2.529	4.11
47)	A2	C1-Phenanthrenes/	2.521	2.485	2.363	2.469	2.563	2.633	2.529	4.11
48)	A2	C2-Phenanthrenes/	2.521	2.485	2.363	2.469	2.563	2.633	2.529	4.11
49)	A2	5AA IS BKGD	2.521	2.485	2.363	2.469	2.563	2.633	2.529	4.11
50)	A2	C3-Phenanthrenes/	2.521	2.485	2.363	2.469	2.563	2.633	2.529	4.11
51)	A2	C4-Phenanthrenes/	2.521	2.485	2.363	2.469	2.563	2.633	2.529	4.11
52)	T	Retene	0.518	0.468	0.467	0.504	0.537	0.592	0.529	10.97
53)	t	Anthracene	2.227	2.197	2.142	2.282	2.438	2.545	2.340	7.22
54)	t	Carbazole	1.942	1.958	2.006	2.169	2.272	2.405	2.166	9.35
55)	t	1-Methylphenanthr	1.671	1.625	1.608	1.687	1.763	1.869	1.732	6.67
56)	A1	Fluoranthene	2.550	2.524	2.464	2.636	2.770	2.934	2.693	7.53
57)	T	Benzo(b)fluorene	1.413	1.378	1.355	1.524	1.628	1.816	1.572	13.58

RF checked 1/11/06

Response Factor Report PAH-1

Method Path : O:\FORENSICS\METHODS\PAH1\JAN2006\
Method File : PAH10104.M
Title : Decalins & Alkylated PAH's
Last Update : Thu Jan 05 07:03:26 2006
Response Via : Initial Calibration

Hardcopy checked against computer method on screen

Calibration Files
10 =P17274.D 25 =P17276.D 100 =P17278.D
500 =P17280.D 1250=P17282.D 5000=P17284.D 10000=P17286 CV/1/11/06

		Compound	10	25	100	500	1250	5000	Avg	%RSD
58)	s	Pyrene-d10	2.076	2.015	2.022	2.180	2.206	2.433	2.204	8.75
59)	A1	Pyrene	2.646	2.510	2.516	2.700	2.842	2.967	2.739	7.28
60)	A2	C1-Fluoranthenes/	2.646	2.510	2.516	2.700	2.842	2.967	2.739	7.28
61)	A2	C2-Fluoranthenes/	2.646	2.510	2.516	2.700	2.842	2.967	2.739	7.28
62)	A2	C3-Fluoranthenes/	2.646	2.510	2.516	2.700	2.842	2.967	2.739	7.28
63)	A2	C4-Fluoranthenes/	2.646	2.510	2.516	2.700	2.842	2.967	2.739	7.28
64)	A1	Naphthobenzothiop	2.420	2.299	2.321	2.493	2.622	2.845	2.562	9.75
65)	A2	Naphthobenzothiop	2.420	2.299	2.321	2.493	2.622	2.845	2.562	9.75
66)	A2	Naphthobenzothiop	2.420	2.299	2.321	2.493	2.622	2.845	2.562	9.75
67)	A2	Naphthobenzothiop	2.420	2.299	2.321	2.493	2.622	2.845	2.562	9.75
68)	A2	C1-Naphthobenzoth	2.420	2.299	2.321	2.493	2.622	2.845	2.562	9.75
69)	A2	C2-Naphthobenzoth	2.420	2.299	2.321	2.493	2.622	2.845	2.562	9.75
70)	A2	C3-Naphthobenzoth	2.420	2.299	2.321	2.493	2.622	2.845	2.562	9.75
71)	A2	C4-Naphthobenzoth	2.420	2.299	2.321	2.493	2.622	2.845	2.562	9.75
72)	i	Chrysene-d12	----------ISTD----------							
73)	t	Benz[a]anthracene	1.415	1.402	1.424	1.494	1.567	1.644	1.522	7.94
74)	A1	Chrysene	1.518	1.486	1.461	1.535	1.599	1.614	1.555	4.90
75)	A2	Chrysene/Tripheny	1.518	1.486	1.461	1.535	1.599	1.614	1.555	4.90
76)	A2	C1-Chrysenes	1.518	1.486	1.461	1.535	1.599	1.614	1.555	4.90
77)	A2	C2-Chrysenes	1.518	1.486	1.461	1.535	1.599	1.614	1.555	4.90
78)	A2	BBF-d12 Surr BKGD	1.518	1.486	1.461	1.535	1.599	1.614	1.555	4.90
79)	A2	C3-Chrysenes	1.518	1.486	1.461	1.535	1.599	1.614	1.555	4.90
80)	A2	C4-Chrysenes	1.518	1.486	1.461	1.535	1.599	1.614	1.555	4.90
81)	s	Benzo[b]fluoranth	0.969	0.924	0.918	0.986	0.983	1.068	0.996	7.50
82)	t	Benzo[b]fluoranth	1.418	1.422	1.393	1.549	1.669	1.697	1.563	10.22
83)	A1	Benzo[k]fluoranth	1.480	1.491	1.493	1.648	1.660	1.784	1.626	8.84
84)	A2	Benzo[a]fluoranth	1.480	1.491	1.493	1.648	1.660	1.784	1.626	8.84
85)	t	Benzo[e]pyrene	1.485	1.397	1.391	1.486	1.545	1.612	1.513	7.04
86)	t	Benzo[a]pyrene	1.466	1.285	1.334	1.465	1.548	1.653	1.497	10.74
87)	t	Perylene	1.379	1.273	1.291	1.429	1.534	1.635	1.464	11.40
88)	t	Indeno[1,2,3-cd]p	1.247	1.127	1.118	1.193	1.272	1.557✓	1.318	17.23
89)	t	Dibenz[a,h]anthra	1.125	1.151	1.154	1.329	1.414	1.571	1.343	15.97
90)	t	Benzo[g,h,i]peryl	1.423	1.378	1.339	1.491	1.574	1.679	1.518	10.10
91)	A1	17a(H),21B(H)-hop	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
92)	A2	Hopane (T19)	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
93)	A2	C23 Tricyclic Ter	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
94)	A2	C24 Tricyclic Ter	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
95)	A2	C25 Tricyclic Ter	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
96)	A2	C24 Tetracyclic T	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
97)	A2	C26 Tricyclic Ter	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
98)	A2	C26 Tricyclic Ter	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
99)	A2	C28 Tricyclic Ter	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
100)	A2	C28 Tricyclic Ter	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
101)	A2	C29 Tricyclic Ter	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
102)	A2	C29 Tricyclic Ter	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
103)	A2	18a-22,29,30-Tris	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
104)	A2	C30 Tricyclic Ter	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
105)	A2	C30 Tricyclic Ter	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
106)	A2	17a(H)-22,29,30-T	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
107)	A2	17a/b,21b/a 28,30	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
108)	A2	17a(H),21b(H)-25-	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
109)	A2	30-Norhopane (T15	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
110)	A2	18a(H)-30-Norneoh	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
111)	A2	17a(H)-Diahopane	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
112)	A2	30-Normoretane (T	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
113)	A2	18a(H)&18b(H)-Ole	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
114)	A2	Moretane (T20)	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66

RF checked CV/1/11/06

Method Path : O:\FORENSICS\METHODS\PAH1\JAN2006\
Method File : PAH10104.M
Title : Decalins & Alkylated PAH's
Last Update : Thu Jan 05 07:03:26 2006
Response Via : Initial Calibration

Calibration Files
10 =P17274.D 25 =P17276.D 100 =P17278.D
500 =P17280.D 1250=P17282.D 5000=P17284.D 10000= P17286 1/11/06

		Compound	10	25	100	500	1250	5000	Avg	%RSD
115)	A2	30-Homohopane-22S	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
116)	A2	30-Homohopane-22R	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
117)	A2	30,31-Bishomohopa	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
118)	A2	30,31-Bishomohopa	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
119)	A2	30,31-Trishomohop	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
120)	A2	30,31-Trishomohop	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
121)	A2	Tetrakishomohopan	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
122)	A2	Tetrakishomohopan	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
123)	A2	Pentakishomohopan	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
124)	A2	Pentakishomohopan	0.558	0.437	0.442	0.425	0.419	0.396	0.439	12.66
125)	SA1	5B(H)Cholane - Su	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
126)	A2	13b(H),17a(H)-20S	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
127)	A2	13b(H),17a(H)-20R	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
128)	A2	13b,17a-20S-Methy	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
129)	A2	14a(H),17a(H)-20S	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
130)	A2	14a(H),17a(H)-20R	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
131)	A2	13b,17a-20R-Ethyl	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
132)	A2	13a,17b-20S-Ethyl	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
133)	A2	14a,17a-20S-Methy	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
134)	A2	14a,17a-20R-Methy	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
135)	A2	14a(H),17a(H)-20S	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
136)	A2	14a(H),17a(H)-20R	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
137)	A2	14b(H),17b(H)-20R	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
138)	A2	14b(H),17b(H)-20S	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
139)	A2	14b,17b-20R-Methy	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
140)	A2	14b,17b-20S-Methy	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
141)	A2	14b(H),17b(H)-20R	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57
142)	A2	14b(H),17b(H)-20S	0.194	0.180	0.178	0.189	0.197	0.214	0.196	8.57

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

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17274.D
Acq On : 4 Jan 2006 4:29 pm
Operator : AC
Sample : I1010401
Misc : L1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 06:52:04 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:19:07 2006
Response via : Initial Calibration

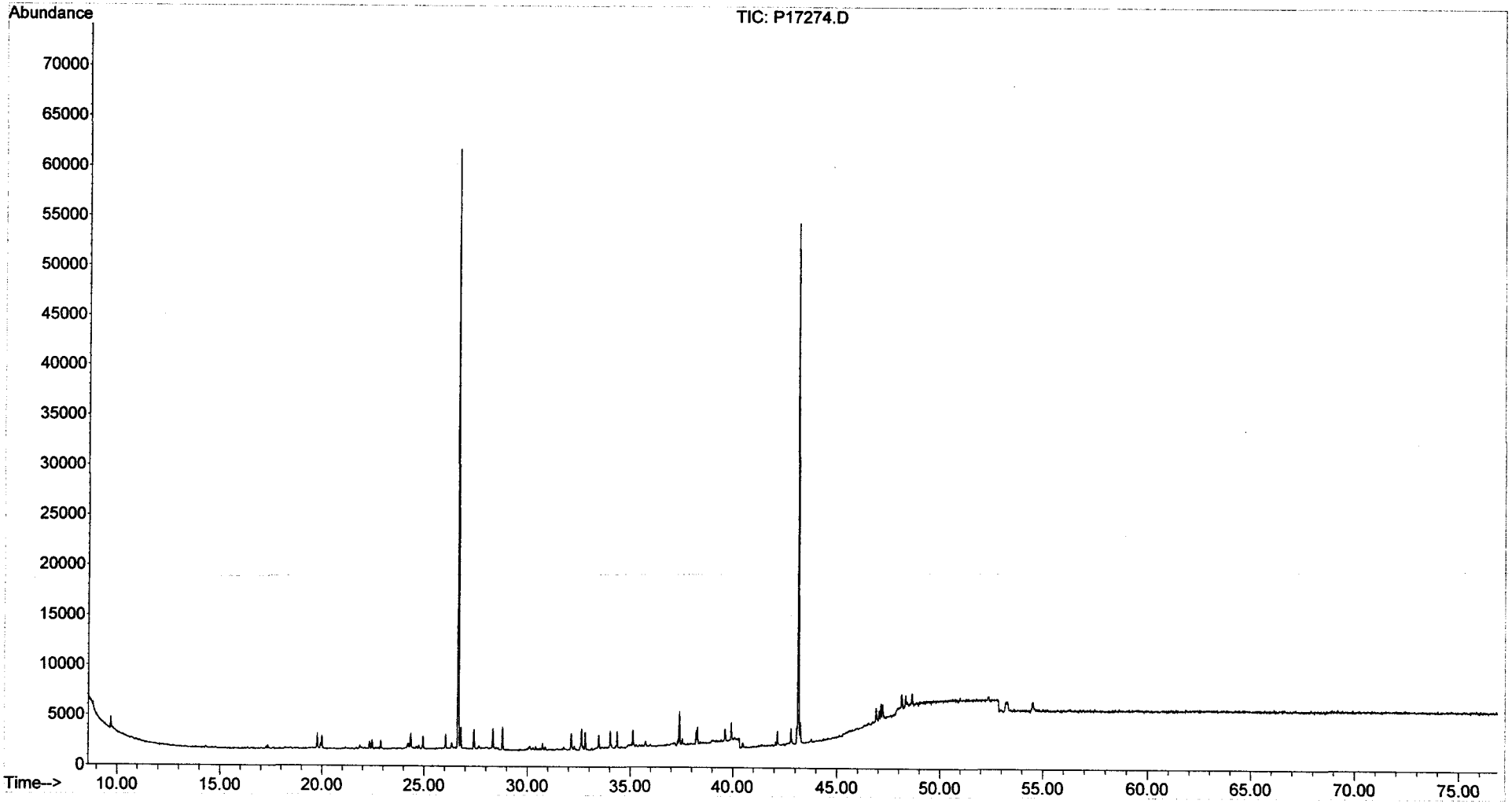
CM 1/5/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.67	164	68772	500.00	ng/mL	0.00
72) Chrysene-d12	43.14	240	102778	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.34	152	1457	9.82	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.98%#	
58) Pyrene-d10	38.22	212	2855	9.41	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.94%#	
81) Benzo[b]fluoranthene-d12	47.05	264	1991	9.85	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.98%#	
125) 5B(H)Cholane - Surr	43.78	217	398m	9.83	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.98%#	
Target Compounds						Qvalue
2) Decalin	16.36	138	542m	10.25	ng/mL	
3) trans-Decalin	16.36	138	302m	5.05	ng/mL	
4) cis-Decalin	17.58	138	220m	4.87	ng/mL	
9) Naphthalene	19.77	128	3513	9.79	ng/mL#	100
15) 2-Methylnaphthalene	22.47	142	2139	9.37	ng/mL#	100
16) 1-Methylnaphthalene	22.89	142	2017	9.33	ng/mL#	100
17) Benzothiophene	19.99	134	3114	9.78	ng/mL	100
22) Biphenyl	24.35	154	2750m	9.80	ng/mL	
23) 2,6-Dimethylnaphthalene	24.96	156	1759m	9.26	ng/mL	
24) Dibenzofuran	27.43	168	3012	9.42	ng/mL#	88
25) Acenaphthylene	26.05	152	3163	9.06	ng/mL#	100
26) Acenaphthene	26.79	153	2064	9.65	ng/mL	96
27) 2,3,5-Trimethylnaphthalene	28.35	170	1656	9.76	ng/mL	99
28) Fluorene	28.81	166	2317	9.58	ng/mL	97
32) Dibenzothiophene	32.13	184	3365	9.53	ng/mL#	75
41) Phenanthrene	32.62	178	3468	9.84	ng/mL#	58
52) Retene	39.63	234	712m	9.65	ng/mL	
53) Anthracene	32.81	178	3063m	9.13	ng/mL	
54) Carbazole	33.48	167	2671	8.55	ng/mL#	64
55) 1-Methylphenanthrene	35.14	192	2299	9.48	ng/mL	98
56) Fluoranthene	37.40	202	3507	9.21	ng/mL#	67
57) Benzo(b)fluorene	39.93	216	1944	8.68	ng/mL	99
59) Pyrene	38.28	202	3639	9.31	ng/mL#	64
64) Naphthobenzothiophene	42.15	234	3328	9.23	ng/ml#	74
65) Naphthobenzothiophene-2,1-	42.15	234	3328	9.23	ng/mL#	74
73) Benz[a]anthracene	43.08	228	2908	9.03	ng/mL#	48
74) Chrysene	43.24	228	3120	9.49	ng/mL#	45
75) Chrysene/Triphenylene	43.24	228	3120	9.49	ng/mL#	45
82) Benzo[b]fluoranthene	47.14	252	2914m	8.49	ng/mL	
83) Benzo[k]fluoranthene	47.23	252	3043	8.92	ng/mL#	54
85) Benzo[e]pyrene	48.14	252	3052	9.61	ng/mL#	69
86) Benzo[a]pyrene	48.34	252	3014	9.47	ng/mL#	54
87) Perylene	48.65	252	2835	8.99	ng/mL#	55
88) Indeno[1,2,3-cd]pyrene	53.21	276	2564m	9.14	ng/mL	
89) Dibenz[a,h]anthracene	53.27	278	2313	7.96	ng/mL#	55
90) Benzo[g,h,i]perylene	54.52	276	2926	9.04	ng/mL#	52
91) 17a(H),21B(H)-hopane - C30	52.37	191	1147m	13.07	ng/mL	
92) Hopane (T19)	52.37	191	1147m	13.07	ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17274.D
Acq On : 4 Jan 2006 4:29 pm
Operator : AC
Sample : I1010401
Misc : L1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 06:52:04 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:19:07 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17276.D
Acq On : 4 Jan 2006 6:04 pm
Operator : AC
Sample : I1010402
Misc : L2
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 06:54:13 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M MS 1-5-06
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:19:07 2006
Response via : Initial Calibration

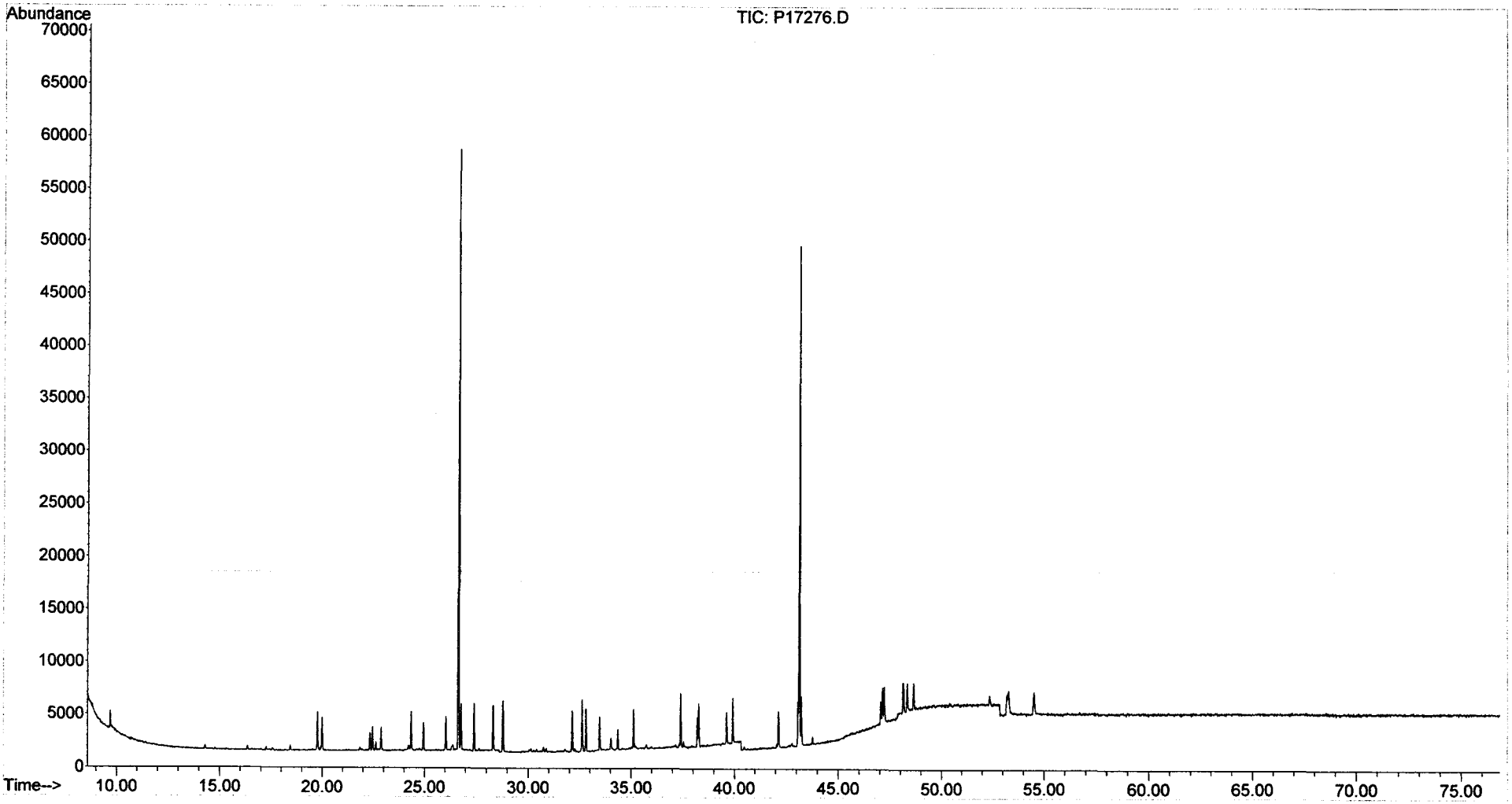
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.67	164	65919	500.00	ng/mL	0.00
72) Chrysene-d12	43.14	240	96617	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.34	152	3522	24.76	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 2.48%#			
58) Pyrene-d10	38.22	212	6640	22.83	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 2.28%#			
81) Benzo[b]fluoranthene-d12	47.05	264	4463	23.49	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 2.35%#			
125) 5B(H)Cholane - Surr	43.78	217	869m	22.82	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 2.28%#			

Target Compounds						Qvalue
2) Decalin	16.36	138	1436m	28.34	ng/mL	
3) trans-Decalin	16.36	138	733m	12.78	ng/mL	
4) cis-Decalin	17.58	138	551m	12.73	ng/mL	
9) Naphthalene	19.77	128	8284	24.08	ng/mL#	100
15) 2-Methylnaphthalene	22.47	142	5157	23.57	ng/mL#	100
16) 1-Methylnaphthalene	22.89	142	4851	23.41	ng/mL#	100
17) Benzothiophene	19.99	134	7506	24.60	ng/mL	100
22) Biphenyl	24.35	154	6498m	24.16	ng/mL	
23) 2,6-Dimethylnaphthalene	24.96	156	4266	23.43	ng/mL#	100
24) Dibenzofuran	27.43	168	7199	23.49	ng/mL#	92
25) Acenaphthylene	26.05	152	7625	22.78	ng/mL#	100
26) Acenaphthene	26.79	153	4784	23.33	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.35	170	3721	22.88	ng/mL	97
28) Fluorene	28.81	166	5259m	22.68	ng/mL	
32) Dibenzothiophene	32.13	184	8013	23.67	ng/mL#	75
41) Phenanthrene	32.62	178	8192	24.24	ng/mL	100
52) Retene	39.63	234	1542	21.80	ng/mL	99
53) Anthracene	32.80	178	7241m	22.52	ng/mL	
54) Carbazole	33.46	167	6454	21.55	ng/mL	96
55) 1-Methylphenanthrene	35.14	192	5357	23.05	ng/mL	97
56) Fluoranthene	37.40	202	8320	22.78	ng/mL	98
57) Benzo(b)fluorene	39.93	216	4543	21.17	ng/mL	99
59) Pyrene	38.28	202	8272	22.08	ng/mL	98
64) Naphthobenzothiophene	42.15	234	7579	21.92	ng/ml#	74
65) Naphthobenzothiophene-2,1-	42.15	234	7579	21.92	ng/mL#	74
73) Benz[a]anthracene	43.08	228	6774m	22.37	ng/mL	
74) Chrysene	43.24	228	7181	23.23	ng/mL	98
75) Chrysene/Triphenylene	43.24	228	7181	23.23	ng/mL	98
82) Benzo[b]fluoranthene	47.14	252	6868	21.29	ng/mL	94
83) Benzo[k]fluoranthene	47.23	252	7205	22.46	ng/mL	99
85) Benzo[e]pyrene	48.16	252	6748m	22.60	ng/mL	
86) Benzo[a]pyrene	48.34	252	6206m	20.75	ng/mL	
87) Perylene	48.65	252	6150m	20.75	ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.20	276	5445m	20.65	ng/mL	
89) Dibenz[a,h]anthracene	53.29	278	5560	20.34	ng/mL#	80
90) Benzo[g,h,i]perylene	54.51	276	6658	21.89	ng/mL	97
91) 17a(H),21B(H)-hopane - C30	52.37	191	2111m	25.59	ng/mL	
92) Hopane (T19)	52.37	191	2111m	25.59	ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17276.D
Acq On : 4 Jan 2006 6:04 pm
Operator : AC
Sample : I1010402
Misc : L2
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 06:54:13 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:19:07 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17278.D
Acq On : 4 Jan 2006 7:40 pm
Operator : AC
Sample : I1010403
Misc : L3
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 06:55:35 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:19:07 2006
Response via : Initial Calibration

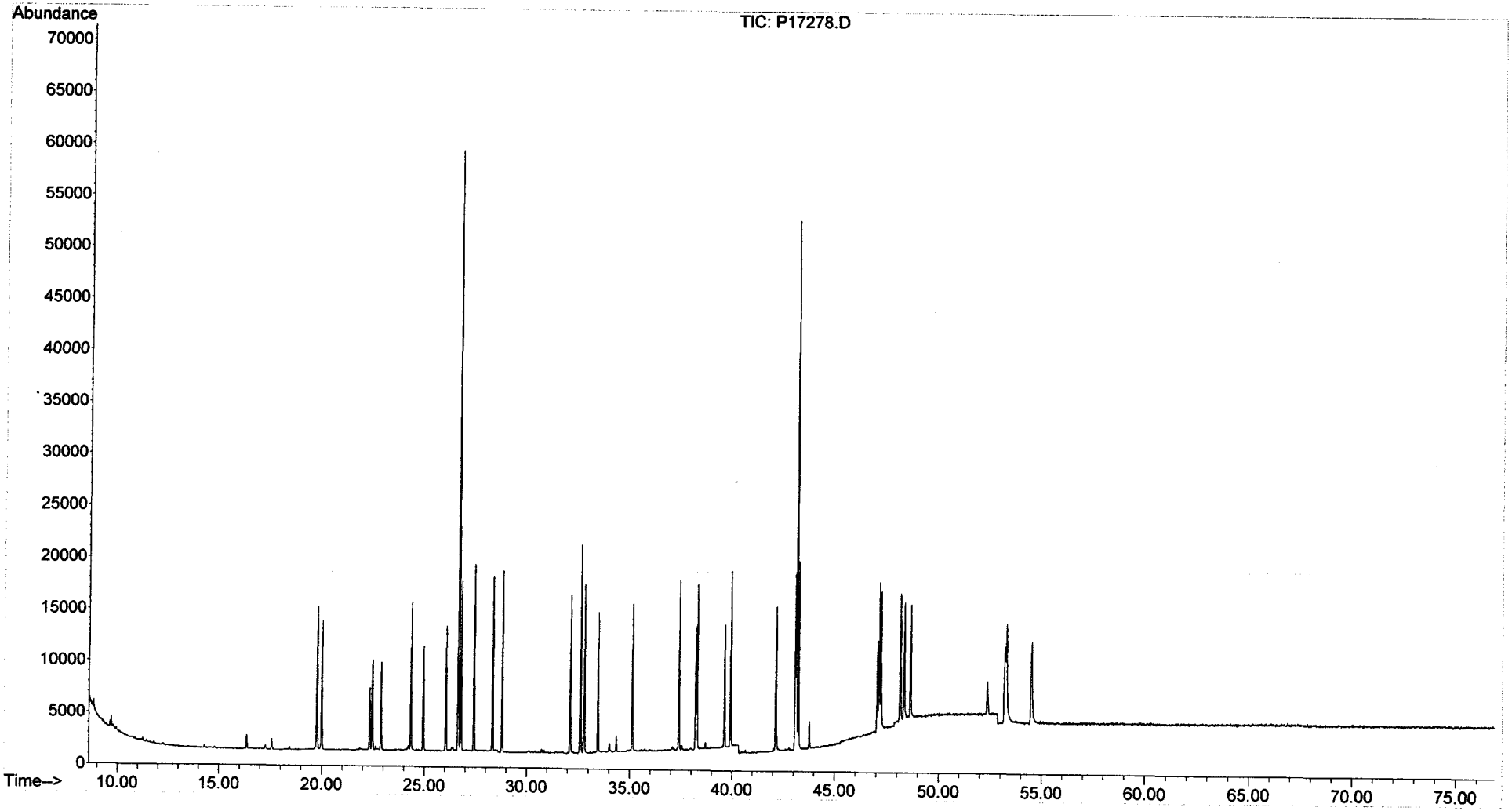
MB 1-5-06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.67	164	66392	500.00	ng/mL	0.00
72) Chrysene-d12	43.14	240	99377	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.34	152	13633	95.16	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 9.52%#			
58) Pyrene-d10	38.22	212	26851	91.65	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 9.17%#			
81) Benzo[b]fluoranthene-d12	47.05	264	18252	93.41	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 9.34%#			
125) 5B(H)Cholane - Surr	43.78	217	3545	90.52	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 9.05%#			
Target Compounds						Qvalue
2) Decalin	16.36	138	5359m	104.99	ng/mL	
3) trans-Decalin	16.36	138	2827	48.93	ng/mL	100
4) cis-Decalin	17.58	138	2185	50.11	ng/mL	100
9) Naphthalene	19.77	128	33020	95.29	ng/mL#	100
15) 2-Methylnaphthalene	22.47	142	20778	94.27	ng/mL#	100
16) 1-Methylnaphthalene	22.89	142	19684	94.33	ng/mL#	100
17) Benzothiophene	19.99	134	29580	96.25	ng/mL	100
22) Biphenyl	24.35	154	26020	96.07	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.96	156	16937	92.34	ng/mL#	100
24) Dibenzofuran	27.43	168	28998	93.94	ng/mL	99
25) Acenaphthylene	26.05	152	29916	88.73	ng/mL#	100
26) Acenaphthene	26.79	153	19123	92.59	ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.35	170	14656	89.47	ng/mL	99
28) Fluorene	28.81	166	21112	90.42	ng/mL	100
32) Dibenzothiophene	32.13	184	31693	92.95	ng/mL	100
41) Phenanthrene	32.62	178	31372	92.16	ng/mL	100
52) Retene	39.63	234	6199	87.01	ng/mL	100
53) Anthracene	32.81	178	28438m	87.83	ng/mL	
54) Carbazole	33.46	167	26632	88.28	ng/mL	100
55) 1-Methylphenanthrene	35.14	192	21352	91.21	ng/mL	99
56) Fluoranthene	37.40	202	32720	88.97	ng/mL	100
57) Benzo(b)fluorene	39.93	216	17994	83.25	ng/mL	99
59) Pyrene	38.28	202	33413	88.55	ng/mL	99
64) Naphthobenzothiophene	42.15	234	30819	88.51	ng/ml	99
65) Naphthobenzothiophene-2,1-	42.15	234	30819	88.51	ng/mL	99
73) Benz[a]anthracene	43.08	228	28302	90.86	ng/mL	99
74) Chrysene	43.24	228	29039	91.35	ng/mL	99
75) Chrysene/Triphenylene	43.24	228	29039	91.35	ng/mL	99
82) Benzo[b]fluoranthene	47.14	252	27689	83.45	ng/mL	96
83) Benzo[k]fluoranthene	47.23	252	29668	89.93	ng/mL	97
85) Benzo[e]pyrene	48.14	252	27649	90.04	ng/mL	97
86) Benzo[a]pyrene	48.34	252	26521	86.19	ng/mL	93
87) Perylene	48.65	252	25658	84.16	ng/mL	95
88) Indeno[1,2,3-cd]pyrene	53.20	276	22228m	81.97	ng/mL	
89) Dibenz[a,h]anthracene	53.27	278	22944	81.62	ng/mL	97
90) Benzo[g,h,i]perylene	54.51	276	26619	85.08	ng/mL	99
91) 17a(H),21B(H)-hopane - C30	52.36	191	8792	103.62	ng/mL#	76
92) Hopane (T19)	52.36	191	8792	103.62	ng/mL#	76

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17278.D
Acq On : 4 Jan 2006 7:40 pm
Operator : AC
Sample : I1010403
Misc : L3
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 06:55:35 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:19:07 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17280.D
Acq On : 4 Jan 2006 9:15 pm
Operator : AC
Sample : I1010404
Misc : L4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 06:56:31 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:30:56 2006
Response via : Initial Calibration

CMS 1-5-06

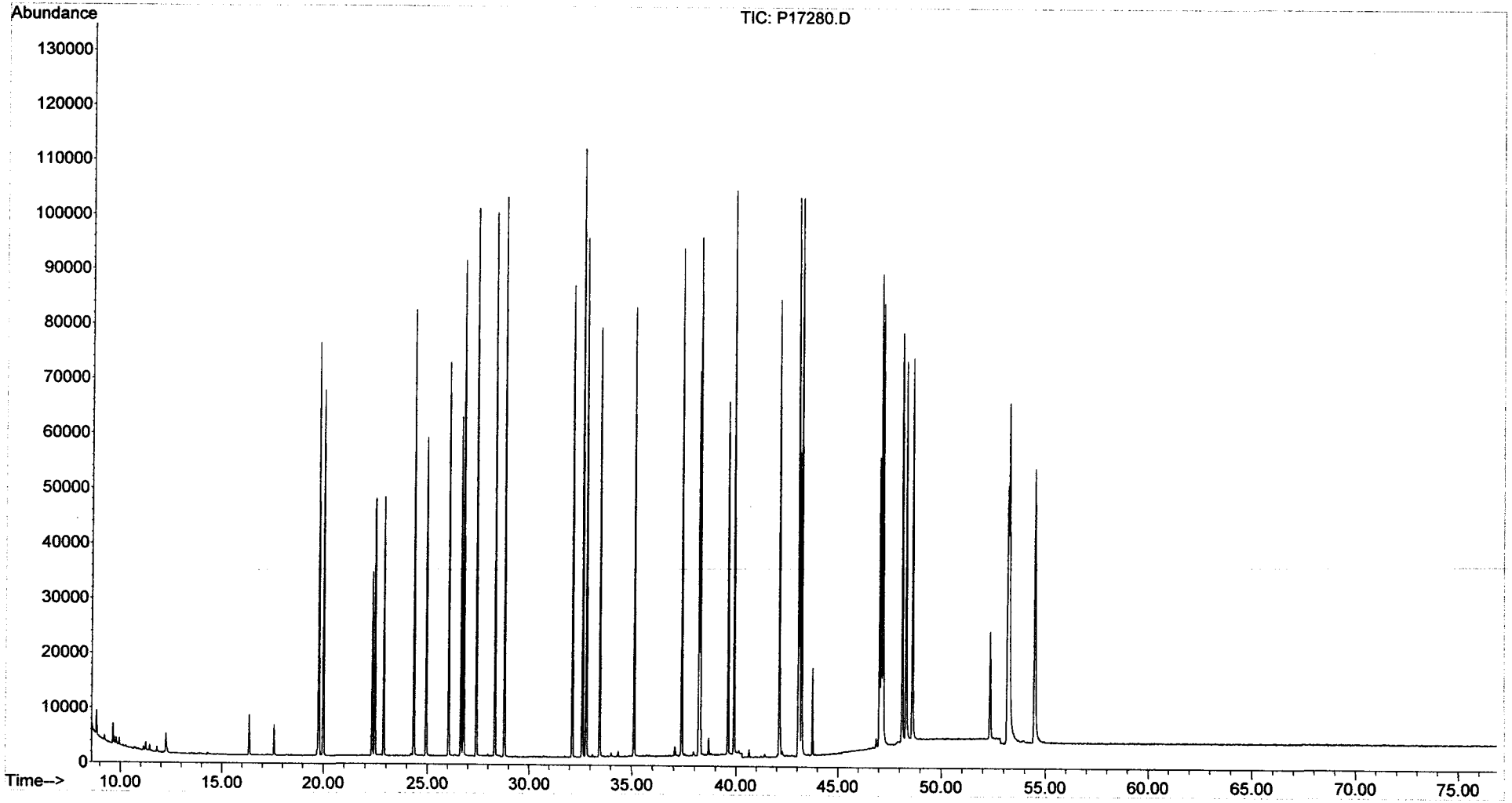
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.67	164	71275	500.00	ng/mL	0.00
72) Chrysene-d12	43.14	240	108818	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.34	152	74947	496.76	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 49.68%#			
58) Pyrene-d10	38.22	212	155412	524.21	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 52.42%			
81) Benzo[b]fluoranthene-d12	47.05	264	107268	519.66	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 51.97%			
125) 5B(H)Cholane - Surr	43.78	217	20558	504.53	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 50.45%			

Target Compounds						Qvalue
2) Decalin	16.36	138	26230m	454.97	ng/mL	
3) trans-Decalin	16.36	138	14929	240.09	ng/mL	100
4) cis-Decalin	17.58	138	11255	240.77	ng/mL	100
9) Naphthalene	19.77	128	181202	500.27	ng/mL#	100
15) 2-Methylnaphthalene	22.47	142	113851	503.54	ng/mL#	100
16) 1-Methylnaphthalene	22.89	142	107080	501.44	ng/mL#	100
17) Benzothiophene	19.99	134	161214	498.02	ng/mL	100
22) Biphenyl	24.35	154	141241	497.26	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.96	156	93790	503.21	ng/mL#	100
24) Dibenzofuran	27.43	168	158411	500.43	ng/mL	100
25) Acenaphthylene	26.05	152	171655	512.13	ng/mL#	100
26) Acenaphthene	26.79	153	106287	501.45	ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.35	170	83048	498.97	ng/mL	100
28) Fluorene	28.81	166	118094	499.92	ng/mL	100
32) Dibenzothiophene	32.13	184	175502	500.86	ng/mL	100
41) Phenanthrene	32.62	178	175996	497.18	ng/mL	100
52) Retene	39.63	234	35891	506.37	ng/mL	99
53) Anthracene	32.81	178	162649m	506.89	ng/mL	
54) Carbazole	33.46	167	154616	530.54	ng/mL	100
55) 1-Methylphenanthrene	35.14	192	120214	505.89	ng/mL	99
56) Fluoranthene	37.40	202	187873	511.43	ng/mL	99
57) Benzo(b)fluorene	39.93	216	108641	527.92	ng/mL	100
59) Pyrene	38.28	202	192465	513.68	ng/mL	100
64) Naphthobenzothiophene	42.15	234	177719	516.11	ng/ml	100
65) Naphthobenzothiophene-2,1-	42.15	234	177719	516.11	ng/mL	100
73) Benz[a]anthracene	43.08	228	162619	514.60	ng/mL	99
74) Chrysene	43.24	228	166989	506.06	ng/mL	100
75) Chrysene/Triphenylene	43.24	228	166989	506.06	ng/mL	100
82) Benzo[b]fluoranthene	47.14	252	168523	524.81	ng/mL	100
83) Benzo[k]fluoranthene	47.23	252	179341	538.20	ng/mL	100
85) Benzo[e]pyrene	48.14	252	161659	510.72	ng/mL	99
86) Benzo[a]pyrene	48.34	252	159386	520.00	ng/mL	100
87) Perylene	48.65	252	155452m	521.64	ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.20	276	129799m	492.93	ng/mL	
89) Dibenz[a,h]anthracene	53.27	278	144587	548.50	ng/mL	99
90) Benzo[g,h,i]perylene	54.51	276	162269	521.85	ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.36	191	46281	452.27	ng/mL	99
92) Hopane (T19)	52.36	191	46281	452.62	ng/mL	99

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17280.D
Acq On : 4 Jan 2006 9:15 pm
Operator : AC
Sample : I1010404
Misc : L4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 06:56:31 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:30:56 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17282.D
Acq On : 4 Jan 2006 10:50 pm
Operator : AC
Sample : I1010405
Misc : L5
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 06:58:39 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:11:09 2006
Response via : Initial Calibration

MS 1-5-06

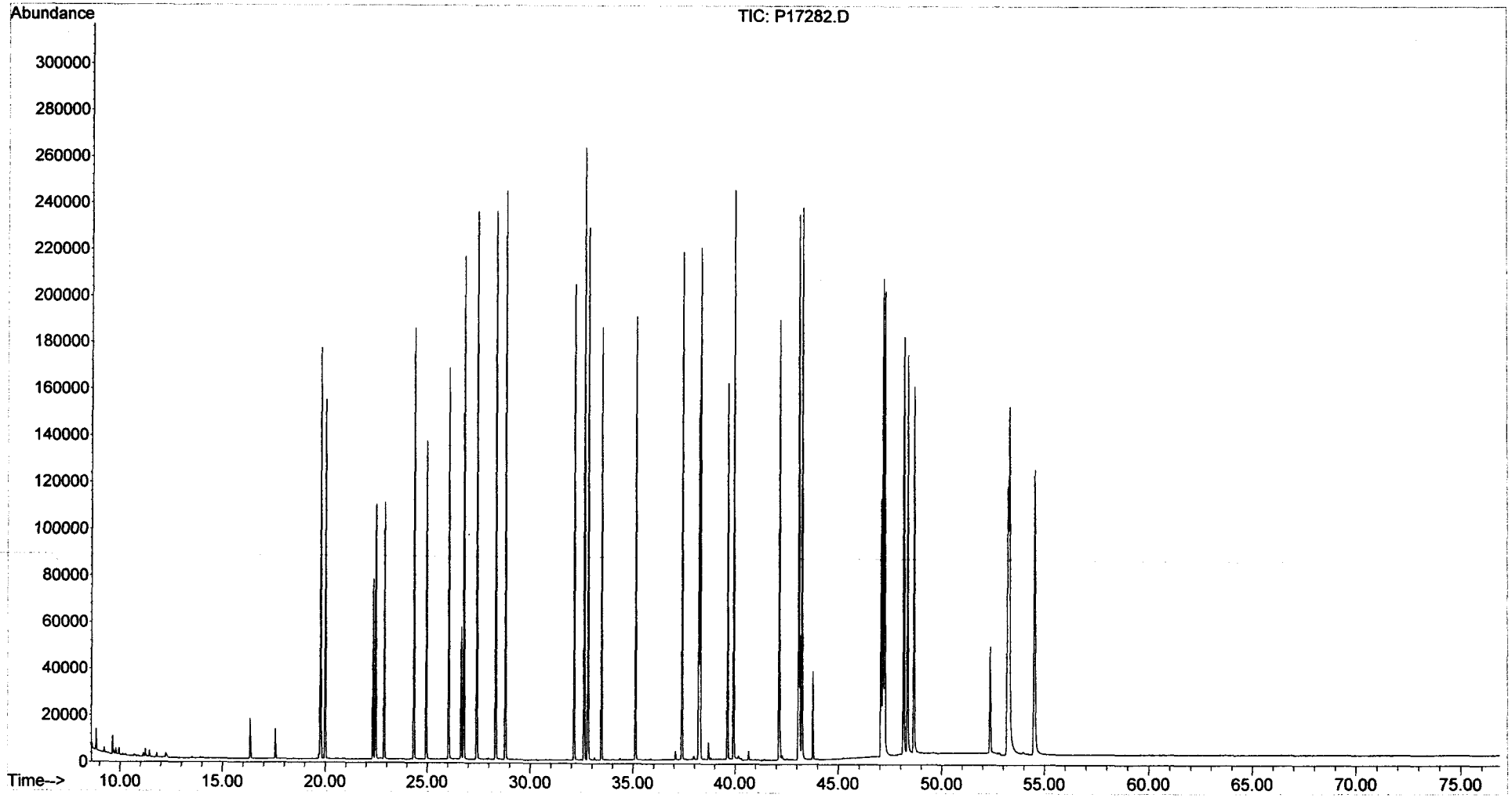
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.67	164	63436	500.00 ng/mL	0.00
72) Chrysene-d12	43.14	240	97535	500.00 ng/mL	0.00
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.34	152	171111	1266.33 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 126.63%		
58) Pyrene-d10	38.22	212	349927	1118.11 ng/mL	0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 111.81%		
81) Benzo[b]fluoranthene-d12	47.05	264	239709	1282.65 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 128.27%		
125) 5B(H)Cholane - Surr	43.78	217	48045	1200.51 ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 120.05%		

Target Compounds					Qvalue
2) Decalin	16.36	138	60963m	1237.90 ng/mL	
3) trans-Decalin	16.36	138	34499	656.48 ng/mL	100
4) cis-Decalin	17.58	138	26038	681.25 ng/mL	100
9) Naphthalene	19.77	128	413849	1486.68 ng/mL#	100
15) 2-Methylnaphthalene	22.47	142	263234	1413.70 ng/mL#	100
16) 1-Methylnaphthalene	22.89	142	249223	1396.07 ng/mL#	100
17) Benzothiophene	19.99	134	367033	1587.74 ng/mL	100
22) Biphenyl	24.35	154	323478	1369.67 ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.96	156	219055	1364.05 ng/mL#	100
24) Dibenzofuran	27.43	168	368661	1360.67 ng/mL	99
25) Acenaphthylene	26.05	152	402699	1434.84 ng/mL#	100
26) Acenaphthene	26.79	153	246674	1404.11 ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.35	170	195648	1301.33 ng/mL	98
28) Fluorene	28.81	166	278871	1378.56 ng/mL	99
32) Dibenzothiophene	32.13	184	407250	1379.15 ng/mL	97
41) Phenanthrene	32.62	178	406544	1319.60 ng/mL	100
52) Retene	39.63	234	85089	1165.62 ng/mL	100
53) Anthracene	32.81	178	386697m	1385.76 ng/mL	
54) Carbazole	33.46	167	360312	1466.50 ng/mL	100
55) 1-Methylphenanthrene	35.14	192	279607	1288.50 ng/mL	100
56) Fluoranthene	37.40	202	439252	1291.16 ng/mL#	91
57) Benzo(b)fluorene	39.93	216	258137	1307.54 ng/mL	99
59) Pyrene	38.28	202	450682	1300.19 ng/mL#	87
64) Naphthobenzothiophene	42.15	234	415859	1320.50 ng/ml	99
65) Naphthobenzothiophene-2,1-	42.15	234	415859	1320.50 ng/mL	99
73) Benz[a]anthracene	43.08	228	382138	1444.75 ng/mL	100
74) Chrysene	43.24	228	390005	1443.10 ng/mL	99
75) Chrysene/Triphenylene	43.24	228	390005	1443.10 ng/mL	99
82) Benzo[b]fluoranthene	47.14	252	407057	1490.87 ng/mL#	89
83) Benzo[k]fluoranthene	47.23	252	404748	1520.92 ng/mL#	88
85) Benzo[e]pyrene	48.16	252	376712	1432.43 ng/mL#	85
86) Benzo[a]pyrene	48.34	252	377493m	1511.86 ng/mL	
87) Perylene	48.65	252	374032	1521.84 ng/mL#	83
88) Indeno[1,2,3-cd]pyrene	53.20	276	310220m	1416.85 ng/mL	
89) Dibenz[a,h]anthracene	53.29	278	344868	1576.15 ng/mL#	92
90) Benzo[g,h,i]perylene	54.52	276	383819	1566.79 ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.36	191	102270m	1196.99 ng/mL	
92) Hopane (T19)	52.36	191	102318m	1197.55 ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17282.D
Acq On : 4 Jan 2006 10:50 pm
Operator : AC
Sample : I1010405
Misc : L5
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 06:58:39 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:11:09 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17284.D
Acq On : 5 Jan 2006 12:26 am
Operator : AC
Sample : I1010406
Misc : L6
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 06:40:04 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:35:34 2006
Response via : Initial Calibration

MS 1-5-06

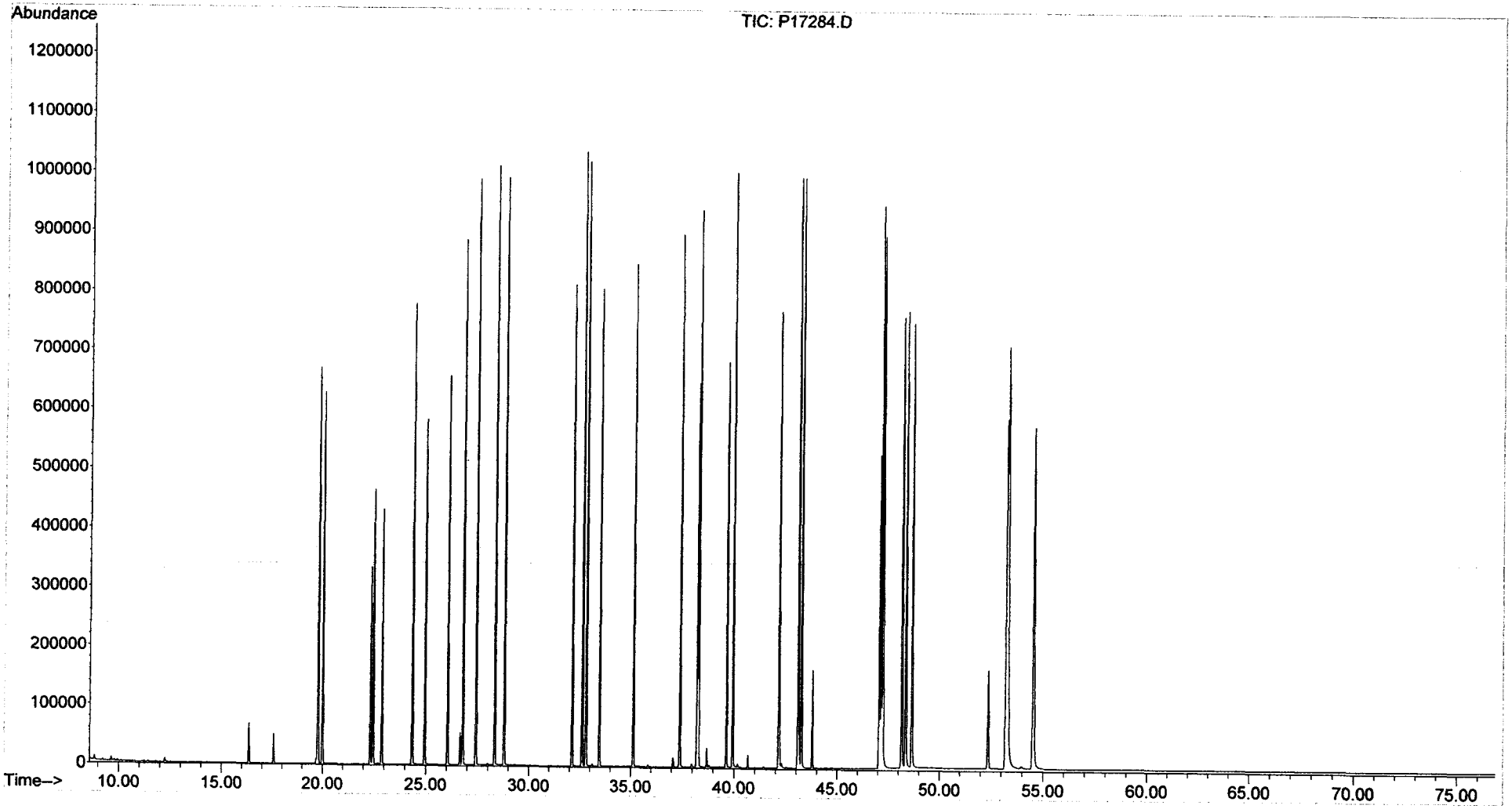
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.67	164	62439	500.00 ng/mL	0.00
72) Chrysene-d12	43.15	240	101542	500.00 ng/mL	0.01
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.34	152	705944	5348.16 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 534.82%#		
58) Pyrene-d10	38.22	212	1518835	5792.03 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 579.20%#		
81) Benzo[b]fluoranthene-d12	47.07	264	1084005	5583.86 ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 558.39%#		
125) 5B(H)Cholane - Surr	43.78	217	217417	5707.76 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 570.78%#		

Target Compounds					Qvalue
2) Decalin	16.36	138	239149m	4822.02 ng/mL	
3) trans-Decalin	16.36	138	136458	2525.13 ng/mL	100
4) cis-Decalin	17.58	138	102583	2523.64 ng/mL	100
9) Naphthalene	19.77	128	1628939	5133.07 ng/mL#	100
15) 2-Methylnaphthalene	22.47	142	1064587	5367.20 ng/mL#	100
16) 1-Methylnaphthalene	22.89	142	992011	5299.78 ng/mL#	100
17) Benzothiophene	19.99	134	1451976	5124.25 ng/mL	100
22) Biphenyl	24.35	154	1293365	5203.60 ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.96	156	886644	5423.33 ng/mL#	100
24) Dibenzofuran	27.43	168	1470635	5302.36 ng/mL	100
25) Acenaphthylene	26.06	152	1661396	5630.84 ng/mL#	100
26) Acenaphthene	26.79	153	1001896	5392.60 ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.35	170	805368	5525.83 ng/mL	99
28) Fluorene	28.81	166	1141408	5515.83 ng/mL	100
32) Dibenzothiophene	32.13	184	1653968	5386.32 ng/mL	100
41) Phenanthrene	32.62	178	1644272	5308.33 ng/mL	100
52) Retene	39.63	234	369364	5933.54 ng/mL	100
53) Anthracene	32.81	178	1589145m	5637.84 ng/mL	
54) Carbazole	33.48	167	1501779	5811.33 ng/mL	100
55) 1-Methylphenanthrene	35.14	192	1166892	5592.33 ng/mL	100
56) Fluoranthene	37.40	202	1832130m	5667.32 ng/mL	
57) Benzo(b)fluorene	39.94	216	1134172	6221.73 ng/mL	100
59) Pyrene	38.30	202	1852431	5613.00 ng/mL	99
64) Naphthobenzothiophene	42.16	234	1776519	5851.58 ng/ml	100
65) Naphthobenzothiophene-2,1-	42.16	234	1776496	5851.51 ng/mL	100
73) Benz[a]anthracene	43.09	228	1669392	5628.35 ng/mL	99
74) Chrysene	43.25	228	1638682	5308.97 ng/mL	100
75) Chrysene/Triphenylene	43.25	228	1639339	5311.10 ng/mL	100
82) Benzo[b]fluoranthene	47.15	252	1722706	5692.73 ng/mL	100
83) Benzo[k]fluoranthene	47.24	252	1811486	5738.09 ng/mL	100
85) Benzo[e]pyrene	48.17	252	1637175	5519.17 ng/mL	100
86) Benzo[a]pyrene	48.35	252	1678359	5821.51 ng/mL	100
87) Perylene	48.66	252	1660598	5920.41 ng/mL	100
88) Indeno[1,2,3-cd]pyrene	53.22	276	1580959m	6453.98 ng/mL	
89) Dibenz[a,h]anthracene	53.30	278	1595379	6362.37 ng/mL	100
90) Benzo[g,h,i]perylene	54.55	276	1704807	5824.52 ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.37	191	402599	4298.25 ng/mL	99
92) Hopane (T19)	52.37	191	402599	4300.95 ng/mL	99

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17284.D
Acq On : 5 Jan 2006 12:26 am
Operator : AC
Sample : I1010406
Misc : L6
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 06:40:04 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:35:34 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17286.D
Acq On : 5 Jan 2006 2:00 am
Operator : AC
Sample : I1010407
Misc : L7
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 07:00:27 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:40:19 2006
Response via : Initial Calibration

MS 1-5-06

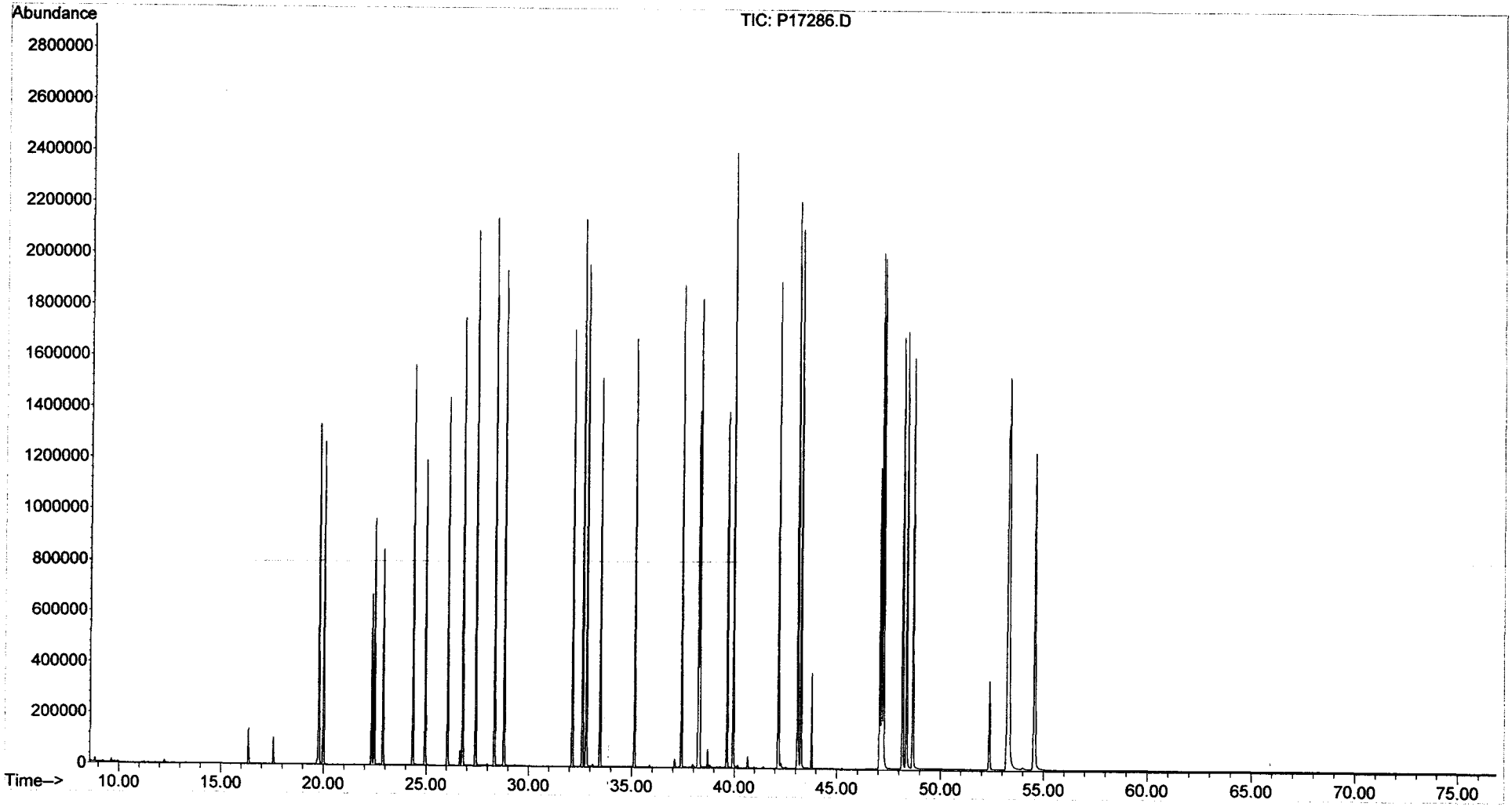
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.67	164	65362	500.00 ng/mL	0.00
72) Chrysene-d12	43.15	240	106253	500.00 ng/mL	0.01
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.34	152	1421793	10171.62 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	= 1017.16%#	
58) Pyrene-d10	38.23	212	3261697	11576.49 ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery	= 1157.65%#	
81) Benzo[b]fluoranthene-d12	47.08	264	2385707	11520.04 ng/mL	0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery	= 1152.00%#	
125) 5B(H)Cholane - Surr	43.79	217	474573	11631.96 ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery	= 1163.20%#	

Target Compounds					Qvalue
2) Decalin	16.36	138	485177m	9401.02 ng/mL	
3) trans-Decalin	16.36	138	276285	4875.80 ng/mL	100
4) cis-Decalin	17.58	138	208434	4890.66 ng/mL	100
9) Naphthalene	19.78	128	3345433	10026.13 ng/mL#	100
15) 2-Methylnaphthalene	22.47	142	2181497	10379.31 ng/mL#	100
16) 1-Methylnaphthalene	22.89	142	2051899	10368.36 ng/mL#	100
17) Benzothiophene	19.99	134	2971108	9975.27 ng/mL	100
22) Biphenyl	24.35	154	2673051	10204.30 ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.96	156	1862705	10732.63 ng/mL#	100
24) Dibenzofuran	27.43	168	3063405	10445.85 ng/mL	100
25) Acenaphthylene	26.06	152	3482207	11041.99 ng/mL#	100
26) Acenaphthene	26.79	153	2094541	10630.38 ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.35	170	1705543	10986.27 ng/mL	98
28) Fluorene	28.81	166	2386821	10832.19 ng/mL	99
32) Dibenzothiophene	32.14	184	3481728	10693.84 ng/mL	100
41) Phenanthrene	32.64	178	3488197	10648.18 ng/mL	100
52) Retene	39.65	234	807383	12016.04 ng/mL	99
53) Anthracene	32.81	178	3332392m	11058.57 ng/mL	
54) Carbazole	33.48	167	3147812	11329.73 ng/mL	100
55) 1-Methylphenanthrene	35.14	192	2482402	11144.84 ng/mL	99
56) Fluoranthene	37.42	202	3885280m	11231.04 ng/mL	
57) Benzo(b)fluorene	39.94	216	2465221	12413.17 ng/mL	100
59) Pyrene	38.31	202	3910182	11091.64 ng/mL	100
64) Naphthobenzothiophene	42.16	234	3836418	11738.26 ng/ml	99
65) Naphthobenzothiophene-2,1-	42.16	234	3836745	11739.29 ng/mL	99
73) Benz[a]anthracene	43.09	228	3629131	11453.21 ng/mL	100
74) Chrysene	43.26	228	3556151	10898.09 ng/mL	100
75) Chrysene/Triphenylene	43.26	228	3556402	10898.09 ng/mL	100
82) Benzo[b]fluoranthene	47.16	252	3814487	11774.32 ng/mL	100
83) Benzo[k]fluoranthene	47.25	252	3882179	11469.83 ng/mL	99
85) Benzo[e]pyrene	48.17	252	3566344	11294.18 ng/mL	100
86) Benzo[a]pyrene	48.37	252	3677925	11866.57 ng/mL	100
87) Perylene	48.68	252	3622735	11975.80 ng/mL	99
88) Indeno[1,2,3-cd]pyrene	53.25	276	3632266m	13515.58 ng/mL	
89) Dibenz[a,h]anthracene	53.32	278	3522142	12840.41 ng/mL	100
90) Benzo[g,h,i]perylene	54.57	276	3706058	11776.78 ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.37	191	838594	8761.02 ng/mL	100
92) Hopane (T19)	52.37	191	838594	8765.72 ng/mL	100

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JANUARY06\JAN04\
Data File : P17286.D
Acq On : 5 Jan 2006 2:00 am
Operator : AC
Sample : I1010407
Misc : L7
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 07:00:27 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 06:40:19 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\January06\JAN04\
Data File : P17294.D
Acq On : 5 Jan 2006 8:19 am
Operator : AC
Sample : Q1010402
Misc : ICC
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 11:04:09 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 08:21:53 2006
Response via : Initial Calibration

MB 1-5-06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	107	0.00
2	t	Decalin	0.391	0.000#	100.0#	0#	-16.36#
3	A1	trans-Decalin	0.432	0.000#	100.0#	0#	-16.36#
4	t	cis-Decalin	0.325	0.000#	100.0#	0#	-17.58#
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.29#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.62#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-22.10#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.49#
9	A1	Naphthalene	2.553	2.387	6.5	100	0.00
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.47#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.32#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.66#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.43#
14	s	2-Methylnaphthalene-d10	1.072	1.084	-1.1	110	0.00
15	t	2-Methylnaphthalene	1.617	1.475	8.8	99	0.00
16	t	1-Methylnaphthalene	1.522	1.465	3.7	104	0.00
17	A1	Benzothiophene	2.278	0.000#	100.0#	0#	-19.99#
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-22.03#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.51#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.48#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.25#
22	t	Biphenyl	2.010	1.938	3.6	104	0.00
23	t	2,6-Dimethylnaphthalene	1.342	1.321	1.6	107	0.00
24	t	Dibenzofuran	2.258	2.216	1.9	106	0.00
25	t	Acenaphthylene	2.448	2.311	5.6	102	0.00
26	t	Acenaphthene	1.521	1.451	4.6	104	0.00
27	t	2,3,5-Trimethylnaphthalene	1.204	1.207	-0.2	110	0.00
28	A1	Fluorene	1.706	1.559	8.6	100	0.00
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.19#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.38#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.21#
32	A1	Dibenzothiophene	2.515	0.000#	100.0#	0#	-32.13#
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.91#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.26#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.68#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.34#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.92#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.61#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.42#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.31#
41	A1	Phenanthrene	2.529	2.268	10.3	98	0.00
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.59#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.70#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.86#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-35.05#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-35.15#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-35.05#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.87#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.65#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.72#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\January06\JAN04\
Data File : P17294.D
Acq On : 5 Jan 2006 8:19 am
Operator : AC
Sample : Q1010402
Misc : ICC
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 11:04:09 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 08:21:53 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.91#
52	T	Retene	0.529	0.000#	100.0#	0#	-39.63#
53	t	Anthracene	2.340	2.177	7.0	102	0.00
54	t	Carbazole	2.166	0.000#	100.0#	0#	-33.46#
55	t	1-Methylphenanthrene	1.732	1.711	1.2	108	0.00
56	A1	Fluoranthene	2.693	2.448	9.1	99	0.00
57	T	Benzo(b)fluorene	1.572	0.000#	100.0#	0#	-39.93#
58	s	Pyrene-d10	2.204	2.214	-0.5	108	0.00
59	A1	Pyrene	2.739	2.608	4.8	103	0.00
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.68#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.50#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.52#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.88#
64	A1	Naphthobenzothiophene	2.562	0.000#	100.0#	0#	-42.15#
65	A2	Naphthobenzothiophene-2,1-D	2.562	0.000#	100.0#	0#	-42.15#
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.49#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.79#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.56#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.58#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.19#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.28#
72	i	Chrysene-d12	1.000	1.000	0.0	113	0.00
73	t	Benz[a]anthracene	1.522	1.531	-0.6	116	0.00
74	A1	Chrysene	1.555	1.468	5.6	108	0.00
75	A2	Chrysene/Triphenylene	1.555	1.468	5.6	108	0.00
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.72#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-46.81#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-47.07#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.57#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-49.16#
81	s	Benzo[b]fluoranthene-d12	0.996	1.108	-11.2	127	0.00
82	t	Benzo[b]fluoranthene	1.563	1.580	-1.1	115	0.00
83	A1	Benzo[k]fluoranthene	1.626	1.654	-1.7	114	0.00
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.58#
85	t	Benzo[e]pyrene	1.513	1.559	-3.0	119	0.00
86	t	Benzo[a]pyrene	1.497	1.467	2.0	113	0.00
87	t	Perylene	1.464	1.608	-9.8	127	0.00
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.542	-17.0	146	0.01
89	t	Dibenz[a,h]anthracene	1.343	1.499	-11.6	128	0.00
90	t	Benzo[g,h,i]perylene	1.518	1.591	-4.8	121	-0.01
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.000#	100.0#	0#	-52.36#
92	A2	Hopane (T19)	0.439	0.000#	100.0#	0#	-52.36#
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.81#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.54#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-43.03#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.35#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-44.09#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.18#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.48#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\January06\JAN04\
Data File : P17294.D
Acq On : 5 Jan 2006 8:19 am
Operator : AC
Sample : Q1010402
Misc : ICC
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 11:04:09 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 08:21:53 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.64#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-47.18#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.37#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.51#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.61#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.86#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-49.07#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.27#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-50.09#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.97#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-51.08#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-51.22#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.76#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-52.18#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-53.07#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-54.20#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.44#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.80#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-56.20#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.99#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.64#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.72#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.63#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.95#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-65.28#
125	SA1	5B(H)Cholane - Surr	0.196	0.202	-3.1	121	0.00
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.31#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.74#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.43#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.31#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.83#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.13#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.39#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.55#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.28#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.63#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.57#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.40#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.49#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.73#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.81#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.89#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.94#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN04\
Data File : P17294.D
Acq On : 5 Jan 2006 8:19 am
Operator : AC
Sample : Q1010402
Misc : ICC
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 11:04:09 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 08:21:53 2006
Response via : Initial Calibration

MS 1/5/06

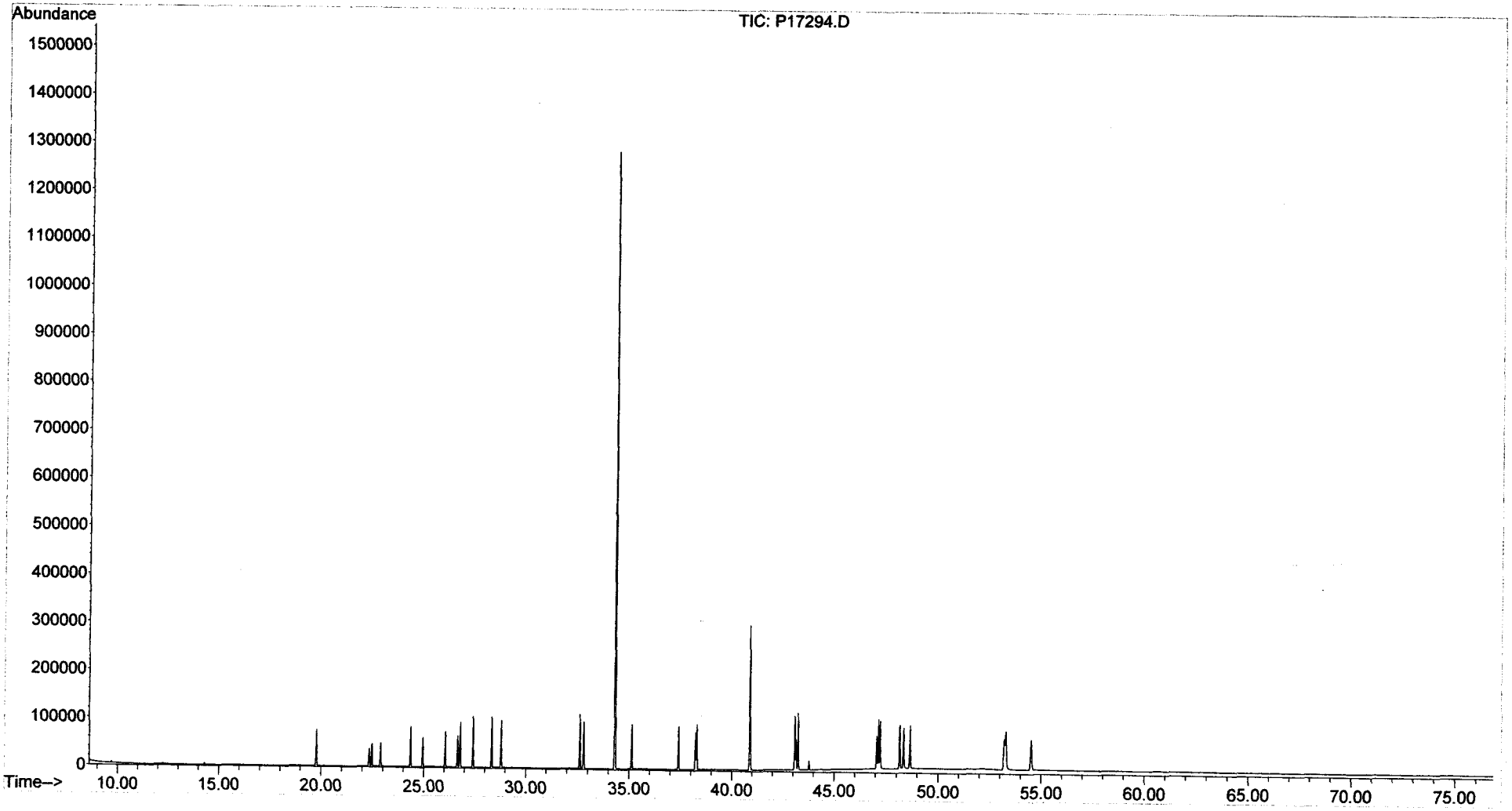
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.67	164	76009	500.00	ng/mL	0.00
72) Chrysene-d12	43.14	240	123105	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.34	152	82356	505.41	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 50.54%			
58) Pyrene-d10	38.22	212	168248	502.19	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 50.22%			
81) Benzo[b]fluoranthene-d12	47.05	264	136420	556.48	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 55.65%			
125) 5B(H)Cholane - Surr	43.78	217	24889	514.53	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 51.45%			
Target Compounds						Qvalue
9) Naphthalene	19.77	128	181434	467.41	ng/mL#	100
15) 2-Methylnaphthalene	22.47	142	112145	456.36	ng/mL#	100
16) 1-Methylnaphthalene	22.89	142	111328	481.22	ng/mL#	100
22) Biphenyl	24.35	154	147302	482.15	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.96	156	100381	492.21	ng/mL#	100
24) Dibenzofuran	27.43	168	168442	490.79	ng/mL	98
25) Acenaphthylene	26.05	152	175623	471.86	ng/mL#	100
26) Acenaphthene	26.79	153	110286	477.03	ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.35	170	91737	501.09	ng/mL	99
28) Fluorene	28.81	166	118511	457.07	ng/mL	100
41) Phenanthrene	32.62	178	172384	448.36	ng/mL	100
53) Anthracene	32.81	178	165450	465.11	ng/mL	100
55) 1-Methylphenanthrene	35.14	192	130049	494.00	ng/mL	99
56) Fluoranthene	37.40	202	186103	454.61	ng/mL	100
59) Pyrene	38.28	202	198222	476.09	ng/mL	100
73) Benz[a]anthracene	43.08	228	188511	503.04	ng/mL	99
74) Chrysene	43.24	228	180758	472.06	ng/mL	99
75) Chrysene/Triphenylene	43.24	228	180758	472.06	ng/mL	99
82) Benzo[b]fluoranthene	47.14	252	194457	505.26	ng/mL	99
83) Benzo[k]fluoranthene	47.23	252	203645	508.62	ng/mL	99
85) Benzo[e]pyrene	48.16	252	191976	515.21	ng/mL	100
86) Benzo[a]pyrene	48.34	252	180573	489.79	ng/mL	99
87) Perylene	48.65	252	198010	549.45	ng/mL	100
88) Indeno[1,2,3-cd]pyrene	53.21	276	189851m	585.17	ng/mL	
89) Dibenz[a,h]anthracene	53.29	278	184491	557.88	ng/mL	99
90) Benzo[g,h,i]perylene	54.51	276	195830	523.81	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN04\
Data File : P17294.D
Acq On : 5 Jan 2006 8:19 am
Operator : AC
Sample : Q1010402
Misc : ICC
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 11:04:09 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 05 08:21:53 2006
Response via : Initial Calibration



Sequence Name: C:\MSDChem\1\sequence\S3011101.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\JANUARY06\JAN11\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

6 deg/min Runs. Posted 1/18/06 MS w/method B10301111.

Line			Sample Name/Misc Info		
1)	DualTwr				
2)	SepGC1				
3)	RearSamp	51	P34759	FRBIO3B	alk std
4)	Sample	1	P34760	FRBIO3B	pah std
5)	RearSamp	51	P34761	FRBIO3B	alk std
6)	Sample	1	P34762	FRBIO3B	pah std
7)	Sample	2	P34763	FRBIO3B	i3011101
8)	Sample	3	P34764	FRBIO3B	i3011102
9)	Sample	4	P34765	FRBIO3B	i3011103
10)	Sample	5	P34766	FRBIO3B	i3011104
11)	Sample	6	P34767	FRBIO3B	i3011105
12)	Sample	7	P34768	FRBIO3B	i3011106
13)	Sample	8	P34769	FRBIO3B	i3011107
14)	Sample	9	P34770	FRBIO3B	ANS3011101
15)	Sample	10	P34771	FRBIO3B	DCM
16)	Sample	11	P34772	FRBIO3B	DCM
17)	Sample	12	P34773	FRBIO3B	i3011108
18)	Sample	13	P34774	FRBIO3B	i3011109
19)	Sample	14	P34775	FRBIO3B	DCM
20)	Sample	15	P34776	FRBIO3B	SS122105B14
21)	Sample	16	P34777	FRBIO3B	0512105-01
22)	Sample	17	P34778	FRBIO3B	0512105-02
23)	Sample	18	P34779	FRBIO3B	0512105-03
24)	Sample	19	P34780	FRBIO3B	0512105-04
25)	Sample	20	P34781	FRBIO3B	0512105-05
26)	Sample	21	P34782	FRBIO3B	0512105-06
27)	Sample	22	P34783	FRBIO3B	0512105-07
28)	Sample	23	P34784	FRBIO3B	0512105-08
29)	Sample	24	P34785	FRBIO3B	0512105-08D
30)	Sample	25	P34786	FRBIO3B	C3011101
31)	Sample	26	P34787	FRBIO3B	SS122105B16
32)	Sample	27	P34788	FRBIO3B	0512110-01
33)	Sample	28	P34789	FRBIO3B	0512110-02
34)	Sample	29	P34790	FRBIO3B	0512110-03
35)	Sample	30	P34791	FRBIO3B	0512110-04
36)	Sample	31	P34792	FRBIO3B	0512110-05
37)	Sample	32	P34793	FRBIO3B	0512110-06
38)	Sample	33	P34794	FRBIO3B	0512110-07
39)	Sample	34	P34795	FRBIO3B	0512110-08
40)	Sample	35	P34796	FRBIO3B	0512110-09
41)	Sample	36	P34797	FRBIO3B	0512110-10
42)	Sample	37	P34798	FRBIO3B	C3011102
43)	Sample	38	P34799	FRBIO3B	0512110-11

B1030111.M cw 1/24/06

SS012506AWS01 MS 1/25/06

no quant - just post.

Sequence Name: C:\MSDChem\1\sequence\S3011101.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	39	P34800	FRBIO3B	0512110-11D
45)	Sample	40	P34801	FRBIO3B	0512110-12
46)	Sample	41	P34802	FRBIO3B	0512110-13
47)	Sample	42	P34803	FRBIO3B	0512110-14
48)	Sample	43	P34804	FRBIO3B	C3011103

CW 2/8/06

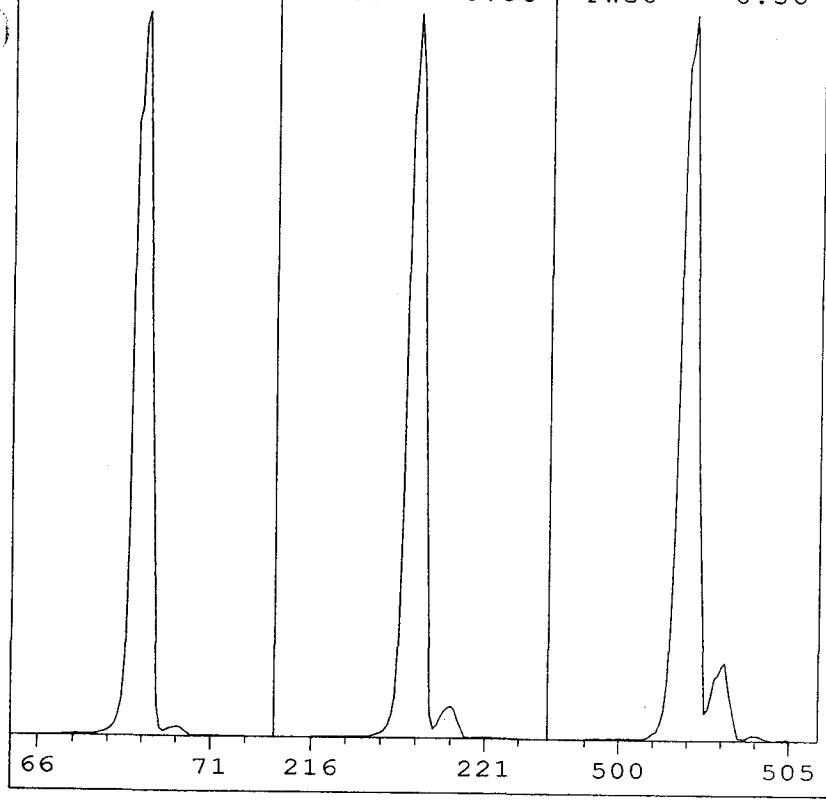
5973

Wed Jan 11 12:32:26 2006
C:\MSDCHEM\1\5973N\PFTBA.U

1/11/06

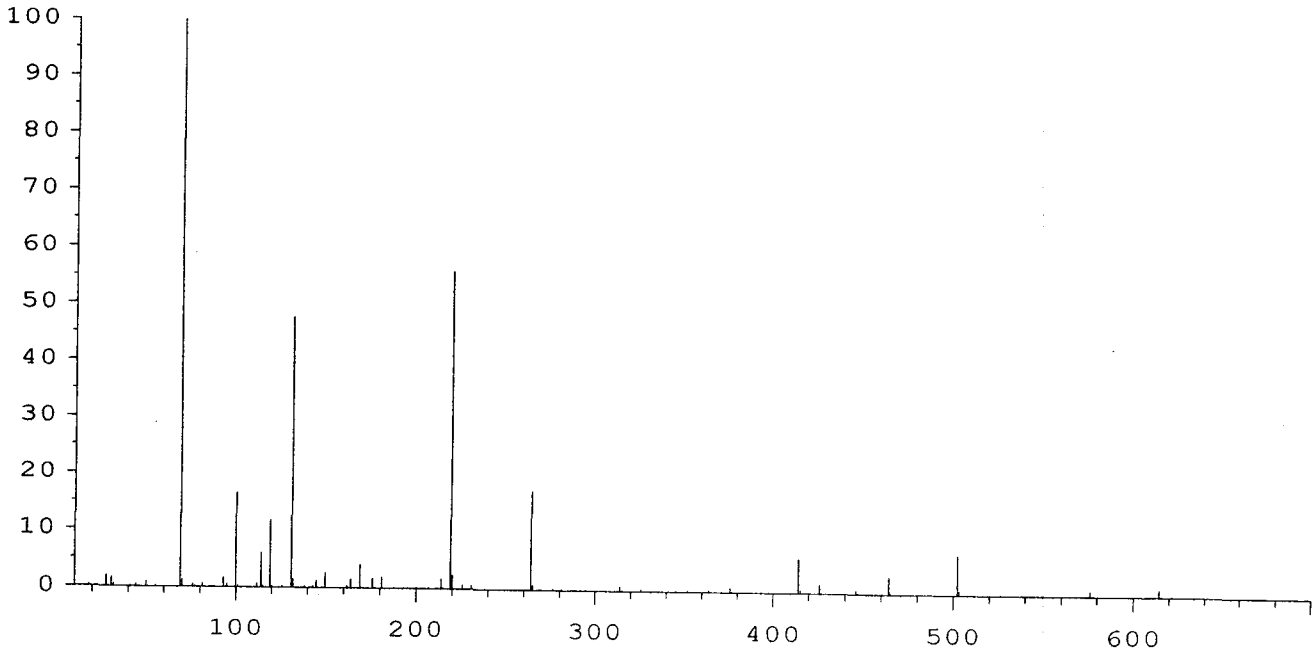
Instrument: PAH-3

Mass	69.10	Mass	219.00	Mass	502.10
Ab	354062	Ab	198044	Ab	23388
Pw50	0.58	Pw50	0.56	Pw50	0.56



Ion Pol	POS	MassGain	63
		MassOffs	-12
Emission	34.6	AmuGain	2443
ElEnrgy	69.9	AmuOffs	127
Filament	1	Wid219	-0.043
		DC Pol	POS
Repeller	34.81		
IonFcus	90.2	HEDEnab	ON
EntLens	0.0	EMVolts	1588
EntOffs	VAR		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	Foreline	48
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
177 peaks Base: 69.00 Abundance: 304000



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	304000	100.00	70.00	3780	1.24
219.00	170112	55.96	220.00	7509	4.41
502.00	20984	6.90	503.00	2191	10.44

TARGET MASS:	50	69	131	219	414	502
DYNAMIC ENT OFFSET:	15.3	18.1	18.3	19.3	19.1	21.3
TARGET ABUND(%):	1.0	100.0	45.0	55.0	5.0	6.0
ACTUAL TUNE ABUND(%):	1.0	100.0	47.8	56.0	5.9	6.9

RESPONSE FACTOR REPORT PAH3

METHOD: O: FORENSICS\METHODS\PAH3\JAN06\BIO30105.M

INITIAL CALIBRATION

MS 1-13-06

CALIBRATION FILES	P34773.D	P34774.D	P34765.D	P34766.D	P34767.D	P34768.D	P34769.D		
LEVEL	10	25	100	500	1250	5000	10000	AVERAG	%RSD
COMPOUND									
Chrysene-d12	ISTD								
17a(H),21B(H)-hopane - C30H52	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
Hopane (T19)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
C23 Tricyclic Terpane (T4)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
C24 Tricyclic Terpane (T5)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
C25 Tricyclic Terpane (T6)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
C24 Tetracyclic Terpane (T6a)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
C26 Tricyclic Terpane-22S (T6b)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
C26 Tricyclic Terpane-22R (T6c)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
C28 Tricyclic Terpane-22S (T7)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
C28 Tricyclic Terpane-22R (T8)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
C29 Tricyclic Terpane-22S (T9)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
C29 Tricyclic Terpane-22R (T10)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
18a-22,29,30-Trisnorneohopane-TS (T11)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
C30 Tricyclic Terpane-22S	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
C30 Tricyclic Terpane-22R	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
17a(H)-22,29,30-Trisnorhopane-TM (T12)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
17a/b,21b/a 28,30-Bisnorhopane (T14a)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
17a(H),21b(H)-25-Norhopane (T14b)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
30-Norhopane (T15)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
18a(H)-30-Norneohopane-C29Ts (T16)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
17a(H)-Diahopane (X)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
30-Normoretane (T17)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
18a(H)&18b(H)-Oleananes (T18)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
Moretane (T20)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
30-Homohopane-22S (T21)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
30-Homohopane-22R (T22)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
30,31-Bishomohopane-22S (T26)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
30,31-Bishomohopane-22R (T27)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
30,31-Trishomohopane-22S (T30)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
30,31-Trishomohopane-22R (T31)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
Tetrakishomohopane-22S (T32)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
Tetrakishomohopane-22R (T33)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
Pentakishomohopane-22S (T34)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
Pentakishomohopane-22R (T35)	0.433	0.429	0.463	0.375	0.477	0.425	0.407	0.430	7.93
5B(H)Cholane - Surr	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
13b(H),17a(H)-20S-Diacholestane (S4)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
13b(H),17a(H)-20R-Diacholestane (S5)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
13b,17a-20S-Methyldiacholestane (S8)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
14a(H),17a(H)-20S-Cholestane (S12)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
14a(H),17a(H)-20R-Cholestane (S17)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
13b,17a-20R-Ethyldiacholestane (S18)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
13a,17b-20S-Ethyldiacholestane (S19)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
14a,17a-20S-Methylcholestane (S20)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
14a,17a-20R-Methylcholestane (S24)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
14a(H),17a(H)-20S-Ethylcholestane (S25)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
14a(H),17a(H)-20R-Ethylcholestane (S28)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
14b(H),17b(H)-20R-Cholestane (S14)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
14b(H),17b(H)-20S-Cholestane (S15)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20

Rerun 1/24/06

RESPONSE FACTOR REPORT PAH3									
METHOD: O: FORENSICS\METHODS\PAH3\JAN06\BIO30105.M									
INITIAL CALIBRATION									
CALIBRATION FILES	P34773.D	P34774.D	P34765.D	P34766.D	P34767.D	P34768.D	P34769.D		
LEVEL	10	25	100	500	1250	5000	10000	AVERAG	%RSD
COMPOUND									
14b,17b-20R-Methylcholestane (S22)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
14b,17b-20S-Methylcholestane (S23)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
14b(H),17b(H)-20R-Ethylcholestane (S26)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20
14b(H),17b(H)-20S-Ethylcholestane (S27)	0.195	0.187	0.213	0.207	0.215	0.229	0.225	0.210	7.20

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34773.D
Acq On : 12 Jan 2006 11:44 am
Operator : AC
Sample : i3011108
Misc : BIO CAL 6dm L1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 13 06:19:19 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 07:12:11 2006
Response via : Initial Calibration

AMS 1-13-06

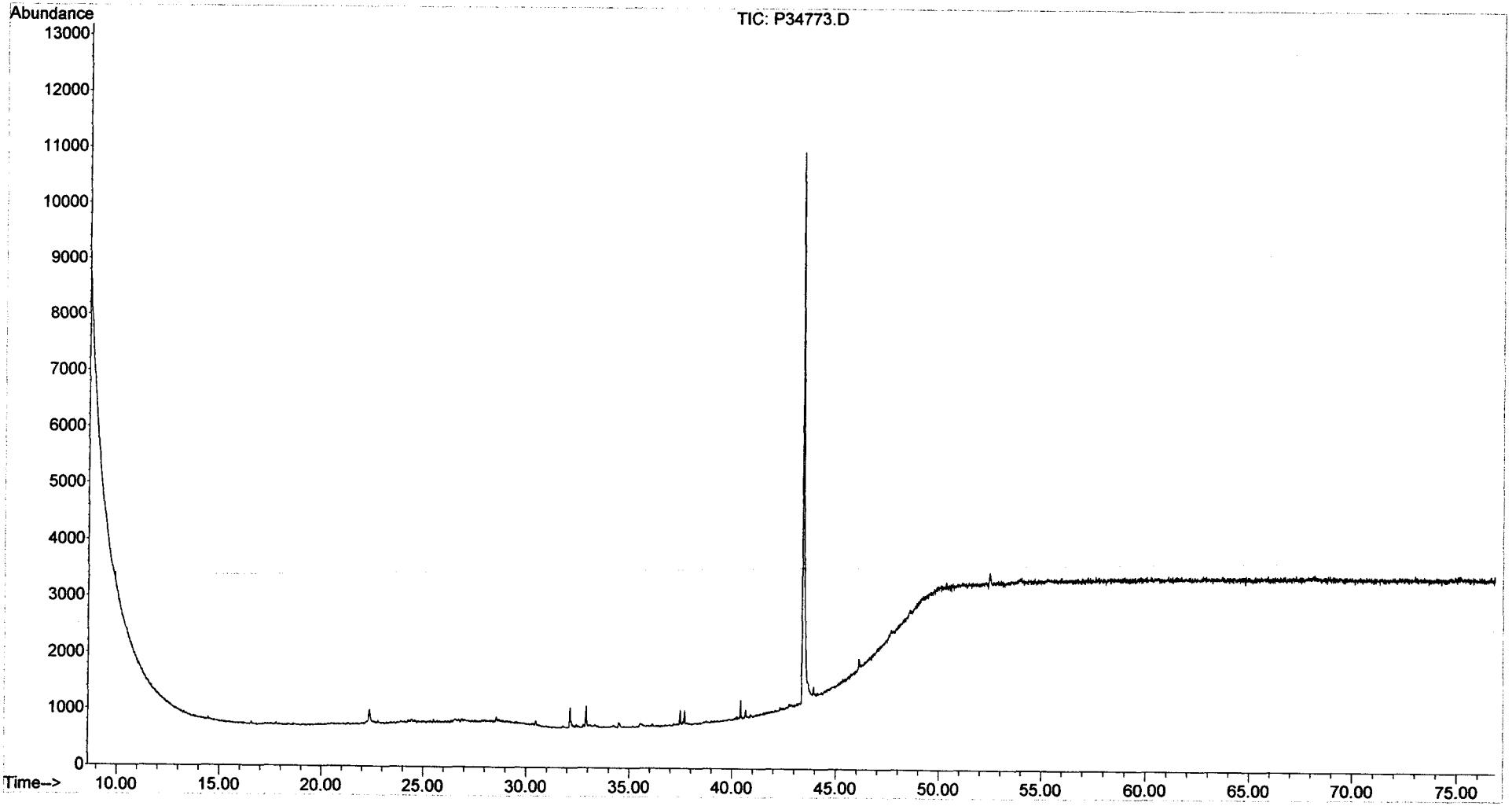
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00 ng/mL	-30.25
64) Chrysene-d12	43.41	240	50898m	500.00 ng/mL	0.06
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	= 0.00%#	
50) Pyrene-d10	0.00	212	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	= 0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	= 0.00%#	
117) 5B(H)Cholane - Surr	43.92	217	199m	9.14 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	= 0.91%#	
Target Compounds					Qvalue
83) 17a(H),21B(H)-hopane - C30	52.50	191	441m	9.86 ng/mL	
84) Hopane (T19)	52.50	191	446m	9.97 ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34773.D
Acq On : 12 Jan 2006 11:44 am
Operator : AC
Sample : i3011108
Misc : BIO CAL 6dm L1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 13 06:19:19 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 07:12:11 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34774.D
Acq On : 12 Jan 2006 1:15 pm
Operator : AC
Sample : i3011109
Misc : BIO CAL 6dm L2
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 13 06:20:34 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 14:54:25 2006
Response via : Initial Calibration

MG 1/13/06

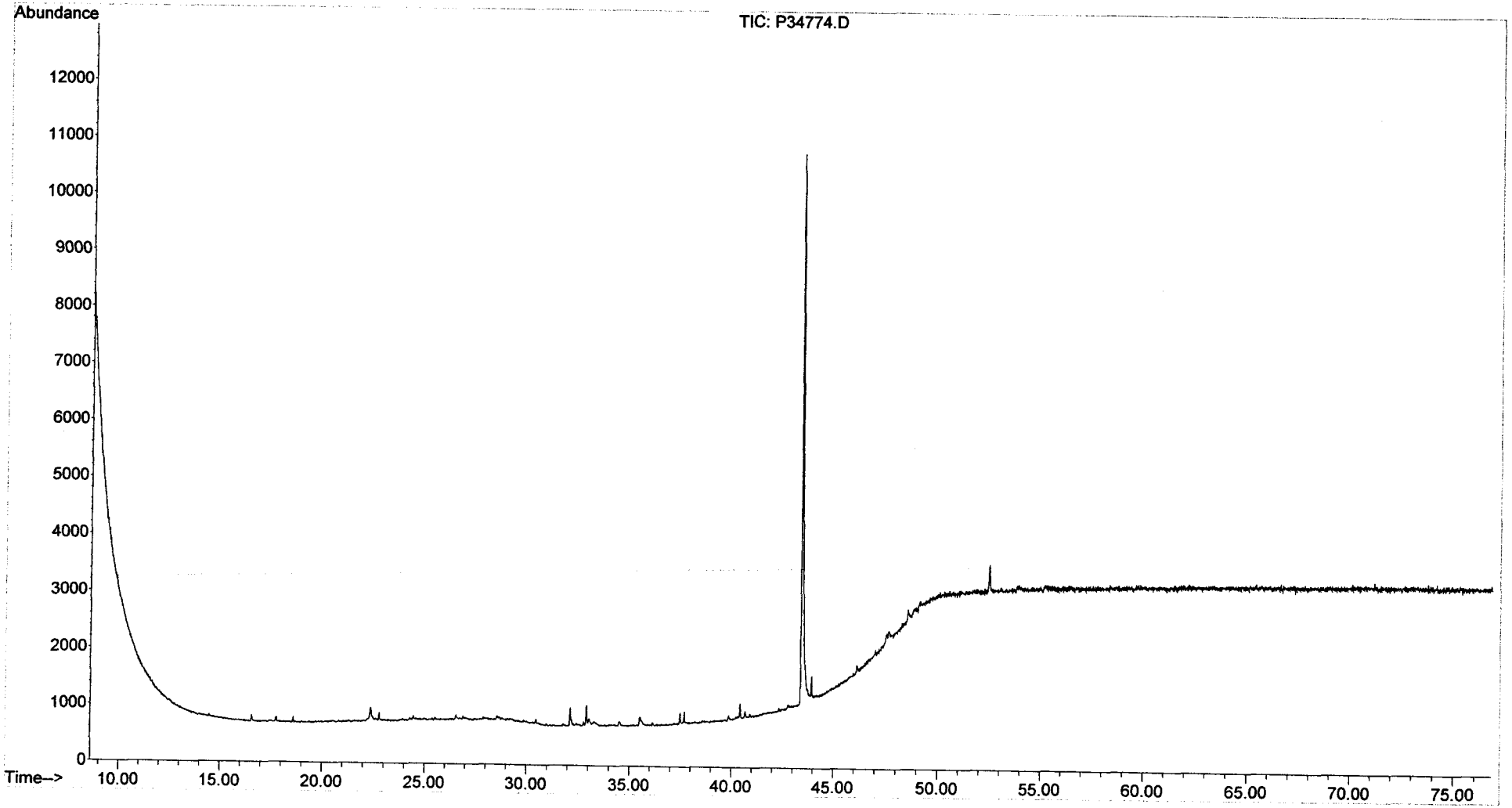
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.41	240	49829	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#		
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#		
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#		
117) 5B(H)Cholane - Surr	43.92	217	466m	21.81	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery =	2.18%#		
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.49	191	1068m	24.77	ng/mL	
84) Hopane (T19)	52.49	191	1040m	23.00	ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34774.D
Acq On : 12 Jan 2006 1:15 pm
Operator : AC
Sample : i3011109
Misc : BIO CAL 6dm L2
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 13 06:20:34 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 14:54:25 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34765.D
Acq On : 11 Jan 2006 7:02 pm
Operator : AC
Sample : i3011103
Misc : BIO CAL 6dm L3
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 12 07:09:28 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 06:50:43 2006
Response via : Initial Calibration

MS 1-13-06

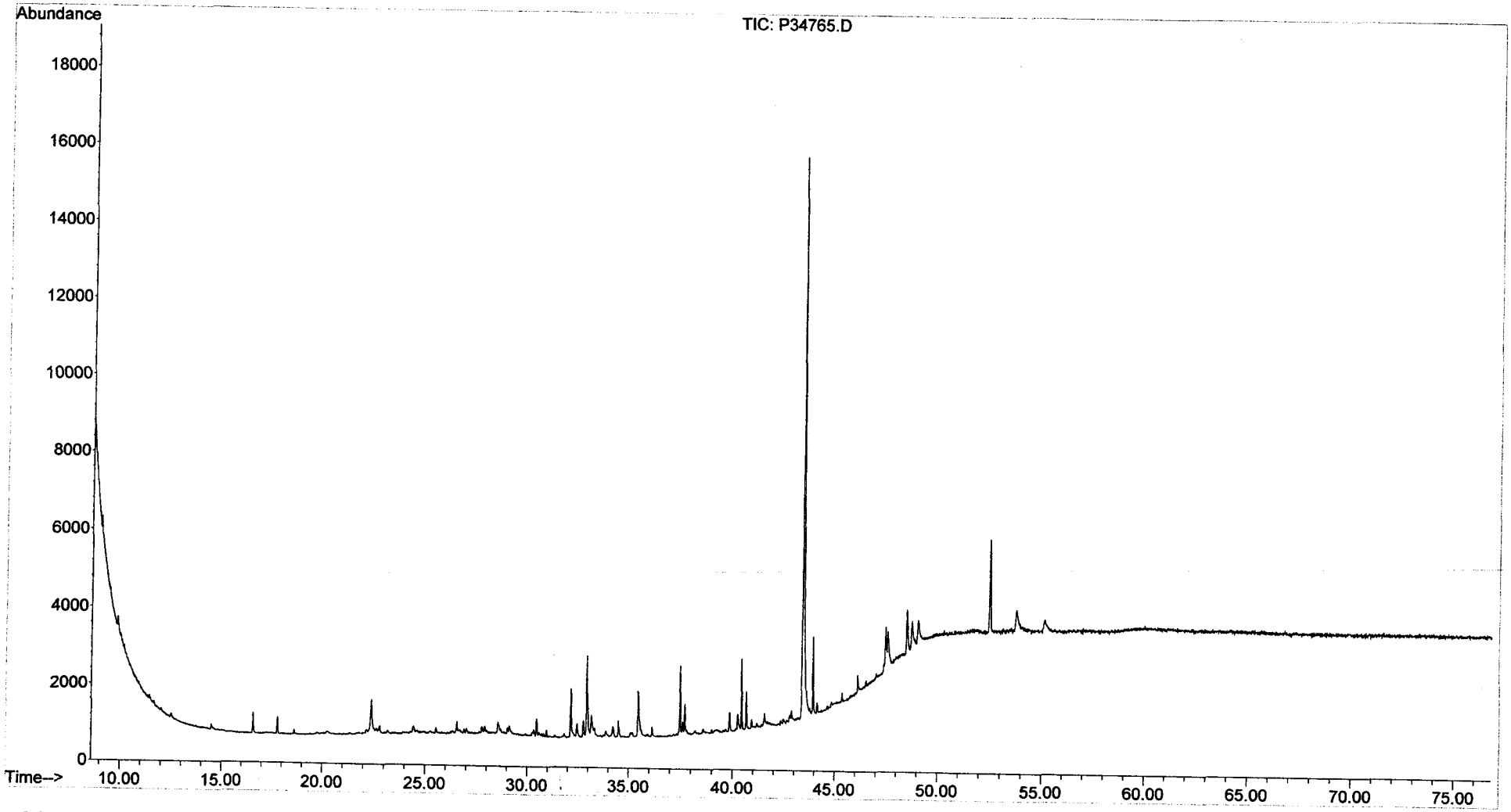
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.40	240	63328	500.00	ng/mL	0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.92	217	2693	91.76	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 9.18%#			
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.49	191	5860m	91.41	ng/mL	
84) Hopane (T19)	52.49	191	5878m	91.69	ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34765.D
Acq On : 11 Jan 2006 7:02 pm
Operator : AC
Sample : i3011103
Misc : BIO CAL 6dm L3
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 12 07:09:28 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 06:50:43 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34766.D
Acq On : 11 Jan 2006 8:32 pm
Operator : AC
Sample : i3011104
Misc : BIO CAL 6dm L4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 12 07:02:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 06:50:43 2006
Response via : Initial Calibration

MS 1-13-06

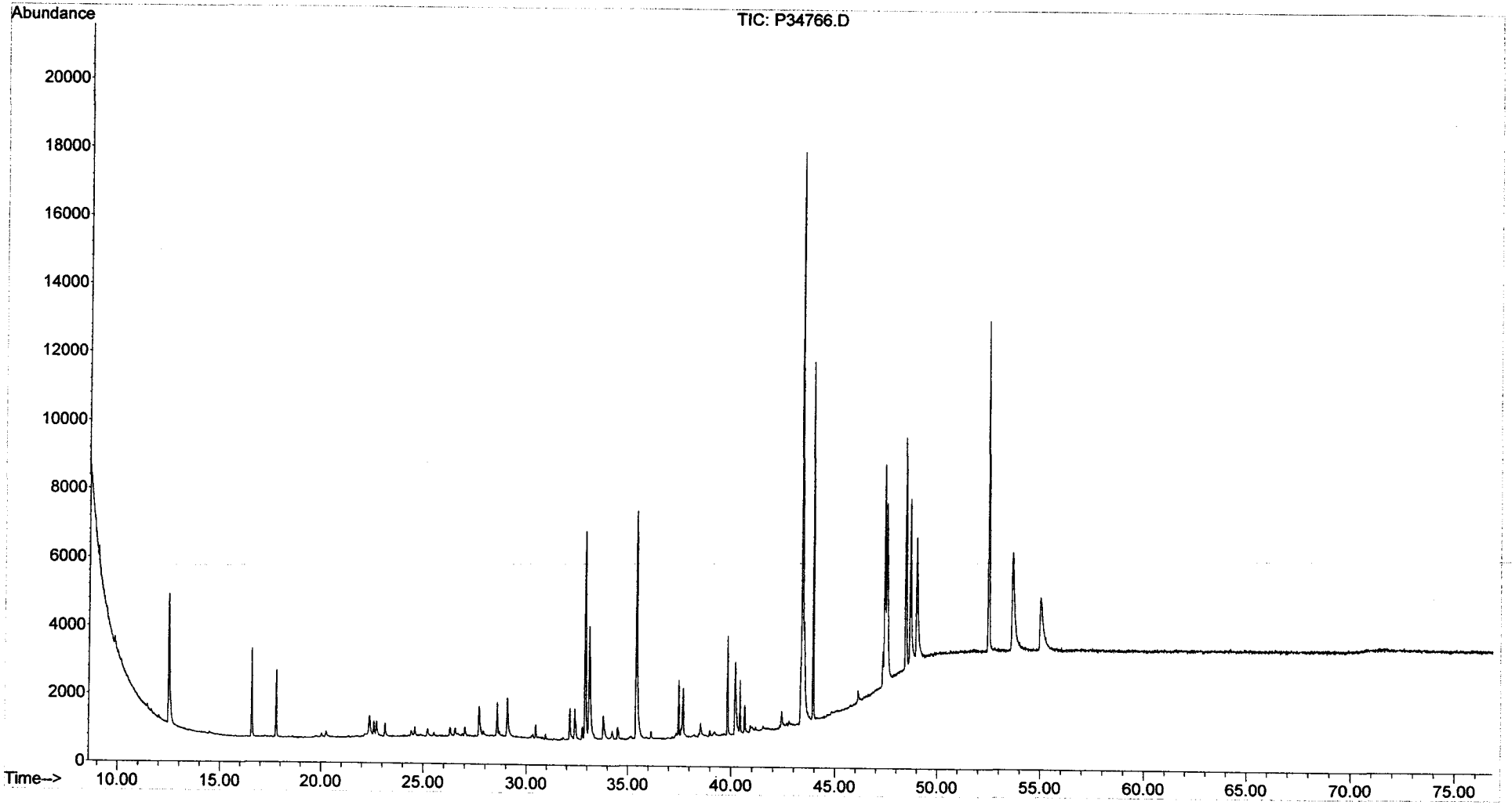
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.38	240	61149	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range	50 - 130	Recovery	=	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range	50 - 130	Recovery	=	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range	50 - 130	Recovery	=	0.00%#	
117) 5B(H)Cholane - Surr	43.92	217	12651	446.44	ng/ml	0.00
Spiked Amount 1000.000	Range	50 - 130	Recovery	=	44.64%#	
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.49	191	22905	370.02	ng/mL#	86
84) Hopane (T19)	52.49	191	22905	370.02	ng/mL#	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34766.D
Acq On : 11 Jan 2006 8:32 pm
Operator : AC
Sample : i3011104
Misc : BIO CAL 6dm L4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 12 07:02:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 06:50:43 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34767.D
Acq On : 11 Jan 2006 10:02 pm
Operator : AC
Sample : i3011105
Misc : BIO CAL 6dm L5
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 07:03:20 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 06:50:43 2006
Response via : Initial Calibration

CMS 1-13-06

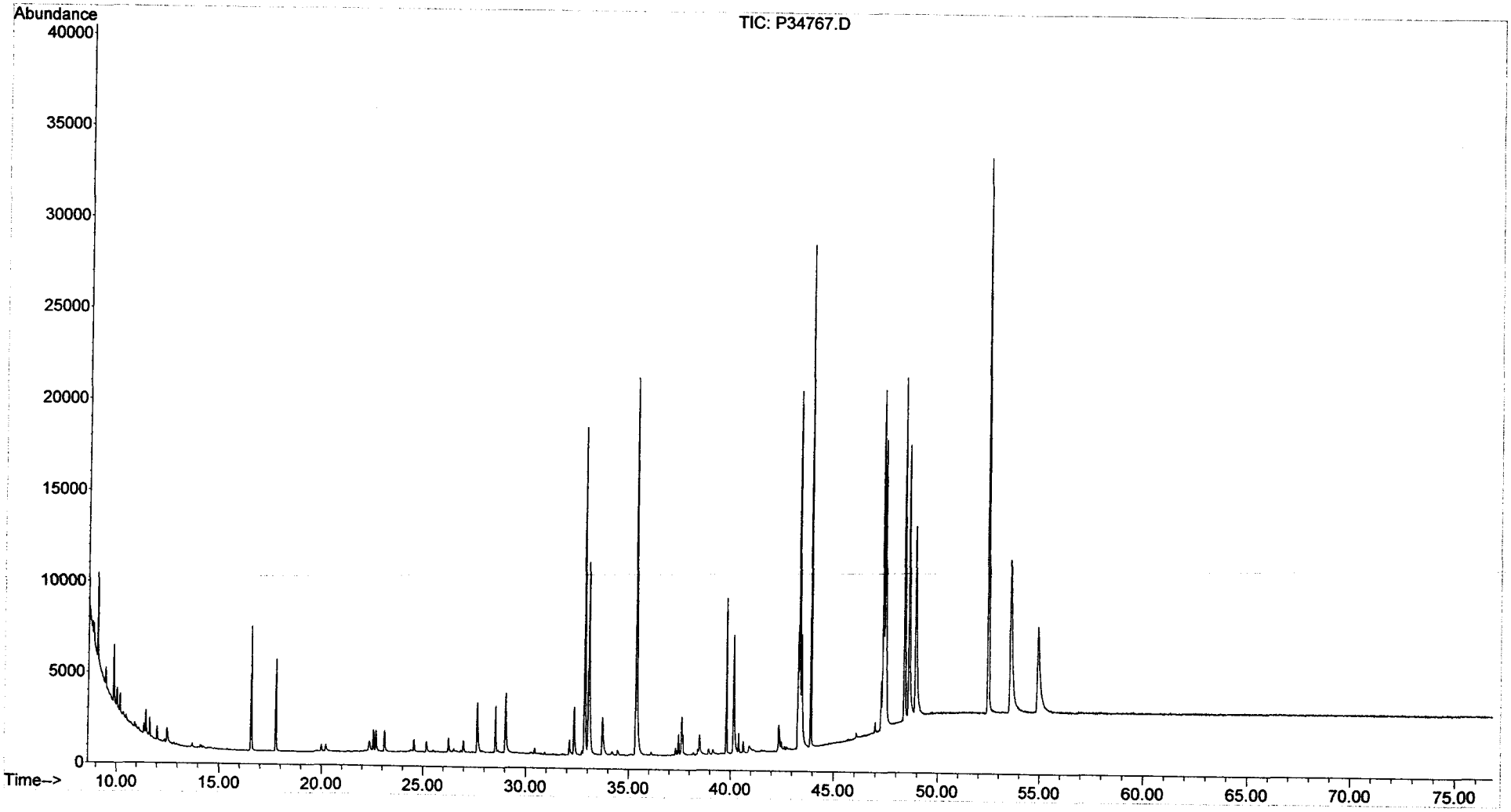
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.36	240	62167	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.92	217	33352	1157.67	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 115.77%			
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.49	191	74177	1178.67	ng/mL#	84
84) Hopane (T19)	52.49	191	74177	1178.67	ng/mL#	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34767.D
Acq On : 11 Jan 2006 10:02 pm
Operator : AC
Sample : i3011105
Misc : BIO CAL 6dm L5
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 12 07:03:20 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 06:50:43 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34768.D
Acq On : 11 Jan 2006 11:32 pm
Operator : AC
Sample : i3011106
Misc : BIO CAL 6dm L6
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 07:04:37 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 06:50:43 2006
Response via : Initial Calibration

MS 1-13-06

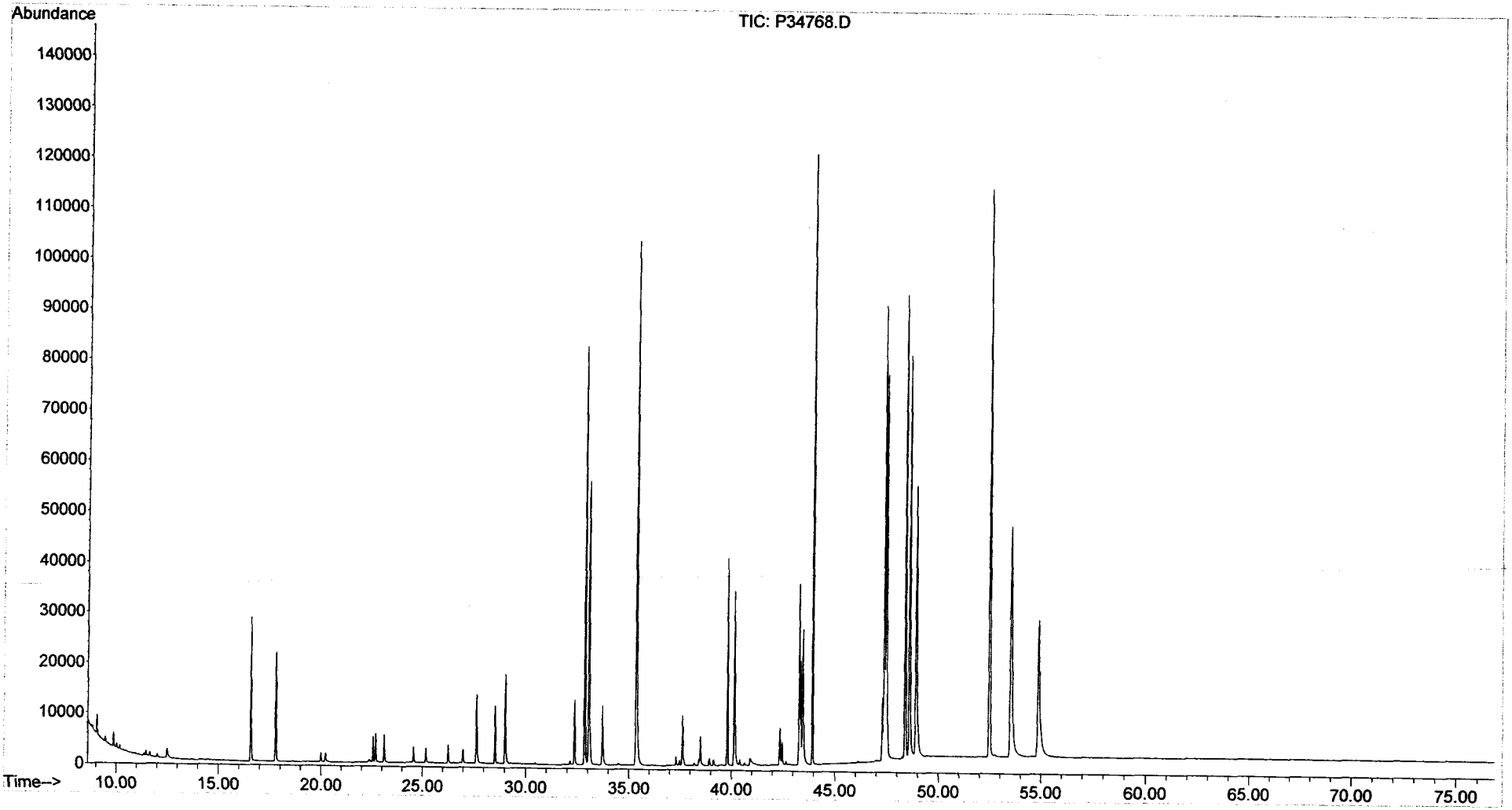
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.35	240	62301	500.00	ng/mL	-0.03
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.92	217	142826	4946.93	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 494.69%#			
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.49	191	264591	4195.30	ng/mL#	83
84) Hopane (T19)	52.49	191	264591	4195.30	ng/mL#	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34768.D
Acq On : 11 Jan 2006 11:32 pm
Operator : AC
Sample : i3011106
Misc : BIO CAL 6dm L6
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 12 07:04:37 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 06:50:43 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34769.D
Acq On : 12 Jan 2006 1:01 am
Operator : AC
Sample : i3011107
Misc : BIO CAL 6dm L7
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 12 07:05:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 06:50:43 2006
Response via : Initial Calibration

MS 1-13-06

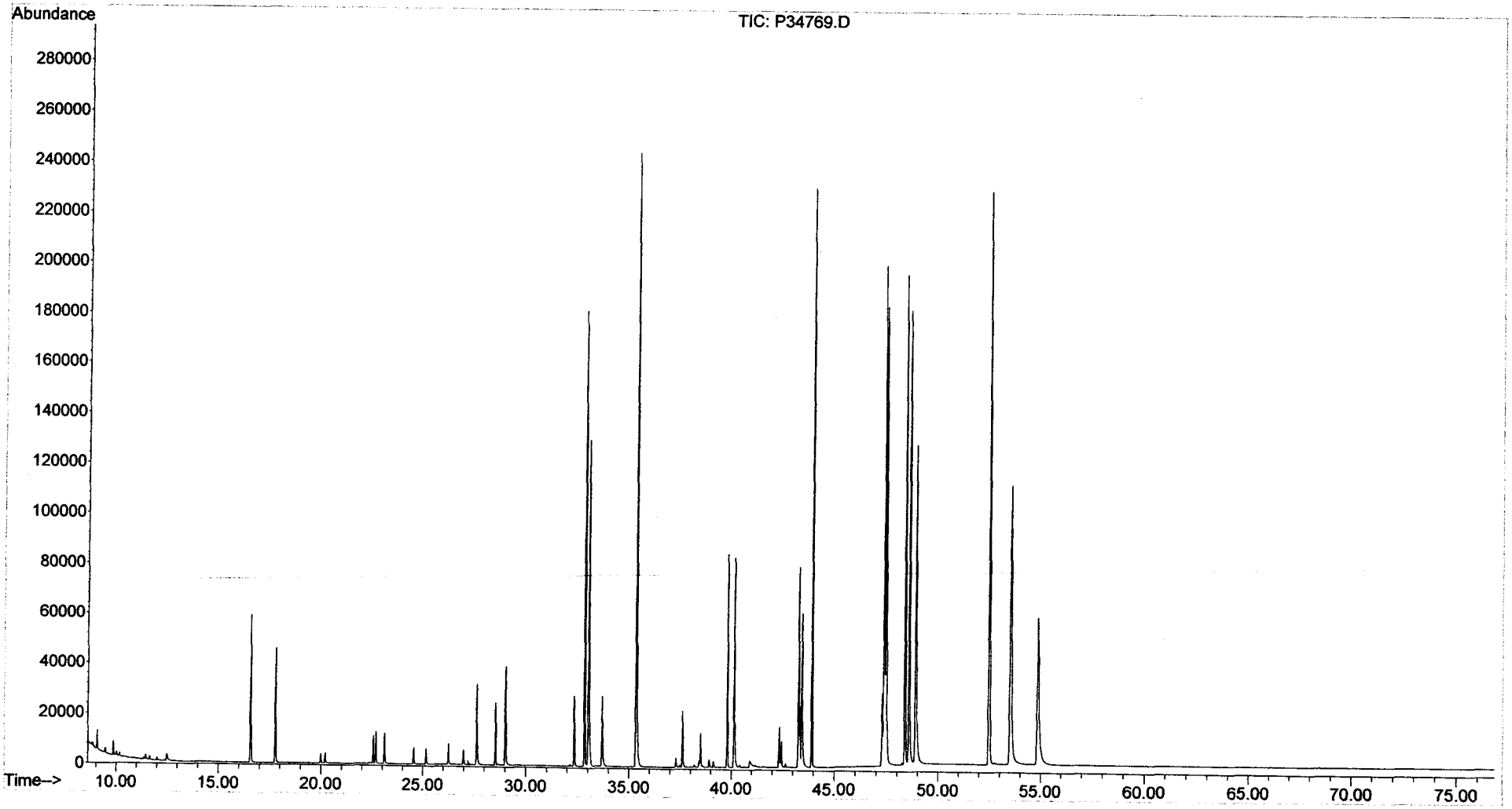
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.34	240	64774	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.93	217	291580	9713.60	ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 971.36%#			
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.49	191	526755	8033.25	ng/mL#	83
84) Hopane (T19)	52.49	191	526755	8033.25	ng/mL#	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH3\JANUARY06\JAN11\
Data File : P34769.D
Acq On : 12 Jan 2006 1:01 am
Operator : AC
Sample : i3011107
Misc : BIO CAL 6dm L7
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 12 07:05:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jan 12 06:50:43 2006
Response via : Initial Calibration



Sequence Name: C:\MSDChem\1\sequence\S2020901.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\FEBRUARY06\FEB09\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

2/13/06.

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	1	P28188	FRBIO2B	DCM
2)	Sample	2	P28189	FRBIO2B	I2020901
3)	Sample	3	P28190	FRBIO2B	I2020902
4)	Sample	4	P28191	FRBIO2B	I2020903
5)	Sample	5	P28192	FRBIO2B	I2020904
6)	Sample	6	P28193	FRBIO2B	I2020905
7)	Sample	7	P28194	FRBIO2B	I2020906
8)	Sample	8	P28195	FRBIO2B	ANS2020901
9)	Sample	9	P28196	FRBIO2B	DCM
10)	Sample	10	P28197	FRBIO2B	TS020106B10
11)	Sample	11	P28198	FRBIO2B	0601086-01
12)	Sample	12	P28199	FRBIO2B	0601086-02
13)	Sample	13	P28200	FRBIO2B	0601086-03
14)	Sample	14	P28201	FRBIO2B	0601086-04
15)	Sample	99	P28201A	FRBIO2B	DCM
16)	Sample	100	P28201B	FRBIO2B	ANS2020902
17)	Sample	15	P28202	FRBIO2B	0601086-05
18)	Pause				
19)	Sample	16	P28203	FRBIO2B	0601086-06
20)	Pause				
21)	Sample	17	P28204	FRBIO2B	0601086-07
22)	Sample	18	P28205	FRBIO2B	0601086-08
23)	Sample	19	P28206	FRBIO2B	0601086-09
24)	Sample	20	P28207	FRBIO2B	0601086-09D
25)	Sample	21	P28208	FRBIO2B	C2021001 PASS
26)	Sample	22	P28209	FRBIO2B	DCM
27)	Sample	23	P28210	FRBIO2B	DCM
28)	Sample	24	P28211	FRBIO2B	SS020606B06
29)	Sample	25	P28212	FRBIO2B	SS020106B11
30)	Sample	26	P28213	FRBIO2B	0601070-04
31)	Sample	27	P28214	FRBIO2B	0601070-06
32)	Sample	28	P28215	FRBIO2B	0602004-01
33)	Sample	29	P28216	FRBIO2B	0602004-02
34)	Sample	30	P28217	FRBIO2B	0602004-03
35)	Sample	31	P28218	FRBIO2B	0602004-04
36)	Sample	32	P28219	FRBIO2B	C2021002 PASS
37)	Sample	33	P28220	FRBIO2B	DCM
38)	Sample	34	P28221	FRBIO2B	0602004-04D
39)	Sample	35	P28222	FRBIO2B	0602004-05
40)	Sample	36	P28223	FRBIO2B	0602004-06
41)	Sample	37	P28224	FRBIO2B	0602004-07
42)	Sample	38	P28225	FRBIO2B	0602004-08
43)	Sample	39	P28226	FRBIO2B	0602004-09

* C2020900 PASS

* ICAL B1020209.M

* SS021106A WS02 2/14/06

Run used

PAH #2 Sequence Information

SHC Continuing Calibration: WHAC10 Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: ~~HC2090~~1.M PAH Process Method: ~~PAH20113~~.M

B1020209.M.

Mg 2/13/06

Last Modified: Fri Feb 10 15:08:42 2006

Sequence Name: C:\MSDChem\1\sequence\S2020901.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	40	P28227	FRBIO2B	0602004-09D ✓
45)	Sample	41	P28228	FRBIO2B	C2021003 PASS
46)	Sample	42	P28229	FRBIO2B	DCM
47)	Sample	43	P28230	FRBIO2B	0602004-10 ✓
48)	Sample	44	P28231	FRBIO2B	0602004-11 ✓
49)	Sample	45	P28232	FRBIO2B	0602004-12 ✓
50)	Sample	46	P28233	FRBIO2B	0602004-13 ✓
51)	Sample	47	P28234	FRBIO2B	0602004-14 ✓
52)	Sample	48	P28235	FRBIO2B	C2021004 PASS
53)	Sample	49	P28236	FRBIO2B	DCM

✓ run used

MS 2/13/06

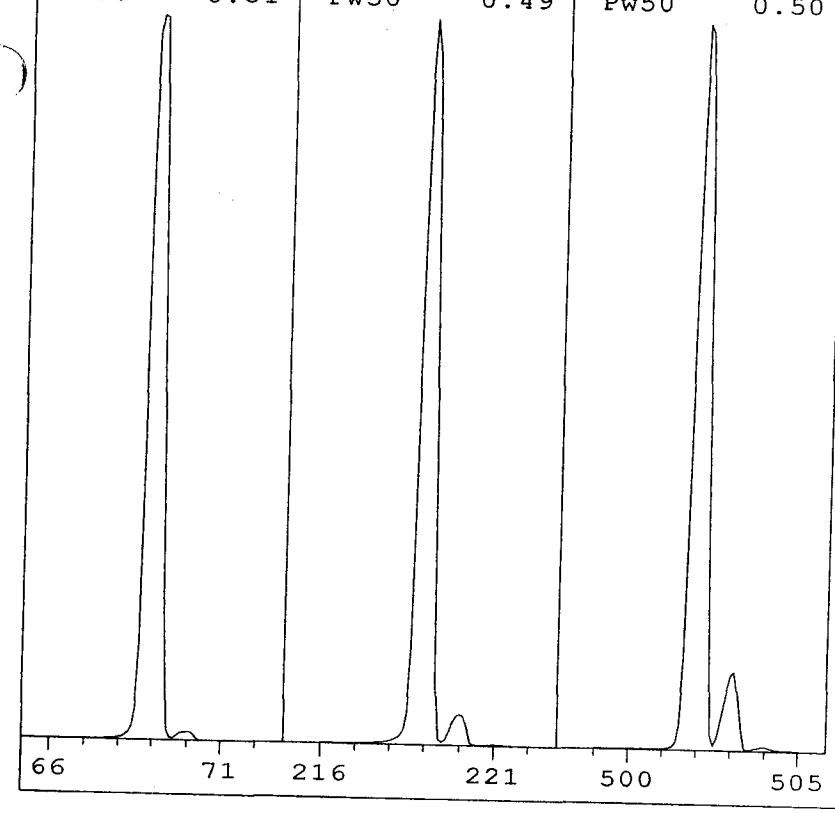
5973

Thu Feb 09 12:04:52 2006
C:\MSDCHEM\1\5973N\PFTBA.U

2/9/05

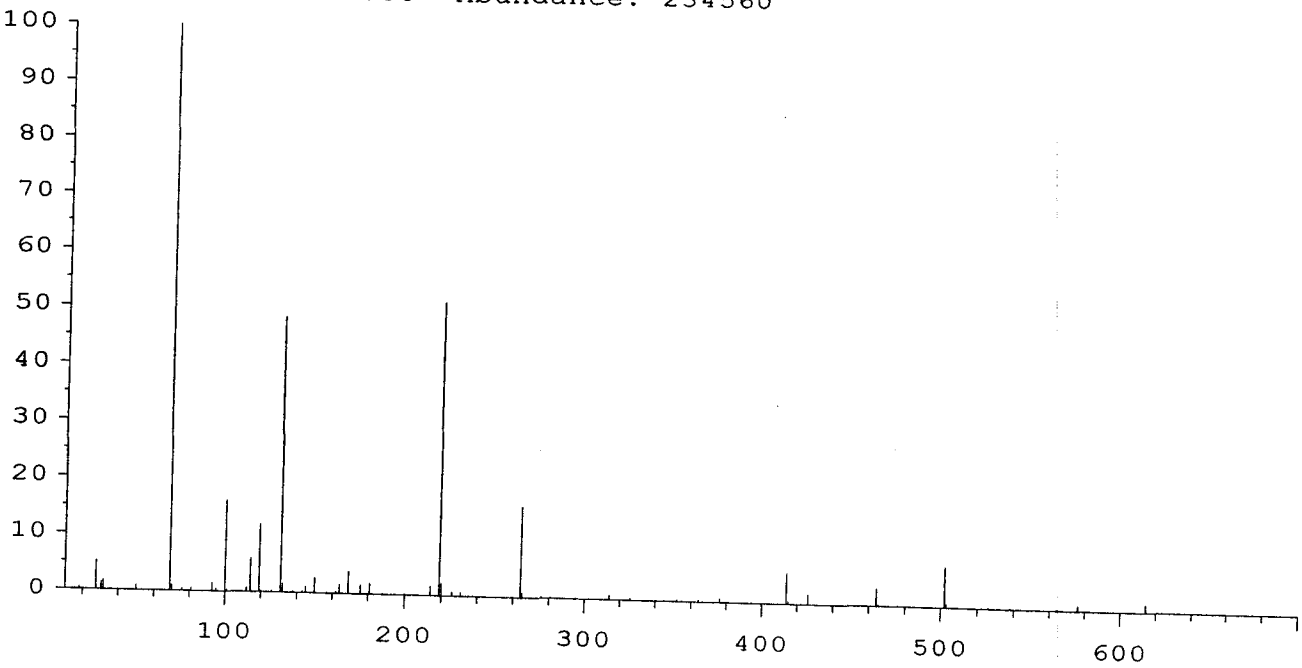
Instrument: PAHINST2

Mass	69.00	Mass	219.00	Mass	502.00
Ab	262104	Ab	141131	Ab	18904
Pw50	0.51	Pw50	0.49	Pw50	0.50



Ion Pol	POS	MassGain	132
		MassOffs	-12
Emission	34.6	AmuGain	2591
ElEnrgy	69.9	AmuOffs	131
Filament	1	Wid219	-0.038
		DC Pol	POS
Repeller	28.45		
IonFcus	81.6	HEDEnab	ON
EntLens	0.0	EMVolts	1518
EntOffs	VAR		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	Foreline	47
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
109 peaks Base: 69.00 Abundance: 234560



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	234560	100.00	70.00	2542	1.08
219.00	120768	51.49	220.00	5274	4.37
502.00	16736	7.14	503.00	1589	9.49

TARGET MASS:	50	69	131	219	414	502
DYNAMIC ENT OFFSET:	15.3	15.3	15.3	14.8	15.6	21.1
TARGET ABUND(%):	1.0	100.0	45.0	50.0	5.0	6.0
ACTUAL TUNE ABUND(%):	1.0	100.0	48.4	51.5	5.5	7.1

Response Factor Report PAHINST2

Method Path : O:\FORENSICS\METHODS\PAH2\FEB06\
Method File : BIO20209.M
Title : Decalins & Alkylated PAH's
Last Update : Fri Feb 10 06:42:03 2006
Response Via : Initial Calibration

Calibration Files
10 =P28189.D 25 =P28190.D 500 =P28191.D
1250=P28192.D 5000=P28193.D 1e4 =P28194.D

MS 2/10/06

		Compound	10	25	500	1250	5000	1e4	Avg	%RSD
1)	i	Acenaphthene-d10				ISTD				
2)	t	Decalin							0.000#	-1.00
3)	A1	trans-Decalin							0.000#	-1.00
4)	t	cis-Decalin							0.000#	-1.00
5)	A2	C1-Decalins							0.000#	-1.00
6)	A2	C2-Decalins							0.000#	-1.00
7)	A2	C3-Decalins							0.000#	-1.00
8)	A2	C4-Decalins							0.000#	-1.00
9)	A1	Naphthalene							0.000#	-1.00
10)	A2	C1-Naphthalenes							0.000#	-1.00
11)	A2	C2-Naphthalenes							0.000#	-1.00
12)	A2	C3-Naphthalenes							0.000#	-1.00
13)	A2	C4-Naphthalenes							0.000#	-1.00
14)	s	2-Methylnaphthale							0.000#	-1.00
15)	t	2-Methylnaphthale							0.000#	-1.00
16)	t	1-Methylnaphthale							0.000#	-1.00
17)	A1	Benzothiophene							0.000#	-1.00
18)	A2	C1-Benzo(b)thioph							0.000#	-1.00
19)	A2	C2-Benzo(b)thioph							0.000#	-1.00
20)	A2	C3-Benzo(b)thioph							0.000#	-1.00
21)	A2	C4-Benzo(b)thioph							0.000#	-1.00
22)	t	Biphenyl							0.000#	-1.00
23)	t	2,6-Dimethylnapht							0.000#	-1.00
24)	t	Dibenzofuran							0.000#	-1.00
25)	t	Acenaphthylene							0.000#	-1.00
26)	t	Acenaphthene							0.000#	-1.00
27)	t	2,3,5-Trimethylna							0.000#	-1.00
28)	A1	Fluorene							0.000#	-1.00
29)	A2	C1-Fluorenes							0.000#	-1.00
30)	A2	C2-Fluorenes							0.000#	-1.00
31)	A2	C3-Fluorenes							0.000#	-1.00
32)	A1	Dibenzothiophene							0.000#	-1.00
33)	A2	OTP							0.000#	-1.00
34)	A2	C1-Dibenzothiophe							0.000#	-1.00
35)	A2	C2-Dibenzothiophe							0.000#	-1.00
36)	A2	C3-Dibenzothiophe							0.000#	-1.00
37)	A2	C4-Dibenzothiophe							0.000#	-1.00
38)	A1	Phenanthrene							0.000#	-1.00
39)	A2	C1-Phenanthrenes/							0.000#	-1.00
40)	A2	C2-Phenanthrenes/							0.000#	-1.00
41)	A2	5AA IS BKGD							0.000#	-1.00
42)	A2	C3-Phenanthrenes/							0.000#	-1.00
43)	A2	C4-Phenanthrenes/							0.000#	-1.00
44)	A2	Retene							0.000#	-1.00
45)	t	Anthracene							0.000#	-1.00
46)	t	Carbazole							0.000#	-1.00
47)	t	1-Methylphenanthr							0.000#	-1.00
48)	A1	Fluoranthene							0.000#	-1.00
49)	A2	Benzo(b)fluorene							0.000#	-1.00
50)	s	Pyrene-d10							0.000#	-1.00
51)	A1	Pyrene							0.000#	-1.00
52)	A2	C1-Fluoranthenes/							0.000#	-1.00
53)	A2	C2-Fluoranthenes/							0.000#	-1.00
54)	A2	C3-Fluoranthenes/							0.000#	-1.00
55)	A2	C4-Fluoranthenes/							0.000#	-1.00
56)	A1	Naphthobenzothiop							0.000#	-1.00
57)	A2	Naphthobenzothiop							0.000#	-1.00

Response Factor Report PAHINST2

Method Path : O:\FORENSICS\METHODS\PAH2\FEB06\
Method File : BIO20209.M
Title : Decalins & Alkylated PAH's
Last Update : Fri Feb 10 06:42:03 2006
Response Via : Initial Calibration

Calibration Files
10 =P28189.D 25 =P28190.D 500 =P28191.D
1250=P28192.D 5000=P28193.D 1e4 =P28194.D

		Compound	10	25	500	1250	5000	1e4	Avg	%RSD
58)	A2	Naphthobenzothiop							0.000#	-1.00
59)	A2	Naphthobenzothiop							0.000#	-1.00
60)	A2	C1-Naphthobenzoth							0.000#	-1.00
61)	A2	C2-Naphthobenzoth							0.000#	-1.00
62)	A2	C3-Naphthobenzoth							0.000#	-1.00
63)	A2	C4-Naphthobenzoth							0.000#	-1.00
64)	i	Chrysene-d12	----------ISTD----------							
65)	t	Benz[a]anthracene							0.000#	-1.00
66)	t	Chrysene							0.000#	-1.00
67)	A1	Chrysene/Tripheny							0.000#	-1.00
68)	A2	C1-Chrysenes							0.000#	-1.00
69)	A2	C2-Chrysenes							0.000#	-1.00
70)	A2	BBF-d12 Surr BKGD							0.000#	-1.00
71)	A2	C3-Chrysenes							0.000#	-1.00
72)	A2	C4-Chrysenes							0.000#	-1.00
73)	s	Benzo[b]fluoranth							0.000#	-1.00
74)	t	Benzo[b]fluoranth							0.000#	-1.00
75)	A1	Benzo[k]fluoranth							0.000#	-1.00
76)	A2	Benzo[a]fluoranth							0.000#	-1.00
77)	t	Benzo[e]pyrene							0.000#	-1.00
78)	t	Benzo[a]pyrene							0.000#	-1.00
79)	t	Perylene							0.000#	-1.00
80)	t	Indeno[1,2,3-cd]p							0.000#	-1.00
81)	t	Dibenz[a,h]anthra							0.000#	-1.00
82)	t	Benzo[g,h,i]peryl							0.000#	-1.00
83)	A1	17a(H),21B(H)-hop	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
84)	A2	Hopane (T19)	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
85)	A2	C23 Tricyclic Ter	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
86)	A2	C24 Tricyclic Ter	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
87)	A2	C25 Tricyclic Ter	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
88)	A2	C24 Tetracyclic T	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
89)	A2	C26 Tricyclic Ter	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
90)	A2	C26 Tricyclic Ter	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
91)	A2	C28 Tricyclic Ter	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
92)	A2	C28 Tricyclic Ter	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
93)	A2	C29 Tricyclic Ter	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
94)	A2	C29 Tricyclic Ter	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
95)	A2	18a-22,29,30-Tris	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
96)	A2	C30 Tricyclic Ter	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
97)	A2	C30 Tricyclic Ter	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
98)	A2	17a(H)-22,29,30-T	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
99)	A2	17a/b,21b/a 28,30	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
100)	A2	17a(H),21b(H)-25-	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
101)	A2	30-Norhopane (T15	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
102)	A2	18a(H)-30-Norneoh	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
103)	A2	17a(H)-Diahopane	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
104)	A2	30-Normoretane (T	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
105)	A2	18a(H)&18b(H)-Ole	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
106)	A2	Moretane (T20)	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
107)	A2	30-Homohopane-22S	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
108)	A2	30-Homohopane-22R	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
109)	A2	30,31-Bishomohopa	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
110)	A2	30,31-Bishomohopa	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
111)	A2	30,31-Trishomohop	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
112)	A2	30,31-Trishomohop	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
113)	A2	Tetrakishomohopan	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
114)	A2	Tetrakishomohopan	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58

2nd 2/14/06

Response Factor Report PAHINST2

Method Path : O:\FORENSICS\METHODS\PAH2\FEB06\
Method File : BIO20209.M
Title : Decalins & Alkylated PAH's
Last Update : Fri Feb 10 06:42:03 2006
Response Via : Initial Calibration

Calibration Files
10 =P28189.D 25 =P28190.D 500 =P28191.D
1250=P28192.D 5000=P28193.D 1e4 =P28194.D

		Compound	10	25	500	1250	5000	1e4	Avg	%RSD
115)	A2	Pentakishomohopan	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
116)	A2	Pentakishomohopan	0.596	0.529	0.428	0.525	0.437	0.446	0.494	13.58
117)	SA1	5B(H)Cholane - Su	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
118)	A2	13b(H),17a(H)-20S	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
119)	A2	13b(H),17a(H)-20R	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
120)	A2	13b,17a-20S-Methy	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
121)	A2	14a(H),17a(H)-20S	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
122)	A2	14a(H),17a(H)-20R	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
123)	A2	13b,17a-20R-Ethyl	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
124)	A2	13a,17b-20S-Ethyl	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
125)	A2	14a,17a-20S-Methy	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
126)	A2	14a,17a-20R-Methy	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
127)	A2	14a(H),17a(H)-20S	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
128)	A2	14a(H),17a(H)-20R	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
129)	A2	14b(H),17b(H)-20R	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
130)	A2	14b(H),17b(H)-20S	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
131)	A2	14b,17b-20R-Methy	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
132)	A2	14b,17b-20S-Methy	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
133)	A2	14b(H),17b(H)-20R	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77
134)	A2	14b(H),17b(H)-20S	0.197	0.204	0.207	0.216	0.230	0.221	0.213	5.77

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

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28189.D
Acq On : 9 Feb 2006 1:52 pm
Operator : AC
Sample : I2020901
Misc : WHAB60
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 10 06:41:48 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:31:12 2006
Response via : Initial Calibration

2/10/06 2/13/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.65	240	27108	500.00	ng/mL	0.02

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
117) 5B(H)Cholane - Surr	44.20	217	107m	9.47	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.95%#	

Target Compounds

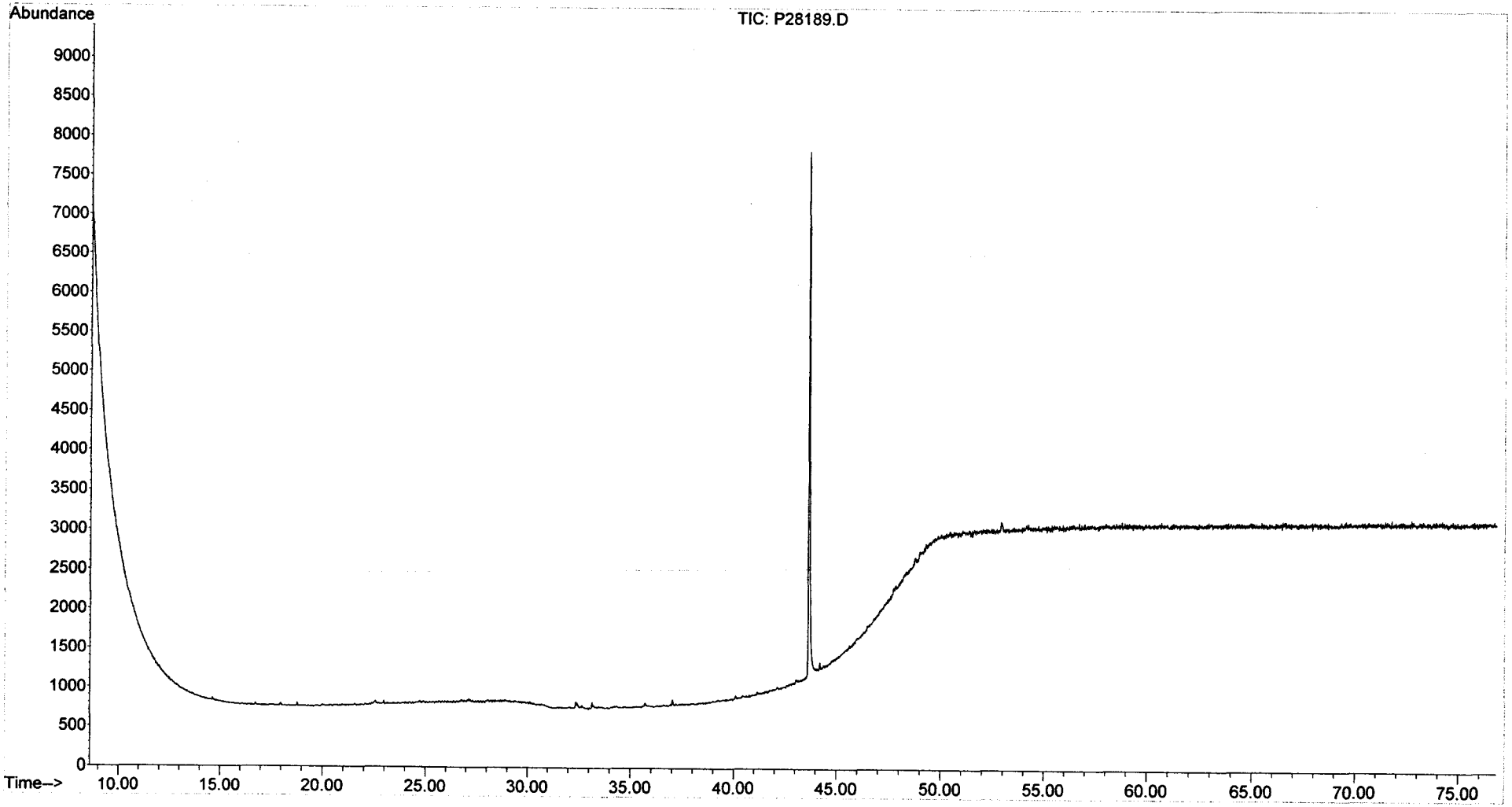
						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.93	191	323m	10.99	ng/mL	
84) Hopane (T19)	52.93	191	323m	10.99	ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28189.D
Acq On : 9 Feb 2006 1:52 pm
Operator : AC
Sample : I2020901
Misc : WHAB60
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 10 06:41:48 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:31:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28190.D
Acq On : 9 Feb 2006 3:26 pm
Operator : AC
Sample : I2020902
Misc : WHAB59
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 10 06:35:40 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:31:12 2006
Response via : Initial Calibration

MS 2/10/06 2/13/06

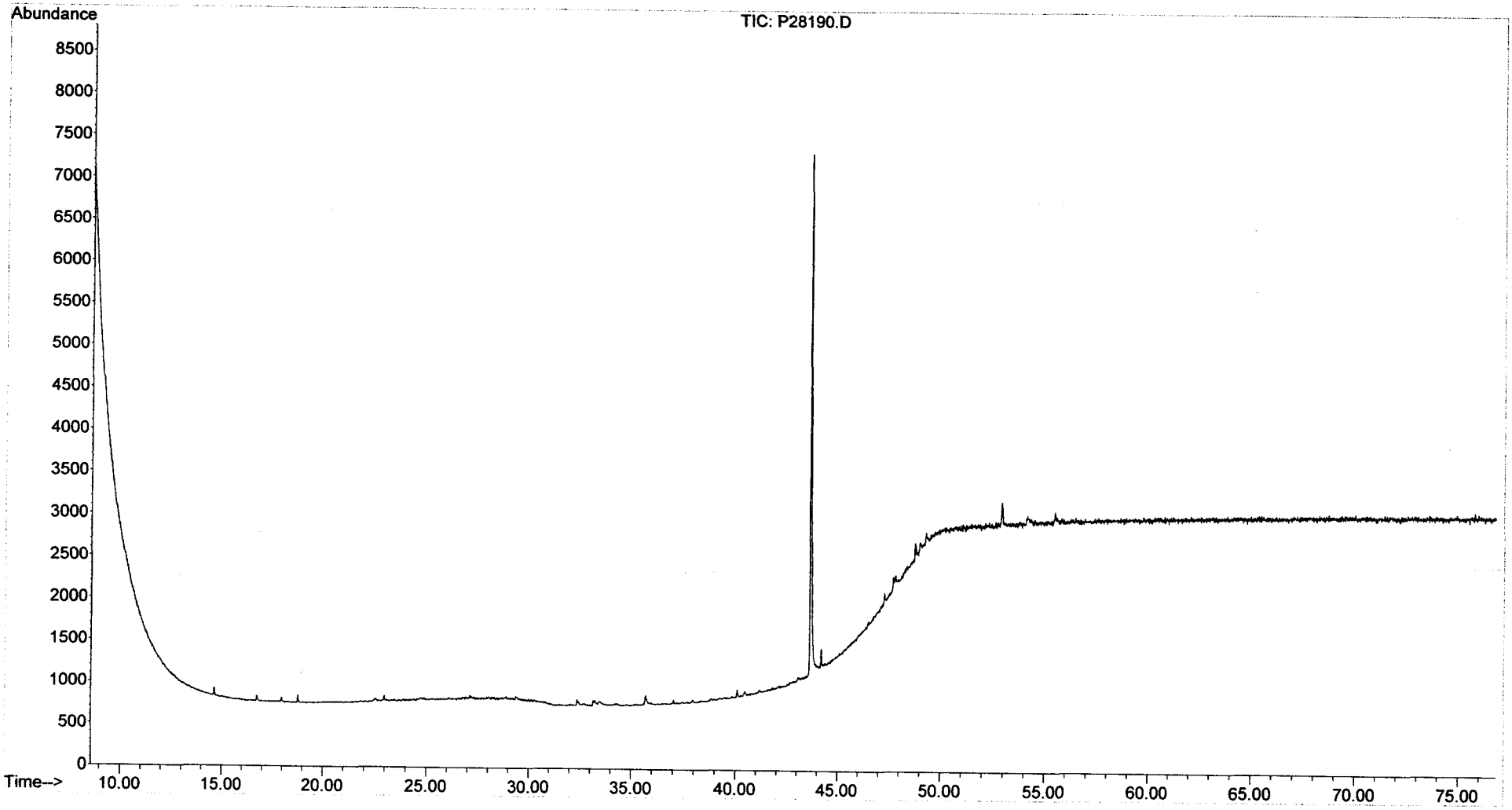
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00 ng/mL	-30.25
64) Chrysene-d12	43.66	240	26483	500.00 ng/mL	0.03
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#	
117) 5B(H)Cholane - Surr	44.20	217	270m	24.45 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery =	2.44%#	
Target Compounds					Qvalue
83) 17a(H),21B(H)-hopane - C30	52.92	191	701m	24.40 ng/mL	
84) Hopane (T19)	52.92	191	686m	23.88 ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28190.D
Acq On : 9 Feb 2006 3:26 pm
Operator : AC
Sample : I2020902
Misc : WHAB59
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 10 06:35:40 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:31:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28191.D
Acq On : 9 Feb 2006 5:02 pm
Operator : AC
Sample : I2020903
Misc : WHAC13
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 10 06:36:22 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:31:12 2006
Response via : Initial Calibration

CMS 2/10/06 2/13/06

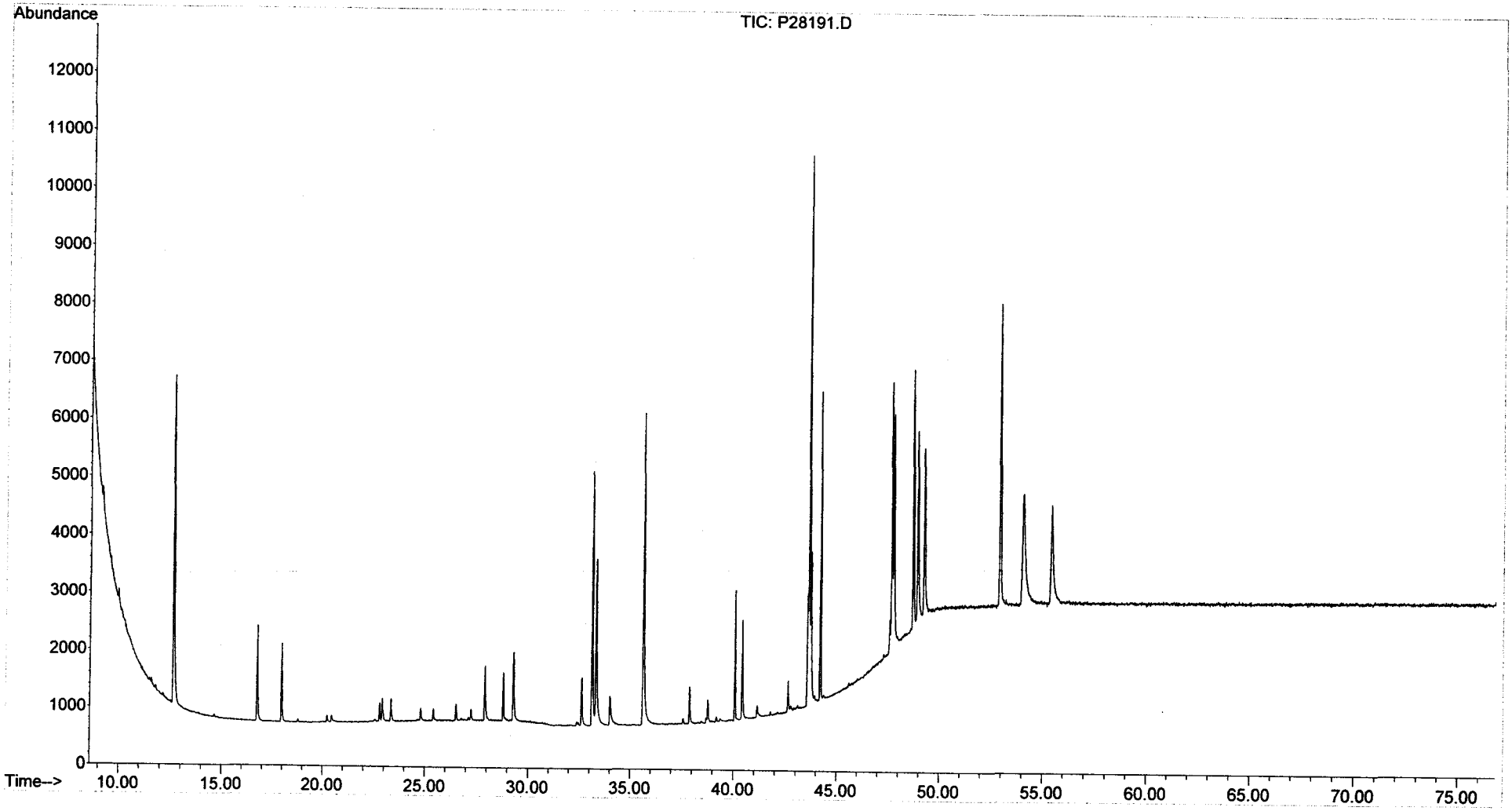
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.63	240	30993	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
117) 5B(H)Cholane - Surr	44.20	217	6404	495.51	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	49.55%#	
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.92	191	13278	394.97	ng/mL#	88
84) Hopane (T19)	52.92	191	13278	394.97	ng/mL#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28191.D
Acq On : 9 Feb 2006 5:02 pm
Operator : AC
Sample : I2020903
Misc : WHAC13
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 10 06:36:22 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:31:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28192.D
Acq On : 9 Feb 2006 6:36 pm
Operator : AC
Sample : I2020904
Misc : WHAB55
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 10 06:36:58 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:31:12 2006
Response via : Initial Calibration

MS 2/10/06 / 2/13/06

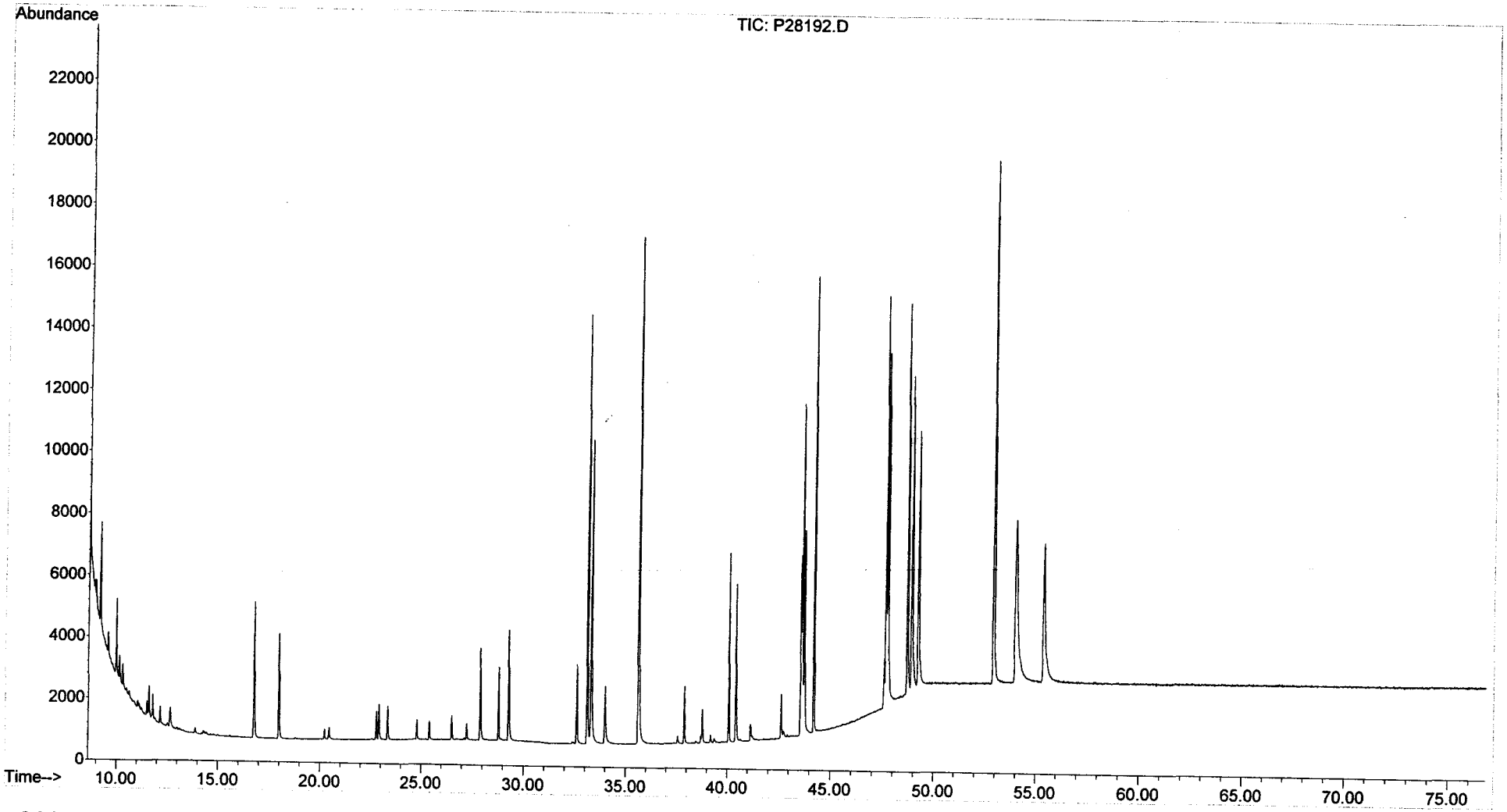
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00 ng/mL	-30.25
64) Chrysene-d12	43.63	240	31865	500.00 ng/mL	0.00
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#	
117) 5B(H)Cholane - Surr	44.20	217	17217	1295.70 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery =	129.57%	
Target Compounds					Qvalue
83) 17a(H),21B(H)-hopane - C30	52.92	191	41831	1210.28 ng/mL#	88
84) Hopane (T19)	52.92	191	41831	1210.28 ng/mL#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28192.D
Acq On : 9 Feb 2006 6:36 pm
Operator : AC
Sample : I2020904
Misc : WHAB55
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 10 06:36:58 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:31:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28193.D
Acq On : 9 Feb 2006 8:09 pm
Operator : AC
Sample : I2020905
Misc : WHAB54
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 10 06:37:41 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:31:12 2006
Response via : Initial Calibration

MS 2/10/06 2/13/06

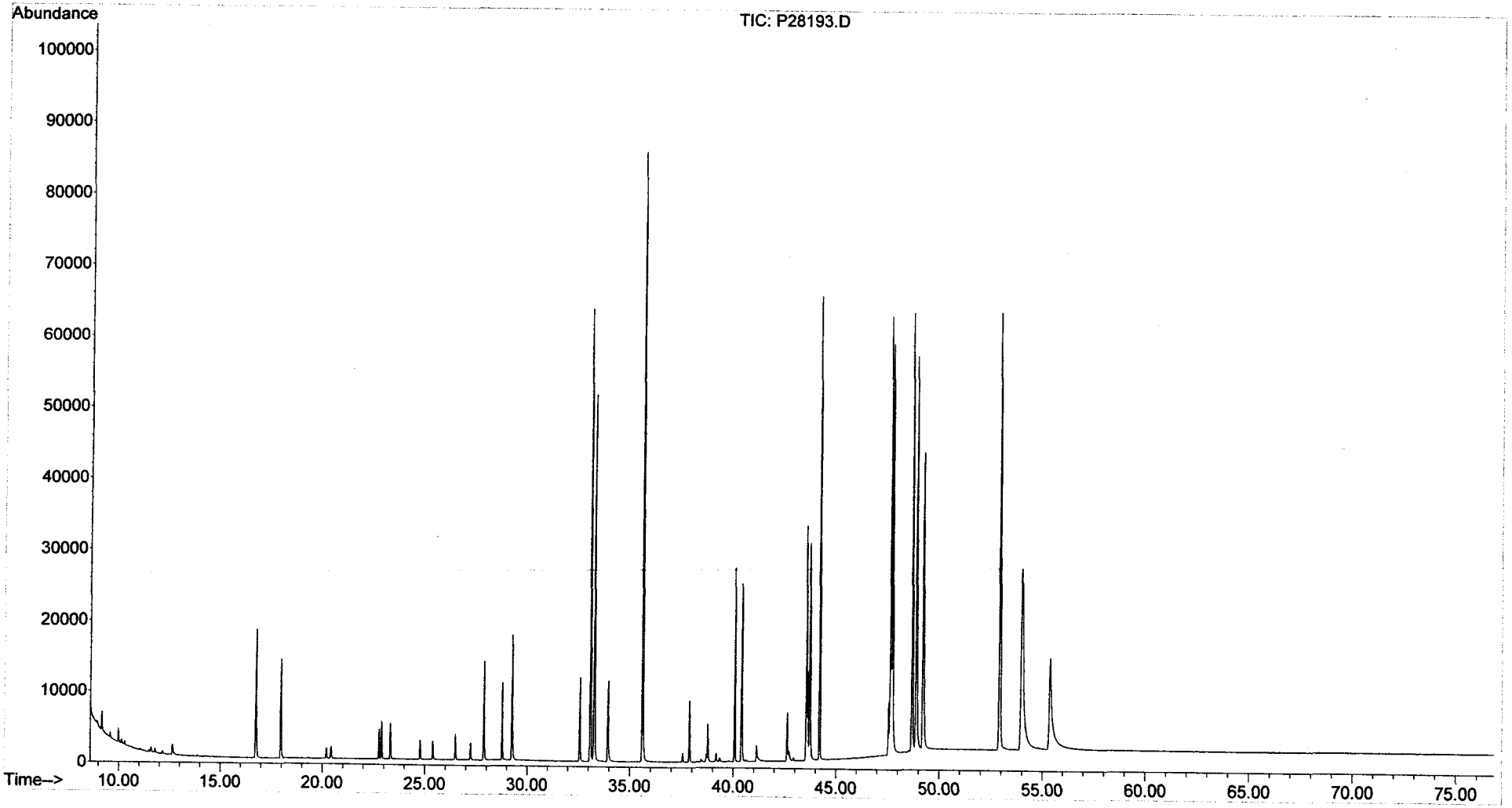
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.62	240	33439	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	44.20	217	77055	5525.97	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 552.60%#			
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.93	191	146028	4026.08	ng/mL#	88
84) Hopane (T19)	52.93	191	146028	4026.08	ng/mL#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28193.D
Acq On : 9 Feb 2006 8:09 pm
Operator : AC
Sample : I2020905
Misc : WHAB54
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 10 06:37:41 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:31:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28194.D
Acq On : 9 Feb 2006 9:47 pm
Operator : AC
Sample : I2020906
Misc : WHAB53
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 10 06:38:32 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:31:12 2006
Response via : Initial Calibration

2/10/06 2/13/06

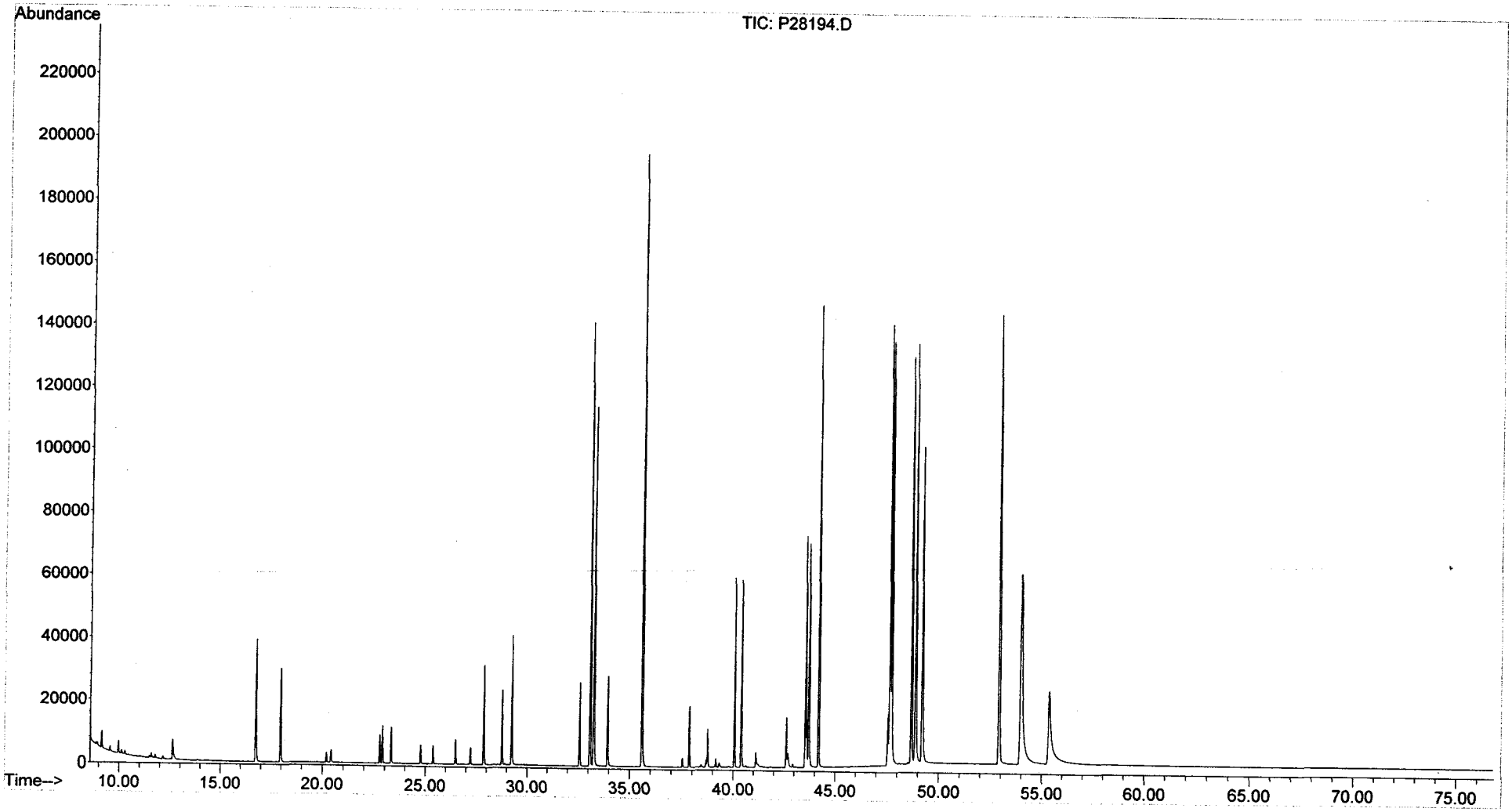
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00 ng/mL	-30.25
64) Chrysene-d12	43.62	240	37516	500.00 ng/mL	-0.01
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#	
117) 5B(H)Cholane - Surr	44.20	217	166122	10618.70 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery =	1061.87%#	
Target Compounds					Qvalue
83) 17a(H),21B(H)-hopane - C30	52.93	191	334555	8221.50 ng/mL#	88
84) Hopane (T19)	52.93	191	334555	8221.50 ng/mL#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\FEBRUARY06\FEB09\
Data File : P28194.D
Acq On : 9 Feb 2006 9:47 pm
Operator : AC
Sample : I2020906
Misc : WHAB53
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 10 06:38:32 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:31:12 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\January06\JAN31\
Data File : P17925.D
Acq On : 2 Feb 2006 7:15 pm
Operator : AC
Sample : C1013104
Misc : PAH STD
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 03 07:27:22 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/3/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	56	-0.01
2	t	Decalin	0.391	0.000#	100.0#	0#	-16.24#
3	A1	trans-Decalin	0.432	0.393	9.0	53	0.00
4	t	cis-Decalin	0.325	0.299	8.0	53	0.00
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.18#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.52#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.99#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.38#
9	A1	Naphthalene	2.553	2.213	13.3	49	0.00
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.36#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.21#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.54#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.30#
14	s	2-Methylnaphthalene-d10	1.072	1.001	6.6	54	-0.01
15	t	2-Methylnaphthalene	1.617	1.448	10.5	51	-0.01
16	t	1-Methylnaphthalene	1.522	1.369	10.1	51	0.00
17	A1	Benzothiophene	2.278	1.929	15.3	48	0.00
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.93#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.41#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.38#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.13#
22	t	Biphenyl	2.010	1.813	9.8	52	-0.01
23	t	2,6-Dimethylnaphthalene	1.342	1.251	6.8	54	-0.01
24	t	Dibenzofuran	2.258	2.055	9.0	52	-0.01
25	t	Acenaphthylene	2.448	2.219	9.4	52	-0.01
26	t	Acenaphthene	1.521	1.372	9.8	52	-0.01
27	t	2,3,5-Trimethylnaphthalene	1.204	1.142	5.1	55	-0.01
28	A1	Fluorene	1.706	1.567	8.1	53	-0.01
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.06#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.27#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.11#
32	A1	Dibenzothiophene	2.515	2.239	11.0	51	-0.01
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.79#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.15#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.57#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.22#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.80#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.48#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.29#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.99#
41	A1	Phenanthrene	2.529	2.312	8.6	53	-0.01
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.48#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.59#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.74#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.94#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-35.03#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.94#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.76#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.52#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.59#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\January06\JAN31\
Data File : P17925.D
Acq On : 2 Feb 2006 7:15 pm
Operator : AC
Sample : C1013104
Misc : PAH STD
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 03 07:27:22 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.80#
52	T	Retene	0.529	0.542	-2.5	61	-0.02
53	t	Anthracene	2.340	2.138	8.6	53	-0.01
54	t	Carbazole	2.166	2.051	5.3	53	-0.02
55	t	1-Methylphenanthrene	1.732	1.625	6.2	54	-0.02
56	A1	Fluoranthene	2.693	2.465	8.5	53	-0.02
57	T	Benzo(b)fluorene	1.572	1.485	5.5	55	-0.02
58	s	Pyrene-d10	2.204	2.249	-2.0	58	-0.02
59	A1	Pyrene	2.739	2.524	7.8	53	-0.02
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.57#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.38#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.40#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.76#
64	A1	Naphthobenzothiophene	2.562	2.397	6.4	54	-0.02
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.397	6.4	54	-0.02
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.37#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.68#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.44#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.44#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.04#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.12#
72	i	Chrysene-d12	1.000	1.000	0.0	58	-0.02
73	t	Benz[a]anthracene	1.522	1.456	4.3	57	-0.02
74	A1	Chrysene	1.555	1.440	7.4	55	-0.02
75	A2	Chrysene/Triphenylene	1.555	1.440	7.4	55	-0.02
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.61#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.32#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.94#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.41#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-49.00#
81	s	Benzo[b]fluoranthene-d12	0.996	0.993	0.3	59	-0.04
82	t	Benzo[b]fluoranthene	1.563	1.491	4.6	56	-0.02
83	A1	Benzo[k]fluoranthene	1.626	1.577	3.0	56	-0.02
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.46#
85	t	Benzo[e]pyrene	1.513	1.425	5.8	56	-0.02
86	t	Benzo[a]pyrene	1.497	1.444	3.5	57	-0.02
87	t	Perylene	1.464	1.404	4.1	57	-0.02
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.341	-1.7	66	-0.04
89	t	Dibenz[a,h]anthracene	1.343	1.390	-3.5	61	-0.05
90	t	Benzo[g,h,i]perylene	1.518	1.445	4.8	56	-0.05
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.343	21.9	47	-0.04
92	A2	Hopane (T19)	0.439	0.343	21.9	47	-0.04
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.69#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.40#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.90#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.22#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.97#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.05#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.36#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\January06\JAN31\
Data File : P17925.D
Acq On : 2 Feb 2006 7:15 pm
Operator : AC
Sample : C1013104
Misc : PAH STD
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 03 07:27:22 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.52#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-47.04#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.24#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.35#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.45#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.70#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.90#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.10#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.89#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.76#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.86#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.98#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.53#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.93#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.81#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.92#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.14#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.48#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.85#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.61#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.22#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.23#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.15#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.38#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.66#
125	SA1	5B(H)Cholane - Surr	0.196	0.183	6.6	57	-0.02
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.18#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.60#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.31#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.18#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.68#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.97#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.23#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.39#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.11#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.46#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.37#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.26#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.35#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.56#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.64#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.70#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.74#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN31\
Data File : P17925.D
Acq On : 2 Feb 2006 7:15 pm
Operator : AC
Sample : C1013104
Misc : PAH STD
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 03 07:27:22 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/3/06

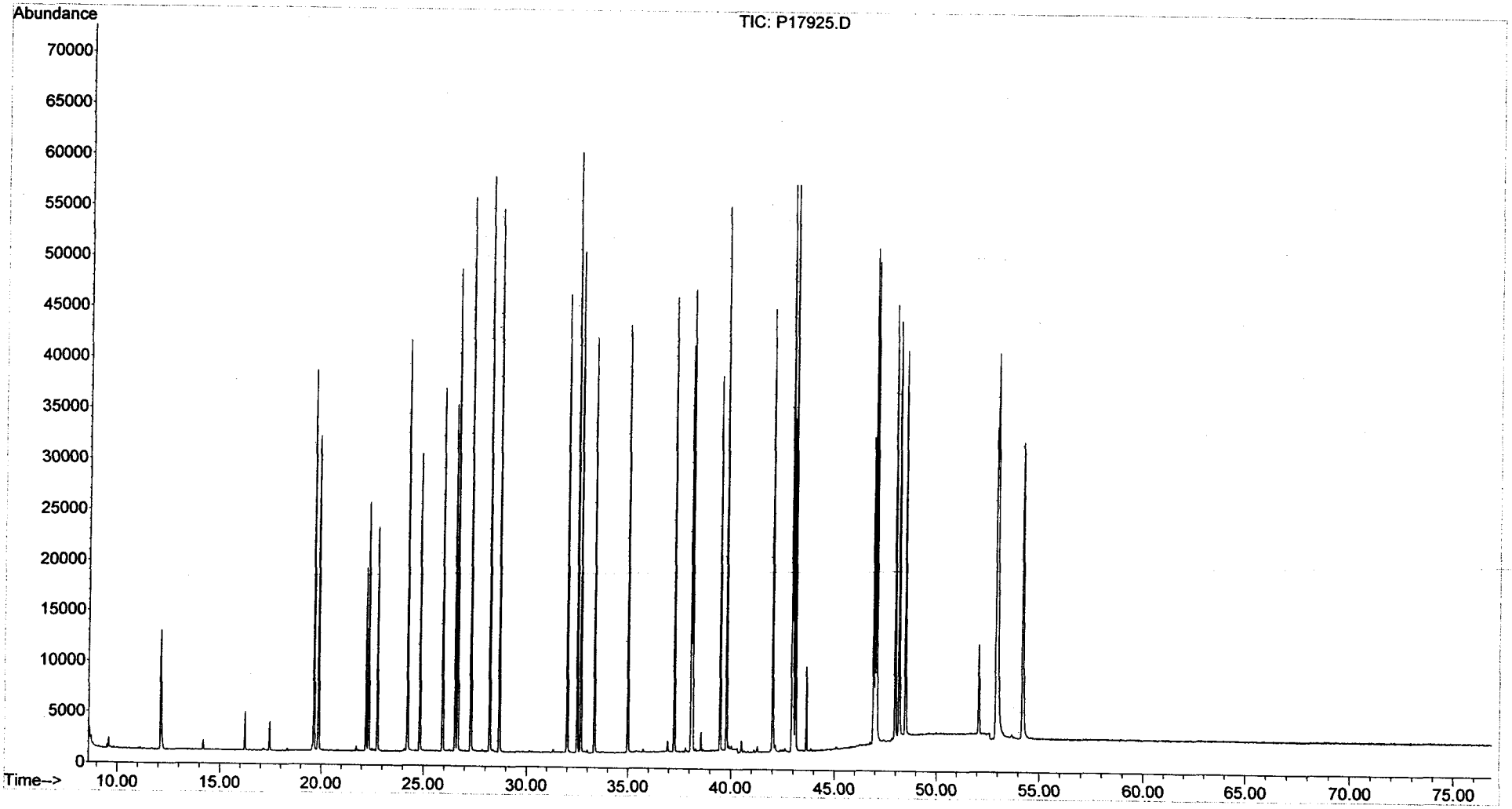
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.53	164	40215	500.00 ng/mL	-0.01
72) Chrysene-d12	42.99	240	63448	500.00 ng/mL	-0.02
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.21	152	40266	467.05 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery =	46.71%#	
58) Pyrene-d10	38.07	212	90429	510.16 ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	51.02%	
81) Benzo[b]fluoranthene-d12	46.89	264	63020	498.78 ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery =	49.88%#	
125) 5B(H)Cholane - Surr	43.63	217	11628	466.41 ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery =	46.64%#	
Target Compounds					Qvalue
3) trans-Decalin	16.24	138	7902	227.46 ng/mL	100
4) cis-Decalin	17.45	138	6021	230.34 ng/mL	100
9) Naphthalene	19.64	128	89003	433.37 ng/mL#	100
15) 2-Methylnaphthalene	22.33	142	58250	448.02 ng/mL#	100
16) 1-Methylnaphthalene	22.77	142	55035	449.63 ng/mL#	100
17) Benzothiophene	19.87	134	77589	423.54 ng/mL	100
22) Biphenyl	24.21	154	72898	450.99 ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.82	156	50317	466.33 ng/mL#	100
24) Dibenzofuran	27.30	168	82660	455.21 ng/mL	97
25) Acenaphthylene	25.92	152	89231	453.14 ng/mL#	100
26) Acenaphthene	26.65	153	55171	451.04 ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.21	170	45919	474.07 ng/mL	97
28) Fluorene	28.67	166	63008	459.30 ng/mL	99
32) Dibenzothiophene	31.99	184	90045	445.09 ng/mL	99
41) Phenanthrene	32.49	178	92966	457.02 ng/mL	99
52) Retene	39.48	234	21810	512.79 ng/mL	95
53) Anthracene	32.67	178	85999	456.94 ng/mL	100
54) Carbazole	33.33	167	82469	473.44 ng/mL	99
55) 1-Methylphenanthrene	34.99	192	65359	469.24 ng/mL	99
56) Fluoranthene	37.25	202	99125	457.66 ng/mL	98
57) Benzo(b)fluorene	39.78	216	59707	472.36 ng/mL	99
59) Pyrene	38.13	202	101495	460.74 ng/mL	100
64) Naphthobenzothiophene	42.00	234	96400	467.78 ng/ml	99
65) Naphthobenzothiophene-2,1-	42.00	234	96400	467.78 ng/mL	99
73) Benz[a]anthracene	42.93	228	92374	478.27 ng/mL	99
74) Chrysene	43.09	228	91370	462.98 ng/mL	98
75) Chrysene/Triphenylene	43.09	228	91370	462.98 ng/mL	98
82) Benzo[b]fluoranthene	46.98	252	94574	476.79 ng/mL	100
83) Benzo[k]fluoranthene	47.07	252	100060	484.89 ng/mL	99
85) Benzo[e]pyrene	47.97	252	90394	470.69 ng/mL	99
86) Benzo[a]pyrene	48.16	252	91631	482.24 ng/mL	100
87) Perylene	48.47	252	89090	479.66 ng/mL	100
88) Indeno[1,2,3-cd]pyrene	52.91	276	85064m	508.71 ng/mL	
89) Dibenz[a,h]anthracene	52.98	278	88197	517.46 ng/mL	98
90) Benzo[g,h,i]perylene	54.19	276	91678	475.79 ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.07	191	21768	390.73 ng/mL	98
92) Hopane (T19)	52.07	191	21768	390.73 ng/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN31\
Data File : P17925.D
Acq On : 2 Feb 2006 7:15 pm
Operator : AC
Sample : C1013104
Misc : PAH STD
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 03 07:27:22 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17949.D
Acq On : 3 Feb 2006 2:55 pm
Operator : AC
Sample : C1020301
Misc : 1X
ALS Vial : 1 Sample Multiplier: 1

2/3/06

Quant Time: Feb 03 16:55:22 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	51	-0.01
2	t	Decalin	0.391	0.360	7.9	50	0.00
3	A1	trans-Decalin	0.432	0.400	7.4	49	0.00
4	t	cis-Decalin	0.325	0.307	5.5	50	0.00
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.18#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.52#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.99#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.38#
9	A1	Naphthalene	2.553	2.345	8.1	47	0.00
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.36#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.21#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.54#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.30#
14	s	2-Methylnaphthalene-d10	1.072	1.030	3.9	50	-0.01
15	t	2-Methylnaphthalene	1.617	1.522	5.9	49	-0.01
16	t	1-Methylnaphthalene	1.522	1.430	6.0	49	0.00
17	A1	Benzothiophene	2.278	2.024	11.2	46	0.00
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.93#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.41#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.38#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.13#
22	t	Biphenyl	2.010	1.873	6.8	48	-0.01
23	t	2,6-Dimethylnaphthalene	1.342	1.289	3.9	50	0.00
24	t	Dibenzofuran	2.258	2.131	5.6	49	-0.01
25	t	Acenaphthylene	2.448	2.339	4.5	50	-0.01
26	t	Acenaphthene	1.521	1.428	6.1	49	-0.01
27	t	2,3,5-Trimethylnaphthalene	1.204	1.152	4.3	51	-0.01
28	A1	Fluorene	1.706	1.576	7.6	49	-0.01
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.06#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.27#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.11#
32	A1	Dibenzothiophene	2.515	2.313	8.0	48	-0.01
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.79#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.15#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.57#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.22#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.80#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.48#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.29#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.99#
41	A1	Phenanthrene	2.529	2.335	7.7	48	-0.01
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.48#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.59#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.74#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.94#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-35.03#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.94#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.76#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.52#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.59#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17949.D
Acq On : 3 Feb 2006 2:55 pm
Operator : AC
Sample : C1020301
Misc : 1X
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 03 16:55:22 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.80#
52	T	Retene	0.529	0.535	-1.1	54	-0.02
53	t	Anthracene	2.340	2.217	5.3	50	-0.01
54	t	Carbazole	2.166	1.998	7.8	47	-0.02
55	t	1-Methylphenanthrene	1.732	1.634	5.7	50	-0.01
56	A1	Fluoranthene	2.693	2.512	6.7	49	-0.02
57	T	Benzo(b)fluorene	1.572	1.363	13.3	46	-0.02
58	s	Pyrene-d10	2.204	2.219	-0.7	52	-0.02
59	A1	Pyrene	2.739	2.554	6.8	48	-0.01
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.57#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.38#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.40#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.76#
64	A1	Naphthobenzothiophene	2.562	2.360	7.9	48	-0.02
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.362	7.8	48	-0.02
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.37#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.68#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.44#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.44#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.04#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.12#
72	i	Chrysene-d12	1.000	1.000	0.0	51	-0.02
73	t	Benz[a]anthracene	1.522	1.480	2.8	51	-0.02
74	A1	Chrysene	1.555	1.460	6.1	49	-0.02
75	A2	Chrysene/Triphenylene	1.555	1.460	6.1	49	-0.02
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.61#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.32#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.94#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.41#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-49.00#
81	s	Benzo[b]fluoranthene-d12	0.996	0.981	1.5	51	-0.02
82	t	Benzo[b]fluoranthene	1.563	1.555	0.5	51	-0.02
83	A1	Benzo[k]fluoranthene	1.626	1.489	8.4	46	-0.02
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.46#
85	t	Benzo[e]pyrene	1.513	1.466	3.1	50	-0.02
86	t	Benzo[a]pyrene	1.497	1.375	8.1	48	-0.02
87	t	Perylene	1.464	1.387	5.3	50	-0.02
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.226	7.0	53	-0.04
89	t	Dibenz[a,h]anthracene	1.343	1.144	14.8	44	-0.04
90	t	Benzo[g,h,i]perylene	1.518	1.431	5.7	49	-0.05
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.360	18.0	43	-0.04
92	A2	Hopane (T19)	0.439	0.360	18.0	43	-0.04
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.69#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.40#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.90#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.22#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.97#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.05#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.36#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17949.D
Acq On : 3 Feb 2006 2:55 pm
Operator : AC
Sample : C1020301
Misc : 1X
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 03 16:55:22 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.52#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-47.04#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.24#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.35#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.45#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.70#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.90#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.10#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.89#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.76#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.86#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.98#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.53#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.93#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.81#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.92#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.14#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.48#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.85#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.61#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.22#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.23#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.15#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.38#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.66#
125	SA1	5B(H)Cholane - Surr	0.196	0.190	3.1	51	-0.02
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.18#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.60#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.31#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.18#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.68#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.97#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.23#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.39#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.11#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.46#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.37#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.26#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.35#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.56#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.64#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.70#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.74#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17949.D
Acq On : 3 Feb 2006 2:55 pm
Operator : AC
Sample : C1020301
Misc : 1X
ALS Vial : 1 Sample Multiplier: 1

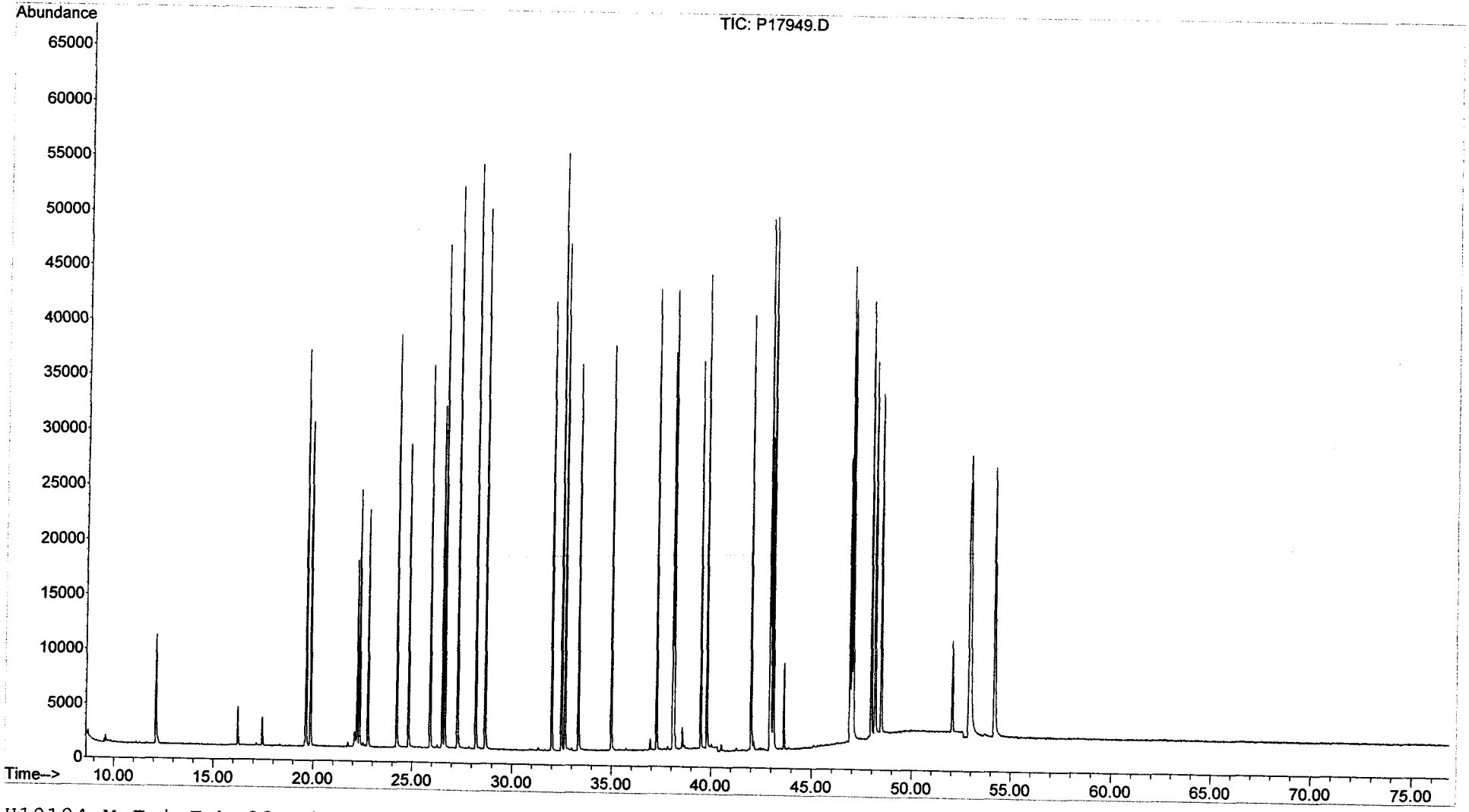
Quant Time: Feb 03 16:55:22 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.53	164	36494	500.00	ng/mL	-0.01
72) Chrysene-d12	42.99	240	55601	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.21	152	37607	480.69	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.07%#			
58) Pyrene-d10	38.07	212	80984	503.46	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 50.35%			
81) Benzo[b]fluoranthene-d12	46.90	264	54560	492.77	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 49.28%#			
125) 5B(H)Cholane - Surr	43.63	217	10555	483.12	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.31%#			
Target Compounds						Qvalue
2) Decalin	16.24	138	13128m	459.53	ng/mL	
3) trans-Decalin	16.24	138	7300	231.56	ng/mL	100
4) cis-Decalin	17.45	138	5606	236.33	ng/mL	100
9) Naphthalene	19.64	128	85569	459.13	ng/mL#	100
15) 2-Methylnaphthalene	22.33	142	55530	470.65	ng/mL#	100
16) 1-Methylnaphthalene	22.77	142	52178	469.75	ng/mL#	100
17) Benzothiophene	19.87	134	73865	444.33	ng/mL	100
22) Biphenyl	24.21	154	68353	465.98	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.83	156	47045	480.46	ng/mL#	100
24) Dibenzofuran	27.30	168	77777	471.99	ng/mL	98
25) Acenaphthylene	25.92	152	85376	477.77	ng/mL#	100
26) Acenaphthene	26.65	153	52108	469.43	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.21	170	42034	478.21	ng/mL	99
28) Fluorene	28.67	166	57516	462.02	ng/mL	100
32) Dibenzothiophene	31.99	184	84425	459.86	ng/mL	99
41) Phenanthrene	32.49	178	85224	461.68	ng/mL	100
52) Retene	39.48	234	19513	505.57	ng/mL	97
53) Anthracene	32.67	178	80900	473.67	ng/mL	99
54) Carbazole	33.33	167	72906	461.22	ng/mL	99
55) 1-Methylphenanthrene	35.00	192	59628	471.75	ng/mL	99
56) Fluoranthene	37.25	202	91679	466.44	ng/mL	100
57) Benzo(b)fluorene	39.78	216	49748	433.70	ng/mL	99
59) Pyrene	38.15	202	93219	466.32	ng/mL	99
64) Naphthobenzothiophene	42.00	234	86120	460.50	ng/ml	99
65) Naphthobenzothiophene-2,1-	42.00	234	86188	460.87	ng/mL	99
73) Benz[a]anthracene	42.93	228	82267	486.05	ng/mL	99
74) Chrysene	43.09	228	81202	469.53	ng/mL	98
75) Chrysene/Triphenylene	43.09	228	81202	469.53	ng/mL	98
82) Benzo[b]fluoranthene	46.98	252	86448	497.33	ng/mL	100
83) Benzo[k]fluoranthene	47.07	252	82765	457.68	ng/mL	100
85) Benzo[e]pyrene	47.97	252	81485	484.19	ng/mL	99
86) Benzo[a]pyrene	48.16	252	76426	458.98	ng/mL	100
87) Perylene	48.47	252	77094	473.65	ng/mL	98
88) Indeno[1,2,3-cd]pyrene	52.91	276	68146m	465.05	ng/mL	
89) Dibenz[a,h]anthracene	52.99	278	63617	425.92	ng/mL	98
90) Benzo[g,h,i]perylene	54.19	276	79589	471.35	ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.07	191	19990	409.46	ng/mL	100
92) Hopane (T19)	52.07	191	19990	409.46	ng/mL	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17949.D
Acq On : 3 Feb 2006 2:55 pm
Operator : AC
Sample : C1020301
Misc : 1X
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 03 16:55:22 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17975D.D
Acq On : 4 Feb 2006 2:10 pm
Operator : AC
Sample : C1020302A
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 06 06:34:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/6/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	60	-0.02
2	t	Decalin	0.391	0.000#	100.0#	0#	-16.24#
3	A1	trans-Decalin	0.432	0.395	8.6	56	-0.01
4	t	cis-Decalin	0.325	0.300	7.7	57	-0.01
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.18#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.52#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.99#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.38#
9	A1	Naphthalene	2.553	2.254	11.7	53	-0.01
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.36#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.21#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.54#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.30#
14	s	2-Methylnaphthalene-d10	1.072	1.016	5.2	58	-0.02
15	t	2-Methylnaphthalene	1.617	1.469	9.2	55	-0.02
16	t	1-Methylnaphthalene	1.522	1.379	9.4	55	-0.02
17	A1	Benzothiophene	2.278	1.931	15.2	51	-0.02
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.93#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.41#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.38#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.13#
22	t	Biphenyl	2.010	1.819	9.5	55	-0.02
23	t	2,6-Dimethylnaphthalene	1.342	1.257	6.3	57	-0.02
24	t	Dibenzofuran	2.258	2.064	8.6	55	-0.02
25	t	Acenaphthylene	2.448	2.234	8.7	55	-0.04
26	t	Acenaphthene	1.521	1.390	8.6	56	-0.02
27	t	2,3,5-Trimethylnaphthalene	1.204	1.155	4.1	59	-0.02
28	A1	Fluorene	1.706	1.596	6.4	58	-0.02
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.06#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.27#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.11#
32	A1	Dibenzothiophene	2.515	2.272	9.7	55	-0.02
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.79#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.15#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.57#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.22#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.80#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.48#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.29#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.99#
41	A1	Phenanthrene	2.529	2.360	6.7	57	-0.02
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.48#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.59#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.74#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.94#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-35.03#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.94#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.76#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.52#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.59#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17975D.D
Acq On : 4 Feb 2006 2:10 pm
Operator : AC
Sample : C1020302A
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 06 06:34:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.80#
52	T	Retene	0.529	0.585	-10.6	69	-0.04
53	t	Anthracene	2.340	2.202	5.9	58	-0.04
54	t	Carbazole	2.166	2.096	3.2	58	-0.04
55	t	1-Methylphenanthrene	1.732	1.692	2.3	60	-0.04
56	A1	Fluoranthene	2.693	2.581	4.2	59	-0.04
57	T	Benzo(b)fluorene	1.572	1.673	-6.4	66	-0.04
58	s	Pyrene-d10	2.204	2.317	-5.1	63	-0.04
59	A1	Pyrene	2.739	2.591	5.4	57	-0.04
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.57#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.38#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.40#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.76#
64	A1	Naphthobenzothiophene	2.562	2.544	0.7	61	-0.04
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.545	0.7	61	-0.04
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.37#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.68#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.44#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.44#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.04#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.12#
72	i	Chrysene-d12	1.000	1.000	0.0	66	-0.04
73	t	Benz[a]anthracene	1.522	1.488	2.2	65	-0.05
74	A1	Chrysene	1.555	1.448	6.9	62	-0.05
75	A2	Chrysene/Triphenylene	1.555	1.448	6.9	62	-0.05
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.61#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.32#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.94#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.41#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-49.00#
81	s	Benzo[b]fluoranthene-d12	0.996	1.030	-3.4	69	-0.05
82	t	Benzo[b]fluoranthene	1.563	1.557	0.4	66	-0.05
83	A1	Benzo[k]fluoranthene	1.626	1.584	2.6	63	-0.05
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.46#
85	t	Benzo[e]pyrene	1.513	1.478	2.3	65	-0.05
86	t	Benzo[a]pyrene	1.497	1.512	-1.0	68	-0.05
87	t	Perylene	1.464	1.472	-0.5	68	-0.05
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.483	-12.5	82	-0.07
89	t	Dibenz[a,h]anthracene	1.343	1.495	-11.3	74	-0.07
90	t	Benzo[g,h,i]perylene	1.518	1.581	-4.2	70	-0.09
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.356	18.9	55	-0.07
92	A2	Hopane (T19)	0.439	0.356	18.9	55	-0.07
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.69#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.40#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.90#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.22#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.97#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.05#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.36#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17975D.D
Acq On : 4 Feb 2006 2:10 pm
Operator : AC
Sample : C1020302A
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 06 06:34:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.52#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-47.04#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.24#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.35#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.45#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.70#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.90#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.10#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.89#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.76#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.86#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.98#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.53#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.93#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.81#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.92#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.14#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.48#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.85#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.61#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.22#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.23#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.15#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.38#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.66#
125	SA1	5B(H)Cholane - Surr	0.196	0.198	-1.0	69	-0.05
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.18#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.60#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.31#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.18#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.68#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.97#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.23#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.39#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.11#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.46#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.37#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.26#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.35#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.56#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.64#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.70#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.74#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17975D.D
Acq On : 4 Feb 2006 2:10 pm
Operator : AC
Sample : C1020302A
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 06 06:34:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/6/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	42579	500.00	ng/mL	-0.02
72) Chrysene-d12	42.98	240	71373	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.20	152	43250	473.81	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.38%#			
58) Pyrene-d10	38.06	212	98639	525.58	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 52.56%			
81) Benzo[b]fluoranthene-d12	46.88	264	73533	517.36	ng/mL	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 51.74%			
125) 5B(H)Cholane - Surr	43.61	217	14101	502.80	ng/ml	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 50.28%			

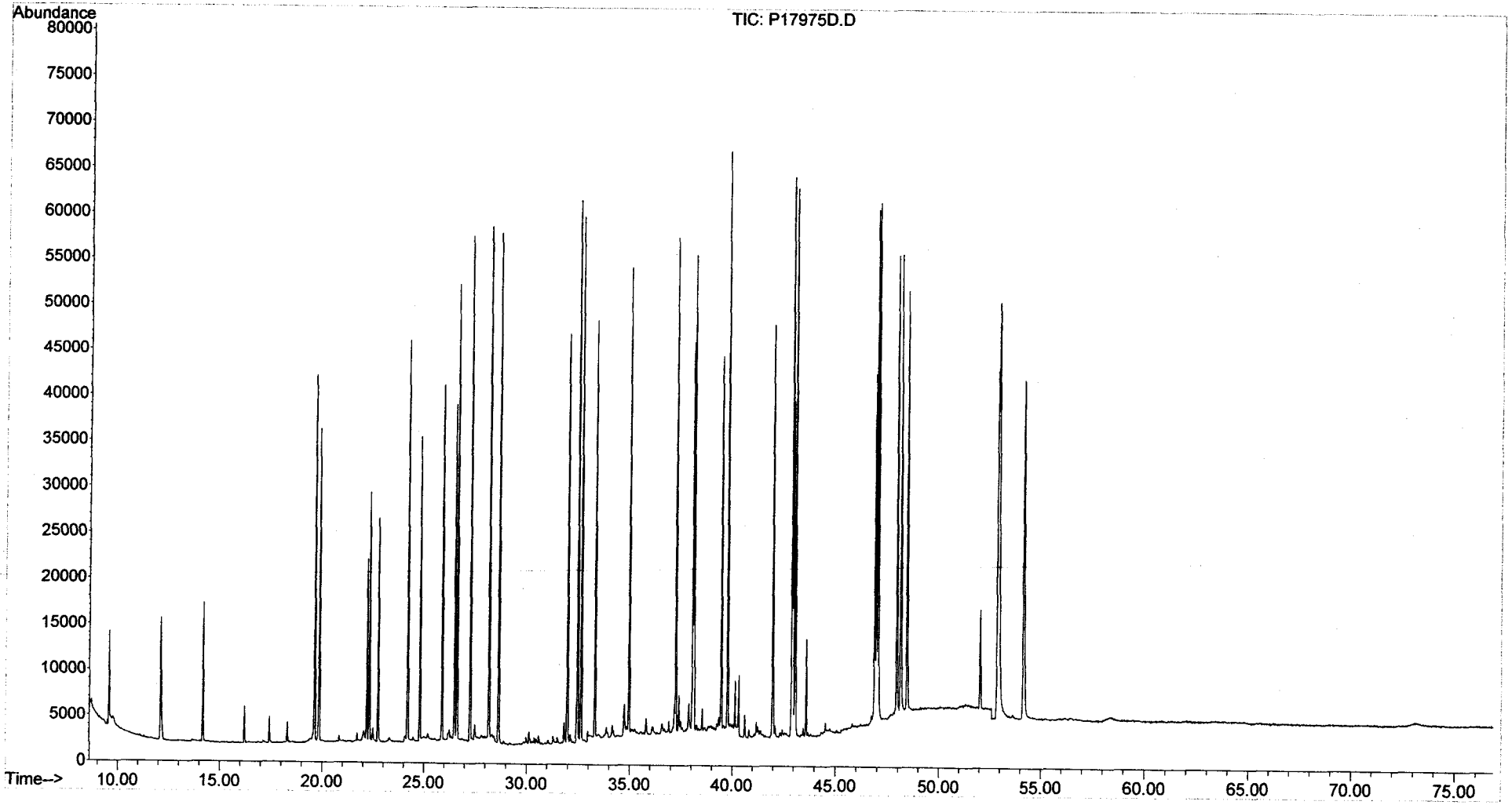
Target Compounds						Qvalue
3) trans-Decalin	16.23	138	8404	228.48	ng/mL	100
4) cis-Decalin	17.44	138	6384	230.66	ng/mL	100
9) Naphthalene	19.63	128	95981	441.40	ng/mL#	100
15) 2-Methylnaphthalene	22.32	142	62552	454.40	ng/mL#	100
16) 1-Methylnaphthalene	22.74	142	58712	453.03	ng/mL#	100
17) Benzothiophene	19.84	134	82231	423.96	ng/mL	100
22) Biphenyl	24.20	154	77447	452.53	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.81	156	53532	468.58	ng/mL#	100
24) Dibenzofuran	27.29	168	87881	457.10	ng/mL	97
25) Acenaphthylene	25.90	152	95109	456.17	ng/mL#	100
26) Acenaphthene	26.64	153	59201	457.11	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.20	170	49194	479.68	ng/mL	97
28) Fluorene	28.66	166	67947	467.80	ng/mL	98
32) Dibenzothiophene	31.98	184	96725	451.57	ng/mL	100
41) Phenanthrene	32.47	178	100493	466.59	ng/mL	99
52) Retene	39.47	234	24916	553.30	ng/mL	96
53) Anthracene	32.65	178	93770	470.56	ng/mL	100
54) Carbazole	33.32	167	89234	483.84	ng/mL	99
55) 1-Methylphenanthrene	34.98	192	72062	488.64	ng/mL	99
56) Fluoranthene	37.24	202	109906	479.27	ng/mL	96
57) Benzo(b)fluorene	39.77	216	71247	532.36	ng/mL	98
59) Pyrene	38.12	202	110305	472.94	ng/mL	99
64) Naphthobenzothiophene	41.99	234	108324	496.45	ng/ml	99
65) Naphthobenzothiophene-2,1-	41.99	234	108384	496.73	ng/mL	99
73) Benz[a]anthracene	42.90	228	106200m	488.80	ng/mL	
74) Chrysene	43.06	228	103330	465.44	ng/mL	99
75) Chrysene/Triphenylene	43.06	228	103330	465.44	ng/mL	99
82) Benzo[b]fluoranthene	46.95	252	111158	498.17	ng/mL	99
83) Benzo[k]fluoranthene	47.04	252	113080	487.14	ng/mL	100
85) Benzo[e]pyrene	47.94	252	105503	488.37	ng/mL	99
86) Benzo[a]pyrene	48.13	252	107944	505.01	ng/mL	99
87) Perylene	48.44	252	105077	502.91	ng/mL	97
88) Indeno[1,2,3-cd]pyrene	52.88	276	105843m	562.69	ng/mL	
89) Dibenz[a,h]anthracene	52.95	278	106693	556.47	ng/mL	98
90) Benzo[g,h,i]perylene	54.15	276	112814	520.47	ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.03	191	25410	405.46	ng/mL	99
92) Hopane (T19)	52.03	191	25410	405.46	ng/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17975D.D
Acq On : 4 Feb 2006 2:10 pm
Operator : AC
Sample : C1020302A
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 06 06:34:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17983.D
Acq On : 4 Feb 2006 10:04 pm
Operator : AC
Sample : C1020303
Misc : PAH STD
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 06 06:39:40 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/6/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	52	-0.02
2	t	Decalin	0.391	0.000#	100.0#	0#	-16.24#
3	A1	trans-Decalin	0.432	0.404	6.5	51	-0.01
4	t	cis-Decalin	0.325	0.307	5.5	51	-0.01
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.18#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.52#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.99#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.38#
9	A1	Naphthalene	2.553	2.282	10.6	47	-0.01
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.36#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.21#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.54#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.30#
14	s	2-Methylnaphthalene-d10	1.072	1.017	5.1	51	-0.02
15	t	2-Methylnaphthalene	1.617	1.494	7.6	49	-0.02
16	t	1-Methylnaphthalene	1.522	1.400	8.0	49	-0.02
17	A1	Benzothiophene	2.278	2.008	11.9	47	-0.02
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.93#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.41#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.38#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.13#
22	t	Biphenyl	2.010	1.869	7.0	49	-0.02
23	t	2,6-Dimethylnaphthalene	1.342	1.272	5.2	51	-0.02
24	t	Dibenzofuran	2.258	2.094	7.3	49	-0.02
25	t	Acenaphthylene	2.448	2.256	7.8	49	-0.04
26	t	Acenaphthene	1.521	1.409	7.4	50	-0.02
27	t	2,3,5-Trimethylnaphthalene	1.204	1.146	4.8	52	-0.02
28	A1	Fluorene	1.706	1.576	7.6	50	-0.02
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.06#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.27#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.11#
32	A1	Dibenzothiophene	2.515	2.293	8.8	49	-0.02
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.79#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.15#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.57#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.22#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.80#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.48#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.29#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.99#
41	A1	Phenanthrene	2.529	2.347	7.2	50	-0.04
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.48#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.59#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.74#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.94#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-35.03#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.94#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.76#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.52#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.59#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17983.D
Acq On : 4 Feb 2006 10:04 pm
Operator : AC
Sample : C1020303
Misc : PAH STD
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 06 06:39:40 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.80#
52	T	Retene	0.529	0.554	-4.7	58	-0.04
53	t	Anthracene	2.340	2.176	7.0	50	-0.04
54	t	Carbazole	2.166	2.033	6.1	49	-0.04
55	t	1-Methylphenanthrene	1.732	1.680	3.0	52	-0.04
56	A1	Fluoranthene	2.693	2.576	4.3	51	-0.04
57	T	Benzo(b)fluorene	1.572	1.577	-0.3	54	-0.04
58	s	Pyrene-d10	2.204	2.297	-4.2	55	-0.04
59	A1	Pyrene	2.739	2.608	4.8	51	-0.04
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.57#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.38#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.40#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.76#
64	A1	Naphthobenzothiophene	2.562	2.460	4.0	52	-0.04
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.461	3.9	52	-0.04
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.37#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.68#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.44#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.44#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.04#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.12#
72	i	Chrysene-d12	1.000	1.000	0.0	56	-0.04
73	t	Benz[a]anthracene	1.522	1.449	4.8	55	-0.04
74	A1	Chrysene	1.555	1.453	6.6	53	-0.05
75	A2	Chrysene/Triphenylene	1.555	1.453	6.6	53	-0.05
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.61#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.32#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.94#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.41#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-49.00#
81	s	Benzo[b]fluoranthene-d12	0.996	1.006	-1.0	58	-0.05
82	t	Benzo[b]fluoranthene	1.563	1.525	2.4	55	-0.05
83	A1	Benzo[k]fluoranthene	1.626	1.557	4.2	53	-0.05
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.46#
85	t	Benzo[e]pyrene	1.513	1.443	4.6	55	-0.05
86	t	Benzo[a]pyrene	1.497	1.424	4.9	55	-0.05
87	t	Perylene	1.464	1.412	3.6	56	-0.05
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.318	0.0	62	-0.07
89	t	Dibenz[a,h]anthracene	1.343	1.411	-5.1	60	-0.07
90	t	Benzo[g,h,i]perylene	1.518	1.519	-0.1	57	-0.09
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.333	24.1	44	-0.07
92	A2	Hopane (T19)	0.439	0.333	24.1	44	-0.07
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.69#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.40#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.90#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.22#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.97#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.05#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.36#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17983.D
Acq On : 4 Feb 2006 10:04 pm
Operator : AC
Sample : C1020303
Misc : PAH STD
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 06 06:39:40 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.52#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-47.04#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.24#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.35#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.45#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.70#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.90#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.10#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.89#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.76#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.86#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.98#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.53#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.93#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.81#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.92#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.14#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.48#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.85#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.61#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.22#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.23#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.15#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.38#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.66#
125	SA1	5B(H)Cholane - Surr	0.196	0.181	7.7	54	-0.05
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.18#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.60#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.31#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.18#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.68#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.97#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.23#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.39#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.11#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.46#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.37#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.26#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.35#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.56#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.64#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.70#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.74#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17983.D
Acq On : 4 Feb 2006 10:04 pm
Operator : AC
Sample : C1020303
Misc : PAH STD
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 06 06:39:40 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/6/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	37368	500.00	ng/mL	-0.02
72) Chrysene-d12	42.98	240	61319	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.20	152	37991	474.24	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.42%#			
58) Pyrene-d10	38.06	212	85842	521.18	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 52.12%			
81) Benzo[b]fluoranthene-d12	46.88	264	61707	505.34	ng/mL	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 50.53%			
125) 5B(H)Cholane - Surr	43.61	217	11127	461.81	ng/ml	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 46.18%#			

Target Compounds						Qvalue
3) trans-Decalin	16.23	138	7551	233.92	ng/mL	100
4) cis-Decalin	17.44	138	5736	236.15	ng/mL	100
9) Naphthalene	19.63	128	85260	446.78	ng/mL#	100
15) 2-Methylnaphthalene	22.32	142	55818	462.03	ng/mL#	100
16) 1-Methylnaphthalene	22.74	142	52312	459.94	ng/mL#	100
17) Benzothiophene	19.84	134	75034	440.80	ng/mL	100
22) Biphenyl	24.20	154	69849	465.05	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.81	156	47532	474.08	ng/mL#	100
24) Dibenzofuran	27.29	168	78260	463.82	ng/mL	98
25) Acenaphthylene	25.90	152	84317	460.80	ng/mL#	100
26) Acenaphthene	26.64	153	52665	463.36	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.20	170	42809	475.63	ng/mL	98
28) Fluorene	28.66	166	58904m	462.10	ng/mL	
32) Dibenzothiophene	31.98	184	85701	455.90	ng/mL	100
41) Phenanthrene	32.46	178	87721	464.09	ng/mL	99
52) Retene	39.47	234	20709	524.00	ng/mL	94
53) Anthracene	32.65	178	81318	464.98	ng/mL	99
54) Carbazole	33.32	167	75966	469.34	ng/mL	99
55) 1-Methylphenanthrene	34.98	192	62766	484.96	ng/mL	98
56) Fluoranthene	37.24	202	96262	478.31	ng/mL	100
57) Benzo(b)fluorene	39.77	216	58940	501.81	ng/mL	98
59) Pyrene	38.12	202	97457	476.12	ng/mL	99
64) Naphthobenzothiophene	41.99	234	91943	480.14	ng/ml	98
65) Naphthobenzothiophene-2,1-	41.99	234	91961	480.24	ng/mL	98
73) Benz[a]anthracene	42.92	228	88854	476.02	ng/mL	98
74) Chrysene	43.06	228	89069	466.99	ng/mL	98
75) Chrysene/Triphenylene	43.06	228	89069	466.99	ng/mL	98
82) Benzo[b]fluoranthene	46.95	252	93522	487.85	ng/mL	99
83) Benzo[k]fluoranthene	47.04	252	95489	478.80	ng/mL	100
85) Benzo[e]pyrene	47.94	252	88505	476.86	ng/mL	100
86) Benzo[a]pyrene	48.13	252	87333	475.57	ng/mL	99
87) Perylene	48.44	252	86559	482.21	ng/mL	99
88) Indeno[1,2,3-cd]pyrene	52.88	276	80840m	500.24	ng/mL	
89) Dibenz[a,h]anthracene	52.95	278	86500	525.12	ng/mL	97
90) Benzo[g,h,i]perylene	54.15	276	93134	500.13	ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.03	191	20421	379.28	ng/mL	100
92) Hopane (T19)	52.03	191	20421	379.28	ng/mL	100

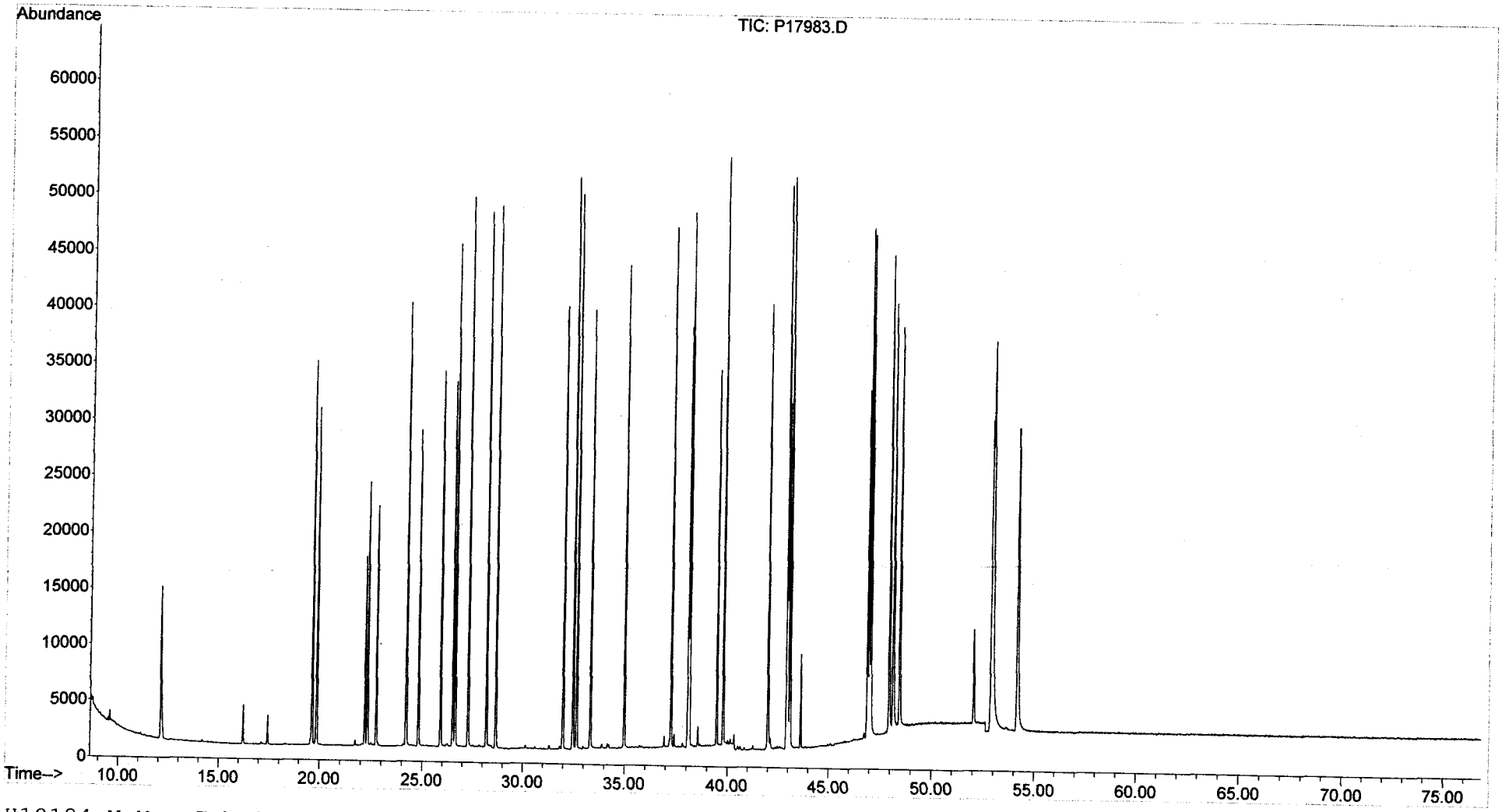
(#) = qualifier out of range (m) = manual integration (+) = signals summed

PAH10104.M Mon Feb 06 06:40:13 2006

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17983.D
Acq On : 4 Feb 2006 10:04 pm
Operator : AC
Sample : C1020303
Misc : PAH STD
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 06 06:39:40 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17995.D
Acq On : 5 Feb 2006 7:35 am
Operator : AC
Sample : C1020304
Misc : PAH STD
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 06 06:45:19 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

MS 2/6/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	53	-0.02
2	t	Decalin	0.391	0.000#	100.0#	0#	-16.24#
3	A1	trans-Decalin	0.432	0.392	9.3	49	-0.01
4	t	cis-Decalin	0.325	0.302	7.1	50	-0.01
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.18#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.52#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.99#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.38#
9	A1	Naphthalene	2.553	2.249	11.9	47	-0.01
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.36#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.21#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.54#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.30#
14	s	2-Methylnaphthalene-d10	1.072	1.029	4.0	52	-0.01
15	t	2-Methylnaphthalene	1.617	1.482	8.3	49	-0.01
16	t	1-Methylnaphthalene	1.522	1.393	8.5	49	-0.01
17	A1	Benzothiophene	2.278	1.960	14.0	46	-0.01
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.93#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.41#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.38#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.13#
22	t	Biphenyl	2.010	1.846	8.2	49	-0.01
23	t	2,6-Dimethylnaphthalene	1.342	1.270	5.4	51	-0.01
24	t	Dibenzofuran	2.258	2.087	7.6	50	-0.02
25	t	Acenaphthylene	2.448	2.344	4.2	51	-0.02
26	t	Acenaphthene	1.521	1.411	7.2	50	-0.02
27	t	2,3,5-Trimethylnaphthalene	1.204	1.168	3.0	53	-0.02
28	A1	Fluorene	1.706	1.582	7.3	50	-0.02
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.06#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.27#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.11#
32	A1	Dibenzothiophene	2.515	2.302	8.5	49	-0.02
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.79#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.15#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.57#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.22#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.80#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.48#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.29#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.99#
41	A1	Phenanthrene	2.529	2.372	6.2	51	-0.02
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.48#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.59#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.74#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.94#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-35.03#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.94#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.76#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.52#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.59#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17995.D
Acq On : 5 Feb 2006 7:35 am
Operator : AC
Sample : C1020304
Misc : PAH STD
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 06 06:45:19 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.80#
52	T	Retene	0.529	0.601	-13.6	63	-0.02
53	t	Anthracene	2.340	2.230	4.7	52	-0.02
54	t	Carbazole	2.166	2.105	2.8	51	-0.02
55	t	1-Methylphenanthrene	1.732	1.703	1.7	53	-0.02
56	A1	Fluoranthene	2.693	2.625	2.5	53	-0.02
57	T	Benzo(b)fluorene	1.572	1.728	-9.9	60	-0.04
58	s	Pyrene-d10	2.204	2.379	-7.9	58	-0.04
59	A1	Pyrene	2.739	2.634	3.8	52	-0.02
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.57#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.38#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.40#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.76#
64	A1	Naphthobenzothiophene	2.562	2.598	-1.4	55	-0.04
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.598	-1.4	55	-0.04
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.37#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.68#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.44#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.44#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.04#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.12#
72	i	Chrysene-d12	1.000	1.000	0.0	59	-0.04
73	t	Benz[a]anthracene	1.522	1.519	0.2	60	-0.04
74	A1	Chrysene	1.555	1.465	5.8	56	-0.04
75	A2	Chrysene/Triphenylene	1.555	1.465	5.8	56	-0.04
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.61#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.32#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.94#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.41#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-49.00#
81	s	Benzo[b]fluoranthene-d12	0.996	1.054	-5.8	63	-0.04
82	t	Benzo[b]fluoranthene	1.563	1.644	-5.2	62	-0.04
83	A1	Benzo[k]fluoranthene	1.626	1.602	1.5	57	-0.04
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.46#
85	t	Benzo[e]pyrene	1.513	1.511	0.1	60	-0.04
86	t	Benzo[a]pyrene	1.497	1.575	-5.2	63	-0.04
87	t	Perylene	1.464	1.520	-3.8	62	-0.04
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.508	-14.4	74	-0.05
89	t	Dibenz[a,h]anthracene	1.343	1.590	-18.4	70	-0.06
90	t	Benzo[g,h,i]perylene	1.518	1.659	-9.3	65	-0.06
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.369	15.9	51	-0.06
92	A2	Hopane (T19)	0.439	0.369	15.9	51	-0.06
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.69#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.40#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.90#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.22#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.97#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.05#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.36#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17995.D
Acq On : 5 Feb 2006 7:35 am
Operator : AC
Sample : C1020304
Misc : PAH STD
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 06 06:45:19 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.52#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-47.04#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.24#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.35#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.45#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.70#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.90#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.10#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.89#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.76#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.86#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.98#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.53#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.93#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.81#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.92#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.14#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.48#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.85#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.61#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.22#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.23#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.15#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.38#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.66#
125	SA1	5B(H)Cholane - Surr	0.196	0.194	1.0	60	-0.04
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.18#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.60#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.31#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.18#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.68#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.97#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.23#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.39#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.11#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.46#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.37#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.26#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.35#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.56#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.64#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.70#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.74#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17995.D
Acq On : 5 Feb 2006 7:35 am
Operator : AC
Sample : C1020304
Misc : PAH STD
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 06 06:45:19 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	37690	500.00	ng/mL	-0.02
72) Chrysene-d12	42.98	240	63867	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.21	152	38790	480.08	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.01%#			
58) Pyrene-d10	38.06	212	89655	539.68	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 53.97%			
81) Benzo[b]fluoranthene-d12	46.89	264	67310	529.24	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 52.92%			
125) 5B(H)Cholane - Surr	43.62	217	12380	493.32	ng/ml	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 49.33%#			

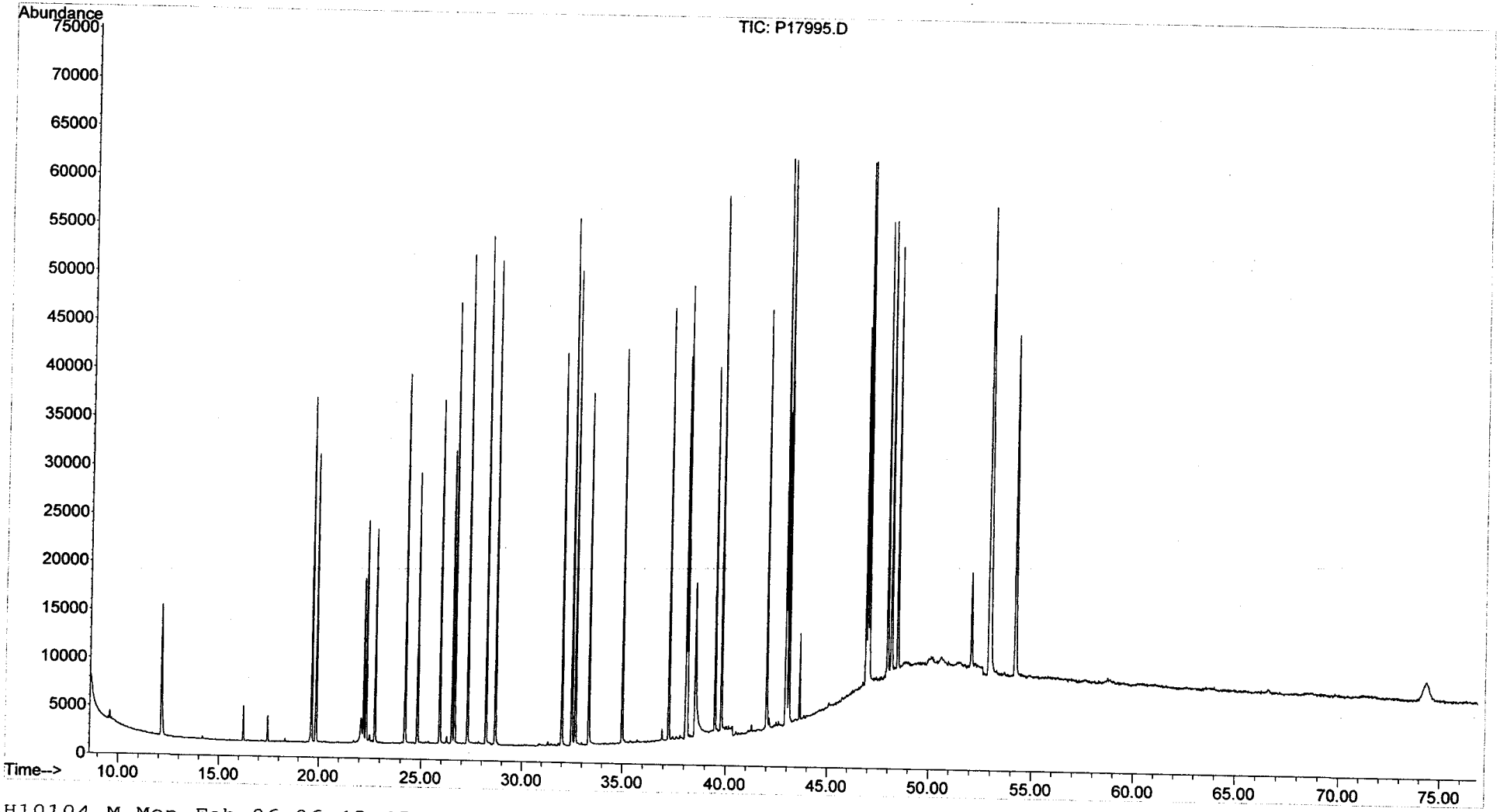
Target Compounds						Qvalue
3) trans-Decalin	16.23	138	7382	226.73	ng/mL	100
4) cis-Decalin	17.44	138	5683	231.97	ng/mL	100
9) Naphthalene	19.63	128	84748	440.30	ng/mL#	100
15) 2-Methylnaphthalene	22.33	142	55866	458.47	ng/mL#	100
16) 1-Methylnaphthalene	22.75	142	52495	457.61	ng/mL#	100
17) Benzothiophene	19.85	134	73862	430.21	ng/mL	100
22) Biphenyl	24.21	154	69565	459.20	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.82	156	47883	473.50	ng/mL#	100
24) Dibenzofuran	27.29	168	78654	462.17	ng/mL	97
25) Acenaphthylene	25.91	152	88349	478.71	ng/mL#	100
26) Acenaphthene	26.64	153	53182	463.91	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.20	170	44030	485.02	ng/mL	96
28) Fluorene	28.66	166	59627	463.77	ng/mL	100
32) Dibenzothiophene	31.98	184	86753	457.55	ng/mL	100
41) Phenanthrene	32.47	178	89401	468.94	ng/mL	99
52) Retene	39.48	234	22657	568.40	ng/mL	95
53) Anthracene	32.66	178	84062	476.57	ng/mL	99
54) Carbazole	33.33	167	79352	486.07	ng/mL	99
55) 1-Methylphenanthrene	34.99	192	64180	491.65	ng/mL	99
56) Fluoranthene	37.25	202	98930	487.36	ng/mL	97
57) Benzo(b)fluorene	39.77	216	65137	549.84	ng/mL	98
59) Pyrene	38.13	202	99284	480.90	ng/mL	97
64) Naphthobenzothiophene	41.99	234	97931	507.04	ng/ml	99
65) Naphthobenzothiophene-2,1-	41.99	234	97931	507.04	ng/mL	99
73) Benz[a]anthracene	42.92	228	97009	498.97	ng/mL	100
74) Chrysene	43.08	228	93561	470.97	ng/mL	99
75) Chrysene/Triphenylene	43.08	228	93561	470.97	ng/mL	99
82) Benzo[b]fluoranthene	46.97	252	105026	526.01	ng/mL	100
83) Benzo[k]fluoranthene	47.05	252	102343	492.70	ng/mL	100
85) Benzo[e]pyrene	47.96	252	96523	499.31	ng/mL	100
86) Benzo[a]pyrene	48.14	252	100591	525.92	ng/mL	99
87) Perylene	48.45	252	97081	519.25	ng/mL	99
88) Indeno[1,2,3-cd]pyrene	52.90	276	96327m	572.29	ng/mL	
89) Dibenz[a,h]anthracene	52.96	278	101574	592.03	ng/mL	98
90) Benzo[g,h,i]perylene	54.18	276	105985	546.43	ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.05	191	23543	419.82	ng/mL	96
92) Hopane (T19)	52.05	191	23543	419.82	ng/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03\
Data File : P17995.D
Acq On : 5 Feb 2006 7:35 am
Operator : AC
Sample : C1020304
Misc : PAH STD
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 06 06:45:19 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB06\
Data File : P17985A.D ms 2/7/06
Acq On : 6 Feb 2006 11:26 am
Operator : AC
Sample : C1020601
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

2/6/06

Quant Time: Feb 06 14:26:29 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	50	-0.02
2	t	Decalin	0.391	0.351	10.2	48	-0.01
3	A1	trans-Decalin	0.432	0.395	8.6	47	-0.01
4	t	cis-Decalin	0.325	0.298	8.3	47	-0.01
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.18#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.52#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.99#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.38#
9	A1	Naphthalene	2.553	2.293	10.2	45	-0.01
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.36#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.21#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.54#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.30#
14	s	2-Methylnaphthalene-d10	1.072	1.021	4.8	49	-0.02
15	t	2-Methylnaphthalene	1.617	1.498	7.4	47	-0.02
16	t	1-Methylnaphthalene	1.522	1.417	6.9	47	-0.01
17	A1	Benzothiophene	2.278	2.020	11.3	45	-0.01
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.93#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.41#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.38#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.13#
22	t	Biphenyl	2.010	1.872	6.9	47	-0.02
23	t	2,6-Dimethylnaphthalene	1.342	1.284	4.3	49	-0.01
24	t	Dibenzofuran	2.258	2.146	5.0	49	-0.02
25	t	Acenaphthylene	2.448	2.342	4.3	49	-0.02
26	t	Acenaphthene	1.521	1.435	5.7	48	-0.02
27	t	2,3,5-Trimethylnaphthalene	1.204	1.152	4.3	50	-0.02
28	A1	Fluorene	1.706	1.668	2.2	51	-0.02
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.06#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.27#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.11#
32	A1	Dibenzothiophene	2.515	2.337	7.1	48	-0.02
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.79#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.15#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.57#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.22#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.80#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.48#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.29#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.99#
41	A1	Phenanthrene	2.529	2.397	5.2	49	-0.02
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.48#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.59#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.74#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.94#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-35.03#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.94#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.76#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.52#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.59#

Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB06\
Data File : P17985AD mg 2/7/06
Acq On : 6 Feb 2006 11:26 am
Operator : AC
Sample : C1020601
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 06 14:26:29 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.80#
52	T	Retene	0.529	0.559	-5.7	56	-0.04
53	t	Anthracene	2.340	2.249	3.9	50	-0.02
54	t	Carbazole	2.166	2.081	3.9	48	-0.02
55	t	1-Methylphenanthrene	1.732	1.686	2.7	50	-0.02
56	A1	Fluoranthene	2.693	2.588	3.9	49	-0.04
57	T	Benzo(b)fluorene	1.572	1.610	-2.4	53	-0.04
58	s	Pyrene-d10	2.204	2.271	-3.0	52	-0.04
59	A1	Pyrene	2.739	2.642	3.5	49	-0.02
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.57#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.38#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.40#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.76#
64	A1	Naphthobenzothiophene	2.562	2.509	2.1	51	-0.04
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.510	2.0	51	-0.04
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.37#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.68#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.44#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.44#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.04#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.12#
72	i	Chrysene-d12	1.000	1.000	0.0	53	-0.04
73	t	Benz[a]anthracene	1.522	1.525	-0.2	54	-0.04
74	A1	Chrysene	1.555	1.480	4.8	51	-0.04
75	A2	Chrysene/Triphenylene	1.555	1.476	5.1	51	-0.04
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.61#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.32#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.94#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.41#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-49.00#
81	s	Benzo[b]fluoranthene-d12	0.996	1.019	-2.3	54	-0.04
82	t	Benzo[b]fluoranthene	1.563	1.575	-0.8	53	-0.04
83	A1	Benzo[k]fluoranthene	1.626	1.649	-1.4	53	-0.04
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.46#
85	t	Benzo[e]pyrene	1.513	1.514	-0.1	54	-0.04
86	t	Benzo[a]pyrene	1.497	1.535	-2.5	55	-0.04
87	t	Perylene	1.464	1.491	-1.8	55	-0.04
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.517	-15.1	67	-0.06
89	t	Dibenz[a,h]anthracene	1.343	1.509	-12.4	60	-0.06
90	t	Benzo[g,h,i]perylene	1.518	1.590	-4.7	56	-0.07
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.362	17.5	45	-0.06
92	A2	Hopane (T19)	0.439	0.362	17.5	45	-0.06
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.69#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.40#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.90#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.22#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.97#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.05#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.36#

Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB06\
Data File : P17985A.D 2/7/06
Acq On : 6 Feb 2006 11:26 am
Operator : AC
Sample : C1020601
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 06 14:26:29 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.52#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-47.04#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.24#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.35#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.45#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.70#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.90#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.10#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.89#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.76#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.86#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.98#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.53#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.93#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.81#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.92#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.14#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.48#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.85#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.61#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.22#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.23#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.15#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.38#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.66#
125	SA1	5B(H)Cholane - Surr	0.196	0.187	4.6	52	-0.04
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.18#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.60#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.31#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.18#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.68#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.97#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.23#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.39#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.11#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.46#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.37#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.26#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.35#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.56#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.64#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.70#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.74#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB06\
Data File : P17985AD MS 2/7/06
Acq On : 6 Feb 2006 11:26 am
Operator : AC
Sample : C1020601
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

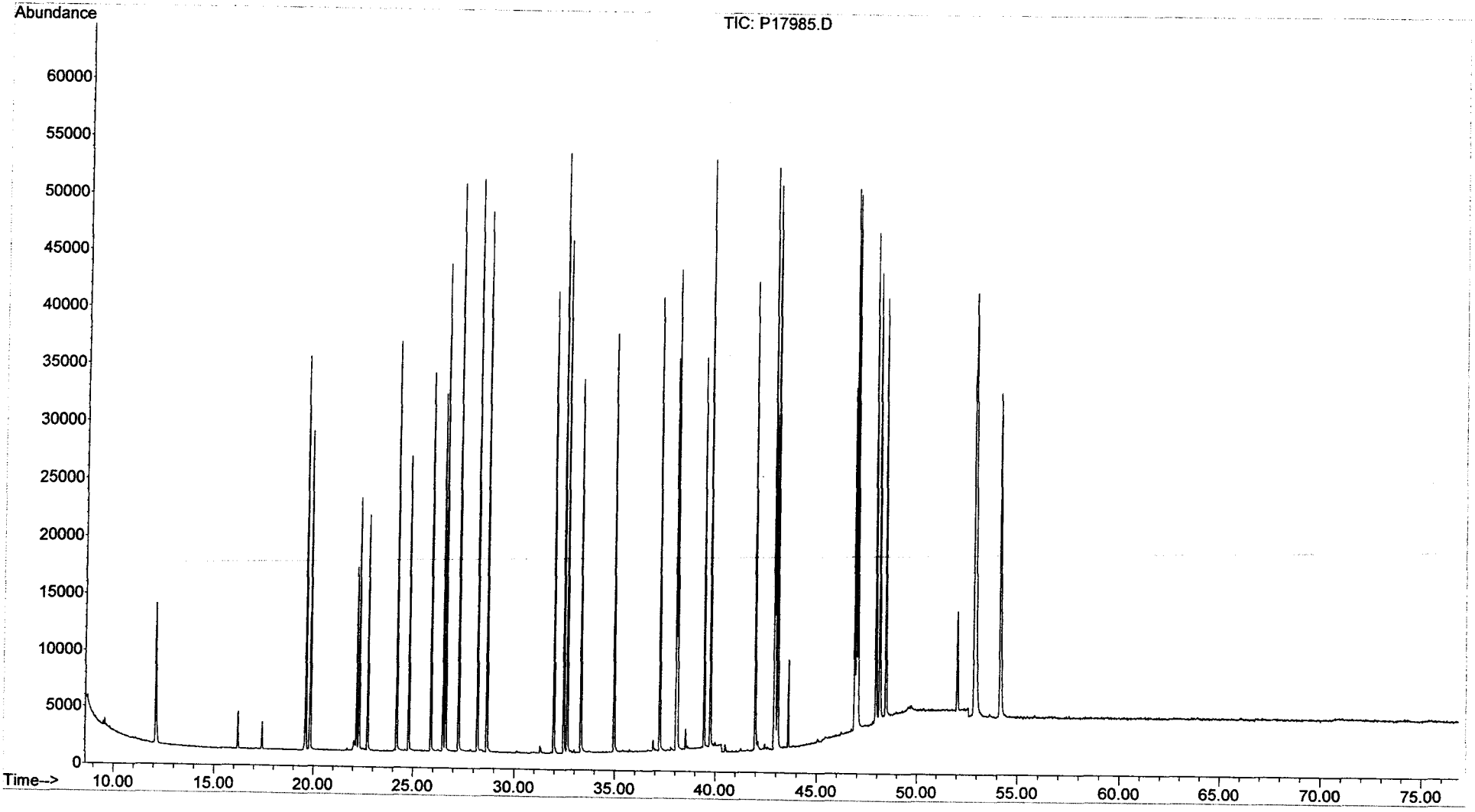
Quant Time: Feb 06 14:26:29 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	35823	500.00	ng/mL	-0.02
72) Chrysene-d12	42.98	240	57210	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.20	152	36571	476.20	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.62%#			
58) Pyrene-d10	38.06	212	81350	515.21	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 51.52%			
81) Benzo[b]fluoranthene-d12	46.89	264	58316	511.88	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 51.19%			
125) 5B(H)Cholane - Surr	43.62	217	10698	475.90	ng/ml	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.59%#			
Target Compounds						Qvalue
2) Decalin	16.23	138	12564m	448.02	ng/mL	
3) trans-Decalin	16.23	138	7069	228.43	ng/mL	100
4) cis-Decalin	17.44	138	5337	229.20	ng/mL	100
9) Naphthalene	19.63	128	82154	449.07	ng/mL#	100
15) 2-Methylnaphthalene	22.32	142	53670	463.41	ng/mL#	100
16) 1-Methylnaphthalene	22.75	142	50759	465.53	ng/mL#	100
17) Benzothiophene	19.85	134	72349	443.36	ng/mL	100
22) Biphenyl	24.20	154	67064	465.76	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.82	156	45983	478.41	ng/mL#	100
24) Dibenzofuran	27.29	168	76870	475.23	ng/mL	97
25) Acenaphthylene	25.91	152	83907	478.34	ng/mL#	100
26) Acenaphthene	26.64	153	51397	471.70	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.20	170	41284	478.47	ng/mL	100
28) Fluorene	28.66	166	59742	488.89	ng/mL	96
32) Dibenzothiophene	31.98	184	83723	464.58	ng/mL	99
41) Phenanthrene	32.47	178	85864	473.86	ng/mL	100
52) Retene	39.47	234	20020	528.42	ng/mL	95
53) Anthracene	32.66	178	80552	480.47	ng/mL	99
54) Carbazole	33.33	167	74548	480.44	ng/mL	99
55) 1-Methylphenanthrene	34.99	192	60383	486.67	ng/mL	99
56) Fluoranthene	37.24	202	92712	480.54	ng/mL	98
57) Benzo(b)fluorene	39.77	216	57665	512.13	ng/mL	99
59) Pyrene	38.13	202	94633	482.26	ng/mL	98
64) Naphthobenzothiophene	41.99	234	89870	489.56	ng/ml	99
65) Naphthobenzothiophene-2,1-	41.99	234	89922	489.84	ng/mL	99
73) Benz[a]anthracene	42.92	228	87245	500.97	ng/mL	99
74) Chrysene	43.08	228	84685m	475.89	ng/mL	
75) Chrysene/Triphenylene	43.08	228	84432	474.47	ng/mL	100
82) Benzo[b]fluoranthene	46.97	252	90083	503.66	ng/mL	98
83) Benzo[k]fluoranthene	47.05	252	94334	506.98	ng/mL	98
85) Benzo[e]pyrene	47.96	252	86618	500.21	ng/mL	100
86) Benzo[a]pyrene	48.14	252	87814	512.54	ng/mL	99
87) Perylene	48.45	252	85286	509.24	ng/mL	99
88) Indeno[1,2,3-cd]pyrene	52.89	276	86776m	575.53	ng/mL	
89) Dibenz[a,h]anthracene	52.96	278	86321	561.67	ng/mL	97
90) Benzo[g,h,i]perylene	54.16	276	90942	523.43	ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.05	191	20699	412.06	ng/mL	99
92) Hopane (T19)	52.05	191	20699	412.06	ng/mL	99

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\FEBRUARY06\FEB06\
Data File : P17985A.D MS 2/7/06
Acq On : 6 Feb 2006 11:26 am
Operator : AC
Sample : C1020601
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 06 14:26:29 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 06:34:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB06\
Data File : P17999.D
Acq On : 6 Feb 2006 10:29 pm
Operator : AC
Sample : C1020602
Misc : PAH STD
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 07 06:19:56 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MG 2/7/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	49	0.00
2	t	Decalin	0.391	0.000#	100.0#	0#	-16.23#
3	A1	trans-Decalin	0.432	0.399	7.6	46	0.00
4	t	cis-Decalin	0.325	0.301	7.4	46	-0.01
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.17#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.48#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.96#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.34#
9	A1	Naphthalene	2.553	2.342	8.3	45	0.00
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.35#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.20#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.53#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.29#
14	s	2-Methylnaphthalene-d10	1.072	1.019	4.9	47	0.00
15	t	2-Methylnaphthalene	1.617	1.510	6.6	46	0.00
16	t	1-Methylnaphthalene	1.522	1.448	4.9	47	-0.01
17	A1	Benzothiophene	2.278	2.075	8.9	45	-0.01
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.90#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.37#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.35#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.45#
22	t	Biphenyl	2.010	1.888	6.1	46	0.00
23	t	2,6-Dimethylnaphthalene	1.342	1.305	2.8	48	-0.01
24	t	Dibenzofuran	2.258	2.166	4.1	47	0.00
25	t	Acenaphthylene	2.448	2.353	3.9	48	-0.01
26	t	Acenaphthene	1.521	1.440	5.3	47	0.00
27	t	2,3,5-Trimethylnaphthalene	1.204	1.171	2.7	49	0.00
28	A1	Fluorene	1.706	1.623	4.9	48	0.00
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.04#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.23#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.06#
32	A1	Dibenzothiophene	2.515	2.357	6.3	47	0.00
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.76#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.11#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.53#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.20#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.76#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.45#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.26#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.97#
41	A1	Phenanthrene	2.529	2.399	5.1	47	0.00
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.44#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.56#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.72#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.90#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-34.99#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.90#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.72#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.49#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.56#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB06\
Data File : P17999.D
Acq On : 6 Feb 2006 10:29 pm
Operator : AC
Sample : C1020602
Misc : PAH STD
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 07 06:19:56 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.75#
52	T	Retene	0.529	0.531	-0.4	51	0.00
53	t	Anthracene	2.340	2.258	3.5	48	0.00
54	t	Carbazole	2.166	2.098	3.1	47	0.00
55	t	1-Methylphenanthrene	1.732	1.682	2.9	49	-0.01
56	A1	Fluoranthene	2.693	2.574	4.4	48	0.00
57	T	Benzo(b)fluorene	1.572	1.592	-1.3	51	0.00
58	s	Pyrene-d10	2.204	2.239	-1.6	50	0.00
59	A1	Pyrene	2.739	2.636	3.8	48	-0.01
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.53#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.34#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.36#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.74#
64	A1	Naphthobenzothiophene	2.562	2.477	3.3	48	0.00
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.477	3.3	48	0.00
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.33#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.64#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.40#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.42#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.02#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.10#
72	i	Chrysene-d12	1.000	1.000	0.0	50	0.00
73	t	Benz[a]anthracene	1.522	1.501	1.4	50	0.00
74	A1	Chrysene	1.555	1.488	4.3	48	0.00
75	A2	Chrysene/Triphenylene	1.555	1.488	4.3	48	0.00
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.56#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.29#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.91#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.33#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-48.98#
81	s	Benzo[b]fluoranthene-d12	0.996	0.981	1.5	50	-0.01
82	t	Benzo[b]fluoranthene	1.563	1.551	0.8	50	0.00
83	A1	Benzo[k]fluoranthene	1.626	1.617	0.6	49	0.00
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.41#
85	t	Benzo[e]pyrene	1.513	1.473	2.6	49	0.00
86	t	Benzo[a]pyrene	1.497	1.491	0.4	51	0.00
87	t	Perylene	1.464	1.439	1.7	50	0.00
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.321	-0.2	55	0.00
89	t	Dibenz[a,h]anthracene	1.343	1.419	-5.7	53	-0.01
90	t	Benzo[g,h,i]perylene	1.518	1.508	0.7	50	0.01
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.346	21.2	40	0.00
92	A2	Hopane (T19)	0.439	0.346	21.2	40	0.00
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.65#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.38#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.87#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.18#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.93#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.02#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.31#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB06\
Data File : P17999.D
Acq On : 6 Feb 2006 10:29 pm
Operator : AC
Sample : C1020602
Misc : PAH STD
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 07 06:19:56 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.48#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.99#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.19#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.30#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.40#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.65#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.85#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.03#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.84#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.70#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.79#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.93#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.48#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.86#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.75#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.83#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.08#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.39#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.78#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.51#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.12#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.12#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.03#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.26#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.53#
125	SA1	5B(H)Cholane - Surr	0.196	0.181	7.7	48	-0.01
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.15#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.57#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.26#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.13#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.65#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.92#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.19#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.34#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.06#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.41#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.30#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.21#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.30#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.52#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.59#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-48.59#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.64#
			0.196	0.000#	100.0#	0#	-49.69#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB06\
Data File : P17999.D
Acq On : 6 Feb 2006 10:29 pm
Operator : AC
Sample : C1020602
Misc : PAH STD
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 07 06:19:56 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

CMS 2/7/04

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.52	164	34685	500.00	ng/mL	0.00
72) Chrysene-d12	42.98	240	54139	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.20	152	35329	475.12	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.51%#			
58) Pyrene-d10	38.06	212	77671	508.05	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 50.81%			
81) Benzo[b]fluoranthene-d12	46.88	264	53098	492.51	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 49.25%#			
125) 5B(H)Cholane - Surr	43.61	217	9799	460.63	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 46.06%#			
Target Compounds						Qvalue
3) trans-Decalin	16.23	138	6928	231.22	ng/mL	100
4) cis-Decalin	17.43	138	5224	231.71	ng/mL	100
9) Naphthalene	19.63	128	81235	458.61	ng/mL#	100
15) 2-Methylnaphthalene	22.32	142	52390	467.20	ng/mL#	100
16) 1-Methylnaphthalene	22.74	142	50230	475.80	ng/mL#	100
17) Benzothiophene	19.84	134	71974	455.53	ng/mL	100
22) Biphenyl	24.20	154	65485	469.72	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.81	156	45252	486.25	ng/mL#	100
24) Dibenzofuran	27.29	168	75140	479.77	ng/mL	98
25) Acenaphthylene	25.90	152	81625	480.60	ng/mL#	100
26) Acenaphthene	26.64	153	49936	473.33	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.20	170	40608	486.08	ng/mL	98
28) Fluorene	28.66	166	56305m	475.88	ng/mL	
32) Dibenzothiophene	31.98	184	81745	468.49	ng/mL	100
41) Phenanthrene	32.47	178	83215	474.30	ng/mL	99
52) Retene	39.47	234	18415	502.00	ng/mL	99
53) Anthracene	32.66	178	78328	482.53	ng/mL	100
54) Carbazole	33.33	167	72759	484.29	ng/mL	99
55) 1-Methylphenanthrene	34.98	192	58323	485.49	ng/mL	99
56) Fluoranthene	37.24	202	89276	477.91	ng/mL	98
57) Benzo(b)fluorene	39.77	216	55205	506.37	ng/mL	98
59) Pyrene	38.12	202	91424	481.20	ng/mL	99
64) Naphthobenzothiophene	41.99	234	85900	483.28	ng/ml	99
65) Naphthobenzothiophene-2,1-	41.99	234	85900	483.28	ng/mL	99
73) Benz[a]anthracene	42.92	228	81238	492.94	ng/mL	99
74) Chrysene	43.08	228	80585	478.54	ng/mL	98
75) Chrysene/Triphenylene	43.08	228	80585	478.54	ng/mL	98
82) Benzo[b]fluoranthene	46.97	252	83993	496.25	ng/mL	99
83) Benzo[k]fluoranthene	47.05	252	87540	497.16	ng/mL	100
85) Benzo[e]pyrene	47.96	252	79743	486.63	ng/mL	99
86) Benzo[a]pyrene	48.14	252	80734	497.94	ng/mL	100
87) Perylene	48.45	252	77920	491.65	ng/mL	99
88) Indeno[1,2,3-cd]pyrene	52.89	276	71516m	501.23	ng/mL	
89) Dibenz[a,h]anthracene	52.95	278	76833	528.29	ng/mL	99
90) Benzo[g,h,i]perylene	54.18	276	81655	496.64	ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.05	191	18737	394.16	ng/mL	97
92) Hopane (T19)	52.05	191	18737	394.16	ng/mL	97

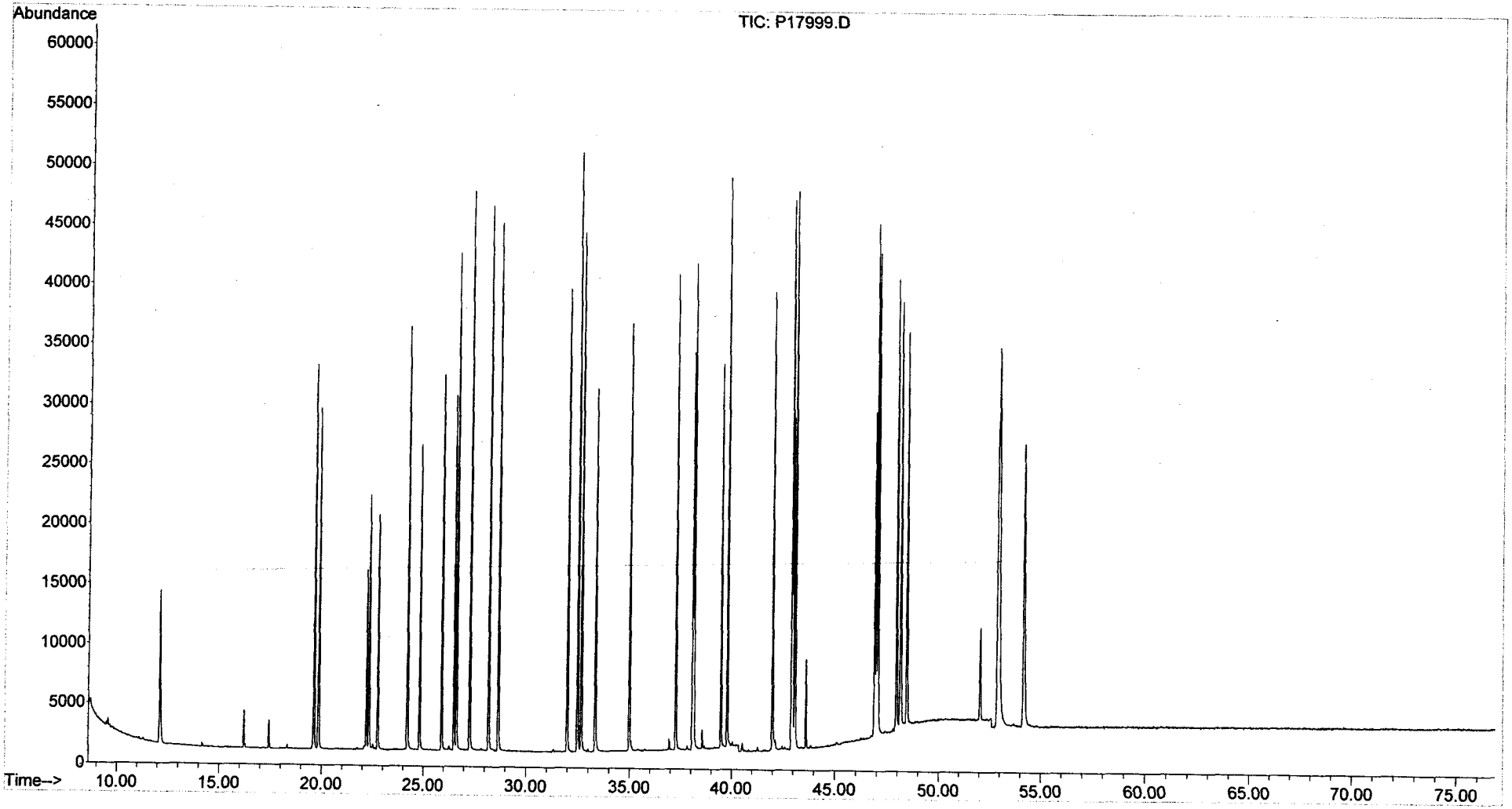
(#) = qualifier out of range (m) = manual integration (+) = signals summed

PAH10104.M Tue Feb 07 06:20:26 2006

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB06\
Data File : P17999.D
Acq On : 6 Feb 2006 10:29 pm
Operator : AC
Sample : C1020602
Misc : PAH STD
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 07 06:19:56 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18047.D
Acq On : 8 Feb 2006 5:01 pm
Operator : AC
Sample : C1020801
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 06:53:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

CNS 2/9/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	81	-0.01
2	t	Decalin	0.391	0.000#	100.0#	0#	-16.23#
3	A1	trans-Decalin	0.432	0.402	6.9	78	-0.01
4	t	cis-Decalin	0.325	0.309	4.9	80	-0.02
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.17#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.48#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.96#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.34#
9	A1	Naphthalene	2.553	2.322	9.0	74	-0.01
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.35#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.20#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.53#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.29#
14	s	2-Methylnaphthalene-d10	1.072	1.014	5.4	78	-0.01
15	t	2-Methylnaphthalene	1.617	1.512	6.5	77	-0.01
16	t	1-Methylnaphthalene	1.522	1.422	6.6	77	-0.02
17	A1	Benzothiophene	2.278	2.001	12.2	72	-0.02
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.90#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.37#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.35#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.45#
22	t	Biphenyl	2.010	1.856	7.7	76	-0.01
23	t	2,6-Dimethylnaphthalene	1.342	1.301	3.1	80	-0.02
24	t	Dibenzofuran	2.258	2.091	7.4	76	-0.02
25	t	Acenaphthylene	2.448	2.314	5.5	78	-0.02
26	t	Acenaphthene	1.521	1.418	6.8	77	-0.01
27	t	2,3,5-Trimethylnaphthalene	1.204	1.157	3.9	81	-0.02
28	A1	Fluorene	1.706	1.612	5.5	79	-0.02
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.04#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.23#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.06#
32	A1	Dibenzothiophene	2.515	2.331	7.3	77	-0.02
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.76#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.11#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.53#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.20#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.76#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.45#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.26#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.97#
41	A1	Phenanthrene	2.529	2.375	6.1	78	-0.02
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.44#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.56#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.72#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.90#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-34.99#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.90#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.72#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.49#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.56#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18047.D
Acq On : 8 Feb 2006 5:01 pm
Operator : AC
Sample : C1020801
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 06:53:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.75#
52	T	Retene	0.529	0.581	-9.8	94	-0.02
53	t	Anthracene	2.340	2.244	4.1	80	-0.02
54	t	Carbazole	2.166	2.138	1.3	80	-0.02
55	t	1-Methylphenanthrene	1.732	1.707	1.4	82	-0.02
56	A1	Fluoranthene	2.693	2.624	2.6	81	-0.02
57	T	Benzo(b)fluorene	1.572	1.709	-8.7	91	-0.02
58	s	Pyrene-d10	2.204	2.282	-3.5	85	-0.02
59	A1	Pyrene	2.739	2.618	4.4	79	-0.02
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.53#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.34#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.36#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.74#
64	A1	Naphthobenzothiophene	2.562	2.606	-1.7	85	-0.02
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.606	-1.7	85	-0.02
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.33#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.64#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.40#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.42#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.02#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.10#
72	i	Chrysene-d12	1.000	1.000	0.0	88	-0.02
73	t	Benz[a]anthracene	1.522	1.536	-0.9	91	-0.02
74	A1	Chrysene	1.555	1.487	4.4	86	-0.02
75	A2	Chrysene/Triphenylene	1.555	1.487	4.4	86	-0.02
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.56#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.29#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.91#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.33#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-48.98#
81	s	Benzo[b]fluoranthene-d12	0.996	1.030	-3.4	92	-0.04
82	t	Benzo[b]fluoranthene	1.563	1.635	-4.6	93	-0.02
83	A1	Benzo[k]fluoranthene	1.626	1.676	-3.1	90	-0.04
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.41#
85	t	Benzo[e]pyrene	1.513	1.530	-1.1	91	-0.02
86	t	Benzo[a]pyrene	1.497	1.604	-7.1	97	-0.04
87	t	Perylene	1.464	1.540	-5.2	95	-0.04
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.565	-18.7	116	-0.04
89	t	Dibenz[a,h]anthracene	1.343	1.649	-22.8	110	-0.05
90	t	Benzo[g,h,i]perylene	1.518	1.712	-12.8	101	-0.04
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.382	13.0	79	-0.04
92	A2	Hopane (T19)	0.439	0.382	13.0	79	-0.04
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.65#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.38#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.87#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.18#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.93#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.02#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.31#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18047.D
Acq On : 8 Feb 2006 5:01 pm
Operator : AC
Sample : C1020801
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 06:53:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.48#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.99#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.19#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.30#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.40#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.65#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.85#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.03#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.84#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.70#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.79#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.93#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.48#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.86#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.75#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.83#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.08#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.39#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.78#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.51#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.12#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.12#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.03#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.26#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.53#
125	SA1	5B(H)Cholane - Surr	0.196	0.190	3.1	89	-0.02
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.15#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.57#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.26#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.13#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.65#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.92#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.19#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.34#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.06#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.41#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.30#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.21#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.30#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.52#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.59#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.64#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.69#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18047.D
Acq On : 8 Feb 2006 5:01 pm
Operator : AC
Sample : C1020801
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 06:53:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

CMS 2/9/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.51	164	57912	500.00	ng/mL	-0.01
72) Chrysene-d12	42.95	240	96106	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.18	152	58725	473.01	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.30%#			
58) Pyrene-d10	38.04	212	132141	517.67	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 51.77%			
81) Benzo[b]fluoranthene-d12	46.85	264	98946	517.01	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 51.70%			
125) 5B(H)Cholane - Surr	43.60	217	18299	484.57	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.46%#			

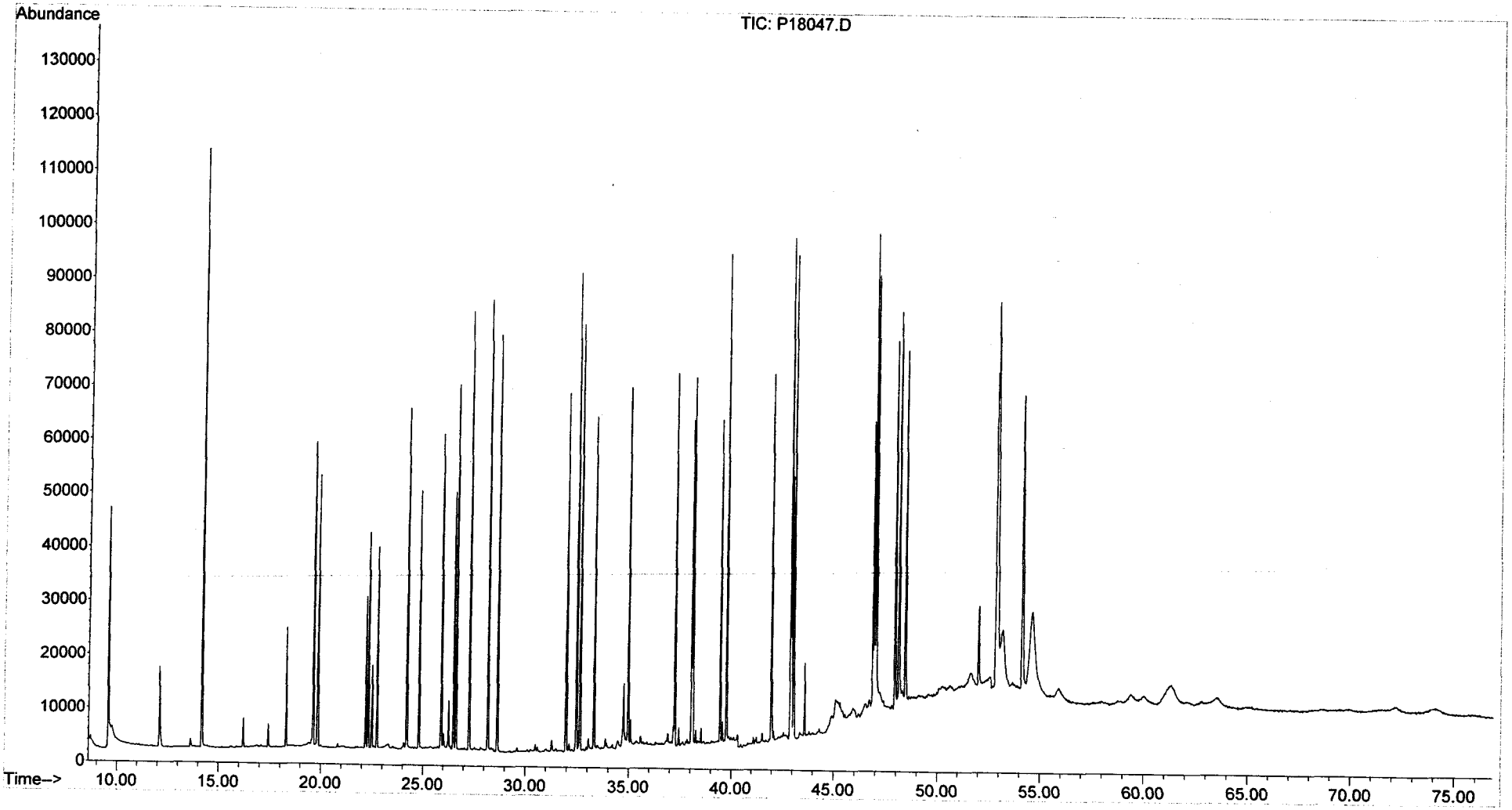
Target Compounds						Qvalue
3) trans-Decalin	16.21	138	11645	232.77	ng/mL	100
4) cis-Decalin	17.42	138	8961	238.05	ng/mL	100
9) Naphthalene	19.62	128	134491	454.75	ng/mL#	100
15) 2-Methylnaphthalene	22.31	142	87581	467.77	ng/mL#	100
16) 1-Methylnaphthalene	22.73	142	82322	467.03	ng/mL#	100
17) Benzothiophene	19.83	134	115899	439.34	ng/mL	100
22) Biphenyl	24.19	154	107484	461.75	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.80	156	75357	484.98	ng/mL#	100
24) Dibenzofuran	27.26	168	121086	463.06	ng/mL	97
25) Acenaphthylene	25.89	152	133985	472.49	ng/mL#	100
26) Acenaphthene	26.63	153	82148	466.36	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.18	170	67006	480.38	ng/mL	98
28) Fluorene	28.64	166	93332	472.44	ng/mL	98
32) Dibenzothiophene	31.95	184	134976	463.31	ng/mL	100
41) Phenanthrene	32.45	178	137543	469.53	ng/mL	99
52) Retene	39.45	234	33653	549.45	ng/mL	96
53) Anthracene	32.64	178	129979	479.57	ng/mL	99
54) Carbazole	33.30	167	123841	493.70	ng/mL	99
55) 1-Methylphenanthrene	34.96	192	98884	492.99	ng/mL	98
56) Fluoranthene	37.22	202	151946m	487.16	ng/mL	
57) Benzo(b)fluorene	39.74	216	98944	543.57	ng/mL	99
59) Pyrene	38.11	202	151613	477.94	ng/mL	98
64) Naphthobenzothiophene	41.96	234	150926	508.56	ng/ml	99
65) Naphthobenzothiophene-2,1-	41.96	234	150926	508.56	ng/mL	99
73) Benz[a]anthracene	42.89	228	147642m	504.66	ng/mL	
74) Chrysene	43.05	228	142908	478.06	ng/mL	99
75) Chrysene/Triphenylene	43.05	228	142908	478.06	ng/mL	99
82) Benzo[b]fluoranthene	46.94	252	157111	522.91	ng/mL	100
83) Benzo[k]fluoranthene	47.02	252	161073	515.31	ng/mL	99
85) Benzo[e]pyrene	47.93	252	147053	505.52	ng/mL	100
86) Benzo[a]pyrene	48.11	252	154127	535.50	ng/mL	100
87) Perylene	48.42	252	147963	525.92	ng/mL	98
88) Indeno[1,2,3-cd]pyrene	52.85	276	150400m	593.80	ng/mL	
89) Dibenz[a,h]anthracene	52.91	278	158455	613.75	ng/mL	98
90) Benzo[g,h,i]perylene	54.13	276	164581	563.90	ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.01	191	36746	435.45	ng/mL	96
92) Hopane (T19)	52.01	191	36746	435.45	ng/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18047.D
Acq On : 8 Feb 2006 5:01 pm
Operator : AC
Sample : C1020801
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 06:53:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18069.D
Acq On : 9 Feb 2006 9:53 am
Operator : AC
Sample : C1020802
Misc : PAH STD
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 09 12:12:50 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MS 2/9/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	56	-0.02
2	t	Decalin	0.391	0.000#	100.0#	0#	-16.23#
3	A1	trans-Decalin	0.432	0.391	9.5	52	-0.02
4	t	cis-Decalin	0.325	0.296	8.9	53	-0.02
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.17#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.48#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.96#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.34#
9	A1	Naphthalene	2.553	2.266	11.2	50	-0.02
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.35#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.20#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.53#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.29#
14	s	2-Methylnaphthalene-d10	1.072	1.014	5.4	54	-0.01
15	t	2-Methylnaphthalene	1.617	1.502	7.1	53	-0.01
16	t	1-Methylnaphthalene	1.522	1.418	6.8	53	-0.02
17	A1	Benzothiophene	2.278	1.986	12.8	49	-0.02
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.90#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.37#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.35#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.45#
22	t	Biphenyl	2.010	1.880	6.5	53	-0.01
23	t	2,6-Dimethylnaphthalene	1.342	1.281	4.5	55	-0.02
24	t	Dibenzofuran	2.258	2.137	5.4	54	-0.02
25	t	Acenaphthylene	2.448	2.308	5.7	54	-0.02
26	t	Acenaphthene	1.521	1.430	6.0	54	-0.02
27	t	2,3,5-Trimethylnaphthalene	1.204	1.157	3.9	56	-0.02
28	A1	Fluorene	1.706	1.599	6.3	54	-0.02
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.04#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.23#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.06#
32	A1	Dibenzothiophene	2.515	2.346	6.7	53	-0.02
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.76#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.11#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.53#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.20#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.76#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.45#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.26#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.97#
41	A1	Phenanthrene	2.529	2.386	5.7	54	-0.02
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.44#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.56#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.72#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.90#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-34.99#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.90#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.72#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.49#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.56#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18069.D
Acq On : 9 Feb 2006 9:53 am
Operator : AC
Sample : C1020802
Misc : PAH STD
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 09 12:12:50 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.75#
52	T	Retene	0.529	0.564	-6.6	63	-0.02
53	t	Anthracene	2.340	2.252	3.8	55	-0.04
54	t	Carbazole	2.166	2.048	5.4	53	-0.02
55	t	1-Methylphenanthrene	1.732	1.712	1.2	57	-0.04
56	A1	Fluoranthene	2.693	2.597	3.6	55	-0.02
57	T	Benzo(b)fluorene	1.572	1.657	-5.4	61	-0.02
58	s	Pyrene-d10	2.204	2.309	-4.8	59	-0.02
59	A1	Pyrene	2.739	2.709	1.1	56	-0.04
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.53#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.34#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.36#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.74#
64	A1	Naphthobenzothiophene	2.562	2.576	-0.5	58	-0.04
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.577	-0.6	58	-0.04
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.33#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.64#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.40#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.42#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.02#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.10#
72	i	Chrysene-d12	1.000	1.000	0.0	61	-0.04
73	t	Benz[a]anthracene	1.522	1.487	2.3	61	-0.04
74	A1	Chrysene	1.555	1.504	3.3	60	-0.04
75	A2	Chrysene/Triphenylene	1.555	1.504	3.3	60	-0.04
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.56#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.29#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.91#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.33#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-48.98#
81	s	Benzo[b]fluoranthene-d12	0.996	1.017	-2.1	63	-0.04
82	t	Benzo[b]fluoranthene	1.563	1.633	-4.5	65	-0.04
83	A1	Benzo[k]fluoranthene	1.626	1.575	3.1	58	-0.04
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.41#
85	t	Benzo[e]pyrene	1.513	1.504	0.6	62	-0.04
86	t	Benzo[a]pyrene	1.497	1.500	-0.2	63	-0.04
87	t	Perylene	1.464	1.480	-1.1	63	-0.04
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.438	-9.1	74	-0.05
89	t	Dibenz[a,h]anthracene	1.343	1.509	-12.4	69	-0.06
90	t	Benzo[g,h,i]perylene	1.518	1.600	-5.4	66	-0.05
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.340	22.6	49	-0.05
92	A2	Hopane (T19)	0.439	0.340	22.6	49	-0.05
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.65#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.38#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.87#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.18#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.93#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.02#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.31#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18069.D
Acq On : 9 Feb 2006 9:53 am
Operator : AC
Sample : C1020802
Misc : PAH STD
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 09 12:12:50 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.48#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.99#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.19#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.30#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.40#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.65#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.85#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.03#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.84#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.70#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.79#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.93#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.48#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.86#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.75#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.83#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.08#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.39#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.78#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.51#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.12#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.12#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.03#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.26#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.53#
125	SA1	5B(H)Cholane - Surr	0.196	0.180	8.2	58	-0.04
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.15#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.57#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.26#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.13#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.65#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.92#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.19#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.34#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.06#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.41#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.30#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.21#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.30#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.52#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.59#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.64#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.69#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18069.D
Acq On : 9 Feb 2006 9:53 am
Operator : AC
Sample : C1020802
Misc : PAH STD
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 09 12:12:50 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MS 2/9/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.49	164	40013m	500.00	ng/mL	-0.02
72) Chrysene-d12	42.94	240	66569	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.18	152	40591	473.20	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.32%#			
58) Pyrene-d10	38.04	212	92372	523.75	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 52.38%			
81) Benzo[b]fluoranthene-d12	46.85	264	67712	510.79	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 51.08%			
125) 5B(H)Cholane - Surr	43.58	217	11961	457.28	ng/ml	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 45.73%#			
Target Compounds						Qvalue
3) trans-Decalin	16.20	138	7817	226.15	ng/mL	100
4) cis-Decalin	17.42	138	5931	228.04	ng/mL	100
9) Naphthalene	19.61	128	90654	443.64	ng/mL#	100
15) 2-Methylnaphthalene	22.31	142	60100	464.59	ng/mL#	100
16) 1-Methylnaphthalene	22.73	142	56729	465.80	ng/mL#	100
17) Benzothiophene	19.83	134	79457	435.93	ng/mL	100
22) Biphenyl	24.19	154	75242	467.84	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.80	156	51264	477.50	ng/mL#	100
24) Dibenzofuran	27.26	168	85527	473.38	ng/mL	97
25) Acenaphthylene	25.89	152	92332	471.25	ng/mL#	100
26) Acenaphthene	26.62	153	57221	470.16	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.18	170	46308	480.50	ng/mL	97
28) Fluorene	28.64	166	63998m	468.87	ng/mL	
32) Dibenzothiophene	31.95	184	93864	466.31	ng/mL	100
41) Phenanthrene	32.45	178	95473	471.71	ng/mL	99
52) Retene	39.45	234	22555	532.99	ng/mL	95
53) Anthracene	32.62	178	90115	481.22	ng/mL	99
54) Carbazole	33.30	167	81959	472.89	ng/mL	99
55) 1-Methylphenanthrene	34.95	192	68495	494.24	ng/mL	98
56) Fluoranthene	37.22	202	103910m	482.18	ng/mL	
57) Benzo(b)fluorene	39.74	216	66295	527.12	ng/mL	99
59) Pyrene	38.10	202	108409	494.62	ng/mL	97
64) Naphthobenzothiophene	41.95	234	103071	502.67	ng/ml	98
65) Naphthobenzothiophene-2,1-	41.95	234	103097	502.80	ng/mL	98
73) Benz[a]anthracene	42.88	228	99009m	488.59	ng/mL	
74) Chrysene	43.04	228	100103	483.45	ng/mL	99
75) Chrysene/Triphenylene	43.04	228	100103	483.45	ng/mL	99
82) Benzo[b]fluoranthene	46.93	252	108733	522.47	ng/mL	99
83) Benzo[k]fluoranthene	47.02	252	104841	484.24	ng/mL	99
85) Benzo[e]pyrene	47.92	252	100098	496.79	ng/mL	99
86) Benzo[a]pyrene	48.11	252	99833	500.77	ng/mL	99
87) Perylene	48.42	252	98520	505.56	ng/mL	99
88) Indeno[1,2,3-cd]pyrene	52.84	276	95704m	545.51	ng/mL	
89) Dibenz[a,h]anthracene	52.90	278	100436	561.64	ng/mL	98
90) Benzo[g,h,i]perylene	54.11	276	106491	526.76	ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.00	191	22609	386.80	ng/mL	98
92) Hopane (T19)	52.00	191	22609	386.80	ng/mL	98

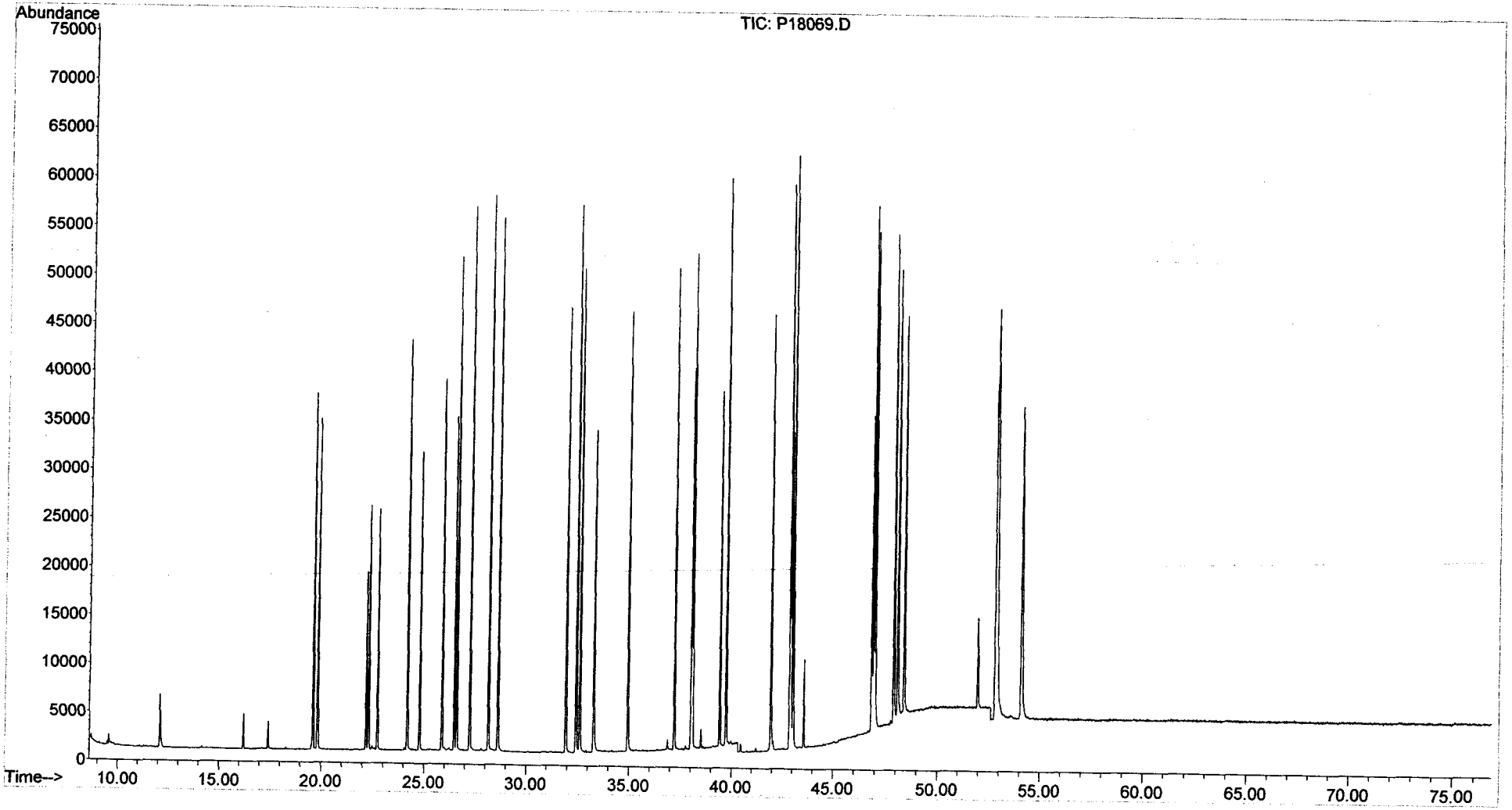
(#) = qualifier out of range (m) = manual integration (+) = signals summed

PAH10104.M Thu Feb 09 12:13:18 2006

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18069.D
Acq On : 9 Feb 2006 9:53 am
Operator : AC
Sample : C1020802
Misc : PAH STD
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 09 12:12:50 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18109.D
Acq On : 10 Feb 2006 5:19 pm
Operator : AC
Sample : C1020804
Misc : STD
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 13 06:26:48 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

AW 2/13/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	49	-0.02
2	t	Decalin	0.391	0.000#	100.0#	0#	-16.23#
3	A1	trans-Decalin	0.432	0.408	5.6	48	-0.02
4	t	cis-Decalin	0.325	0.308	5.2	48	-0.02
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.17#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.48#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.96#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.34#
9	A1	Naphthalene	2.553	2.392	6.3	46	-0.02
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.35#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.20#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.53#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.29#
14	s	2-Methylnaphthalene-d10	1.072	1.044	2.6	48	-0.02
15	t	2-Methylnaphthalene	1.617	1.567	3.1	48	-0.02
16	t	1-Methylnaphthalene	1.522	1.475	3.1	48	-0.04
17	A1	Benzothiophene	2.278	2.116	7.1	46	-0.04
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.90#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.37#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.35#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.45#
22	t	Biphenyl	2.010	1.939	3.5	48	-0.02
23	t	2,6-Dimethylnaphthalene	1.342	1.321	1.6	49	-0.04
24	t	Dibenzofuran	2.258	2.209	2.2	49	-0.02
25	t	Acenaphthylene	2.448	2.358	3.7	48	-0.04
26	t	Acenaphthene	1.521	1.484	2.4	49	-0.02
27	t	2,3,5-Trimethylnaphthalene	1.204	1.176	2.3	49	-0.02
28	A1	Fluorene	1.706	1.618	5.2	48	-0.02
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.04#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.23#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.06#
32	A1	Dibenzothiophene	2.515	2.359	6.2	47	-0.02
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.76#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.11#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.53#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.20#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.76#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.45#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.26#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.97#
41	A1	Phenanthrene	2.529	2.364	6.5	47	-0.04
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.44#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.56#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.72#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.90#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-34.99#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.90#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.72#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.49#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.56#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18109.D
Acq On : 10 Feb 2006 5:19 pm
Operator : AC
Sample : C1020804
Misc : STD
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 13 06:26:48 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.75#
52	T	Retene	0.529	0.566	-7.0	55	-0.04
53	t	Anthracene	2.340	2.195	6.2	47	-0.04
54	t	Carbazole	2.166	2.026	6.5	46	-0.04
55	t	1-Methylphenanthrene	1.732	1.660	4.2	48	-0.04
56	A1	Fluoranthene	2.693	2.575	4.4	48	-0.02
57	T	Benzo(b)fluorene	1.572	1.565	0.4	50	-0.04
58	s	Pyrene-d10	2.204	2.323	-5.4	52	-0.04
59	A1	Pyrene	2.739	2.715	0.9	49	-0.04
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.53#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.34#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.36#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.74#
64	A1	Naphthobenzothiophene	2.562	2.558	0.2	50	-0.04
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.558	0.2	50	-0.04
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.33#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.64#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.40#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.42#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.02#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.10#
72	i	Chrysene-d12	1.000	1.000	0.0	54	-0.04
73	t	Benz[a]anthracene	1.522	1.434	5.8	52	-0.04
74	A1	Chrysene	1.555	1.463	5.9	52	-0.04
75	A2	Chrysene/Triphenylene	1.555	1.463	5.9	52	-0.04
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.56#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.29#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.91#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.33#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-48.98#
81	s	Benzo[b]fluoranthene-d12	0.996	0.996	0.0	55	-0.05
82	t	Benzo[b]fluoranthene	1.563	1.526	2.4	53	-0.04
83	A1	Benzo[k]fluoranthene	1.626	1.608	1.1	53	-0.05
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.41#
85	t	Benzo[e]pyrene	1.513	1.443	4.6	53	-0.05
86	t	Benzo[a]pyrene	1.497	1.440	3.8	53	-0.04
87	t	Perylene	1.464	1.410	3.7	54	-0.05
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.197	9.2	54	-0.06
89	t	Dibenz[a,h]anthracene	1.343	1.374	-2.3	56	-0.06
90	t	Benzo[g,h,i]perylene	1.518	1.450	4.5	53	-0.06
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.330	24.8	42	-0.06
92	A2	Hopane (T19)	0.439	0.330	24.8	42	-0.06
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.65#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.38#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.87#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.18#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.93#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.02#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.31#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18109.D
Acq On : 10 Feb 2006 5:19 pm
Operator : AC
Sample : C1020804
Misc : STD
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 13 06:26:48 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.48#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.99#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.19#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.30#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.40#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.65#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.85#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.03#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.84#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.70#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.79#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.93#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.48#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.86#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.75#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.83#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.08#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.39#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.78#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.51#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.12#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.12#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.03#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.26#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.53#
125	SA1	5B(H)Cholane - Surr	0.196	0.175	10.7	50	-0.05
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.15#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.57#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.26#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.13#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.65#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.92#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.19#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.34#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.06#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.41#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.30#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.21#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.30#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.52#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.59#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.64#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.69#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18109.D
Acq On : 10 Feb 2006 5:19 pm
Operator : AC
Sample : C1020804
Misc : STD
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 13 06:26:48 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MS 2/13/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.49	164	34818m	500.00	ng/mL	-0.02
72) Chrysene-d12	42.94	240	59032	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.17	152	36343	486.89	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.69%#			
58) Pyrene-d10	38.02	212	80895	527.11	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 52.71%			
81) Benzo[b]fluoranthene-d12	46.84	264	58813	500.30	ng/mL	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 50.03%			
125) 5B(H)Cholane - Surr	43.57	217	10310	444.48	ng/ml	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 44.45%#			
Target Compounds						Qvalue
3) trans-Decalin	16.20	138	7109	236.35	ng/mL	100
4) cis-Decalin	17.42	138	5362	236.92	ng/mL	100
9) Naphthalene	19.61	128	83286	468.40	ng/mL#	100
15) 2-Methylnaphthalene	22.29	142	54562	484.71	ng/mL#	100
16) 1-Methylnaphthalene	22.72	142	51357	484.61	ng/mL#	100
17) Benzothiophene	19.82	134	73692	464.62	ng/mL	100
22) Biphenyl	24.18	154	67501	482.33	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.78	156	45993	492.33	ng/mL#	100
24) Dibenzofuran	27.26	168	76900	489.14	ng/mL	97
25) Acenaphthylene	25.87	152	82118	481.65	ng/mL#	100
26) Acenaphthene	26.62	153	51673	487.92	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.18	170	40936	488.13	ng/mL	99
28) Fluorene	28.64	166	56345	474.40	ng/mL	99
32) Dibenzothiophene	31.95	184	82146	468.99	ng/mL	99
41) Phenanthrene	32.44	178	82320	467.41	ng/mL	99
52) Retene	39.43	234	19703	535.06	ng/mL	94
53) Anthracene	32.62	178	76441	469.11	ng/mL	99
54) Carbazole	33.29	167	70541	467.74	ng/mL	99
55) 1-Methylphenanthrene	34.95	192	57802	479.31	ng/mL	99
56) Fluoranthene	37.22	202	89657m	478.11	ng/mL	
57) Benzo(b)fluorene	39.73	216	54474	497.76	ng/mL	99
59) Pyrene	38.10	202	94545	495.72	ng/mL	99
64) Naphthobenzothiophene	41.95	234	89068	499.19	ng/ml	98
65) Naphthobenzothiophene-2,1-	41.95	234	89068	499.19	ng/mL	98
73) Benz[a]anthracene	42.88	228	84628m	470.94	ng/mL	
74) Chrysene	43.04	228	86346	470.25	ng/mL	98
75) Chrysene/Triphenylene	43.04	228	86346	470.25	ng/mL	98
82) Benzo[b]fluoranthene	46.93	252	90065	488.02	ng/mL	99
83) Benzo[k]fluoranthene	47.00	252	94937	494.48	ng/mL	99
85) Benzo[e]pyrene	47.91	252	85212	476.90	ng/mL	99
86) Benzo[a]pyrene	48.11	252	85025	480.94	ng/mL	100
87) Perylene	48.40	252	83238	481.68	ng/mL	99
88) Indeno[1,2,3-cd]pyrene	52.83	276	70647m	454.10	ng/mL	
89) Dibenz[a,h]anthracene	52.90	278	81137	511.65	ng/mL	97
90) Benzo[g,h,i]perylene	54.10	276	85588	477.41	ng/mL	100
91) 17a(H),21B(H)-hopane - C30	51.98	191	19474	375.71	ng/mL#	91
92) Hopane (T19)	51.98	191	19474	375.71	ng/mL#	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18109.D
Acq On : 10 Feb 2006 5:19 pm
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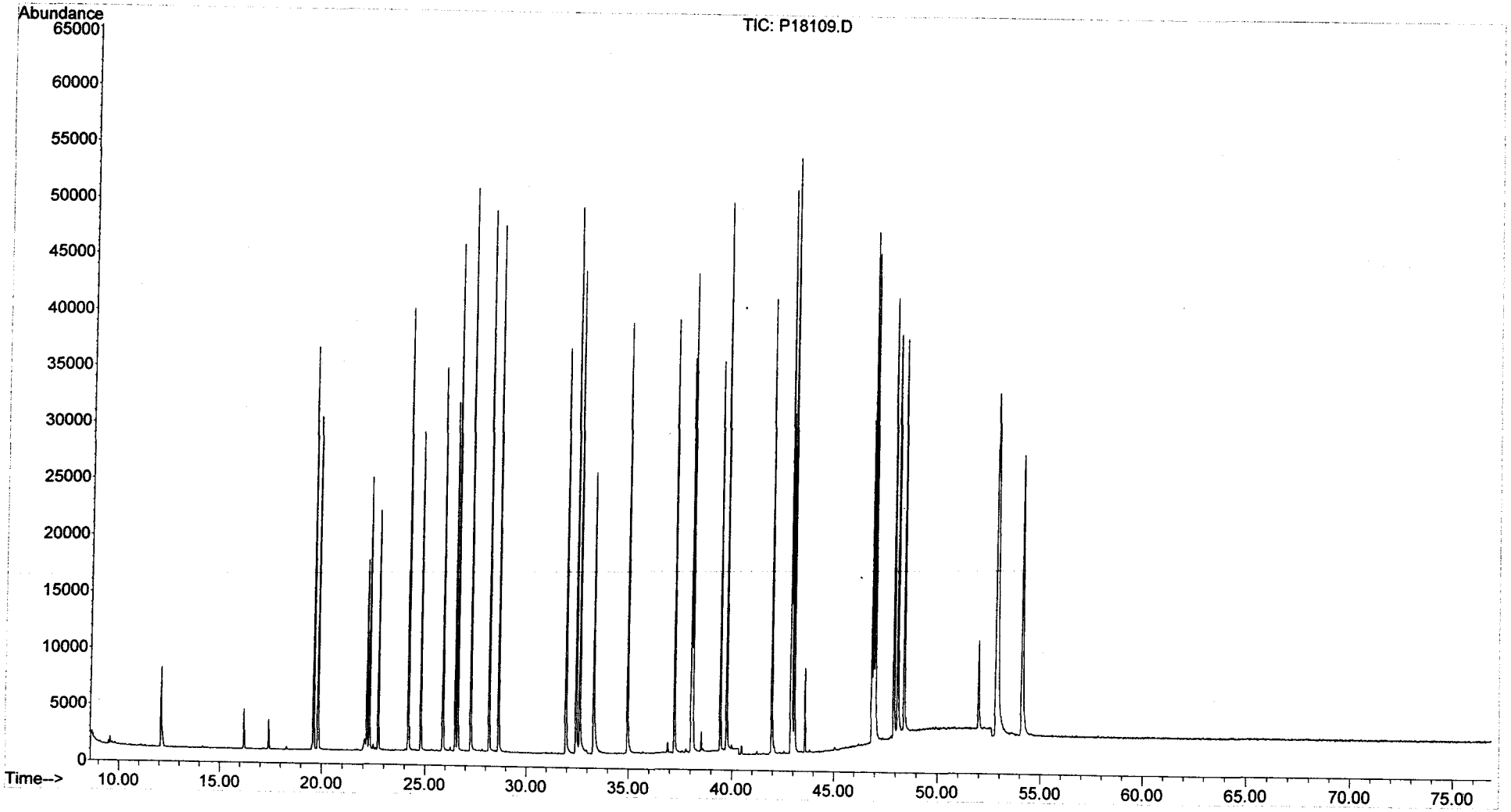
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 13 06:26:48 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18135.D
Acq On : 11 Feb 2006 1:38 pm
Operator : AC
Sample : C1020805
Misc : STD
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Feb 13 06:32:26 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

MS 2/13/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	49	-0.02
2	t	Decalin	0.391	0.000#	100.0#	0#	-16.23#
3	A1	trans-Decalin	0.432	0.402	6.9	47	-0.02
4	t	cis-Decalin	0.325	0.309	4.9	48	-0.02
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.17#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.48#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.96#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.34#
9	A1	Naphthalene	2.553	2.268	11.2	44	-0.02
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.35#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.20#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.53#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.29#
14	s	2-Methylnaphthalene-d10	1.072	1.024	4.5	48	-0.02
15	t	2-Methylnaphthalene	1.617	1.510	6.6	47	-0.02
16	t	1-Methylnaphthalene	1.522	1.404	7.8	46	-0.02
17	A1	Benzothiophene	2.278	1.986	12.8	43	-0.02
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.90#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.37#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.35#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.45#
22	t	Biphenyl	2.010	1.875	6.7	47	-0.02
23	t	2,6-Dimethylnaphthalene	1.342	1.291	3.8	48	-0.04
24	t	Dibenzofuran	2.258	2.098	7.1	47	-0.02
25	t	Acenaphthylene	2.448	2.395	2.2	49	-0.04
26	t	Acenaphthene	1.521	1.426	6.2	47	-0.02
27	t	2,3,5-Trimethylnaphthalene	1.204	1.155	4.1	49	-0.02
28	A1	Fluorene	1.706	1.572	7.9	47	-0.02
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.04#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.23#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.06#
32	A1	Dibenzothiophene	2.515	2.228	11.4	45	-0.02
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.76#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.11#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.53#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.20#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.76#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.45#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.26#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.97#
41	A1	Phenanthrene	2.529	2.281	9.8	46	-0.04
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.44#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.56#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.72#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.90#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-34.99#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.90#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.72#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.49#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.56#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18135.D
Acq On : 11 Feb 2006 1:38 pm
Operator : AC
Sample : C1020805
Misc : STD
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Feb 13 06:32:26 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.75#
52	T	Retene	0.529	0.625	-18.1	61	-0.04
53	t	Anthracene	2.340	2.122	9.3	46	-0.04
54	t	Carbazole	2.166	2.005	7.4	46	-0.04
55	t	1-Methylphenanthrene	1.732	1.685	2.7	49	-0.04
56	A1	Fluoranthene	2.693	2.604	3.3	49	-0.02
57	T	Benzo(b)fluorene	1.572	1.710	-8.8	55	-0.04
58	s	Pyrene-d10	2.204	2.339	-6.1	53	-0.04
59	A1	Pyrene	2.739	2.646	3.4	48	-0.04
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.53#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.34#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.36#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.74#
64	A1	Naphthobenzothiophene	2.562	2.609	-1.8	52	-0.04
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.609	-1.8	52	-0.04
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.33#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.64#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.40#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.42#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.02#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.10#
72	i	Chrysene-d12	1.000	1.000	0.0	54	-0.04
73	t	Benz[a]anthracene	1.522	1.535	-0.9	56	-0.04
74	A1	Chrysene	1.555	1.475	5.1	52	-0.04
75	A2	Chrysene/Triphenylene	1.555	1.475	5.1	52	-0.04
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.56#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.29#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.91#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.33#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-48.98#
81	s	Benzo[b]fluoranthene-d12	0.996	1.039	-4.3	57	-0.05
82	t	Benzo[b]fluoranthene	1.563	1.618	-3.5	57	-0.04
83	A1	Benzo[k]fluoranthene	1.626	1.609	1.0	53	-0.05
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.41#
85	t	Benzo[e]pyrene	1.513	1.494	1.3	55	-0.05
86	t	Benzo[a]pyrene	1.497	1.559	-4.1	58	-0.05
87	t	Perylene	1.464	1.500	-2.5	57	-0.05
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.534	-16.4	70	-0.06
89	t	Dibenz[a,h]anthracene	1.343	1.537	-14.4	63	-0.07
90	t	Benzo[g,h,i]perylene	1.518	1.609	-6.0	59	-0.06
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.352	19.8	45	-0.06
92	A2	Hopane (T19)	0.439	0.352	19.8	45	-0.06
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.65#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.38#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.87#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.18#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.93#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.02#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.31#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18135.D
Acq On : 11 Feb 2006 1:38 pm
Operator : AC
Sample : C1020805
Misc : STD
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Feb 13 06:32:26 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.48#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.99#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.19#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.30#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.40#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.65#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.85#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.03#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.84#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.70#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.79#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.93#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.48#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.86#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.75#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.83#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.08#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.39#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.78#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.51#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.12#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.12#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.03#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.26#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.53#
125	SA1	5B(H)Cholane - Surr	0.196	0.185	5.6	53	-0.05
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.15#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.57#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.26#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.13#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.65#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.92#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.19#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.34#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.06#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.41#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.30#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.21#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.30#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.52#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.59#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.64#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.69#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18135.D
Acq On : 11 Feb 2006 1:38 pm
Operator : AC
Sample : C1020805
Misc : STD
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Feb 13 06:32:26 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

2/13/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.49	164	35120	500.00	ng/mL	-0.02
72) Chrysene-d12	42.94	240	59073	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.17	152	35967	477.71	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.77%#			
58) Pyrene-d10	38.02	212	82150	530.69	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 53.07%			
81) Benzo[b]fluoranthene-d12	46.84	264	61389	521.86	ng/mL	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 52.19%			
125) 5B(H)Cholane - Surr	43.57	217	10933	471.01	ng/ml	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.10%#			

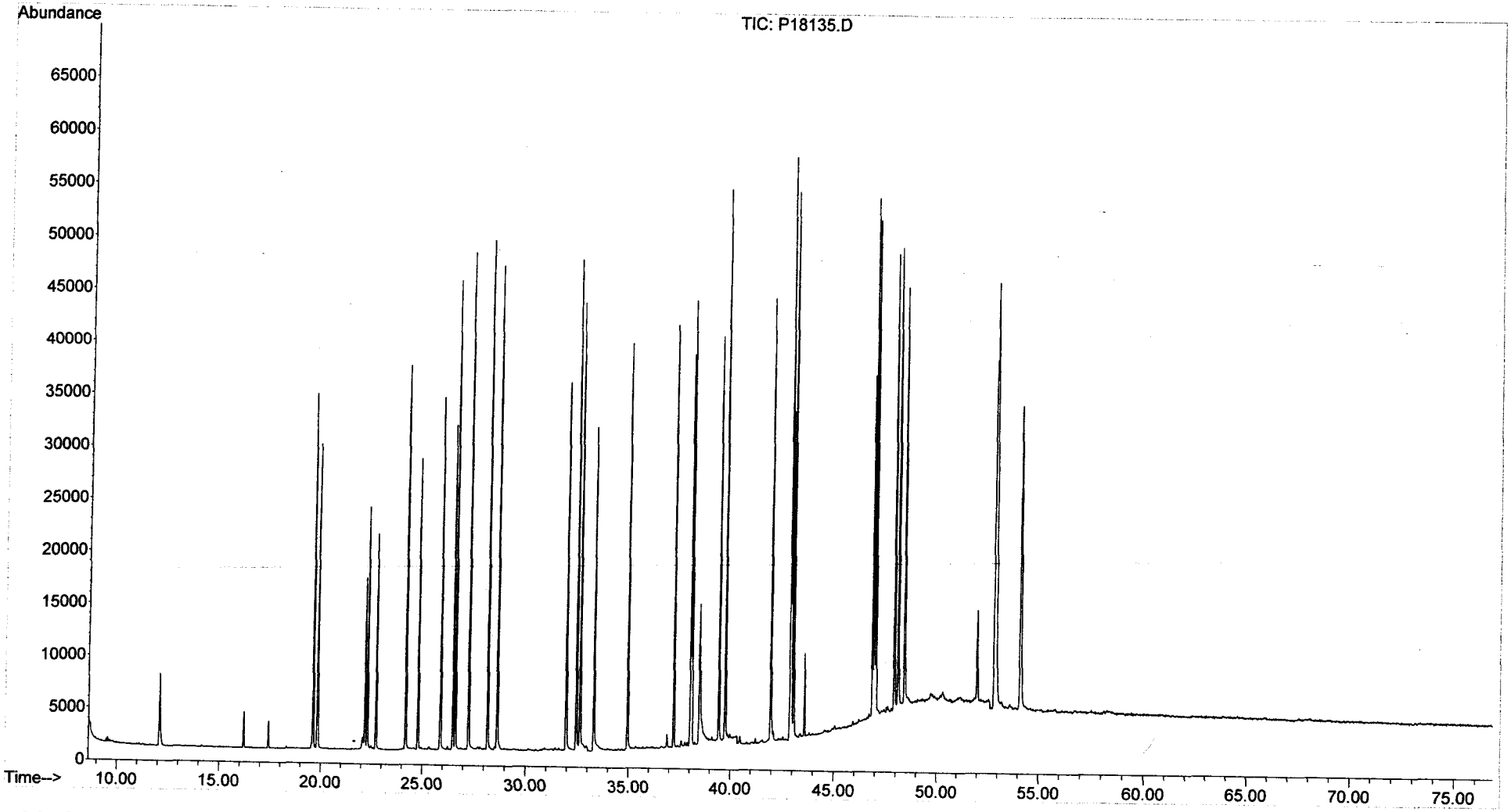
Target Compounds						Qvalue
3) trans-Decalin	16.20	138	7067	232.94	ng/mL	100
4) cis-Decalin	17.42	138	5418	237.34	ng/mL	100
9) Naphthalene	19.61	128	79658	444.14	ng/mL#	100
15) 2-Methylnaphthalene	22.29	142	53020	466.96	ng/mL#	100
16) 1-Methylnaphthalene	22.73	142	49300	461.20	ng/mL#	100
17) Benzothiophene	19.83	134	69764	436.08	ng/mL	100
22) Biphenyl	24.18	154	65833	466.36	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.78	156	45341	481.17	ng/mL#	100
24) Dibenzofuran	27.26	168	73677	464.61	ng/mL	96
25) Acenaphthylene	25.87	152	84100	489.04	ng/mL#	100
26) Acenaphthene	26.62	153	50068	468.70	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.18	170	40580	479.73	ng/mL	97
28) Fluorene	28.64	166	55199m	460.75	ng/mL	
32) Dibenzothiophene	31.95	184	78262	442.97	ng/mL	100
41) Phenanthrene	32.44	178	80115	450.98	ng/mL	99
52) Retene	39.44	234	21934	590.53	ng/mL	93
53) Anthracene	32.62	178	74538	453.50	ng/mL	99
54) Carbazole	33.29	167	70421	462.93	ng/mL	98
55) 1-Methylphenanthrene	34.95	192	59160	486.36	ng/mL	98
56) Fluoranthene	37.22	202	91438m	483.42	ng/mL	
57) Benzo(b)fluorene	39.73	216	60063	544.11	ng/mL	97
59) Pyrene	38.10	202	92944	483.14	ng/mL	98
64) Naphthobenzothiophene	41.95	234	91627	509.12	ng/ml	100
65) Naphthobenzothiophene-2,1-	41.95	234	91627	509.12	ng/mL	100
73) Benz[a]anthracene	42.88	228	90675m	504.24	ng/mL	
74) Chrysene	43.04	228	87125	474.16	ng/mL	98
75) Chrysene/Triphenylene	43.04	228	87125	474.16	ng/mL	98
82) Benzo[b]fluoranthene	46.93	252	95568	517.48	ng/mL	99
83) Benzo[k]fluoranthene	47.00	252	95031	494.62	ng/mL	99
85) Benzo[e]pyrene	47.91	252	88247	493.55	ng/mL	99
86) Benzo[a]pyrene	48.09	252	92083	520.51	ng/mL	100
87) Perylene	48.40	252	88581	512.24	ng/mL	99
88) Indeno[1,2,3-cd]pyrene	52.83	276	90641m	582.21	ng/mL	
89) Dibenz[a,h]anthracene	52.89	278	90776	572.03	ng/mL	98
90) Benzo[g,h,i]perylene	54.10	276	95061	529.89	ng/mL	99
91) 17a(H),21B(H)-hopane - C30	51.98	191	20778	400.59	ng/mL	100
92) Hopane (T19)	51.98	191	20778	400.59	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08\
Data File : P18135.D
Acq On : 11 Feb 2006 1:38 pm
Operator : AC
Sample : C1020805
Misc : STD
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Feb 13 06:32:26 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB13\
Data File : P18179.D
Acq On : 13 Feb 2006 3:24 pm
Operator : AC
Sample : C1021301
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 14 06:44:39 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

2/14/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	44	-0.02
2	t	Decalin	0.391	0.000#	100.0#	0#	-16.23#
3	A1	trans-Decalin	0.432	0.393	9.0	41	-0.02
4	t	cis-Decalin	0.325	0.304	6.5	42	-0.04
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.17#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.48#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.96#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.34#
9	A1	Naphthalene	2.553	2.333	8.6	40	-0.02
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.35#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.20#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.53#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.29#
14	s	2-Methylnaphthalene-d10	1.072	1.037	3.3	43	-0.02
15	t	2-Methylnaphthalene	1.617	1.522	5.9	42	-0.02
16	t	1-Methylnaphthalene	1.522	1.435	5.7	42	-0.04
17	A1	Benzothiophene	2.278	2.060	9.6	40	-0.02
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.90#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.37#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.35#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.45#
22	t	Biphenyl	2.010	1.882	6.4	42	-0.02
23	t	2,6-Dimethylnaphthalene	1.342	1.298	3.3	43	-0.04
24	t	Dibenzofuran	2.258	2.111	6.5	42	-0.02
25	t	Acenaphthylene	2.448	2.331	4.8	42	-0.04
26	t	Acenaphthene	1.521	1.444	5.1	42	-0.02
27	t	2,3,5-Trimethylnaphthalene	1.204	1.152	4.3	43	-0.02
28	A1	Fluorene	1.706	1.574	7.7	42	-0.02
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.04#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.23#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.06#
32	A1	Dibenzothiophene	2.515	2.270	9.7	40	-0.02
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.76#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.11#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.53#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.20#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.76#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.45#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.26#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.97#
41	A1	Phenanthrene	2.529	2.271	10.2	40	-0.02
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.44#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.56#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.72#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.90#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-34.99#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.90#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.72#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.49#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.56#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB13\
Data File : P18179.D
Acq On : 13 Feb 2006 3:24 pm
Operator : AC
Sample : C1021301
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 14 06:44:39 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.75#
52	T	Retene	0.529	0.588	-11.2	51	-0.04
53	t	Anthracene	2.340	2.090	10.7	40	-0.04
54	t	Carbazole	2.166	1.797	17.0	36	-0.04
55	t	1-Methylphenanthrene	1.732	1.652	4.6	43	-0.04
56	A1	Fluoranthene	2.693	2.552	5.2	42	-0.02
57	T	Benzo(b)fluorene	1.572	1.606	-2.2	46	-0.04
58	s	Pyrene-d10	2.204	2.297	-4.2	46	-0.04
59	A1	Pyrene	2.739	2.680	2.2	44	-0.04
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.53#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.34#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.36#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.74#
64	A1	Naphthobenzothiophene	2.562	2.569	-0.3	45	-0.04
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.570	-0.3	45	-0.04
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.33#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.64#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.40#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.42#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.02#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.10#
72	i	Chrysene-d12	1.000	1.000	0.0	46	-0.04
73	t	Benz[a]anthracene	1.522	1.517	0.3	47	-0.04
74	A1	Chrysene	1.555	1.496	3.8	45	-0.04
75	A2	Chrysene/Triphenylene	1.555	1.494	3.9	45	-0.04
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.56#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.29#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.91#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.33#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-48.98#
81	s	Benzo[b]fluoranthene-d12	0.996	0.980	1.6	46	-0.05
82	t	Benzo[b]fluoranthene	1.563	1.479	5.4	44	-0.04
83	A1	Benzo[k]fluoranthene	1.626	1.573	3.3	44	-0.04
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.41#
85	t	Benzo[e]pyrene	1.513	1.406	7.1	44	-0.04
86	t	Benzo[a]pyrene	1.497	1.415	5.5	45	-0.04
87	t	Perylene	1.464	1.396	4.6	45	-0.04
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.220	7.4	47	-0.05
89	t	Dibenz[a,h]anthracene	1.343	1.349	-0.4	47	-0.06
90	t	Benzo[g,h,i]perylene	1.518	1.392	8.3	43	-0.05
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.341	22.3	37	-0.07
92	A2	Hopane (T19)	0.439	0.341	22.3	37	-0.07
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.65#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.38#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.87#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.18#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.93#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.02#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.31#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB13\
Data File : P18179.D
Acq On : 13 Feb 2006 3:24 pm
Operator : AC
Sample : C1021301
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 14 06:44:39 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.48#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.99#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.19#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.30#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.40#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.65#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.85#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.03#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.84#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.70#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.79#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.93#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.48#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.86#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.75#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.83#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.08#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.39#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.78#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.51#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.12#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.12#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.03#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.26#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.53#
125	SA1	5B(H)Cholane - Surr	0.196	0.179	8.7	44	-0.05
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.15#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.57#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.26#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.13#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.65#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.92#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.19#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.34#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.06#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.41#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.30#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.21#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.30#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.52#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.59#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.64#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.69#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB13\
Data File : P18179.D
Acq On : 13 Feb 2006 3:24 pm
Operator : AC
Sample : C1021301
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 14 06:44:39 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

CMS 2/14/06

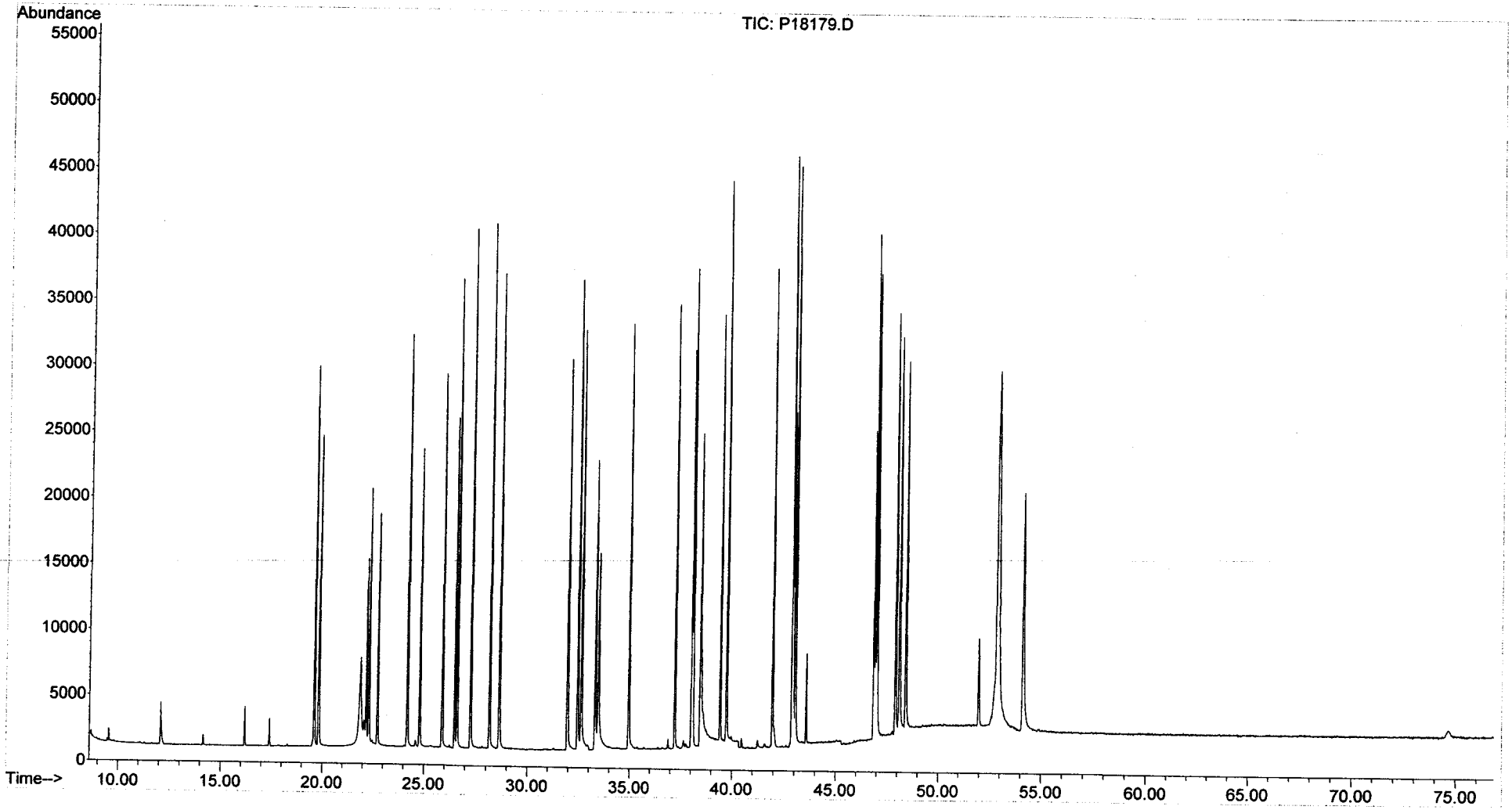
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.49	164	31259	500.00	ng/mL	-0.02
72) Chrysene-d12	42.94	240	50447	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.17	152	32424	483.85	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.38%#			
58) Pyrene-d10	38.02	212	71790	521.05	ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 52.10%			
81) Benzo[b]fluoranthene-d12	46.84	264	49455	492.29	ng/mL	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 49.23%#			
125) 5B(H)Cholane - Surr	43.57	217	9052	456.66	ng/ml	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 45.67%#			
Target Compounds						Qvalue
3) trans-Decalin	16.20	138	6143	227.49	ng/mL	100
4) cis-Decalin	17.40	138	4747	233.63	ng/mL	100
9) Naphthalene	19.61	128	72919	456.78	ng/mL#	100
15) 2-Methylnaphthalene	22.29	142	47583	470.84	ng/mL#	100
16) 1-Methylnaphthalene	22.72	142	44847	471.37	ng/mL#	100
17) Benzothiophene	19.83	134	64400	452.27	ng/mL	100
22) Biphenyl	24.18	154	58818	468.13	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.78	156	40568	483.70	ng/mL#	100
24) Dibenzofuran	27.26	168	65977	467.44	ng/mL	98
25) Acenaphthylene	25.87	152	72855	475.98	ng/mL#	100
26) Acenaphthene	26.62	153	45151	474.88	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.18	170	36018	478.39	ng/mL	98
28) Fluorene	28.64	166	49187m	461.28	ng/mL	
32) Dibenzothiophene	31.95	184	70943	451.14	ng/mL	99
41) Phenanthrene	32.45	178	70984	448.93	ng/mL	99
52) Retene	39.43	234	18371	555.69	ng/mL	94
53) Anthracene	32.62	178	65328m	446.55	ng/mL	
54) Carbazole	33.29	167	56175	414.89	ng/mL	100
55) 1-Methylphenanthrene	34.95	192	51636	476.94	ng/mL	99
56) Fluoranthene	37.22	202	79784m	473.91	ng/mL	
57) Benzo(b)fluorene	39.73	216	50198	510.91	ng/mL	99
59) Pyrene	38.10	202	83761	489.18	ng/mL	99
64) Naphthobenzothiophene	41.95	234	80291	501.24	ng/ml	97
65) Naphthobenzothiophene-2,1-	41.95	234	80333	501.50	ng/mL	97
73) Benz[a]anthracene	42.88	228	76523m	498.31	ng/mL	
74) Chrysene	43.04	228	75483m	481.05	ng/mL	
75) Chrysene/Triphenylene	43.04	228	75383m	480.41	ng/mL	
82) Benzo[b]fluoranthene	46.93	252	74588	472.94	ng/mL	99
83) Benzo[k]fluoranthene	47.02	252	79330	483.50	ng/mL	99
85) Benzo[e]pyrene	47.92	252	70923	464.48	ng/mL	99
86) Benzo[a]pyrene	48.11	252	71368	472.39	ng/mL	100
87) Perylene	48.42	252	70432	476.93	ng/mL	99
88) Indeno[1,2,3-cd]pyrene	52.84	276	61542m	462.89	ng/mL	
89) Dibenz[a,h]anthracene	52.90	278	68050	502.15	ng/mL#	65
90) Benzo[g,h,i]perylene	54.12	276	70209	458.28	ng/mL	99
91) 17a(H),21B(H)-hopane - C30	51.97	191	17179	387.83	ng/mL	97
92) Hopane (T19)	51.97	191	17179	387.83	ng/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB13\
Data File : P18179.D
Acq On : 13 Feb 2006 3:24 pm
Operator : AC
Sample : C1021301
Misc : PAH STD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 14 06:44:39 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB13\
Data File : P18195.D
Acq On : 14 Feb 2006 5:26 am
Operator : AC
Sample : C1021303
Misc : PAH STD
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 14 07:39:56 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

CMS 2/14/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	73	-0.02
2	t	Decalin	0.391	0.000#	100.0#	0#	-16.23#
3	A1	trans-Decalin	0.432	0.398	7.9	69	-0.02
4	t	cis-Decalin	0.325	0.304	6.5	70	-0.02
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.17#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.48#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-21.96#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.34#
9	A1	Naphthalene	2.553	2.315	9.3	66	-0.02
10	A2	C1-Naphthalenes	2.553	0.000#	100.0#	0#	-22.35#
11	A2	C2-Naphthalenes	2.553	0.000#	100.0#	0#	-25.20#
12	A2	C3-Naphthalenes	2.553	0.000#	100.0#	0#	-27.53#
13	A2	C4-Naphthalenes	2.553	0.000#	100.0#	0#	-30.29#
14	s	2-Methylnaphthalene-d10	1.072	1.032	3.7	71	-0.02
15	t	2-Methylnaphthalene	1.617	1.516	6.2	69	-0.02
16	t	1-Methylnaphthalene	1.522	1.442	5.3	70	-0.04
17	A1	Benzothiophene	2.278	2.024	11.2	65	-0.02
18	A2	C1-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-21.90#
19	A2	C2-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-25.37#
20	A2	C3-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-27.35#
21	A2	C4-Benzo(b)thiophenes	2.278	0.000#	100.0#	0#	-29.45#
22	t	Biphenyl	2.010	1.859	7.5	68	-0.02
23	t	2,6-Dimethylnaphthalene	1.342	1.289	3.9	71	-0.04
24	t	Dibenzofuran	2.258	2.097	7.1	69	-0.02
25	t	Acenaphthylene	2.448	2.339	4.5	71	-0.04
26	t	Acenaphthene	1.521	1.437	5.5	70	-0.02
27	t	2,3,5-Trimethylnaphthalene	1.204	1.150	4.5	72	-0.02
28	A1	Fluorene	1.706	1.562	8.4	69	-0.02
29	A2	C1-Fluorenes	1.706	0.000#	100.0#	0#	-31.04#
30	A2	C2-Fluorenes	1.706	0.000#	100.0#	0#	-33.23#
31	A2	C3-Fluorenes	1.706	0.000#	100.0#	0#	-35.06#
32	A1	Dibenzothiophene	2.515	2.257	10.3	67	-0.04
33	A2	4-Methyldibenzothiophene(4M	2.515	0.000#	100.0#	0#	-33.76#
34	A2	2/3-Methyldibenzothiophene(	2.515	0.000#	100.0#	0#	-34.11#
35	A2	1-Methyldibenzothiophene(1M	2.515	0.000#	100.0#	0#	-34.53#
36	A2	OTP	2.515	0.000#	100.0#	0#	-34.20#
37	A2	C1-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-33.76#
38	A2	C2-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-35.45#
39	A2	C3-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-37.26#
40	A2	C4-Dibenzothiophenes	2.515	0.000#	100.0#	0#	-38.97#
41	A1	Phenanthrene	2.529	2.324	8.1	68	-0.04
42	A2	3-Methylphenanthrene(3MP)	2.529	0.000#	100.0#	0#	-34.44#
43	A2	2/4-Methylphenanthrene(2MP)	2.529	0.000#	100.0#	0#	-34.56#
44	A2	2-Methylanthracene(2MA)	2.529	0.000#	100.0#	0#	-34.72#
45	A2	9-Methylphenanthrene(9MP)	2.529	0.000#	100.0#	0#	-34.90#
46	A2	1-Methylphenanthrene(1MP)	2.529	0.000#	100.0#	0#	-34.99#
47	A2	C1-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-34.90#
48	A2	C2-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-36.72#
49	A2	5AA IS BKGD	2.529	0.000#	100.0#	0#	-36.49#
50	A2	C3-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-38.56#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB13\
Data File : P18195.D
Acq On : 14 Feb 2006 5:26 am
Operator : AC
Sample : C1021303
Misc : PAH STD
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 14 07:39:56 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.529	0.000#	100.0#	0#	-40.75#
52	T	Retene	0.529	0.575	-8.7	83	-0.04
53	t	Anthracene	2.340	2.121	9.4	68	-0.04
54	t	Carbazole	2.166	1.918	11.4	64	-0.04
55	t	1-Methylphenanthrene	1.732	1.632	5.8	70	-0.04
56	A1	Fluoranthene	2.693	2.520	6.4	69	-0.04
57	T	Benzo(b)fluorene	1.572	1.570	0.1	75	-0.04
58	s	Pyrene-d10	2.204	2.228	-1.1	74	-0.04
59	A1	Pyrene	2.739	2.520	8.0	68	-0.05
60	A2	C1-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-39.53#
61	A2	C2-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-41.34#
62	A2	C3-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-43.36#
63	A2	C4-Fluoranthenes/Pyrenes	2.739	0.000#	100.0#	0#	-44.74#
64	A1	Naphthobenzothiophene	2.562	2.512	2.0	73	-0.04
65	A2	Naphthobenzothiophene-2,1-D	2.562	2.513	1.9	73	-0.04
66	A2	Naphthobenzothiophene-1,2-D	2.562	0.000#	100.0#	0#	-42.33#
67	A2	Naphthobenzothiophene-2,3-D	2.562	0.000#	100.0#	0#	-42.64#
68	A2	C1-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-43.40#
69	A2	C2-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-45.42#
70	A2	C3-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-47.02#
71	A2	C4-Naphthobenzothiophenes	2.562	0.000#	100.0#	0#	-48.10#
72	i	Chrysene-d12	1.000	1.000	0.0	76	-0.04
73	t	Benz[a]anthracene	1.522	1.501	1.4	76	-0.04
74	A1	Chrysene	1.555	1.472	5.3	72	-0.04
75	A2	Chrysene/Triphenylene	1.555	1.470	5.5	72	-0.04
76	A2	C1-Chrysenes	1.555	0.000#	100.0#	0#	-44.56#
77	A2	C2-Chrysenes	1.555	0.000#	100.0#	0#	-47.29#
78	A2	BBF-d12 Surr BKGD	1.555	0.000#	100.0#	0#	-46.91#
79	A2	C3-Chrysenes	1.555	0.000#	100.0#	0#	-49.33#
80	A2	C4-Chrysenes	1.555	0.000#	100.0#	0#	-48.98#
81	s	Benzo[b]fluoranthene-d12	0.996	0.979	1.7	75	-0.05
82	t	Benzo[b]fluoranthene	1.563	1.498	4.2	73	-0.04
83	A1	Benzo[k]fluoranthene	1.626	1.519	6.6	70	-0.05
84	A2	Benzo[a]fluoranthene	1.626	0.000#	100.0#	0#	-47.41#
85	t	Benzo[e]pyrene	1.513	1.413	6.6	72	-0.05
86	t	Benzo[a]pyrene	1.497	1.403	6.3	72	-0.05
87	t	Perylene	1.464	1.369	6.5	72	-0.05
88	t	Indeno[1,2,3-cd]pyrene	1.318	1.310	0.6	83	-0.05
89	t	Dibenz[a,h]anthracene	1.343	1.403	-4.5	80	-0.06
90	t	Benzo[g,h,i]perylene	1.518	1.451	4.4	74	-0.06
91	A1	17a(H),21B(H)-hopane - C30H	0.439	0.368	16.2	65	-0.07
92	A2	Hopane (T19)	0.439	0.368	16.2	65	-0.07
93	A2	C23 Tricyclic Terpane (T4)	0.439	0.000#	100.0#	0#	-40.65#
94	A2	C24 Tricyclic Terpane (T5)	0.439	0.000#	100.0#	0#	-41.38#
95	A2	C25 Tricyclic Terpane (T6)	0.439	0.000#	100.0#	0#	-42.87#
96	A2	C24 Tetracyclic Terpane (T6	0.439	0.000#	100.0#	0#	-44.18#
97	A2	C26 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-43.93#
98	A2	C26 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-44.02#
99	A2	C28 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.31#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\February06\FEB13\
Data File : P18195.D
Acq On : 14 Feb 2006 5:26 am
Operator : AC
Sample : C1021303
Misc : PAH STD
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 14 07:39:56 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-46.48#
101	A2	C29 Tricyclic Terpane-22S (	0.439	0.000#	100.0#	0#	-46.99#
102	A2	C29 Tricyclic Terpane-22R (	0.439	0.000#	100.0#	0#	-47.19#
103	A2	18a-22,29,30-Trisnorneohopa	0.439	0.000#	100.0#	0#	-48.30#
104	A2	C30 Tricyclic Terpane-22S	0.439	0.000#	100.0#	0#	-48.40#
105	A2	C30 Tricyclic Terpane-22R	0.439	0.000#	100.0#	0#	-48.65#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.439	0.000#	100.0#	0#	-48.85#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.439	0.000#	100.0#	0#	-50.03#
108	A2	17a(H),21b(H)-25-Norhopane	0.439	0.000#	100.0#	0#	-49.84#
109	A2	30-Norhopane (T15)	0.439	0.000#	100.0#	0#	-50.70#
110	A2	18a(H)-30-Norneohopane-C29T	0.439	0.000#	100.0#	0#	-50.79#
111	A2	17a(H)-Diahopane (X)	0.439	0.000#	100.0#	0#	-50.93#
112	A2	30-Normoretane (T17)	0.439	0.000#	100.0#	0#	-51.48#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.439	0.000#	100.0#	0#	-51.86#
114	A2	Moretane (T20)	0.439	0.000#	100.0#	0#	-52.75#
115	A2	30-Homohopane-22S (T21)	0.439	0.000#	100.0#	0#	-53.83#
116	A2	30-Homohopane-22R (T22)	0.439	0.000#	100.0#	0#	-54.08#
117	A2	30,31-Bishomohopane-22S (T2	0.439	0.000#	100.0#	0#	-55.39#
118	A2	30,31-Bishomohopane-22R (T2	0.439	0.000#	100.0#	0#	-55.78#
119	A2	30,31-Trishomohopane-22S (T	0.439	0.000#	100.0#	0#	-57.51#
120	A2	30,31-Trishomohopane-22R (T	0.439	0.000#	100.0#	0#	-58.12#
121	A2	Tetrakishomohopane-22S (T32	0.439	0.000#	100.0#	0#	-60.12#
122	A2	Tetrakishomohopane-22R (T33	0.439	0.000#	100.0#	0#	-61.03#
123	A2	Pentakishomohopane-22S (T34	0.439	0.000#	100.0#	0#	-63.26#
124	A2	Pentakishomohopane-22R (T35	0.439	0.000#	100.0#	0#	-64.53#
125	SA1	5B(H)Cholane - Surr	0.196	0.191	2.6	76	-0.05
126	A2	13b(H),17a(H)-20S-Diacholes	0.196	0.000#	100.0#	0#	-45.15#
127	A2	13b(H),17a(H)-20R-Diacholes	0.196	0.000#	100.0#	0#	-45.57#
128	A2	13b,17a-20S-Methyldiacholes	0.196	0.000#	100.0#	0#	-46.26#
129	A2	14a(H),17a(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.13#
130	A2	14a(H),17a(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.65#
131	A2	13b,17a-20R-Ethyldiacholest	0.196	0.000#	100.0#	0#	-47.92#
132	A2	13a,17b-20S-Ethyldiacholest	0.196	0.000#	100.0#	0#	-48.19#
133	A2	14a,17a-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.34#
134	A2	14a,17a-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-49.06#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.41#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-50.30#
137	A2	14b(H),17b(H)-20R-Cholestan	0.196	0.000#	100.0#	0#	-47.21#
138	A2	14b(H),17b(H)-20S-Cholestan	0.196	0.000#	100.0#	0#	-47.30#
139	A2	14b,17b-20R-Methylcholestan	0.196	0.000#	100.0#	0#	-48.52#
140	A2	14b,17b-20S-Methylcholestan	0.196	0.000#	100.0#	0#	-48.59#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.196	0.000#	100.0#	0#	-49.64#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.196	0.000#	100.0#	0#	-49.69#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB13\
Data File : P18195.D
Acq On : 14 Feb 2006 5:26 am
Operator : AC
Sample : C1021303
Misc : PAH STD
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 14 07:39:56 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration

NS 2/14/06

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.49	164	51803m	500.00 ng/mL	-0.02
72) Chrysene-d12	42.94	240	82228	500.00 ng/mL	-0.04
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.17	152	53474	481.51 ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.15%#		
58) Pyrene-d10	38.02	212	115404	505.42 ng/mL	-0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 50.54%		
81) Benzo[b]fluoranthene-d12	46.84	264	80515	491.71 ng/mL	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 49.17%#		
125) 5B(H)Cholane - Surr	43.57	217	15718	486.47 ng/ml	-0.05
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.65%#		

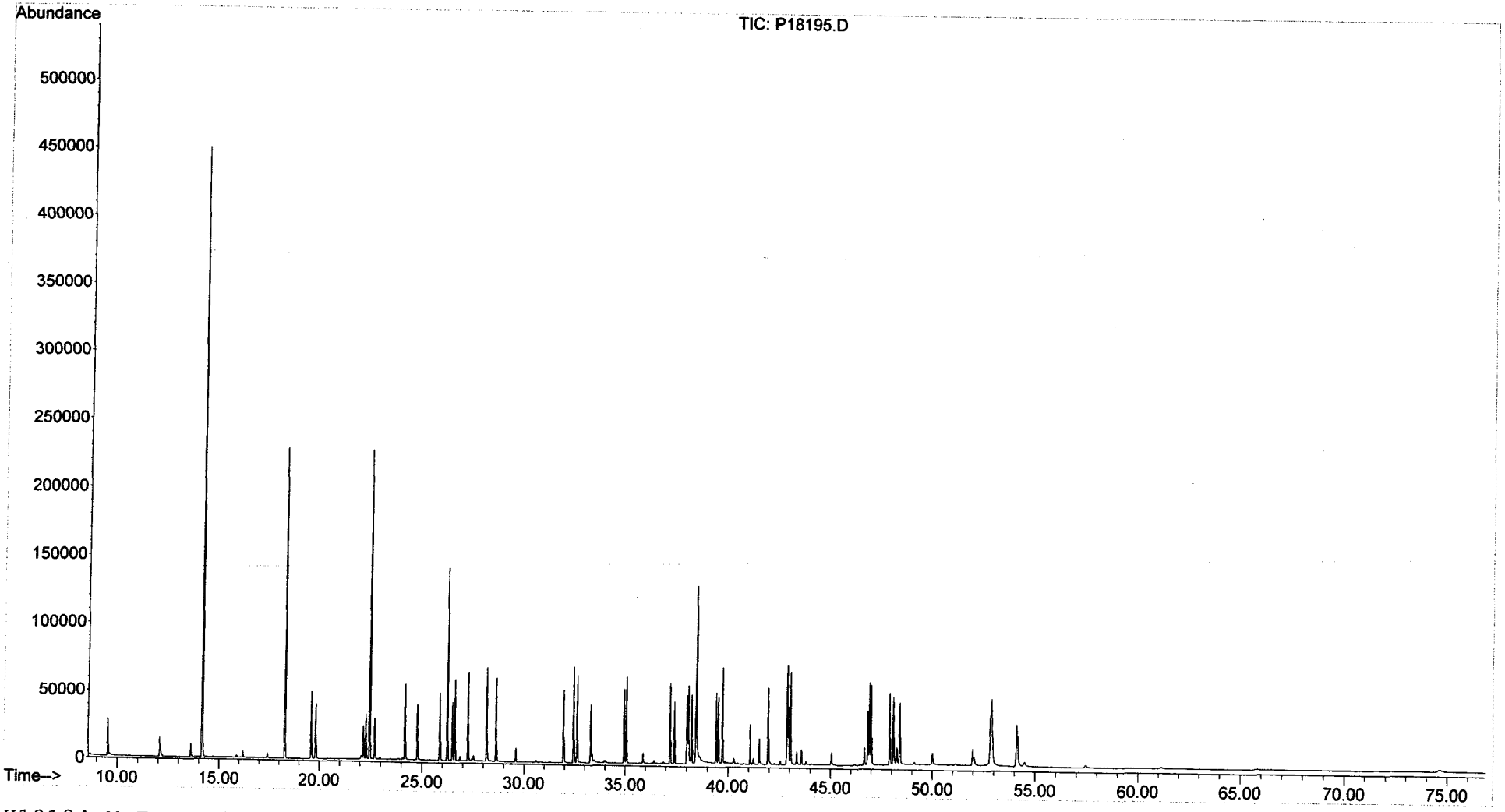
Target Compounds					Qvalue
3) trans-Decalin	16.20	138	10311	230.41 ng/mL	100
4) cis-Decalin	17.42	138	7876	233.90 ng/mL	100
9) Naphthalene	19.61	128	119933	453.34 ng/mL#	100
15) 2-Methylnaphthalene	22.29	142	78518	468.82 ng/mL#	100
16) 1-Methylnaphthalene	22.72	142	74691	473.71 ng/mL#	100
17) Benzothiophene	19.83	134	104839	444.28 ng/mL	100
22) Biphenyl	24.18	154	96277	462.38 ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.78	156	66771	480.40 ng/mL#	100
24) Dibenzofuran	27.26	168	108646	464.48 ng/mL	97
25) Acenaphthylene	25.87	152	121148	477.60 ng/mL#	100
26) Acenaphthene	26.62	153	74420	472.31 ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.18	170	59583	477.53 ng/mL	98
28) Fluorene	28.64	166	80914	457.89 ng/mL	99
32) Dibenzothiophene	31.94	184	116906	448.60 ng/mL	99
41) Phenanthrene	32.44	178	120382	459.41 ng/mL	100
52) Retene	39.44	234	29808	544.07 ng/mL	94
53) Anthracene	32.62	178	109899	453.30 ng/mL	99
54) Carbazole	33.29	167	99380	442.90 ng/mL	98
55) 1-Methylphenanthrene	34.95	192	84527	471.11 ng/mL	98
56) Fluoranthene	37.21	202	130564m	467.97 ng/mL	
57) Benzo(b)fluorene	39.73	216	81326	499.47 ng/mL	98
59) Pyrene	38.08	202	130559	460.10 ng/mL	98
64) Naphthobenzothiophene	41.95	234	130143	490.25 ng/ml	97
65) Naphthobenzothiophene-2,1-	41.95	234	130185	490.41 ng/mL	97
73) Benz[a]anthracene	42.88	228	123407m	493.02 ng/mL	
74) Chrysene	43.04	228	121021m	473.17 ng/mL	
75) Chrysene/Triphenylene	43.04	228	120884m	472.63 ng/mL	
82) Benzo[b]fluoranthene	46.93	252	123180	479.17 ng/mL	100
83) Benzo[k]fluoranthene	47.00	252	124893	467.00 ng/mL	100
85) Benzo[e]pyrene	47.91	252	116210	466.92 ng/mL	100
86) Benzo[a]pyrene	48.09	252	115400	468.62 ng/mL	100
87) Perylene	48.40	252	112554	467.59 ng/mL	100
88) Indeno[1,2,3-cd]pyrene	52.84	276	107751m	497.22 ng/mL	
89) Dibenz[a,h]anthracene	52.90	278	115336	522.14 ng/mL	99
90) Benzo[g,h,i]perylene	54.10	276	119310	477.78 ng/mL	100
91) 17a(H),21B(H)-hopane - C30	51.97	191	30298m	419.64 ng/mL	
92) Hopane (T19)	51.97	191	30259m	419.10 ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB13\
Data File : P18195.D
Acq On : 14 Feb 2006 5:26 am
Operator : AC
Sample : C1021303
Misc : PAH STD
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 14 07:39:56 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\JAN2006\PAH10104.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Feb 07 06:15:29 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH3\January06\JAN26\
Data File : P34922.D
Acq On : 1 Feb 2006 4:50 pm
Operator : AC
Sample : C3012612
Misc : STD
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 02 07:15:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

MG 2/2/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	0#	-30.25#
2	t	Decalin	0.000	0.000#	0.0	0#	-18.29#
3	A1	trans-Decalin	0.000	0.000#	0.0	0#	-18.29#
4	t	cis-Decalin	0.000	0.000#	0.0	0#	-19.72#
5	A2	C1-Decalins	0.000	0.000#	0.0	0#	-19.82#
6	A2	C2-Decalins	0.000	0.000#	0.0	0#	-21.94#
7	A2	C3-Decalins	0.000	0.000#	0.0	0#	-24.86#
8	A2	C4-Decalins	0.000	0.000#	0.0	0#	-28.16#
9	A1	Naphthalene	0.000	0.000#	0.0	0#	-22.05#
10	A2	C1-Naphthalenes	0.000	0.000#	0.0	0#	-25.27#
11	A2	C2-Naphthalenes	0.000	0.000#	0.0	0#	-28.76#
12	A2	C3-Naphthalenes	0.000	0.000#	0.0	0#	-32.90#
13	A2	C4-Naphthalenes	0.000	0.000#	0.0	0#	-36.23#
14	s	2-Methylnaphthalene-d10	0.000	0.000#	0.0	0#	-25.12#
15	t	2-Methylnaphthalene	0.000	0.000#	0.0	0#	-25.25#
16	t	1-Methylnaphthalene	0.000	0.000#	0.0	0#	-25.76#
17	A1	Benzothiophene	0.000	0.000#	0.0	0#	-22.31#
18	A2	C1-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-24.80#
19	A2	C2-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-28.88#
20	A2	C3-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-31.66#
21	A2	C4-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-33.76#
22	t	Biphenyl	0.000	0.000#	0.0	0#	-27.52#
23	t	2,6-Dimethylnaphthalene	0.000	0.000#	0.0	0#	-28.23#
24	t	Dibenzofuran	0.000	0.000#	0.0	0#	-31.16#
25	t	Acenaphthylene	0.000	0.000#	0.0	0#	-29.50#
26	t	Acenaphthene	0.000	0.000#	0.0	0#	-30.39#
27	t	2,3,5-Trimethylnaphthalene	0.000	0.000#	0.0	0#	-32.26#
28	A1	Fluorene	0.000	0.000#	0.0	0#	-32.78#
29	A2	C1-Fluorenes	0.000	0.000#	0.0	0#	-35.62#
30	A2	C2-Fluorenes	0.000	0.000#	0.0	0#	-38.24#
31	A2	C3-Fluorenes	0.000	0.000#	0.0	0#	-40.44#
32	A1	Dibenzothiophene	0.000	0.000#	0.0	0#	-36.72#
33	A2	OTP	0.000	0.000#	0.0	0#	-39.42#
34	A2	C1-Dibenzothiophenes	0.000	0.000#	0.0	0#	-38.85#
35	A2	C2-Dibenzothiophenes	0.000	0.000#	0.0	0#	-41.30#
36	A2	C3-Dibenzothiophenes	0.000	0.000#	0.0	0#	-43.04#
37	A2	C4-Dibenzothiophenes	0.000	0.000#	0.0	0#	-45.74#
38	A1	Phenanthrene	0.000	0.000#	0.0	0#	-37.32#
39	A2	C1-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-40.33#
40	A2	C2-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-42.64#
41	A2	5AA IS BKGD	0.000	0.000#	0.0	0#	-42.12#
42	A2	C3-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-46.07#
43	A2	C4-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-45.69#
44	A2	Retene	0.000	0.000#	0.0	0#	-45.69#
45	t	Anthracene	0.000	0.000#	0.0	0#	-37.53#
46	t	Carbazole	0.000	0.000#	0.0	0#	-50.34#
47	t	1-Methylphenanthrene	0.000	0.000#	0.0	0#	-40.30#
48	A1	Fluoranthene	0.000	0.000#	0.0	0#	-42.99#
49	A2	Benzo(b)fluorene	0.000	0.000#	0.0	0#	-46.01#
50	s	Pyrene-d10	0.000	0.000#	0.0	0#	-43.94#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH3\January06\JAN26\
Data File : P34922.D
Acq On : 1 Feb 2006 4:50 pm
Operator : AC
Sample : C3012612
Misc : STD
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 02 07:15:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A1	Pyrene	0.000	0.000#	0.0	0#	-44.03#
52	A2	C1-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-45.71#
53	A2	C2-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-48.25#
54	A2	C3-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-50.28#
55	A2	C4-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-51.91#
56	A1	Naphthobenzothiophene	0.000	0.000#	0.0	0#	-48.62#
57	A2	Naphthobenzothiophene-2,1-D	0.000	0.000#	0.0	0#	-48.62#
58	A2	Naphthobenzothiophene-1,2-D	0.000	0.000#	0.0	0#	-49.05#
59	A2	Naphthobenzothiophene-2,3-D	0.000	0.000#	0.0	0#	-49.40#
60	A2	C1-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-51.13#
61	A2	C2-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-52.76#
62	A2	C3-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-54.61#
63	A2	C4-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-55.82#
64	i	Chrysene-d12	1.000	1.000	0.0	204#	-0.04
65	t	Benz[a]anthracene	0.000	0.000#	0.0	0#	-43.38#
66	t	Chrysene	0.000	0.000#	0.0	0#	-43.54#
67	A1	Chrysene/Triphenylene	0.000	0.000#	0.0	0#	-43.54#
68	A2	C1-Chrysenes	0.000	0.000#	0.0	0#	-45.65#
69	A2	C2-Chrysenes	0.000	0.000#	0.0	0#	-47.26#
70	A2	BBF-d12 Surr BKGD	0.000	0.000#	0.0	0#	-47.50#
71	A2	C3-Chrysenes	0.000	0.000#	0.0	0#	-49.82#
72	A2	C4-Chrysenes	0.000	0.000#	0.0	0#	-49.49#
73	s	Benzo[b]fluoranthene-d12	0.000	0.000#	0.0	0#	-47.50#
74	t	Benzo[b]fluoranthene	0.000	0.000#	0.0	0#	-47.58#
75	A1	Benzo[k]fluoranthene	0.000	0.000#	0.0	0#	-47.66#
76	A2	Benzo[a]fluoranthene	0.000	0.000#	0.0	0#	-48.14#
77	t	Benzo[e]pyrene	0.000	0.000#	0.0	0#	-48.54#
78	t	Benzo[a]pyrene	0.000	0.000#	0.0	0#	-48.71#
79	t	Perylene	0.000	0.000#	0.0	0#	-49.00#
80	t	Indeno[1,2,3-cd]pyrene	0.000	0.000#	0.0	0#	-52.99#
81	t	Dibenz[a,h]anthracene	0.000	0.000#	0.0	0#	-53.07#
82	t	Benzo[g,h,i]perylene	0.000	0.000#	0.0	0#	-54.10#
83	A1	17a(H),21B(H)-hopane - C30H	0.430	0.450	-4.7	245#	-0.03
84	A2	Hopane (T19)	0.430	0.450	-4.7	245#	-0.03
85	A2	C23 Tricyclic Terpane (T4)	0.430	0.000#	100.0#	0#	-40.95#
86	A2	C24 Tricyclic Terpane (T5)	0.430	0.000#	100.0#	0#	-41.68#
87	A2	C25 Tricyclic Terpane (T6)	0.430	0.000#	100.0#	0#	-43.16#
88	A2	C24 Tetracyclic Terpane (T6	0.430	0.000#	100.0#	0#	-44.49#
89	A2	C26 Tricyclic Terpane-22S (	0.430	0.000#	100.0#	0#	-44.22#
90	A2	C26 Tricyclic Terpane-22R (	0.430	0.000#	100.0#	0#	-44.32#
91	A2	C28 Tricyclic Terpane-22S (	0.430	0.000#	100.0#	0#	-46.60#
92	A2	C28 Tricyclic Terpane-22R (	0.430	0.000#	100.0#	0#	-46.77#
93	A2	C29 Tricyclic Terpane-22S (	0.430	0.000#	100.0#	0#	-47.29#
94	A2	C29 Tricyclic Terpane-22R (	0.430	0.000#	100.0#	0#	-47.49#
95	A2	18a-22,29,30-Trisnorneohopa	0.430	0.000#	100.0#	0#	-48.65#
96	A2	C30 Tricyclic Terpane-22S	0.430	0.000#	100.0#	0#	-48.73#
97	A2	C30 Tricyclic Terpane-22R	0.430	0.000#	100.0#	0#	-48.97#
98	A2	17a(H)-22,29,30-Trisnorhopa	0.430	0.000#	100.0#	0#	-49.20#
99	A2	17a/b,21b/a 28,30-Bisnorhop	0.430	0.000#	100.0#	0#	-50.43#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH3\January06\JAN26\
Data File : P34922.D
Acq On : 1 Feb 2006 4:50 pm
Operator : AC
Sample : C3012612
Misc : STD
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 02 07:15:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	17a(H),21b(H)-25-Norhopane	0.430	0.000#	100.0#	0#	-50.19#
101	A2	30-Norhopane (T15)	0.430	0.000#	100.0#	0#	-51.10#
102	A2	18a(H)-30-Norneohopane-C29T	0.430	0.000#	100.0#	0#	-51.20#
103	A2	17a(H)-Diahopane (X)	0.430	0.000#	100.0#	0#	-51.33#
104	A2	30-Normoretane (T17)	0.430	0.000#	100.0#	0#	-51.89#
105	A2	18a(H)&18b(H)-Oleananes (T1	0.430	0.000#	100.0#	0#	-52.31#
106	A2	Moretane (T20)	0.430	0.000#	100.0#	0#	-53.20#
107	A2	30-Homohopane-22S (T21)	0.430	0.000#	100.0#	0#	-54.32#
108	A2	30-Homohopane-22R (T22)	0.430	0.000#	100.0#	0#	-54.55#
109	A2	30,31-Bishomohopane-22S (T2	0.430	0.000#	100.0#	0#	-55.91#
110	A2	30,31-Bishomohopane-22R (T2	0.430	0.000#	100.0#	0#	-56.30#
111	A2	30,31-Trishomohopane-22S (T	0.430	0.000#	100.0#	0#	-58.09#
112	A2	30,31-Trishomohopane-22R (T	0.430	0.000#	100.0#	0#	-58.73#
113	A2	Tetrakishomohopane-22S (T32	0.430	0.000#	100.0#	0#	-60.79#
114	A2	Tetrakishomohopane-22R (T33	0.430	0.000#	100.0#	0#	-61.70#
115	A2	Pentakishomohopane-22S (T34	0.430	0.000#	100.0#	0#	-64.01#
116	A2	Pentakishomohopane-22R (T35	0.430	0.000#	100.0#	0#	-65.32#
117	SA1	5B(H)Cholane - Surr	0.210	0.226	-7.6	222#	-0.02
118	A2	13b(H),17a(H)-20S-Diacholes	0.210	0.000#	100.0#	0#	-45.44#
119	A2	13b(H),17a(H)-20R-Diacholes	0.210	0.000#	100.0#	0#	-45.85#
120	A2	13b,17a-20S-Methyldiacholes	0.210	0.000#	100.0#	0#	-46.56#
121	A2	14a(H),17a(H)-20S-Cholestan	0.210	0.000#	100.0#	0#	-47.44#
122	A2	14a(H),17a(H)-20R-Cholestan	0.210	0.000#	100.0#	0#	-47.96#
123	A2	13b,17a-20R-Ethyldiacholest	0.210	0.000#	100.0#	0#	-48.24#
124	A2	13a,17b-20S-Ethyldiacholest	0.210	0.000#	100.0#	0#	-48.51#
125	A2	14a,17a-20S-Methylcholestan	0.210	0.000#	100.0#	0#	-48.68#
126	A2	14a,17a-20R-Methylcholestan	0.210	0.000#	100.0#	0#	-49.41#
127	A2	14a(H),17a(H)-20S-Ethylchol	0.210	0.000#	100.0#	0#	-49.77#
128	A2	14a(H),17a(H)-20R-Ethylchol	0.210	0.000#	100.0#	0#	-50.69#
129	A2	14b(H),17b(H)-20R-Cholestan	0.210	0.000#	100.0#	0#	-47.52#
130	A2	14b(H),17b(H)-20S-Cholestan	0.210	0.000#	100.0#	0#	-47.61#
131	A2	14b,17b-20R-Methylcholestan	0.210	0.000#	100.0#	0#	-48.84#
132	A2	14b,17b-20S-Methylcholestan	0.210	0.000#	100.0#	0#	-48.93#
133	A2	14b(H),17b(H)-20R-Ethylchol	0.210	0.000#	100.0#	0#	-50.02#
134	A2	14b(H),17b(H)-20S-Ethylchol	0.210	0.000#	100.0#	0#	-50.06#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH3\January06\JAN26\
Data File : P34922.D
Acq On : 1 Feb 2006 4:50 pm
Operator : AC
Sample : C3012612
Misc : STD
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 02 07:15:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

MB 2/2/06

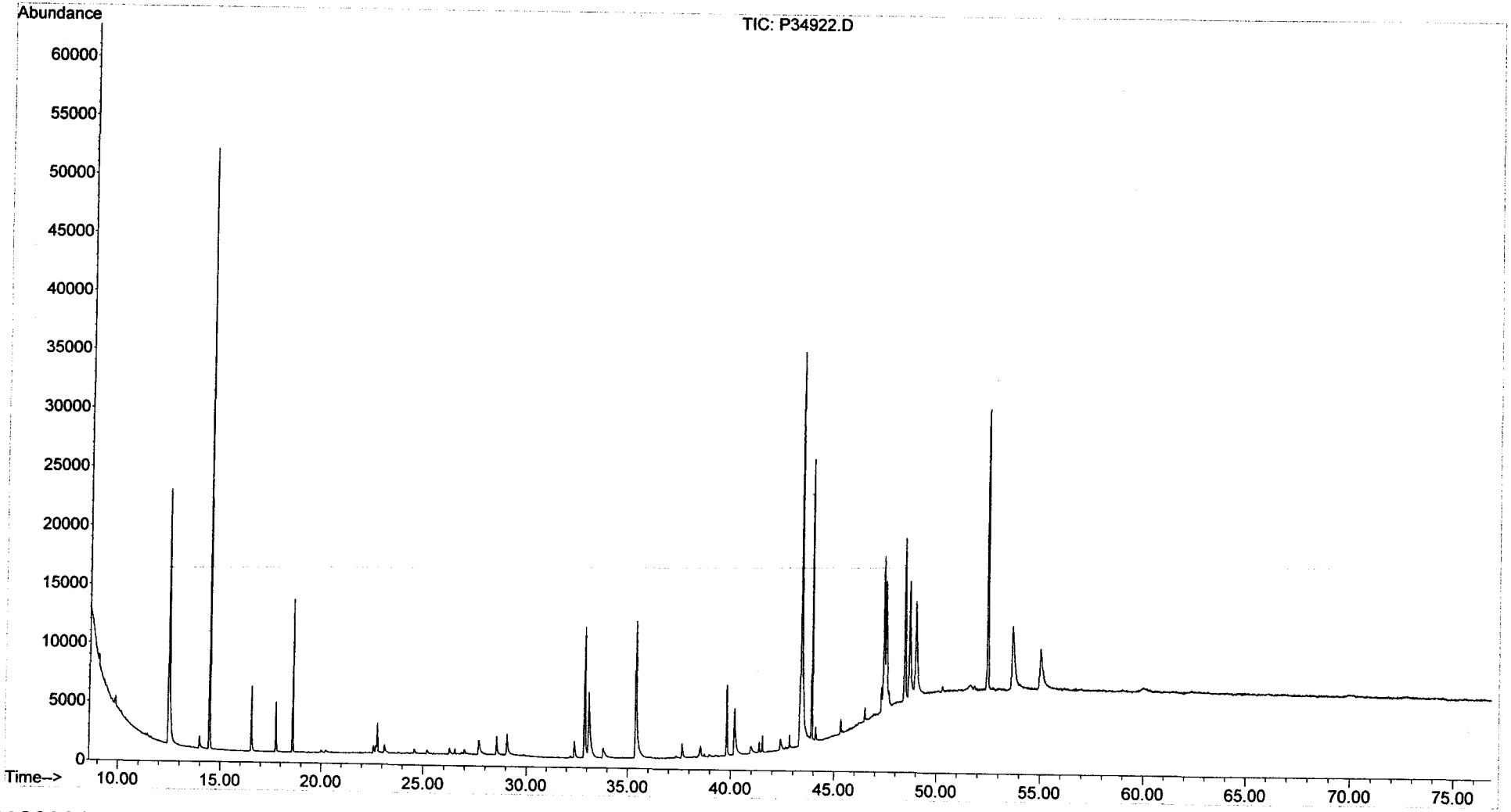
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.37	240	124579	500.00	ng/mL	-0.04
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range	50 - 130	Recovery	=	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range	50 - 130	Recovery	=	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range	50 - 130	Recovery	=	0.00%#	
117) 5B(H)Cholane - Surr	43.90	217	28097	536.64	ng/ml	-0.02
Spiked Amount 1000.000	Range	50 - 130	Recovery	=	53.66%	
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.45	191	56074	523.78	ng/mL	100
84) Hopane (T19)	52.45	191	56074	523.78	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH3\January06\JAN26\
Data File : P34922.D
Acq On : 1 Feb 2006 4:50 pm
Operator : AC
Sample : C3012612
Misc : STD
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 02 07:15:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH3\January06\JAN26\
Data File : P34935.D
Acq On : 2 Feb 2006 12:38 pm
Operator : AC
Sample : C3012613
Misc : STD
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 03 06:44:18 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

MS 2/3/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	0#	-30.25#
2	t	Decalin	0.000	0.000#	0.0	0#	-18.29#
3	A1	trans-Decalin	0.000	0.000#	0.0	0#	-18.29#
4	t	cis-Decalin	0.000	0.000#	0.0	0#	-19.72#
5	A2	C1-Decalins	0.000	0.000#	0.0	0#	-19.82#
6	A2	C2-Decalins	0.000	0.000#	0.0	0#	-21.94#
7	A2	C3-Decalins	0.000	0.000#	0.0	0#	-24.86#
8	A2	C4-Decalins	0.000	0.000#	0.0	0#	-28.16#
9	A1	Naphthalene	0.000	0.000#	0.0	0#	-22.05#
10	A2	C1-Naphthalenes	0.000	0.000#	0.0	0#	-25.27#
11	A2	C2-Naphthalenes	0.000	0.000#	0.0	0#	-28.76#
12	A2	C3-Naphthalenes	0.000	0.000#	0.0	0#	-32.90#
13	A2	C4-Naphthalenes	0.000	0.000#	0.0	0#	-36.23#
14	s	2-Methylnaphthalene-d10	0.000	0.000#	0.0	0#	-25.12#
15	t	2-Methylnaphthalene	0.000	0.000#	0.0	0#	-25.25#
16	t	1-Methylnaphthalene	0.000	0.000#	0.0	0#	-25.76#
17	A1	Benzothiophene	0.000	0.000#	0.0	0#	-22.31#
18	A2	C1-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-24.80#
19	A2	C2-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-28.88#
20	A2	C3-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-31.66#
21	A2	C4-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-33.76#
22	t	Biphenyl	0.000	0.000#	0.0	0#	-27.52#
23	t	2,6-Dimethylnaphthalene	0.000	0.000#	0.0	0#	-28.23#
24	t	Dibenzofuran	0.000	0.000#	0.0	0#	-31.16#
25	t	Acenaphthylene	0.000	0.000#	0.0	0#	-29.50#
26	t	Acenaphthene	0.000	0.000#	0.0	0#	-30.39#
27	t	2,3,5-Trimethylnaphthalene	0.000	0.000#	0.0	0#	-32.26#
28	A1	Fluorene	0.000	0.000#	0.0	0#	-32.78#
29	A2	C1-Fluorenes	0.000	0.000#	0.0	0#	-35.62#
30	A2	C2-Fluorenes	0.000	0.000#	0.0	0#	-38.24#
31	A2	C3-Fluorenes	0.000	0.000#	0.0	0#	-40.44#
32	A1	Dibenzothiophene	0.000	0.000#	0.0	0#	-36.72#
33	A2	OTP	0.000	0.000#	0.0	0#	-39.42#
34	A2	C1-Dibenzothiophenes	0.000	0.000#	0.0	0#	-38.85#
35	A2	C2-Dibenzothiophenes	0.000	0.000#	0.0	0#	-41.30#
36	A2	C3-Dibenzothiophenes	0.000	0.000#	0.0	0#	-43.04#
37	A2	C4-Dibenzothiophenes	0.000	0.000#	0.0	0#	-45.74#
38	A1	Phenanthrene	0.000	0.000#	0.0	0#	-37.32#
39	A2	C1-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-40.33#
40	A2	C2-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-42.64#
41	A2	5AA IS BKGD	0.000	0.000#	0.0	0#	-42.12#
42	A2	C3-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-46.07#
43	A2	C4-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-45.69#
44	A2	Retene	0.000	0.000#	0.0	0#	-45.69#
45	t	Anthracene	0.000	0.000#	0.0	0#	-37.53#
46	t	Carbazole	0.000	0.000#	0.0	0#	-50.34#
47	t	1-Methylphenanthrene	0.000	0.000#	0.0	0#	-40.30#
48	A1	Fluoranthene	0.000	0.000#	0.0	0#	-42.99#
49	A2	Benzo(b)fluorene	0.000	0.000#	0.0	0#	-46.01#
50	s	Pyrene-d10	0.000	0.000#	0.0	0#	-43.94#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH3\January06\JAN26\
Data File : P34935.D
Acq On : 2 Feb 2006 12:38 pm
Operator : AC
Sample : C3012613
Misc : STD
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 03 06:44:18 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A1	Pyrene	0.000	0.000#	0.0	0#	-44.03#
52	A2	C1-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-45.71#
53	A2	C2-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-48.25#
54	A2	C3-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-50.28#
55	A2	C4-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-51.91#
56	A1	Naphthobenzothiophene	0.000	0.000#	0.0	0#	-48.62#
57	A2	Naphthobenzothiophene-2,1-D	0.000	0.000#	0.0	0#	-48.62#
58	A2	Naphthobenzothiophene-1,2-D	0.000	0.000#	0.0	0#	-49.05#
59	A2	Naphthobenzothiophene-2,3-D	0.000	0.000#	0.0	0#	-49.40#
60	A2	C1-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-51.13#
61	A2	C2-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-52.76#
62	A2	C3-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-54.61#
63	A2	C4-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-55.82#
64	i	Chrysene-d12	1.000	1.000	0.0	134	-0.02
65	t	Benz[a]anthracene	0.000	0.000#	0.0	0#	-43.38#
66	t	Chrysene	0.000	0.000#	0.0	0#	-43.54#
67	A1	Chrysene/Triphenylene	0.000	0.000#	0.0	0#	-43.54#
68	A2	C1-Chrysenes	0.000	0.000#	0.0	0#	-45.65#
69	A2	C2-Chrysenes	0.000	0.000#	0.0	0#	-47.26#
70	A2	BBF-d12 Surr BKGD	0.000	0.000#	0.0	0#	-47.50#
71	A2	C3-Chrysenes	0.000	0.000#	0.0	0#	-49.82#
72	A2	C4-Chrysenes	0.000	0.000#	0.0	0#	-49.49#
73	s	Benzo[b]fluoranthene-d12	0.000	0.000#	0.0	0#	-47.50#
74	t	Benzo[b]fluoranthene	0.000	0.000#	0.0	0#	-47.58#
75	A1	Benzo[k]fluoranthene	0.000	0.000#	0.0	0#	-47.66#
76	A2	Benzo[a]fluoranthene	0.000	0.000#	0.0	0#	-48.14#
77	t	Benzo[e]pyrene	0.000	0.000#	0.0	0#	-48.54#
78	t	Benzo[a]pyrene	0.000	0.000#	0.0	0#	-48.71#
79	t	Perylene	0.000	0.000#	0.0	0#	-49.00#
80	t	Indeno[1,2,3-cd]pyrene	0.000	0.000#	0.0	0#	-52.99#
81	t	Dibenz[a,h]anthracene	0.000	0.000#	0.0	0#	-53.07#
82	t	Benzo[g,h,i]perylene	0.000	0.000#	0.0	0#	-54.10#
83	A1	17a(H),21B(H)-hopane - C30H	0.430	0.472	-9.8	169	-0.03
84	A2	Hopane (T19)	0.430	0.472	-9.8	169	-0.03
85	A2	C23 Tricyclic Terpane (T4)	0.430	0.000#	100.0#	0#	-40.95#
86	A2	C24 Tricyclic Terpane (T5)	0.430	0.000#	100.0#	0#	-41.68#
87	A2	C25 Tricyclic Terpane (T6)	0.430	0.000#	100.0#	0#	-43.16#
88	A2	C24 Tetracyclic Terpane (T6	0.430	0.000#	100.0#	0#	-44.49#
89	A2	C26 Tricyclic Terpane-22S (	0.430	0.000#	100.0#	0#	-44.22#
90	A2	C26 Tricyclic Terpane-22R (	0.430	0.000#	100.0#	0#	-44.32#
91	A2	C28 Tricyclic Terpane-22S (	0.430	0.000#	100.0#	0#	-46.60#
92	A2	C28 Tricyclic Terpane-22R (	0.430	0.000#	100.0#	0#	-46.77#
93	A2	C29 Tricyclic Terpane-22S (	0.430	0.000#	100.0#	0#	-47.29#
94	A2	C29 Tricyclic Terpane-22R (	0.430	0.000#	100.0#	0#	-47.49#
95	A2	18a-22,29,30-Trisnorneohopa	0.430	0.000#	100.0#	0#	-48.65#
96	A2	C30 Tricyclic Terpane-22S	0.430	0.000#	100.0#	0#	-48.73#
97	A2	C30 Tricyclic Terpane-22R	0.430	0.000#	100.0#	0#	-48.97#
98	A2	17a(H)-22,29,30-Trisnorhopa	0.430	0.000#	100.0#	0#	-49.20#
99	A2	17a/b,21b/a 28,30-Bisnorhop	0.430	0.000#	100.0#	0#	-50.43#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH3\January06\JAN26\
Data File : P34935.D
Acq On : 2 Feb 2006 12:38 pm
Operator : AC
Sample : C3012613
Misc : STD
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 03 06:44:18 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	17a(H),21b(H)-25-Norhopane	0.430	0.000#	100.0#	0#	-50.19#
101	A2	30-Norhopane (T15)	0.430	0.000#	100.0#	0#	-51.10#
102	A2	18a(H)-30-Norneohopane-C29T	0.430	0.000#	100.0#	0#	-51.20#
103	A2	17a(H)-Diahopane (X)	0.430	0.000#	100.0#	0#	-51.33#
104	A2	30-Normoretane (T17)	0.430	0.000#	100.0#	0#	-51.89#
105	A2	18a(H)&18b(H)-Oleananes (T1	0.430	0.000#	100.0#	0#	-52.31#
106	A2	Moretane (T20)	0.430	0.000#	100.0#	0#	-53.20#
107	A2	30-Homohopane-22S (T21)	0.430	0.000#	100.0#	0#	-54.32#
108	A2	30-Homohopane-22R (T22)	0.430	0.000#	100.0#	0#	-54.55#
109	A2	30,31-Bishomohopane-22S (T2	0.430	0.000#	100.0#	0#	-55.91#
110	A2	30,31-Bishomohopane-22R (T2	0.430	0.000#	100.0#	0#	-56.30#
111	A2	30,31-Trishomohopane-22S (T	0.430	0.000#	100.0#	0#	-58.09#
112	A2	30,31-Trishomohopane-22R (T	0.430	0.000#	100.0#	0#	-58.73#
113	A2	Tetrakishomohopane-22S (T32	0.430	0.000#	100.0#	0#	-60.79#
114	A2	Tetrakishomohopane-22R (T33	0.430	0.000#	100.0#	0#	-61.70#
115	A2	Pentakishomohopane-22S (T34	0.430	0.000#	100.0#	0#	-64.01#
116	A2	Pentakishomohopane-22R (T35	0.430	0.000#	100.0#	0#	-65.32#
117	SA1	5B(H)Cholane - Surr	0.210	0.235	-11.9	152	-0.02
118	A2	13b(H),17a(H)-20S-Diacholes	0.210	0.000#	100.0#	0#	-45.44#
119	A2	13b(H),17a(H)-20R-Diacholes	0.210	0.000#	100.0#	0#	-45.85#
120	A2	13b,17a-20S-Methyldiacholes	0.210	0.000#	100.0#	0#	-46.56#
121	A2	14a(H),17a(H)-20S-Cholestan	0.210	0.000#	100.0#	0#	-47.44#
122	A2	14a(H),17a(H)-20R-Cholestan	0.210	0.000#	100.0#	0#	-47.96#
123	A2	13b,17a-20R-Ethyldiacholest	0.210	0.000#	100.0#	0#	-48.24#
124	A2	13a,17b-20S-Ethyldiacholest	0.210	0.000#	100.0#	0#	-48.51#
125	A2	14a,17a-20S-Methylcholestan	0.210	0.000#	100.0#	0#	-48.68#
126	A2	14a,17a-20R-Methylcholestan	0.210	0.000#	100.0#	0#	-49.41#
127	A2	14a(H),17a(H)-20S-Ethylchol	0.210	0.000#	100.0#	0#	-49.77#
128	A2	14a(H),17a(H)-20R-Ethylchol	0.210	0.000#	100.0#	0#	-50.69#
129	A2	14b(H),17b(H)-20R-Cholestan	0.210	0.000#	100.0#	0#	-47.52#
130	A2	14b(H),17b(H)-20S-Cholestan	0.210	0.000#	100.0#	0#	-47.61#
131	A2	14b,17b-20R-Methylcholestan	0.210	0.000#	100.0#	0#	-48.84#
132	A2	14b,17b-20S-Methylcholestan	0.210	0.000#	100.0#	0#	-48.93#
133	A2	14b(H),17b(H)-20R-Ethylchol	0.210	0.000#	100.0#	0#	-50.02#
134	A2	14b(H),17b(H)-20S-Ethylchol	0.210	0.000#	100.0#	0#	-50.06#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH3\January06\JAN26\
Data File : P34935.D
Acq On : 2 Feb 2006 12:38 pm
Operator : AC
Sample : C3012613
Misc : STD
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 03 06:44:18 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration

CMG 2/3/06

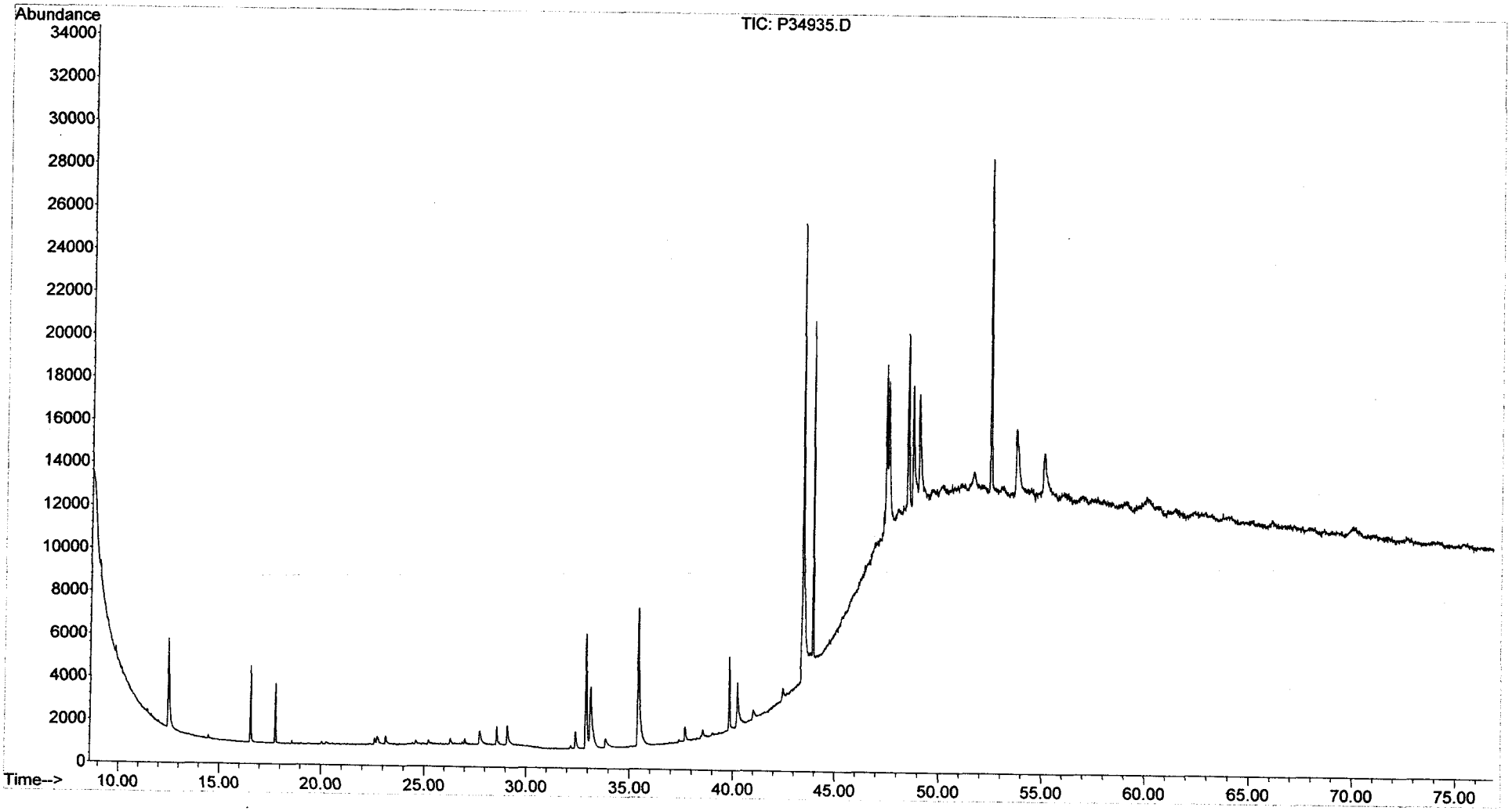
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.39	240	81704	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.90	217	19183	558.65	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 55.86%			
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.45	191	38597	549.72	ng/mL	100
84) Hopane (T19)	52.45	191	38597	549.72	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH3\January06\JAN26\
Data File : P34935.D
Acq On : 2 Feb 2006 12:38 pm
Operator : AC
Sample : C3012613
Misc : STD
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 03 06:44:18 2006
Quant Method : O:\FORENSICS\METHODS\PAH3\JAN06\BIO30111.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Feb 01 10:33:05 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28208.D
Acq On : 10 Feb 2006 11:16 pm
Operator : AC
Sample : C2021001
Misc : std
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 13 06:52:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

ahs 2/13/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	0#	-30.25#
2	t	Decalin	0.000	0.000#	0.0	0#	-18.29#
3	A1	trans-Decalin	0.000	0.000#	0.0	0#	-18.29#
4	t	cis-Decalin	0.000	0.000#	0.0	0#	-19.72#
5	A2	C1-Decalins	0.000	0.000#	0.0	0#	-19.82#
6	A2	C2-Decalins	0.000	0.000#	0.0	0#	-21.94#
7	A2	C3-Decalins	0.000	0.000#	0.0	0#	-24.86#
8	A2	C4-Decalins	0.000	0.000#	0.0	0#	-28.16#
9	A1	Naphthalene	0.000	0.000#	0.0	0#	-22.05#
10	A2	C1-Naphthalenes	0.000	0.000#	0.0	0#	-25.27#
11	A2	C2-Naphthalenes	0.000	0.000#	0.0	0#	-28.76#
12	A2	C3-Naphthalenes	0.000	0.000#	0.0	0#	-32.90#
13	A2	C4-Naphthalenes	0.000	0.000#	0.0	0#	-36.23#
14	s	2-Methylnaphthalene-d10	0.000	0.000#	0.0	0#	-25.12#
15	t	2-Methylnaphthalene	0.000	0.000#	0.0	0#	-25.25#
16	t	1-Methylnaphthalene	0.000	0.000#	0.0	0#	-25.76#
17	A1	Benzothiophene	0.000	0.000#	0.0	0#	-22.31#
18	A2	C1-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-24.80#
19	A2	C2-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-28.88#
20	A2	C3-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-31.66#
21	A2	C4-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-33.76#
22	t	Biphenyl	0.000	0.000#	0.0	0#	-27.52#
23	t	2,6-Dimethylnaphthalene	0.000	0.000#	0.0	0#	-28.23#
24	t	Dibenzofuran	0.000	0.000#	0.0	0#	-31.16#
25	t	Acenaphthylene	0.000	0.000#	0.0	0#	-29.50#
26	t	Acenaphthene	0.000	0.000#	0.0	0#	-30.39#
27	t	2,3,5-Trimethylnaphthalene	0.000	0.000#	0.0	0#	-32.26#
28	A1	Fluorene	0.000	0.000#	0.0	0#	-32.78#
29	A2	C1-Fluorenes	0.000	0.000#	0.0	0#	-35.62#
30	A2	C2-Fluorenes	0.000	0.000#	0.0	0#	-38.24#
31	A2	C3-Fluorenes	0.000	0.000#	0.0	0#	-40.44#
32	A1	Dibenzothiophene	0.000	0.000#	0.0	0#	-36.72#
33	A2	OTP	0.000	0.000#	0.0	0#	-39.42#
34	A2	C1-Dibenzothiophenes	0.000	0.000#	0.0	0#	-38.85#
35	A2	C2-Dibenzothiophenes	0.000	0.000#	0.0	0#	-41.30#
36	A2	C3-Dibenzothiophenes	0.000	0.000#	0.0	0#	-43.04#
37	A2	C4-Dibenzothiophenes	0.000	0.000#	0.0	0#	-45.74#
38	A1	Phenanthrene	0.000	0.000#	0.0	0#	-37.32#
39	A2	C1-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-40.33#
40	A2	C2-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-42.64#
41	A2	5AA IS BKGD	0.000	0.000#	0.0	0#	-42.12#
42	A2	C3-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-46.07#
43	A2	C4-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-45.69#
44	A2	Retene	0.000	0.000#	0.0	0#	-45.69#
45	t	Anthracene	0.000	0.000#	0.0	0#	-37.53#
46	t	Carbazole	0.000	0.000#	0.0	0#	-50.34#
47	t	1-Methylphenanthrene	0.000	0.000#	0.0	0#	-40.30#
48	A1	Fluoranthene	0.000	0.000#	0.0	0#	-42.99#
49	A2	Benzo(b)fluorene	0.000	0.000#	0.0	0#	-46.01#
50	s	Pyrene-d10	0.000	0.000#	0.0	0#	-43.94#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28208.D
Acq On : 10 Feb 2006 11:16 pm
Operator : AC
Sample : C2021001
Misc : std
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 13 06:52:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A1	Pyrene	0.000	0.000#	0.0	0#	-44.03#
52	A2	C1-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-45.71#
53	A2	C2-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-48.25#
54	A2	C3-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-50.28#
55	A2	C4-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-51.91#
56	A1	Naphthobenzothiophene	0.000	0.000#	0.0	0#	-48.62#
57	A2	Naphthobenzothiophene-2,1-D	0.000	0.000#	0.0	0#	-48.62#
58	A2	Naphthobenzothiophene-1,2-D	0.000	0.000#	0.0	0#	-49.05#
59	A2	Naphthobenzothiophene-2,3-D	0.000	0.000#	0.0	0#	-49.40#
60	A2	C1-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-51.13#
61	A2	C2-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-52.76#
62	A2	C3-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-54.61#
63	A2	C4-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-55.82#
64	i	Chrysene-d12	1.000	1.000	0.0	131	0.00
65	t	Benz[a]anthracene	0.000	0.000#	0.0	0#	-43.60#
66	t	Chrysene	0.000	0.000#	0.0	0#	-43.76#
67	A1	Chrysene/Triphenylene	0.000	0.000#	0.0	0#	-43.76#
68	A2	C1-Chrysenes	0.000	0.000#	0.0	0#	-45.88#
69	A2	C2-Chrysenes	0.000	0.000#	0.0	0#	-47.50#
70	A2	BBF-d12 Surr BKGD	0.000	0.000#	0.0	0#	-47.74#
71	A2	C3-Chrysenes	0.000	0.000#	0.0	0#	-50.07#
72	A2	C4-Chrysenes	0.000	0.000#	0.0	0#	-49.74#
73	s	Benzo[b]fluoranthene-d12	0.000	0.000#	0.0	0#	-47.74#
74	t	Benzo[b]fluoranthene	0.000	0.000#	0.0	0#	-47.81#
75	A1	Benzo[k]fluoranthene	0.000	0.000#	0.0	0#	-47.90#
76	A2	Benzo[a]fluoranthene	0.000	0.000#	0.0	0#	-48.38#
77	t	Benzo[e]pyrene	0.000	0.000#	0.0	0#	-48.78#
78	t	Benzo[a]pyrene	0.000	0.000#	0.0	0#	-48.95#
79	t	Perylene	0.000	0.000#	0.0	0#	-49.25#
80	t	Indeno[1,2,3-cd]pyrene	0.000	0.000#	0.0	0#	-53.26#
81	t	Dibenz[a,h]anthracene	0.000	0.000#	0.0	0#	-53.33#
82	t	Benzo[g,h,i]perylene	0.000	0.000#	0.0	0#	-54.38#
83	A1	17a(H),21B(H)-hopane - C30H	0.494	0.560	-13.4	171	-0.01
84	A2	Hopane (T19)	0.494	0.560	-13.4	171	-0.01
85	A2	C23 Tricyclic Terpane (T4)	0.494	0.000#	100.0#	0#	-41.22#
86	A2	C24 Tricyclic Terpane (T5)	0.494	0.000#	100.0#	0#	-41.94#
87	A2	C25 Tricyclic Terpane (T6)	0.494	0.000#	100.0#	0#	-43.43#
88	A2	C24 Tetracyclic Terpane (T6	0.494	0.000#	100.0#	0#	-44.77#
89	A2	C26 Tricyclic Terpane-22S (	0.494	0.000#	100.0#	0#	-44.49#
90	A2	C26 Tricyclic Terpane-22R (	0.494	0.000#	100.0#	0#	-44.59#
91	A2	C28 Tricyclic Terpane-22S (	0.494	0.000#	100.0#	0#	-46.87#
92	A2	C28 Tricyclic Terpane-22R (	0.494	0.000#	100.0#	0#	-47.04#
93	A2	C29 Tricyclic Terpane-22S (	0.494	0.000#	100.0#	0#	-47.58#
94	A2	C29 Tricyclic Terpane-22R (	0.494	0.000#	100.0#	0#	-47.78#
95	A2	18a-22,29,30-Trisnorneohopa	0.494	0.000#	100.0#	0#	-48.97#
96	A2	C30 Tricyclic Terpane-22S	0.494	0.000#	100.0#	0#	-49.05#
97	A2	C30 Tricyclic Terpane-22R	0.494	0.000#	100.0#	0#	-49.30#
98	A2	17a(H)-22,29,30-Trisnorhopa	0.494	0.000#	100.0#	0#	-49.55#
99	A2	17a/b,21b/a 28,30-Bisnorhop	0.494	0.000#	100.0#	0#	-50.79#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28208.D
Acq On : 10 Feb 2006 11:16 pm
Operator : AC
Sample : C2021001
Misc : std
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 13 06:52:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	17a(H),21b(H)-25-Norhopane	0.494	0.000#	100.0#	0#	-50.56#
101	A2	30-Norhopane (T15)	0.494	0.000#	100.0#	0#	-51.49#
102	A2	18a(H)-30-Norneohopane-C29T	0.494	0.000#	100.0#	0#	-51.60#
103	A2	17a(H)-Diahopane (X)	0.494	0.000#	100.0#	0#	-51.73#
104	A2	30-Normoretane (T17)	0.494	0.000#	100.0#	0#	-52.32#
105	A2	18a(H)&18b(H)-Oleananes (T1	0.494	0.000#	100.0#	0#	-52.76#
106	A2	Moretane (T20)	0.494	0.000#	100.0#	0#	-53.66#
107	A2	30-Homohopane-22S (T21)	0.494	0.000#	100.0#	0#	-54.83#
108	A2	30-Homohopane-22R (T22)	0.494	0.000#	100.0#	0#	-55.07#
109	A2	30,31-Bishomohopane-22S (T2	0.494	0.000#	100.0#	0#	-56.48#
110	A2	30,31-Bishomohopane-22R (T2	0.494	0.000#	100.0#	0#	-56.89#
111	A2	30,31-Trishomohopane-22S (T	0.494	0.000#	100.0#	0#	-58.74#
112	A2	30,31-Trishomohopane-22R (T	0.494	0.000#	100.0#	0#	-59.40#
113	A2	Tetrakishomohopane-22S (T32	0.494	0.000#	100.0#	0#	-61.55#
114	A2	Tetrakishomohopane-22R (T33	0.494	0.000#	100.0#	0#	-62.50#
115	A2	Pentakishomohopane-22S (T34	0.494	0.000#	100.0#	0#	-64.90#
116	A2	Pentakishomohopane-22R (T35	0.494	0.000#	100.0#	0#	-66.28#
117	SA1	5B(H)Cholane - Surr	0.213	0.241	-13.1	153	0.00
118	A2	13b(H),17a(H)-20S-Diacholes	0.213	0.000#	100.0#	0#	-45.71#
119	A2	13b(H),17a(H)-20R-Diacholes	0.213	0.000#	100.0#	0#	-46.13#
120	A2	13b,17a-20S-Methyldiacholes	0.213	0.000#	100.0#	0#	-46.83#
121	A2	14a(H),17a(H)-20S-Cholestan	0.213	0.000#	100.0#	0#	-47.72#
122	A2	14a(H),17a(H)-20R-Cholestan	0.213	0.000#	100.0#	0#	-48.26#
123	A2	13b,17a-20R-Ethyldiacholest	0.213	0.000#	100.0#	0#	-48.55#
124	A2	13a,17b-20S-Ethyldiacholest	0.213	0.000#	100.0#	0#	-48.82#
125	A2	14a,17a-20S-Methylcholestan	0.213	0.000#	100.0#	0#	-48.99#
126	A2	14a,17a-20R-Methylcholestan	0.213	0.000#	100.0#	0#	-49.75#
127	A2	14a(H),17a(H)-20S-Ethylchol	0.213	0.000#	100.0#	0#	-50.12#
128	A2	14a(H),17a(H)-20R-Ethylchol	0.213	0.000#	100.0#	0#	-51.06#
129	A2	14b(H),17b(H)-20R-Cholestan	0.213	0.000#	100.0#	0#	-47.81#
130	A2	14b(H),17b(H)-20S-Cholestan	0.213	0.000#	100.0#	0#	-47.91#
131	A2	14b,17b-20R-Methylcholestan	0.213	0.000#	100.0#	0#	-49.17#
132	A2	14b,17b-20S-Methylcholestan	0.213	0.000#	100.0#	0#	-49.26#
133	A2	14b(H),17b(H)-20R-Ethylchol	0.213	0.000#	100.0#	0#	-50.37#
134	A2	14b(H),17b(H)-20S-Ethylchol	0.213	0.000#	100.0#	0#	-50.41#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28208.D
Acq On : 10 Feb 2006 11:16 pm
Operator : AC
Sample : C2021001
Misc : std
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 13 06:52:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

MS 2/13/06

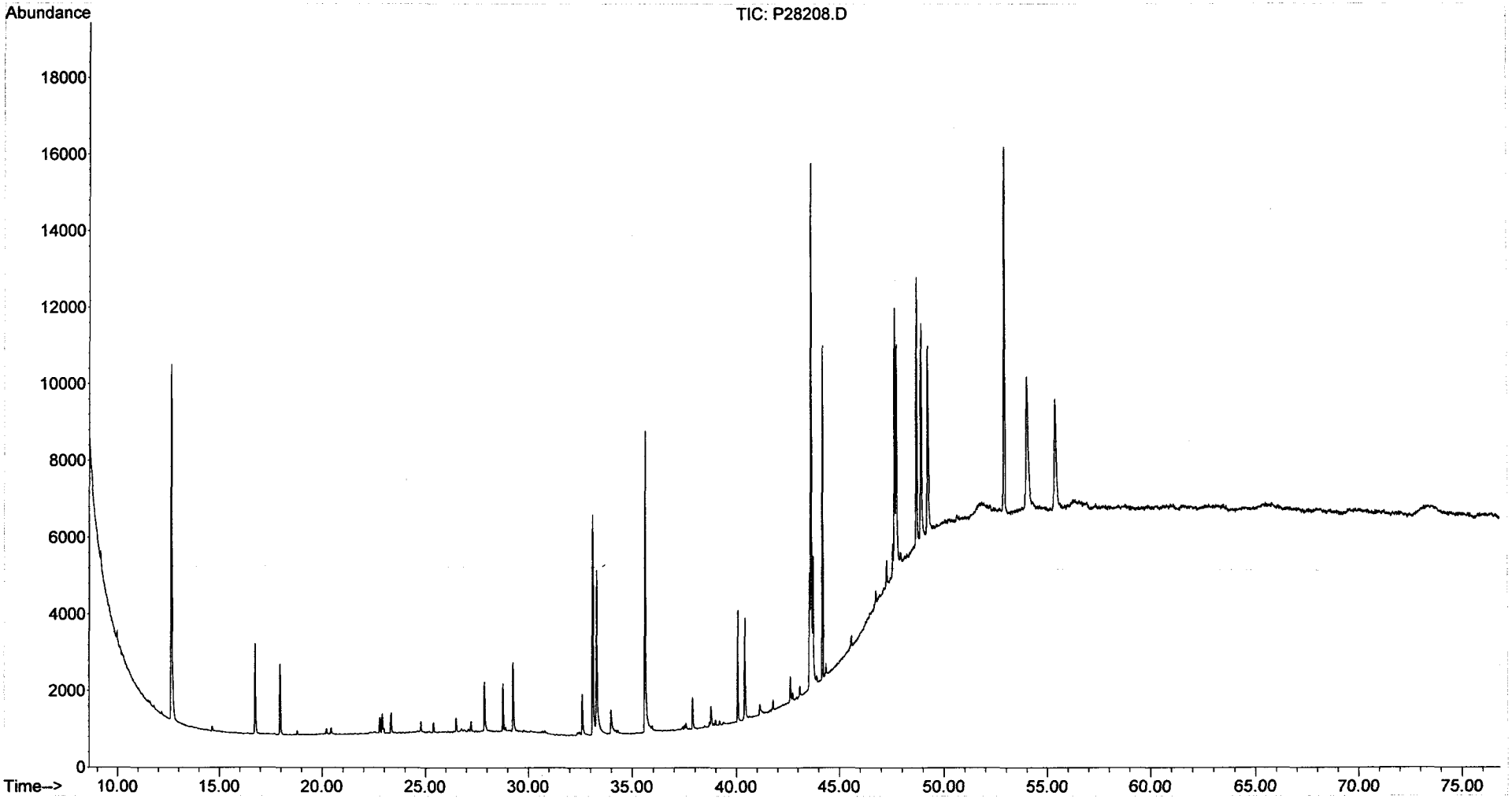
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.63	240	40572	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
117) 5B(H)Cholane - Surr	44.20	217	9798	567.85	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	56.79%	
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.93	191	22719	567.29	ng/mL	100
84) Hopane (T19)	52.93	191	22719	567.29	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28208.D
Acq On : 10 Feb 2006 11:16 pm
Operator : AC
Sample : C2021001
Misc : std
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 13 06:52:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28219.D
Acq On : 11 Feb 2006 4:43 pm
Operator : AC
Sample : C2021002
Misc : 1X
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Feb 13 06:53:35 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

MS 2/13/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev Area	% Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	0# -30.25#
2	t	Decalin	0.000	0.000#	0.0	0# -18.29#
3	A1	trans-Decalin	0.000	0.000#	0.0	0# -18.29#
4	t	cis-Decalin	0.000	0.000#	0.0	0# -19.72#
5	A2	C1-Decalins	0.000	0.000#	0.0	0# -19.82#
6	A2	C2-Decalins	0.000	0.000#	0.0	0# -21.94#
7	A2	C3-Decalins	0.000	0.000#	0.0	0# -24.86#
8	A2	C4-Decalins	0.000	0.000#	0.0	0# -28.16#
9	A1	Naphthalene	0.000	0.000#	0.0	0# -22.05#
10	A2	C1-Naphthalenes	0.000	0.000#	0.0	0# -25.27#
11	A2	C2-Naphthalenes	0.000	0.000#	0.0	0# -28.76#
12	A2	C3-Naphthalenes	0.000	0.000#	0.0	0# -32.90#
13	A2	C4-Naphthalenes	0.000	0.000#	0.0	0# -36.23#
14	s	2-Methylnaphthalene-d10	0.000	0.000#	0.0	0# -25.12#
15	t	2-Methylnaphthalene	0.000	0.000#	0.0	0# -25.25#
16	t	1-Methylnaphthalene	0.000	0.000#	0.0	0# -25.76#
17	A1	Benzothiophene	0.000	0.000#	0.0	0# -22.31#
18	A2	C1-Benzo(b)thiophenes	0.000	0.000#	0.0	0# -24.80#
19	A2	C2-Benzo(b)thiophenes	0.000	0.000#	0.0	0# -28.88#
20	A2	C3-Benzo(b)thiophenes	0.000	0.000#	0.0	0# -31.66#
21	A2	C4-Benzo(b)thiophenes	0.000	0.000#	0.0	0# -33.76#
22	t	Biphenyl	0.000	0.000#	0.0	0# -27.52#
23	t	2,6-Dimethylnaphthalene	0.000	0.000#	0.0	0# -28.23#
24	t	Dibenzofuran	0.000	0.000#	0.0	0# -31.16#
25	t	Acenaphthylene	0.000	0.000#	0.0	0# -29.50#
26	t	Acenaphthene	0.000	0.000#	0.0	0# -30.39#
27	t	2,3,5-Trimethylnaphthalene	0.000	0.000#	0.0	0# -32.26#
28	A1	Fluorene	0.000	0.000#	0.0	0# -32.78#
29	A2	C1-Fluorenes	0.000	0.000#	0.0	0# -35.62#
30	A2	C2-Fluorenes	0.000	0.000#	0.0	0# -38.24#
31	A2	C3-Fluorenes	0.000	0.000#	0.0	0# -40.44#
32	A1	Dibenzothiophene	0.000	0.000#	0.0	0# -36.72#
33	A2	OTP	0.000	0.000#	0.0	0# -39.42#
34	A2	C1-Dibenzothiophenes	0.000	0.000#	0.0	0# -38.85#
35	A2	C2-Dibenzothiophenes	0.000	0.000#	0.0	0# -41.30#
36	A2	C3-Dibenzothiophenes	0.000	0.000#	0.0	0# -43.04#
37	A2	C4-Dibenzothiophenes	0.000	0.000#	0.0	0# -45.74#
38	A1	Phenanthrene	0.000	0.000#	0.0	0# -37.32#
39	A2	C1-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0# -40.33#
40	A2	C2-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0# -42.64#
41	A2	5AA IS BKGD	0.000	0.000#	0.0	0# -42.12#
42	A2	C3-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0# -46.07#
43	A2	C4-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0# -45.69#
44	A2	Retene	0.000	0.000#	0.0	0# -45.69#
45	t	Anthracene	0.000	0.000#	0.0	0# -37.53#
46	t	Carbazole	0.000	0.000#	0.0	0# -50.34#
47	t	1-Methylphenanthrene	0.000	0.000#	0.0	0# -40.30#
48	A1	Fluoranthene	0.000	0.000#	0.0	0# -42.99#
49	A2	Benzo(b)fluorene	0.000	0.000#	0.0	0# -46.01#
50	s	Pyrene-d10	0.000	0.000#	0.0	0# -43.94#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28219.D
Acq On : 11 Feb 2006 4:43 pm
Operator : AC
Sample : C2021002
Misc : 1X
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Feb 13 06:53:35 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A1	Pyrene	0.000	0.000#	0.0	0#	-44.03#
52	A2	C1-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-45.71#
53	A2	C2-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-48.25#
54	A2	C3-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-50.28#
55	A2	C4-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-51.91#
56	A1	Naphthobenzothiophene	0.000	0.000#	0.0	0#	-48.62#
57	A2	Naphthobenzothiophene-2,1-D	0.000	0.000#	0.0	0#	-48.62#
58	A2	Naphthobenzothiophene-1,2-D	0.000	0.000#	0.0	0#	-49.05#
59	A2	Naphthobenzothiophene-2,3-D	0.000	0.000#	0.0	0#	-49.40#
60	A2	C1-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-51.13#
61	A2	C2-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-52.76#
62	A2	C3-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-54.61#
63	A2	C4-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-55.82#
64	i	Chrysene-d12	1.000	1.000	0.0	149	0.00
65	t	Benz[a]anthracene	0.000	0.000#	0.0	0#	-43.60#
66	t	Chrysene	0.000	0.000#	0.0	0#	-43.76#
67	A1	Chrysene/Triphenylene	0.000	0.000#	0.0	0#	-43.76#
68	A2	C1-Chrysenes	0.000	0.000#	0.0	0#	-45.88#
69	A2	C2-Chrysenes	0.000	0.000#	0.0	0#	-47.50#
70	A2	BBF-d12 Surr BKGD	0.000	0.000#	0.0	0#	-47.74#
71	A2	C3-Chrysenes	0.000	0.000#	0.0	0#	-50.07#
72	A2	C4-Chrysenes	0.000	0.000#	0.0	0#	-49.74#
73	s	Benzo[b]fluoranthene-d12	0.000	0.000#	0.0	0#	-47.74#
74	t	Benzo[b]fluoranthene	0.000	0.000#	0.0	0#	-47.81#
75	A1	Benzo[k]fluoranthene	0.000	0.000#	0.0	0#	-47.90#
76	A2	Benzo[a]fluoranthene	0.000	0.000#	0.0	0#	-48.38#
77	t	Benzo[e]pyrene	0.000	0.000#	0.0	0#	-48.78#
78	t	Benzo[a]pyrene	0.000	0.000#	0.0	0#	-48.95#
79	t	Perylene	0.000	0.000#	0.0	0#	-49.25#
80	t	Indeno[1,2,3-cd]pyrene	0.000	0.000#	0.0	0#	-53.26#
81	t	Dibenz[a,h]anthracene	0.000	0.000#	0.0	0#	-53.33#
82	t	Benzo[g,h,i]perylene	0.000	0.000#	0.0	0#	-54.38#
83	A1	17a(H),21B(H)-hopane - C30H	0.494	0.532	-7.7	185	-0.02
84	A2	Hopane (T19)	0.494	0.532	-7.7	185	-0.02
85	A2	C23 Tricyclic Terpane (T4)	0.494	0.000#	100.0#	0#	-41.22#
86	A2	C24 Tricyclic Terpane (T5)	0.494	0.000#	100.0#	0#	-41.94#
87	A2	C25 Tricyclic Terpane (T6)	0.494	0.000#	100.0#	0#	-43.43#
88	A2	C24 Tetracyclic Terpane (T6	0.494	0.000#	100.0#	0#	-44.77#
89	A2	C26 Tricyclic Terpane-22S (	0.494	0.000#	100.0#	0#	-44.49#
90	A2	C26 Tricyclic Terpane-22R (	0.494	0.000#	100.0#	0#	-44.59#
91	A2	C28 Tricyclic Terpane-22S (	0.494	0.000#	100.0#	0#	-46.87#
92	A2	C28 Tricyclic Terpane-22R (	0.494	0.000#	100.0#	0#	-47.04#
93	A2	C29 Tricyclic Terpane-22S (	0.494	0.000#	100.0#	0#	-47.58#
94	A2	C29 Tricyclic Terpane-22R (	0.494	0.000#	100.0#	0#	-47.78#
95	A2	18a-22,29,30-Trisnorneohopa	0.494	0.000#	100.0#	0#	-48.97#
96	A2	C30 Tricyclic Terpane-22S	0.494	0.000#	100.0#	0#	-49.05#
97	A2	C30 Tricyclic Terpane-22R	0.494	0.000#	100.0#	0#	-49.30#
98	A2	17a(H)-22,29,30-Trisnorhopa	0.494	0.000#	100.0#	0#	-49.55#
99	A2	17a/b,21b/a 28,30-Bisnorhop	0.494	0.000#	100.0#	0#	-50.79#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28219.D
Acq On : 11 Feb 2006 4:43 pm
Operator : AC
Sample : C2021002
Misc : 1X
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Feb 13 06:53:35 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	17a(H),21b(H)-25-Norhopane	0.494	0.000#	100.0#	0#	-50.56#
101	A2	30-Norhopane (T15)	0.494	0.000#	100.0#	0#	-51.49#
102	A2	18a(H)-30-Norneohopane-C29T	0.494	0.000#	100.0#	0#	-51.60#
103	A2	17a(H)-Diahopane (X)	0.494	0.000#	100.0#	0#	-51.73#
104	A2	30-Normoretane (T17)	0.494	0.000#	100.0#	0#	-52.32#
105	A2	18a(H)&18b(H)-Oleananes (T1	0.494	0.000#	100.0#	0#	-52.76#
106	A2	Moretane (T20)	0.494	0.000#	100.0#	0#	-53.66#
107	A2	30-Homohopane-22S (T21)	0.494	0.000#	100.0#	0#	-54.83#
108	A2	30-Homohopane-22R (T22)	0.494	0.000#	100.0#	0#	-55.07#
109	A2	30,31-Bishomohopane-22S (T2	0.494	0.000#	100.0#	0#	-56.48#
110	A2	30,31-Bishomohopane-22R (T2	0.494	0.000#	100.0#	0#	-56.89#
111	A2	30,31-Trishomohopane-22S (T	0.494	0.000#	100.0#	0#	-58.74#
112	A2	30,31-Trishomohopane-22R (T	0.494	0.000#	100.0#	0#	-59.40#
113	A2	Tetrakishomohopane-22S (T32	0.494	0.000#	100.0#	0#	-61.55#
114	A2	Tetrakishomohopane-22R (T33	0.494	0.000#	100.0#	0#	-62.50#
115	A2	Pentakishomohopane-22S (T34	0.494	0.000#	100.0#	0#	-64.90#
116	A2	Pentakishomohopane-22R (T35	0.494	0.000#	100.0#	0#	-66.28#
117	SA1	5B(H)Cholane - Surr	0.213	0.245	-15.0	177	0.00
118	A2	13b(H),17a(H)-20S-Diacholes	0.213	0.000#	100.0#	0#	-45.71#
119	A2	13b(H),17a(H)-20R-Diacholes	0.213	0.000#	100.0#	0#	-46.13#
120	A2	13b,17a-20S-Methyldiacholes	0.213	0.000#	100.0#	0#	-46.83#
121	A2	14a(H),17a(H)-20S-Cholestan	0.213	0.000#	100.0#	0#	-47.72#
122	A2	14a(H),17a(H)-20R-Cholestan	0.213	0.000#	100.0#	0#	-48.26#
123	A2	13b,17a-20R-Ethyldiacholest	0.213	0.000#	100.0#	0#	-48.55#
124	A2	13a,17b-20S-Ethyldiacholest	0.213	0.000#	100.0#	0#	-48.82#
125	A2	14a,17a-20S-Methylcholestan	0.213	0.000#	100.0#	0#	-48.99#
126	A2	14a,17a-20R-Methylcholestan	0.213	0.000#	100.0#	0#	-49.75#
127	A2	14a(H),17a(H)-20S-Ethylchol	0.213	0.000#	100.0#	0#	-50.12#
128	A2	14a(H),17a(H)-20R-Ethylchol	0.213	0.000#	100.0#	0#	-51.06#
129	A2	14b(H),17b(H)-20R-Cholestan	0.213	0.000#	100.0#	0#	-47.81#
130	A2	14b(H),17b(H)-20S-Cholestan	0.213	0.000#	100.0#	0#	-47.91#
131	A2	14b,17b-20R-Methylcholestan	0.213	0.000#	100.0#	0#	-49.17#
132	A2	14b,17b-20S-Methylcholestan	0.213	0.000#	100.0#	0#	-49.26#
133	A2	14b(H),17b(H)-20R-Ethylchol	0.213	0.000#	100.0#	0#	-50.37#
134	A2	14b(H),17b(H)-20S-Ethylchol	0.213	0.000#	100.0#	0#	-50.41#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28219.D
Acq On : 11 Feb 2006 4:43 pm
Operator : AC
Sample : C2021002
Misc : 1X
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Feb 13 06:53:35 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration

MS 2/13/06

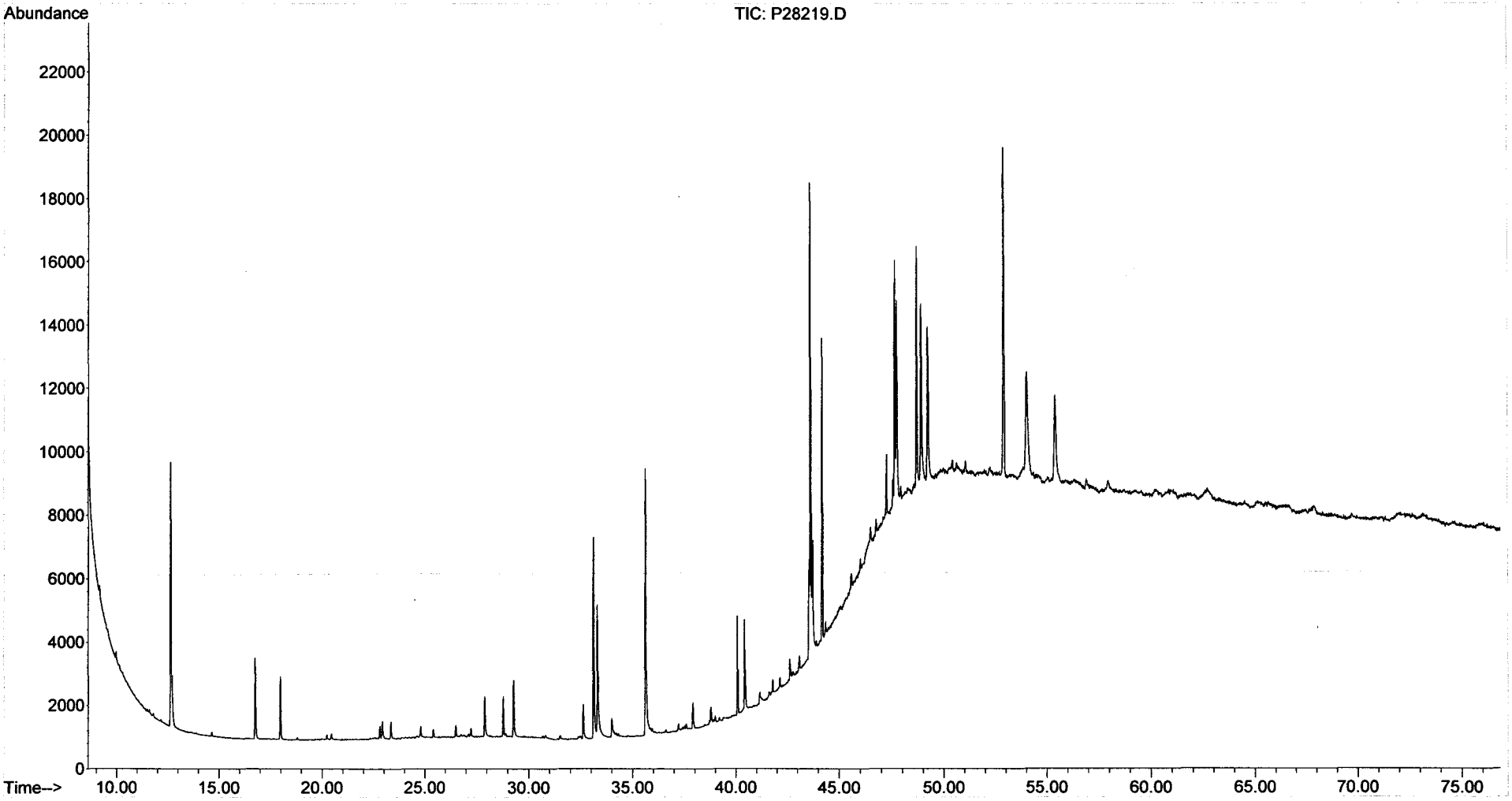
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	43.63	240	46311	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	0.00%#	
117) 5B(H)Cholane - Surr	44.20	217	11333	575.42	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	=	57.54%	
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	52.92	191	24617	538.51	ng/mL	99
84) Hopane (T19)	52.92	191	24617	538.51	ng/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH2\FEBRUARY06\FEB09\
Data File : P28219.D
Acq On : 11 Feb 2006 4:43 pm
Operator : AC
Sample : C2021002
Misc : 1X
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Feb 13 06:53:35 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\FEB06\BIO20209.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Fri Feb 10 06:42:13 2006
Response via : Initial Calibration



Form VIII
Internal Standard Summary
Alkylated Polynuclear Aromatic Hydrocarbons

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1013104**
Case: **N/A** SDG: **N/A**

		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**
Standard:		40215	26.53	63448	42.99
Upper Limit:		80430	27.03	126896	43.49
Lower Limit:		20108	26.03	31724	42.49
Client ID	**Lab ID**				
GC-SED-46C (5-5.5)	0601070-01	43726	26.53	77264	42.99
GC-SED-45C (1-1.5)	0601070-02	47470	26.53	78957	42.99
GC-SED-55 (1.5-2.5)	0601070-03E	43288	26.53	72971	42.99
GC-SED-49 (10-11)	0601070-05	45616	26.53	75300	42.99
GC-SED-78B (2.5-5)	0601070-07E	44628	26.53	73845	42.99
CCV	C1020301	36494	26.53	55601	42.99

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form VIII
Internal Standard Summary
Alkylated Polynuclear Aromatic Hydrocarbons

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1020302A**
Case: **N/A** SDG: **N/A**

		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**
Standard:		42579	26.52	71373	42.98
Upper Limit:		85158	27.02	142746	43.48
Lower Limit:		21290	26.02	35686	42.48
Client ID	**Lab ID**				
GC-SED-46C (5-5.5)	0601070-01E	48516	26.52	83693	42.98
GC-SED-45C (1-1.5)	0601070-02E	50224	26.52	85087	42.98
GC-SED-49 (10-11)	0601070-05E	50284	26.52	85793	42.98
CCV	C1020303	37368	26.52	61319	42.98

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

02/14/06 21:09

Form VIII
Internal Standard Summary
Alkylated Polynuclear Aromatic Hydrocarbons

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1020303**
Case: **N/A** SDG: **N/A**

		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**
Standard:		37368	26.52	61319	42.98
Upper Limit:		74736	27.02	122638	43.48
Lower Limit:		18684	26.02	30660	42.48
Client ID	**Lab ID**				
GC-SED-55 (1.5-2.5)	0601070-03	49956	26.52	95864	43.00
GC-SED-78B (2.5-5)	0601070-07	46410	26.52	87189	43.00
GC-SED-76C (2.5-3.4)	0601070-08	47184	26.52	87716	43.00
GC-SED-75C (0-0.7)	0601070-09	48874	26.52	91152	43.00
GC-SED-75C (0-0.7)	0601070-09 D	46142	26.53	84042	43.00
CCV	C1020304	37690	26.52	63867	42.98

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form VIII
Internal Standard Summary
Alkylated Polynuclear Aromatic Hydrocarbons

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1020601**
Case: **N/A** SDG: **N/A**

		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**
Standard:		35823	26.52	57210	42.98
Upper Limit:		71646	27.02	114420	43.48
Lower Limit:		17912	26.02	28605	42.48
Client ID	**Lab ID**				
Blank	SS012606B19	37031	26.52	60343	42.98
LCS	SS012606LCS05	37214	26.52	61219	42.98
LCSD	SS012606LCSD05	36764	26.52	60521	42.98
CCV	C1020602	34685	26.52	54139	42.98

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

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Form VIII
Internal Standard Summary
Alkylated Polynuclear Aromatic Hydrocarbons

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1020801**
Case: **N/A** SDG: **N/A**

		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**
Standard:		57912	26.51	96106	42.95
Upper Limit:		115824	27.01	192212	43.45
Lower Limit:		28956	26.01	48053	42.45
Client ID	**Lab ID**				
GC-SED-47 (1.5-2.5)	0601070-04E	42778	26.49	72949	42.95
GC-SED-48 (5-5.8)	0601070-06E	43427	26.49	73461	42.95
GC-SED-47 (1.5-2.5)	0601070-04	44035	26.49	78362	42.95
GC-SED-48 (5-5.8)	0601070-06	43952	26.49	78936	42.95
CCV	C1020802	40013	26.49	66569	42.94

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

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Form VIII
Internal Standard Summary
Alkylated Polynuclear Aromatic Hydrocarbons

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1020804**
Case: **N/A** SDG: **N/A**

		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**
Standard:		34818	26.49	59032	42.94
Upper Limit:		69636	26.99	118064	43.44
Lower Limit:		17409	25.99	29516	42.44
Client ID	**Lab ID**				
Blank	SS020606B06	31922	26.49	53578	42.94
LCSD	SS020606LCSD05	36313	26.49	63017	42.94
CCV	C1020805	35120	26.49	59073	42.94

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form VIII
Internal Standard Summary
Alkylated Polynuclear Aromatic Hydrocarbons

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1021301**
Case: **N/A** SDG: **N/A**

		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**
Standard:		31259	26.49	50447	42.94
Upper Limit:		62518	26.99	100894	43.44
Lower Limit:		15630	25.99	25224	42.44
Client ID	**Lab ID**				
LCS	SS020606LCS04	34448	26.49	56624	42.94
CCV	C1021303	51803	26.49	82228	42.94

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form VIII
Internal Standard Summary
Steranes and Triterpanes

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **C3012612**

		Chrysene-d12	
		Area	**RT**
Standard:		124579	43.37
Upper Limit:		249158	43.87
Lower Limit:		62290	42.87
Client ID	**Lab ID**		
Blank	SS012606B19	67101	43.47
GC-SED-46C (5-5.5)	0601070-01	88226	43.42
GC-SED-45C (1-1.5)	0601070-02	91408	43.42
GC-SED-55 (1.5-2.5)	0601070-03	104605	43.41
GC-SED-49 (10-11)	0601070-05	90901	43.42
GC-SED-78B (2.5-5)	0601070-07	94644	43.42
GC-SED-76C (2.5-3.4)	0601070-08	101979	43.42
GC-SED-75C (0-0.7)	0601070-09	103329	43.42
GC-SED-75C (0-0.7)	0601070-09 D	98416	43.42
CCV	C3012613	81704	43.39

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

02/14/06 21:33

Form VIII
Internal Standard Summary
Steranes and Triterpanes

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C2021001**
Case: **N/A** SDG: **N/A**

		Chrysene-d12	
		Area	**RT**
Standard:		40572	43.63
Upper Limit:		81144	44.13
Lower Limit:		20286	43.13
Client ID	**Lab ID**		
Blank	SS020606B06	40282	43.64
GC-SED-47 (1.5-2.5)	0601070-04	56260	43.64
GC-SED-48 (5-5.8)	0601070-06	57816	43.64
CCV	C2021002	46311	43.63

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

02/14/06 21:33

TOTAL PETROLEUM HYDROCARBON (TPH)

Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-46C (5-5.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-01**
Associated Blank: **SS012606B19**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/23/06	01/26/06	01/26/06	02/04/06	52.6	5.96	166.67	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**150000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	93	50-130
d50-Tetracosane	106	50-130

02/14/06 15:07

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17966.D
Signal(s) : FID2B.CH
Acq On : 04 Feb 2006 5:14 am
Operator : AC
Sample : 0601070-01-AFID
Misc : 1X
ALS Vial : 60 Sample Multiplier: 1

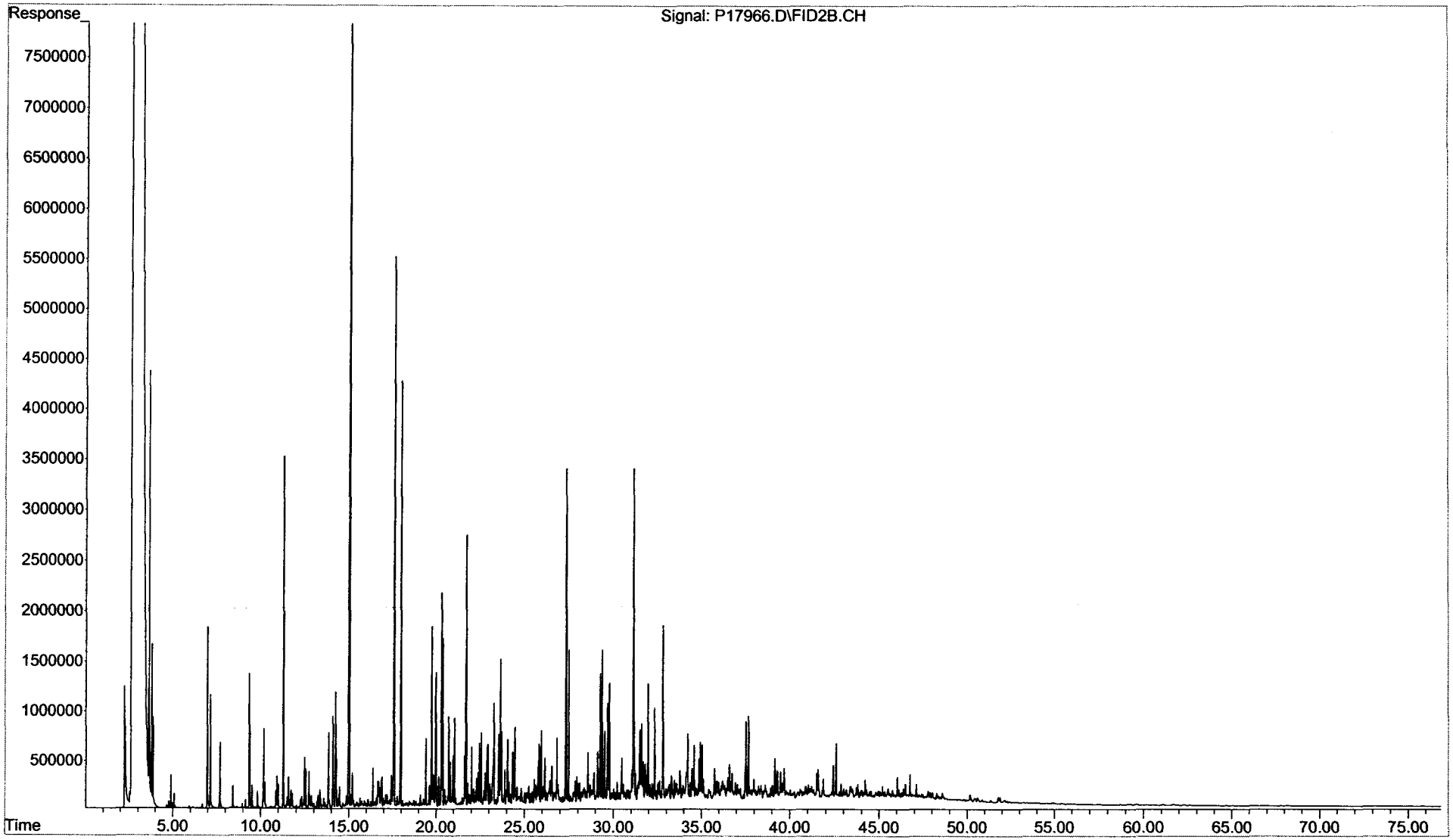
Integration File: SHCINT1.E
Quant Time: Feb 14 14:21:36 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Tue Feb 14 14:08:44 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.13	82398018	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.09	9964422	5.579 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	11.16%#
24) s d50-Tetracosane	35.74	10134075	6.331 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	12.66%#
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	5386346670	3264.311 ug/mL
44) h Total Resolved Hydrocarbon	40.94	2799507386	1696.597 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17966.D
Operator : AC
Acquired : 04 Feb 2006 5:14 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0601070-01-AFID
Misc Info : 1X
Vial Number: 60



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-45C (1-1.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-02**
Associated Blank: **SS012606B19**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/23/06	01/26/06	01/26/06	02/04/06	56.1	5.19	89.29	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**100000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	86	50-130
d50-Tetracosane	89	50-130

02/14/06 15:08

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17968.D
Signal(s) : FID2B.CH
Acq On : 04 Feb 2006 6:47 am
Operator : AC
Sample : 0601070-02-AFID
Misc : 1X
ALS Vial : 61 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Feb 14 14:23:42 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Tue Feb 14 14:08:44 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

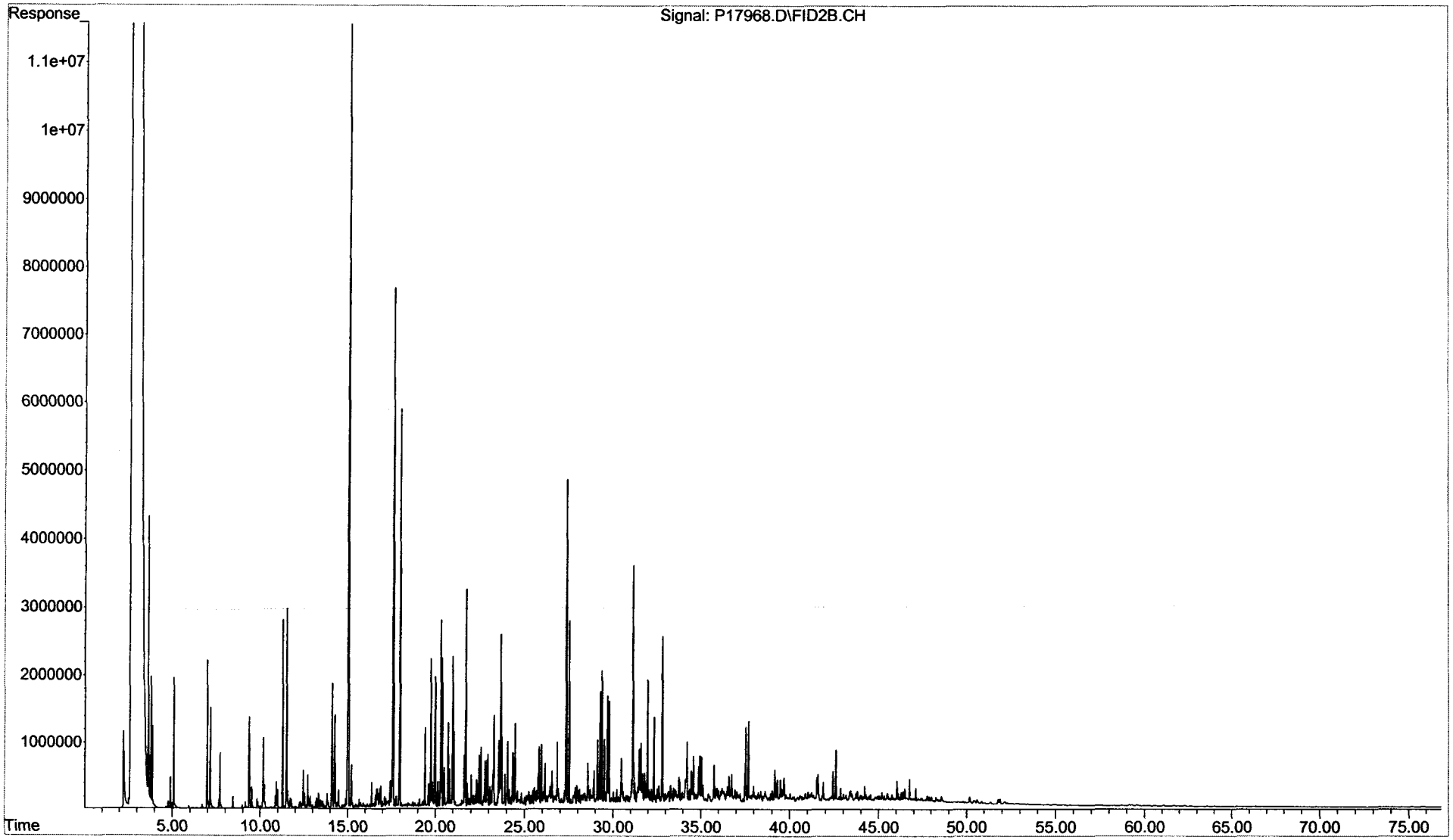
Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

2/14/06

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.14	89622301	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.10	18695749	9.624 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	19.25%#
24) s d50-Tetracosane	35.74	17392048	9.989 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	19.98%#
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	6754661017	3763.582 ug/mL
44) h Total Resolved Hydrocarbon	40.94	3912798667	2180.145 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17968.D
Operator : AC
Acquired : 04 Feb 2006 6:47 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0601070-02-AFID
Misc Info : 1X
Vial Number: 61



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-55 (1.5-2.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-03**
Associated Blank: **SS012606B19**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	01/26/06	02/04/06	43.7	10.67	17.54	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**11000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	74	50-130
d50-Tetracosane	69	50-130

02/14/06 15:08

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17970.D
Signal(s) : FID2B.CH
Acq On : 04 Feb 2006 8:20 am
Operator : AC
Sample : 0601070-03-AFID
Misc : 1X
ALS Vial : 62 Sample Multiplier: 1

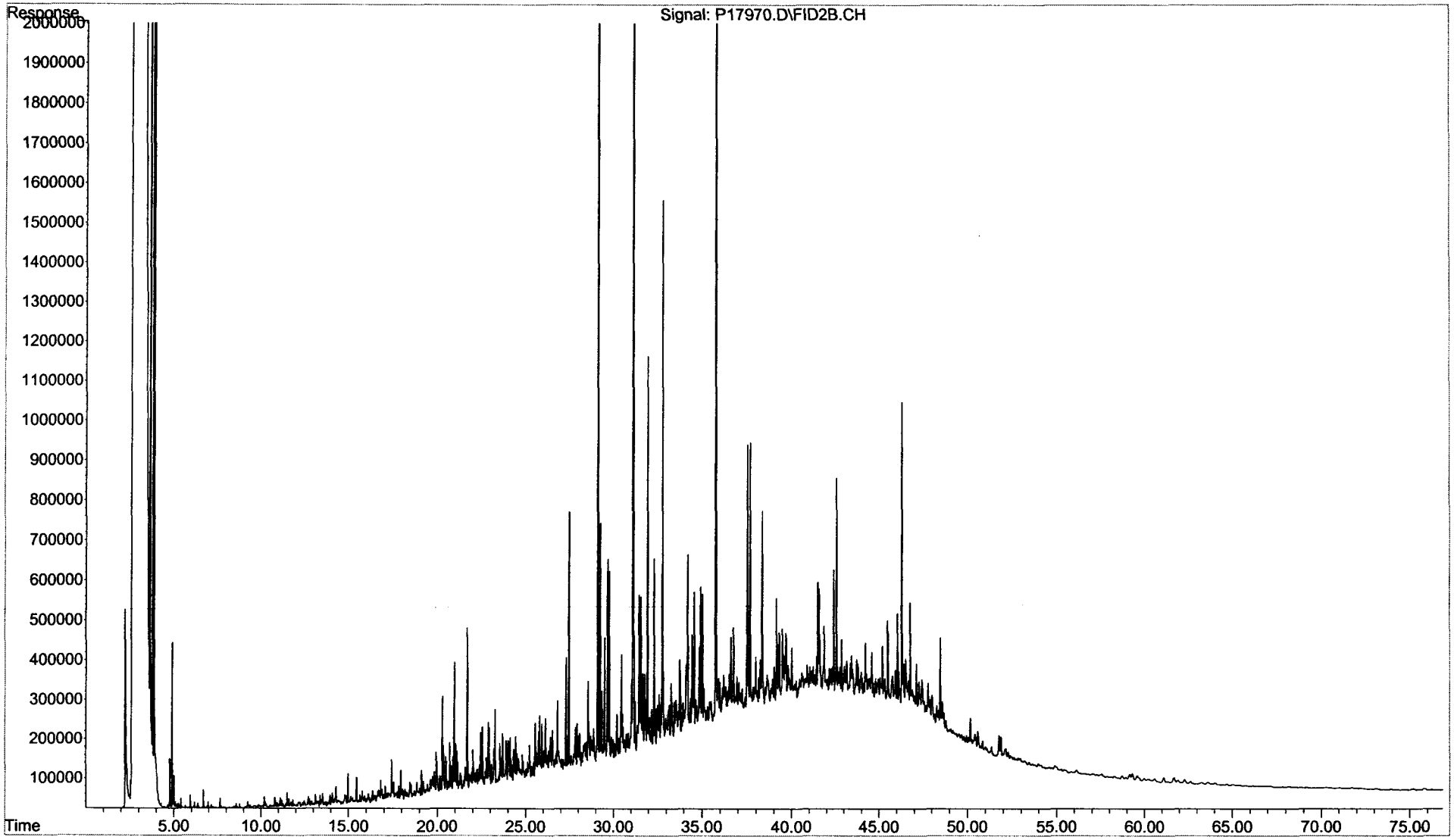
Integration File: SHCINT1.E
Quant Time: Feb 14 14:26:02 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Tue Feb 14 14:08:44 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.13	83820328	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.12	76242819	41.965 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	83.93%
24) s d50-Tetracosane	35.77	64352619	39.520 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	79.04%
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	5668567799	3377.054 ug/mL
44) h Total Resolved Hydrocarbon	40.94	1007223960	600.054 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17970.D
Operator : AC
Acquired : 04 Feb 2006 8:20 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0601070-03-AFID
Misc Info : 1X
Vial Number: 62



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-47 (1.5-2.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-04**
Associated Blank: **SS020606B06**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	02/06/06	02/11/06	53.9	5.08	116.67	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	140000

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	108	50-130
d50-Tetracosane	94	50-130

02/16/06 13:25

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08.SEC\
Data File : P18130.D
Signal(s) : FID2B.CH
Acq On : 11 Feb 2006 10:29 am
Operator : AC
Sample : 0601070-04-AFID
Misc : 1X
ALS Vial : 62 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Feb 14 13:48:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

2/14/06

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.06	62853882	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.03	12584476	9.237 ug/mLm
Spiked Amount 50.000 Range 50 - 130		Recovery =	18.47%#
24) s d50-Tetracosane	35.68	9832677	8.053 ug/mLm
Spiked Amount 50.000 Range 50 - 130		Recovery =	16.11%#
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	4463462916	3546.123 ug/mL
44) h Total Resolved Hydrocarbon	40.94	2478059110	1968.763 ug/L

Reject Conc 2nd 2/16/06

(f)=RT Delta > 1/2 Window (m)=manual int.

```
File        :O:\Forensics\Data\PAH1\February06\FEB08.SEC\P18130.D
Operator    : AC
Acquired    : 11 Feb 2006  10:29 am using AcqMethod FRNC1D.M
Instrument :   PAH-1
Sample Name: 0601070-04-AFID
Misc Info   : 1X
Vial Number: 62
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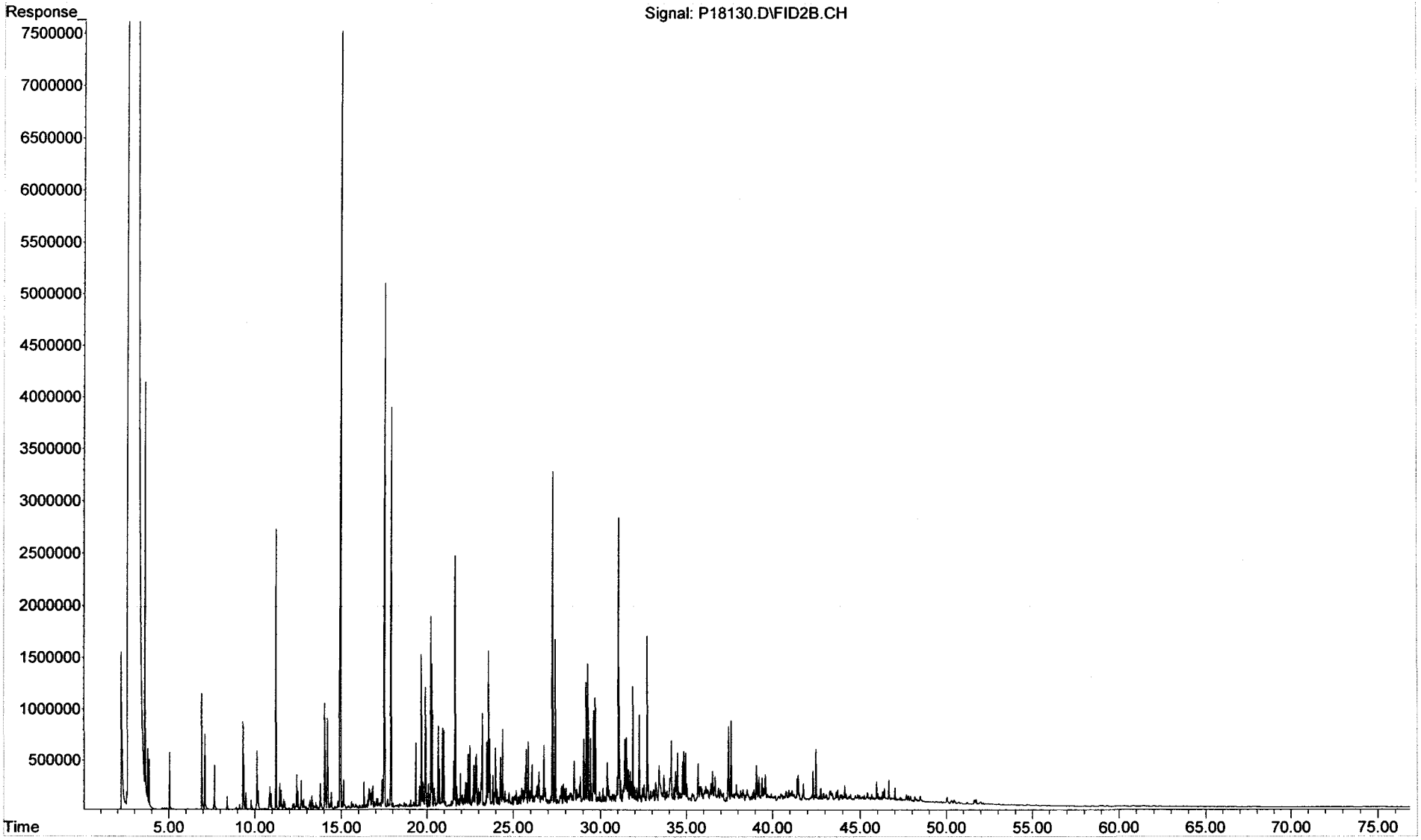


Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-49 (10-11)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-05**
Associated Blank: **SS012606B19**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	01/26/06	02/04/06	87.2	5.75	15.87	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**13000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	79	50-130
d50-Tetracosane	73	50-130

02/14/06 15:09

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17972.D
Signal(s) : FID2B.CH
Acq On : 04 Feb 2006 9:55 am
Operator : AC
Sample : 0601070-05-AFID
Misc : 1X
ALS Vial : 63 Sample Multiplier: 1

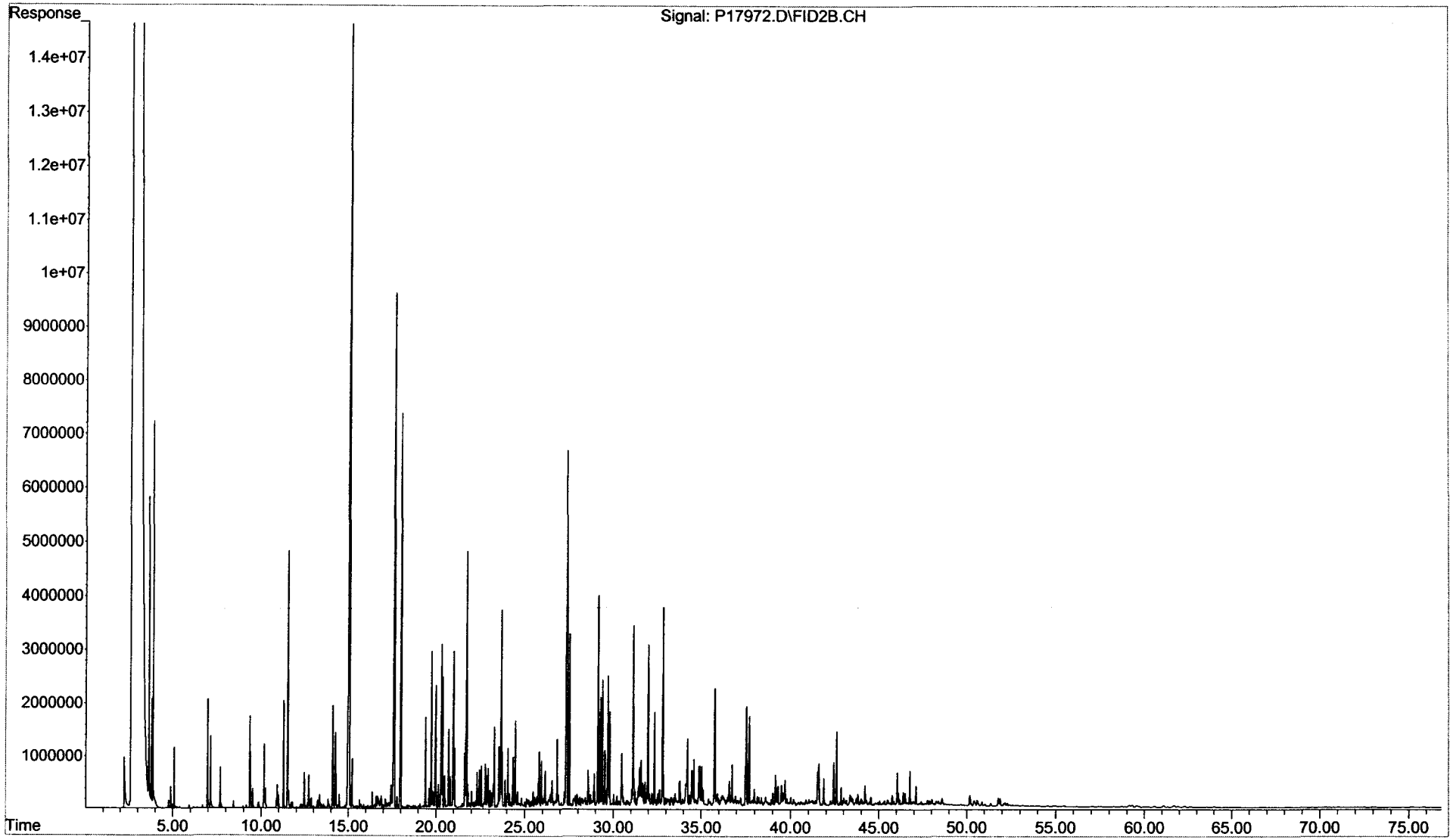
Integration File: SHCINT1.E
Quant Time: Feb 14 14:37:41 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Tue Feb 14 14:08:44 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.14	82868540	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.14	89191026	49.655 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	99.31%
24) s d50-Tetracosane	35.77	73955352	45.939 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	91.88%
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	7251225997	4369.540 ug/mL
44) h Total Resolved Hydrocarbon	40.94	4975855998	2998.417 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17972.D
Operator : AC
Acquired : 04 Feb 2006 9:55 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0601070-05-AFID
Misc Info : 1X
Vial Number: 63



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-48 (5-5.8)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-06**
Associated Blank: **SS020606B06**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/24/06	01/26/06	02/06/06	02/11/06	50.5	5.21	84	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**110000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	84	50-130
d50-Tetracosane	85	50-130

02/16/06 13:26

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08.SEC\
Data File : P18132.D
Signal(s) : FID2B.CH
Acq On : 11 Feb 2006 12:04 pm
Operator : AC
Sample : 0601070-06-AFID
Misc : 1X
ALS Vial : 63 Sample Multiplier: 1

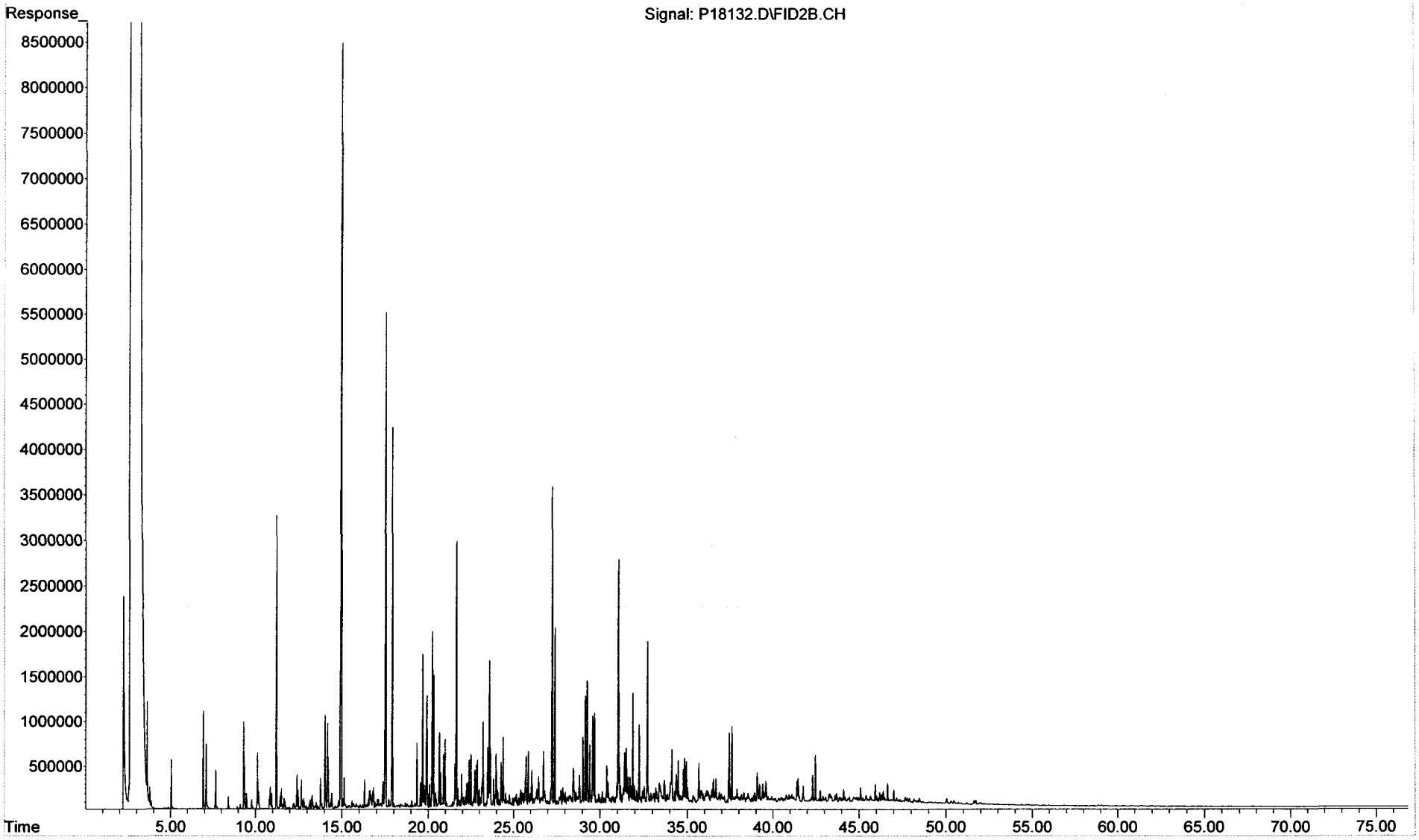
Integration File: SHCINT1.E
Quant Time: Feb 14 13:52:30 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.06	62403411	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.03	13504614	9.984 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	19.97%#
24) s d50-Tetracosane	35.68	12310646	10.155 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	20.31%#
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	4540812859	3633.618 ug/mL
44) h Total Resolved Hydrocarbon	40.94	2657393476	2126.481 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB08.SEC\P18132.D
Operator : AC
Acquired : 11 Feb 2006 12:04 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0601070-06-AFID
Misc Info : 1X
Vial Number: 63



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-78B (2.5-5)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-07**
Associated Blank: **SS012606B19**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/04/06	43.8	10.80	18.1	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**16000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	79	50-130
d50-Tetracosane	72	50-130

02/14/06 15:09

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17975A.D
Signal(s) : FID2B.CH
Acq On : 04 Feb 2006 12:35 pm
Operator : AC
Sample : 0601070-07-AFID
Misc : 1X RERUN
ALS Vial : 64 Sample Multiplier: 1

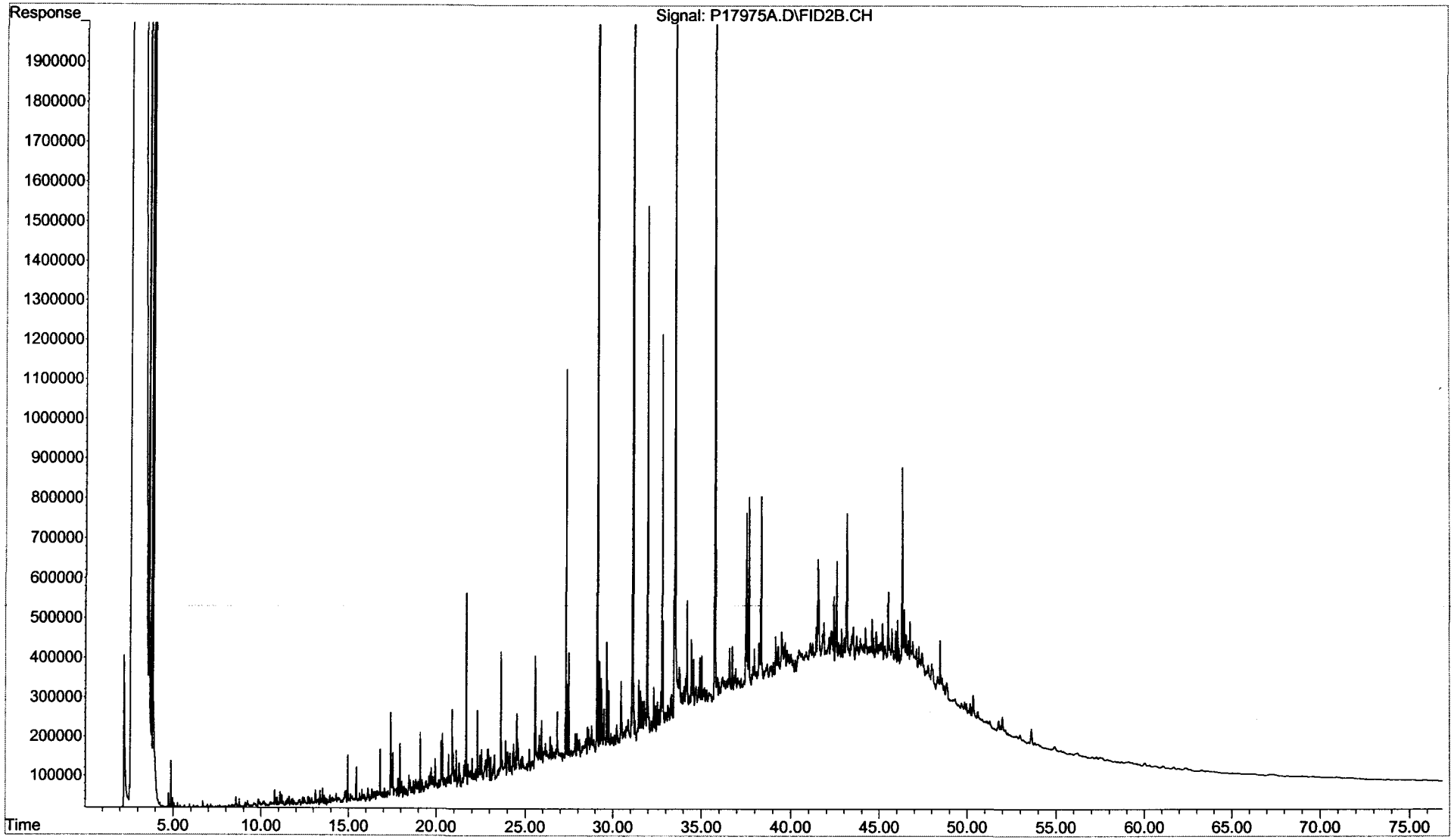
Integration File: SHCINT1.E
Quant Time: Feb 14 14:40:03 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Tue Feb 14 14:08:44 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.13	74708202	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.11	70556726	43.572 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	87.14%
24) s d50-Tetracosane	35.77	57968042	39.941 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	79.88%
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	6946871556	4643.388 ug/mL
44) h Total Resolved Hydrocarbon	40.94	847099773	566.214 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17975A.D
Operator : AC
Acquired : 04 Feb 2006 12:35 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0601070-07-AFID
Misc Info : 1X RERUN
Vial Number: 64



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-76C (2.5-3.4)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-08**
Associated Blank: **SS012606B19**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/04/06	44.3	10.52	16.81	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**11000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	75	50-130
d50-Tetracosane	69	50-130

02/14/06 15:09

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17976.D
Signal(s) : FID2B.CH
Acq On : 04 Feb 2006 5:21 pm
Operator : AC
Sample : 0601070-08-AFID
Misc : 1X
ALS Vial : 65 Sample Multiplier: 1

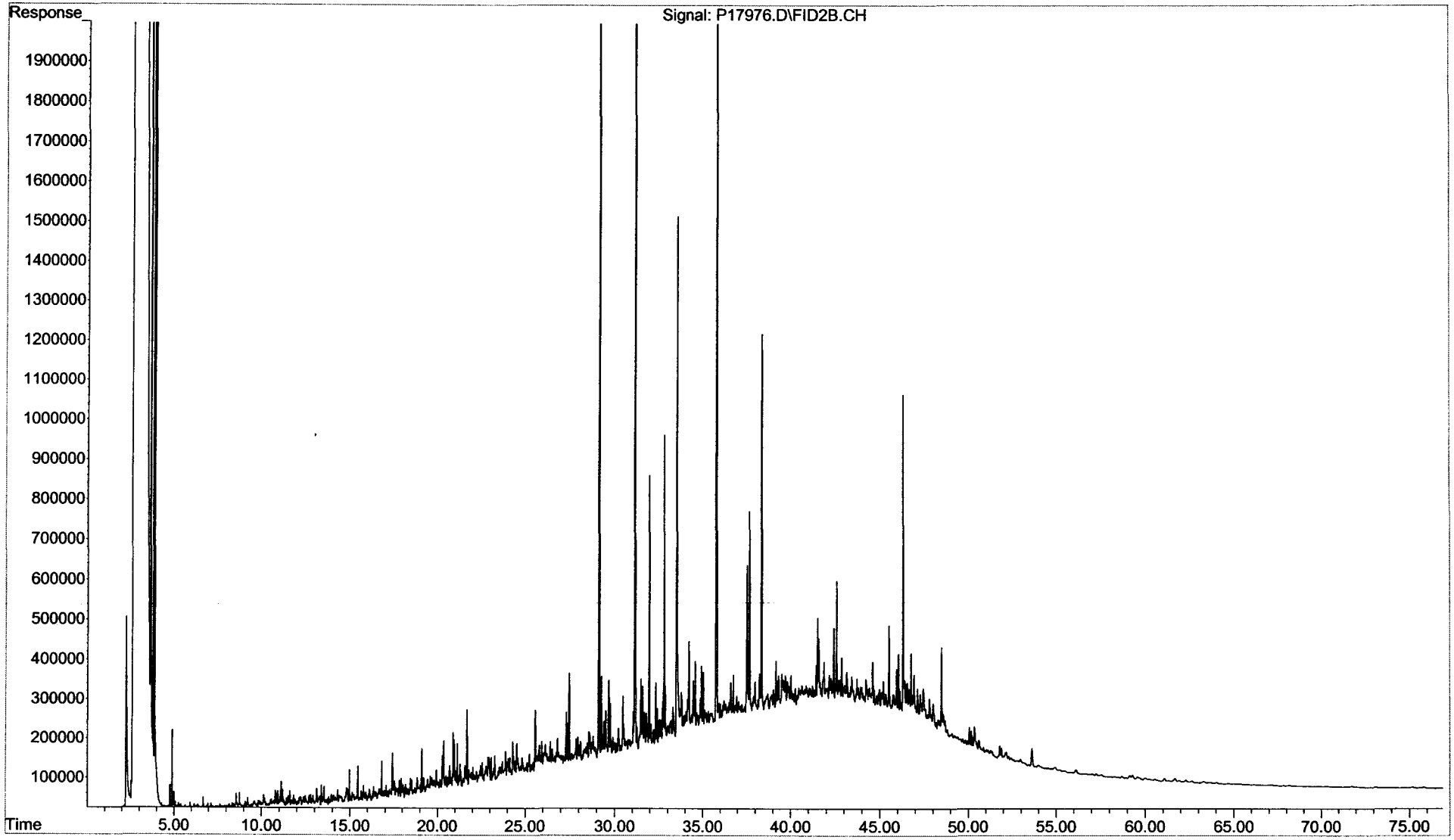
Integration File: SHCINT1.E
Quant Time: Feb 14 14:43:04 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Tue Feb 14 14:08:44 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.13	75054253	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.11	72749005	44.719 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	89.44%
24) s d50-Tetracosane	35.76	59855067	41.051 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	82.10%
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	5322460032	3541.205 ug/mL
44) h Total Resolved Hydrocarbon	40.94	707804651	470.925 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17976.D
Operator : AC
Acquired : 04 Feb 2006 5:21 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0601070-08-AFID
Misc Info : 1X
Vial Number: 65



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09**
Associated Blank: **SS012606B19**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/04/06	44.6	10.22	6.58	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	3300

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	72	50-130
d50-Tetracosane	66	50-130

02/14/06 15:09

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17978.D
Signal(s) : FID2B.CH
Acq On : 04 Feb 2006 6:55 pm
Operator : AC
Sample : 0601070-09-AFID
Misc : 1X
ALS Vial : 66 Sample Multiplier: 1

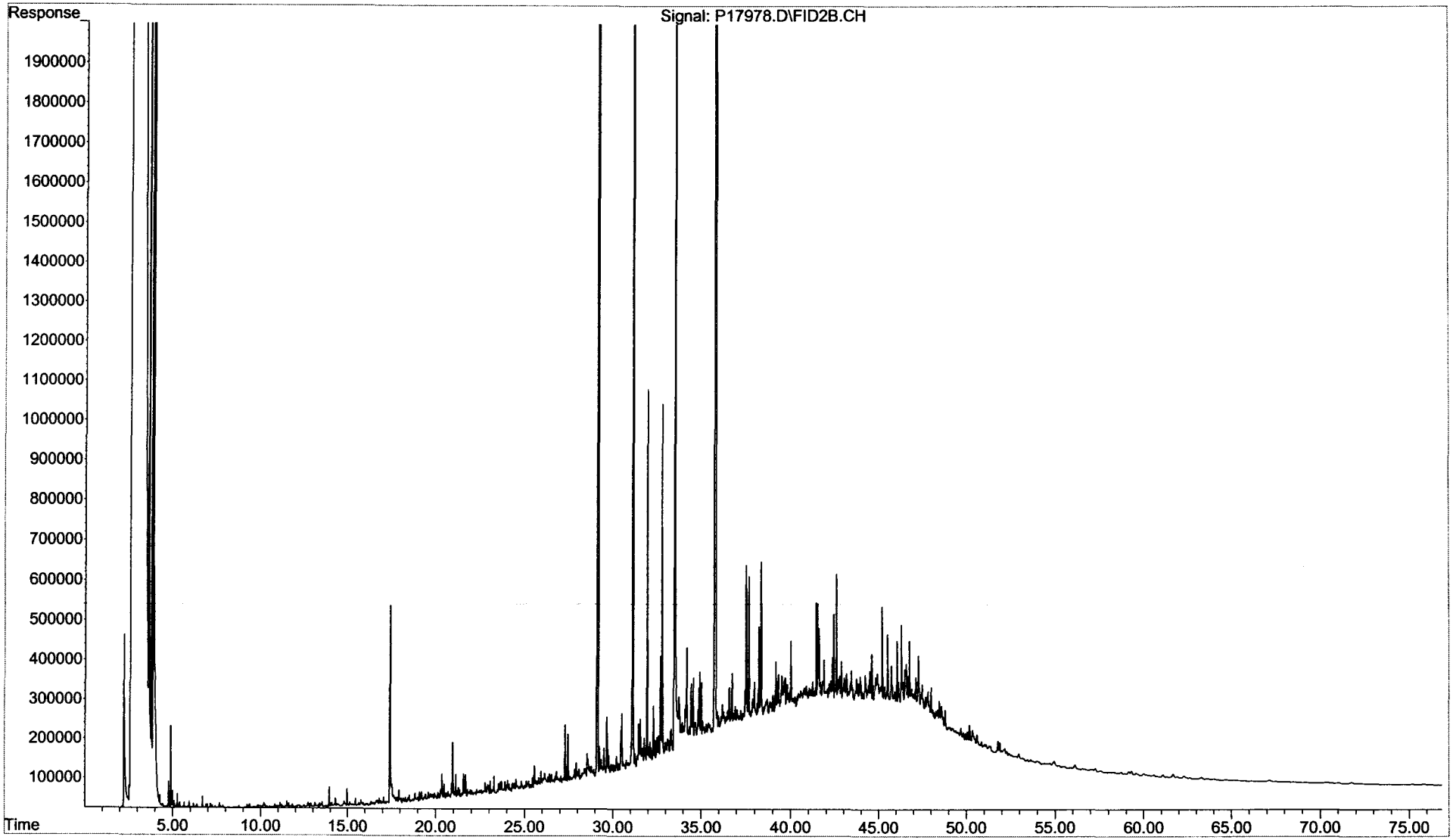
Integration File: SHCINT1.E
Quant Time: Feb 14 14:48:49 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Tue Feb 14 14:08:44 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.14	96396862	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.15	228472558	109.347 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery	= 218.69%#
24) s d50-Tetracosane	35.80	188617168	100.721 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery	= 201.44%#
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	5031650722	2606.523 ug/mL
44) h Total Resolved Hydrocarbon	40.94	620757844	321.568 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17978.D
Operator : AC
Acquired : 04 Feb 2006 6:55 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0601070-09-AFID
Misc Info : 1X
Vial Number: 66



Form I
Duplicate
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09 D**
Associated Blank: **SS012606B19**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/25/06	01/26/06	01/26/06	02/04/06	44.6	10.16	5.85	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**3400**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	73	50-130
d50-Tetracosane	67	50-130

02/14/06 15:09

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17980.D
Signal(s) : FID2B.CH
Acq On : 04 Feb 2006 8:30 pm
Operator : AC
Sample : 0601070-09D-AFID
Misc : 1X
ALS Vial : 67 Sample Multiplier: 1

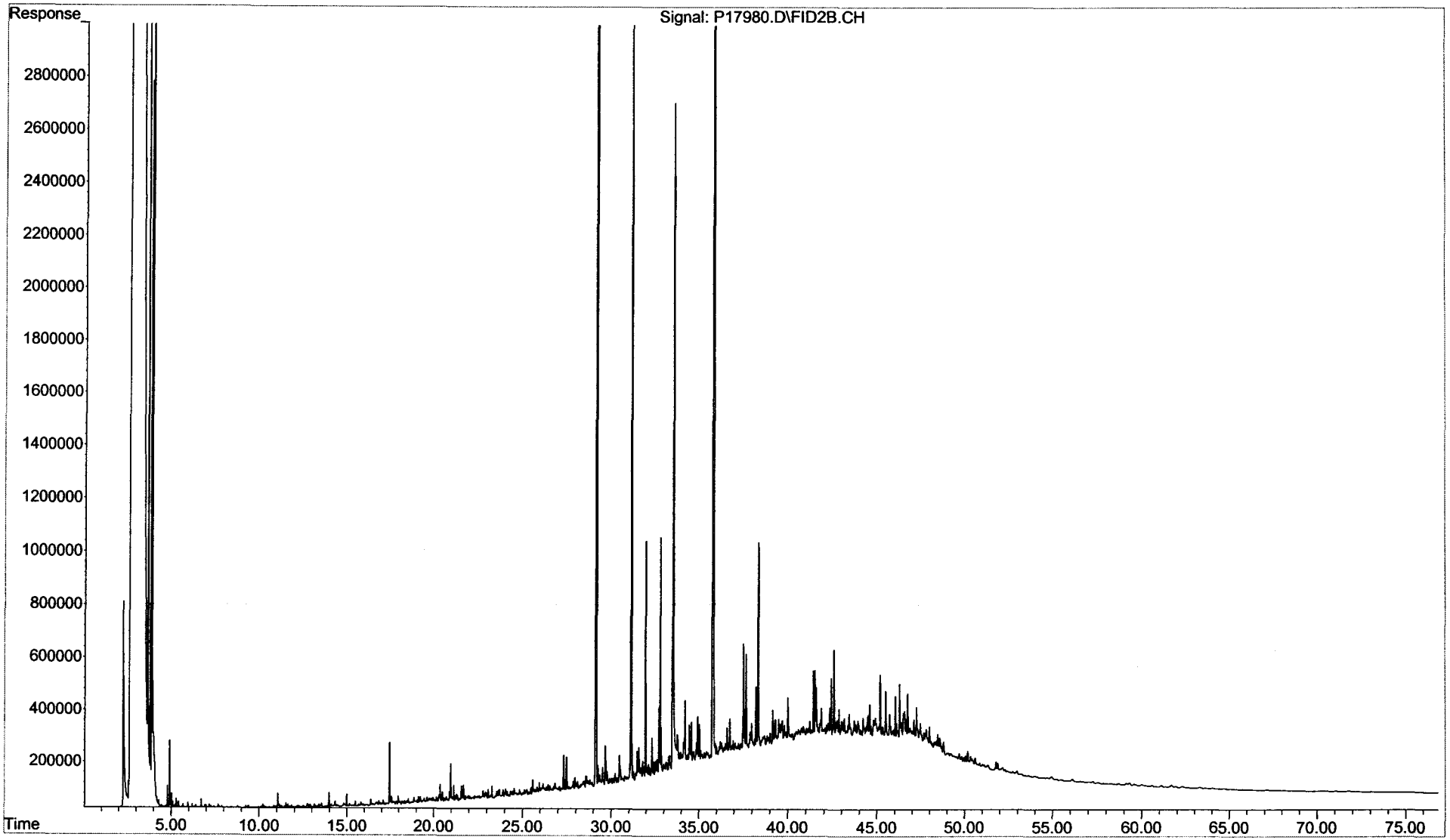
Integration File: SHCINT1.E
Quant Time: Feb 14 14:51:23 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Tue Feb 14 14:08:44 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.14	86854898	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.16	235721934	125.211 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery	= 250.42%#
24) s d50-Tetracosane	35.81	194165156	115.075 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery	= 230.15%#
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	5180049173	2978.198 ug/mL
44) h Total Resolved Hydrocarbon	40.94	638195923	366.922 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17980.D
Operator : AC
Acquired : 04 Feb 2006 8:30 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0601070-09D-AFID
Misc Info : 1X
Vial Number: 67



Duplicate
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-SED-75C (0-0.7)**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **0601070-09**
Associated Blank: **SS012606B19**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
01/25/06	01/26/06	01/26/06	44.6	AC

Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
Total Petroleum Hydrocarbons	3300	3400	3	30

N/A - Not Applicable

Surrogate	% Recovery		Acceptance Range (%)
ortho-Terphenyl	72	73	50-130
d50-Tetracosane	66	67	50-130

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

02/14/06 15:10

Form I
Total Saturated Hydrocarbons by GC/FID

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606B19**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	01/26/06	02/03/06	100	30.00	4	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	4.4 U

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	79	50-130
d50-Tetracosane	74	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/14/06 15:02

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17952.D
Signal(s) : FID2B.CH
Acq On : 03 Feb 2006 6:10 pm
Operator : AC
Sample : SS012606B19-AFID
Misc : 1X ETR0601070
ALS Vial : 53 Sample Multiplier: 1

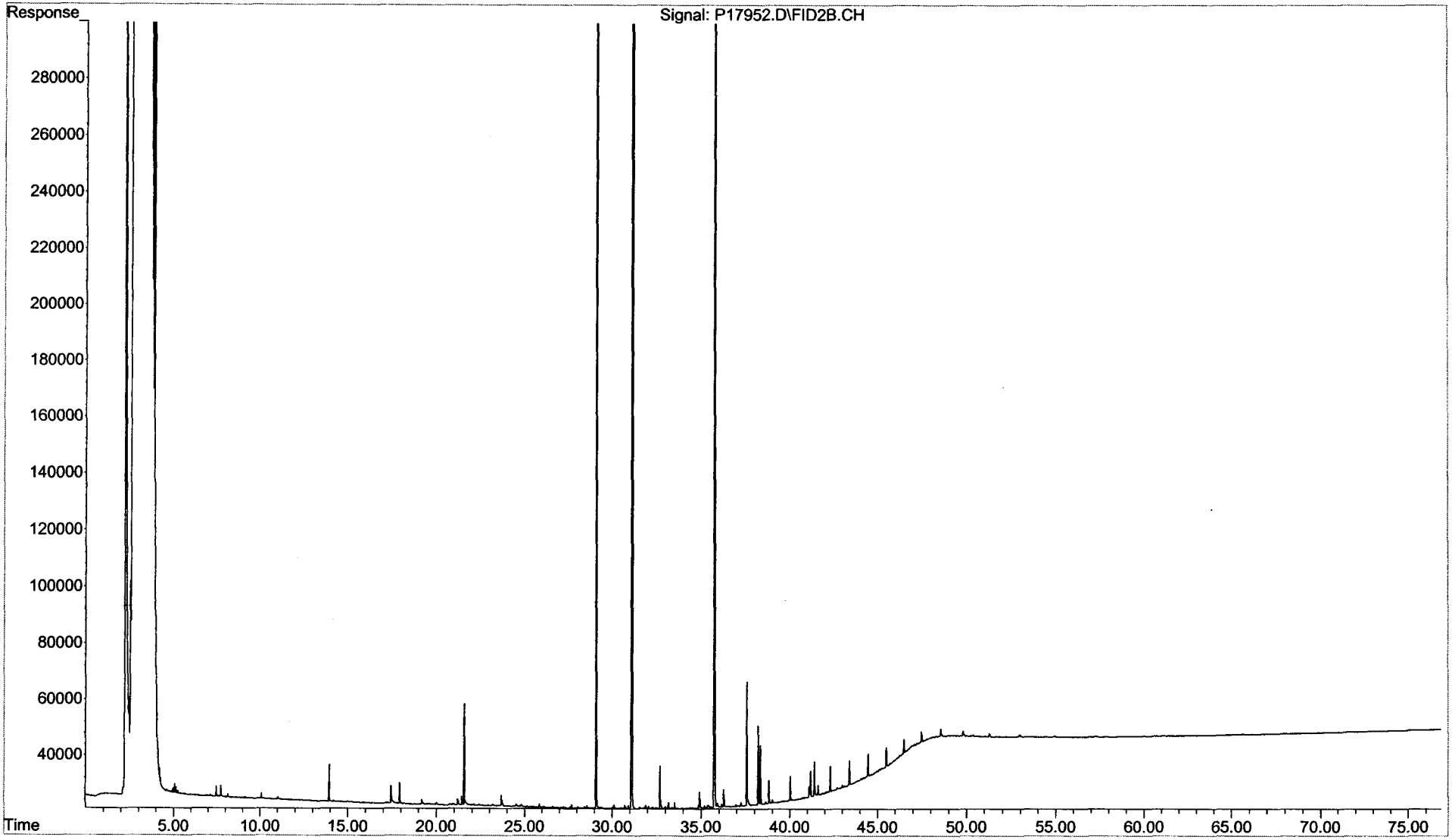
Integration File: SHCINT1.E
Quant Time: Feb 14 14:10:36 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Tue Feb 14 14:08:44 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.13	72366776	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.09	15505063	9.885 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	19.77%#
24) s d50-Tetracosane	35.74	12974838	9.229 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	18.46%#
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	505734792	348.978 ug/mL
44) h Total Resolved Hydrocarbon	40.94	11371432	7.847 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17952.D
Operator : AC
Acquired : 03 Feb 2006 6:10 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: SS012606B19-AFID
Misc Info : 1X ETR0601070
Vial Number: 53



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606B06**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/06/06	02/10/06	100	30.00	4	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	4.4 U

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	97	50-130
d50-Tetracosane	90	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08.SEC\
Data File : P18116.D
Signal(s) : FID2B.CH
Acq On : 10 Feb 2006 11:33 pm
Operator : AC
Sample : SS020606B06-AFID
Misc : 1X ETR0602004
ALS Vial : 55 Sample Multiplier: 1

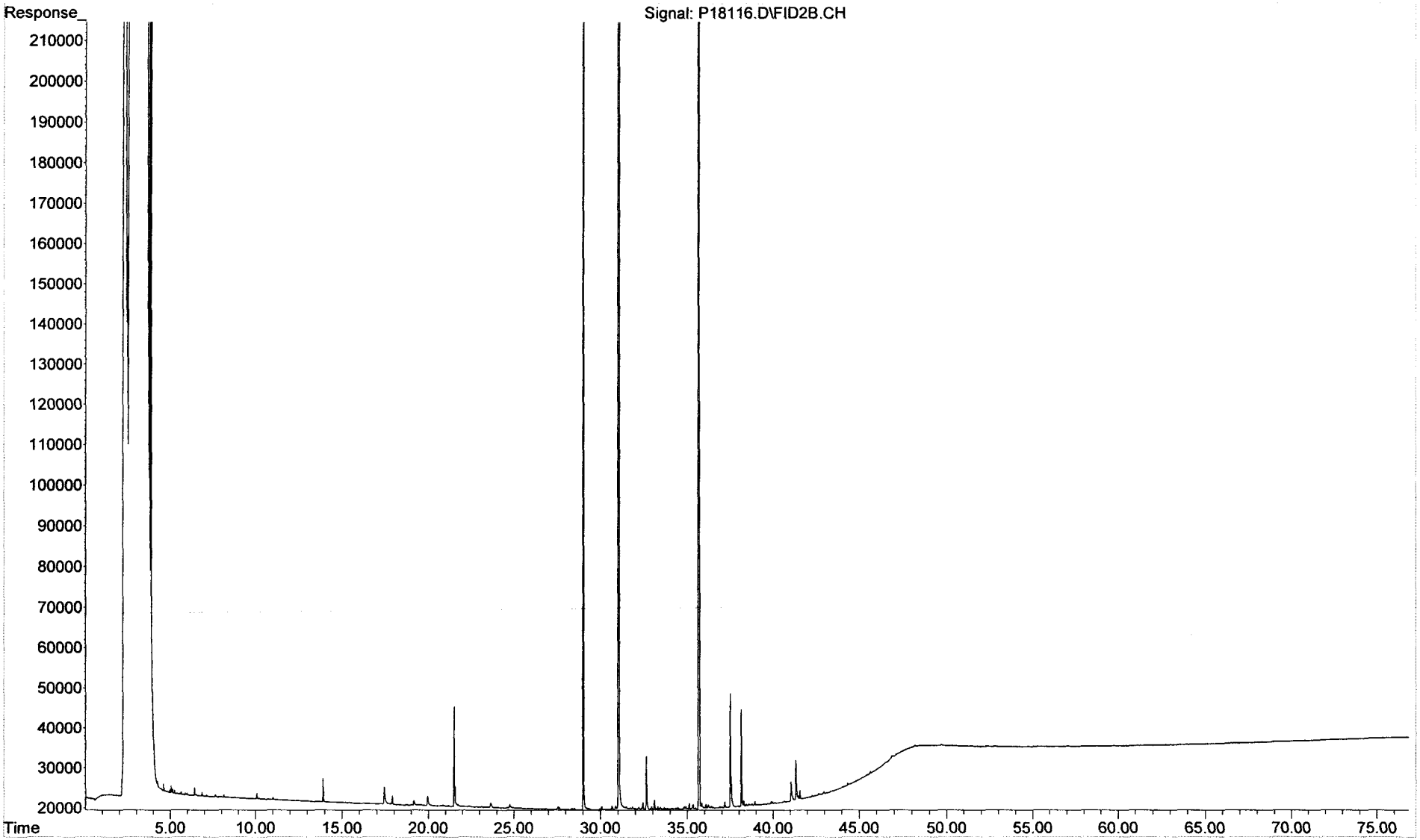
Integration File: SHCINT1.E
Quant Time: Feb 14 12:13:34 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.05	58084431	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.02f	15212613	12.083 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	24.17%#
24) s d50-Tetracosane	35.67	12641235	11.203 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	22.41%#
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	315728905	271.437 ug/mL
44) h Total Resolved Hydrocarbon	40.94	6039791	5.192 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB08.SEC\P18116.D
Operator : AC
Acquired : 10 Feb 2006 11:33 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: SS020606B06-AFID
Misc Info : 1X ETR0602004
Vial Number: 55



Form III
Spike Recovery Summary
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **See Below**
Associated Blank: **SS012606B19**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	01/26/06	100	AC

Lab ID:	SS012606B19		SS012606LCS05		SS012606LCSD05				
Parameter	**Blank Conc.**		**LCS Conc.**	**LCS % Recovery**	**LCSD Conc.**	**LCSD % Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
n-Nonane (C9)	0.13	U	1.1	66	0.98	59	12	30	50-130
n-Decane (C10)	0.13	U	1.2	72	1.1	67	7	30	50-130
n-Dodecane (C12)	0.13	U	1.2	75	1.2	71	5	30	50-130
n-Tetradecane (C14)	0.13	U	1.3	76	1.2	72	5	30	50-130
n-Hexadecane (C16)	0.13	U	1.3	79	1.3	76	4	30	50-130
n-Octadecane (C18)	0.13	U	1.3	79	1.2	75	5	30	50-130
n-Nonadecane (C19)	0.13	U	1.3	80	1.3	76	5	30	50-130
n-Eicosane (C20)	0.13	U	1.4	81	1.3	77	5	30	50-130
n-Docosane (C22)	0.13	U	1.3	80	1.3	76	5	30	50-130
n-Tetracosane (C24)	0.13	U	1.3	79	1.2	75	5	30	50-130
n-Hexacosane (C26)	0.13	U	1.4	81	1.3	77	5	30	50-130
n-Octacosane (C28)	0.13	U	1.3	81	1.3	76	5	30	50-130
n-Triacontane (C30)	0.13	U	1.3	80	1.3	76	5	30	50-130
n-Hexatriacontane (C36)	0.13	U	1.3	80	1.3	76	5	30	50-130

Surrogate	% Recovery		Acceptance Range (%)
ortho-Terphenyl	80	75	50-130
d50-Tetracosane	74	69	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

02/14/06 15:04

Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606LCS05**
Associated Blank: **SS012606B19**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	01/26/06	02/03/06	100	30.00	4	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	5.7

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	80	50-130
d50-Tetracosane	74	50-130

02/14/06 15:02

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17956.D
Signal(s) : FID2B.CH
Acq On : 03 Feb 2006 9:22 pm
Operator : AC
Sample : SS012606LCS05
Misc : 1X ETR0601070
ALS Vial : 55 Sample Multiplier: 1

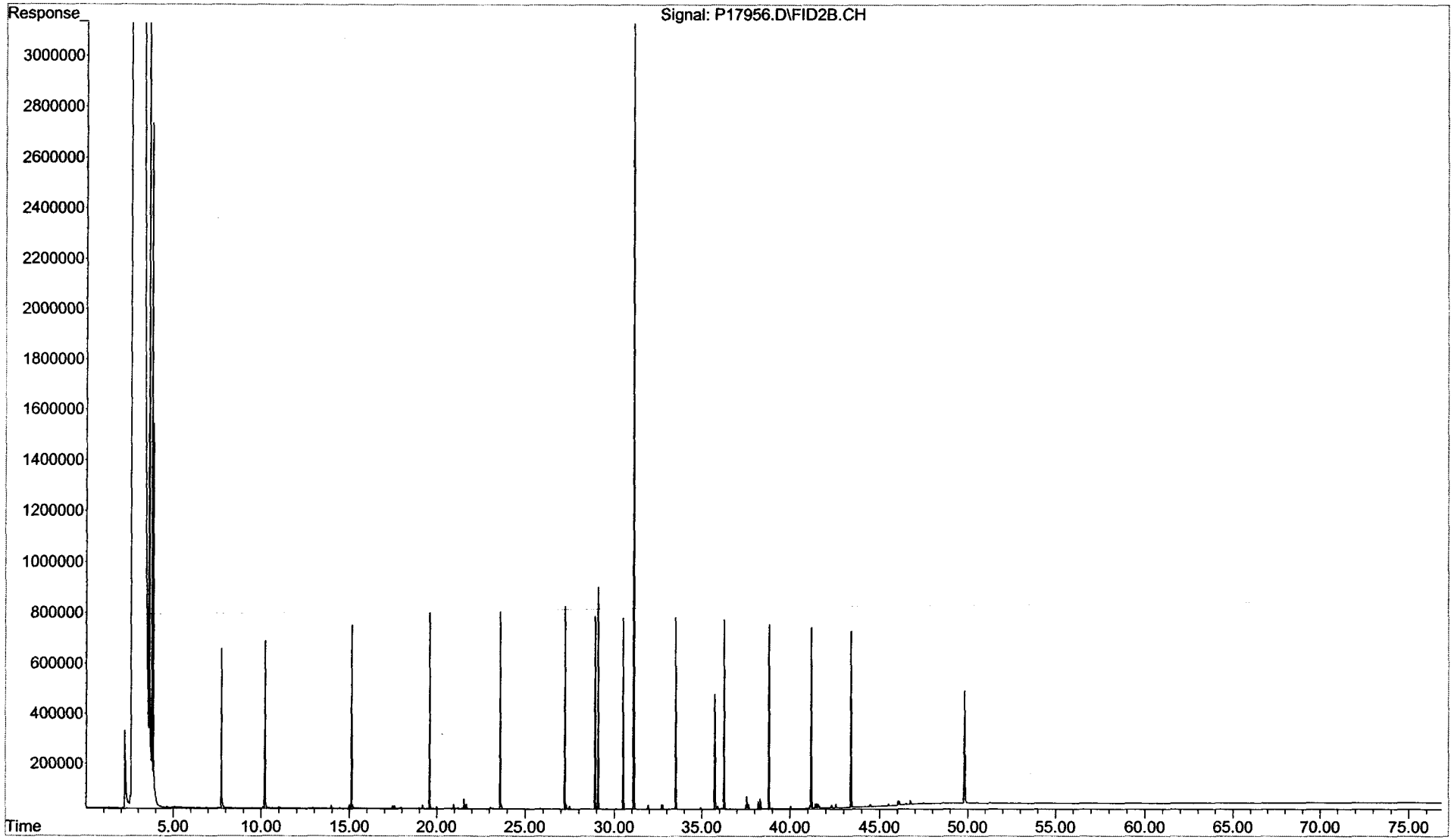
Integration File: SHCINT1.E
Quant Time: Feb 14 14:13:34 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Tue Feb 14 14:08:44 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.13	73610035	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.09	15933483	9.986 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 19.97%#
24) s	d50-Tetracosane	35.74	13148462	9.195 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 18.39%#
	Target Compounds			
3) t	n-Nonane (C9)	7.75	10808202	8.259 ug/mL
4) t	n-Decane (C10)	10.21	12001744	8.946 ug/mLm
6) t	n-Dodecane (C12)	15.12	13029746	9.413 ug/mLm
9) t	n-Tetradecane (C14)	19.60	13574135	9.525 ug/mL
12) t	n-Hexadecane (C16)	23.61	14336612	9.844 ug/mL
16) t	n-Octadecane (C18)	27.23	14594471	9.872 ug/mL
18) t	n-Nonadecane (C19)	28.91	14678851	9.992 ug/mLm
20) t	n-Eicosane (C20)	30.51	14801708	10.106 ug/mL
22) t	n-Docosane (C22)	33.51	14915048	9.993 ug/mL
25) t	n-Tetracosane (C24)	36.27	15071178	9.907 ug/mL
27) t	n-Hexacosane (C26)	38.82	15208713	10.143 ug/mL
29) t	n-Octacosane (C28)	41.20	15286817	10.070 ug/mL
31) t	n-Triacontane (C30)	43.42	15270744	10.038 ug/mLm
37) t	n-Hexatriacontane (C36)	49.83	15150466	10.030 ug/mLm
42) h	C9-C40 Total Petroleum Hyd	40.94	678233581	460.104 ug/mL
44) h	Total Resolved Hydrocarbon	40.94	215864533	146.439 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17956.D
Operator : AC
Acquired : 03 Feb 2006 9:22 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: SS012606LCS05
Misc Info : 1X ETR0601070
Vial Number: 55



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample Dup**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606LCSD05**
Associated Blank: **SS012606B19**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	01/26/06	02/03/06	100	30.00	4	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**4.1** J

N/A - Not Applicable
J - Estimated value, below quantitation limit.

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	75	50-130
d50-Tetracosane	69	50-130

02/14/06 15:02

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17958.D
Signal(s) : FID2B.CH
Acq On : 03 Feb 2006 10:57 pm
Operator : AC
Sample : SS012606LCSD05
Misc : 1X ETR0601070
ALS Vial : 56 Sample Multiplier: 1

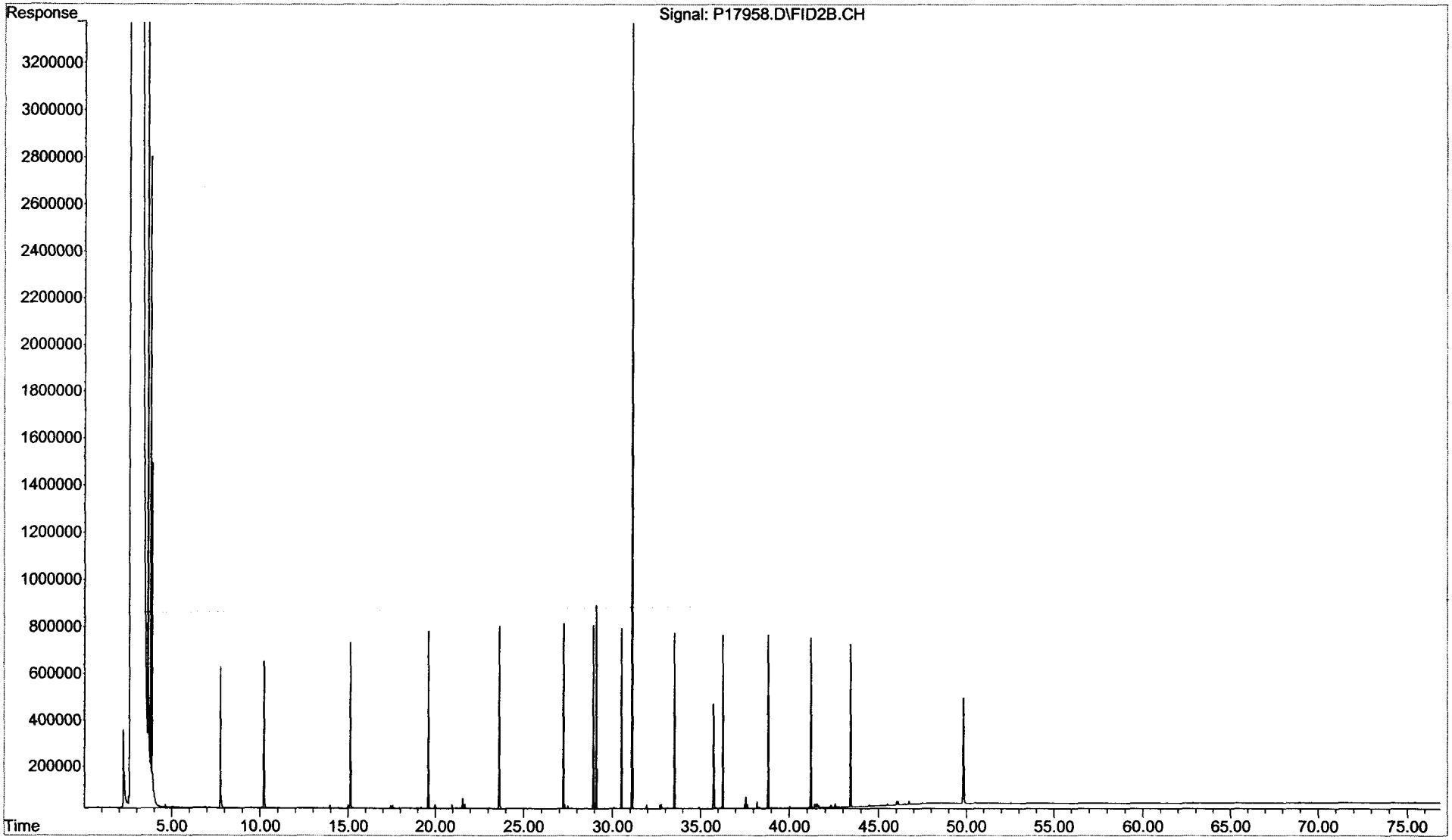
Integration File: SHCINT1.E
Quant Time: Feb 14 14:19:12 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Tue Feb 14 14:08:44 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.13	77878596	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.08	15802000	9.361 ug/mLm
Spiked Amount 50.000 Range 50 - 130		Recovery =	18.72%#
24) s d50-Tetracosane	35.73	13043186	8.621 ug/mL
Spiked Amount 50.000 Range 50 - 130		Recovery =	17.24%#
Target Compounds			
3) t n-Nonane (C9)	7.75	10153252	7.333 ug/mL
4) t n-Decane (C10)	10.21	11876653	8.367 ug/mLm
6) t n-Dodecane (C12)	15.12	13061995	8.919 ug/mLm
9) t n-Tetradecane (C14)	19.60	13600332	9.021 ug/mL
12) t n-Hexadecane (C16)	23.61	14619319	9.488 ug/mL
16) t n-Octadecane (C18)	27.23	14632936	9.355 ug/mL
18) t n-Nonadecane (C19)	28.91	14741486	9.485 ug/mLm
20) t n-Eicosane (C20)	30.51	14885288	9.606 ug/mL
22) t n-Docosane (C22)	33.51	15004335	9.502 ug/mL
25) t n-Tetracosane (C24)	36.27	15147007	9.411 ug/mL
27) t n-Hexacosane (C26)	38.82	15265113	9.623 ug/mL
29) t n-Octacosane (C28)	41.20	15314390	9.535 ug/mL
31) t n-Triacontane (C30)	43.41	15298688	9.505 ug/mLm
37) t n-Hexatriacontane (C36)	49.83	15208006	9.516 ug/mLm
42) h C9-C40 Total Petroleum Hyd	40.94	664044533	425.788 ug/mL
44) h Total Resolved Hydrocarbon	40.94	214111347	137.289 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17958.D
Operator : AC
Acquired : 03 Feb 2006 10:57 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: SS012606LCSD05
Misc Info : 1X ETR0601070
Vial Number: 56



Form III
Spike Recovery Summary
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **See Below**
Associated Blank: **SS020606B06**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	02/06/06	100	AC

Lab ID:	SS020606B06		SS020606LCS04		SS020606LCSD05				
Parameter	**Blank Conc.**		**LCS Conc.**	**LCS % Recovery**	**LCSD Conc.**	**LCSD % Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
n-Nonane (C9)	0.13	U	1.2	72	1.1	68	5	30	50-130
n-Decane (C10)	0.13	U	1.3	79	1.4	83	5	30	50-130
n-Dodecane (C12)	0.13	U	1.4	82	1.5	91	11	30	50-130
n-Tetradecane (C14)	0.13	U	1.4	82	1.6	93	12	30	50-130
n-Hexadecane (C16)	0.13	U	1.4	85	1.6	97	13	30	50-130
n-Octadecane (C18)	0.13	U	1.4	84	1.6	96	13	30	50-130
n-Nonadecane (C19)	0.13	U	1.4	86	1.6	98	13	30	50-130
n-Eicosane (C20)	0.13	U	1.4	87	1.6	99	13	30	50-130
n-Docosane (C22)	0.13	U	1.6	96	1.6	98	2	30	50-130
n-Tetracosane (C24)	0.13	U	1.4	85	1.6	96	13	30	50-130
n-Hexacosane (C26)	0.13	U	1.4	87	1.6	98	13	30	50-130
n-Octacosane (C28)	0.13	U	1.4	86	1.6	97	13	30	50-130
n-Triacontane (C30)	0.13	U	1.4	85	1.6	97	14	30	50-130
n-Hexatriacontane (C36)	0.13	U	1.3	80	1.6	96	19	30	50-130

Surrogate	% Recovery		Acceptance Range (%)
ortho-Terphenyl	87	99	50-130
d50-Tetracosane	80	91	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

02/15/06 10:16

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Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606LCS04**
Associated Blank: **SS020606B06**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/06/06	02/13/06	100	30.00	4	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**16**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	87	50-130
d50-Tetracosane	80	50-130

02/15/06 10:15

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB13.SEC\
Data File : P18186.D
Signal(s) : FID2B.CH
Acq On : 13 Feb 2006 11:10 pm
Operator : AC
Sample : SS020606LCS04
Misc :
ALS Vial : 56 Sample Multiplier: 1

RPR 2/15/06

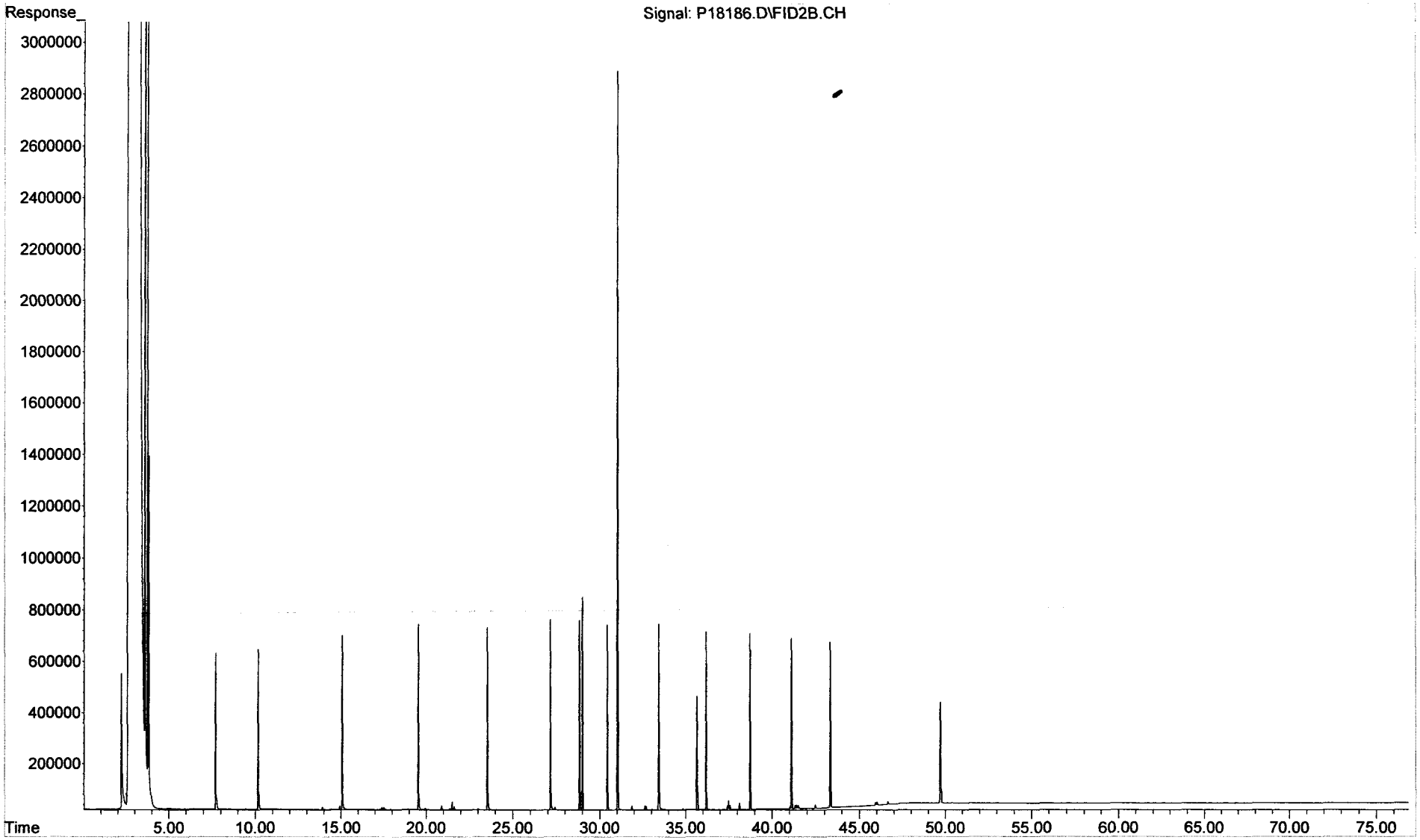
Integration File: SHCINT1.E
Quant Time: Feb 15 08:10:15 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.06	64895557	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.02f	15284262	10.866 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	21.73%#
24) s	d50-Tetracosane	35.67	12605810	9.999 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	20.00%#
	Target Compounds			
3) t	n-Nonane (C9)	7.71	10334266	8.957 ug/mLm
4) t	n-Decane (C10)	10.16	11652654	9.852 ug/mLm
6) t	n-Dodecane (C12)	15.07	12519223	10.259 ug/mLm
9) t	n-Tetradecane (C14)	19.55	12940938	10.300 ug/mLm
12) t	n-Hexadecane (C16)	23.56	13616239	10.605 ug/mLm
16) t	n-Octadecane (C18)	27.17	13759672	10.557 ug/mLm
18) t	n-Nonadecane (C19)	28.85	13920513	10.749 ug/mLm
20) t	n-Eicosane (C20)	30.45	14047325	10.878 ug/mLm
22) t	n-Docosane (C22)	33.45	15754012	11.972 ug/mLm
25) t	n-Tetracosane (C24)	36.21f	14222589	10.604 ug/mLm
27) t	n-Hexacosane (C26)	38.76f	14306005	10.822 ug/mLm
29) t	n-Octacosane (C28)	41.13f	14312357	10.694 ug/mLm
31) t	n-Triacontane (C30)	43.34f	14178308	10.572 ug/mLm
37) t	n-Hexatriacontane (C36)	49.73f	13261603	9.959 ug/mLm
42) h	C9-C40 Total Petroleum Hyd	40.94	689085852	530.240 ug/mL
44) h	Total Resolved Hydrocarbon	40.94	202504711	155.824 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

```
File        :O:\Forensics\Data\PAH1\February06\FEB13.SEC\P18186.D
Operator    : AC
Acquired    : 13 Feb 2006  11:10 pm using AcqMethod FRNC1D.M
Instrument  :   PAH-1
Sample Name: SS020606LCS04
Misc Info   :
Vial Number: 56
```



Form I
Total Saturated Hydrocarbons by GC/FID

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample Dup**
Case: **N/A** SDG: **N/A**
Matrix: **Sediment**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606LCSD05**
Associated Blank: **SS020606B06**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/06/06	02/11/06	100	30.00	4	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**24**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	99	50-130
d50-Tetracosane	91	50-130

02/14/06 16:13

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08.SEC\
Data File : P18124.D
Signal(s) : FID2B.CH
Acq On : 11 Feb 2006 5:49 am
Operator : AC
Sample : SS020606LCSD05-AFID
Misc : 1X ETR0602004
ALS Vial : 59 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Feb 14 13:42:43 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.06	64531844	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.02f	17304516	12.371 ug/mLm
Spiked Amount 50.000 Range 50 - 130		Recovery =	24.74%#
24) s d50-Tetracosane	35.67	14318618	11.422 ug/mLm
Spiked Amount 50.000 Range 50 - 130		Recovery =	22.84%#
Target Compounds			
3) t n-Nonane (C9)	7.72	9797684	8.540 ug/mLm
4) t n-Decane (C10)	10.17	12157822	10.337 ug/mLm
6) t n-Dodecane (C12)	15.08	13853944	11.416 ug/mLm
9) t n-Tetradecane (C14)	19.55	14566216	11.659 ug/mLm
12) t n-Hexadecane (C16)	23.56	15476741	12.122 ug/mLm
16) t n-Octadecane (C18)	27.17	15606381	12.041 ug/mLm
18) t n-Nonadecane (C19)	28.85	15719676	12.206 ug/mLm
20) t n-Eicosane (C20)	30.45	15849922	12.344 ug/mLm
22) t n-Docosane (C22)	33.45	15966102	12.202 ug/mLm
25) t n-Tetracosane (C24)	36.21f	16067724	12.047 ug/mLm
27) t n-Hexacosane (C26)	38.76f	16165699	12.298 ug/mLm
29) t n-Octacosane (C28)	41.13f	16208444	12.179 ug/mLm
31) t n-Triacontane (C30)	43.35f	16189572	12.139 ug/mLm
37) t n-Hexatriacontane (C36)	49.73f	15960339	12.053 ug/mLm
42) h C9-C40 Total Petroleum Hyd	40.94	553765758	428.515 ug/mL
44) h Total Resolved Hydrocarbon	40.94	222905142	172.488 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

```
File        :O:\Forensics\Data\PAH1\February06\FEB08.SEC\P18124.D
Operator    : AC
Acquired    : 11 Feb 2006   5:49 am using AcqMethod FRNC1D.M
Instrument  :   PAH-1
Sample Name: SS020606LCSD05-AFID
Misc Info   : 1X ETR0602004
Vial Number: 59
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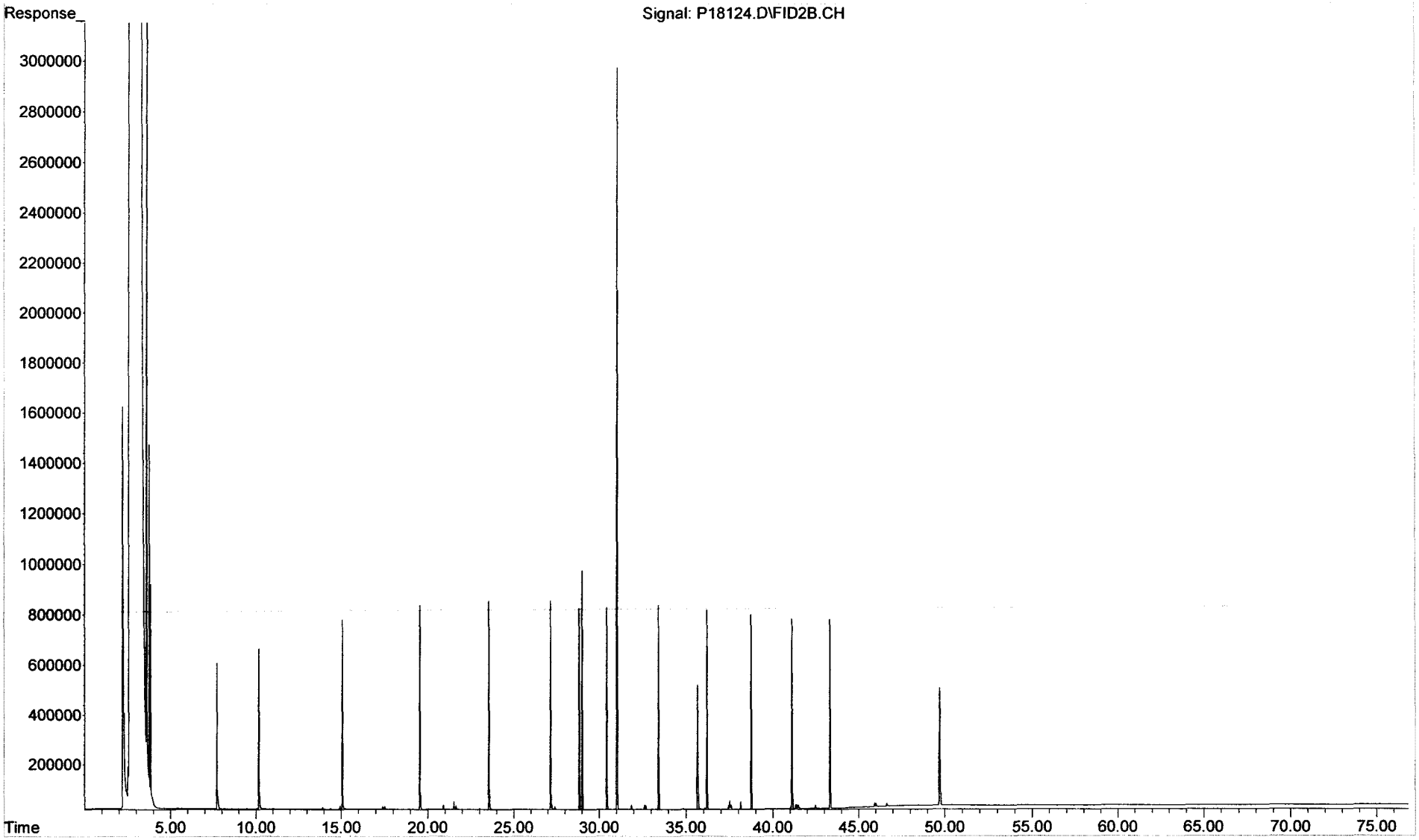

Form I
Alaska North Slope Crude
Total Saturated Hydrocarbons by GC/FID

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **TO020306AWS01**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	N/A	02/01/06	100	0.051	10	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**580000**

N/A - Not Applicable

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Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN31.SEC\
Data File : P17900.D
Signal(s) : FID2B.CH
Acq On : 01 Feb 2006 9:03 pm
Operator : AC
Sample : TO020306AWS01
Misc : 1X ANS STD
ALS Vial : 53 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Feb 03 17:46:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:40:18 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

2/7/06

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.15	83449774	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.14	88218274	48.772 ug/mLm
Spiked Amount 50.000 Range 50 - 130		Recovery =	97.54%
24) s d50-Tetracosane	35.78	73974136	45.631 ug/mLm
Spiked Amount 50.000 Range 50 - 130		Recovery =	91.26%
Target Compounds			
2) t n-Octane (C8)	5.60	34708214	25.796 ug/mLm
3) t n-Nonane (C9)	7.77	28879895	19.466 ug/mLm
4) t n-Decane (C10)	10.23	32891311	21.625 ug/mLm
5) t n-Undecane (C11)	12.72	32828229	21.315 ug/mLm
6) t n-Dodecane (C12)	15.14	32839001	20.926 ug/mLm
7) t n-Tridecane (C13)	17.44	32873578	20.677 ug/mLm
8) t 1380	19.11	7958589	4.926 ug/mLm
9) t n-Tetradecane (C14)	19.62	28829832	17.845 ug/mLm
10) t 1470	20.90	11085693	6.778 ug/mLm
11) t n-Pentadecane (C15)	21.68	30756901	18.804 ug/mLm
12) t n-Hexadecane (C16)	23.63	26303208	15.932 ug/mLm
13) t 1650	24.53	8503476	5.087 ug/mLm
14) t n-Heptadecane (C17)	25.49	23542142	14.084 ug/mLm
15) t Pristane	25.58	17901029	11.210 ug/mLm
16) t n-Octadecane (C18)	27.25	21435062	12.789 ug/mL
17) t Phytane	27.41	11275127	6.786 ug/mLm
18) t n-Nonadecane (C19)	28.93	21583571	12.960 ug/mLm
20) t n-Eicosane (C20)	30.53	20713961	12.475 ug/mL
21) t n-Heneicosane (C21)	32.06	19598464	11.438 ug/mLm
22) t n-Docosane (C22)	33.53	18467751	10.914 ug/mLm
23) t n-Tricosane (C23)	34.94	16250063	9.537 ug/mLm
25) t n-Tetracosane (C24)	36.29	15394474	8.926 ug/mLm
26) t n-Pentacosane (C25)	37.59	15381570	8.838 ug/mL
27) t n-Hexacosane (C26)	38.84	13648855	8.030 ug/mLm
28) t n-Heptacosane (C27)	40.05	9879011	5.833 ug/mLm
29) t n-Octacosane (C28)	41.22	7235232	4.204 ug/mLm
30) t n-Nonacosane (C29)	42.34	7102447	4.038 ug/mL
31) t n-Triacontane (C30)	43.43	5739992	3.328 ug/mL
32) t n-Hentriacontane (C31)	44.49	4758841	2.852 ug/mL
33) t n-Dotriacontane (C32)	45.51	5382021	3.197 ug/mLm
34) t n-Tritriacontane (C33)	46.50	3563434	2.094 ug/mLm
35) t n-tetratriacontane (C34)	47.49	3532565	2.044 ug/mLm
36) t n-Pentatriacontane (C35)	48.60	3012620	1.812 ug/mLm
37) t n-Hexatriacontane (C36)	49.86	1971339	1.151 ug/mLm

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN31.SEC\
Data File : P17900.D
Signal(s) : FID2B.CH
Acq On : 01 Feb 2006 9:03 pm
Operator : AC
Sample : TO020306AWS01
Misc : 1X ANS STD
ALS Vial : 53 Sample Multiplier: 1

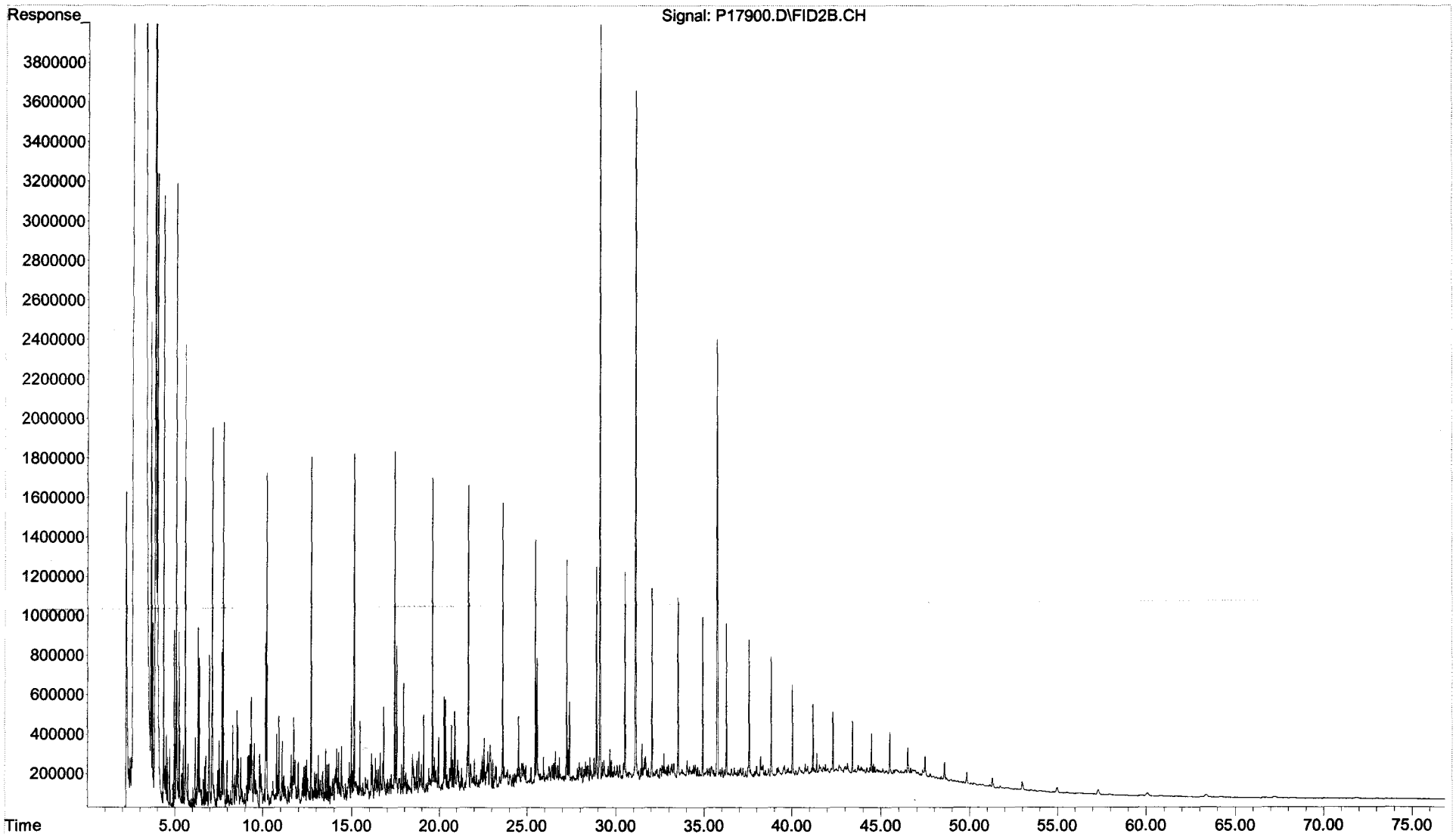
Integration File: SHCINT1.E
Quant Time: Feb 03 17:46:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:40:18 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc	Units
38) t	n-Heptatriacontane (C37)	51.31	1908726	1.039	ug/mL
39) t	n-Octatriacontane (C38)	52.99	1954531	1.131	ug/mLm
40) t	n-Nonatriacontane (C39)	54.97f	1547711	0.903	ug/mLm
41) t	n-Tetracontane (C40)	57.31	1655286	0.966	ug/mL
42) h	C9-C40 Total Petroleum Hyd	40.94	5594092859	3347.484	ug/mL
44) h	Total Resolved Hydrocarbon	40.94	1574830908	942.373	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\January06\JAN31.SEC\P17900.D
Operator : AC
Acquired : 01 Feb 2006 9:03 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: TO020306AWS01
Misc Info : 1X ANS STD
Vial Number: 53



Form I
Alaska North Slope Crude
Total Saturated Hydrocarbons by GC/FID

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **TS020806AWS01**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	N/A	02/06/06	100	0.051	10	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**570000**

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB06.SEC\
Data File : P17986A.D
Signal(s) : FID2B.CH
Acq On : 06 Feb 2006 1:01 pm
Operator : AC
Sample : TS020806AWS01
Misc : 1X ANS STD
ALS Vial : 53 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Feb 13 19:17:05 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Wed Feb 08 10:11:50 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.12	63070231	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.11	67299396	49.229 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 98.46%
24) s	d50-Tetracosane	35.76	55577905	45.361 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 90.72%
	Target Compounds			
2) t	n-Octane (C8)	5.58	26082363	25.649 ug/mLm
3) t	n-Nonane (C9)	7.75	22037884	19.654 ug/mLm
4) t	n-Decane (C10)	10.21	24546372	21.353 ug/mLm
5) t	n-Undecane (C11)	12.70	24656248	21.182 ug/mLm
6) t	n-Dodecane (C12)	15.12	24741080	20.860 ug/mLm
7) t	n-Tridecane (C13)	17.42	24843121	20.675 ug/mLm
8) t	1380	19.09f	5888974	4.823 ug/mLm
9) t	n-Tetradecane (C14)	19.60	22632476	18.536 ug/mLm
10) t	1470	20.88f	8496555	6.873 ug/mLm
11) t	n-Pentadecane (C15)	21.66	23033053	18.632 ug/mLm
12) t	n-Hexadecane (C16)	23.61	19670163	15.764 ug/mLm
13) t	1650	24.51f	6669111	5.279 ug/mLm
14) t	n-Heptadecane (C17)	25.46	17727921	14.032 ug/mLm
15) t	Pristane	25.56	13270882	10.995 ug/mLm
16) t	n-Octadecane (C18)	27.23	16155034	12.753 ug/mL
17) t	Phytane	27.39	8566510	6.822 ug/mL
18) t	n-Nonadecane (C19)	28.91	16746421	13.305 ug/mLm
20) t	n-Eicosane (C20)	30.51	15707303	12.516 ug/mLm
21) t	n-Heneicosane (C21)	32.04	14376139	11.101 ug/mLm
22) t	n-Docosane (C22)	33.51	14829162	11.595 ug/mLm
23) t	n-Tricosane (C23)	34.92	12172701	9.453 ug/mLm
25) t	n-Tetracosane (C24)	36.27	12106756	9.288 ug/mLm
26) t	n-Pentacosane (C25)	37.57	11504358	8.746 ug/mL
27) t	n-Hexacosane (C26)	38.82	10167694	7.914 ug/mL
28) t	n-Heptacosane (C27)	40.03	7474860	5.840 ug/mLm
29) t	n-Octacosane (C28)	41.20	5454302	4.193 ug/mLm
30) t	n-Nonacosane (C29)	42.32	5214476	3.923 ug/mLm
31) t	n-Triacontane (C30)	43.41	4307314	3.305 ug/mLm
32) t	n-Hentriacontane (C31)	44.47	3457068	2.741 ug/mLm
33) t	n-Dotriacontane (C32)	45.49	4327337	3.401 ug/mLm
34) t	n-Tritriacontane (C33)	46.48	3070362	2.388 ug/mLm
35) t	n-tetratriacontane (C34)	47.47	2737606	2.096 ug/mLm
36) t	n-Pentatriacontane (C35)	48.58	2343658	1.865 ug/mLm
37) t	n-Hexatriacontane (C36)	49.83	1445408	1.117 ug/mLm

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB06.SEC\
Data File : P17986A.D
Signal(s) : FID2B.CH
Acq On : 06 Feb 2006 1:01 pm
Operator : AC
Sample : TS020806AWS01
Misc : 1X ANS STD
ALS Vial : 53 Sample Multiplier: 1

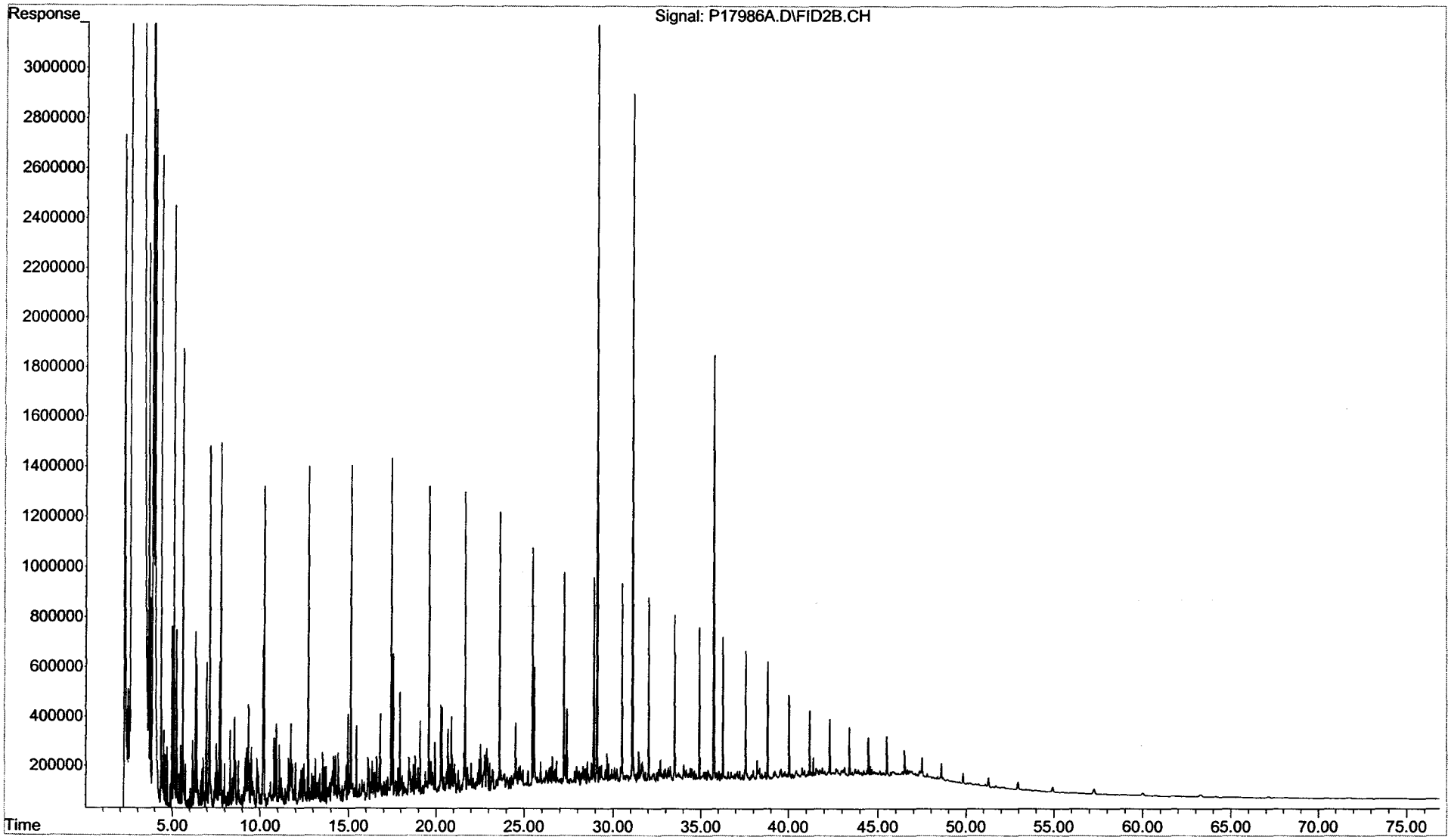
Integration File: SHCINT1.E
Quant Time: Feb 13 19:17:05 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Wed Feb 08 10:11:50 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

		Compound	R.T.	Response	Conc	Units
38)	t	n-Heptatriacontane (C37)	51.28	1387099	0.999	ug/mL
39)	t	n-Octatriacontane (C38)	52.96	1414533	1.083	ug/mL
40)	t	n-Nonatriacontane (C39)	54.94	1183186	0.913	ug/mLm
41)	t	n-Tetracontane (C40)	57.27	1327480	1.025	ug/mL
42)	h	C9-C40 Total Petroleum Hyd	40.94	4394153243	3479.083	ug/mL
43)	h	C10-C28 DRO	26.02	2609778877	2066.299	ug/mL
44)	h	Total Resolved Hydrocarbon	40.94	1174678234	930.055	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB06.SEC\P17986A.D
Operator : AC
Acquired : 06 Feb 2006 1:01 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: TS020806AWS01
Misc Info : 1X ANS STD
Vial Number: 53



Form I
Alaska North Slope Crude
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **TS021506AWS02**
Associated Blank: **SS020606B06**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	N/A	02/13/06	100	0.051	10	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**580000**

N/A - Not Applicable

02/15/06 11:32

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB13.SEC\
Data File : P18180.D
Signal(s) : FID2B.CH
Acq On : 13 Feb 2006 4:57 pm
Operator : AC
Sample : TS021506AWS02
Misc : ANS
ALS Vial : 53 Sample Multiplier: 1

RA 2/15/06

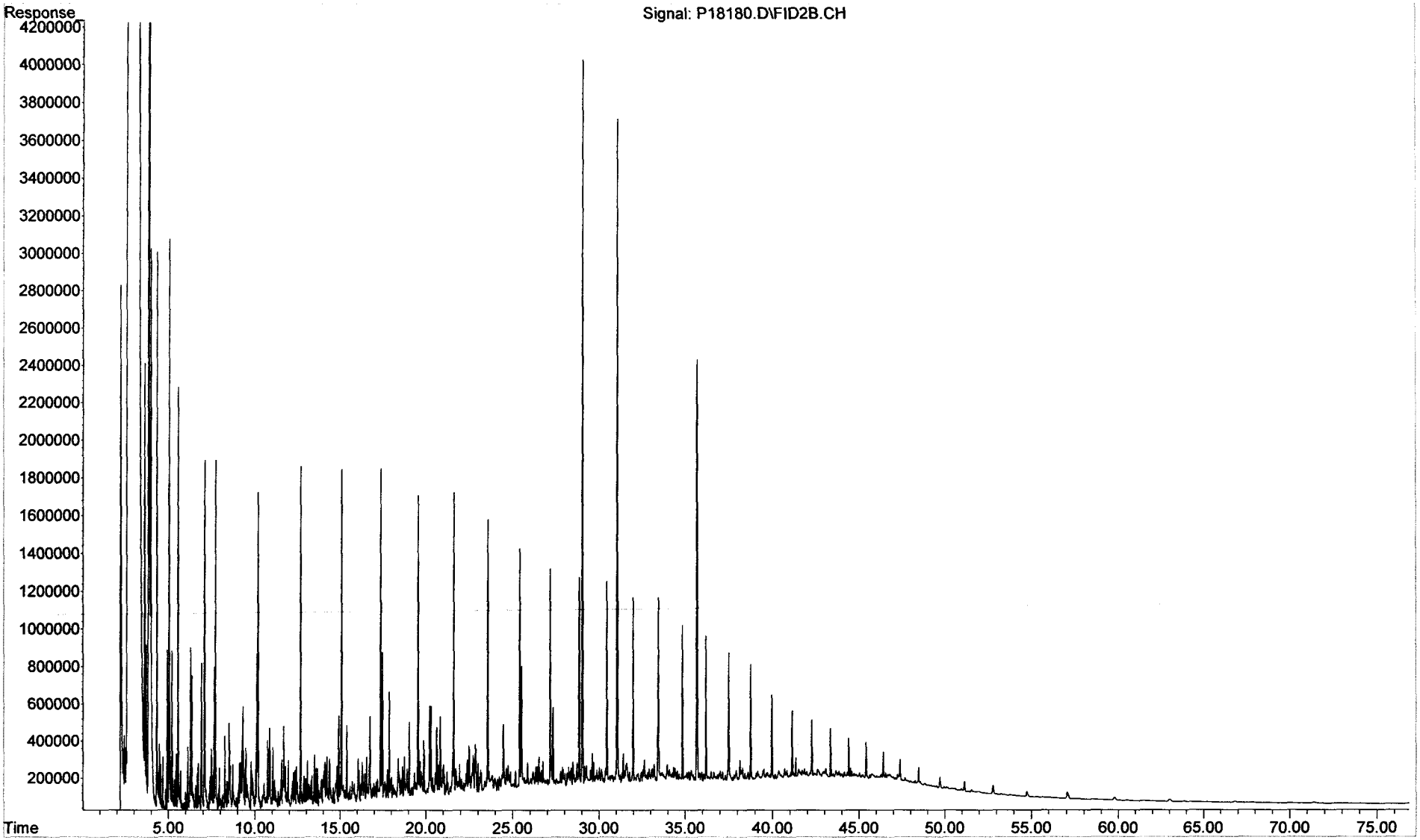
Integration File: SHCINT1.E
Quant Time: Feb 15 08:05:12 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.07	86203192	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.06	91652761	49.052 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	98.10%
24) s d50-Tetracosane	35.71	75734148	45.224 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	90.45%
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	5615162835	3252.767 ug/mL
44) h Total Resolved Hydrocarbon	40.94	1551647920	898.843 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

```
File        :O:\Forensics\Data\PAH1\February06\FEB13.SEC\P18180.D
Operator    : AC
Acquired    : 13 Feb 2006   4:57 pm using AcqMethod FRNC1D.M
Instrument  :   PAH-1
Sample Name: TS021506AWS02
Misc Info   : ANS
Vial Number: 53
```



Instrument Blank Association

ETR: 0601070

Project: Gowanus Canal

	Associated Instrument Blank	
Sample ID	**Laboratory ID**	**File ID**
TO020306AWS01	IB101310601	P17904.D
0601070-01	IB102030601	P17950.D
0601070-02	IB102030601	P17950.D
0601070-03	IB102030601	P17950.D
0601070-05	IB102030601	P17950.D
0601070-07	IB102030601	P17950.D
0601070-08	IB102030601	P17950.D
0601070-09	IB102030601	P17950.D
0601070-09 D	IB102030601	P17950.D
SS012606B19	IB102030601	P17950.D
SS012606LCS05	IB102030601	P17950.D
SS012606LCSD05	IB102030601	P17950.D
TS020806AWS01	IB102060601	P17990A.D
0601070-04	IB102080601	P18110.D
0601070-06	IB102080601	P18110.D
SS020606B06	IB102080601	P18110.D
SS020606LCSD05	IB102080601	P18110.D
TS021506AWS02	IB102130601	P18184.D
SS020606LCS04	IB102130601	P18184.D

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\January06\JAN31.SEC\
Data File : P17904.D
Signal(s) : FID2B.CH
Acq On : 02 Feb 2006 12:13 am
Operator : AC
Sample : IB101310601
Misc : DCM
ALS Vial : 55 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Feb 03 17:36:01 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Mon Jan 30 20:24:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

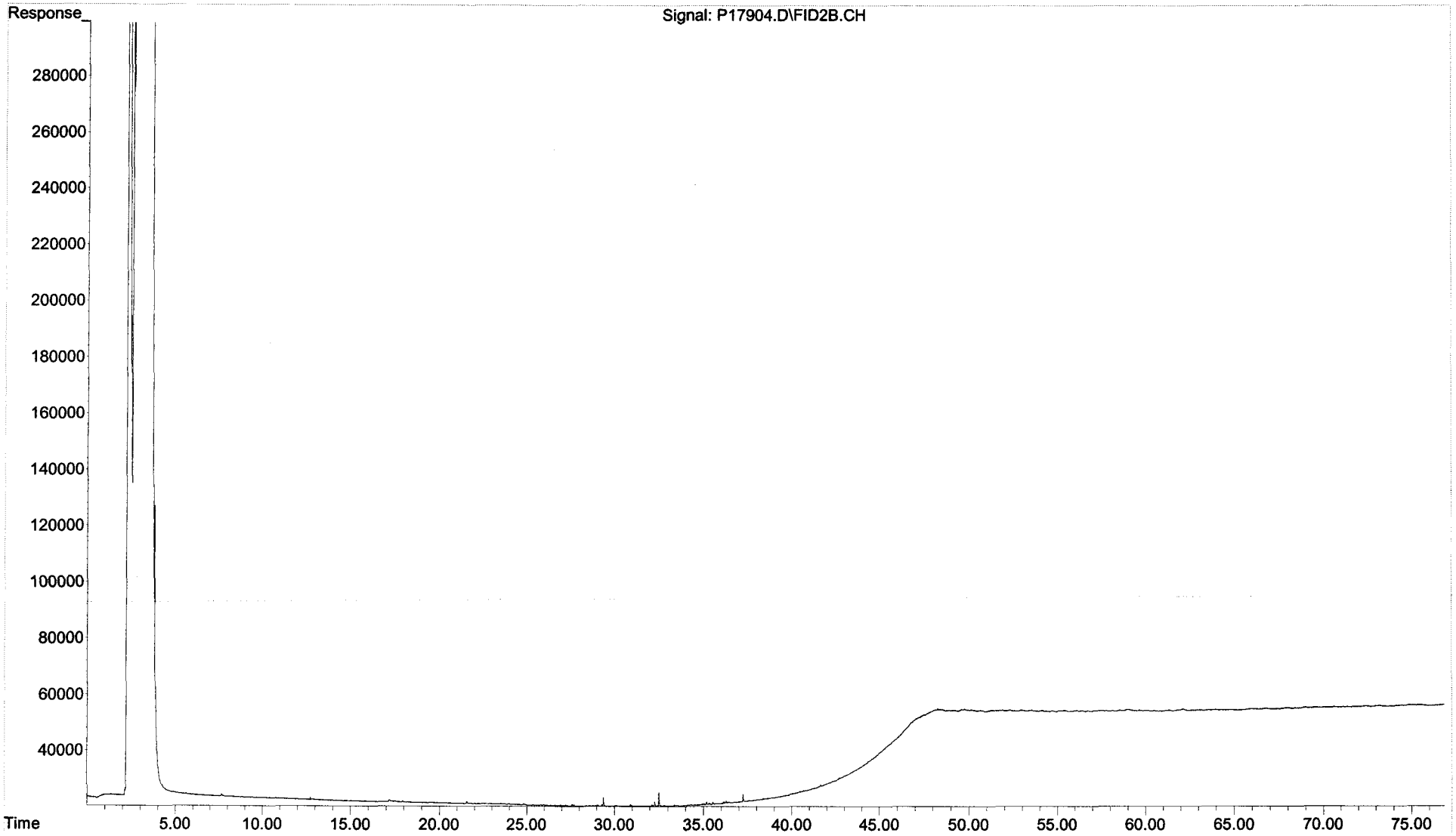
Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

2/7/06

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	30.91f	20515	50.000 ug/mLm
System Monitoring Compounds			
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	656856265	1598850.473 ug/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\January06\JAN31.SEC\P17904.D
Operator : AC
Acquired : 02 Feb 2006 12:13 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: IB101310601
Misc Info : DCM
Vial Number: 55



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17950.D
Signal(s) : FID2B.CH
Acq On : 03 Feb 2006 4:33 pm
Operator : AC
Sample : IB102030601
Misc : DCM
ALS Vial : 52 Sample Multiplier: 1

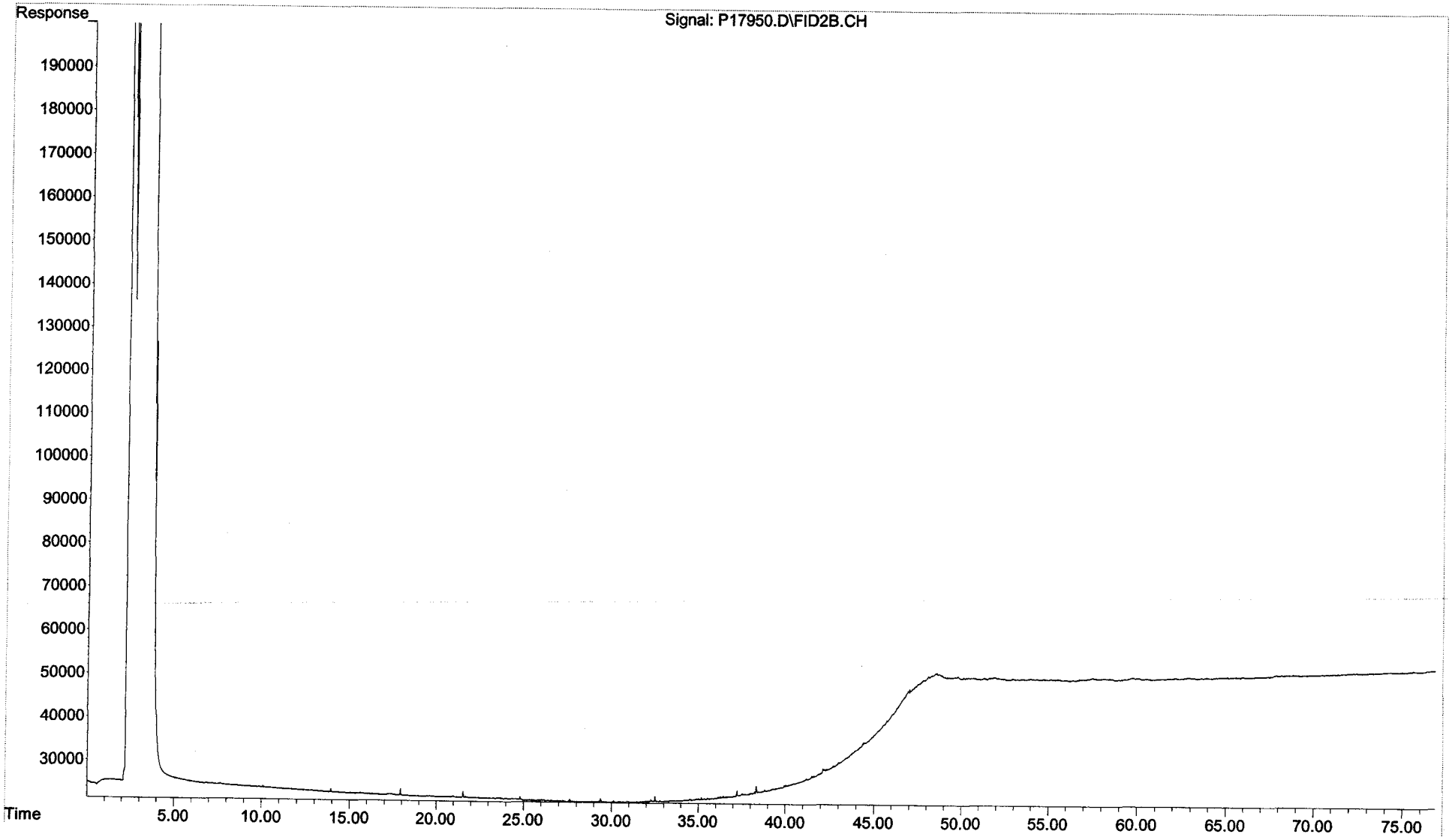
Integration File: SHCINT1.E
Quant Time: Feb 07 15:30:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	30.91f	12751	50.000 ug/mLm
System Monitoring Compounds			
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	615618269	2410977.636 ug/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17950.D
Operator : AC
Acquired : 03 Feb 2006 4:33 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: IB102030601
Misc Info : DCM
Vial Number: 52



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB06.SEC\
Data File : P17990A.D
Signal(s) : FID2B.CH
Acq On : 06 Feb 2006 4:13 pm
Operator : AC
Sample : IB102060601
Misc : DCM
ALS Vial : 55 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Feb 13 20:34:44 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Wed Feb 08 10:17:20 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

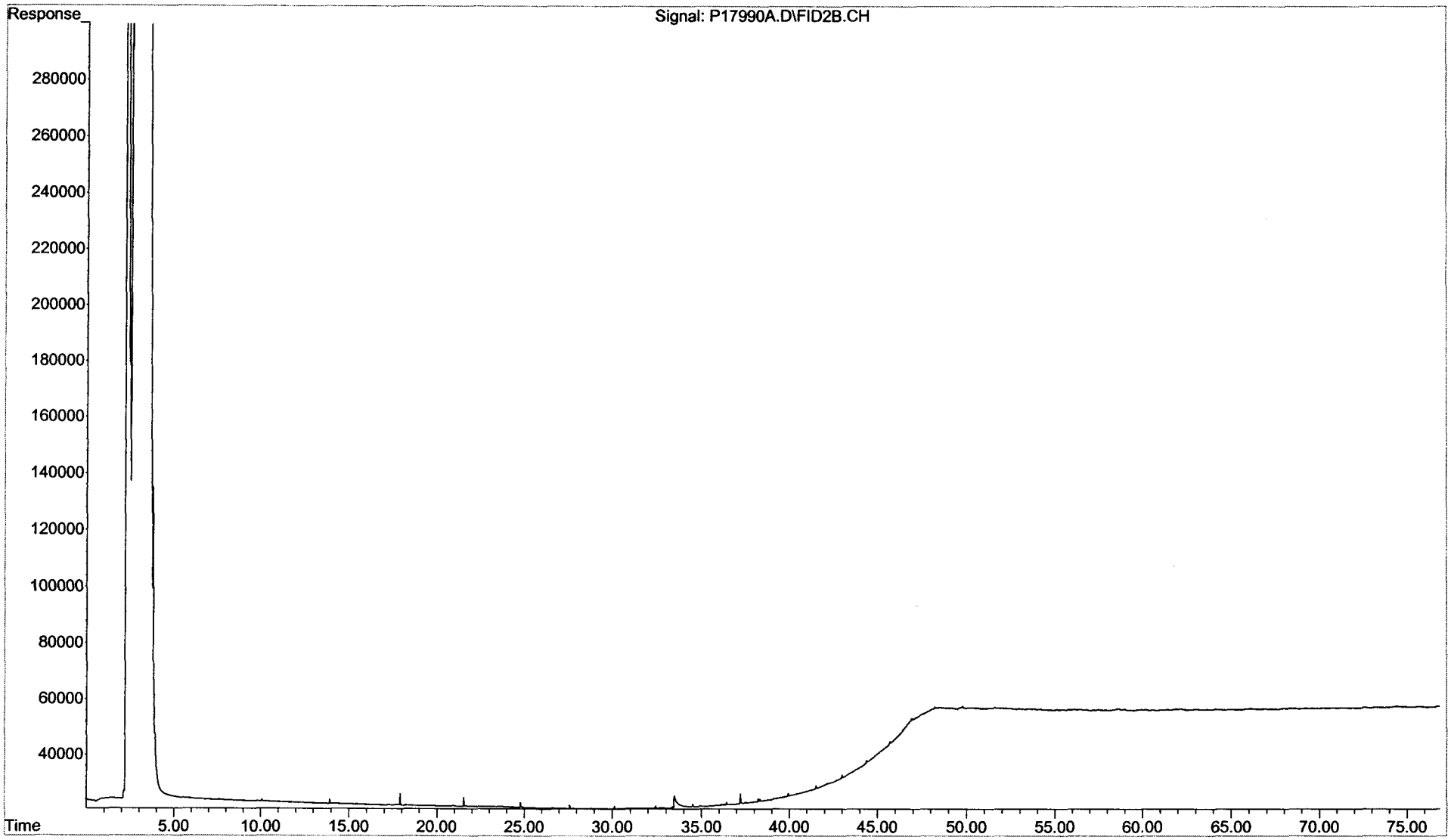
Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

2/14/06

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	33.48f	656903	50.000 ug/mLm
System Monitoring Compounds				
Target Compounds				
42) h	C9-C40 Total Petroleum Hyd	40.94	697333395	53009.444 ug/mL
43) h	C10-C28 DRO	26.02	41140270	3127.375 ug/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB06.SEC\P17990A.D
Operator : AC
Acquired : 06 Feb 2006 4:13 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: IB102060601
Misc Info : DCM
Vial Number: 55



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08.SEC\
Data File : P18110.D
Signal(s) : FID2B.CH
Acq On : 10 Feb 2006 6:52 pm
Operator : AC
Sample : IB102080601
Misc : DCM
ALS Vial : 52 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Feb 14 12:11:23 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

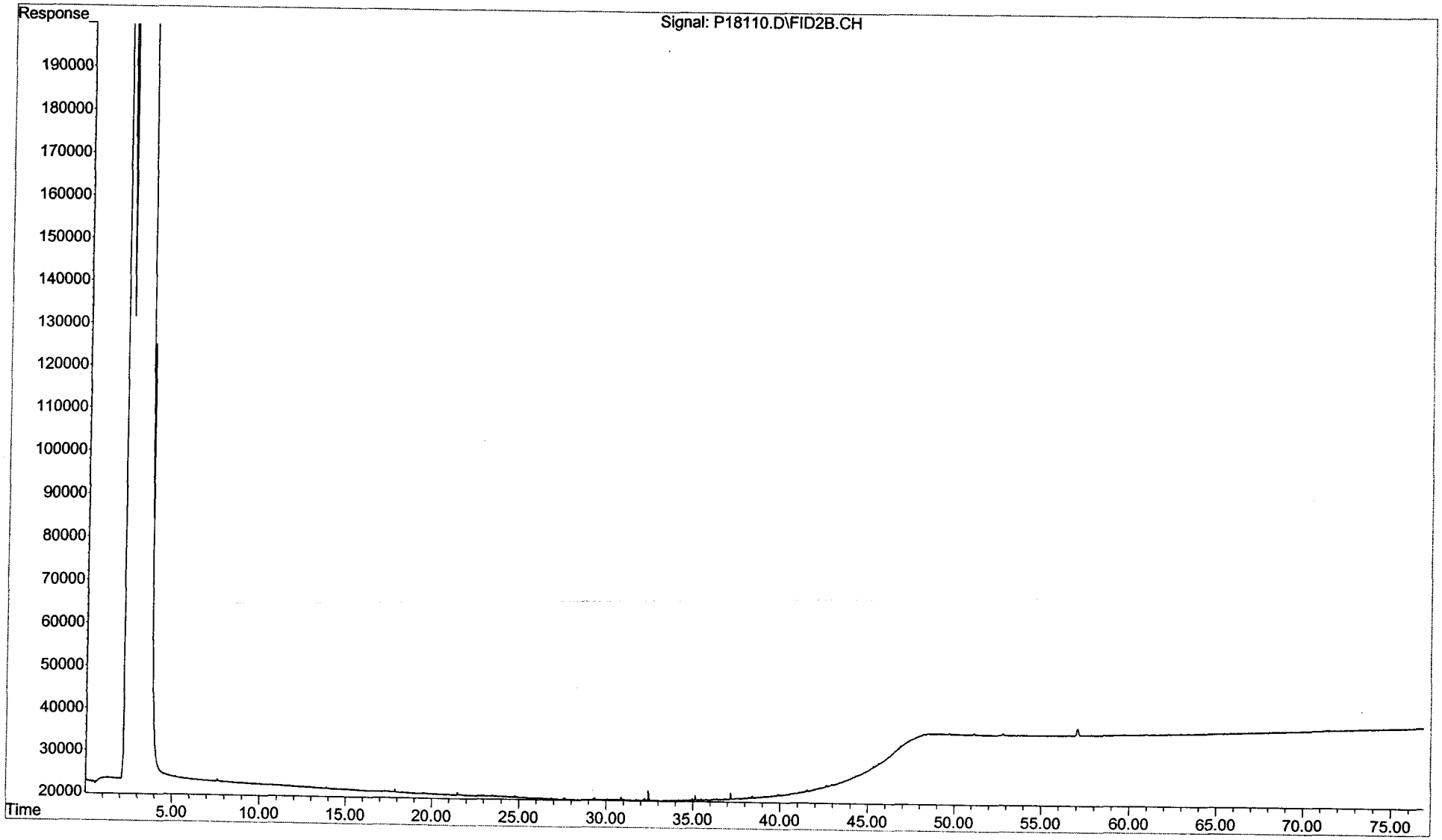
Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

2/14/06

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.14	80	50.000 ug/mLm
System Monitoring Compounds			
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	322698434	201857402.728 ug/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB08.SEC\P18110.D
Operator : AC
Acquired : 10 Feb 2006 6:52 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: IB102080601
Misc Info : DCM
Vial Number: 52



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB13.SEC\
Data File : P18184.D
Signal(s) : FID2B.CH
Acq On : 13 Feb 2006 9:37 pm
Operator : AC
Sample : IB102130601
Misc : DCM
ALS Vial : 55 Sample Multiplier: 1

2/15/06
RPR

Integration File: SHCINT1.E
Quant Time: Feb 15 08:08:28 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

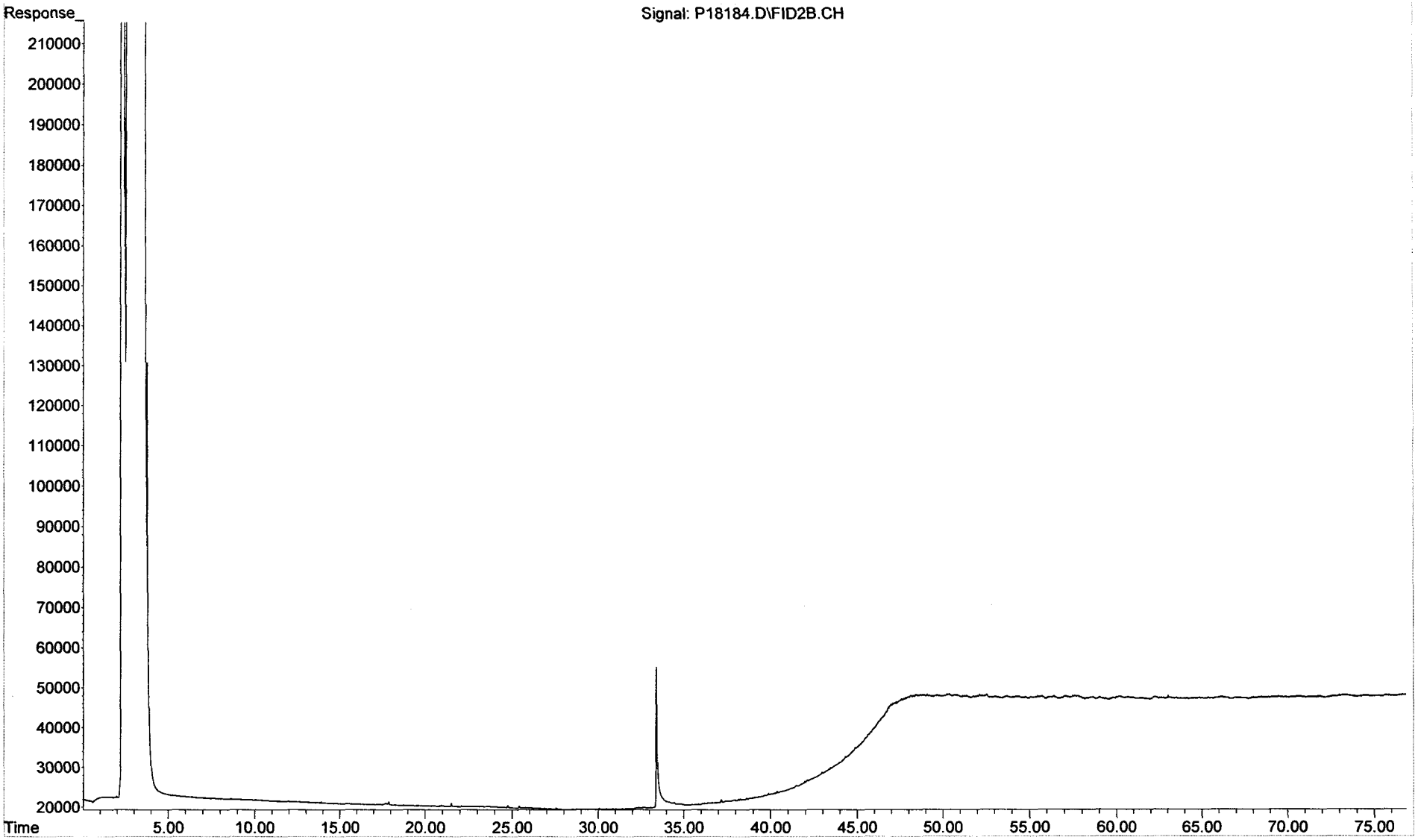
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.14	71	50.000 ug/mLm
System Monitoring Compounds			
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.94	533872303	374966732.179 ug/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

GC-FID Chromatogram contains a contaminant peak. This Instrument Blank is being used for an LCS only which is reporting target compounds

2/16/06

```
File        :O:\Forensics\Data\PAH1\February06\FEB13.SEC\P18184.D
Operator    : AC
Acquired    : 13 Feb 2006   9:37 pm using AcqMethod FRNC1D.M
Instrument :   PAH-1
Sample Name: IB102130601
Misc Info   : DCM
Vial Number: 55
```



Sequence Name: C:\MSDChem\1\sequence\S1013101.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\JANUARY06\JAN31\

Top	Pre-Seq Cmd:
Instrument Control	Pre-Seq Cmd:
Data Analysis	Pre-Seq Cmd:
	Post-Seq Cmd:
Instrument Control	Post-Seq Cmd:
Data Analysis	Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

2/3/06

Line			Sample Name/Misc Info		
1)	Debug				
2)	RearSamp	51	P17873	FRNC1D	ALK STD
3)	Sample	1	P17874	FRNC1D	PAH STD
4)	Sample	2	P17875	FRNC1D	C1013101 PASS
5)	Sample	3	P17876	FRNC1D	ANS1013101
6)	Sample	4	P17877	FRNC1D	DCM
7)	Sample	5	P17878	FRNC1D	DCM
8)	Sample	6	P17879	FRNC1D	BLK S0012706B02
9)	Sample	7	P17880	FRNC1D	LCS LCS02
10)	Sample	8	P17881	FRNC1D	LCSD LCSD02
11)	Sample	9	P17882	FRNC1D	0601072-01 ✓
12)	Sample	10	P17883	FRNC1D	0601072-01D ✓
13)	Sample	11	P17884	FRNC1D	0601072-01TRP ✓
14)	Sample	12	P17885	FRNC1D	0601072-02 ✓
15)	Sample	13	P17886	FRNC1D	0601072-02D ✓
16)	Sample	14	P17887	FRNC1D	0601072-03 ✓
17)	Pause				
18)	DualTwr				
19)	SepGC1				
[illegible]	RearSamp	51	P17888	FRNC1D	DCM-AFID
[illegible]	Sample	15	P17889	FRNC1D	0601072-04 ✓
22)	RearSamp	51	P17890	FRNC1D	DCM-AFID
23)	Sample	16	P17891	FRNC1D	C1013102 PASS
24)	RearSamp	51	P17892	FRNC1D	DCM-AFID
25)	Sample	17	P17893	FRNC1D	0601072-13 ✓
26)	RearSamp	51	P17894	FRNC1D	DCM
27)	Sample	18	P17895	FRNC1D	0601072-18 ✓
28)	RearSamp	51	P17896	FRNC1D	DCM-AFID
29)	Sample	19	P17897	FRNC1D	DCM
30)	RearSamp	52	P17898	FRNC1D	C1020101-AFID PASS 2/3/06
31)	Sample	20	P17899	FRNC1D	SS013106B08 ✓
32)	RearSamp	53	P17900	FRNC1D	ANS1020101-AFID TO020306AWS01 2/3/06
33)	Sample	21	P17901	FRNC1D	SS013106LCS03 ✓
34)	RearSamp	54	P17902	FRNC1D	DCM-AFID
35)	Sample	22	P17903	FRNC1D	SS013106LCSD03 ✓
36)	RearSamp	55	P17904	FRNC1D	DCM-AFID IB101310601 2/3/06
37)	Sample	23	P17905	FRNC1D	0601080-01 ✓
38)	RearSamp	56	P17906	FRNC1D	SS013106B08-AFID
39)	Sample	24	P17907	FRNC1D	0601080-01D ✓
40)	RearSamp	57	P17908	FRNC1D	SS013106LCS03-AFID
41)	Sample	25	P17909	FRNC1D	0601080-01TRP ✓
42)	RearSamp	58	P17910	FRNC1D	SS013106LCSD03-AFID
43)	Sample	26	P17911	FRNC1D	~~C1013103~~ DCM

PAH #1 Sequence Information

SHC Continuing Calibration: WHAC10 Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: HC11005.M PAH Process Method: PAH10104.M

Sequence Name: C:\MSDCHEM\1\SEQUENCE\S1013101.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	59	P17912	FRNC1D	0601080-01-AFID
45)	Sample	27	P17913	FRNC1D	0601080-02 ✓
46)	RearSamp	60	P17914	FRNC1D	0601080-01D-AFID
47)	Sample	28	P17915	FRNC1D	0601080-02D ✓
48)	RearSamp	61	P17916	FRNC1D	0601080-01TRP-AFID
49)	Sample	29	P17917	FRNC1D	0601080-03 ✓
50)	RearSamp	99	P17917A	FRNC1D	DCM
51)	Sample	100	P17917B	FRNC1D	C1013103 PASS
52)	RearSamp	62	P17918	FRNC1D	0601080-02-AFID
53)	Sample	30	P17919	FRNC1D	0601080-04 ✓
54)	RearSamp	63	P17920	FRNC1D	0601080-02D-AFID
55)	Sample	31	P17921	FRNC1D	0601080-05 ✓
56)	RearSamp	99	P17921A	FRNC1D	DCM-AFID
57)	Sample	100	P17921B	FRNC1D	QA WHAC40
58)	RearSamp	64	P17922	FRNC1D	0601080-03-AFID
59)	Sample	32	P17923	FRNC1D	0601080-06 ✓
60)	RearSamp	65	P17924	FRNC1D	C1020102-AFID PASS
61)	Sample	33	P17925	FRNC1D	C1013104 PASS
62)	RearSamp	66	P17926	FRNC1D	DCM-AFID
63)	Sample	34	P17927	FRNC1D	DCM
64)	RearSamp	67	P17928	FRNC1D	0601080-04-AFID
65)	Sample	35	P17929	FRNC1D	0601070-01-RE ✓
66)	RearSamp	68	P17930	FRNC1D	0601080-05-AFID
67)	Sample	36	P17931	FRNC1D	0601070-02-RE ✓
68)	RearSamp	69	P17932	FRNC1D	0601080-06-AFID
69)	Sample	37	P17933	FRNC1D	0601070-03-RE ✓
70)	RearSamp	70	P17934	FRNC1D	C1020103-AFID PASS
71)	Sample	38	P17935	FRNC1D	0601070-04-RE ✓
72)	RearSamp	71	P17936	FRNC1D	DCM-AFID
73)	Sample	39	P17937	FRNC1D	0601070-05-RE ✓
74)	RearSamp	72	P17938	FRNC1D	DCM-AFID
75)	Sample	40	P17939	FRNC1D	0601070-06-RE ✓
76)	RearSamp	73	P17940	FRNC1D	DCM-AFID
77)	Sample	41	P17941	FRNC1D	0601070-07-RE ✓
78)	RearSamp	74	P17942	FRNC1D	DCM-AFID
79)	Sample	42	P17943	FRNC1D	0601070-08-RE ✓
80)	RearSamp	75	P17944	FRNC1D	DCM-AFID
81)	Sample	43	P17945	FRNC1D	0601070-09-RE ✓
82)	RearSamp	75	P17946	FRNC1D	
83)	Sample	44	P17947	FRNC1D	0601070-09D-RE NO IS, rerun (reprep) w/IS.
84)	Pause				
85)	RearSamp	51	P17948	FRNC1D	C1020301-AFID sequence continued
86)	Sample	1	P17949	FRNC1D	C1020301 S1020301.
87)	RearSamp	52	P17950	FRNC1D	DCM-AFID
88)	Sample	2	P17951	FRNC1D	DCM
89)	RearSamp	53	P17952	FRNC1D	
90)	Sample	3	P17953	FRNC1D	0601080-02D-RE
91)	RearSamp	54	P17954	FRNC1D	
92)	Sample	4	P17955	FRNC1D	0601080-02-RE
93)	RearSamp	55	P17956	FRNC1D	
94)	Sample	5	P17957	FRNC1D	0601080-03-RE
95)	RearSamp	56	P17958	FRNC1D	
96)	Sample	6	P17959	FRNC1D	0601080-04-RE

MS 2/01/04

Sequence Name: C:\MSDChem\1\sequence\S1020301.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\FEBRUARY06\FEB03\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line					Sample Name/Misc Info
1)	Debug				
2)	DualTwr				
3)	SepGC1				
4)	RearSamp	51	P17948	FRNC1D	C1020301-AFID PASS 2/7/06
5)	Sample	1	P17949	FRNC1D	C1020301 PASS
6)	RearSamp	52	P17950	FRNC1D	DCM-AFID IB102030601 2/7/06
7)	Sample	2	P17951	FRNC1D	DCM
8)	RearSamp	53	P17952	FRNC1D	SS012606B19-AFID
9)	Sample	3	P17953	FRNC1D	0601080-02D-RE ✓
10)	RearSamp	54	P17954	FRNC1D	SS013006B05-AFID
11)	Sample	4	P17955	FRNC1D	0601080-02-RE ✓
12)	RearSamp	55	P17956	FRNC1D	SS012606LCS05
13)	Sample	5	P17957	FRNC1D	0601080-03-RE ✓
14)	RearSamp	56	P17958	FRNC1D	SS012606LCSD05
15)	Sample	6	P17959	FRNC1D	0601080-04-RE ✓
16)	RearSamp	57	P17960	FRNC1D	SS013006LCS03
17)	Sample	7	P17961	FRNC1D	0601080-05-RE ✓
18)	RearSamp	58	P17962	FRNC1D	SS013006LCSD04
)	Sample	8	P17963	FRNC1D	0601080-06-RE ✓
)	RearSamp	59	P17964	FRNC1D	C1020302-AFID PASS 2/7/06
21)	Sample	9	P17965	FRNC1D	C1020302 OK for DILUTIONS
22)	RearSamp	60	P17966	FRNC1D	0601070-01-AFID
23)	Sample	10	P17967	FRNC1D	DCM
24)	RearSamp	61	P17968	FRNC1D	0601070-02-AFID
25)	Sample	11	P17969	FRNC1D	DCM
26)	RearSamp	62	P17970	FRNC1D	0601070-03-AFID
27)	Sample	12	P17971	FRNC1D	SS012606B19 - rerun
28)	RearSamp	63	P17972	FRNC1D	0601070-05-AFID
29)	Sample	13	P17973	FRNC1D	SS012606LCS05 - rerun
30)	RearSamp	64	P17974	FRNC1D	0601070-07-AFID
31)	Sample	14	P17975	FRNC1D	SS012606LCSD05 - rerun
32)	Pause				
33)	RearSamp	64	P17975A	FRNC1D	0601070-07-AFID
34)	Sample	1	P17975B	FRNC1D	PAH STD
35)	RearSamp	99	P17975C	FRNC1D	DCM-AFID
36)	Sample	9	P17975D	FRNC1D	C1020302A PASS
37)	RearSamp	99	P17975E	FRNC1D	DCM-AFID
38)	Sample	100	P17975F	FRNC1D	0601070-09D-RE ✓
39)	RearSamp	65	P17976	FRNC1D	0601070-08-AFID
40)	Sample	15	P17977	FRNC1D	0601070-01-RE ✓
41)	RearSamp	66	P17978	FRNC1D	0601070-09-AFID
42)	Sample	16	P17979	FRNC1D	0601070-02-RE ✓
43)	RearSamp	67	P17980	FRNC1D	0601070-09D-AFID

✓ unused

MS 2/6/06

PAH #1 Sequence Information

SHC Continuing Calibration: WHAC10 Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: HC11005.M PAH Process Method: PAH10104.M

Sequence Name: C:\MSDCHEM\1\SEQUENCE\S1020301.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	17	P17981	FRNC1D	0601070-05-RE ✓
45)	RearSamp	68	P17982	FRNC1D	0601073-01-AFID
46)	Sample	18	P17983	FRNC1D	C1020303 PASS
[illegible])	RearSamp	69	P17984	FRNC1D	0601073-02-AFID
[illegible])	Sample	19	P17985	FRNC1D	0601070-03 ✓
49)	RearSamp	70	P17986	FRNC1D	0601073-03-AFID
50)	Sample	20	P17987	FRNC1D	0601070-07 ✓
51)	RearSamp	71	P17988	FRNC1D	0601073-04-AFID
52)	Sample	21	P17989	FRNC1D	0601070-08 ✓
53)	RearSamp	72	P17990	FRNC1D	0601073-04D-AFID
54)	Sample	22	P17991	FRNC1D	0601070-09 ✓
55)	RearSamp	73	P17992	FRNC1D	C1020303-AFID PASS [illegible]
56)	Sample	23	P17993	FRNC1D	0601070-09D ✓
57)	RearSamp	74	P17994	FRNC1D	DCM-AFID
58)	Sample	24	P17995	FRNC1D	C1020304 PASS
59)	RearSamp	75	P17996	FRNC1D	DCM-AFID
60)	Sample	25	P17997	FRNC1D	DCM

✓ Run [illegible].

[illegible] for H 2/6/06

Sequence Name: C:\MSDChem\1\sequence\S1020801.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\FEBRUARY06\FEB08\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

2/10/06

Line					Sample Name/Misc Info
1)	Debug				
2)	DualTwr				
3)	SepGC1				
4)	RearSamp	51	P18044	FRNC1D	ALK STD
5)	Sample	1	P18045	FRNC1D	PAH STD
6)	RearSamp	52	P18046	FRNC1D	C1020801-AFID ✗
7)	Sample	2	P18047	FRNC1D	C1020801 PASS
8)	RearSamp	53	P18048	FRNC1D	ANS1020801-AFID ✗
9)	Sample	3	P18049	FRNC1D	ANS1020801
10)	RearSamp	54	P18050	FRNC1D	DCM-AFID ✗
11)	Sample	4	P18051	FRNC1D	DCM
12)	RearSamp	55	P18052	FRNC1D	DCM-AFID ✗
13)	Sample	5	P18053	FRNC1D	DCM
14)	RearSamp	56	P18054	FRNC1D	DCM-AFID ✗
15)	Sample	6	P18055	FRNC1D	SS020106B11 ✓
16)	RearSamp	57	P18056	FRNC1D	SS020106B11-AFID ✗
17)	Sample	7	P18057	FRNC1D	SS020106LCS ✓
18)	RearSamp	58	P18058	FRNC1D	SS020106LCS-AFID ✗
19)	Sample	8	P18059	FRNC1D	SS020106LCSD ✓
20)	RearSamp	59	P18060	FRNC1D	SS020106LCSD-FID ✗
21)	Sample	9	P18061	FRNC1D	0601070-04-RE2 ✓
22)	RearSamp	60	P18062	FRNC1D	0601070-04-AFID ✗
23)	Sample	10	P18063	FRNC1D	0601070-06-RE2 ✓
24)	RearSamp	61	P18064	FRNC1D	0601070-06-AFID ✗
25)	Sample	11	P18065	FRNC1D	0601070-04-RE ✓
26)	RearSamp	62	P18066	FRNC1D	0602004-01-AFID ✗
27)	Sample	12	P18067	FRNC1D	0601070-06-RE ✓
28)	RearSamp	63	P18068	FRNC1D	0602004-02-AFID ✗
29)	Sample	13	P18069	FRNC1D	C1020802 PASS
30)	RearSamp	64	P18070	FRNC1D	0602004-03-AFID ✗
31)	Sample	14	P18071	FRNC1D	0602004-04-RE ✓
32)	RearSamp	65	P18072	FRNC1D	C1020802-AFID ✗
33)	Sample	15	P18073	FRNC1D	0602004-04D-RE ✓
34)	RearSamp	66	P18074	FRNC1D	DCM-AFID ✗
35)	Sample	16	P18075	FRNC1D	0602004-03-RE ✓
36)	RearSamp	67	P18076	FRNC1D	SS020606B06-AFID ✗
37)	Sample	17	P18077	FRNC1D	0602004-01-RE
38)	RearSamp	68	P18078	FRNC1D	
39)	Sample	18	P18079	FRNC1D	0602004-02-RE ✓
40)	RearSamp	69	P18080	FRNC1D	
41)	Sample	19	P18081	FRNC1D	0602004-05-RE ✓
42)	RearSamp	70	P18082	FRNC1D	
43)	Sample	20	P18083	FRNC1D	0602004-06-RE ✓

✓ run used

✗ = instrument contamination for FID re-analyze

MS 2/14/06

PAH #1 Sequence Information

SHC Continuing Calibration: WHAC10 Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: HC11005.M PAH Process Method: PAH10104.M

Last Modified: Fri

Sequence Name: C:\MSDChem\1\sequence\S1020801.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	RearSamp	71	P18084	FRNC1D	
45)	Sample	21	P18085	FRNC1D	0602004-07-RE ✓
[illegible]	RearSamp	72	P18086	FRNC1D	
[illegible]	Sample	22	P18087	FRNC1D	0602004-08-RE ✓
48)	RearSamp	73	P18088	FRNC1D	
49)	Sample	23	P18089	FRNC1D	0602004-09-RE ✓
50)	RearSamp	74	P18090	FRNC1D	
51)	Sample	24	P18091	FRNC1D	0602004-9D-RE ✓
52)	RearSamp	75	P18092	FRNC1D	
53)	Sample	25	P18093	FRNC1D	C1020803 PASS
54)	RearSamp	76	P18094	FRNC1D	
55)	Sample	26	P18095	FRNC1D	0602004-10-RE ✓
56)	RearSamp	77	P18096	FRNC1D	
57)	Sample	27	P18097	FRNC1D	0602004-11-RE
58)	RearSamp	77	P18098	FRNC1D	
59)	Sample	28	P18099	FRNC1D	0602004-12-RE ✓
60)	RearSamp	77	P18100	FRNC1D	
61)	Sample	29	P18101	FRNC1D	0602004-13-RE ✓
62)	RearSamp	77	P18102	FRNC1D	
63)	Sample	30	P18103	FRNC1D	0602004-14-RE ✓
64)	RearSamp	77	P18104	FRNC1D	
65)	Sample	31	P18105	FRNC1D	0602004-05-RE ✓
66)	RearSamp	78	P18106	FRNC1D	
67)	Sample	32	P18107	FRNC1D	0602004-02-RE ✓
68)	Pause				
69)	RearSamp	51	P18108	FRNC1D	C1021001-AFID - FID RESTART. PASS 2/14/06
70)	Sample	33	P18109	FRNC1D	C1020804 PASS
71)	RearSamp	52	P18110	FRNC1D	DCM-AFID IB102080601 2/14/06
72)	Sample	34	P18111	FRNC1D	DCM
73)	RearSamp	53	P18112	FRNC1D	DCM-AFID
74)	Sample	35	P18113	FRNC1D	DCM
75)	RearSamp	54	P18114	FRNC1D	SS020106B11-AFID
[illegible]	Sample	36	P18115	FRNC1D	SS020606B06 ✓
[illegible]	RearSamp	55	P18116	FRNC1D	SS020606B06-AFID
78)	Sample	37	P18117	FRNC1D	SS020606LCS04 ✓
79)	RearSamp	56	P18118	FRNC1D	SS020106LCS04-AFID run used
80)	Sample	38	P18119	FRNC1D	SS020606LCSD05 ✓
81)	RearSamp	57	P18120	FRNC1D	SS020106LCSD04
82)	Sample	39	P18121	FRNC1D	0602004-01 ✓
83)	RearSamp	58	P18122	FRNC1D	SS020606LCS04-AFID - Realumina + RERun 2/16/06
84)	Sample	40	P18123	FRNC1D	0602004-03 ✓
85)	RearSamp	59	P18124	FRNC1D	SS020606LCSD05-AFID
86)	Sample	41	P18125	FRNC1D	0602004-04 ✓
87)	RearSamp	60	P18126	FRNC1D	C1021002-AFID PASS 2/14/06
88)	Sample	42	P18127	FRNC1D	0602004-04D ✓
89)	RearSamp	61	P18128	FRNC1D	DCM-AFID
90)	Sample	43	P18129	FRNC1D	0602004-06 ✓
91)	RearSamp	62	P18130	FRNC1D	0601070-04-AFID
92)	Sample	44	P18131	FRNC1D	0602004-07 ✓
93)	RearSamp	63	P18132	FRNC1D	0601070-06-AFID
94)	Sample	45	P18133	FRNC1D	0602004-08 ✓
95)	RearSamp	64	P18134	FRNC1D	0602004-01-AFID
96)	Sample	46	P18135	FRNC1D	- C1020805 PASS ~~[illegible]~~

MS 2/14/06

Sequence Name: C:\MSDChem\1\sequence\S1020801.S

	Line Type	Vial	DataFile	Method	Sample Name
97)	RearSamp	65	P18136	FRNC1D	0602004-02-AFID
98)	Sample	47	P18137	FRNC1D	DCM
[illegible])	RearSamp	66	P18138	FRNC1D	0602004-03-AFID
1[illegible])	Sample	48	P18139	FRNC1D	0602004-09✓
101)	RearSamp	67	P18140	FRNC1D	0602004-04-AFID
102)	Sample	49	P18141	FRNC1D	0602004-09D✓
103)	RearSamp	68	P18142	FRNC1D	0602004-04D-AFID
104)	Sample	50	P18143	FRNC1D	0602004-10✓
105)	RearSamp	69	P18144	FRNC1D	0602004-05-AFID
106)	Sample	1	P18145	FRNC1D	0602004-11✓
107)	RearSamp	70	P18146	FRNC1D	0602004-06-AFID
108)	Sample	2	P18147	FRNC1D	0602004-12✓
109)	RearSamp	71	P18148	FRNC1D	C1021003-AFID PASS 2/14/06 ✓ run used
110)	Sample	3	P18149	FRNC1D	0602004-13✓
111)	RearSamp	72	P18150	FRNC1D	DCM-AFID
112)	Sample	4	P18151	FRNC1D	0602004-14✓
113)	RearSamp	73	P18152	FRNC1D	0602004-07-AFID
114)	Sample	5	P18153	FRNC1D	C1020806 PASS
115)	RearSamp	74	P18154	FRNC1D	0602004-08-AFID
116)	Sample	6	P18155	FRNC1D	DCM
117)	RearSamp	75	P18156	FRNC1D	0602004-09-AFID
118)	Sample	6	P18157	FRNC1D	
119)	RearSamp	76	P18158	FRNC1D	0602004-09D-AFID
120)	Sample	5	P18159	FRNC1D	
121)	RearSamp	77	P18160	FRNC1D	0602004-10-AFID
122)	Sample	6	P18161	FRNC1D	
123)	RearSamp	78	P18162	FRNC1D	0602004-11-AFID
124)	Sample	5	P18163	FRNC1D	
125)	RearSamp	79	P18164	FRNC1D	0602004-12-AFID
126)	Sample	6	P18165	FRNC1D	
127)	RearSamp	80	P18166	FRNC1D	0602004-13-AFID
128)	Sample	5	P18167	FRNC1D	
1[illegible])	RearSamp	81	P18168	FRNC1D	0602004-14-AFID
1[illegible])	Sample	6	P18169	FRNC1D	
131)	RearSamp	82	P18170	FRNC1D	C1021004-AFID
132)	Sample	5	P18171	FRNC1D	
133)	RearSamp	83	P18172	FRNC1D	DCM
134)	Sample	6	P18173	FRNC1D	
135)	RearSamp	84	P18174	FRNC1DF	BAF D12
136)	Sample	7	P18175	FRNC1DF	0602024-01

MLS 2/14/06

Sequence Name: C:\MSDChem\1\sequence\S1021301.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\FEBRUARY06\FEB13\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

2/15/06

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line					Sample Name/Misc Info
1)	Debug				
2)	DualTwr				
3)	SepGC1				
4)	RearSamp	51	P18176	FRNC1D	ALK STD
5)	Sample	1	P18177	FRNC1D	PAH STD
6)	RearSamp	52	P18178	FRNC1D	C1021301-AFID
7)	Sample	2	P18179	FRNC1D	C1021301 PASS
8)	RearSamp	53	P18180	FRNC1D	~~ANS1021301-AFID~~ TS021506AWS02 2/15/06 RPR
9)	Sample	3	P18181	FRNC1D	ANS1021301
10)	RearSamp	54	P18182	FRNC1D	DCM-AFID
11)	Sample	4	P18183	FRNC1D	DCM
12)	RearSamp	55	P18184	FRNC1D	~~DCM-AFID~~ IB102130601 2/15/06 RPR
13)	Sample	5	P18185	FRNC1D	SS020606LCS04 ✓
14)	RearSamp	56	P18186	FRNC1D	SS020606LCS04-AFID
15)	Sample	6	P18187	FRNC1D	C1021302 not needed
16)	RearSamp	57	P18188	FRNC1D	C1021302-AFID ✓ run used
17)	Sample	7	P18189	FRNC1D	0602017-01 ✓
18)	RearSamp	58	P18190	FRNC1D	DCM-AFID
19)	Sample	8	P18191	FRNC1D	0602017-01D ✓
20)	RearSamp	59	P18192	FRNC1D	ALUMINA CHECK-AFID
21)	Sample	9	P18193	FRNC1D	0602017-02 ✓
22)	RearSamp	60	P18194	FRNC1D	SO020906B23-AFID
23)	Sample	10	P18195	FRNC1D	C1021303 PASS
24)	RearSamp	61	P18196	FRNC1D	SO020906LCS17-AFID
25)	Sample	11	P18197	FRNC1D	DCM
26)	RearSamp	62	P18198	FRNC1D	SO020906LCS15-AFID
27)	Sample	25	P18199	FRNC1D	DCM
28)	Pause				
29)	RearSamp	63	P18200	FRNC1D	0602017-01-AFID
30)	Sample	12	P18201	FRNC1D	SO020906B23 ✓
31)	Pause				
32)	RearSamp	64	P18202	FRNC1D	DCM
33)	Sample	13	P18203	FRNC1D	0602017-01-RE see rerun
34)	Pause				
35)	RearSamp	64	P18203A	FRNC1D	DCM
36)	Sample	13	P18203B	FRNC1D	0602017-01-RE
37)	RearSamp	65	P18204	FRNC1D	DCM
38)	Sample	14	P18205	FRNC1D	0602017-01D-RE ✓
39)	RearSamp	66	P18206	FRNC1D	DCM
40)	Sample	15	P18207	FRNC1D	0602017-02-RE ✓
41)	RearSamp	67	P18208	FRNC1D	DCM-AFID
42)	Sample	16	P18209	FRNC1D	SO020906LCS17 ✓
43)	RearSamp	68	P18210	FRNC1D	DCM-AFID

MS 2/15/06

PAH #1 Sequence Information

SHC Continuing Calibration: WHAC10 ✓ Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 ✓ Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 ✓ Conc.: 5.096mg/mL

FID Process Method: HC11005.M ✓ PAH Process Method: PAH10104.M ✓

Last Modified: Tue Feb 14 13:58:12 2006

QUALITY CONTROL RESULTS

Form IV
Method Blank Summary
Total Saturated Hydrocarbons by GC/FID

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS012606B19**
Date Analyzed: **02/03/06 18:10**

Client ID	Lab ID	Date/Time Analyzed
LCS	SS012606LCS05	02/03/06 21:22
LCSD	SS012606LCSD05	02/03/06 22:57
GC-SED-46C (5-5.5)	0601070-01	02/04/06 05:14
GC-SED-45C (1-1.5)	0601070-02	02/04/06 06:47
GC-SED-55 (1.5-2.5)	0601070-03	02/04/06 08:20
GC-SED-49 (10-11)	0601070-05	02/04/06 09:55
GC-SED-78B (2.5-5)	0601070-07	02/04/06 12:35
GC-SED-76C (2.5-3.4)	0601070-08	02/04/06 17:21
GC-SED-75C (0-0.7)	0601070-09	02/04/06 18:55
GC-SED-75C (0-0.7)	0601070-09 D	02/04/06 20:30

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form IV
Method Blank Summary
Total Saturated Hydrocarbons by GC/FID

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **SS020606B06**
Date Analyzed: **02/10/06 23:33**

Client ID	Lab ID	Date/Time Analyzed
LCSD	SS020606LCSD05	02/11/06 05:49
GC-SED-47 (1.5-2.5)	0601070-04	02/11/06 10:29
GC-SED-48 (5-5.8)	0601070-06	02/11/06 12:04
LCS	SS020606LCS04	02/13/06 23:10

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Sequence Name: C:\MSDChem\1\sequence\S1100501.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\October\OCT05\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info				
1)	DualTwr				
2)	SepGC1				
3)	RearSamp	51	P15860	FRNC1D	C1100501-AFID
4)	Sample	1	P15861	FRNC1D	C1100501
5)	RearSamp	99	P15861A	FRNC1D	QC WHAB68-AFID
6)	Sample	100	P15861B	FRNC1D	QC WHAB68
7)	RearSamp	52	P15862	FRNC1D	ANS1100501-AFID TO101705AWS01
8)	Sample	2	P15863	FRNC1D	ANS1100501
9)	RearSamp	53	P15864	FRNC1D	DCM-AFID
10)	Sample	3	P15865	FRNC1D	DCM-AFID
11)	RearSamp	54	P15866	FRNC1D	I1100501-AFID
12)	Sample	4	P15867	FRNC1D	SO100505B02
13)	RearSamp	55	P15868	FRNC1D	I1100502-AFID
14)	Sample	5	P15869	FRNC1D	SO100505LCS01
15)	RearSamp	56	P15870	FRNC1D	I1100503-AFID
16)	Sample	6	P15871	FRNC1D	SO100505LCSD01
17)	RearSamp	57	P15872	FRNC1D	I1100504-AFID
18)	Sample	7	P15873	FRNC1D	0509124-01
19)	RearSamp	58	P15874	FRNC1D	I1100505-AFID
	Sample	8	P15875	FRNC1D	0509124-02
21)	RearSamp	59	P15876	FRNC1D	Q1100501-AFID
22)	Sample	9	P15877	FRNC1D	0509124-02D
23)	RearSamp	60	P15878	FRNC1D	DCM-AFID IB110050501
24)	Sample	10	P15879	FRNC1D	0509124-03
25)	RearSamp	61	P15880	FRNC1D	SO100505B02-AFID
26)	Sample	11	P15881	FRNC1D	0509124-04
27)	RearSamp	62	P15882	FRNC1D	SO100505LCS01-AFID
28)	Sample	12	P15883	FRNC1D	0509124-05
29)	RearSamp	63	P15884	FRNC1D	SO100505LCSD01-AFID
30)	Sample	15	P15885	FRNC1D	C1100502
31)	Pause				
32)	RearSamp	64	P15886	FRNC1D	0509124-01-AFID
33)	Sample	13	P15887	FRNC1D	0509124-06
34)	RearSamp	65	P15888	FRNC1D	0509124-02-AFID re-analyze flame-out
35)	Sample	14	P15889	FRNC1D	0509124-09

FID Process Method: HC11005.M

Response Factor Report PAH-1

Method Path : C:\MSDCHEM\1\METHODS\
Method File : HC11005.M
Title : FID Forensics
Last Update : Fri Oct 14 16:49:01 2005
Response Via : Initial Calibration

Calibration Files
1 =P15866.D 10 =P15868.D 50 =P15870.D
100 =P15872.D 200 =P15874.D

10/21/05

		Compound	1	10	50	100	200	Avg	%RSD
1)	I	5-alpha-androstane	----------ISTD----------						
2)	t	n-Octane (C8)	0.806	0.820	0.805	0.797	0.802	0.806	1.04
3)	t	n-Nonane (C9)	0.949	0.897	0.876	0.860	0.862	0.889	4.12
4)	t	n-Decane (C10)	0.968	0.916	0.899	0.886	0.888	0.911	3.74
5)	t	n-Undecane (C11)	0.983	0.925	0.908	0.898	0.899	0.923	3.86
6)	t	n-Dodecane (C12)	0.987	0.945	0.930	0.920	0.920	0.940	2.97
7)	t	n-Tridecane (C13)	1.003	0.959	0.940	0.931	0.929	0.953	3.20
8)	t	1380	1.022	0.977	0.954	0.945	0.942	0.968	3.44
9)	t	n-Tetradecane (C14)	1.022	0.977	0.954	0.945	0.942	0.968	3.44
10)	t	1470	1.051	0.988	0.960	0.953	0.948	0.980	4.33
11)	t	n-Pentadecane (C15)	1.051	0.988	0.960	0.953	0.948	0.980	4.33
12)	t	n-Hexadecane (C16)	1.068	0.998	0.966	0.961	0.953	0.989	4.79
13)	t	1650	1.088	1.010	0.976	0.971	0.963	1.002	5.17
14)	t	n-Heptadecane (C17)	1.088	1.010	0.976	0.971	0.963	1.002	5.17
15)	t	Pristane	1.035	0.968	0.934	0.928	0.919	0.957	4.98
16)	t	n-Octadecane (C18)	1.085	1.015	0.980	0.975	0.966	1.004	4.87
17)	t	Phytane	1.071	1.010	0.973	0.967	0.956	0.996	4.70
18)	t	n-Nonadecane (C19)	1.075	1.009	0.975	0.970	0.960	0.998	4.71
19)	s	ortho-terphenyl	1.230	1.080	1.044	1.036	1.029	1.084	7.74
20)	t	n-Eicosane (C20)	1.076	1.007	0.971	0.966	0.955	0.995	4.94
21)	t	n-Heneicosane (C21)	1.108	1.038	1.003	0.998	0.987	1.027	4.82
22)	t	n-Docosane (C22)	1.096	1.026	0.989	0.985	0.974	1.014	4.92
23)	t	n-Tricosane (C23)	1.103	1.033	0.996	0.992	0.981	1.021	4.90
24)	s	d50-Tetracosane	1.370	0.906	0.871	0.860	0.850	0.971	23.02
25)	t	n-Tetracosane (C24)	1.134	1.042	1.003	1.000	0.988	1.033	5.77
26)	t	n-Pentacosane (C25)	1.195	1.039	1.001	0.997	0.982	1.043	8.41
27)	t	n-Hexacosane (C26)	1.104	1.031	0.993	0.988	0.976	1.018	5.12
28)	t	n-Heptacosane (C27)	1.095	1.028	0.990	0.986	0.974	1.015	4.87
29)	t	n-Octacosane (C28)	1.126	1.042	1.003	0.999	0.986	1.031	5.51
30)	t	n-Nonacosane (C29)	1.146	1.066	1.027	1.022	1.009	1.054	5.27
31)	t	n-Triacontane (C30)	1.111	1.047	1.010	1.006	0.992	1.033	4.63
32)	t	n-Hentriacontane (C31	1.068	1.014	0.980	0.975	0.962	1.000	4.28
33)	t	n-Dotriacontane (C32)	1.083	1.022	0.988	0.982	0.968	1.009	4.57
34)	t	n-Tritriacontane (C33	1.075	1.037	1.004	0.997	0.983	1.019	3.63
35)	t	n-tetratriacontane (C	1.100	1.051	1.020	1.011	0.997	1.035	3.96
36)	t	n-Pentatriacontane (C	1.058	1.011	0.981	0.971	0.958	0.996	4.00
37)	t	n-Hexatriacontane (C3	1.109	1.037	1.006	0.996	0.983	1.026	4.91
38)	t	n-Heptatriacontane (C	1.207	1.106	1.076	1.066	1.052	1.101	5.65
39)	t	n-Octatriacontane (C3	1.108	1.046	1.019	1.008	0.996	1.035	4.32
40)	t	n-Nonatriacontane (C3	1.125	1.032	1.004	0.993	0.981	1.027	5.63
41)	t	n-Tetracontane (C40)	1.125	1.032	1.004	0.993	0.981	1.027	5.63
42)	h	C9-C40 Total Petroleu	1.079	1.011	0.980	0.973	0.963	1.001	4.71
43)	h	C10-C28 DRO	1.079	1.011	0.980	0.973	0.963	1.001	4.71
44)	h	Total Resolved Hydroc	1.079	1.011	0.980	0.973	0.963	1.001	4.71

(#) = Out of Range

ICAL ID: HC11005.M

Component	Responses				
	Level 1	Level 2	Level 3	Level 4	Level 5
n-Nonane (C9)	1132015	10498459	52246830	102781405	202095631
n-Decane (C10)	1155072	10723181	53586773	105828639	208061331
n-Undecane (C11)	1173119	10830002	54155791	107262086	210776366
n-Dodecane (C12)	1177197	11057060	55435782	109922584	215654778
n-Tridecane (C13)	1196618	11218029	56082608	111269393	217880200
n-Tetradecane (C14)	1219535	11427634	56897814	112957898	220715268
n-Pentadecane (C15)	1253265	11564851	57257602	113904133	222156659
n-Hexadecane (C16)	1274311	11678982	57598544	114781277	223476831
n-Heptadecane (C17)	1298169	11824086	58193939	115955930	225671657
Pristane	1235036	11330485	55683946	110888857	215367907
n-Octadecane (C18)	1294491	11874715	58446412	116514868	226439101
Phytane	1277504	11821363	58043709	115535600	224131538
n-Nonadecane (C19)	1282336	11812345	58140407	115911503	224970843
n-Eicosane (C20)	1283179	11781964	57889024	115449228	223880202
n-Heneicosane (C21)	1322085	12145610	59789282	119222290	231304721
n-Docosane (C22)	1307258	12005057	58983404	117660808	228237623
n-Tricosane (C23)	1316106	12085831	59391641	118506145	229853494
n-Tetracosane (C24)	1352536	12189791	59836684	119466359	231618014
n-Pentacosane (C25)	1425786	12158420	59689553	119085255	230257861
n-Hexacosane (C26)	1317424	12060114	59206913	118092843	228835118
n-Heptacosane (C27)	1306656	12032957	59061691	117826940	228244100
n-Octacosane (C28)	1342650	12196722	59812490	119359729	231104479
n-Nonacosane (C29)	1366537	12473008	61236479	122129756	236435398
n-Triacontane (C30)	1325208	12252816	60258513	120202182	232590130
n-Hentriacontane (C31)	1274172	11869820	58452135	116492164	225434305
n-Dotriacontane (C32)	1291994	11960160	58925133	117329937	226936670
n-Tritriacontane (C33)	1282666	12138837	59891857	119115966	230463854
n-tetratriacontane (C34)	1311738	12298617	60797520	120764189	233629218
n-Pentatriacontane (C35)	1262402	11832639	58493593	116069115	224668006
n-Hexatriacontane (C36)	1322662	12132652	59965402	118986963	230449861
n-Heptatriacontane (C37)	1439482	12938023	64168897	127310647	246520015
n-Octatriacontane (C38)	1321938	12243108	60781159	120446610	233388724
n-Tetracontane (C40)	1341970	12077082	59895920	118679810	230023588

Range	Average Response				
	Level 1	Level 2	Level 3	Level 4	Level 5
C9-C40 Total Petroleum Hydrocarbons	1287367	11834376	58433256	116233670	225796166
C10-C28 DRO	1287367	11834376	58433256	116233670	225796166
Total Resolved Hydrocarbons	1287367	11834376	58433256	116233670	225796166

Quantitation Report (QT Reviewed)

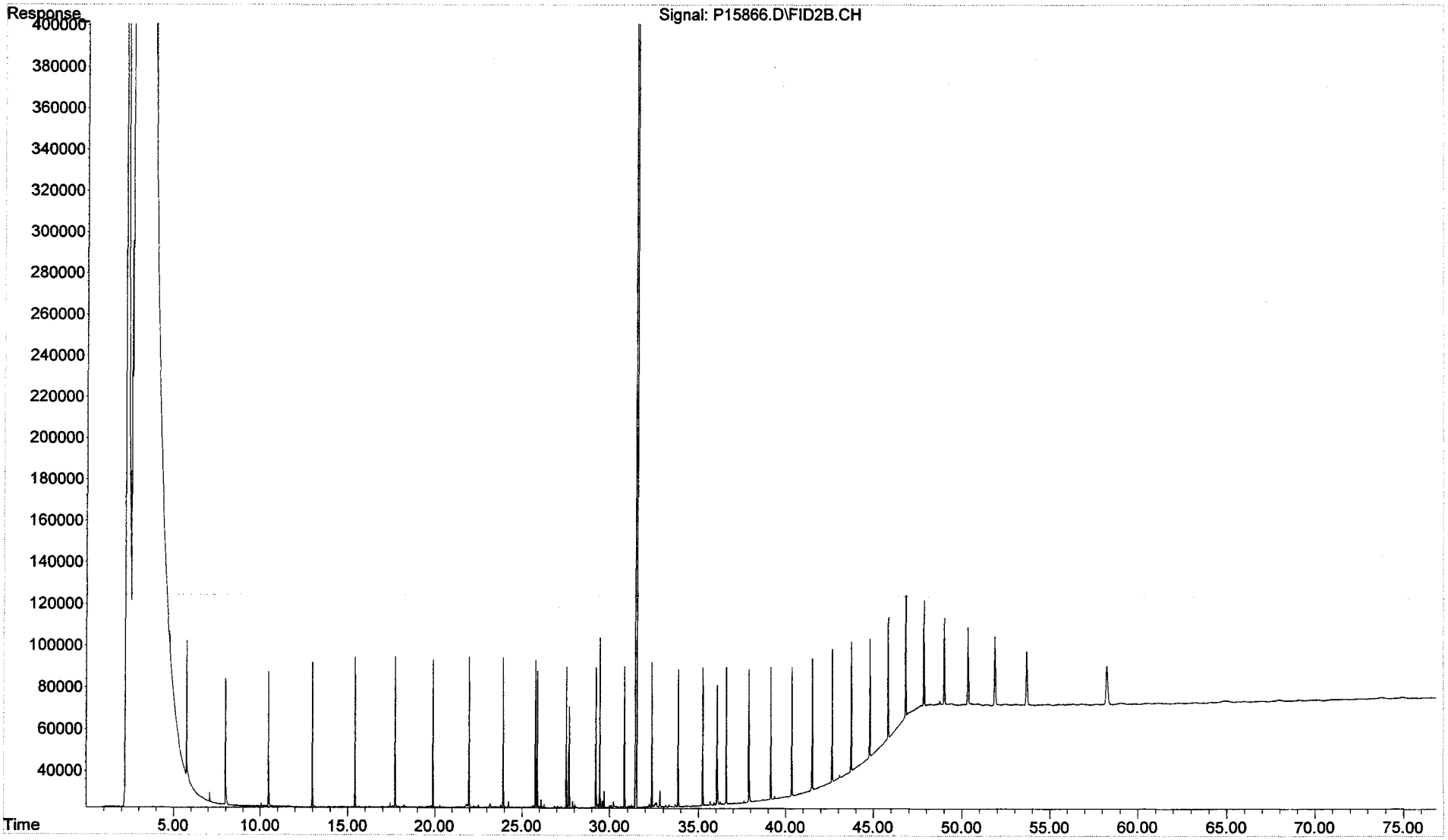
Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15866.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 5:25 pm
Operator : AC
Sample : I1100501-AFID
Misc : WHAB29
ALS Vial : 54 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 10 21:14:48 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Mon Oct 10 21:02:32 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.50	59645108	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.46	1466887	1.136 ug/mL
Spiked Amount 50.000	Range 50 - 130	Recovery =	2.27%#
24) s d50-Tetracosane	36.07	1633831	1.417 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	2.83%#
Target Compounds			
2) t n-Octane (C8)	5.76f	961986	0.936 ug/mLm
3) t n-Nonane (C9)	7.99	1132015	1.028 ug/mL
4) t n-Decane (C10)	10.48	1155072	1.033 ug/mLm
5) t n-Undecane (C11)	13.00	1173119	1.045 ug/mLm
6) t n-Dodecane (C12)	15.42	1177197	1.032 ug/mLm
7) t n-Tridecane (C13)	17.73	1196618	1.041 ug/mLm
9) t n-Tetradecane (C14)	19.91	1219535	1.045 ug/mLm
11) t n-Pentadecane (C15)	21.98	1253265	1.065 ug/mLm
12) t n-Hexadecane (C16)	23.93	1274311	1.078 ug/mLm
14) t n-Heptadecane (C17)	25.79	1298169	1.086 ug/mLm
15) t Pristane	25.90	1235036	1.082 ug/mLm
16) t n-Octadecane (C18)	27.55	1294491	1.079 ug/mL
17) t Phytane	27.71	1277504	1.075 ug/mL
18) t n-Nonadecane (C19)	29.24	1282336	1.080 ug/mL
20) t n-Eicosane (C20)	30.84	1283179	1.085 ug/mL
21) t n-Heneicosane (C21)	32.37	1322085	1.085 ug/mLm
22) t n-Docosane (C22)	33.84f	1307258	1.084 ug/mLm
23) t n-Tricosane (C23)	35.25	1316106	1.084 ug/mLm
25) t n-Tetracosane (C24)	36.61	1352536	1.102 ug/mL
26) t n-Pentacosane (C25)	37.91	1425786	1.163 ug/mLm
27) t n-Hexacosane (C26)	39.16	1317424	1.091 ug/mLm
28) t n-Heptacosane (C27)	40.37	1306656	1.086 ug/mLm
29) t n-Octacosane (C28)	41.54	1342650	1.103 ug/mLm
30) t n-Nonacosane (C29)	42.66	1366537	1.096 ug/mLm
31) t n-Triacontane (C30)	43.75	1325208	1.084 ug/mLm
32) t n-Hentriacontane (C31)	44.81	1274172	1.076 ug/mLm
33) t n-Dotriacontane (C32)	45.83	1291994	1.087 ug/mLm
34) t n-Tritriacontane (C33)	46.83	1282666	1.064 ug/mLm
35) t n-tetratriacontane (C34)	47.85	1311738	1.079 ug/mLm
36) t n-Pentatriacontane (C35)	49.02	1262402	1.079 ug/mLm
37) t n-Hexatriacontane (C36)	50.35	1322662	1.106 ug/mLm
38) t n-Heptatriacontane (C37)	51.88	1439482	1.125 ug/mL
39) t n-Octatriacontane (C38)	53.68	1321938	1.096 ug/mLm
41) t n-Tetracontane (C40)	58.28	1341970	1.134 ug/mLm

File :C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\P15866.D
Operator : AC
Acquired : 05 Oct 2005 5:25 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: I1100501-AFID
Misc Info : WHAB29
Vial Number: 54



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15868.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 7:02 pm
Operator : AC
Sample : I1100502-AFID
Misc : WHAB30
ALS Vial : 55 Sample Multiplier: 1

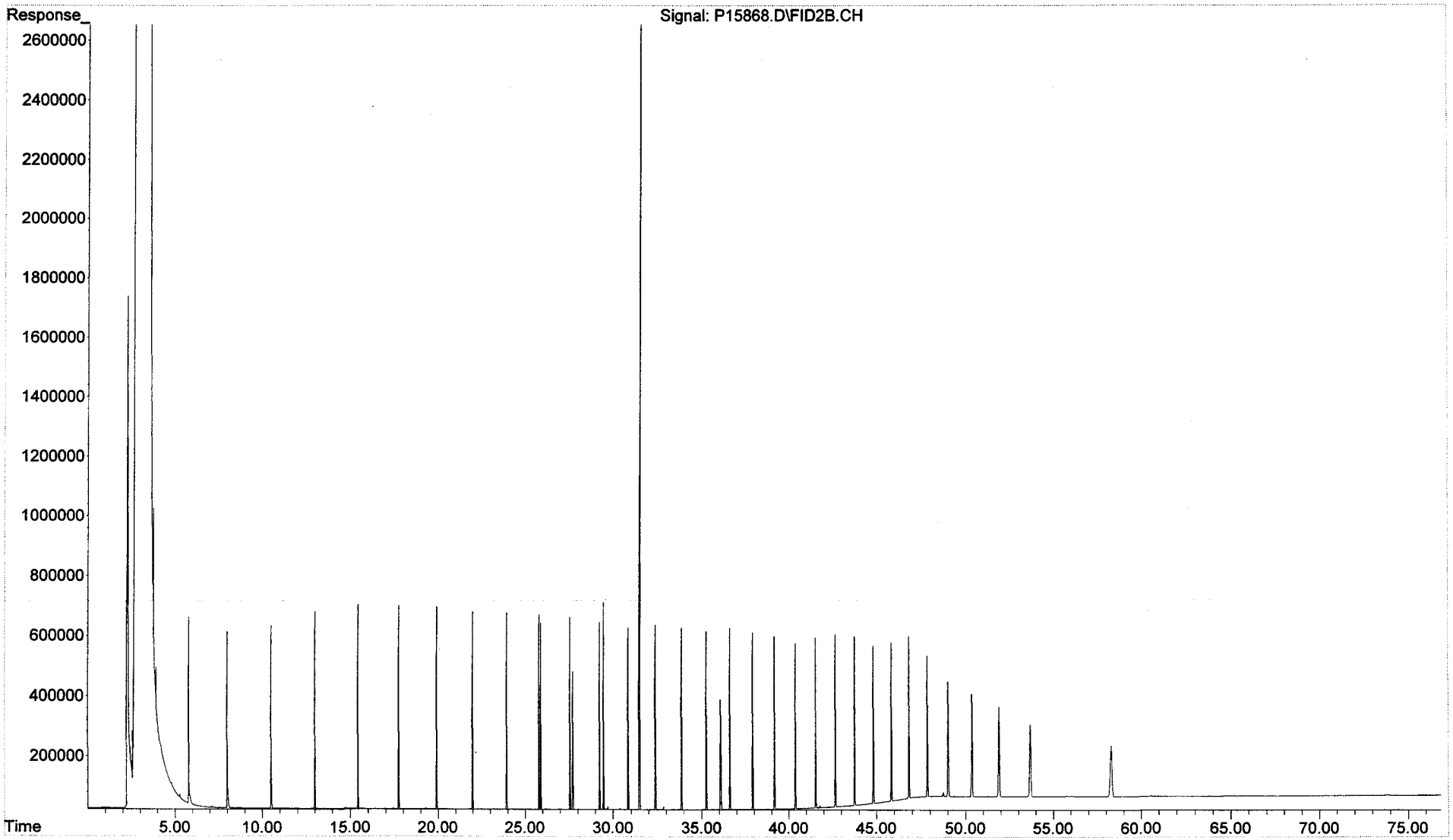
Integration File: SHCINT1.E
Quant Time: Oct 10 21:13:37 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Mon Oct 10 21:07:37 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

10/18/05

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.50	58512810	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.47	12641342	9.966 ug/mL
Spiked Amount	50.000	Range 50 - 130	Recovery =	19.93%#
24) s	d50-Tetracosane	36.08	10600586	9.339 ug/mLm
Spiked Amount	50.000	Range 50 - 130	Recovery =	18.68%#
	Target Compounds			
2) t	n-Octane (C8)	5.77f	9591339	9.752 ug/mLm
3) t	n-Nonane (C9)	8.00	10498459	9.810 ug/mL
4) t	n-Decane (C10)	10.49	10723181	9.826 ug/mLm
5) t	n-Undecane (C11)	13.00	10830002	9.859 ug/mLm
6) t	n-Dodecane (C12)	15.43	11057060	9.916 ug/mLm
7) t	n-Tridecane (C13)	17.74	11218029	9.969 ug/mLm
9) t	n-Tetradecane (C14)	19.92	11427634	10.015 ug/mLm
11) t	n-Pentadecane (C15)	21.98	11564851	10.029 ug/mL
12) t	n-Hexadecane (C16)	23.94	11678982	10.049 ug/mLm
14) t	n-Heptadecane (C17)	25.80	11824086	10.061 ug/mLm
15) t	Pristane	25.90	11330485	10.100 ug/mLm
16) t	n-Octadecane (C18)	27.56	11874715	10.093 ug/mL
17) t	Phytane	27.72	11821363	10.132 ug/mLm
18) t	n-Nonadecane (C19)	29.24	11812345	10.116 ug/mLm
20) t	n-Eicosane (C20)	30.85	11781964	10.126 ug/mLm
21) t	n-Heneicosane (C21)	32.38	12145610	10.118 ug/mL
22) t	n-Docosane (C22)	33.85f	12005057	0.950 ug/mLm
23) t	n-Tricosane (C23)	35.26	12085831	10.125 ug/mL
25) t	n-Tetracosane (C24)	36.61	12189791	10.092 ug/mLm
26) t	n-Pentacosane (C25)	37.92	12158420	9.975 ug/mLm
27) t	n-Hexacosane (C26)	39.17	12060114	10.142 ug/mLm
28) t	n-Heptacosane (C27)	40.38	12032957	10.155 ug/mLm
29) t	n-Octacosane (C28)	41.54	12196722	10.138 ug/mLm
30) t	n-Nonacosane (C29)	42.67	12473008	10.146 ug/mL
31) t	n-Triacontane (C30)	43.76	12252816	10.169 ug/mLm
32) t	n-Hentriacontane (C31)	44.82	11869820	10.185 ug/mL
33) t	n-Dotriacontane (C32)	45.84	11960160	10.186 ug/mLm
34) t	n-Tritriacontane (C33)	46.83	12138837	10.236 ug/mLm
35) t	n-tetratriacontane (C34)	47.86	12298617	10.242 ug/mLm
36) t	n-Pentatriacontane (C35)	49.03	11832639	10.243 ug/mLm
37) t	n-Hexatriacontane (C36)	50.36	12132652	10.225 ug/mL
38) t	n-Heptatriacontane (C37)	51.90	12938023	10.174 ug/mL
39) t	n-Octatriacontane (C38)	53.69	12243108	10.251 ug/mLm
41) t	n-Tetracontane (C40)	58.30	12077082	10.248 ug/mL

File :C:\MSDChem\1\DATA\PAH #1\OCT05.SEC\P15868.D
Operator : AC
Acquired : 05 Oct 2005 7:02 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: I1100502-AFID
Misc Info : WHAB30
Vial Number: 55



Quantitation Report (QT Reviewed)

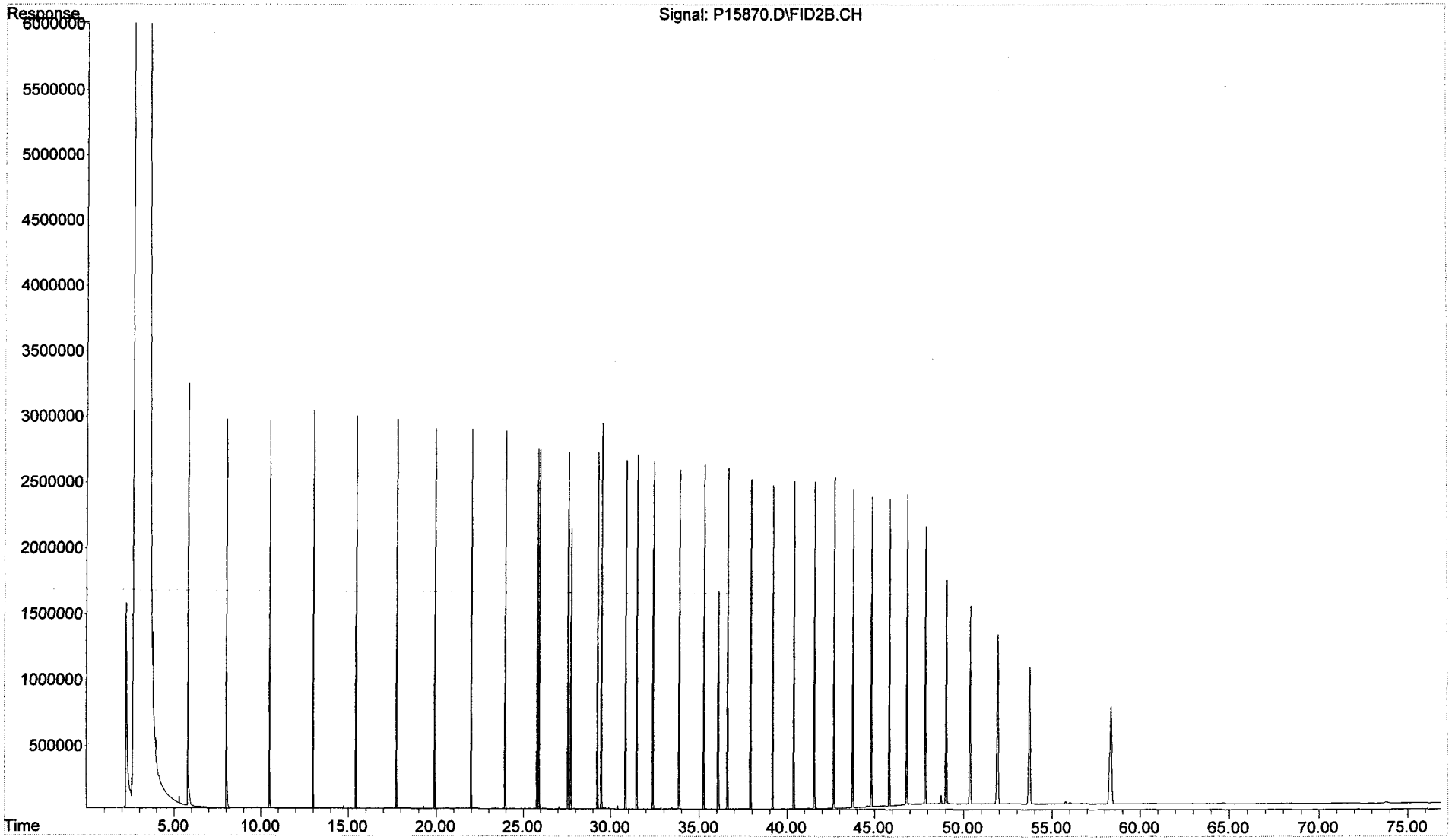
Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15870.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 8:37 pm
Operator : AC
Sample : I1100503-AFID
Misc : WHAB31
ALS Vial : 56 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 10 21:18:03 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Mon Oct 10 21:15:17 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.50	59634355	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.49	62270271	48.155 ug/mL
Spiked Amount	50.000	Range 50 - 130	Recovery =	96.31%
24) s	d50-Tetracosane	36.10	51941629	44.865 ug/mLm
Spiked Amount	50.000	Range 50 - 130	Recovery =	89.73%
	Target Compounds			
2) t	n-Octane (C8)	5.80	48029027	48.471 ug/mLm
3) t	n-Nonane (C9)	8.02	52246830	48.231 ug/mL
4) t	n-Decane (C10)	10.51	53586773	48.475 ug/mLm
5) t	n-Undecane (C11)	13.02	54155791	48.595 ug/mLm
6) t	n-Dodecane (C12)	15.45	55435782	48.969 ug/mL
7) t	n-Tridecane (C13)	17.76	56082608	49.037 ug/mLm
9) t	n-Tetradecane (C14)	19.94	56897814	49.039 ug/mL
11) t	n-Pentadecane (C15)	22.00	57257602	48.800 ug/mL
12) t	n-Hexadecane (C16)	23.96	57598544	48.675 ug/mL
14) t	n-Heptadecane (C17)	25.82	58193939	48.603 ug/mL
15) t	Pristane	25.93	55683946	48.723 ug/mL
16) t	n-Octadecane (C18)	27.58	58446412	48.754 ug/mL
17) t	Phytane	27.75	58043709	48.818 ug/mL
18) t	n-Nonadecane (C19)	29.27	58140407	48.834 ug/mL
20) t	n-Eicosane (C20)	30.87	57889024	48.802 ug/mL
21) t	n-Heneicosane (C21)	32.40	59789282	48.853 ug/mL
22) t	n-Docosane (C22)	33.87	58983404	48.789 ug/mL
23) t	n-Tricosane (C23)	35.28	59391641	48.802 ug/mL
25) t	n-Tetracosane (C24)	36.64	59836684	48.580 ug/mL
26) t	n-Pentacosane (C25)	37.94	59689553	48.016 ug/mL
27) t	n-Hexacosane (C26)	39.19	59206913	48.796 ug/mL
28) t	n-Heptacosane (C27)	40.40	59061691	48.850 ug/mL
29) t	n-Octacosane (C28)	41.57	59812490	48.701 ug/mLm
30) t	n-Nonacosane (C29)	42.70	61236479	48.800 ug/mL
31) t	n-Triacontane (C30)	43.79	60258513	48.989 ug/mL
32) t	n-Hentriacontane (C31)	44.84	58452135	49.127 ug/mL
33) t	n-Dotriacontane (C32)	45.86	58925133	49.130 ug/mLm
34) t	n-Tritriacontane (C33)	46.85	59891857	49.445 ug/mLm
35) t	n-tetratriacontane (C34)	47.89	60797520	49.497 ug/mL
36) t	n-Pentatriacontane (C35)	49.06	58493593	49.541 ug/mL
37) t	n-Hexatriacontane (C36)	50.40	59965402	49.393 ug/mL
38) t	n-Heptatriacontane (C37)	51.95	64168897	49.328 ug/mL
39) t	n-Octatriacontane (C38)	53.75	60781159	49.743 ug/mLm
41) t	n-Tetracontane (C40)	58.37	59895920	49.594 ug/mLm

File :C:\MSDChem\1\DATA\PAH #1\OCT05.SEC\P15870.D
Operator : AC
Acquired : 05 Oct 2005 8:37 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: I1100503-AFID
Misc Info : WHAB31
Vial Number: 56



Quantitation Report (QT Reviewed)

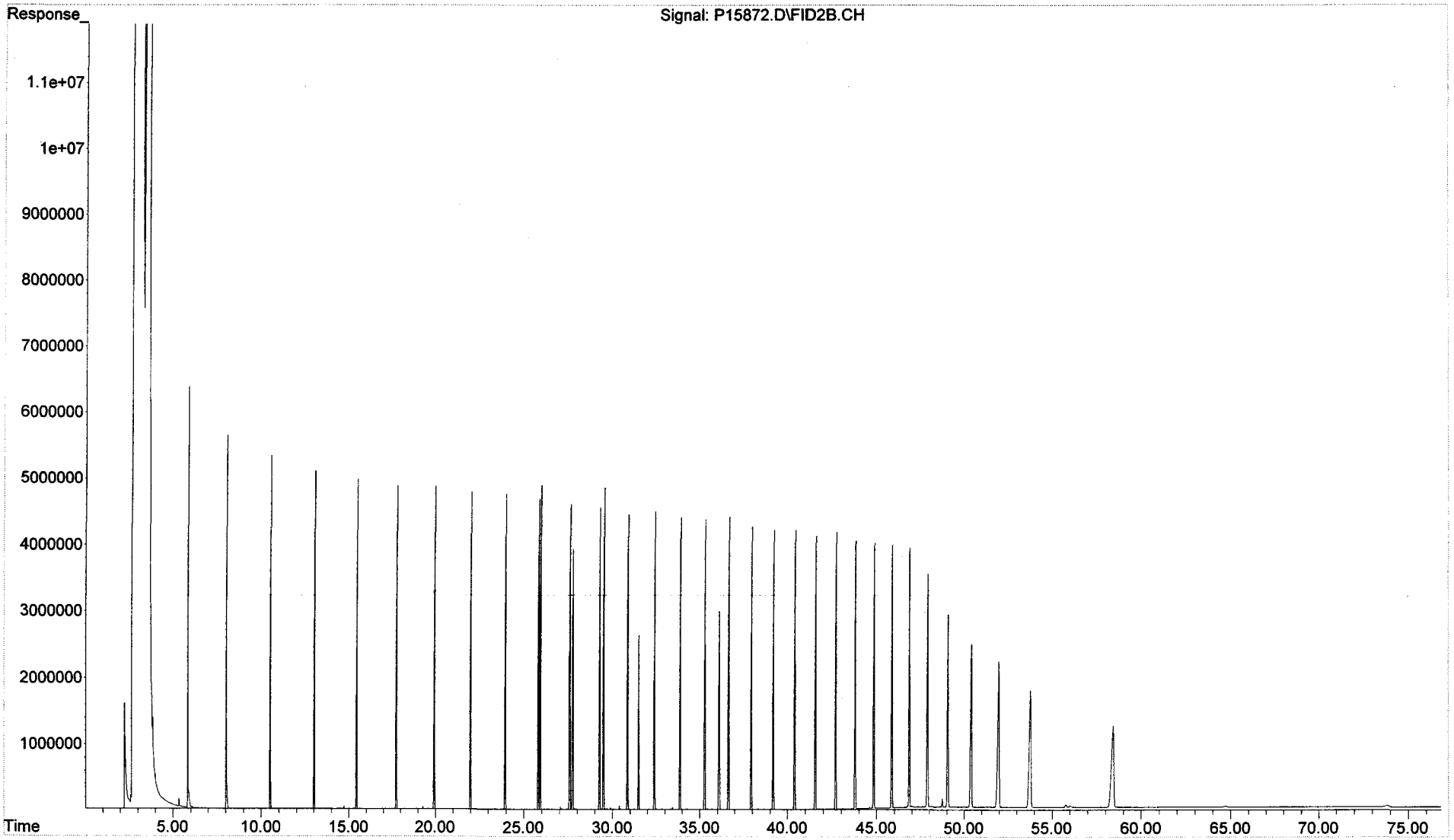
Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15872.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 10:13 pm
Operator : AC
Sample : I1100504-AFID
Misc : WHAB32
ALS Vial : 57 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 10 21:23:58 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Mon Oct 10 21:18:21 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.51	59738614	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.52	123784026	95.563 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery	= 191.13%#
24) s	d50-Tetracosane	36.11	102765324	88.576 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery	= 177.15%#
	Target Compounds			
2) t	n-Octane (C8)	5.84	95213258	97.028 ug/mL
3) t	n-Nonane (C9)	8.05	102781405	95.337 ug/mLm
4) t	n-Decane (C10)	10.53	105828639	96.006 ug/mLm
5) t	n-Undecane (C11)	13.03	107262086	96.383 ug/mLm
6) t	n-Dodecane (C12)	15.46	109922584	97.125 ug/mLm
7) t	n-Tridecane (C13)	17.77	111269393	97.224 ug/mLm
9) t	n-Tetradecane (C14)	19.95	112957898	97.245 ug/mLm
11) t	n-Pentadecane (C15)	22.02	113904133	96.961 ug/mLm
12) t	n-Hexadecane (C16)	23.98	114781277	96.873 ug/mLm
14) t	n-Heptadecane (C17)	25.84	115955930	96.694 ug/mLm
15) t	Pristane	25.95	110888857	96.889 ug/mLm
16) t	n-Octadecane (C18)	27.60	116514868	97.015 ug/mLm
17) t	Phytane	27.77	115535600	97.017 ug/mLm
18) t	n-Nonadecane (C19)	29.29	115911503	97.174 ug/mLm
20) t	n-Eicosane (C20)	30.89	115449228	97.123 ug/mLm
21) t	n-Heneicosane (C21)	32.42	119222290	97.208 ug/mLm
22) t	n-Docosane (C22)	33.89	117660808	97.131 ug/mLm
23) t	n-Tricosane (C23)	35.30	118506145	97.186 ug/mLm
25) t	n-Tetracosane (C24)	36.66	119466359	96.808 ug/mL
26) t	n-Pentacosane (C25)	37.96	119085255	95.589 ug/mLm
27) t	n-Hexacosane (C26)	39.21	118092843	97.108 ug/mL
28) t	n-Heptacosane (C27)	40.42	117826940	97.244 ug/mL
29) t	n-Octacosane (C28)	41.59	119359729	96.965 ug/mLm
30) t	n-Nonacosane (C29)	42.72	122129756	97.088 ug/mL
31) t	n-Triacontane (C30)	43.81	120202182	97.473 ug/mL
32) t	n-Hentriacontane (C31)	44.86	116492164	97.639 ug/mL
33) t	n-Dotriacontane (C32)	45.89	117329937	97.516 ug/mLm
34) t	n-Tritriacontane (C33)	46.88	119115966	98.013 ug/mLm
35) t	n-tetratriacontane (C34)	47.92	120764189	97.896 ug/mLm
36) t	n-Pentatriacontane (C35)	49.09	116069115	97.894 ug/mLm
37) t	n-Hexatriacontane (C36)	50.44	118986963	97.518 ug/mLm
38) t	n-Heptatriacontane (C37)	51.99	127310647	97.338 ug/mLm
39) t	n-Octatriacontane (C38)	53.80	120446610	97.994 ug/mLm
41) t	n-Tetracontane (C40)	58.46	118679810	97.565 ug/mLm

File :C:\MSDChem\1\DATA\PAH #1\OCT05.SEC\P15872.D
Operator : AC
Acquired : 05 Oct 2005 10:13 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: I1100504-AFID
Misc Info : WHAB32
Vial Number: 57



Quantitation Report (QT Reviewed)

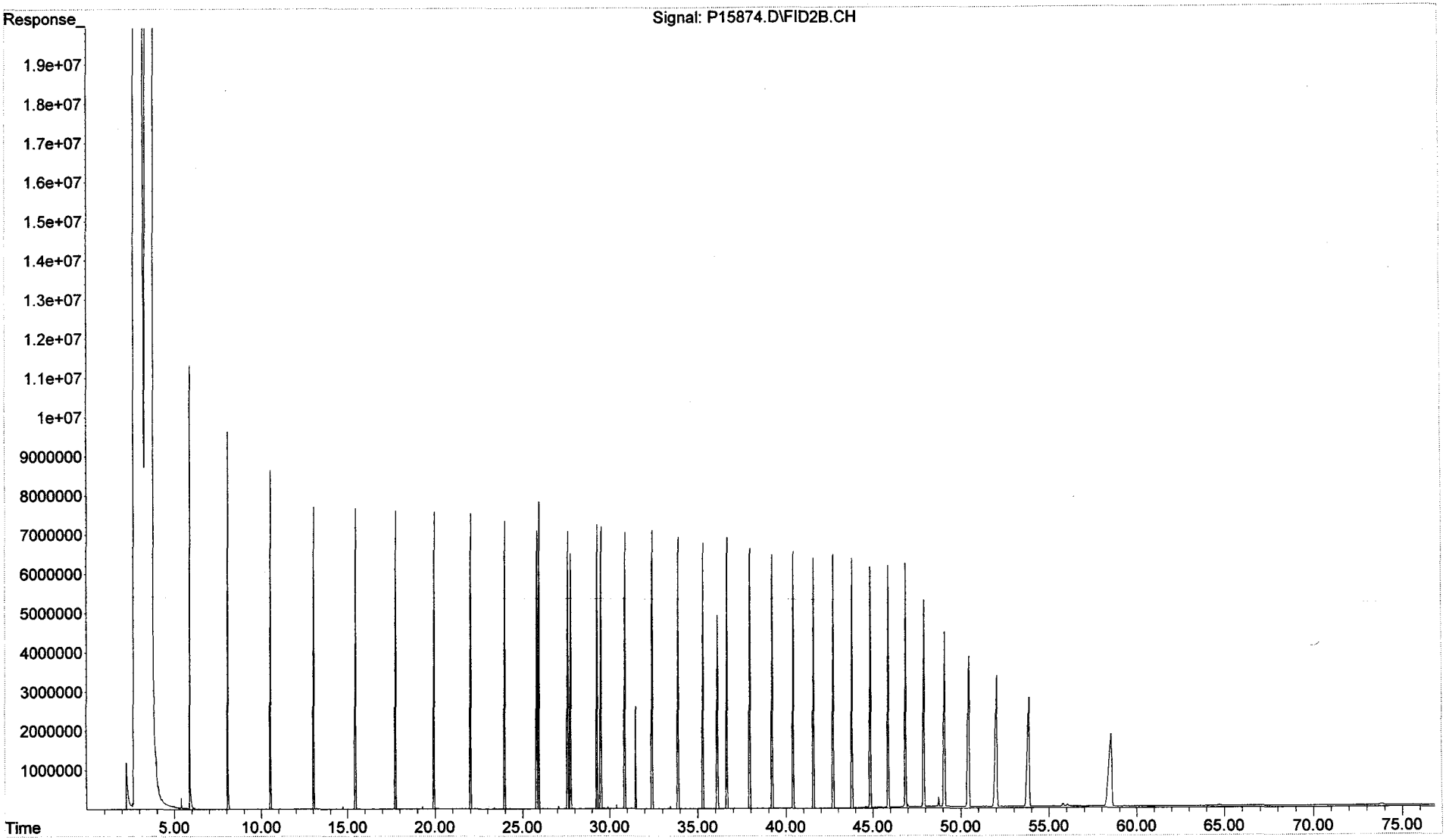
Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15874.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 11:47 pm
Operator : AC
Sample : I1100505-AFID
Misc : WHAB33
ALS Vial : 58 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 10 21:27:28 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Mon Oct 10 21:24:19 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.51	58603173	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.55	241133077	189.819 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 379.64%#
24) s	d50-Tetracosane	36.14	199264629	175.235 ug/mL
Spiked Amount	50.000	Range	50 - 130	Recovery = 350.47%#
	Target Compounds			
2) t	n-Octane (C8)	5.91f	188106199	193.077 ug/mLm
3) t	n-Nonane (C9)	8.09	202095631	190.139 ug/mLm
4) t	n-Decane (C10)	10.56	208061331	191.696 ug/mLm
5) t	n-Undecane (C11)	13.06	210776366	192.644 ug/mLm
6) t	n-Dodecane (C12)	15.49	215654778	193.955 ug/mLm
7) t	n-Tridecane (C13)	17.80	217880200	193.979 ug/mLm
9) t	n-Tetradecane (C14)	19.98	220715268	193.647 ug/mLm
11) t	n-Pentadecane (C15)	22.05	222156659	192.733 ug/mLm
12) t	n-Hexadecane (C16)	24.00	223476831	192.247 ug/mLm
14) t	n-Heptadecane (C17)	25.86	225671657	191.915 ug/mLm
15) t	Pristane	25.98	215367907	191.861 ug/mLm
16) t	n-Octadecane (C18)	27.63	226439101	192.251 ug/mL
17) t	Phytane	27.80	224131538	191.910 ug/mL
18) t	n-Nonadecane (C19)	29.32	224970843	192.413 ug/mL
20) t	n-Eicosane (C20)	30.92	223880202	192.088 ug/mL
21) t	n-Heneicosane (C21)	32.45	231304721	192.356 ug/mL
22) t	n-Docosane (C22)	33.92	228237623	18.041 ug/mL
23) t	n-Tricosane (C23)	35.33	229853494	192.197 ug/mL
25) t	n-Tetracosane (C24)	36.69	231618014	191.375 ug/mL
26) t	n-Pentacosane (C25)	37.99	230257861	188.520 ug/mL
27) t	n-Hexacosane (C26)	39.24	228835118	192.044 ug/mL
28) t	n-Heptacosane (C27)	40.45	228244100	192.224 ug/mL
29) t	n-Octacosane (C28)	41.62	231104479	191.673 ug/mLm
30) t	n-Nonacosane (C29)	42.75	236435398	191.874 ug/mL
31) t	n-Triacontane (C30)	43.84	232590130	192.562 ug/mL
32) t	n-Hentriacontane (C31)	44.90	225434305	192.958 ug/mL
33) t	n-Dotriacontane (C32)	45.92	226936670	192.745 ug/mL
34) t	n-Tritriacontane (C33)	46.91	230463854	193.762 ug/mLm
35) t	n-tetratriacontane (C34)	47.96	233629218	193.923 ug/mLm
36) t	n-Pentatriacontane (C35)	49.14	224668006	193.792 ug/mLm
37) t	n-Hexatriacontane (C36)	50.49	230449861	193.411 ug/mLm
38) t	n-Heptatriacontane (C37)	52.07f	246520015	192.968 ug/mLm
39) t	n-Octatriacontane (C38)	53.89f	233388724	194.475 ug/mLm
41) t	n-Tetracontane (C40)	58.57f	230023588	194.013 ug/mLm

File :C:\MSDChem\1\DATA\PAH #1\OCT05.SEC\P15874.D
Operator : AC
Acquired : 05 Oct 2005 11:47 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: I1100505-AFID
Misc Info : WHAB33
Vial Number: 58



Quantitation Report (QT Reviewed)

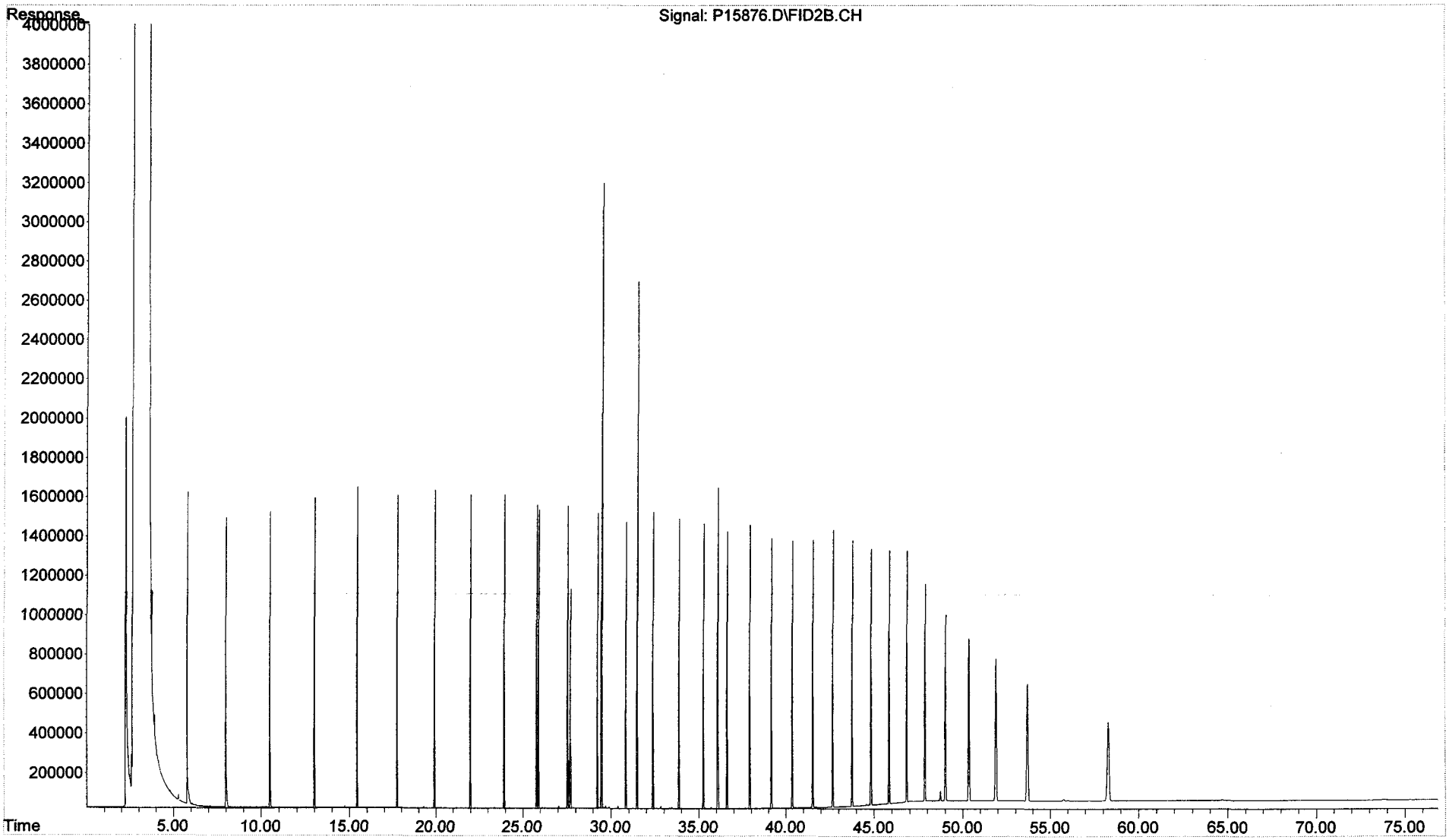
Data Path : C:\MSDChem\1\DATA\PAH #1\OCT05.SEC\
Data File : P15876.D
Signal(s) : FID2B.CH
Acq On : 06 Oct 2005 1:20 am
Operator : AC
Sample : Q1100501-AFID
Misc : WHAB34
ALS Vial : 59 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 14 17:48:23 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Oct 14 16:49:01 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.50	59317706	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.49	69329670	53.923 ug/mLm
Spiked Amount	50.000	Range 50 - 130	Recovery =	107.85%
24) s	d50-Tetracosane	36.09	51829846	44.978 ug/mLm
Spiked Amount	50.000	Range 50 - 130	Recovery =	89.96%
	Target Compounds			
2) t	n-Octane (C8)	5.79	23829230	24.916 ug/mL 99.7 %
3) t	n-Nonane (C9)	8.01	25967905	24.624 ug/mLm
4) t	n-Decane (C10)	10.50	26642537	24.643 ug/mLm
5) t	n-Undecane (C11)	13.01	26920944	24.591 ug/mLm
6) t	n-Dodecane (C12)	15.44	27543858	24.692 ug/mLm
7) t	n-Tridecane (C13)	17.74	27946438	24.729 ug/mLm
9) t	n-Tetradecane (C14)	19.92	28440857	24.766 ug/mLm
11) t	n-Pentadecane (C15)	21.99	28749024	24.727 ug/mLm
12) t	n-Hexadecane (C16)	23.94	29010740	24.720 ug/mLm
14) t	n-Heptadecane (C17)	25.80	29343979	24.696 ug/mLm
15) t	Pristane	25.91	28116497	24.769 ug/mLm
16) t	n-Octadecane (C18)	27.57	29501306	24.762 ug/mLm
17) t	Phytane	27.73	29343185	24.845 ug/mLm
18) t	n-Nonadecane (C19)	29.25	29361033	24.803 ug/mLm
20) t	n-Eicosane (C20)	30.85	29253994	24.785 ug/mLm
21) t	n-Heneicosane (C21)	32.39	30178589	24.777 ug/mLm
22) t	n-Docosane (C22)	33.86	29823066	24.795 ug/mLm
23) t	n-Tricosane (C23)	35.26	30040715	24.804 ug/mL
25) t	n-Tetracosane (C24)	36.62	30254682	24.679 ug/mLm
26) t	n-Pentacosane (C25)	37.92	30252551	24.453 ug/mLm 97.8 %
27) t	n-Hexacosane (C26)	39.17	29926696	24.768 ug/mLm
28) t	n-Heptacosane (C27)	40.38	29867556	24.809 ug/mLm
29) t	n-Octacosane (C28)	41.55	30257088	24.734 ug/mLm
30) t	n-Nonacosane (C29)	42.68	30946072	24.753 ug/mLm
31) t	n-Triacontane (C30)	43.77	30442466	24.833 ug/mL
32) t	n-Hentriacontane (C31)	44.82	29519658	24.886 ug/mL
33) t	n-Dotriacontane (C32)	45.84	29714031	24.831 ug/mLm
34) t	n-Tritriacontane (C33)	46.84	30199051	24.971 ug/mLm
35) t	n-tetratriacontane (C34)	47.87	30588393	24.900 ug/mLm
36) t	n-Pentatriacontane (C35)	49.04	29447904	24.921 ug/mLm
37) t	n-Hexatriacontane (C36)	50.37	30202985	24.813 ug/mLm
38) t	n-Heptatriacontane (C37)	51.91	32061859	24.544 ug/mLm
39) t	n-Octatriacontane (C38)	53.71	30583922	24.897 ug/mL
41) t	n-Tetracontane (C40)	58.31	30158389	24.748 ug/mL

File :C:\MSDChem\1\DATA\PAH #1\OCT05.SEC\P15876.D
Operator : AC
Acquired : 06 Oct 2005 1:20 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: Q1100501-AFID
Misc Info : WHAB34
Vial Number: 59



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15862.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 1:38 pm
Operator : AC
Sample : TO101705AWS01
Misc : !X WHAB40
ALS Vial : 52 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 16 22:13:48 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Oct 14 16:49:01 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.51	61467439	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.50	77058252	57.838 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	115.68%
24) s	d50-Tetracosane	36.11	65286454	54.674 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	109.35%
	Target Compounds			
2) t	n-Octane (C8)	5.77	31610910	31.896 ug/mLm
3) t	n-Nonane (C9)	8.00	28798050	26.353 ug/mL — RF 2nd 10/18/05
4) t	n-Decane (C10)	10.50	28790402	25.698 ug/mLm
5) t	n-Undecane (C11)	13.01	27885870	24.582 ug/mLm
6) t	n-Dodecane (C12)	15.44	26532784	22.954 ug/mLm
7) t	n-Tridecane (C13)	17.75	27674278	23.632 ug/mLm
8) t	1380	19.42	6968228	5.856 ug/mL
9) t	n-Tetradecane (C14)	19.93	24867330	20.897 ug/mLm
10) t	1470	21.21	9432308	7.829 ug/mLm
11) t	n-Pentadecane (C15)	21.99	26467136	21.969 ug/mLm
12) t	n-Hexadecane (C16)	23.95	22947096	18.869 ug/mLm
13) t	1650	24.85	6837175	5.553 ug/mLm
14) t	n-Heptadecane (C17)	25.80	19606240	15.924 ug/mLm
15) t	Pristane	25.90	15123887	12.857 ug/mLm
16) t	n-Octadecane (C18)	27.57	17767739	14.392 ug/mLm
17) t	Phytane	27.73	12372781	10.110 ug/mLm
18) t	n-Nonadecane (C19)	29.25	18045978	14.711 ug/mLm
20) t	n-Eicosane (C20)	30.86	17910248	14.643 ug/mLm
21) t	n-Heneicosane (C21)	32.39	17175084	13.608 ug/mLm
22) t	n-Docosane (C22)	33.86	15579762	12.500 ug/mL
23) t	n-Tricosane (C23)	35.27	14062637	11.205 ug/mLm
25) t	n-Tetracosane (C24)	36.62	13687084	10.774 ug/mLm
26) t	n-Pentacosane (C25)	37.92	13503614	10.533 ug/mLm
27) t	n-Hexacosane (C26)	39.17	11280982	9.010 ug/mLm
28) t	n-Heptacosane (C27)	40.38	8995736	7.211 ug/mLm
29) t	n-Octacosane (C28)	41.55	6356096	5.014 ug/mLm
30) t	n-Nonacosane (C29)	42.67	6732194	5.197 ug/mLm
31) t	n-Triacontane (C30)	43.76	4936578	3.886 ug/mLm
32) t	n-Hentriacontane (C31)	44.82	4704885	3.828 ug/mLm
33) t	n-Dotriacontane (C32)	45.84	3091860	2.493 ug/mLm
34) t	n-Tritriacontane (C33)	46.83	2589140	2.066 ug/mLm
35) t	n-tetratriacontane (C34)	47.86	2242026	1.761 ug/mLm
36) t	n-Pentatriacontane (C35)	49.02	2610459	2.132 ug/mLm
37) t	n-Hexatriacontane (C36)	50.36	1615213	1.281 ug/mL

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15862.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 1:38 pm
Operator : AC
Sample : TO101705AWS01
Misc : !X WHAB40
ALS Vial : 52 Sample Multiplier: 1

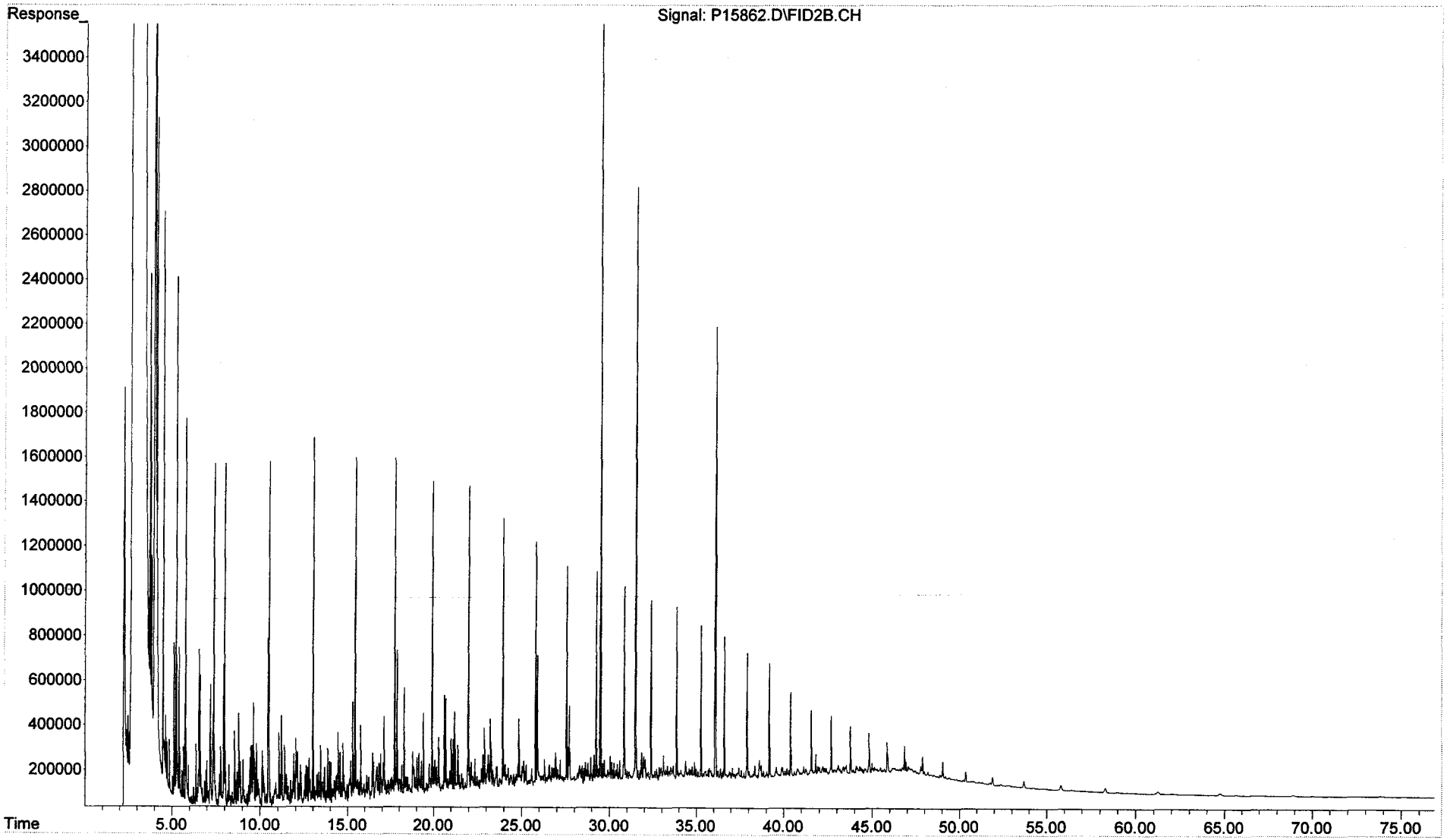
Integration File: SHCINT1.E
Quant Time: Oct 16 22:13:48 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Oct 14 16:49:01 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

		Compound	R.T.	Response	Conc	Units
38)	t	n-Heptatriacontane (C37)	51.90	1628785	1.203	ug/mLm
39)	t	n-Octatriacontane (C38)	53.70	1695478	1.332	ug/mLm
40)	t	n-Nonatriacontane (C39)	55.80	1205165	0.954	ug/mLm
41)	t	n-Tetracontane (C40)	58.29	1268324	1.004	ug/mLm
42)	h	C9-C40 Total Petroleum Hyd	40.94	5151183122	4184.811	ug/mL
44)	h	Total Resolved Hydrocarbon	37.93	1623832280	1319.198	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\P15862.D
Operator : AC
Acquired : 05 Oct 2005 1:38 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: TO101705AWS01
Misc Info : !X WHAB40
Vial Number: 52



Form VII
Calibration Verification
Total Saturated Hydrocarbons by GC/FID

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1020301**
Case: **N/A** SDG: **N/A**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
n-Nonane (C9)	50.00	49.41	1.2	25
n-Decane (C10)	50.00	49.32	1.4	25
n-Undecane (C11)	50.00	48.98	2.0	25
n-Dodecane (C12)	50.00	49.35	1.3	25
n-Tridecane (C13)	50.00	49.14	1.7	25
n-Tetradecane (C14)	50.00	49.19	1.6	25
n-Pentadecane (C15)	50.00	48.97	2.1	25
n-Hexadecane (C16)	50.00	48.84	2.3	25
n-Heptadecane (C17)	50.00	48.92	2.2	25
Pristane	50.00	48.98	2.0	25
n-Octadecane (C18)	50.00	48.99	2.0	25
Phytane	50.00	49.37	1.3	25
n-Nonadecane (C19)	50.00	49.11	1.8	25
n-Eicosane (C20)	50.00	49.41	1.2	25
n-Heneicosane (C21)	50.00	48.99	2.0	25
n-Docosane (C22)	50.00	47.56	4.9	25
n-Tricosane (C23)	50.00	49.02	2.0	25
n-Tetracosane (C24)	50.00	48.30	3.4	25
n-Pentacosane (C25)	50.00	48.16	3.7	25
n-Hexacosane (C26)	50.00	49.65	0.7	25
n-Heptacosane (C27)	50.00	49.20	1.6	25
n-Octacosane (C28)	50.00	49.13	1.7	25
n-Nonacosane (C29)	50.00	49.11	1.8	25
n-Triacontane (C30)	50.00	49.24	1.5	25
n-Hentriacontane (C31)	50.00	51.74	3.5	25
n-Dotriacontane (C32)	50.00	49.17	1.7	25
n-Tritriacontane (C33)	50.00	49.67	0.7	25
n-Tetratriacontane (C34)	50.00	49.59	0.8	25
n-Pentatriacontane (C35)	50.00	49.82	0.4	25
n-Hexatriacontane (C36)	50.00	49.70	0.6	25
n-Heptatriacontane (C37)	50.00	47.68	4.6	25
n-Octatriacontane (C38)	50.00	49.82	0.4	25
n-Tetracontane (C40)	50.00	50.52	1.0	25
ortho-Terphenyl	50.00	48.67	2.7	25
d50-Tetracosane	50.00	45.51	9.0	25

Area Response Ratio C30 to C20	Ratio
(Area C30/Area C20)	1.04

N/A - Not Applicable

02/14/06 15:03

Quantitation Report (QT Reviewed)

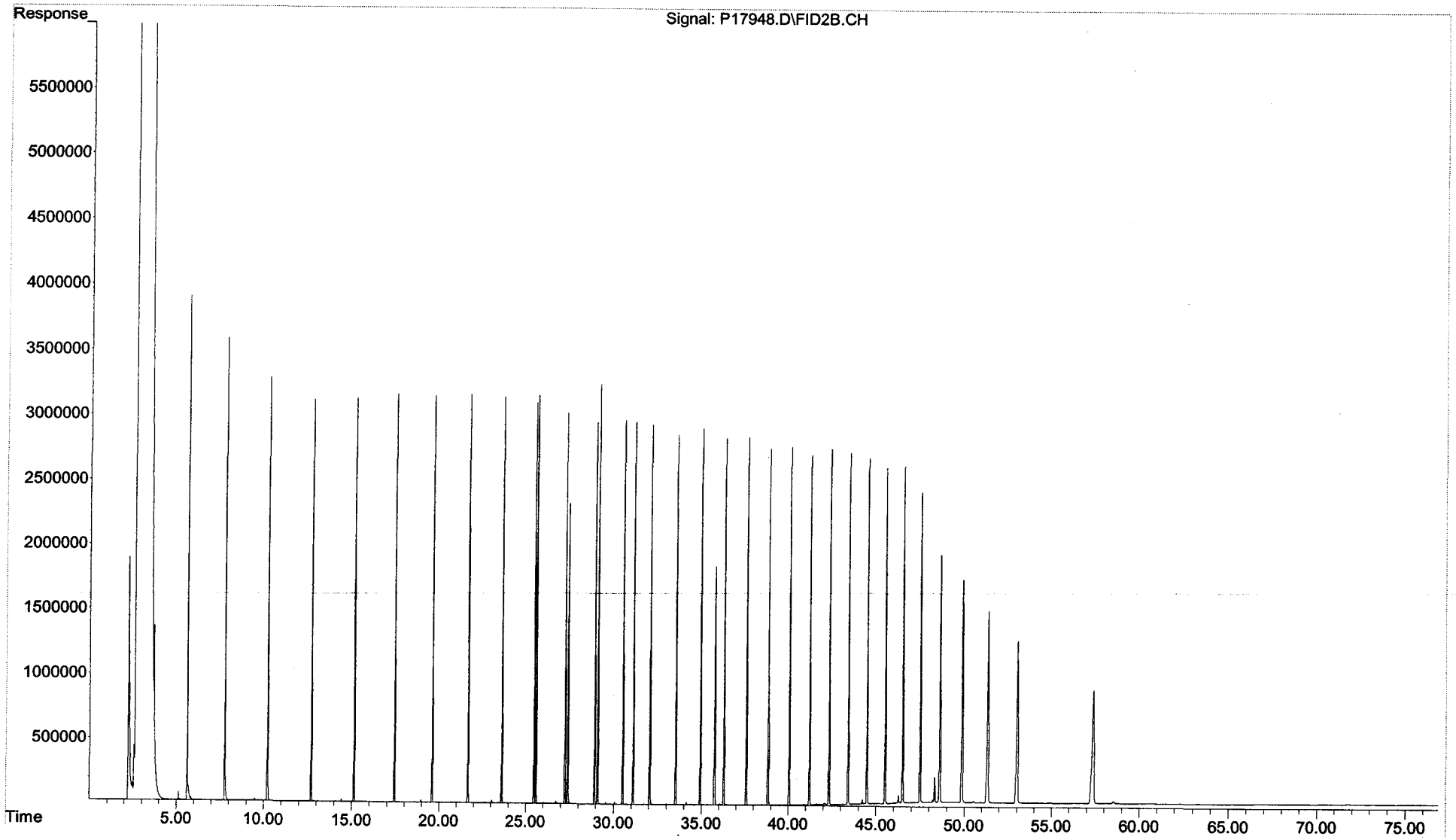
Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17948.D
Signal(s) : FID2B.CH
Acq On : 03 Feb 2006 2:55 pm
Operator : AC
Sample : C1020301-AFID
Misc : 1X
ALS Vial : 51 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Feb 07 14:53:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.13	66419454	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.12	70067195	48.669 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 97.34%
24) s	d50-Tetracosane	35.76	58725304	45.513 ug/mL
Spiked Amount	50.000	Range	50 - 130	Recovery = 91.03%
	Target Compounds			
2) t	n-Octane (C8)	5.61	53655671	50.104 ug/mL
3) t	n-Nonane (C9)	7.78	58343088	49.409 ug/mL
4) t	n-Decane (C10)	10.23	59709869	49.324 ug/mLm
5) t	n-Undecane (C11)	12.72	60040805	48.980 ug/mL
6) t	n-Dodecane (C12)	15.14	61636715	49.348 ug/mLm
7) t	n-Tridecane (C13)	17.44	62185038	49.142 ug/mLm
9) t	n-Tetradecane (C14)	19.62	63255491	49.193 ug/mL
11) t	n-Pentadecane (C15)	21.68	63756022	48.974 ug/mL
12) t	n-Hexadecane (C16)	23.64	64182832	48.842 ug/mL
14) t	n-Heptadecane (C17)	25.49	65087424	48.922 ug/mL
15) t	Pristane	25.60	62251475	48.977 ug/mL
16) t	n-Octadecane (C18)	27.25	65351838	48.989 ug/mL
17) t	Phytane	27.42	65282246	49.366 ug/mL
18) t	n-Nonadecane (C19)	28.94	65090362	49.106 ug/mLm
20) t	n-Eicosane (C20)	30.54	65305155	49.413 ug/mLm
21) t	n-Heneicosane (C21)	32.07	66807988	48.986 ug/mL
22) t	n-Docosane (C22)	33.54	64049019	47.557 ug/mL
23) t	n-Tricosane (C23)	34.95	66483404	49.025 ug/mL
25) t	n-Tetracosane (C24)	36.30	66296702	48.296 ug/mL
26) t	n-Pentacosane (C25)	37.60	66721075	48.165 ug/mLm
27) t	n-Hexacosane (C26)	38.86	67174873	49.651 ug/mL
28) t	n-Heptacosane (C27)	40.06	66326669	49.203 ug/mL
29) t	n-Octacosane (C28)	41.23	67302025	49.135 ug/mL
30) t	n-Nonacosane (C29)	42.36	68751602	49.113 ug/mL
31) t	n-Triacontane (C30)	43.45	67591751	49.241 ug/mLm
32) t	n-Hentriacontane (C31)	44.51	68717069	51.737 ug/mL
33) t	n-Dotriacontane (C32)	45.53	65878844	49.167 ug/mLm
34) t	n-Tritriacontane (C33)	46.52	67254709	49.665 ug/mLm
35) t	n-tetratriacontane (C34)	47.52	68213162	49.590 ug/mLm
36) t	n-Pentatriacontane (C35)	48.62	65912273	49.816 ug/mL
37) t	n-Hexatriacontane (C36)	49.89	67738256	49.700 ug/mL
38) t	n-Heptatriacontane (C37)	51.35	69748331	47.685 ug/mLm
39) t	n-Octatriacontane (C38)	53.05	68529036	49.821 ug/mLm
41) t	n-Tetracontane (C40)	57.38	68937765	50.522 ug/mLm

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17948.D
Operator : AC
Acquired : 03 Feb 2006 2:55 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: C1020301-AFID
Misc Info : 1X
Vial Number: 51



Form VII
Calibration Verification
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1020302**
Case: **N/A** SDG: **N/A**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
n-Nonane (C9)	50.00	49.49	1.0	25
n-Decane (C10)	50.00	49.10	1.8	25
n-Undecane (C11)	50.00	48.89	2.2	25
n-Dodecane (C12)	50.00	49.26	1.5	25
n-Tridecane (C13)	50.00	49.16	1.7	25
n-Tetradecane (C14)	50.00	49.15	1.7	25
n-Pentadecane (C15)	50.00	48.93	2.1	25
n-Hexadecane (C16)	50.00	48.82	2.4	25
n-Heptadecane (C17)	50.00	48.93	2.1	25
Pristane	50.00	49.01	2.0	25
n-Octadecane (C18)	50.00	49.03	1.9	25
Phytane	50.00	49.41	1.2	25
n-Nonadecane (C19)	50.00	49.15	1.7	25
n-Eicosane (C20)	50.00	49.52	1.0	25
n-Heneicosane (C21)	50.00	49.10	1.8	25
n-Docosane (C22)	50.00	47.67	4.7	25
n-Tricosane (C23)	50.00	49.24	1.5	25
n-Tetracosane (C24)	50.00	48.46	3.1	25
n-Pentacosane (C25)	50.00	48.37	3.3	25
n-Hexacosane (C26)	50.00	49.87	0.3	25
n-Heptacosane (C27)	50.00	49.47	1.1	25
n-Octacosane (C28)	50.00	49.38	1.2	25
n-Nonacosane (C29)	50.00	49.34	1.3	25
n-Triacontane (C30)	50.00	49.52	1.0	25
n-Hentriacontane (C31)	50.00	51.91	3.8	25
n-Dotriacontane (C32)	50.00	49.47	1.1	25
n-Tritriacontane (C33)	50.00	50.09	0.2	25
n-Tetratriacontane (C34)	50.00	50.03	0.1	25
n-Pentatriacontane (C35)	50.00	50.11	0.2	25
n-Hexatriacontane (C36)	50.00	49.95	0.1	25
n-Heptatriacontane (C37)	50.00	47.96	4.1	25
n-Octatriacontane (C38)	50.00	50.07	0.1	25
n-Tetracontane (C40)	50.00	50.76	1.5	25
ortho-Terphenyl	50.00	48.67	2.7	25
d50-Tetracosane	50.00	45.73	8.5	25

Area Response Ratio C30 to C20	Ratio
(Area C30/Area C20)	1.04

N/A - Not Applicable

02/14/06 15:04

Quantitation Report (QT Reviewed)

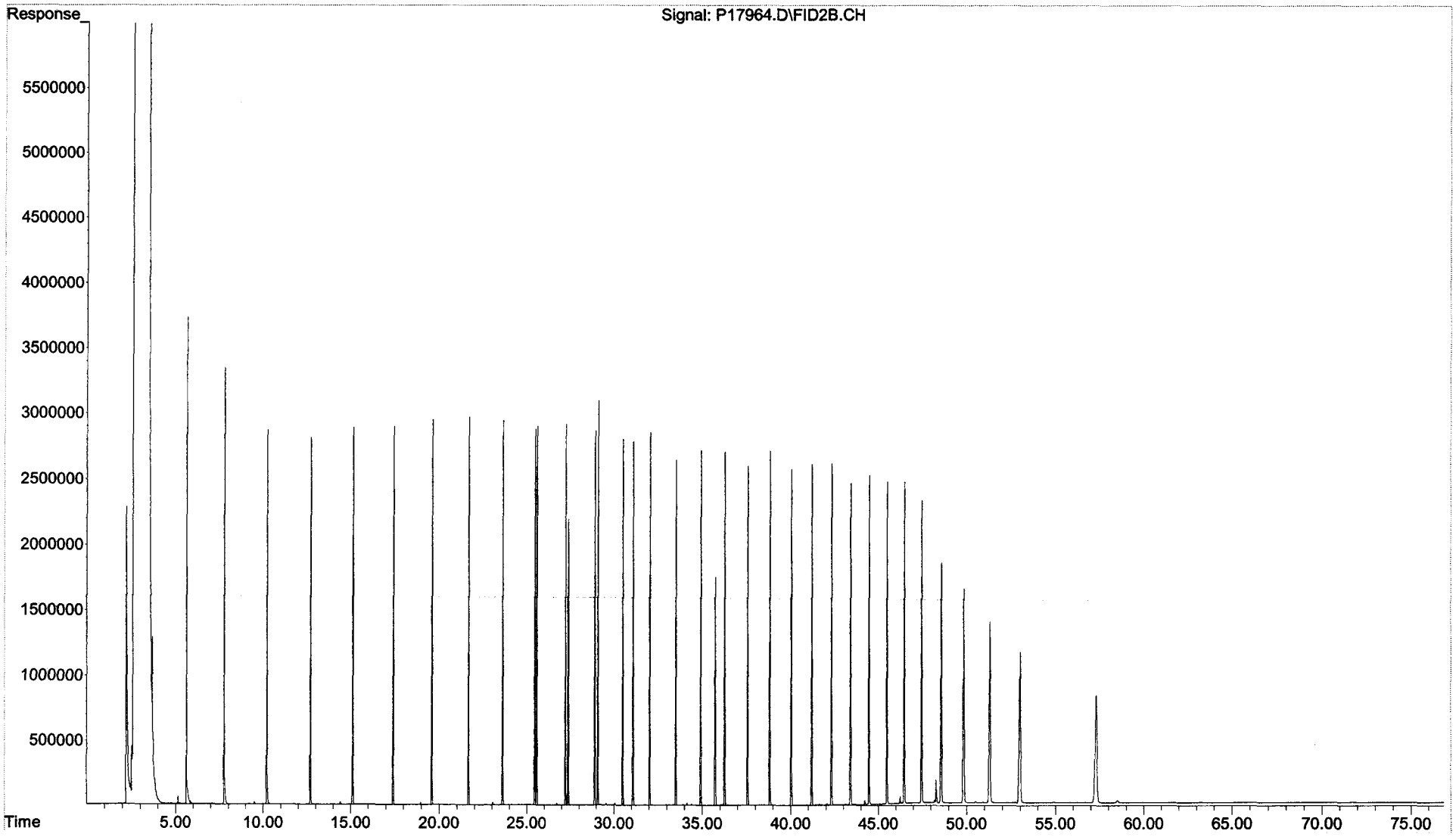
Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17964.D
Signal(s) : FID2B.CH
Acq On : 04 Feb 2006 3:40 am
Operator : AC
Sample : C1020302-AFID
Misc : ALK STD
ALS Vial : 59 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Feb 07 14:56:32 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	31.12	61511669	50.000 ug/mLm
System Monitoring Compounds				
19) s	ortho-terphenyl	29.11	64894626	48.673 ug/mLm
Spiked Amount	50.000	Range 50 - 130	Recovery =	97.35%
24) s	d50-Tetracosane	35.75	54640388	45.726 ug/mL
Spiked Amount	50.000	Range 50 - 130	Recovery =	91.45%
Target Compounds				
2) t	n-Octane (C8)	5.62	50716562	51.138 ug/mL
3) t	n-Nonane (C9)	7.78	54120142	49.489 ug/mL
4) t	n-Decane (C10)	10.23	55043102	49.096 ug/mLm
5) t	n-Undecane (C11)	12.72	55501565	48.890 ug/mL
6) t	n-Dodecane (C12)	15.14	56983335	49.262 ug/mL
7) t	n-Tridecane (C13)	17.44	57605117	49.155 ug/mL
9) t	n-Tetradecane (C14)	19.61	58535860	49.155 ug/mL
11) t	n-Pentadecane (C15)	21.68	58989286	48.928 ug/mL
12) t	n-Hexadecane (C16)	23.63	59407703	48.816 ug/mL
14) t	n-Heptadecane (C17)	25.48	60284514	48.927 ug/mL
15) t	Pristane	25.59	57691670	49.011 ug/mL
16) t	n-Octadecane (C18)	27.25	60571491	49.028 ug/mL
17) t	Phytane	27.41	60510942	49.408 ug/mL
18) t	n-Nonadecane (C19)	28.93	60332806	49.148 ug/mLm
20) t	n-Eicosane (C20)	30.53	60606023	49.516 ug/mL
21) t	n-Heneicosane (C21)	32.06	62012791	49.098 ug/mL
22) t	n-Docosane (C22)	33.53	59459104	47.671 ug/mL
23) t	n-Tricosane (C23)	34.94	61835083	49.235 ug/mL
25) t	n-Tetracosane (C24)	36.29	61607307	48.461 ug/mL
26) t	n-Pentacosane (C25)	37.59	62052666	48.369 ug/mL
27) t	n-Hexacosane (C26)	38.84	62488558	49.873 ug/mL
28) t	n-Heptacosane (C27)	40.05	61753764	49.466 ug/mL
29) t	n-Octacosane (C28)	41.22	62643273	49.383 ug/mL
30) t	n-Nonacosane (C29)	42.35	63970537	49.343 ug/mL
31) t	n-Triacontane (C30)	43.44	62948687	49.517 ug/mL
32) t	n-Hentriacontane (C31)	44.49	63850368	51.908 ug/mL
33) t	n-Dotriacontane (C32)	45.51	61387387	49.470 ug/mL
34) t	n-Tritriacontane (C33)	46.51	62816955	50.089 ug/mL
35) t	n-tetratriacontane (C34)	47.50	63734094	50.031 ug/mL
36) t	n-Pentatriacontane (C35)	48.61	61396232	50.105 ug/mL
37) t	n-Hexatriacontane (C36)	49.87	63053647	49.954 ug/mLm
38) t	n-Heptatriacontane (C37)	51.32	64973036	47.964 ug/mL
39) t	n-Octatriacontane (C38)	53.02	63786080	50.073 ug/mLm
41) t	n-Tetracontane (C40)	57.33	64146853	50.762 ug/mLm

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17964.D
Operator : AC
Acquired : 04 Feb 2006 3:40 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: C1020302-AFID
Misc Info : ALK STD
Vial Number: 59



Form VII
Calibration Verification
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1020303**
Case: **N/A** SDG: **N/A**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
n-Nonane (C9)	50.00	49.37	1.3	25
n-Decane (C10)	50.00	49.05	1.9	25
n-Undecane (C11)	50.00	48.84	2.3	25
n-Dodecane (C12)	50.00	49.29	1.4	25
n-Tridecane (C13)	50.00	49.15	1.7	25
n-Tetradecane (C14)	50.00	49.15	1.7	25
n-Pentadecane (C15)	50.00	48.91	2.2	25
n-Hexadecane (C16)	50.00	48.76	2.5	25
n-Heptadecane (C17)	50.00	48.82	2.4	25
Pristane	50.00	48.90	2.2	25
n-Octadecane (C18)	50.00	48.93	2.1	25
Phytane	50.00	49.29	1.4	25
n-Nonadecane (C19)	50.00	49.05	1.9	25
n-Eicosane (C20)	50.00	49.41	1.2	25
n-Heneicosane (C21)	50.00	49.00	2.0	25
n-Docosane (C22)	50.00	49.96	0.1	25
n-Tricosane (C23)	50.00	49.05	1.9	25
n-Tetracosane (C24)	50.00	48.36	3.3	25
n-Pentacosane (C25)	50.00	48.26	3.5	25
n-Hexacosane (C26)	50.00	49.74	0.5	25
n-Heptacosane (C27)	50.00	49.31	1.4	25
n-Octacosane (C28)	50.00	49.24	1.5	25
n-Nonacosane (C29)	50.00	49.25	1.5	25
n-Triacontane (C30)	50.00	49.39	1.2	25
n-Hentriacontane (C31)	50.00	51.86	3.7	25
n-Dotriacontane (C32)	50.00	49.25	1.5	25
n-Tritriacontane (C33)	50.00	49.82	0.4	25
n-Tetratriacontane (C34)	50.00	49.54	0.9	25
n-Pentatriacontane (C35)	50.00	49.75	0.5	25
n-Hexatriacontane (C36)	50.00	49.61	0.8	25
n-Heptatriacontane (C37)	50.00	47.58	4.8	25
n-Octatriacontane (C38)	50.00	49.66	0.7	25
n-Tetracontane (C40)	50.00	50.25	0.5	25
ortho-Terphenyl	50.00	48.66	2.7	25
d50-Tetracosane	50.00	45.64	8.7	25

Area Response Ratio C30 to C20	Ratio
(Area C30/Area C20)	1.04

N/A - Not Applicable

02/14/06 15:04

Quantitation Report (QT Reviewed)

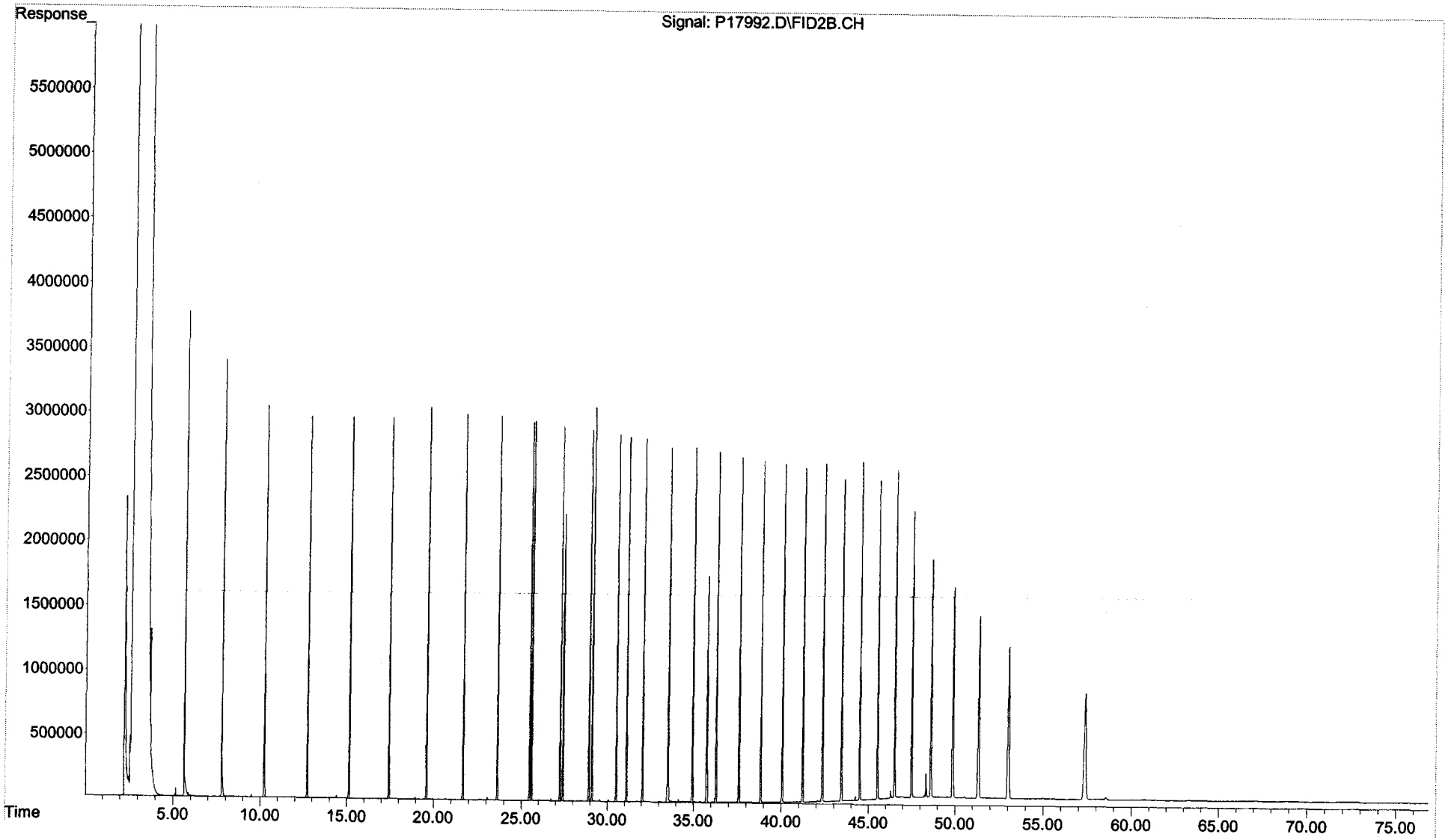
Data Path : O:\Forensics\Data\PAH1\February06\FEB03.SEC\
Data File : P17992.D
Signal(s) : FID2B.CH
Acq On : 05 Feb 2006 5:59 am
Operator : AC
Sample : C1020303-AFID
Misc : ALK STD
ALS Vial : 73 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Feb 07 15:01:34 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.13	62388766	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.11	65808440	48.664 ug/mLm
Spiked Amount 50.000	Range 50 - 130	Recovery =	97.33%
24) s d50-Tetracosane	35.76	55320687	45.644 ug/mL
Spiked Amount 50.000	Range 50 - 130	Recovery =	91.29%
Target Compounds			
2) t n-Octane (C8)	5.62	51169035	50.869 ug/mL
3) t n-Nonane (C9)	7.78	54762245	49.372 ug/mL
4) t n-Decane (C10)	10.23	55779530	49.054 ug/mLm
5) t n-Undecane (C11)	12.72	56230280	48.835 ug/mL
6) t n-Dodecane (C12)	15.14	57834124	49.295 ug/mLm
7) t n-Tridecane (C13)	17.44	58418801	49.149 ug/mL
9) t n-Tetradecane (C14)	19.62	59367329	49.152 ug/mL
11) t n-Pentadecane (C15)	21.68	59811470	48.912 ug/mL
12) t n-Hexadecane (C16)	23.63	60188885	48.762 ug/mL
14) t n-Heptadecane (C17)	25.49	61014096	48.823 ug/mL
15) t Pristane	25.60	58378295	48.897 ug/mL
16) t n-Octadecane (C18)	27.25	61310421	48.929 ug/mL
17) t Phytane	27.42	61231635	49.294 ug/mL
18) t n-Nonadecane (C19)	28.93	61067891	49.048 ug/mLm
20) t n-Eicosane (C20)	30.54	61336973	49.409 ug/mL
21) t n-Heneicosane (C21)	32.07	62768221	48.997 ug/mL
22) t n-Docosane (C22)	33.54	63199192	49.958 ug/mLm
23) t n-Tricosane (C23)	34.95	62475615	49.046 ug/mL
25) t n-Tetracosane (C24)	36.30	62355224	48.360 ug/mL
26) t n-Pentacosane (C25)	37.60	62794879	48.259 ug/mL
27) t n-Hexacosane (C26)	38.86	63212355	49.741 ug/mL
28) t n-Heptacosane (C27)	40.06	62434348	49.308 ug/mL
29) t n-Octacosane (C28)	41.23	63349258	49.237 ug/mL
30) t n-Nonacosane (C29)	42.36	64764820	49.254 ug/mL
31) t n-Triacontane (C30)	43.45	63686546	49.393 ug/mLm
32) t n-Hentriacontane (C31)	44.51	64700373	51.860 ug/mL
33) t n-Dotriacontane (C32)	45.53	61981467	49.247 ug/mLm
34) t n-Tritriacontane (C33)	46.52	63371008	49.821 ug/mLm
35) t n-tetratriacontane (C34)	47.52	64006062	49.538 ug/mLm
36) t n-Pentatriacontane (C35)	48.63	61835038	49.754 ug/mLm
37) t n-Hexatriacontane (C36)	49.89	63510742	49.609 ug/mLm
38) t n-Heptatriacontane (C37)	51.35	65370795	47.579 ug/mLm
39) t n-Octatriacontane (C38)	53.05	64157389	49.656 ug/mLm
41) t n-Tetracontane (C40)	57.39	64406876	50.251 ug/mLm

File :O:\Forensics\Data\PAH1\February06\FEB03.SEC\P17992.D
Operator : AC
Acquired : 05 Feb 2006 5:59 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: C1020303-AFID
Misc Info : ALK STD
Vial Number: 73



Form VII
Calibration Verification
Total Saturated Hydrocarbons by GC/FID

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0601070**
Lab ID: **C1021001**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
n-Nonane (C9)	50.00	48.10	3.8	25
n-Decane (C10)	50.00	48.37	3.3	25
n-Undecane (C11)	50.00	48.33	3.3	25
n-Dodecane (C12)	50.00	48.90	2.2	25
n-Tridecane (C13)	50.00	48.83	2.3	25
n-Tetradecane (C14)	50.00	48.96	2.1	25
n-Pentadecane (C15)	50.00	48.81	2.4	25
n-Hexadecane (C16)	50.00	48.69	2.6	25
n-Heptadecane (C17)	50.00	48.88	2.2	25
Pristane	50.00	48.94	2.1	25
n-Octadecane (C18)	50.00	49.00	2.0	25
Phytane	50.00	49.34	1.3	25
n-Nonadecane (C19)	50.00	49.13	1.7	25
n-Eicosane (C20)	50.00	49.50	1.0	25
n-Heneicosane (C21)	50.00	49.11	1.8	25
n-Docosane (C22)	50.00	47.69	4.6	25
n-Tricosane (C23)	50.00	49.26	1.5	25
n-Tetracosane (C24)	50.00	48.52	3.0	25
n-Pentacosane (C25)	50.00	48.36	3.3	25
n-Hexacosane (C26)	50.00	49.84	0.3	25
n-Heptacosane (C27)	50.00	49.42	1.2	25
n-Octacosane (C28)	50.00	49.31	1.4	25
n-Nonacosane (C29)	50.00	49.26	1.5	25
n-Triacontane (C30)	50.00	49.40	1.2	25
n-Hentriacontane (C31)	50.00	51.77	3.5	25
n-Dotriacontane (C32)	50.00	49.30	1.4	25
n-Tritriacontane (C33)	50.00	49.86	0.3	25
n-Tetratriacontane (C34)	50.00	49.63	0.7	25
n-Pentatriacontane (C35)	50.00	49.76	0.5	25
n-Hexatriacontane (C36)	50.00	49.71	0.6	25
n-Heptatriacontane (C37)	50.00	47.69	4.6	25
n-Octatriacontane (C38)	50.00	49.78	0.4	25
n-Tetracontane (C40)	50.00	50.30	0.6	25
ortho-Terphenyl	50.00	48.61	2.8	25
d50-Tetracosane	50.00	45.76	8.5	25

Area Response Ratio C30 to C20	Ratio
(Area C30/Area C20)	1.04

N/A - Not Applicable

02/14/06 16:11

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08.SEC\
Data File : P18108.D
Signal(s) : FID2B.CH
Acq On : 10 Feb 2006 5:19 pm
Operator : AC
Sample : C1021001-AFID
Misc :
ALS Vial : 51 Sample Multiplier: 1

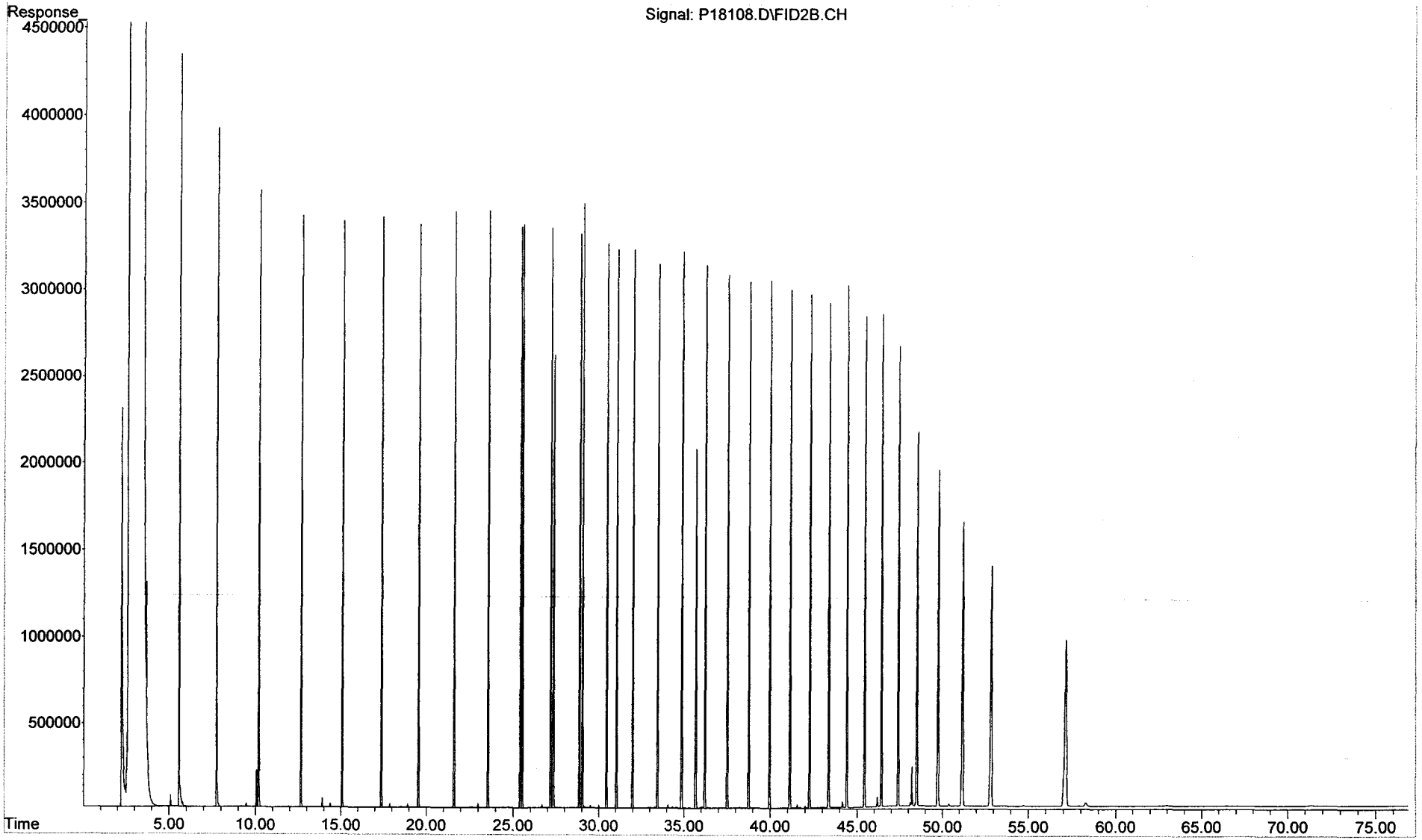
Integration File: SHCINT1.E
Quant Time: Feb 14 09:42:03 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.06	74798011	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.05	78816231	48.614 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	97.23%
24) s	d50-Tetracosane	35.70	66487315	45.756 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	91.51%
	Target Compounds			
2) t	n-Octane (C8)	5.59	57811661	47.938 ug/mLm
3) t	n-Nonane (C9)	7.74	63963185	48.100 ug/mLm
4) t	n-Decane (C10)	10.19	65941808	48.370 ug/mLm
5) t	n-Undecane (C11)	12.68	66716663	48.330 ug/mLm
6) t	n-Dodecane (C12)	15.09	68780477	48.899 ug/mLm
7) t	n-Tridecane (C13)	17.39	69589102	48.833 ug/mLm
9) t	n-Tetradecane (C14)	19.57	70903312	48.964 ug/mLm
11) t	n-Pentadecane (C15)	21.63	71560790	48.812 ug/mLm
12) t	n-Hexadecane (C16)	23.58	72057919	48.693 ug/mLm
14) t	n-Heptadecane (C17)	25.44	73235387	48.880 ug/mLm
15) t	Pristane	25.55	70053647	48.941 ug/mLm
16) t	n-Octadecane (C18)	27.20	73615105	49.002 ug/mLm
17) t	Phytane	27.36	73476586	49.338 ug/mLm
18) t	n-Nonadecane (C19)	28.88	73338156	49.130 ug/mLm
20) t	n-Eicosane (C20)	30.48	73676686	49.502 ug/mLm
21) t	n-Heneicosane (C21)	32.01	75427841	49.111 ug/mLm
22) t	n-Docosane (C22)	33.48	72329775	47.690 ug/mLm
23) t	n-Tricosane (C23)	34.89	75232307	49.262 ug/mLm
25) t	n-Tetracosane (C24)	36.24	74999600	48.516 ug/mLm
26) t	n-Pentacosane (C25)	37.54	75441994	48.360 ug/mLm
27) t	n-Hexacosane (C26)	38.79	75942118	49.844 ug/mLm
28) t	n-Heptacosane (C27)	40.00	75019799	49.418 ug/mLm
29) t	n-Octacosane (C28)	41.16	76061520	49.310 ug/mLm
30) t	n-Nonacosane (C29)	42.29	77652039	49.257 ug/mLm
31) t	n-Triacontane (C30)	43.38	76358944	49.397 ug/mLm
32) t	n-Hentriacontane (C31)	44.43	77429138	51.766 ug/mLm
33) t	n-Dotriacontane (C32)	45.46	74384977	49.297 ug/mLm
34) t	n-Tritriacontane (C33)	46.45	76039723	49.863 ug/mLm
35) t	n-tetratriacontane (C34)	47.43	76880288	49.630 ug/mLm
36) t	n-Pentatriacontane (C35)	48.53f	74146608	49.762 ug/mLm
37) t	n-Hexatriacontane (C36)	49.78f	76300071	49.711 ug/mLm
38) t	n-Heptatriacontane (C37)	51.22f	78558986	47.692 ug/mLm
39) t	n-Octatriacontane (C38)	52.89f	77104040	49.776 ug/mLm
41) t	n-Tetracontane (C40)	57.16f	77292862	50.300 ug/mLm

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB08.SEC\P18108.D
Operator : AC
Acquired : 10 Feb 2006 5:19 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: C1021001-AFID
Misc Info :
Vial Number: 51



Form VII
Calibration Verification
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1021002**
Case: **N/A** SDG: **N/A**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
n-Nonane (C9)	50.00	48.07	3.9	25
n-Decane (C10)	50.00	48.37	3.3	25
n-Undecane (C11)	50.00	48.35	3.3	25
n-Dodecane (C12)	50.00	48.89	2.2	25
n-Tridecane (C13)	50.00	48.79	2.4	25
n-Tetradecane (C14)	50.00	48.89	2.2	25
n-Pentadecane (C15)	50.00	48.72	2.6	25
n-Hexadecane (C16)	50.00	48.60	2.8	25
n-Heptadecane (C17)	50.00	48.76	2.5	25
Pristane	50.00	48.82	2.4	25
n-Octadecane (C18)	50.00	48.84	2.3	25
Phytane	50.00	49.20	1.6	25
n-Nonadecane (C19)	50.00	49.00	2.0	25
n-Eicosane (C20)	50.00	49.31	1.4	25
n-Heneicosane (C21)	50.00	48.89	2.2	25
n-Docosane (C22)	50.00	47.44	5.1	25
n-Tricosane (C23)	50.00	49.00	2.0	25
n-Tetracosane (C24)	50.00	48.23	3.5	25
n-Pentacosane (C25)	50.00	48.05	3.9	25
n-Hexacosane (C26)	50.00	49.52	1.0	25
n-Heptacosane (C27)	50.00	49.09	1.8	25
n-Octacosane (C28)	50.00	48.99	2.0	25
n-Nonacosane (C29)	50.00	48.92	2.2	25
n-Triacontane (C30)	50.00	49.07	1.9	25
n-Hentriacontane (C31)	50.00	51.46	2.9	25
n-Dotriacontane (C32)	50.00	48.97	2.1	25
n-Tritriacontane (C33)	50.00	49.52	1.0	25
n-Tetratriacontane (C34)	50.00	49.28	1.4	25
n-Pentatriacontane (C35)	50.00	49.42	1.2	25
n-Hexatriacontane (C36)	50.00	49.48	1.0	25
n-Heptatriacontane (C37)	50.00	47.35	5.3	25
n-Octatriacontane (C38)	50.00	49.41	1.2	25
n-Tetracontane (C40)	50.00	49.85	0.3	25
ortho-Terphenyl	50.00	48.52	3.0	25
d50-Tetracosane	50.00	45.44	9.1	25

Area Response Ratio C30 to C20	Ratio
(Area C30/Area C20)	1.03

N/A - Not Applicable

02/14/06 16:11

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08.SEC\
Data File : P18126.D
Signal(s) : FID2B.CH
Acq On : 11 Feb 2006 7:23 am
Operator : AC
Sample : C1021002-AFID
Misc : ALK STD
ALS Vial : 60 Sample Multiplier: 1

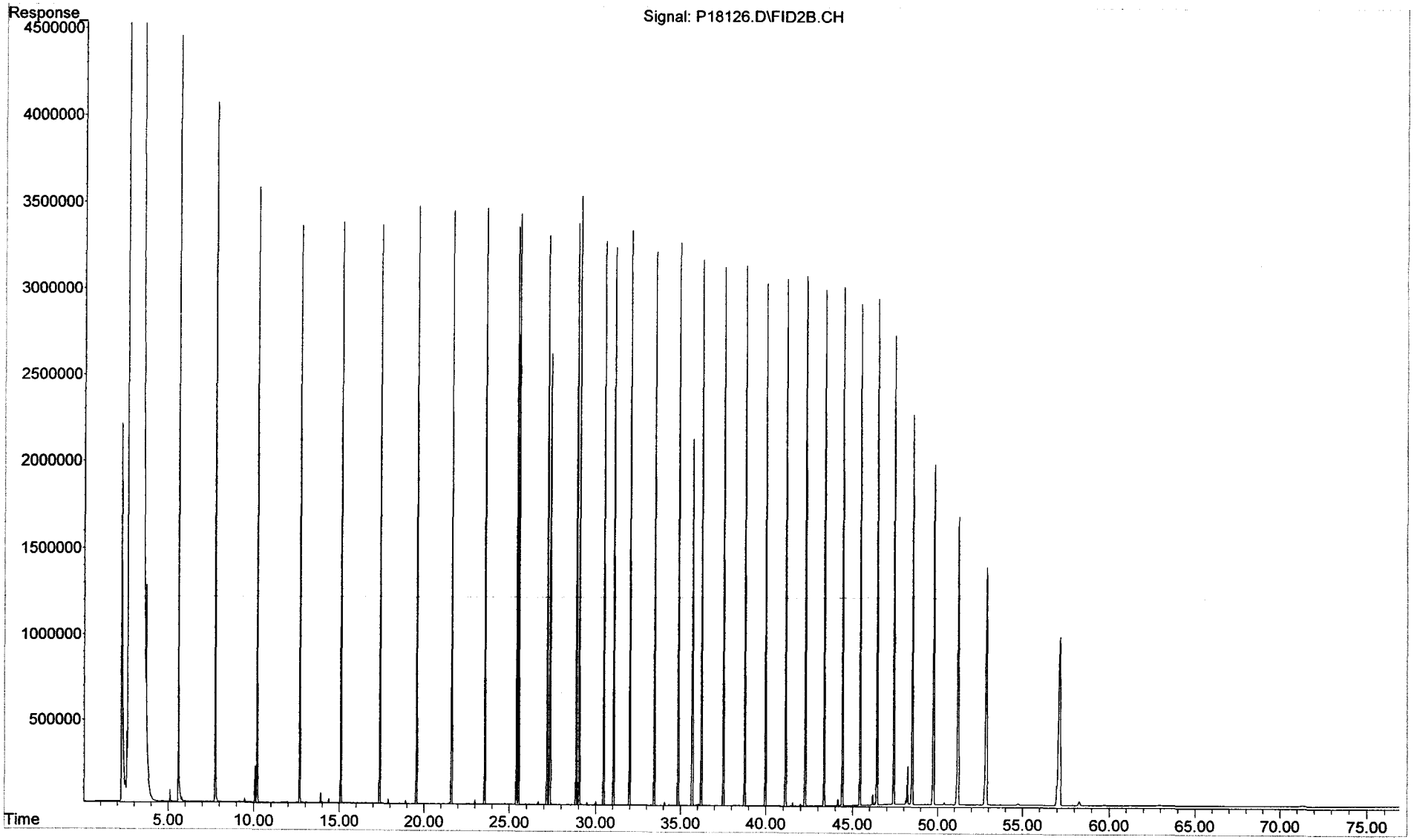
Integration File: SHCINT1.E
Quant Time: Feb 14 11:05:47 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.06	76769041	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.05	80732651	48.518 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 97.04%
24) s	d50-Tetracosane	35.70	67769479	45.441 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 90.88%
	Target Compounds			
2) t	n-Octane (C8)	5.60	59164434	47.800 ug/mLm
3) t	n-Nonane (C9)	7.75	65604735	48.068 ug/mLm
4) t	n-Decane (C10)	10.19	67685027	48.374 ug/mLm
5) t	n-Undecane (C11)	12.68	68508994	48.354 ug/mLm
6) t	n-Dodecane (C12)	15.10	70573759	48.886 ug/mLm
7) t	n-Tridecane (C13)	17.40	71356883	48.788 ug/mLm
9) t	n-Tetradecane (C14)	19.57	72661418	48.890 ug/mLm
11) t	n-Pentadecane (C15)	21.63	73309666	48.721 ug/mLm
12) t	n-Hexadecane (C16)	23.58	73810382	48.597 ug/mLm
14) t	n-Heptadecane (C17)	25.44	74982119	48.761 ug/mLm
15) t	Pristane	25.55	71724911	48.822 ug/mLm
16) t	n-Octadecane (C18)	27.20	75308857	48.842 ug/mLm
17) t	Phytane	27.36	75196529	49.197 ug/mLm
18) t	n-Nonadecane (C19)	28.88	75063721	48.995 ug/mLm
20) t	n-Eicosane (C20)	30.48	75322063	49.309 ug/mLm
21) t	n-Heneicosane (C21)	32.01	77065029	48.889 ug/mLm
22) t	n-Docosane (C22)	33.47	73845058	47.439 ug/mLm
23) t	n-Tricosane (C23)	34.88	76800017	48.997 ug/mLm
25) t	n-Tetracosane (C24)	36.24	76522324	48.230 ug/mLm
26) t	n-Pentacosane (C25)	37.54	76932910	48.049 ug/mLm
27) t	n-Hexacosane (C26)	38.79	77444614	49.525 ug/mLm
28) t	n-Heptacosane (C27)	39.99	76490199	49.093 ug/mLm
29) t	n-Octacosane (C28)	41.16	77559473	48.990 ug/mLm
30) t	n-Nonacosane (C29)	42.29	79155872	48.922 ug/mLm
31) t	n-Triacontane (C30)	43.38	77851219	49.069 ug/mLm
32) t	n-Hentriacontane (C31)	44.43	78995784	51.457 ug/mLm
33) t	n-Dotriacontane (C32)	45.45	75837541	48.969 ug/mLm
34) t	n-Tritriacontane (C33)	46.44	77511614	49.523 ug/mLm
35) t	n-tetratriacontane (C34)	47.43	78346274	49.278 ug/mLm
36) t	n-Pentatriacontane (C35)	48.52f	75571875	49.416 ug/mLm
37) t	n-Hexatriacontane (C36)	49.77f	77944254	49.478 ug/mLm
38) t	n-Heptatriacontane (C37)	51.21f	80047186	47.348 ug/mLm
39) t	n-Octatriacontane (C38)	52.88f	78554193	49.410 ug/mLm
41) t	n-Tetracontane (C40)	57.16f	78620443	49.850 ug/mLm

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB08.SEC\P18126.D
Operator : AC
Acquired : 11 Feb 2006 7:23 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: C1021002-AFID
Misc Info : ALK STD
Vial Number: 60



Form VII
Calibration Verification
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1021003**
Case: **N/A** SDG: **N/A**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
n-Nonane (C9)	50.00	48.78	2.4	25
n-Decane (C10)	50.00	48.53	2.9	25
n-Undecane (C11)	50.00	48.39	3.2	25
n-Dodecane (C12)	50.00	48.93	2.1	25
n-Tridecane (C13)	50.00	48.88	2.2	25
n-Tetradecane (C14)	50.00	49.02	2.0	25
n-Pentadecane (C15)	50.00	48.89	2.2	25
n-Hexadecane (C16)	50.00	48.79	2.4	25
n-Heptadecane (C17)	50.00	48.97	2.1	25
Pristane	50.00	49.04	1.9	25
n-Octadecane (C18)	50.00	49.07	1.9	25
Phytane	50.00	49.46	1.1	25
n-Nonadecane (C19)	50.00	49.22	1.6	25
n-Eicosane (C20)	50.00	49.56	0.9	25
n-Heneicosane (C21)	50.00	49.16	1.7	25
n-Docosane (C22)	50.00	48.27	3.5	25
n-Tricosane (C23)	50.00	49.28	1.4	25
n-Tetracosane (C24)	50.00	48.49	3.0	25
n-Pentacosane (C25)	50.00	48.36	3.3	25
n-Hexacosane (C26)	50.00	49.87	0.3	25
n-Heptacosane (C27)	50.00	49.44	1.1	25
n-Octacosane (C28)	50.00	49.35	1.3	25
n-Nonacosane (C29)	50.00	49.33	1.3	25
n-Triacontane (C30)	50.00	49.46	1.1	25
n-Hentriacontane (C31)	50.00	51.83	3.7	25
n-Dotriacontane (C32)	50.00	49.44	1.1	25
n-Tritriacontane (C33)	50.00	49.94	0.1	25
n-Tetratriacontane (C34)	50.00	49.68	0.6	25
n-Pentatriacontane (C35)	50.00	49.86	0.3	25
n-Hexatriacontane (C36)	50.00	49.78	0.4	25
n-Heptatriacontane (C37)	50.00	47.76	4.5	25
n-Octatriacontane (C38)	50.00	49.75	0.5	25
n-Tetracontane (C40)	50.00	50.19	0.4	25
ortho-Terphenyl	50.00	48.69	2.6	25
d50-Tetracosane	50.00	45.75	8.5	25

Area Response Ratio C30 to C20	Ratio
(Area C30/Area C20)	1.04

N/A - Not Applicable

02/14/06 16:12

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB08.SEC\
Data File : P18148.D
Signal(s) : FID2B.CH
Acq On : 12 Feb 2006 12:35 am
Operator : AC
Sample : C1021003-AFID
Misc : ALK STD
ALS Vial : 71 Sample Multiplier: 1

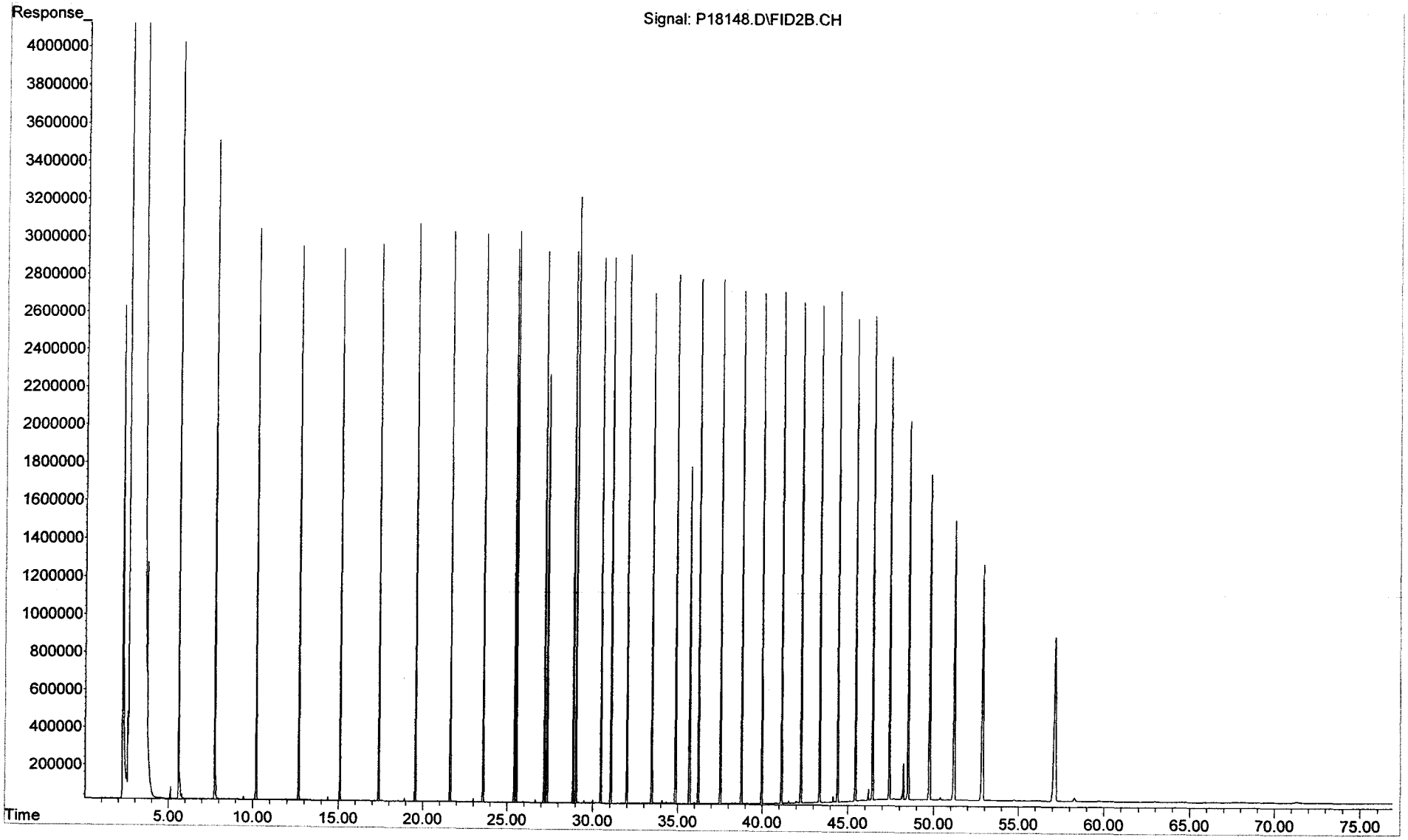
Integration File: SHCINT1.E
Quant Time: Feb 14 11:24:36 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.06	64342085	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.05	67905002	48.690 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 97.38%
24) s	d50-Tetracosane	35.70	57183866	45.749 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 91.50%
	Target Compounds			
2) t	n-Octane (C8)	5.60	52300985	50.416 ug/mLm
3) t	n-Nonane (C9)	7.75	55798061	48.779 ug/mLm
4) t	n-Decane (C10)	10.19	56906469	48.526 ug/mLm
5) t	n-Undecane (C11)	12.68	57465356	48.393 ug/mLm
6) t	n-Dodecane (C12)	15.09	59199117	48.926 ug/mLm
7) t	n-Tridecane (C13)	17.39	59914142	48.877 ug/mLm
9) t	n-Tetradecane (C14)	19.57	61055451	49.015 ug/mLm
11) t	n-Pentadecane (C15)	21.63	61655120	48.889 ug/mLm
12) t	n-Hexadecane (C16)	23.58	62103493	48.786 ug/mLm
14) t	n-Heptadecane (C17)	25.43	63117360	48.973 ug/mLm
15) t	Pristane	25.54	60388036	49.045 ug/mLm
16) t	n-Octadecane (C18)	27.19	63418234	49.075 ug/mLm
17) t	Phytane	27.36	63355767	49.456 ug/mLm
18) t	n-Nonadecane (C19)	28.88	63198729	49.218 ug/mLm
20) t	n-Eicosane (C20)	30.48	63450121	49.559 ug/mLm
21) t	n-Heneicosane (C21)	32.01	64949217	49.161 ug/mLm
22) t	n-Docosane (C22)	33.47	62977661	48.271 ug/mLm
23) t	n-Tricosane (C23)	34.88	64739265	49.280 ug/mLm
25) t	n-Tetracosane (C24)	36.23	64485684	48.494 ug/mLm
26) t	n-Pentacosane (C25)	37.53	64891629	48.356 ug/mLm
27) t	n-Hexacosane (C26)	38.79	65354456	49.865 ug/mLm
28) t	n-Heptacosane (C27)	39.99	64565418	49.443 ug/mLm
29) t	n-Octacosane (C28)	41.16	65477691	49.346 ug/mLm
30) t	n-Nonacosane (C29)	42.29	66892839	49.327 ug/mLm
31) t	n-Triacontane (C30)	43.37	65774127	49.464 ug/mLm
32) t	n-Hentriacontane (C31)	44.43	66681661	51.825 ug/mLm
33) t	n-Dotriacontane (C32)	45.45	64174665	49.442 ug/mLm
34) t	n-Tritriacontane (C33)	46.44	65514526	49.942 ug/mLm
35) t	n-tetratriacontane (C34)	47.43	66193232	49.675 ug/mLm
36) t	n-Pentatriacontane (C35)	48.52f	63907992	49.861 ug/mLm
37) t	n-Hexatriacontane (C36)	49.77f	65720134	49.776 ug/mLm
38) t	n-Heptatriacontane (C37)	51.21f	67669373	47.757 ug/mLm
39) t	n-Octatriacontane (C38)	52.89f	66288128	49.748 ug/mLm
41) t	n-Tetracontane (C40)	57.15f	66343919	50.191 ug/mLm

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\February06\FEB08.SEC\P18148.D
Operator : AC
Acquired : 12 Feb 2006 12:35 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: C1021003-AFID
Misc Info : ALK STD
Vial Number: 71



Form VII
Calibration Verification
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1021301**
Case: N/A SDG: N/A

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
n-Nonane (C9)	50.00	46.88	6.2	25
n-Decane (C10)	50.00	48.02	4.0	25
n-Undecane (C11)	50.00	48.20	3.6	25
n-Dodecane (C12)	50.00	48.79	2.4	25
n-Tridecane (C13)	50.00	48.75	2.5	25
n-Tetradecane (C14)	50.00	48.86	2.3	25
n-Pentadecane (C15)	50.00	48.70	2.6	25
n-Hexadecane (C16)	50.00	48.63	2.7	25
n-Heptadecane (C17)	50.00	48.83	2.3	25
Pristane	50.00	48.91	2.2	25
n-Octadecane (C18)	50.00	48.97	2.1	25
Phytane	50.00	49.32	1.4	25
n-Nonadecane (C19)	50.00	49.13	1.7	25
n-Eicosane (C20)	50.00	49.48	1.0	25
n-Heneicosane (C21)	50.00	49.09	1.8	25
n-Docosane (C22)	50.00	49.08	1.8	25
n-Tricosane (C23)	50.00	49.21	1.6	25
n-Tetracosane (C24)	50.00	48.44	3.1	25
n-Pentacosane (C25)	50.00	48.30	3.4	25
n-Hexacosane (C26)	50.00	49.80	0.4	25
n-Heptacosane (C27)	50.00	49.38	1.2	25
n-Octacosane (C28)	50.00	49.30	1.4	25
n-Nonacosane (C29)	50.00	49.25	1.5	25
n-Triacontane (C30)	50.00	49.41	1.2	25
n-Hentriacontane (C31)	50.00	51.79	3.6	25
n-Dotriacontane (C32)	50.00	49.33	1.3	25
n-Tritriacontane (C33)	50.00	49.90	0.2	25
n-Tetratriacontane (C34)	50.00	49.66	0.7	25
n-Pentatriacontane (C35)	50.00	49.82	0.4	25
n-Hexatriacontane (C36)	50.00	49.73	0.5	25
n-Heptatriacontane (C37)	50.00	47.70	4.6	25
n-Octatriacontane (C38)	50.00	49.72	0.6	25
n-Tetracontane (C40)	50.00	50.08	0.2	25
ortho-Terphenyl	50.00	48.68	2.6	25
d50-Tetracosane	50.00	45.68	8.6	25

Area Response Ratio C30 to C20	Ratio
(Area C30/Area C20)	1.04

N/A - Not Applicable

02/15/06 11:56

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB13.SEC\
Data File : P18178.D
Signal(s) : FID2B.CH
Acq On : 13 Feb 2006 3:24 pm
Operator : AC
Sample : C1021301-AFID
Misc : ALK STD
ALS Vial : 52 Sample Multiplier: 1

RPR
2/15/06

Integration File: SHCINT1.E
Quant Time: Feb 15 07:35:07 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.06	77484927	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.05	81761026	48.682 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	97.36%
24) s	d50-Tetracosane	35.70	68767017	45.684 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	91.37%
	Target Compounds			
2) t	n-Octane (C8)	5.59	57216957	45.799 ug/mLm
3) t	n-Nonane (C9)	7.74	64579021	46.880 ug/mLm
4) t	n-Decane (C10)	10.19	67812045	48.017 ug/mLm
5) t	n-Undecane (C11)	12.68	68926885	48.199 ug/mLm
6) t	n-Dodecane (C12)	15.10	71089391	48.788 ug/mLm
7) t	n-Tridecane (C13)	17.39	71969900	48.753 ug/mLm
9) t	n-Tetradecane (C14)	19.57	73295461	48.861 ug/mLm
11) t	n-Pentadecane (C15)	21.63	73966075	48.703 ug/mLm
12) t	n-Hexadecane (C16)	23.58	74551089	48.631 ug/mLm
14) t	n-Heptadecane (C17)	25.43	75791350	48.832 ug/mLm
15) t	Pristane	25.55	72520683	48.908 ug/mLm
16) t	n-Octadecane (C18)	27.20	76206061	48.968 ug/mLm
17) t	Phytane	27.36	76094970	49.325 ug/mLm
18) t	n-Nonadecane (C19)	28.88	75965898	49.126 ug/mLm
20) t	n-Eicosane (C20)	30.48	76287267	49.479 ug/mLm
21) t	n-Heneicosane (C21)	32.01	78106949	49.092 ug/mLm
22) t	n-Docosane (C22)	33.48	77118185	49.084 ug/mLm
23) t	n-Tricosane (C23)	34.89	77852608	49.210 ug/mLm
25) t	n-Tetracosane (C24)	36.24	77573294	48.441 ug/mLm
26) t	n-Pentacosane (C25)	37.54	78048035	48.295 ug/mLm
27) t	n-Hexacosane (C26)	38.79	78607373	49.804 ug/mLm
28) t	n-Heptacosane (C27)	40.00	77653846	49.380 ug/mLm
29) t	n-Octacosane (C28)	41.16	78771108	49.295 ug/mLm
30) t	n-Nonacosane (C29)	42.29	80426892	49.248 ug/mLm
31) t	n-Triacontane (C30)	43.38	79115569	49.405 ug/mLm
32) t	n-Hentriacontane (C31)	44.43	80253335	51.794 ug/mLm
33) t	n-Dotriacontane (C32)	45.46	77115071	49.334 ug/mLm
34) t	n-Tritriacontane (C33)	46.45	78836187	49.904 ug/mLm
35) t	n-tetratriacontane (C34)	47.44	79685715	49.657 ug/mLm
36) t	n-Pentatriacontane (C35)	48.53	76897041	49.818 ug/mLm
37) t	n-Hexatriacontane (C36)	49.79f	79067299	49.727 ug/mLm
38) t	n-Heptatriacontane (C37)	51.23f	81395531	47.701 ug/mLm
39) t	n-Octatriacontane (C38)	52.91f	79789225	49.723 ug/mLm
41) t	n-Tetracontane (C40)	57.18f	79725174	50.084 ug/mLm

(f)=RT Delta > 1/2 Window (m)=manual int.

```
File        :O:\Forensics\Data\PAH1\February06\FEB13.SEC\P18178.D
Operator    : AC
Acquired    : 13 Feb 2006   3:24 pm using AcqMethod FRNC1D.M
Instrument :   PAH-1
Sample Name: C1021301-AFID
Misc Info   : ALK STD
Vial Number: 52
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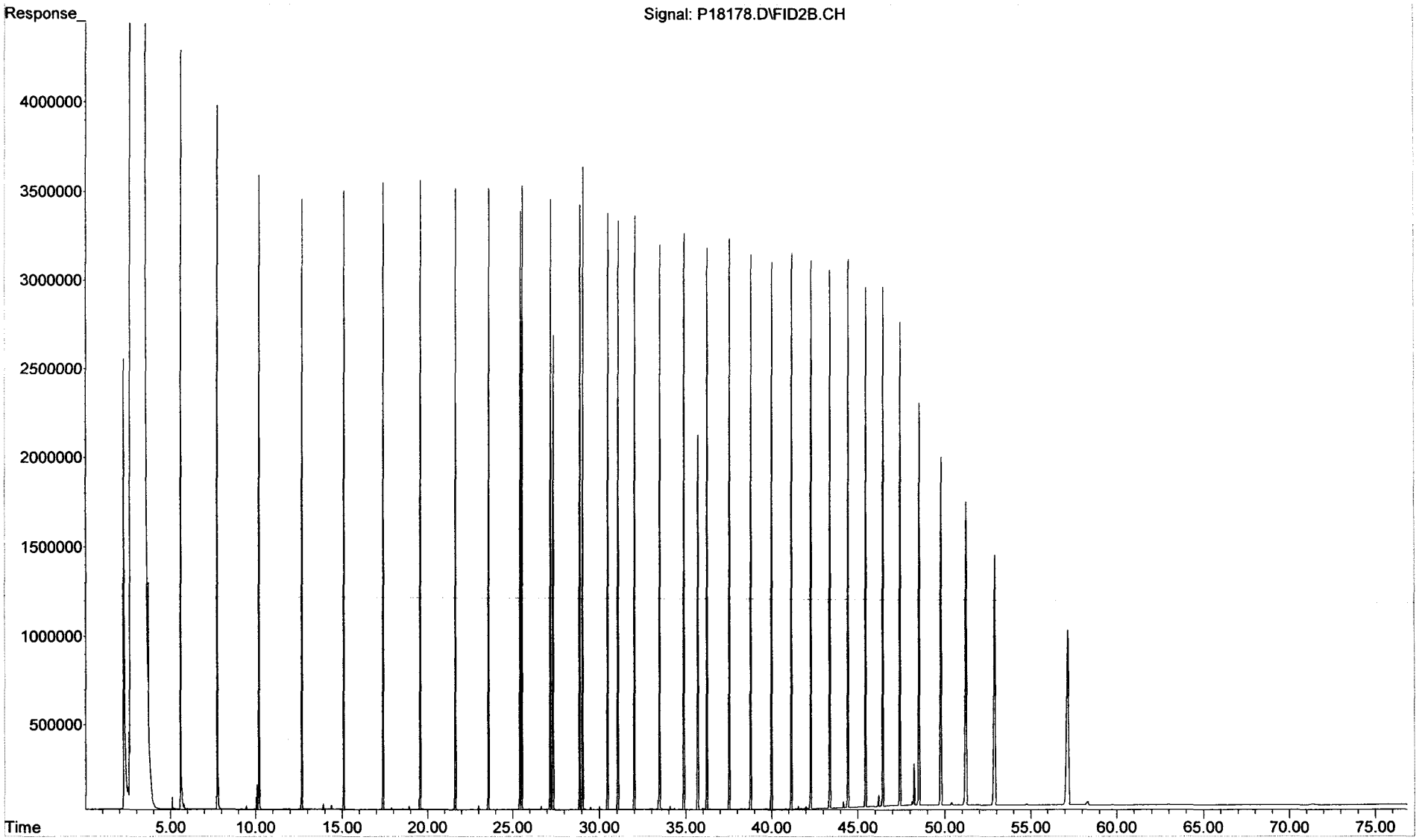

Form VII
Calibration Verification
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0601070**
Lab ID: **C1021302**
Case: **N/A** SDG: **N/A**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
n-Nonane (C9)	50.00	48.25	3.5	25
n-Decane (C10)	50.00	48.49	3.0	25
n-Undecane (C11)	50.00	48.43	3.1	25
n-Dodecane (C12)	50.00	48.96	2.1	25
n-Tridecane (C13)	50.00	48.84	2.3	25
n-Tetradecane (C14)	50.00	48.93	2.1	25
n-Pentadecane (C15)	50.00	48.71	2.6	25
n-Hexadecane (C16)	50.00	48.57	2.9	25
n-Heptadecane (C17)	50.00	48.72	2.6	25
Pristane	50.00	48.79	2.4	25
n-Octadecane (C18)	50.00	48.81	2.4	25
Phytane	50.00	49.17	1.7	25
n-Nonadecane (C19)	50.00	48.94	2.1	25
n-Eicosane (C20)	50.00	49.26	1.5	25
n-Heneicosane (C21)	50.00	48.85	2.3	25
n-Docosane (C22)	50.00	48.58	2.8	25
n-Tricosane (C23)	50.00	48.96	2.1	25
n-Tetracosane (C24)	50.00	48.17	3.7	25
n-Pentacosane (C25)	50.00	48.04	3.9	25
n-Hexacosane (C26)	50.00	49.54	0.9	25
n-Heptacosane (C27)	50.00	49.11	1.8	25
n-Octacosane (C28)	50.00	49.03	1.9	25
n-Nonacosane (C29)	50.00	48.95	2.1	25
n-Triacontane (C30)	50.00	49.13	1.7	25
n-Hentriacontane (C31)	50.00	51.45	2.9	25
n-Dotriacontane (C32)	50.00	49.02	2.0	25
n-Tritriacontane (C33)	50.00	49.59	0.8	25
n-Tetratriacontane (C34)	50.00	49.32	1.4	25
n-Pentatriacontane (C35)	50.00	49.46	1.1	25
n-Hexatriacontane (C36)	50.00	49.58	0.8	25
n-Heptatriacontane (C37)	50.00	47.38	5.2	25
n-Octatriacontane (C38)	50.00	49.39	1.2	25
n-Tetracontane (C40)	50.00	49.65	0.7	25
ortho-Terphenyl	50.00	48.60	2.8	25
d50-Tetracosane	50.00	45.43	9.1	25

Area Response Ratio C30 to C20	Ratio
(Area C30/Area C20)	1.04

N/A - Not Applicable

02/15/06 11:56

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\February06\FEB13.SEC\
Data File : P18188.D
Signal(s) : FID2B.CH
Acq On : 14 Feb 2006 12:45 am
Operator : AC
Sample : C1021302-AFID
Misc : ALK STD
ALS Vial : 57 Sample Multiplier: 1

RPR
2/15/06

Integration File: SHCINT1.E
Quant Time: Feb 15 07:45:41 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\OCTOBER05\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Feb 03 17:47:05 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.06	71650599	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.05	75476271	48.599 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 97.20%
24) s	d50-Tetracosane	35.69	63233717	45.429 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 90.86%
	Target Compounds			
2) t	n-Octane (C8)	5.59	55825378	48.324 ug/mLm
3) t	n-Nonane (C9)	7.74	61459347	48.248 ug/mLm
4) t	n-Decane (C10)	10.19	63319584	48.487 ug/mLm
5) t	n-Undecane (C11)	12.68	64039765	48.428 ug/mLm
6) t	n-Dodecane (C12)	15.09	65964109	48.957 ug/mLm
7) t	n-Tridecane (C13)	17.39	66668054	48.839 ug/mLm
9) t	n-Tetradecane (C14)	19.57	67877274	48.933 ug/mLm
11) t	n-Pentadecane (C15)	21.63	68407872	48.711 ug/mLm
12) t	n-Hexadecane (C16)	23.58	68854630	48.572 ug/mLm
14) t	n-Heptadecane (C17)	25.43	69928570	48.723 ug/mLm
15) t	Pristane	25.54	66900465	48.791 ug/mLm
16) t	n-Octadecane (C18)	27.19	70247487	48.814 ug/mLm
17) t	Phytane	27.36	70151595	49.175 ug/mLm
18) t	n-Nonadecane (C19)	28.88	69972679	48.935 ug/mLm
20) t	n-Eicosane (C20)	30.47	70233885	49.262 ug/mLm
21) t	n-Heneicosane (C21)	32.01	71871211	48.851 ug/mLm
22) t	n-Docosane (C22)	33.47	70575221	48.577 ug/mLm
23) t	n-Tricosane (C23)	34.88	71622511	48.958 ug/mLm
25) t	n-Tetracosane (C24)	36.23	71332586	48.171 ug/mLm
26) t	n-Pentacosane (C25)	37.53	71783034	48.036 ug/mLm
27) t	n-Hexacosane (C26)	38.79	72302824	49.540 ug/mLm
28) t	n-Heptacosane (C27)	39.99	71410952	49.107 ug/mLm
29) t	n-Octacosane (C28)	41.16	72445051	49.028 ug/mLm
30) t	n-Nonacosane (C29)	42.29	73927267	48.954 ug/mLm
31) t	n-Triacontane (C30)	43.38	72750855	49.130 ug/mLm
32) t	n-Hentriacontane (C31)	44.43	73712376	51.446 ug/mLm
33) t	n-Dotriacontane (C32)	45.45	70853873	49.019 ug/mLm
34) t	n-Tritriacontane (C33)	46.44	72434724	49.585 ug/mLm
35) t	n-tetratriacontane (C34)	47.43	73187352	49.322 ug/mLm
36) t	n-Pentatriacontane (C35)	48.53f	70589204	49.456 ug/mLm
37) t	n-Hexatriacontane (C36)	49.78f	72901092	49.583 ug/mLm
38) t	n-Heptatriacontane (C37)	51.22f	74763791	47.382 ug/mLm
39) t	n-Octatriacontane (C38)	52.89f	73289913	49.392 ug/mLm
41) t	n-Tetracontane (C40)	57.16f	73085563	49.651 ug/mLm

(f)=RT Delta > 1/2 Window (m)=manual int.

```
File        :O:\Forensics\Data\PAH1\February06\FEB13.SEC\P18188.D
Operator    : AC
Acquired    : 14 Feb 2006  12:45 am using AcqMethod FRNC1D.M
Instrument  :   PAH-1
Sample Name: C1021302-AFID
Misc Info   : ALK STD
Vial Number: 57
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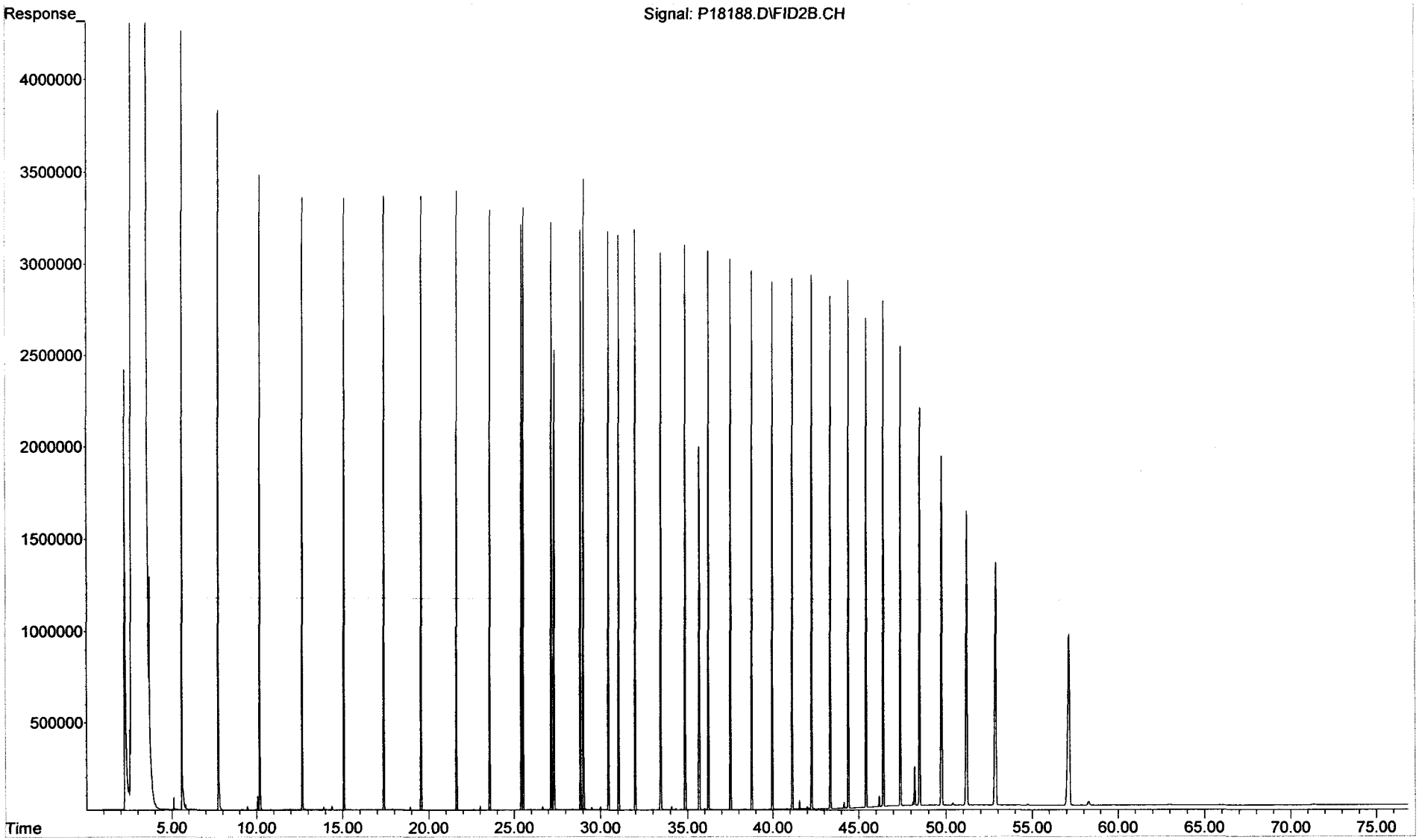

CHAIN OF CUSTODY RECORDS

Newfields 100 Ledgewood Place Suite 302 Rockland MA	**Chain of Custody Record** Page 1 of 1 Project Name: Gowanus Canal Investigation GEI Project No.: 982482-34-4403	Client: GEI Consultants Inc. 455 Winding Brook Dr Glastonbury CT 06033	Project Manager - Dave Terry Tel: 860-368-5300 Alt. Contact: Karen Swartz	Lab Job Number: 0601070

Sample ID	Date	Time	Matrix	Environmental Forensics (Includes Lead-210, Cesium 137, EPA 8015 Modified GC/FID Hydrocarbon Fingerprint, 8270 Modified GC/MS/SIM Extended PAH and Biomarkers)
GC-SED-46C (5-5.5) -1	1/23/2006	16:05	Sediment	☑
GC-SED-45C (1-1.5) -2	1/23/2006	16:35	Sediment	☑
GC-SED-55 (1.5-2.5) -3	1/24/2006	16:30	Sediment	☑
GC-SED-48 (5-5.8) -4	1/24/2006	17:35	Sediment	☑
GC-SED-49 (10-11) -5	1/24/2006	13:50	Sediment	☑
GC-SED-47 (1.5-2.5) -6	1/24/2006	14:35	Sediment	☑
GC-SED-78B (2.5-5) -7	1/25/2006	16:30	Sediment	☑
GC-SED-76C (2.5-3.4) -8	1/25/2006	16:45	Sediment	☑
GC-SED-75C (0-0.7) -9	1/25/2006	15:35	Sediment	☑

Possible Hazard Identification	Turn Around Time Required (other than standard):				
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☒ Unknown	QC Requirements:				
	Date	Time		Date	Time
1. Relinquished by: Melissa A Felter	1/25/06	1800	1. Received by: FED Ex		
2. Relinquished by: FED Ex	1/26/06	0855	2. Received by: [signature]	1/26/06	0855
3. Relinquished by:			3. Received by:		

COMMENTS
FedEx # 8544 0600 2975

ORIGINAL

Sample Receipt Checklist

Client: NAVFAC	**Receipt Date:** 1/26/06		
Project: GOWANUS	**Log-in Date:**		
ETR #: 0601070	**Inspection by:** ur	**Login by:** ur	

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? (Yes, FedEx) / UPS / Other:_____
No, WHG Courier pick-up / Hand delivered

Is bill of lading retained? Yes, Tracking #: Attached
No, Unavailable / NA

Number of coolers received for this project delivery: 1

Indicate cooler temperature upon opening (if multiple coolers, record all temps):

Note: If all coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note all samples received *above* 6°C.

Cooler 1:
Temperature(s) taken from: 6° IR Gun, _____Temp. Blank, / NA

Were samples received on ice? (Yes) / No

Chain-of-Custody present? (Yes) / No
Complete? (Yes) / No

Custody seals present on Cooler? Yes / (No)
on Bottles? Yes / (No)
Intact? Yes / No / (NA)

Note: Affix custody seals to back of this page.

Were sample containers intact? (Yes) / No If No, list samples: →

Did VOA/VPH waters contain headspace (>5mm)? Yes / No (NA) If Yes, list samples: →

Were 5035 VOA soils, or VPH soils, *covered* with MeOH? Yes / No / (NA)
If No, list samples: →

Was a sufficient amount of sample received for each test indicated on the COC?
(Yes) / No If No, list samples: →

If chemical preservation is appropriate -
Were samples field preserved? Yes / No / (NA)
☐ C=HCl ☐ M=MeOH ☐ S=H_2SO4
☐ H=NaOH ☐ N=HNO_3 ☐ Other:_____ ☐ U= Unknown

Preservation (pH) verified at lab for *EVERY* bottle? (Not: VOA / VPH / Sulfide)
YES: <2 or >12 (CN) or NO (NA)
If No, why?:

Were samples received within hold time? (Yes) / No If No, list samples: →

Discrepancy between samples rec'd & COC ? (Yes) / No If Yes, list samples: →

Was the Project Manager notified of any other problems? Yes / No / (NA)

Project Manager Acknowledgement: EMP Date: 1/26/06

Sample storage refrigerator #: C1

Sample storage freezer #:_____

Cooler 2:_____ Cooler 3:_____

Cooler 4:_____ Cooler 5:_____

Cooler 6:_____ Cooler 7:_____

More:_____

Labels on jars do not match info on jar caps:

	CAP	LABEL
(1)	GC-SED 47 (1.5-2.5)	GC-SED-48 (5.5-5.8)
(2)	GC-SED-48 (5.5-5.8)	GC-SED-47 (1.5-2.5)

Chemical preservation OK for ALL samples?
Yes / No / (N/A)

If No, list samples below:

- ID's used per "cap" see email attached

Please use back for any additional notes!

Woods Hole Group Environmental Laboratories
Raynham, Massachusetts

m This portion can be removed for Recipient's records.

te 1-25-06 FedEx Tracking Number 854406002975

nder's me Melissa Felter Phone 860 368-5300

Company GEI CONSULTANTS INC

Address SMITH & LUQUER ST

Dept./Floor/Suite/Room

BROOKLYN State NY ZIP 11231

ur Internal Billing Reference 982482.34-9403

Liz Porta

From: "Ted Healey" <ehealey@newfields.com>
To: "'Liz Porta'" <eporta@alphalab.com>
Cc: "'Cassie Mosher'" <cmosher@alphalab.com>
Sent: Friday, January 27, 2006 10:49 AM
Subject: Gowanus Canal ID Issue with ETR 0601070

Please see the sample receipt checklist where a jar/cap mix up occurred on two samples. I have heard from the client that we should go with the label on the cap and not the jar so I believe you will have to make an ID change. You can let me know but I believe you went with the label on the jar but please check so this is correct now.
Thanks

Ted

Ted Healey
Staff Scientist
NewFields Environmental Forensics Practice, LLC
100 Ledgewood Place, Suite 302
Rockland, MA 02370
781-681-5040 X 109
781-681-5048 (FAX)
ehealey@newfields.com
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