



August 9, 1999

42633.1

Mr. John Prall
Associate Environmental Scientist
Port of Oakland
530 Water Street
Oakland, California 94607

PORT OF OAKLAND
ENVIRONMENTAL DIVISION

AUG 23 1999
R E C E I V E D
ENVIRONMENTAL DIVISION

**Quarterly Groundwater Monitoring
and Product Recovery Report
2nd Quarter of 1999
2277 Seventh Street
Oakland, California**

Dear Mr. Prall:

Harding Lawson Associates (HLA) has prepared this Quarterly Groundwater Monitoring and Product Recovery Report on behalf of the Port of Oakland for the groundwater monitoring and the operation of the product recovery system at 2277 Seventh Street in Oakland, California (Plate 1) between April 1, 1999 and June 30, 1998.

This report summarizes monitoring and sampling of five groundwater monitoring wells, MW-2, MW-4, MW-5, MW-6, and MW-7 and the operation and maintenance activities of the product recovery system during the second quarter of 1999 (Plate 2). MW-3 and MW-1 contain product skimmers that recover separate-phase petroleum hydrocarbons. MW-8 is not monitored because it contains a thick viscous tar-like substance.

The monitoring wells were installed at the site by others to assess groundwater quality following the removal of underground storage tanks (USTs) from the site in September 1993. The former USTs consisted of two 10,000-gallon gasoline tanks (CF-17 and CF-18), one 500-gallon oil tank (CF-19), and one 300-gallon waste oil tank (CF-20).

MONITORING AND SAMPLING OF MONITORING WELLS

HLA conducted the groundwater monitoring and sampling at 2277 7th Street on June 24, 1999. Prior to purging and sampling the monitoring wells, HLA measured the depth to water with an electric water level indicator. HLA also measured the product level thickness in wells MW-1 and MW-3. Groundwater level measurements are summarized in Table 1, groundwater elevations are presented on Plate 3, and product thickness measurements are summarized on Table 2. HLA did not use the groundwater level measurements



August 3, 1999
42633.1
Mr. John Prall
Associate Environmental Scientist
Port of Oakland
Page 2

from MW-1, MW-3, and MW-8 to calculate groundwater elevations presented on Plate 2 because MW-1, MW-3, and MW-6 contained product recovery equipment and because the thick viscous product in MW-8 prevents groundwater level measurements.

After the depth to water was measured, HLA purged MW-2, MW-4, MW-5, MW-6, and MW-7 using a PVC bailer. Conductivity, pH, and temperature were monitored periodically during purging. Sampling was not performed until at least three well casing volumes of water were removed and conductivity, pH, and temperature measurements had stabilized to within 10 percent. The depths to groundwater and field parameter measurements were recorded on Groundwater Sampling Forms included in Appendix A. The Port waste disposal contractor, Performance Excavators, Inc, disposed of the purge water.

HLA collected groundwater samples from the five monitoring wells using a Teflon disposable bailer and then transferred the groundwater into laboratory-provided containers. A duplicate sample was collected from MW-4. Sample containers were labeled with the sample number, date and time of collection, and sampler's initials, then placed in an insulated cooler with blue ice. The samples were accompanied by a laboratory provided trip blank and delivered to Curtis and Thompkins, Ltd., a California-state certified laboratory, under chain-of-custody protocol.

LABORATORY ANALYSIS GROUNDWATER SAMPLES

Curtis and Tompkins, Ltd. performed the chemical analyses of the groundwater samples using the following analytical methods:

- Total petroleum hydrocarbons as gasoline (TPHg) in accordance with EPA Method 8015 modified.
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl t-butyl ether (MTBE) in accordance with Method 8021B.
- Total petroleum hydrocarbons as diesel (TPHd) in accordance with Modified EPA Method 8015 following a silica-gel cleanup procedure.
- TPH as motor oil (TPHmo) in accordance with Modified EPA Method 8015 following a silica-gel cleanup procedure.

The trip blank was analyzed for BTEX and MTBE. The laboratory results for the groundwater samples are summarized in Table 3 and are shown on Plate 4. Copies of the laboratory results and chain-of-custody forms are provided in Appendix B.

FINDINGS

Results of the June 24, 1999, groundwater monitoring and sampling are summarized below:

August 3, 1999
42633.1
Mr. John Prall
Associate Environmental Scientist
Port of Oakland
Page 3

FINDINGS

Results of the June 24, 1999, groundwater monitoring and sampling are summarized below:

- Separate-phase hydrocarbons were observed in monitoring wells MW-1, MW-3 and MW-8.
- TPHg was reported at a concentration of 190 micro grams per liter ($\mu\text{g/l}$) in MW-4, 120 $\mu\text{g/l}$ in MW-6, and 73 $\mu\text{g/l}$ in MW-7. TPHg was not detected in MW-2 or MW-5.
- Benzene was reported at a concentration of 360 $\mu\text{g/l}$ in MW-4, at 18 $\mu\text{g/l}$ in MW-6 and was not detected in MW-2, MW-5, or MW-7.
- Toluene was reported at a concentration of 1.4 $\mu\text{g/l}$ in MW-4, at 0.86 $\mu\text{g/l}$ in MW-6 and was not detected in MW-2, MW-5, or MW-7.
- Ethylbenzene was reported at a concentration of 2.2 $\mu\text{g/l}$ in MW-4 and 1 $\mu\text{g/l}$ in MW-6 and was not detected in MW-2, MW-5, or MW-7.
- Total xylenes were reported at concentration of 1 $\mu\text{g/l}$ in MW-4 and were not detected in MW-2, MW-5, MW-6, or MW-7.
- MTBE was reported at a concentration of 24 $\mu\text{g/l}$ in MW-4, at 3.1 $\mu\text{g/l}$ in MW-5, at 54 $\mu\text{g/l}$ in MW-6, at 12 $\mu\text{g/l}$ in MW-7 and was not detected in MW-2.
- TPHd was reported at a concentration of 1,700 $\mu\text{g/l}$ in MW-6 and was not detected in MW-2, MW-4, MW-5, and MW-7.
- TPHmo was not detected above the reporting limit in any of the wells sampled.

QUALITY ASSURANCE AND QUALITY CONTROL

- BTEX and MTBE were not detected in the trip blank.
- The relative percent difference between the analytical results from MW-4 and the duplicate sample ranged from zero to 45 percent.
- Because of a handling error by the laboratory, the total extractable hydrocarbon (TPHd and TPHmo) sample from MW-6 was re-extracted. When analyzed, the hexacosane surrogate recovery was 36 percent, below acceptable range of 58 to 128 percent. The concentrations of TPHd and TPHmo reported by the laboratory in the groundwater sample from MW-6 may be lower than actual.

August 3, 1999
42633.1
Mr. John Prall
Associate Environmental Scientist
Port of Oakland
Page 4


skimmer as well, however, during the fourth quarter of 1998 and the first quarter of 1999, HLA did not observed separate-phase product in MW-6 and the skimmer was removed on April 19, 1999. HLA removed product from the passive skimmer at MW-1 three times during this reporting period. The total volume of product recovered from MW-1 during the second quarter of 1999 was 0.6 gallons. The Port's waste disposal contractor, Performance Excavators, Inc., removed product from the product recovery tank on July 16, 1999. The total product removed was an estimated to be 310 gallons, primarily consisting of product discharged by the active skimmer in MW-3. Table 2 presents product removal data. A summary of the activities during the past quarter associated with the operation and maintenance of the product recovery system is presented in Table 4.

If you have any questions, please contact James McCarty at (510) 628-3220.

Yours very truly,

HARDING LAWSON ASSOCIATES


James G. McCarty
Project Engineer


Stephen J. Osborne
Geotechnical Engineer



JGM/jgm/mlw 42633\037300L

- Attachments:
- Table 1 – Groundwater Elevations Data
 - Table 2 – Summary of Product Removal and Product Thickness Data
 - Table 3 – Groundwater Sample Results
 - Table 4 – Summary of Operation and Maintenance Activities
 - Plate 1 – Vicinity Map
 - Plate 2 – Site Plan
 - Plate 3 – Groundwater Elevations, June 24, 1999
 - Plate 4 – Groundwater Sample Results, June 24, 1999
 - Appendix A - Groundwater Sampling Forms
 - Appendix B - Laboratory Reports

TABLES

**Table 1. Groundwater Elevations Data
Port of Oakland
2277 7th Street, Oakland California**

Well ID	Elevation Top of Casing (feet)	Date Of Monitoring	Depth to Water (feet)	Groundwater Elevation (feet)
MW-2	14.36	12/31/97	8.73	5.63
		4/13/98	7.72	6.64
		11/6/98	9.43	4.93
		3/19/99	8.21	6.15
		6/24/99	8.91	5.45
MW-4	13.15	12/31/97	7.09	6.06
		4/13/98	7.71	5.44
		11/6/98	8.69	4.46
		3/19/99	8.00	5.15
		6/24/99	8.45	4.7
MW-5	13.49	12/31/97	6.38	7.11
		4/13/98	5.56	7.93
		11/6/98	9.56	3.93
		3/19/99	6.20	7.29
		6/24/99	6.73	6.76
MW-6	14.00	6/24/99	8.61	5.39
MW-7	14.35	12/31/97	8.88	5.47
		4/13/98	7.86	6.49
		11/6/98	9.55	4.80
		3/19/99	8.41	5.94
		6/24/99	9.08	5.27

¹ Elevation data relative to Port of Oakland datum; well surveys performed on September 12, 1996, and February 4, 1998, by PLS Surveys.

- Data prior to November 6, 1998 taken from *Groundwater Monitoring, Sampling and Product Removal System O&M Report* dated July 21, 1998, by Innovative Technical Solutions, Inc.

**Table 2. Product Removal and Product Thickness Data
Port of Oakland
2277 7th Street, Oakland California**

Well ID	Elevation of Top of Casing ¹ (feet)	Date Of Monitoring	Depth to Free Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Estimated Product Removed (gallons)	Product Removal Method ²
MW-1	14.14	12/31/97	-	-	-	0.2	passive skimmer
		1/29/98	-	-	-	0.2	passive skimmer
		3/2/98	-	-	-	0.018	passive skimmer
		5/11/98	-	-	-	0.02	passive skimmer
		6/15/98	-	-	-	0.2	passive skimmer
		11/6/98	9.34	10.3	0.96	1.2	passive skimmer
		1/7/99	-	-	-	0.2	passive skimmer
		2/11/99	-	-	-	0.2	passive skimmer
		3/12/99	-	-	-	0.2	passive skimmer
		3/19/99	NM	8.45	>0.01	0.07	passive skimmer
		4/14/99	-	-	-	0.2	passive skimmer
		5/11/99	-	-	-	0.2	passive skimmer
		6/24/99	8.88	9.63	0.8	0.2	passive skimmer
		MW-3	14.22	12/31/97	-	-	-
1/29/98	-			-	-	10	active skimmer
4/13/98	-			-	-	240	active skimmer
5/11/98	-			-	-	1,545	active skimmer
6/15/98	-			-	-	1,950	active skimmer
11/6/98	8.84			9.94	1.1	500	active skimmer
1/5/99	-			-	-	275 ²	active skimmer
1/14/99	-			-	-	400 ²	active skimmer
2/3/99	-			-	-	400 ²	active skimmer
2/26/99	-			-	-	570 ²	active skimmer
3/19/99	7.52			8.05	0.5	211	active skimmer
6/16/99	-			-	-	310	active skimmer
6/24/99	8.38	8.56	0.2	-	active skimmer		
MW-6	14.00	13/31/97	-	-	-	0.0014	passive skimmer
		1/29/98	-	-	-	0.0014	passive skimmer
		3/2/98	-	-	-	0.0014	passive skimmer
		11/6/98	NM	9.62	>0.01	0.0	passive skimmer
		3/19/99	NM	7.37	>0.01	0.0	passive skimmer
MW-8 ¹	12.94	12/31/97	8.49	8.82	0.33	4.38	-
		11/6/98	9.25	10.3	1.1	3.48	-

- Data prior to November 6, 1998 taken from *Groundwater Monitoring, Sampling and Product Removal System O&M Report* dated July 21, 1998, by Innovative Technical Solutions, Inc.
- Data prior to November 6, 1998 taken from *Groundwater Monitoring, Sampling and Product Removal System O&M Report* dated July 21, 1998, by Innovative Technical Solutions, Inc.
- Product removal volumes from 11/6/98 on represent total product removed during that reporting period.

¹ Free product in well is too viscous to allow product thickness or groundwater level measurements.

² Product removal totals for MW-3 are estimated from documentation of product removal from the treatment system performed by Performance Excavators, Inc.

NM - Well checked for free product but was not able to detect a measurable amount in the well.

Greyed areas indicates data from this reporting period.

Table 3. Groundwater Sample Result
Port of Oakland
2277 7th Street, Oakland California

Monitoring Well ID	Date	TPHg (µg/l)	TPHd (µg/l)	TPHmo (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)	
MW-2	05/27/94	87	470	NA	<0.5	<0.5	<0.5	<0.5	NA	
	03/29/95	<50	110	1,400	<0.4	<0.3	<0.3	<0.4	NA	
	09/06/95	<50	NA	NA	<0.4	<0.3	<0.3	<0.4	NA	
	01/08/96	<50	<50	1200	<0.4	<0.3	<0.3	<0.4	NA	
	04/04/96	<50	160	320	<0.5	<0.5	<0.5	<1.0	NA	
	07/10/96	<50	120	1400	<0.4	<0.3	<0.3	<0.4	NA	
	12/03/96	<50	230 ^{1,2}	<250	<0.5	<0.5	<0.5	<1.0	NA	
	03/28/97	<50	714	<250	<0.5	<0.5	<0.5	<1.0	NA	
	06/13/97	51	<50	<250	<0.5	<0.5	<0.5	<1.0	NA	
	09/18/97	82	<50	<250	0.56	<0.5	<0.5	<1.0	NA	
	12/31/97	<50	<47	<280	1.4	<0.5	<0.5	<1.0	NA	
	04/13/98	<50	<50	<300	<0.5	<0.5	<0.5	<1.0	NA	
	11/06/98	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2	
	03/19/99	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2	
	06/24/99	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2	
MW-4	09/11/95	150	<200	500	23	<0.3	<0.3	<0.4	NA	
	01/08/96	790	90	400	170	1.2	0.6	0.6	NA	
	04/04/96	1,100	180	300	320	1.6	1.1	1.2	NA	
	07/10/96	1,200	120	300	470	1.5	0.8	0.8	NA	
	12/03/96	990	220 ^{1,2}	<250	350	3.3	1.3	1.3	NA	
	03/28/97	440 ²	<50	<250	190	1.2	0.64	<1.0	NA	
	06/13/97	1,300	92 ³	<250	500	5.5	3.4	2.8	NA	
	09/18/97	1,300	150	<250	550	4.9	2.1	2.00	NA	
	12/31/97	73 ^{1,2,3}	<47	<280	110 ¹	1.0 ¹	<0.5	<1.0	NA	
	04/13/98	150 ^{2,3}	<50	<300	520	2.9	<2.5	<5.0	NA	
	11/06/98	<50	<50	<300	250	1.7	<1	<1	<4	
	03/19/99	81	<50	<300	250	<1	1.2	<1	<4	
	06/24/99	190	<50	<300	360	1.4	2.2	1	24	
	MW-5	09/11/95	90	<300	2,500	3.3	<0.3	<0.3	<0.4	NA
		04/04/96	<50	180	520	<0.5	<0.5	<0.5	<1.0	NA
07/10/96		<50	120	1,500	<0.4	<0.3	<0.3	<0.4	NA	
12/03/96		<50	200 ^{1,2}	<250	<0.5	<0.5	<0.5	<1.0	NA	
03/28/97		<50	<50	<250	<0.5	<0.5	<0.5	<1.0	NA	
06/13/97		<50	<50	<250	<0.5	<0.5	<0.5	<1.0	NA	
09/18/97		<50	<50	<250	<0.5	<0.5	<0.5	<1.0	NA	
12/31/97		<50	<47	<280	<0.5	<0.5	<0.5	<1.0	NA	
04/13/98		<50	<47	<280	<0.5	<0.5	<0.5	<1.0	NA	
11/06/98		<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2	
03/19/99		<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2	
06/24/99		<50	<50	<300	<0.5	<0.5	<0.5	<0.5	3.1	
MW-6		11/06/98	120	12,000	1,200	19	0.65	1.8	<0.5	<2
		03/19/99	170	3,800	580	21	0.86	1.5	2.9	<2
		06/24/99	120	1,700 ¹	<300 ¹	18	<0.5	1	<0.5	54
MW-7	09/06/95	<50	<300	800	<0.4	<0.3	<0.3	<0.4	NA	
	01/08/96	<50	410	110	<0.4	<0.3	<0.3	<0.4	NA	
	04/04/96	<50	530	340	<0.5	<0.5	<0.5	<1.0	NA	
	07/10/96	80	840	1,700	<0.4	<0.3	<0.3	<0.4	NA	
	12/03/96	<50	280 ^{1,2}	<250	<0.5	<0.5	<0.5	<1.0	NA	
	03/28/97	65 ⁴	94 ²	<250	<0.5	<0.5	<0.5	<1.0	NA	
	06/13/97	<50	100	<250	<0.5	<0.5	<0.5	<1.0	NA	
	09/18/97	<50	240	<250	<0.5	<0.5	<0.5	<1.0	NA	
	12/31/97	<50	53 ^{2,3}	<280	<0.5	<0.5	<0.5	<1.0	NA	
	04/13/98	<50	<48	<290	<0.5	<0.5	<0.5	<1.0	NA	
	11/06/98	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<2	
	03/19/99	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	5.3	
	06/24/99	73	<50	<300	<0.5	<0.5	<0.5	<0.5	12	

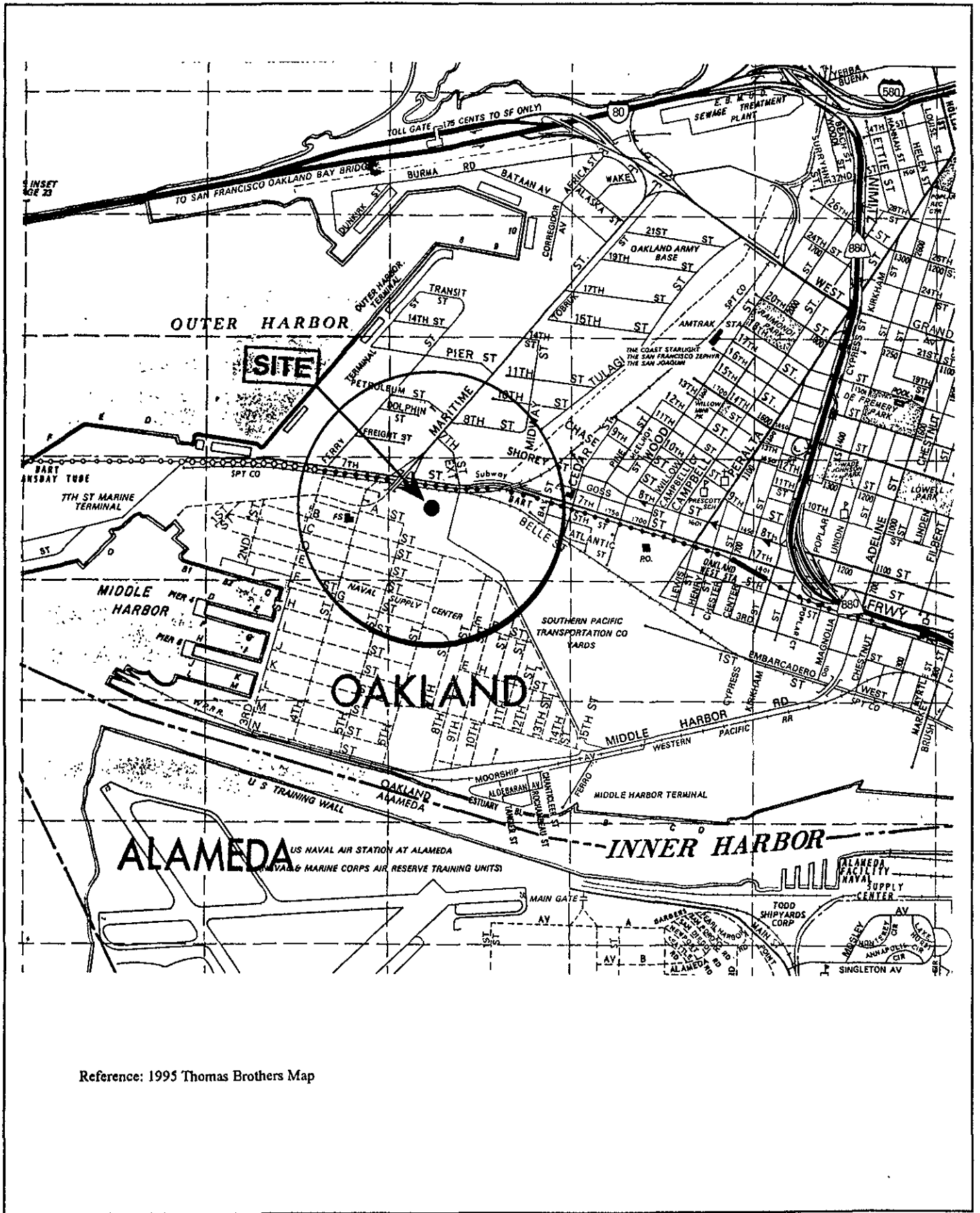
- ¹ Analyte found in the associated blank as well as in the sample
- ² Hydrocarbons present do not match profile of laboratory standard.
- ³ Low-boiling-point/lighter hydrocarbons are present in the sample
- ⁴ Chromatographic pattern matches known laboratory contaminant.
- ⁵ Hydrocarbons are present in the requested fuel quantification ranges, but do not resemble pattern of available fuel standard.
- ⁶ High-boiling-point hydrocarbons are present in sample.
- ⁷ Sample did not pass laboratory QA/QC and may be biased low
- NA Not Analyzed.

• Data from December 1997 through April 1998 taken from *Groundwater Monitoring, Sampling and Product Removal System O&M Report* dated July 21, 1998, by Innovative Technical Solutions, Inc
• Data prior to December 1997 taken from *Groundwater Analytical Results, Quarterly Groundwater Monitoring Report Third Quarter 1997, Building C-401, 2277 7th Street, Oakland, CA*, dated October 24, 1997, by Urbe and Associate

**Table 4. Summary of Operation and Maintenance Activities
 Port of Oakland
 2277 7th Street, Oakland California**

Date	System Status	Comments
04/14/99	System Running	Remove product from MW-1, check active skimmer, performing well
05/11/99	System Running	Remove product from MW-1, check active skimmer, performing well
06/24/99	System Running	Remove product from MW-1 measure product level in both MW-1 and MW-3, active skimmer appears to be removing product at a slow rate, lower skimmers 4 inches

PLATES



Reference: 1995 Thomas Brothers Map



Harding Lawson Associates
 Engineering and
 Environmental Services

Vicinity Map
Quarterly Groundwater Monitoring Report
 2277 Seventh Street
 Oakland, California 94607

PLATE

1

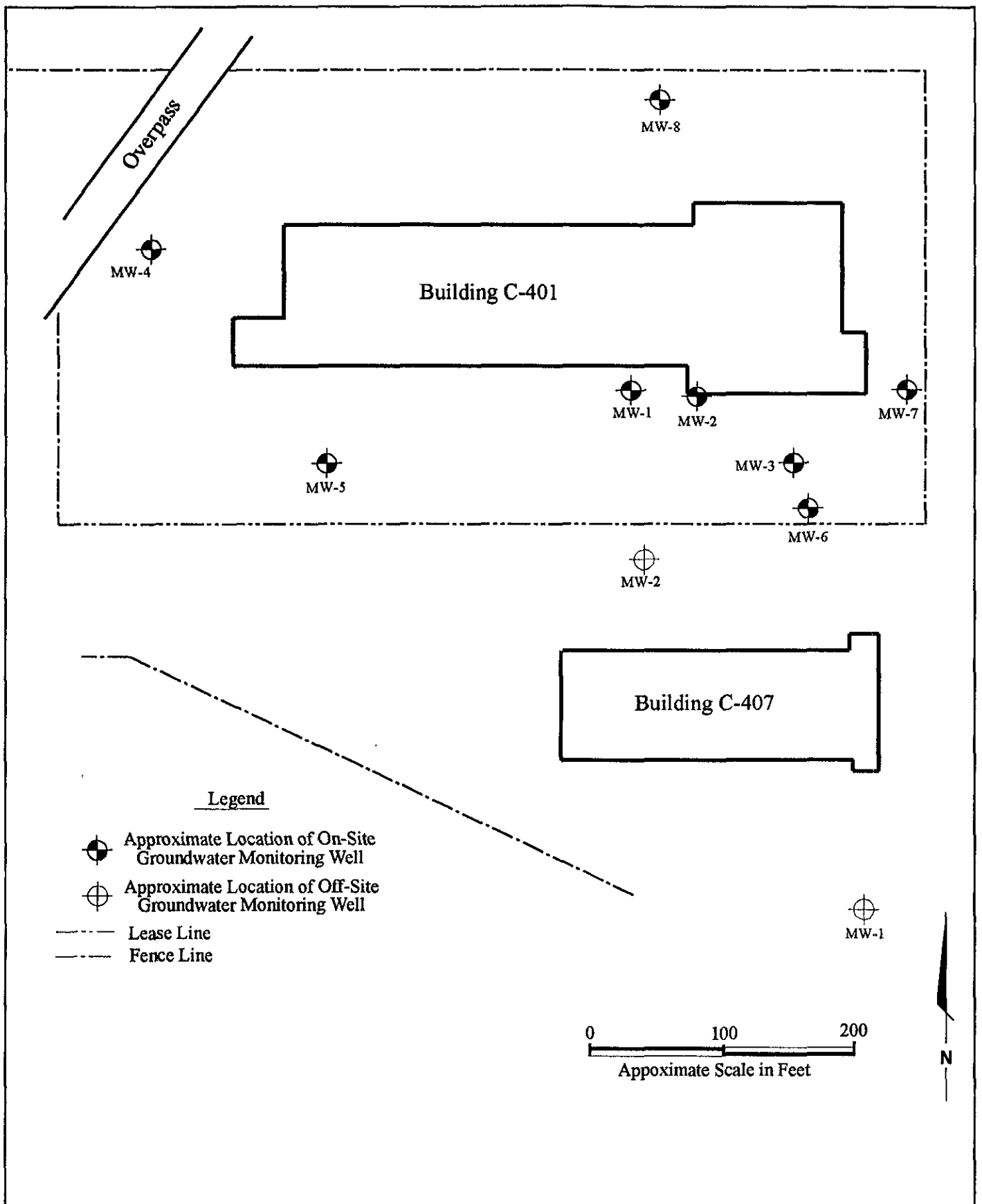
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PROJECT NUMBER
 42633.1

APPROVED

DATE
 07/28/99

REVISED DATE



Harding Lawson Associates
 Engineering and
 Environmental Services

Site Plan
Quarterly Groundwater Monitoring Report
2277 Seventh Street
Oakland, California 94607

PLATE
2

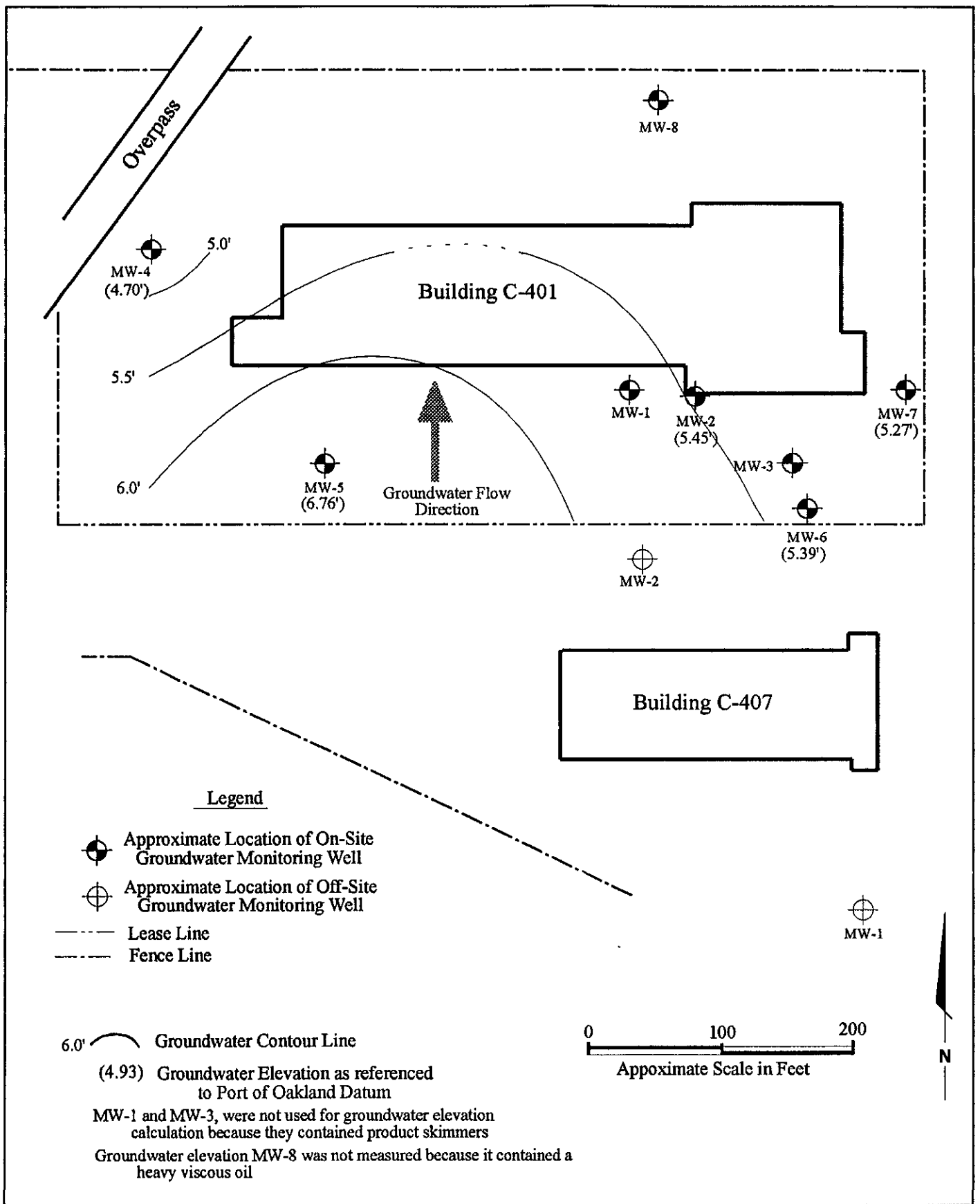
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PROJECT NUMBER
 42633.1

APPROVED

DATE
 07/28/99

REVISED DATE



Harding Lawson Associates
 Engineering and
 Environmental Services

Groundwater Elevation, June 24, 1999
Quarterly Groundwater Monitoring Report
 2277 Seventh Street
 Oakland, California 94607

PLATE

3

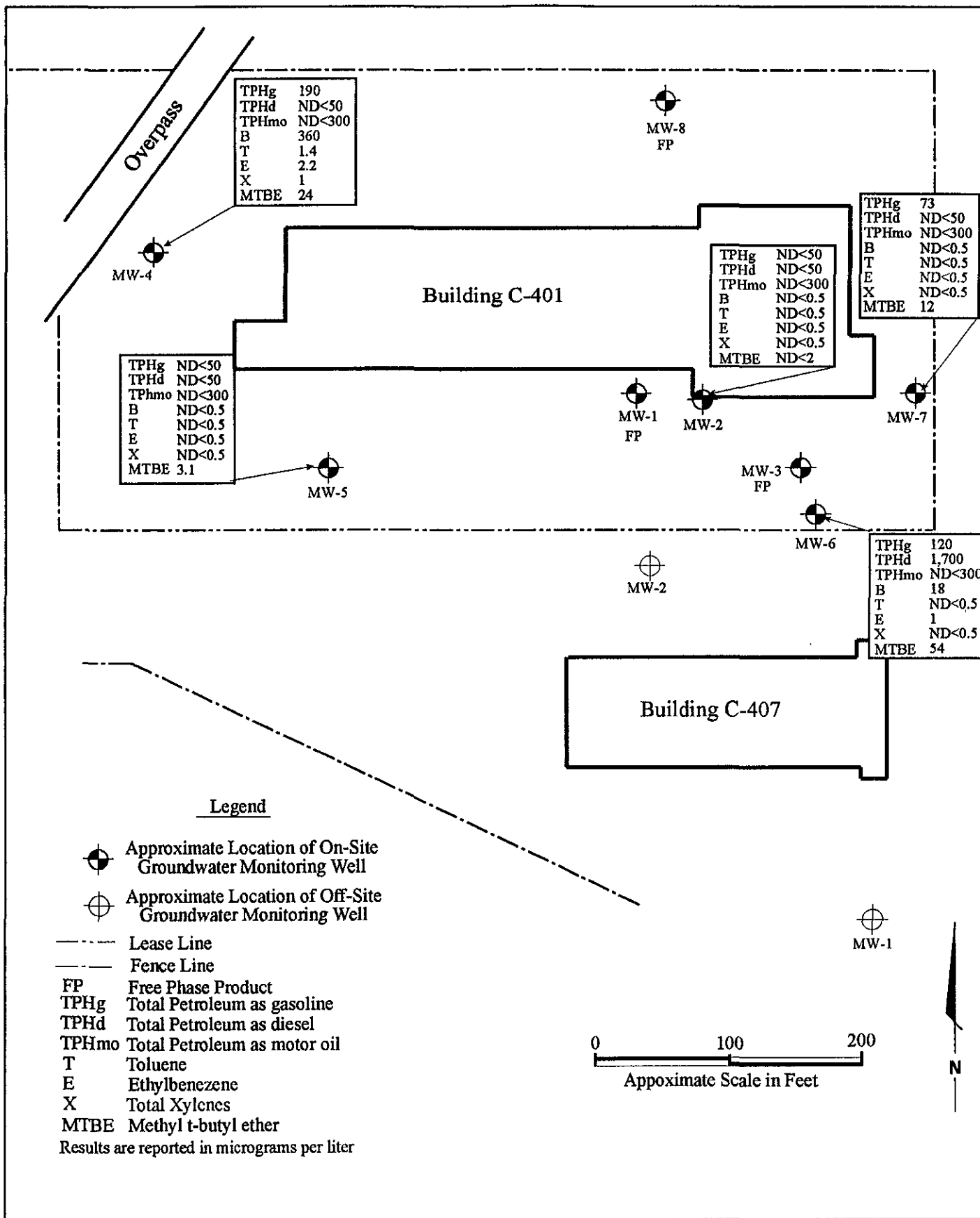
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PROJECT NUMBER
42633.1

APPROVED

DATE
07/28/99

REVISED DATE



Harding Lawson Associates
 Engineering and
 Environmental Services

Groundwater Sample Results, jUNE 24, 1999
Quarterly Groundwater Monitoring Report
 2277 Seventh Street
 Oakland, California 94607

PLATE
4

DRAWN jgm	PROJECT NUMBER 42633.1	APPROVED	DATE 07/28/99	REVISED DATE
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APPENDIX A

GROUNDWATER SAMPLE FORMS



Job Name 2037 7th Street
Job Number 42633-1
Recorded by Heather D Zee
(Signature)

Well No. MW-1
Well Type: Monitor Extraction Other _____
Well Material: PVC St. Steel Other _____
Date 6/24/99 Time 1145
Sampled by HDX FJM
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____
Total Depth of Casing (TD in feet BTOC): _____
Water Level Depth (WL in feet BTOC): _____
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other _____

PURGE METHOD

Bailer - Type: _____
 Submersible Centrifugal Bladder; Pump No.: _____
 Other - Type: _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____
Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC) from _____ to _____

PURGE VOLUME CALCULATION

$$\left(\frac{\text{TD (feet)} - \text{WL (feet)}}{\text{D (inches)}} \right)^2 \times \text{\# Vols} \times 0.0408 = \text{Calculated Purge Volume} \text{ gallons}$$

PURGE TIME

PURGE RATE

ACTUAL PURGE VOLUME

Start _____ Stop _____ Elapsed _____ Initial _____ gpm Final _____ gpm _____ gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____

Observations During Purging (Well Condition, Turbidity, Color, Odor): 0.2 gals product in passive skimmer
Discharge Water Disposal: Sanitary Sewer Storm Sewer Other product. 2 @ 8.00 water at 9.63 -oil waste. inter phase probe

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: _____ Same As Above
 Submersible Centrifugal Bladder; Pump No.: _____ Grab - Type: _____
 Other - Type: _____

SAMPLING DISTRIBUTION

Sample Series: _____

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.



Job Name 2277 7th St.
Job Number 42633-1
Recorded by Heather Lee
(Signature)

Well No. MW-2
Well Type: Monitor Extraction Other _____
Well Material: PVC St. Steel Other _____
Date 6/24/99 Time 1220
Sampled by HDL
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____
Total Depth of Casing (TD in feet BTOC): 15.77
Water Level Depth (WL in feet BTOC): 8.91
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other _____

PURGE METHOD

Bailer - Type: PVC
 Submersible Centrifugal Bladder; Pump No.: _____
 Other - Type: _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____
Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)
from _____ to _____

PURGE VOLUME CALCULATION

$$\left(\frac{15.77 \text{ TD (feet)} - 8.91 \text{ WL (feet)}}{2 \text{ D (inches)}} \right)^2 \times 3 \text{ \# Vols} \times 0.0408 = 3.1 \text{ gallons}$$

Calculated Purge Volume

PURGE TIME

1705 Start 1215 Stop 10 Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm 3.5 gallons

ACTUAL PURGE VOLUME

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input checked="" type="checkbox"/> °F	Other _____
Initial	7.30	2300	70.3	
1.2	7.23	2190	68.5	
2.4	6.75	2190	68.3	
3.5	6.21	2180	68.1	

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____
Meter Nos.	9510			

Observations During Purging (Well Condition, Turbidity, Color, Odor): no odor, clear w/ green tint
Discharge Water Disposal: Sanitary Sewer Storm Sewer Other drum onsite

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: teflon disposable Same As Above
 Submersible Centrifugal Bladder; Pump No.: _____ Grab - Type: _____
 Other - Type: _____

SAMPLING DISTRIBUTION

Sample Series: _____

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
MW-2-44a	1 LA	TPHd, TPHmo	—	Curtis+Tompkins	w/ filtration & silica gel cleanup
	3 VOAs	TPH _g , BTEX, MTBE	HCL		

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Duplicate Sample No.	Type	Sample No.	Type	Sample No.



Job Name 2277 7th Street
Job Number 42633-1
Recorded by Math Aler
(Signature)

Well No. MW-3
Well Type: Monitor Extraction Other _____
Well Material: PVC St. Steel Other _____
Date 6/24/99 Time 11:59
Sampled by HDL/JGM
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____
Total Depth of Casing (TD in feet BTOC): _____
Water Level Depth (WL in feet BTOC): _____
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other _____

PURGE METHOD

Bailer - Type: _____
 Submersible Centrifugal Bladder; Pump No.: _____
 Other - Type: _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____
Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)
from _____ to _____

PURGE VOLUME CALCULATION

$$\left(\frac{\text{TD (feet)} - \text{WL (feet)}}{D \text{ (inches)}} \right)^2 \times \text{\# Vols} \times 0.0408 = \text{Calculated Purge Volume} \text{ gallons}$$

PURGE TIME

PURGE RATE

ACTUAL PURGE VOLUME

Start _____ Stop _____ Elapsed _____ Initial _____ gpm Final _____ gpm _____ gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other _____

Observations During Purging (Well Condition, Turbidity, Color, Odor): oil at 8.38 water at 8.56 w/ oil/water interface probe
Discharge Water Disposal: Sanitary Sewer Storm Sewer Other (active skimmer)

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: _____ Same As Above
 Submersible Centrifugal Bladder; Pump No.: _____ Grab - Type: _____
 Other - Type: _____

SAMPLING DISTRIBUTION

Sample Series: _____

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.



Job Name 2277 7th St.
Job Number 42633-1
Recorded by Heather DeLee
(Signature)

Well No. MW-4
Well Type: Monitor Extraction Other
Well Material: PVC St. Steel Other
Date 6/24/99 Time 12:00
Sampled by HDL
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other
Total Depth of Casing (TD in feet BTOC): 18.84
Water Level Depth (WL in feet BTOC): 8.45
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other

PURGE METHOD

Bailer - Type: PVC
 Submersible Centrifugal Bladder; Pump No.:
 Other - Type:

PUMP INTAKE SETTING

Near Bottom Near Top Other
Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)
from _____ to _____

PURGE VOLUME CALCULATION

$$\left(\frac{18.84}{\text{TD (feet)}} - \frac{8.45}{\text{WL (feet)}} \right) \times \frac{2^2}{\text{D (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0408 = \frac{5.1}{\text{Calculated Purge Volume}} \text{ gallons}$$

PURGE TIME

1234 Start 1242 Stop 8 Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm

ACTUAL PURGE VOLUME

5.5 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T \square °C \square °F	Other _____
Initial	5.83	1660	68.2	
2	5.83	1630	67.6	
4	5.93	1660	68.1	
5.5	6.02	1690	68.6	

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T \square °C \square °F	Other _____
Meter Nos.	<u>9510</u>			

Observations During Purging (Well Condition, Turbidity, Color, Odor): fuel odor, slight sheen, light brown

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other drum on site

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: teflon disposable

Same As Above

Grab - Type: _____

Submersible Centrifugal Bladder; Pump No.:

Other - Type: _____

SAMPLING DISTRIBUTION

Sample Series: _____

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
<u>MW-4-404</u>	<u>1 LLA</u>	<u>TPHd, TPHm</u>	<u>—</u>	<u>Curtis + Tompkins</u>	<u>w/ filtration + silica gel cleanup</u>
	<u>3 VOA</u>	<u>TPH_g, BTEX, MTBE</u>	<u>HCl</u>	<u>↓</u>	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
<u>MW-4</u>	<u>DUP-6/99</u> <u>(1255)</u>

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.



Job Name 2277 7th St.
Job Number 42633-1
Recorded by Heather Lee
(Signature)

Well No. MW-5
Well Type: Monitor Extraction Other
Well Material: PVC St. Steel Other
Date 6/24/99 Time 1040
Sampled by HDL
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other
Total Depth of Casing (TD in feet BTOC): 17.68
Water Level Depth (WL in feet BTOC): 6.73
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other

PURGE METHOD

Bailer - Type: PVC
 Submersible Centrifugal Bladder; Pump No.:
 Other - Type:

PUMP INTAKE SETTING

Near Bottom Near Top Other
Depth in feet (BTOC): from _____ to _____ Screen Interval in Feet (BTOC) from _____ to _____

PURGE VOLUME CALCULATION

$$\left(\frac{17.68 - 6.73}{2} \right) \times 3 \times 0.0408 = 5.4 \text{ gallons}$$

TD (feet) WL (feet) D (Inches) # Vols Calculated Purge Volume

PURGE TIME

1025 Start 1035 Stop 10 Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm

ACTUAL PURGE VOLUME

5.5 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T °C / °F	Other
Initial	6.84	2370	71.6	
1.5	6.90	2160	68.4	
3	6.95	2410	67.8	
5.5	7.15	2460	67.3	

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T °C / °F	Other
Meter Nos.	9510			

Observations During Purging (Well Condition, Turbidity, Color, Odor): turbid brown, no odor, high silt concentration

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other ignite drum

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: teflon disposable
 Submersible Centrifugal Bladder; Pump No.:

Same As Above
 Grab - Type:
 Other - Type:

SAMPLING DISTRIBUTION

Sample Series: _____

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
MW-5- 1	1 LA	TPH _d , TPH _m	-	Curtis + Tompkins	w/ filtration + silica gel cleanup
	3 VOAC	TPH _g , BTEX, MTBE	HCl		

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
TRIP	TRIP-6/99 (1050)

Other Samples

Type	Sample No.



Job Name 2177 7th Street
Job Number 42633-1
Recorded by Heather Lee
(Signature)

Well No. M.W-6
Well Type: Monitor Extraction Other
Well Material: PVC St. Steel Other
Date 6/24/99 Time 1335
Sampled by HDL
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other
Total Depth of Casing (TD in feet BTOC): 18.05
Water Level Depth (WL in feet BTOC): 8.61
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other

PURGE METHOD

Bailor - Type: pvc
 Submersible Centrifugal Bladder; Pump No.:
 Other - Type:

PUMP INTAKE SETTING

Near Bottom Near Top Other
Depth in feet (BTOC): from _____ to _____
Screen Interval in Feet (BTOC) from _____ to _____

PURGE VOLUME CALCULATION

$$\frac{(18.05 - 8.61)}{\text{TD (feet)}} \times \frac{2^2}{\text{D (inches)}} \times 3 \times 0.0408 = 4.6 \text{ gallons}$$

Calculated Purge Volume

PURGE TIME

1312 Start 1320 Stop 8 Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm

ACTUAL PURGE VOLUME

Dry @ 2.7 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T °C / °F	Other
Initial	6.14	4290	65.6	
1.5	6.03	4420	68.3	
2.7	5.98	4480	68.9	
5				

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T °C / °F	Other
Meter Nos.	9510			

Observations During Purging (Well Condition, Turbidity, Color, Odor): fuel odor, green, dark grey
Discharge Water Disposal: Sanitary Sewer Storm Sewer Other onsite drum

WELL SAMPLING

SAMPLING METHOD

Bailor - Type: teflon disposable
 Submersible Centrifugal Bladder; Pump No.:
 Same As Above Grab - Type: Other - Type:

SAMPLING DISTRIBUTION

Sample Series: _____

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
MW-6-4a	2 LA	TPH _d , TPH _{no}	—	Curtis + Tompkins	uv filtration + silica gel cleanup
	3 VOA	TPH _g , BTEX, MTBE	HCl		

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Duplicate Sample No.	Type	Sample No.	Type	Sample No.



Job Name 2277 7th Street
Job Number 42633-1
Recorded by Heather DeLee
(Signature)

Well No. MW-7
Well Type: Monitor Extraction Other
Well Material: PVC St. Steel Other
Date 6/24/99 Time 1125
Sampled by HDL
(Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other
Total Depth of Casing (TD in feet BTOC): 18.16
Water Level Depth (WL in feet BTOC): 9.08
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other

PURGE METHOD

Bailer - Type: pvc
 Submersible Centrifugal Bladder; Pump No.:
 Other - Type:

PUMP INTAKE SETTING

Near Bottom Near Top Other
Depth in feet (BTOC): Screen Interval in Feet (BTOC)
from to

PURGE VOLUME CALCULATION

$$\left(\frac{18.16 - 9.08}{\text{TD (feet)}} \right) \times \frac{7^2}{\text{D (inches)}} \times \frac{3}{\text{\# Vols}} \times 0.0408 = 4.4 \text{ gallons}$$

Calculated Purge Volume

PURGE TIME

PURGE RATE

ACTUAL PURGE VOLUME

1105 Start 1121 Stop 10 Elapsed Initial _____ gpm Final _____ gpm 4.5 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input checked="" type="checkbox"/> °C <input checked="" type="checkbox"/> °F	Other
Initial	7.25	2140	65.7	
1.5	7.27	2160	68.1	
3	7.20	2180	69.3	
4.5	7.20	2170	69.3	

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T <input type="checkbox"/> °C <input type="checkbox"/> °F	Other
Meter Nos.	9510			

Observations During Purging (Well Condition, Turbidity, Color, Odor): no odor, light grey
Discharge Water Disposal: Sanitary Sewer Storm Sewer Other onsite drum

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: teflon disposable Same As Above
 Submersible Centrifugal Bladder; Pump No.: Grab - Type:
 Other - Type:

SAMPLING DISTRIBUTION

Sample Series: _____

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
MW-7	3 VOA	TPH, TPH _{aa} TPH ₁ , BTEX, MTBE	HCl	Curtis + Tompkins	with filtration & silica gel cleanup

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Duplicate Sample No.	Type	Sample No.	Type	Sample No.

APPENDIX B
LABORATORY REPORTS



Laboratory Number 140119

Harding Lawson Associates
530 Water St.
Oakland, CA 94607

Project#: 42633-1
Location: Port of Oakland

Sample ID	Lab ID
TRIP-6/99	140119-001
MW-5	140119-002
MW-7	140119-003
MW-2	140119-004
MW-4	140119-005
DUP-6/99	140119-006
MW-6	140119-007

I certify that this data package has been reviewed for technical correctness and completeness. Please see attached narrative for a discussion of any analytical problems related to this sample set. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

The case narrative is an integral and inseparable part of this report.

Signature: 
Title: Operations Manager

Date: 7.20.99

Signature: 
Title: Project Manager

Date: 20 JULY 99



Laboratory Number: 140119
Client: Harding Lawson Associates
Project Name: Port of Oakland

Receipt Date: 06/24/99

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for six water samples and one trip blank received from the above referenced project. The samples were received cold and intact.

Total Volatile Hydrocarbons: A high surrogate recovery was observed for bromofluorobenzene in sample MW-2 (140119-004). This outlier does not effect the quality of the data as no hydrocarbons were detected in the analysis. No other analytical problems were encountered.

BTXE and MTBE: Low recoveries were observed for MTBE in the MS/MSD analysis in batch 49025 and for benzene in the MS/MSD analysis in batch 48938. These outliers do not effect the quality of the data as the spike concentrations were insignificant compared to the analyte levels in the associated samples.

Total Extractable Hydrocarbons: The extraction of sample MW-6 (140119-007) was originally begun in batch 48960 with the other samples from this project, but the extract was lost due to broken glassware. The sample was re-extracted in batch 48991, however the hexacosane surrogate recovery for this sample and the batch QC is below acceptance criteria. Because the diesel spike recoveries are acceptable despite the low surrogate recovery, we believe that the reported concentration for sample MW-6 is accurate, but there is the possibility that this result is biased low.

TVH-Total Volatile Hydrocarbons

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8015M
 Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140119-002	MW-5	48938	06/24/99	06/25/99	06/25/99	
140119-003	MW-7	48938	06/24/99	06/25/99	06/25/99	
140119-004	MW-2	48990	06/24/99	06/29/99	06/29/99	
140119-005	MW-4	48938	06/24/99	06/25/99	06/25/99	

Matrix: Water

Analyte	Units	140119-002	140119-003	140119-004	140119-005
Diln Fac:		1	1	1	1
Gasoline C7-C12	ug/L	<50	73	<50	190
Surrogate					
Trifluorotoluene	%REC	107	113	127	107
Bromofluorobenzene	%REC	110	111	158 *	113

* Values outside of QC limits



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

Laboratory Number 140119

Harding Lawson Associates
530 Water St.
Oakland, CA 94607

Project#: 42633-1
Location: Port of Oakland


Sample ID	Lab ID
TRIP-6/99	140119-001
MW-5	140119-002
MW-7	140119-003
MW-2	140119-004
MW-4	140119-005
DUP-6/99	140119-006
MW-6	140119-007

I certify that this data package has been reviewed for technical correctness and completeness. Please see attached narrative for a discussion of any analytical problems related to this sample set. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

The case narrative is an integral and inseparable part of this report.

Signature: 
Title: Operations Manager

Date: 7.20.99

Signature: 
Title: Project Manager

Date: 20 JULY 99



Laboratory Number: 140119
Client: **Harding Lawson Associates**
Project Name: **Port of Oakland**

Receipt Date: **06/24/99**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for six water samples and one trip blank received from the above referenced project. The samples were received cold and intact.

Total Volatile Hydrocarbons: A high surrogate recovery was observed for bromofluorobenzene in sample MW-2 (140119-004). This outlier does not effect the quality of the data as no hydrocarbons were detected in the analysis. No other analytical problems were encountered.

BTXE and MTBE: Low recoveries were observed for MTBE in the MS/MSD analysis in batch 49025 and for benzene in the MS/MSD analysis in batch 48938. These outliers do not effect the quality of the data as the spike concentrations were insignificant compared to the analyte levels in the associated samples.

Total Extractable Hydrocarbons: The extraction of sample MW-6 (140119-007) was originally begun in batch 48960 with the other samples from this project, but the extract was lost due to broken glassware. The sample was re-extracted in batch 48991, however the hexacosane surrogate recovery for this sample and the batch QC is below acceptance criteria. Because the diesel spike recoveries are acceptable despite the low surrogate recovery, we believe that the reported concentration for sample MW-6 is accurate, but there is the possibility that this result is biased low.



TVH-Total Volatile Hydrocarbons

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8015M
 Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140119-006	DUP-6/99	48938	06/24/99	06/25/99	06/25/99	
140119-007	MW-6	48938	06/24/99	06/25/99	06/25/99	

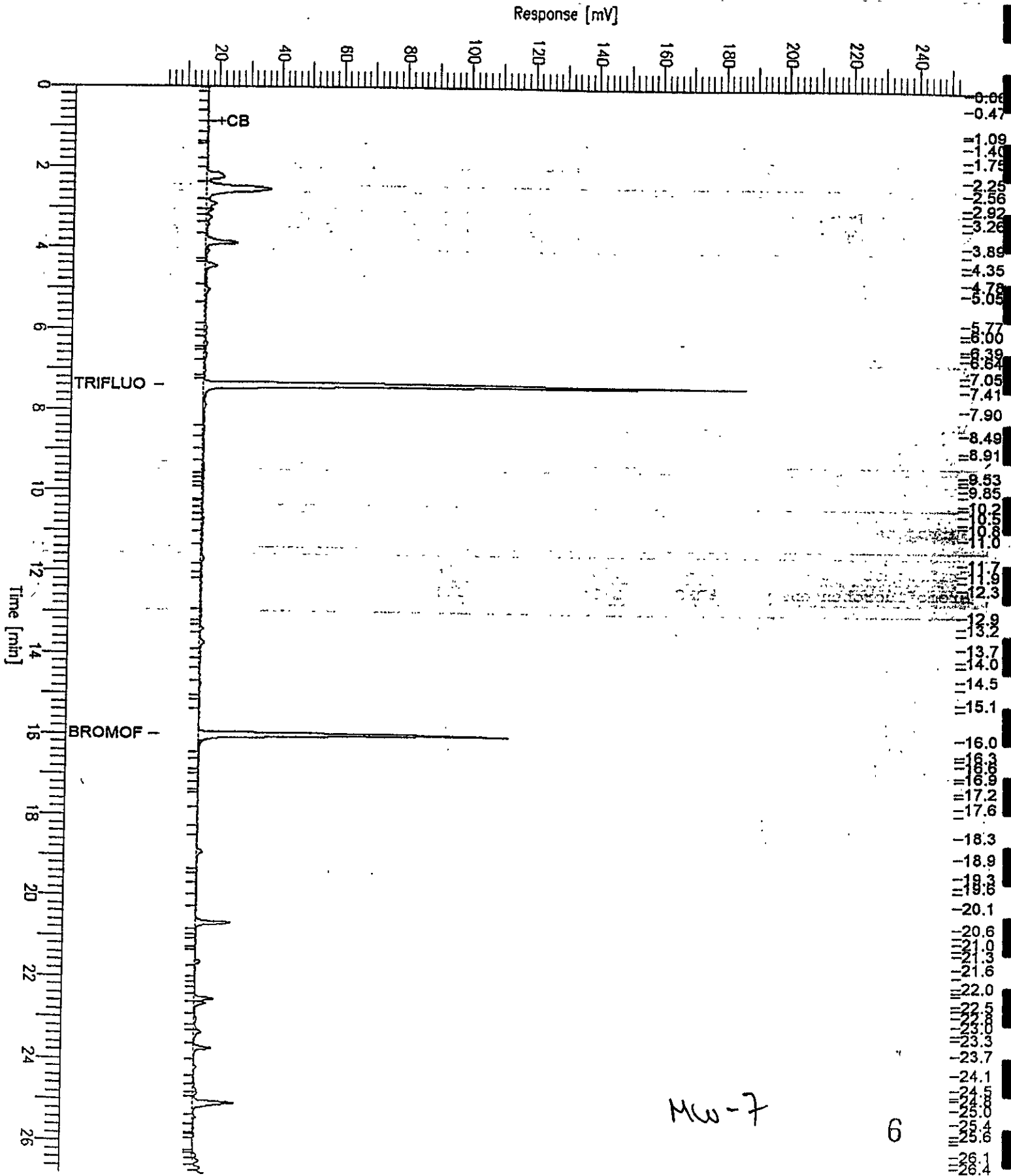
Matrix: Water

Analyte	Units	140119-006	140119-007
Diln Fac:		1	1
Gasoline C7-C12	ug/L	160	120
Surrogate			
Trifluorotoluene	%REC	105	106
Bromofluorobenzene	%REC	113	111

Sample Name : 140119-003,48938
 FileName : G:\GC19\DATA\176X006.raw
 Method : TVHBTXE
 Start Time : 0.00 min
 Scale Factor : -1.0

End Time : 26.80 min
 Plot Offset: 4 mV

Sample #: _____ Page 1 of 1
 Date : 6/25/99 05:17 PM
 Time of Injection: 6/25/99 04:49 PM
 Low Point : 3.54 mV
 Plot Scale: 250.0 mV
 High Point : 253.54 mV



MW-7

GC19 TVH 'X' Data File (FID)

Sample Name : 140119-005,48938

Sample #:

Page 1 of 1

FileName : G:\GC19\DATA\176X008.raw

Date : 6/25/99 06:35 PM

Method : TVHBTXE

Time of Injection: 6/25/99 06:08 PM

Start Time : 0.00 min

End Time : 26.80 min

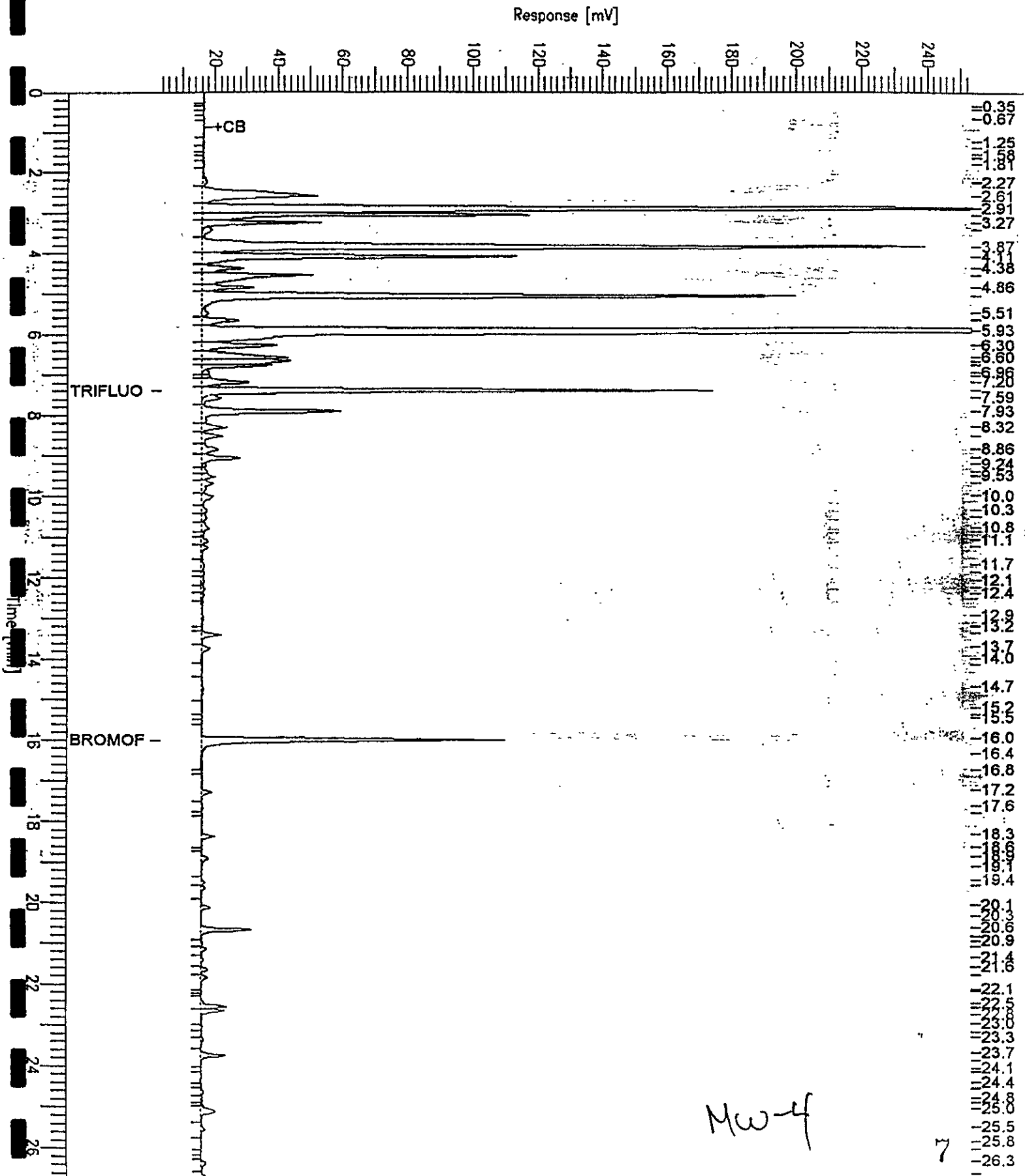
Low Point : 3.60 mV

High Point : 253.60 mV

Scale Factor: -1.0

Plot Offset: 4 mV

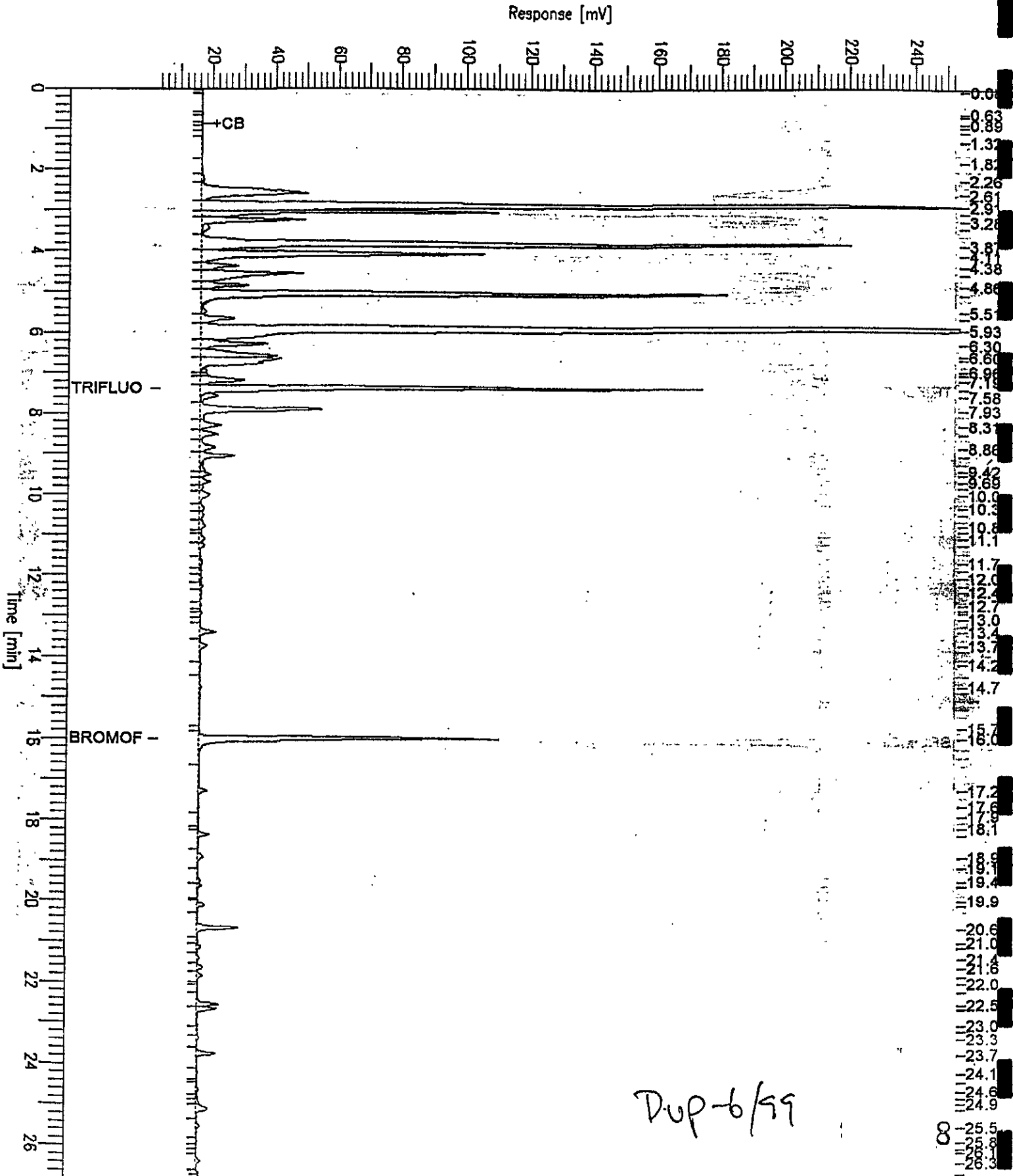
Plot Scale: 250.0 mV



MW-4

Sample Name : MSS,140119-006,48938
FileName : G:\GC19\DATA\176X011.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: -1.0

Sample #:
Date : 6/25/99 08:35 PM
Time of Injection: 6/25/99 08:07 PM
Low Point : 3.82 mV
Plot Scale: 250.0 mV
Page 1 of 1
High Point : 253.82 mV
End Time : 26.80 min
Plot Offset: 4 mV



Dup-6/99

GC19 TVH 'X' Data File (FID)

Sample Name : 140119-007,48938

Sample #:

FileName : G:\GC19\DATA\176X009.raw

Date : 6/25/99 07:16 PM

Method : TVHBTXE

Time of Injection: 6/25/99 06:48 PM

Start Time : 0.00 min

End Time : 26.80 min

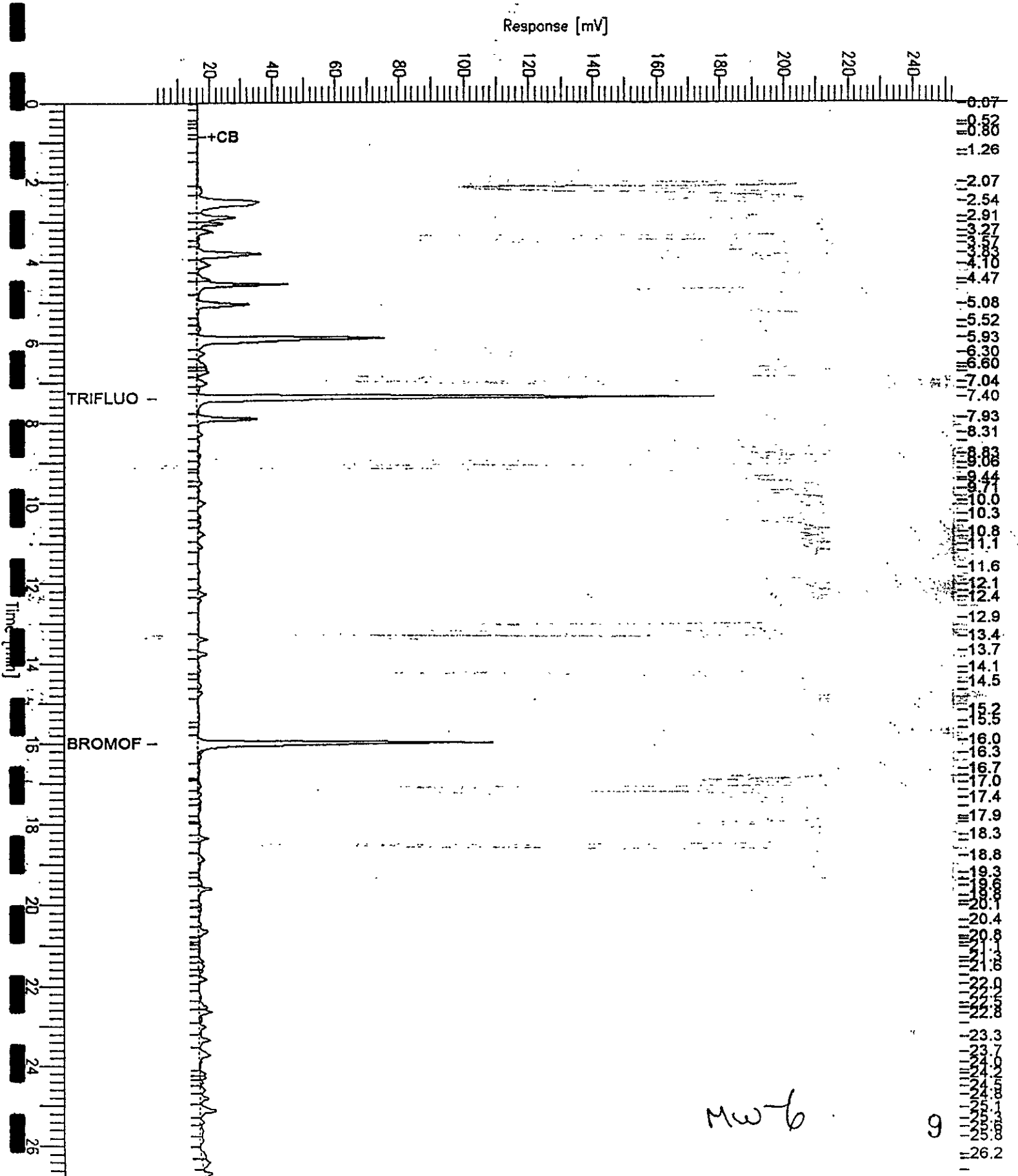
Low Point : 3.62 mV

High Point : 253.62 mV

Scale Factor: -1.0

Plot Offset: 4 mV

Plot Scale: 250.0 mV

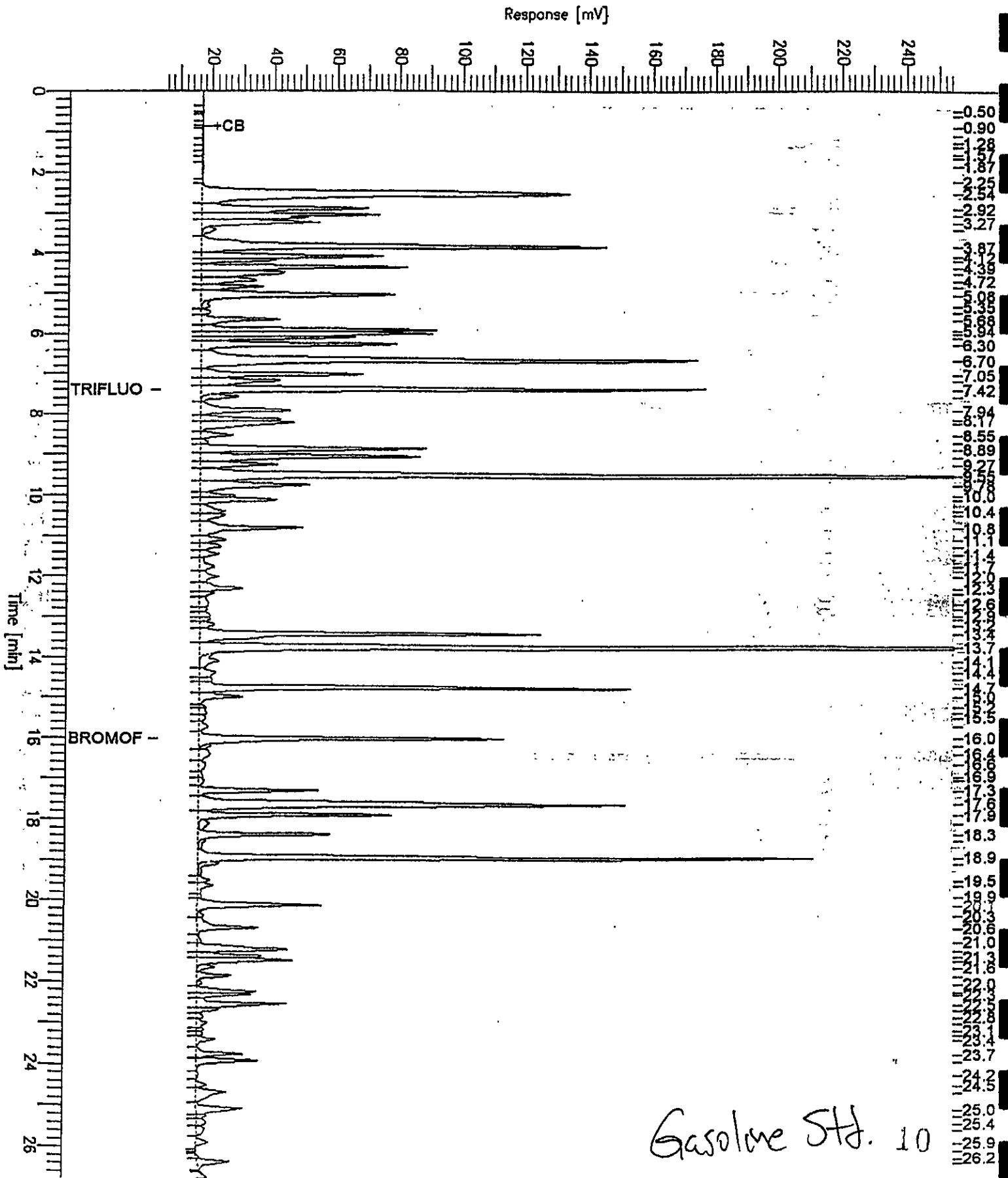


mw6

Sample Name : CCV/LCS, QC01136, 99WS7570, 48938
File Name : G:\GC19\DATA\176X001.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : -1.0

End Time : 26.80 min
Plot Offset : 4 mV

Sample #: GAS
Date : 6/25/99 01:25 PM
Time of Injection: 6/25/99 12:58 PM
Low Point : 4.09 mV
Plot Scale : 250.0 mV
High Point : 254.09 mV



Gasoline Std. 10

BTXE

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8021R
 Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140119-001	TRIP-6/99	48938	06/24/99	06/25/99	06/25/99	
140119-002	MW-5	48938	06/24/99	06/25/99	06/25/99	
140119-003	MW-7	48938	06/24/99	06/25/99	06/25/99	
140119-004	MW-2	48938	06/24/99	06/25/99	06/25/99	

Matrix: Water

Analyte	Units	140119-001	140119-002	140119-003	140119-004
Diln Fac:		1	1	1	1
MTBE	ug/L	<2	3.1	12	<2
Benzene	ug/L	<0.5	<0.5	<0.5	<0.5
Toluene	ug/L	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	ug/L	<0.5	<0.5	<0.5	<0.5
m,p-Xylenes	ug/L	<0.5	<0.5	<0.5	<0.5
o-Xylene	ug/L	<0.5	<0.5	<0.5	<0.5
Surrogate					
Trifluorotoluene	%REC	90	100	107	104
Bromofluorobenzene	%REC	93	104	109	106

BTXE

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8021B
 Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140119-005	MW-4	49025	06/24/99	06/30/99	06/30/99	
140119-006	DUP-6/99	49025	06/24/99	06/30/99	06/30/99	
140119-007	MW-6	48938	06/24/99	06/25/99	06/25/99	

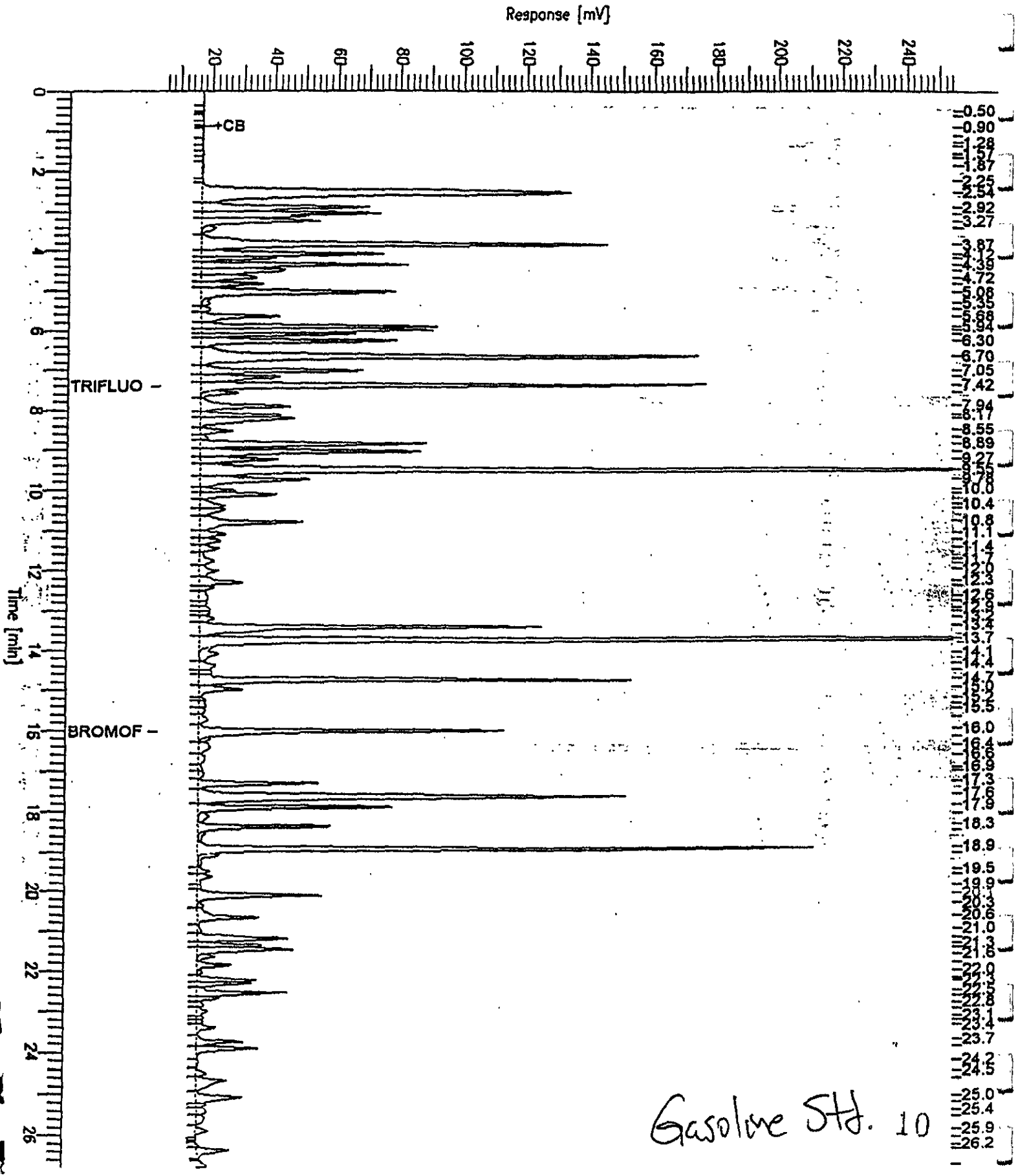
Matrix: Water

Analyte	Units	140119-005	140119-006	140119-007
Diln Fac:		2	2	1
MTBE	ug/L	24	26	54
Benzene	ug/L	360	230	18
Toluene	ug/L	1.4	1	<0.5
Ethylbenzene	ug/L	2.2	1.4	1
m,p-Xylenes	ug/L	1	<1	<0.5
o-Xylene	ug/L	<1	<1	<0.5
Surrogate				
Trifluorotoluene	%REC	112	120	101
Bromofluorobenzene	%REC	115	125	106

Sample Name : CCV/LCS, QC01136, 99WS7570, 48938
FileName : G:\GC19\DATA\176X001.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 26.80 min
Plot Offset: 4 mV

Sample #: GAS
Date : 6/25/99 01:25 PM
Time of Injection: 6/25/99 12:58 PM
Low Point : 4.09 mV
Plot Scale: 250.0 mV
High Point : 254.09 mV



Gasoline Std. 10

BTXE

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8021B
 Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
 Batch#: 49025
 Units: ug/L
 Diln Fac: 1

Prep Date: 06/30/99
 Analysis Date: 06/30/99

MB Lab ID: QC01506

Analyte	Result	
MTBE	<2.0	
Benzene	<0.5	
Toluene	<0.5	
Ethylbenzene	<0.5	
m,p-Xylenes	<0.5	
o-Xylene	<0.5	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	117	51-143
Bromofluorobenzene	118	37-146

BTXE	
Client: Harding Lawson Associates	Analysis Method: EPA 8021B
Project#: 42633-1	Prep Method: EPA 5030
Location: Port of Oakland	
LABORATORY CONTROL SAMPLE	
Matrix: Water	Prep Date: 06/30/99
Batch#: 49025	Analysis Date: 06/30/99
Units: ug/L	
Diln Fac: 1	

LCS Lab ID: QC01505

Analyte	Result	Spike Added	%Rec #	Limits
MTBE	18.66	20	93	66-126
Benzene	20.29	20	101	65-111
Toluene	20.62	20	103	76-117
Ethylbenzene	20.27	20	101	71-121
m,p-Xylenes	41.46	40	104	80-123
o-Xylene	20.88	20	104	75-127
Surrogate	%Rec	Limits		
Trifluorotoluene	120	51-143		
Bromofluorobenzene	122	37-146		

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

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits



BTXE

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8021B
 Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ Sample Date: 06/28/99
 Lab ID: 140197-009 Received Date: 06/29/99
 Matrix: Water Prep Date: 06/30/99
 Batch#: 49025 Analysis Date: 06/30/99
 Units: ug/L
 Diln Fac: 1

MS Lab ID: QC01507

Analyte	Spike Added	Sample	MS	%Rec #	Limits
MTBE	20	100.2	98.43	-9 *	49-136
Benzene	20	10.72	31.29	103	55-122
Toluene	20	8.1	28.09	100	63-139
Ethylbenzene	20	9.74	30.28	103	61-137
m,p-Xylenes	40	8.62	51.12	106	57-148
o-Xylene	20	4.7	27.08	112	70-141
Surrogate	%Rec	Limits			
Trifluorotoluene	129	51-143			
Bromofluorobenzene	167*	37-146			

MSD Lab ID: QC01508

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
MTBE	20	101.4	6 *	49-136	3	11
Benzene	20	32.34	108	55-122	3	10
Toluene	20	29.4	107	63-139	5	10
Ethylbenzene	20	31.74	110	61-137	5	10
m,p-Xylenes	40	53.54	112	57-148	5	10
o-Xylene	20	28.6	120	70-141	5	10
Surrogate	%Rec	Limits				
Trifluorotoluene	127	51-143				
Bromofluorobenzene	166*	37-146				

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 2 out of 12 outside limits



TVH-Total Volatile Hydrocarbons

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8015M
 Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
 Batch#: 48938
 Units: ug/L
 Diln Fac: 1

Prep Date: 06/25/99
 Analysis Date: 06/25/99

MB Lab ID: QC01138

Analyte	Result	
Gasoline C7-C12	<50	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	93	53-150
Bromofluorobenzene	96	53-149



BTXE

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8021B
 Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
 Batch#: 48938
 Units: ug/L
 Diln Fac: 1

Prep Date: 06/25/99
 Analysis Date: 06/25/99

MB Lab ID: QC01138

Analyte	Result	
MTBE	<2.0	
Benzene	<0.5	
Toluene	<0.5	
Ethylbenzene	<0.5	
m,p-Xylenes	<0.5	
o-Xylene	<0.5	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	89	51-143
Bromofluorobenzene	92	37-146



TVH-Total Volatile Hydrocarbons

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8015M
 Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water
 Batch#: 48938
 Units: ug/L
 Diln Fac: 1

Prep Date: 06/25/99
 Analysis Date: 06/25/99

LCS Lab ID: QC01136

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	1829	2000	91	77-117
Surrogate	%Rec	Limits		
Trifluorotoluene	109	53-150		
Bromofluorobenzene	123	53-149		

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

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits



BTXE

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8021B
 Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water
 Batch#: 48938
 Units: ug/L
 Diln Fac: 1

Prep Date: 06/25/99
 Analysis Date: 06/25/99

LCS Lab ID: QC01137

Analyte	Result	Spike Added	%Rec #	Limits
MTBE	15.34	20	77	66-126
Benzene	17.29	20	86	65-111
Toluene	17.07	20	85	76-117
Ethylbenzene	17.03	20	85	71-121
m,p-Xylenes	34.68	40	87	80-123
o-Xylene	17.37	20	87	75-127
Surrogate	%Rec	Limits		
Trifluorotoluene	93	51-143		
Bromofluorobenzene	96	37-146		

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

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits



BTXE

Client: Harding Lawson Associates
Project#: 42633-1
Location: Port of Oakland

Analysis Method: EPA 8021B
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: DUP-6/99
Lab ID: 140119-006
Matrix: Water
Batch#: 48938
Units: ug/L
Diln Fac: 1

Sample Date: 06/24/99
Received Date: 06/24/99
Prep Date: 06/25/99
Analysis Date: 06/25/99

MS Lab ID: QC01139

Analyte	Spike Added	Sample	MS	%Rec #	Limits
MTBE	20	29.6	41.64	60	49-136
Benzene	20	281.9	260.9	-105 *	55-122
Toluene	20	1	19.9	95	63-139
Ethylbenzene	20	1.6	20.3	94	61-137
m,p-Xylenes	40	0.68	38.65	95	57-148
o-Xylene	20	<0.5	19.59	98	70-141
Surrogate				%Rec	Limits
Trifluorotoluene				100	51-143
Bromofluorobenzene				105	37-146

MSD Lab ID: QC01140

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
MTBE	20	42.07	62	49-136	1	11
Benzene	20	253.5	-142 *	55-122	3	10
Toluene	20	20.84	99	63-139	5	10
Ethylbenzene	20	21.17	98	61-137	4	10
m,p-Xylenes	40	40.65	100	57-148	5	10
o-Xylene	20	20.6	103	70-141	5	10
Surrogate				%Rec	Limits	
Trifluorotoluene				97	51-143	
Bromofluorobenzene				101	37-146	

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 2 out of 12 outside limits

TVH-Total Volatile Hydrocarbons

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8015M
 Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
 Batch#: 48990
 Units: ug/L
 Diln Fac: 1

Prep Date: 06/28/99
 Analysis Date: 06/28/99

MB Lab ID: QC01361

Analyte	Result	
Gasoline C7-C12	<50	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	104	53-150
Bromofluorobenzene	149	53-149



TVH-Total Volatile Hydrocarbons

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8015M
 Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water
 Batch#: 48990
 Units: ug/L
 Diln Fac: 1

Prep Date: 06/28/99
 Analysis Date: 06/28/99

LCS Lab ID: QC01362

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	1745	2000	87	77-117
Surrogate	%Rec	Limits		
Trifluorotoluene	82	53-150		
Bromofluorobenzene	105	53-149		

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

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

TVH-Total Volatile Hydrocarbons

Client: Harding Lawson Associates	Analysis Method: EPA 8015M
Project#: 42633-1	Prep Method: EPA 5030
Location: Port of Oakland	

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: MW-2	Sample Date: 06/24/99
Lab ID: 140119-004	Received Date: 06/24/99
Matrix: Water	Prep Date: 06/29/99
Batch#: 48990	Analysis Date: 06/29/99
Units: ug/L	
Diln Fac: 1	

MS Lab ID: QC01367

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	2000	<50	2173	109	69-131
Surrogate	%Rec	Limits			
Trifluorotoluene	136	53-150			
Bromofluorobenzene	119	53-149			

MSD Lab ID: QC01368

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	2000	2297	115	69-131	6	13
Surrogate	%Rec	Limits				
Trifluorotoluene	138	53-150				
Bromofluorobenzene	120	53-149				

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

Turbochrom Method File : G:\GC19\METHODS\X_060199.MTH
Created by : AMP on : 6/1/99 03:29 PM
Edited by : TEW on : 6/1/99 03:32 PM
Description : TVH "X" CHANNEL FOR THE FID
TVH & JP-4 ICAL 6-1-99 FROM MAY29.SEQ
TFT/BFB ICAL 6-1-99 FROM JUN01.SEQ

Number of Times Edited : 1
Number of Times Calibrated : 18

Instrument Conditions :

Capillary GC :GC19 TVHBTXE
Instrument :HP-5890
Column :DB-624
Column Length :30m
Carrier Gas :He
Flow Rate :5 mls/min
Split Ratio :NA
Temperature :40 - 225
Injection Temp.:200
Detector 1 :FID
Detector 2 :PID
Notes :FOR TVH/BTXE ANALYSES

Instrument Control Method:

Instrument name : GC19_TVHBTXE

Interface Parameters :

Delay Time : 0.00 min.
Run Time : 26.80 min.
Sampling Rate : 1.0000 pts/s
Interface Type : 900
Analog Voltage Input : 10000 mV
Data will be collected from channel A

Timed Events:

There are no timed events in the method

Real Time Plot Parameters :

Channel A -- Pages: 1 Offset: 0.000 mV Scale: 250.000 mV
Channel B -- Pages: 1 Offset: 0.000 mV Scale: 1000.000 mV

Processing Parameters :

Bunch Factor : 1 points
Noise Threshold : 30 μ V
Area Threshold : 150.00 μ V

Peak Separation Criteria

Width Ratio : 0.200
Valley-to-Peak Ratio : 0.010

Exponential Skim Criteria

Peak Height Ratio : 5.000

Adjusted Height Ratio : 4.000
Valley Height Ratio : 3.000

Baseline Timed Events :

Event #1 - +CB at 0.500

Annotated Replot Parameters :

Offset will be autozeroed
Plot Scale : 250.000 mV

Number of Pages : 1
Plot Title : GC19 TVH 'X' Data File (FID)
X-Axis Label : Time [min]
Y-Axis Label : Response [mV]
Orientation : Landscape
Retention Labels : Peak Crests
Component Labels : Actual Time
Automatically set plot start and end times to data limits

Report Format files :

Report Format file #1 : G:\GC19\TVHBTXE\SURR.RPT

User Programs :

No user programs will be executed

Global Information :

Default Sample Volume : 1.000 ul
Quantitation Units : ngs
Void Time : 0.000 min
Correct amounts during calibration : NO
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06

Component Information :

GAS:6-10 SURROGATES
Component Type : Named Group
Group Members:
TRIFLUOROTOLUENE
BROMOFLUOROBENZENE

Quantitation will use calibration reference : GAS:6-10

GAS:7-12 SURROGATES

Component Type : Named Group
Group Members:
TRIFLUOROTOLUENE
BROMOFLUOROBENZENE

Quantitation will use calibration reference : GAS:7-12

JP4:7-12 SURROGATES

Component Type : Named Group
Group Members:
TRIFLUOROTOLUENE

Quantitation will use calibration reference : JP4:7-12

TRIFLUOROTOLUENE

Component Type : Single Peak Component
Retention Time : 7.412 min Search Window: 16.09 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
User Values:

Label :
Value 1: 0.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
TFT/BFB 1	150.0000	269876.04	52805.58	-----	-----	1
TFT/BFB 2	225.0000	367442.98	73878.26	-----	-----	1
TFT/BFB 3	450.0000	730571.80	151298.61	-----	-----	1
TFT/BFB 4	675.0000	1054221.72	218910.38	-----	-----	1
TFT/BFB 5	950.0000	1427581.97	297937.74	-----	-----	1

Average Calibration Factor = 1624.054849 (%RSD = 6.84)

GAS:6-10

Component Type : Timed Group
Start Time : 4.392 min End Time : 19.158 min
Reference Component:
Quantitation will be done using response factor = 1785.892300

BROMOFLUOROBENZENE

Component Type : Single Peak Component
Retention Time : 16.017 min Search Window: 21.74 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
User Values:

Label :
Value 1: 0.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
TFT/BFB 1	150.0000	165416.90	29804.63	-----	-----	1
TFT/BFB 2	225.0000	215295.62	39978.31	-----	-----	1
TFT/BFB 3	450.0000	425626.49	81165.73	-----	-----	1
TFT/BFB 4	675.0000	612548.80	121836.76	-----	-----	1
TFT/BFB 5	950.0000	841806.86	165248.91	-----	-----	1

Average Calibration Factor = 959.815514 (%RSD = 8.84)

GAS:7-12

Component Type : Timed Group
Start Time : 7.075 min End Time : 26.687 min

Quantitation will be done using response factor = 1503.288400

JP4:7-12

Component Type : Timed Group
Start Time : 7.075 min End Time : 26.687 min
Reference Component:
Quantitation will be done using response factor = 1970.668400

Calibration Replicate Lists:

Component: GAS:6-10 SURROGATES

This component has no calibration levels

Component: GAS:7-12 SURROGATES

This component has no calibration levels

Component: JP4:7-12 SURROGATES

This component has no calibration levels

Component: TRIFLUOROTOLUENE

Level : TFT/BFB 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
269876.04	52805.58	150.0000	-----	-----	6/1/99 03:28 PM	152X002.

Level : TFT/BFB 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
367442.98	73878.26	225.0000	-----	-----	6/1/99 03:28 PM	152X003.

Level : TFT/BFB 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
730571.80	151298.61	450.0000	-----	-----	6/1/99 03:28 PM	152X004.

Level : TFT/BFB 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1054221.72	218910.38	675.0000	-----	-----	6/1/99 03:28 PM	152X005.

Level : TFT/BFB 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1427581.97	297937.74	950.0000	-----	-----	6/1/99 03:28 PM	152X006.

Component: GAS:6-10

This component has no calibration levels

Component: BROMOFLUOROBENZENE

Level : TFT/BFB 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
165416.90	29804.63	150.0000	-----	-----	6/1/99 03:28 PM	152X002.

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
215295.62	39978.31	225.0000	-----	-----	6/1/99 03:28 PM	152X003.

Level : TFT/BFB 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
425626.49	81165.73	450.0000	-----	-----	6/1/99 03:28 PM	152X004.

Level : TFT/BFB 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
612548.80	121836.76	675.0000	-----	-----	6/1/99 03:28 PM	152X005.

Level : TFT/BFB 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
841806.86	165248.91	950.0000	-----	-----	6/1/99 03:28 PM	152X006.

Component: GAS:7-12

This component has no calibration levels

Component: JP4:7-12

This component has no calibration levels

GC 19 GAS CAL 06-01-99 from MAY29.SEQ

File	Sample	gas:6-10	gas:6-10 SURROGATES	ADJUSTED AREA	CAL FACTOR	
Name	Name	ng	Area	Area	[μ V-s / NG]	
			[μ V-s]	[μ V-s]		
149X004P	GAS 1	250	1649390	1143430	505960	2023.84
149X005P	GAS 2	2500	5713210	1250240	4462970	1785.19
149X006P	GAS 3	10000	21090500	1404110	19686390	1968.64
149X007P	GAS 4	25000	42089410	1557320	40532090	1621.28
149X008P	GAS 5	50000	78452290	1926750	76525540	1530.51

Avg. Calibration Factor 1785.8923

%RSD 12.0

QC STATUS > PASS
(LIMITS: RSD < 20.5 %)

GC 19 GAS CAL 06-01-99 from MAY29.SEQ

File	Sample	gas:7-12	gas:7-12 SURROGATES	ADJUSTED AREA	CAL FACTOR	
Name	Name	ng	Area	Area	[$\mu\text{V}\cdot\text{s} / \text{NG}$]	
			[$\mu\text{V}\cdot\text{s}$]	[$\mu\text{V}\cdot\text{s}$]		
149X004P	GAS 1	250	1565450	1143430	422020	1688.08
149X005P	GAS 2	2500	5049470	1250240	3799230	1519.69
149X006P	GAS 3	10000	18168240	1404110	16764130	1676.41
149X007P	GAS 4	25000	35606980	1557320	34049660	1361.99
149X008P	GAS 5	50000	65440290	1926750	63513540	1270.27

Avg. Calibration Factor 1503.2884

%RSD 12.4

QC STATUS > PASS
(LIMITS: RSD < 20.5 %)

GC 19 JP-4 CAL 06-01-99 from MAY29.SEQ

File Name	Sample Name	ng	JP-4: 7-12 Area [μV·s]	JP-4: 7-12 SURROGATES Area [μV·s]	ADJUSTED AREA Area [μV·s]	CAL FACTOR [μV·s / NG]
149X012P	JP-4 1	250	1619020	1159290	459730	1838.92
149X013	JP-4 2	2500	6048039	1240594	4807445	1922.98
149X014	JP-4 3	10000	21514432	1498062	20016370	2001.64
149X015	JP-4 4	25000	53162397	1483935	51678462	2067.14
149X016	JP-4 5	50000	104220016	3086597	101133419	2022.87

Avg. Calibration Factor 1970.6684

%RSD 4.6

QC STATUS > PASS
(LIMITS: RSD < 20.5 %)

Turbochrom Method File : G:\GC19\METHODS\Y_060199.MTH
Created by : AMP on : 6/1/99 03:16 PM
Edited by : TEW on : 6/2/99 12:17 PM
Description : GC19 BTXE CHANNEL B PID 'Y' DATA FILE
MBTXE ICAL 6-1-99 FROM MAY29.SEQ
TFT & BFB ICAL 6-1-99 FROM JUN01.SEQ

Number of Times Edited : 2
Number of Times Calibrated : 32

Instrument Conditions :

Capillary GC -GC19_TVHBTXE
Instrument :HP-5890
Column :DB-5
Column Length :30m
Carrier Gas :He
Flow Rate :5 mls/min
Split Ratio :NA
Temperature :40 - 225
Injection Temp.:200
Detector 1 :FID
Detector 2 :PID
Notes :FOR TVH/BTXE ANALYSES

Instrument Control Method:

Instrument name : GC19_TVHBTXE

Interface Parameters :

Delay Time : 0.00 min.
Run Time : 26.80 min.
Sampling Rate : 1.0000 pts/s
Interface Type : 900
Analog Voltage Input : 10000 mV
Data will be collected from channel B

Timed Events:

There are no timed events in the method

Real Time Plot Parameters :

Channel A -- Pages: 1 Offset: 0.000 mV Scale: 1000.000 mV
Channel B -- Pages: 1 Offset: 1.000 mV Scale: 250.000 mV

Processing Parameters :

Bunch Factor : 1 points
Noise Threshold : 15 μ V
Area Threshold : 75.00 μ V

Peak Separation Criteria

Width Ratio : 0.200
Valley-to-Peak Ratio : 0.010

Exponential Skim Criteria

Peak Height Ratio : 5.000

Valley Height Ratio : 3.000

Baseline Timed Events :

No baseline timed events

Annotated Replot Parameters :

Offset will be autozeroed
Plot Scale : 250.000 mV

Number of Pages : 1

Plot Title : GC19 TVHBTXE 'Y' BTXE QUANT.

X-Axis Label : Time [min]

Y-Axis Label : Response [mV]

Orientation : Landscape

Retention Labels : Peak Crests

Component Labels : Actual Time

Automatically set plot start and end times to data limits

Report Format files :

No report format files given

User Programs :

No user programs will be executed

Global Information :

Default Sample Volume : 1.000 uL

Quantitation Units : mg/L

Void Time : 0.000 min

Correct amounts during calibration : NO

Reject outliers during calibration : NO

An External Standard calibration will be used

Unknown peaks will be quantitated using a response factor of 1.000000e+06

Component Information :

MTBE

Component Type : Single Peak Component

Retention Time : 3.882 min Search Window: 13.62 s, 0.00 %

Reference Component: TRIFLUOROTOLUENE

Find peak closest to expected RT in window

Use Average Calibration Factor (Area / Amount)

User Values:

Label : MTBE

Value 1: 100.000000

Value 2: 0.000000

Value 3: 0.000000

Value 4: 0.000000

Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
MTBE 1	10.0000	7130.00	1057.02	-----	-----	1
MTBE 2	25.0000	14210.00	2321.86	-----	-----	1
MTBE 3	100.0000	48470.00	8472.63	-----	-----	1
MTBE 4	500.0000	231112.08	42734.11	-----	-----	1
MTBE 5	1000.0000	458962.14	87792.77	-----	-----	1

BENZENE

Component Type : Single Peak Component
 Retention Time : 5.929 min Search Window: 19.50 s, 0.00 %
 Reference Component: TRIFLUOROTOLUENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : BENZENE
 Value 1: 100.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	5764.38	1112.82	-----	-----	1
BTXE 2	25.0000	44690.00	9736.05	-----	-----	1
BTXE 3	100.0000	199620.00	44669.08	-----	-----	1
BTXE 4	500.0000	1099615.00	247971.28	-----	-----	1
BTXE 5	1000.0000	2076430.00	463733.65	-----	-----	1

Average Calibration Factor = 2073.042562 (%RSD = 9.57)

TRIFLUOROTOLUENE

Component Type : Single Peak Component
 Retention Time : 7.406 min Search Window: 21.75 s, 0.00 %
 Reference Component:
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : TFT
 Value 1: 450.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
TFT/BFB 1	150.0000	103625.00	21339.85	-----	-----	1
TFT/BFB 2	225.0000	143330.00	30416.08	-----	-----	1
TFT/BFB 3	450.0000	307712.99	66153.55	-----	-----	1
TFT/BFB 4	675.0000	456876.57	99000.97	-----	-----	1
TFT/BFB 5	950.0000	636110.00	138845.31	-----	-----	1

Average Calibration Factor = 671.621170 (%RSD = 3.11)

TOLUENE

Component Type : Single Peak Component
 Retention Time : 9.527 min Search Window: 24.33 s, 0.00 %
 Reference Component: TRIFLUOROTOLUENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : TOLUENE
 Value 1: 100.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	4830.00	1073.33	-----	-----	1
BTXE 2	25.0000	41450.00	8863.77	-----	-----	1
BTXE 3	100.0000	187091.27	40784.64	-----	-----	1
BTXE 4	500.0000	1048727.64	236227.91	-----	-----	1
BTXE 5	1000.0000	2028802.19	455042.77	-----	-----	1

Average Calibration Factor = 1917.434041 (%RSD = 8.82)

ETHYLBENZENE

Component Type : Single Peak Component
 Retention Time : 13.416 min Search Window: 26.33 s, 0.00 %
 Reference Component: BROMOFLUOROBENZENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : ETHYLBENZENE
 Value 1: 100.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	4190.00	876.58	-----	-----	1
BTXE 2	25.0000	36490.00	7766.96	-----	-----	1
BTXE 3	100.0000	162540.00	35451.27	-----	-----	1
BTXE 4	500.0000	926010.00	207044.46	-----	-----	1
BTXE 5	1000.0000	1844780.00	402531.01	-----	-----	1

Average Calibration Factor = 1691.560000 (%RSD = 9.70)

m,p-XYLENE

Component Type : Single Peak Component
 Retention Time : 13.756 min Search Window: 26.37 s, 0.00 %
 Reference Component: BROMOFLUOROBENZENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : m,p-XYLENE
 Value 1: 100.000000
 Value 2: 200.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	5.0000	10500.00	1872.98	-----	-----	1
BTXE 2	50.0000	83910.00	16214.61	-----	-----	1
BTXE 3	200.0000	389405.00	79084.53	-----	-----	1
BTXE 4	1000.0000	2161820.00	435295.92	-----	-----	1
BTXE 5	2000.0000	4220920.00	833800.36	-----	-----	1

Average Calibration Factor = 1999.501000 (%RSD = 9.84)

o-XYLENE

Component Type : Single Peak Component
 Retention Time : 14.752 min Search Window: 26.68 s, 0.00 %
 Reference Component: BROMOFLUOROBENZENE

Use Average Calibration Factor (Area / Amount)

User Values:

Label : o-XYLENE
Value 1: 100.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	3820.00	816.66	-----	-----	1
BTXE 2	25.0000	34490.00	7058.71	-----	-----	1
BTXE 3	100.0000	152090.00	32468.03	-----	-----	1
BTXE 4	500.0000	856225.00	187143.55	-----	-----	1
BTXE 5	1000.0000	1711060.00	371501.90	-----	-----	1

Average Calibration Factor = 1570.402000 (%RSD = 9.04)

BROMOFLUOROBENZENE

Component Type : Single Peak Component
Retention Time : 16.011 min Search Window: 26.69 s, 0.00 %

Reference Component:

Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

User Values:

Label : BFB
Value 1: 450.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
TFT/BFB 1	150.0000	211070.00	40550.57	-----	-----	1
TFT/BFB 2	225.0000	282970.00	55755.39	-----	-----	1
TFT/BFB 3	450.0000	586510.00	119044.69	-----	-----	1
TFT/BFB 4	675.0000	881010.00	181013.39	-----	-----	1
TFT/BFB 5	950.0000	1219351.27	247944.49	-----	-----	1

Average Calibration Factor = 1311.372196 (%RSD = 4.34)

Calibration Replicate Lists:

Component: MTBE

Level : MTBE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
7130.00	1057.02	10.0000	-----	-----	6/2/99 12:11 PM	149Y021P

Level : MTBE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
14210.00	2321.86	25.0000	-----	-----	6/2/99 12:11 PM	149Y022P

Level : MTBE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
48470.00	8472.63	100.0000	-----	-----	6/2/99 12:11 PM	149Y023P

Level : MIBE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
231112.08	42734.11	500.0000	-----	-----	6/2/99 12:11 PM	149Y024P

Level : MTBE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
458962.14	87792.77	1000.0000	-----	-----	6/2/99 12:11 PM	149Y025P

Component: BENZENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
5764.38	1112.82	2.5000	-----	-----	6/1/99 03:07 PM	149Y020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
44690.00	9736.05	25.0000	-----	-----	6/1/99 03:07 PM	149Y022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
199620.00	44669.08	100.0000	-----	-----	6/1/99 03:07 PM	149Y023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1099615.00	247971.28	500.0000	-----	-----	6/1/99 03:07 PM	149Y024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2076430.00	463733.65	1000.0000	-----	-----	6/1/99 03:08 PM	149Y025.

Component: TRIFLUOROTOLUENE

Level : TFT/BFB 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
103625.00	21339.85	150.0000	-----	-----	6/1/99 03:13 PM	152Y002.

Level : TFT/BFB 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
143330.00	30416.08	225.0000	-----	-----	6/1/99 03:13 PM	152Y003.

Level : TFT/BFB 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
307712.99	66153.55	450.0000	-----	-----	6/1/99 03:13 PM	152Y004.

Level : TFT/BFB 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
-----	-----	-----	-----	-----	-----	-----

Level : TFT/BFB 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
636110.00	138845.31	950.0000	-----	-----	6/1/99 03:13 PM	152Y006.

Component: TOLUENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
4830.00	1073.33	2.5000	-----	-----	6/1/99 03:07 PM	149Y020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
41450.00	8863.77	25.0000	-----	-----	6/1/99 03:07 PM	149Y022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
187091.27	40784.64	100.0000	-----	-----	6/1/99 03:07 PM	149Y023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1048727.64	236227.91	500.0000	-----	-----	6/1/99 03:07 PM	149Y024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2028802.19	455042.77	1000.0000	-----	-----	6/1/99 03:08 PM	149Y025.

Component: ETHYLBENZENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
4190.00	876.58	2.5000	-----	-----	6/1/99 03:07 PM	149Y020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
36490.00	7766.96	25.0000	-----	-----	6/1/99 03:07 PM	149Y022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
162540.00	35451.27	100.0000	-----	-----	6/1/99 03:07 PM	149Y023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
926010.00	207044.46	500.0000	-----	-----	6/1/99 03:07 PM	149Y024.

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1844780.00	402531.01	1000.0000	-----	-----	6/1/99 03:08 PM	149Y025.

Component: m,p-XYLENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
10500.00	1872.98	5.0000	-----	-----	6/1/99 03:07 PM	149Y020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
83910.00	16214.61	50.0000	-----	-----	6/1/99 03:07 PM	149Y022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
389405.00	79084.53	200.0000	-----	-----	6/1/99 03:07 PM	149Y023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2161820.00	435295.92	1000.0000	-----	-----	6/1/99 03:07 PM	149Y024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
4220920.00	833800.36	2000.0000	-----	-----	6/1/99 03:08 PM	149Y025.

Component: o-XYLENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
3820.00	816.66	2.5000	-----	-----	6/1/99 03:07 PM	149Y020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
34490.00	7058.71	25.0000	-----	-----	6/1/99 03:07 PM	149Y022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
152090.00	32468.03	100.0000	-----	-----	6/1/99 03:07 PM	149Y023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
856225.00	187143.55	500.0000	-----	-----	6/1/99 03:07 PM	149Y024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
-----	-----	-----	-----	-----	-----	-----

Component: BROMOFLUOROBENZENE

Level : TFT/BFB 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
211070.00	40550.57	150.0000	-----	-----	6/1/99 03:13 PM	152Y002.

Level : TFT/BFB 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
282970.00	55755.39	225.0000	-----	-----	6/1/99 03:13 PM	152Y003.

Level : TFT/BFB 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
586510.00	119044.69	450.0000	-----	-----	6/1/99 03:13 PM	152Y004.

Level : TFT/BFB 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
881010.00	181013.39	675.0000	-----	-----	6/1/99 03:13 PM	152Y005.

Level : TFT/BFB 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1219351.27	247944.49	950.0000	-----	-----	6/1/99 03:13 PM	152Y006.

Turbochrom Method File : G:\GC19\METHODS\Z_060199.MTH
Created by : AMP on : 6/1/99 03:21 PM
Edited by : BOB on : 6/2/99 12:53 PM
Description : GC19 BTXE CHANNEL A 'Z' DATA FILE
BTXE ICAL 6-1-99 FROM MAY29.SEQ
TFT & BFB ICAL 6-1-99 FROM JUN01.SEQ

Number of Times Edited : 2
Number of Times Calibrated : 32

Instrument Conditions :

Capillary GC - GC19 BTXE
Instrument :HP-5890
Column :DB-624
Column Length :30m
Carrier Gas :He
Flow Rate :5 mls/min
Split Ratio :NA
Temperature :40 - 225
Injection Temp.:200
Detector 1 :PID
Detector 2 :
Notes :BTXE ANALYSIS

Instrument Control Method:

Instrument name : GC19_TVHBTXE

Interface Parameters :

Delay Time : 0.00 min.
Run Time : 26.80 min.
Sampling Rate : 1.0000 pts/s
Interface Type : 900
Analog Voltage Input : 10000 mV
Data will be collected from channel A

Timed Events:

There are no timed events in the method

Real Time Plot Parameters :

Channel A -- Pages: 1 Offset: 0.000 mV Scale: 250.000 mV
Channel B -- Pages: 1 Offset: 0.000 mV Scale: 1000.000 mV

Processing Parameters :

Bunch Factor : 1 points
Noise Threshold : 15 μ V
Area Threshold : 75.00 μ V

Peak Separation Criteria

Width Ratio : 0.200
Valley-to-Peak Ratio : 0.010

Exponential Skim Criteria

Adjusted Height Ratio : 4.000
Valley Height Ratio : 3.000

Baseline Timed Events :
No baseline timed events

Annotated Replot Parameters :
Offset & Scale determined automatically
Scale Factor : 1.000000

Number of Pages : 1
Plot Title : Chromatogram
X-Axis Label : Time [min]
Y-Axis Label : Response [mV]
Orientation : Landscape
Retention Labels : Peak Crests
Component Labels : Actual Time
Start Time : 0.00
End Time : 30.00

Report Format files :
No report format files given

User Programs :
No user programs will be executed

Global Information :
Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : NO
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06

Component Information :

MTBE

Component Type : Single Peak Component
Retention Time : 3.727 min Search Window: 13.14 s, 0.00 %
Reference Component: TRIFLUOROTOLUENE
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
User Values:

Label : MTBE
Value 1: 100.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
MTBE 1	10.0000	3740.00	519.72	-----	-----	1
MTBE 2	25.0000	7244.00	1270.80	-----	-----	1
MTBE 3	100.0000	28445.00	5117.83	-----	-----	1
MTBE 4	500.0000	141872.16	27280.55	-----	-----	42

BENZENE

Component Type : Single Peak Component
 Retention Time : 5.493 min Search Window: 18.72 s, 0.00 %
 Reference Component: TRIFLUOROTOLUENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)

User Values:

Label : BENZENE
 Value 1: 100.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	2795.00	564.35	-----	-----	1
BTXE 2	25.0000	26027.65	6030.43	-----	-----	1
BTXE 3	100.0000	125600.00	28964.71	-----	-----	1
BTXE 4	500.0000	657170.00	144232.27	-----	-----	1
BTXE 5	1000.0000	1197300.00	259598.78	-----	-----	1

Average Calibration Factor = 1185.349176 (%RSD = 9.16)

TRIFLUOROTOLUENE

Component Type : Single Peak Component
 Retention Time : 6.884 min Search Window: 21.24 s, 0.00 %
 Reference Component:
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)

User Values:

Label : TFT
 Value 1: 450.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
TFT/BFB 1	150.0000	60810.00	13396.00	-----	-----	1
TFT/BFB 2	225.0000	88920.00	19043.77	-----	-----	1
TFT/BFB 3	450.0000	186680.00	40411.27	-----	-----	1
TFT/BFB 4	675.0000	272485.00	58594.38	-----	-----	1
TFT/BFB 5	950.0000	375041.00	79749.76	-----	-----	1

Average Calibration Factor = 402.781185 (%RSD = 2.06)

TOLUENE

Component Type : Single Peak Component
 Retention Time : 8.947 min Search Window: 23.93 s, 0.00 %
 Reference Component: TRIFLUOROTOLUENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)

User Values:

Label : TOLUENE
 Value 1: 100.000000
 Value 2: 0.000000

Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	2655.00	547.98	-----	-----	1
BTXE 2	25.0000	25712.86	5432.67	-----	-----	1
BTXE 3	100.0000	115725.00	26011.80	-----	-----	1
BTXE 4	500.0000	610720.00	133434.49	-----	-----	1
BTXE 5	1000.0000	1153760.00	247918.73	-----	-----	1

Average Calibration Factor = 1124.592857 (%RSD = 6.95)

ETHYLBENZENE

Component Type : Single Peak Component
Retention Time : 12.715 min Search Window: 26.30 s, 0.00 %
Reference Component: BROMOFLUOROBENZENE
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
User Values:

Label : ETHYLBENZENE
Value 1: 100.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	2030.00	432.13	-----	-----	1
BTXE 2	25.0000	21150.00	4541.22	-----	-----	1
BTXE 3	100.0000	103010.00	22270.47	-----	-----	1
BTXE 4	500.0000	540060.00	114681.14	-----	-----	1
BTXE 5	1000.0000	1044160.00	217712.54	-----	-----	1

Average Calibration Factor = 962.476000 (%RSD = 12.86)

m,p-XYLENE

Component Type : Single Peak Component
Retention Time : 13.098 min Search Window: 26.46 s, 0.00 %
Reference Component: BROMOFLUOROBENZENE
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
User Values:

Label : m,p-XYLENE
Value 1: 100.000000
Value 2: 200.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	5.0000	5010.00	789.11	-----	-----	1
BTXE 2	50.0000	50895.00	8324.02	-----	-----	1
BTXE 3	200.0000	241135.00	39253.41	-----	-----	1
BTXE 4	1000.0000	1224755.00	197193.70	-----	-----	1
BTXE 5	2000.0000	2345790.00	378270.15	-----	-----	1

Average Calibration Factor = 1124.645000 (%RSD = 9.47)

o-XYLENE

Component Type : Single Peak Component

Reference Component: BROMOFLUOROBENZENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)

User Values:

Label : o-XYLENE
 Value 1: 100.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	1950.00	398.34	-----	-----	1
BTXE 2	25.0000	20250.00	4157.87	-----	-----	1
BTXE 3	100.0000	95870.00	20372.71	-----	-----	1
BTXE 4	500.0000	504270.00	105961.56	-----	-----	1
BTXE 5	1000.0000	980030.00	204373.20	-----	-----	1

Average Calibration Factor = 907.454000 (%RSD = 11.54)

BROMOFLUOROBENZENE

Component Type : Single Peak Component
 Retention Time : 14.953 min Search Window: 26.88 s, 0.00 %

Reference Component:

Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)

User Values:

Label : BFB
 Value 1: 450.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
TFT/BFB 1	150.0000	123050.00	23776.84	-----	-----	1
TFT/BFB 2	225.0000	165460.00	31453.91	-----	-----	1
TFT/BFB 3	450.0000	338380.00	65437.06	-----	-----	1
TFT/BFB 4	675.0000	502945.00	97909.35	-----	-----	1
TFT/BFB 5	950.0000	685880.00	133774.22	-----	-----	1

Average Calibration Factor = 754.949864 (%RSD = 5.07)

Calibration Replicate Lists:

Component: MTBE

Level : MTBE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
3740.00	519.72	10.0000	-----	-----	6/2/99 12:48 PM	1492021P

Level : MTBE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
7244.00	1270.80	25.0000	-----	-----	6/2/99 12:48 PM	1492022.

Level : MTBE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
28445.00	5117.83	100.0000	-----	-----	6/2/99 12:48 PM	1492023.

Level : MTBE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
141872.16	27280.55	500.0000	-----	-----	6/2/99 12:48 PM	149Z024.

Level : MTBE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
281687.99	54450.49	1000.0000	-----	-----	6/2/99 12:48 PM	149Z025P

Component: BENZENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2795.00	564.35	2.5000	-----	-----	6/1/99 03:19 PM	149Z020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
26027.65	6030.43	25.0000	-----	-----	6/1/99 03:19 PM	149Z022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
125600.00	28964.71	100.0000	-----	-----	6/1/99 03:19 PM	149Z023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
657170.00	144232.27	500.0000	-----	-----	6/1/99 03:19 PM	149Z024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1197300.00	259598.78	1000.0000	-----	-----	6/1/99 03:19 PM	149Z025.

Component: TRIFLUOROTOLUENE

Level : TFT/BFB 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
60810.00	13396.00	150.0000	-----	-----	6/1/99 03:19 PM	152Z002.

Level : TFT/BFB 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
88920.00	19043.77	225.0000	-----	-----	6/1/99 03:19 PM	152Z003.

Level : TFT/BFB 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
186680.00	40411.27	450.0000	-----	-----	6/1/99 03:19 PM	152Z004.

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
272485.00	58594.38	675.0000	-----	-----	6/1/99 03:19 PM	152Z005.

Level : TFT/BFB 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
375041.00	79749.76	950.0000	-----	-----	6/1/99 03:19 PM	152Z006.

Component: TOLUENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2655.00	547.98	2.5000	-----	-----	6/1/99 03:19 PM	149Z020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
25712.86	5432.67	25.0000	-----	-----	6/1/99 03:19 PM	149Z022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
115725.00	26011.80	100.0000	-----	-----	6/1/99 03:19 PM	149Z023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
610720.00	133434.49	500.0000	-----	-----	6/1/99 03:19 PM	149Z024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1153760.00	247918.73	1000.0000	-----	-----	6/1/99 03:19 PM	149Z025.

Component: ETHYLBENZENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2030.00	432.13	2.5000	-----	-----	6/1/99 03:19 PM	149Z020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
21150.00	4541.22	25.0000	-----	-----	6/1/99 03:19 PM	149Z022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
103010.00	22270.47	100.0000	-----	-----	6/1/99 03:19 PM	149Z023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
-----	-----	-----	-----	-----	-----	-----

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1044160.00	217712.54	1000.0000	-----	-----	6/1/99 03:19 PM	149Z025.

Component: m,p-XYLENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
5010.00	789.11	5.0000	-----	-----	6/1/99 03:19 PM	149Z020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
50895.00	8324.02	50.0000	-----	-----	6/1/99 03:19 PM	149Z022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
241135.00	39253.41	200.0000	-----	-----	6/1/99 03:19 PM	149Z023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1224755.00	197193.70	1000.0000	-----	-----	6/1/99 03:19 PM	149Z024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2345790.00	378270.15	2000.0000	-----	-----	6/1/99 03:19 PM	149Z025.

Component: o-XYLENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1950.00	398.34	2.5000	-----	-----	6/1/99 03:19 PM	149Z020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
20250.00	4157.87	25.0000	-----	-----	6/1/99 03:19 PM	149Z022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
95870.00	20372.71	100.0000	-----	-----	6/1/99 03:19 PM	149Z023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
504270.00	105961.56	500.0000	-----	-----	6/1/99 03:19 PM	149Z024.

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
980030.00	204373.20	1000.0000	-----	-----	6/1/99 03:19 PM	149Z025.

Component: BROMOFLUOROBENZENE

Level : TFT/BFB 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
123050.00	23776.84	150.0000	-----	-----	6/1/99 03:19 PM	152Z002.

Level : TFT/BFB 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
165460.00	31453.91	225.0000	-----	-----	6/1/99 03:19 PM	152Z003.

Level : TFT/BFB 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
338380.00	65437.06	450.0000	-----	-----	6/1/99 03:19 PM	152Z004.

Level : TFT/BFB 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
502945.00	97909.35	675.0000	-----	-----	6/1/99 03:19 PM	152Z005.

Level : TFT/BFB 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
685880.00	133774.22	950.0000	-----	-----	6/1/99 03:19 PM	152Z006.

Turbochrom Method File : G:\GC05\METHODS\G_060299.MIH
Created by : AMP on : 6/8/99 03:12 PM
Edited by : jdk on : 6/8/99 03:28 PM
Description : GC05 TVH 'G' DATA FILE
TVH ICAL 6/3/99 FROM JUN02.SEQ
JP-4 ICAL 6/2/99 FROM MAY29.SEQ
TFT/BFB ICAL 6/8/99 FROM JUN04.SEQ

Number of Times Edited : 1
Number of Times Calibrated : 43

Global Information :

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : YES
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06

Component Information :

TRIFLUOROTOLUENE

Component Type : Single Peak Component
Retention Time : 8.586 min Search Window: 5.11 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
User Values:

Label :
Value 1: 450.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replic
TFT/BFB 1	150.0000	285930.00	31593.12	-----	-----	1
TFT/BFB 2	225.0000	416810.00	45733.65	-----	-----	1
TFT/BFB 3	450.0000	818355.00	90915.18	-----	-----	1
TFT/BFB 4	675.0000	1252208.89	135905.49	-----	-----	1
TFT/BFB 5	950.0000	1718761.98	188165.40	-----	-----	1

Average Calibration Factor = 1848.320593 (%RSD = 2.07)

GAS:6-10 SURROGATES

Component Type : Named Group
Group Members:
TRIFLUOROTOLUENE
BROMOFLUOROBENZENE

Quantitation will use calibration reference : GAS:6-10

Component Type : Named Group

Group Members:

TRIFLUOROTOLUENE
BROMOFLUOROBENZENE

Quantitation will use calibration reference : JP4:7-12

GAS:7-12 SURROGATES

Component Type : Named Group

Group Members:

TRIFLUOROTOLUENE
BROMOFLUOROBENZENE

Quantitation will use calibration reference : GAS:7-12

GAS:6-10

Component Type : Timed Group

Start Time : 3.855 min End Time : 18.175 min

Reference Component:

Quantitation will be done using response factor = 1381.347000

GAS:7-12

Component Type : Timed Group

Start Time : 7.010 min End Time : 24.502 min

Reference Component:

Quantitation will be done using response factor = 1487.275100

JP4:7-12

Component Type : Timed Group

Start Time : 7.010 min End Time : 24.502 min

Reference Component:

Quantitation will be done using response factor = 1964.994200

BROMOFLUOROBENZENE

Component Type : Single Peak Component

Retention Time : 17.688 min Search Window: 5.88 s, 0.00 %

Reference Component:

Find peak closest to expected RT in window

Use Average Calibration Factor (Area / Amount)

User Values:

Label :

Value 1: 450.000000

Value 2: 0.000000

Value 3: 0.000000

Value 4: 0.000000

Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replic
TFT/BFB 1	150.0000	186680.00	28821.72	-----	-----	1
TFT/BFB 2	225.0000	272850.00	42519.03	-----	-----	1
TFT/BFB 3	450.0000	545480.00	86235.39	-----	-----	1

Calibration Replicate Lists:

Component: TRIFLUOROTOLUENE

Level : TFT/BFB 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
285930.00	31593.12	150.0000	-----	-----	6/8/99 03:27 PM	155G002P

Level : TFT/BFB 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
416810.00	45733.65	225.0000	-----	-----	6/8/99 03:27 PM	155G003P

Level : TFT/BFB 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
818355.00	90915.18	450.0000	-----	-----	6/8/99 03:28 PM	155G004P

Level : TFT/BFB 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1252208.89	135905.49	675.0000	-----	-----	6/8/99 03:28 PM	155G005P

Level : TFT/BFB 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1718761.98	188165.40	950.0000	-----	-----	6/8/99 03:28 PM	155G006P

Component: GAS:6-10 SURROGATES

This component has no calibration levels

Component: JP4:7-12 SURROGATES

Level : TFT/BFB 1

This level has no replicate injections

Level : TFT/BFB 2

This level has no replicate injections

Level : GAS 1

This level has no replicate injections

Level : JP4 1

This level has no replicate injections

Level : TFT/BFB 3

This level has no replicate injections

This level has no replicate injections

Level : JP4 2

This level has no replicate injections

Level : TFT/BFB 4

This level has no replicate injections

Level : TFT/BFB 5

This level has no replicate injections

Level : GAS 3

This level has no replicate injections

Level : JP4 3

This level has no replicate injections

Level : GAS 4

This level has no replicate injections

Level : JP4 4

This level has no replicate injections

Level : GAS 5

This level has no replicate injections

Level : JP4 5

This level has no replicate injections

Level : GAS 6

This level has no replicate injections

Level : JP4 6

This level has no replicate injections

Level : GAS 7

This level has no replicate injections

Level : JP4 7

This level has no replicate injections

Level : GAS 8

This level has no replicate injections

Level : JP4 8

This level has no replicate injections

Component: GAS:7-12 SURROGATES

Level : TFT/BFB 1

Level : TFT/BFB 2
This level has no replicate injections

Level : GAS 1
This level has no replicate injections

Level : JP4 1
This level has no replicate injections

Level : TFT/BFB 3
This level has no replicate injections

Level : GAS 2
This level has no replicate injections

Level : JP4 2
This level has no replicate injections

Level : TFT/BFB 4
This level has no replicate injections

Level : TFT/BFB 5
This level has no replicate injections

Level : GAS 3
This level has no replicate injections

Level : JP4 3
This level has no replicate injections

Level : GAS 4
This level has no replicate injections

Level : JP4 4
This level has no replicate injections

Level : GAS 5
This level has no replicate injections

Level : JP4 5
This level has no replicate injections

Level : GAS 6
This level has no replicate injections

Level : JP4 6
This level has no replicate injections

Level : GAS 7

Level : JP4 7
This level has no replicate injections

Level : GAS 8
This level has no replicate injections

Level : JP4 8
This level has no replicate injections

Component: GAS:6-10
This component has no calibration levels

Component: GAS:7-12

Level : GAS 1
This level has no replicate injections

Level : GAS 2
This level has no replicate injections

Level : GAS 3
This level has no replicate injections

Level : GAS 4
This level has no replicate injections

Level : GAS 5
This level has no replicate injections

Level : GAS 6
This level has no replicate injections

Level : GAS 7
This level has no replicate injections

Level : GAS 8
This level has no replicate injections

Level : GAS 9
This level has no replicate injections

Component: JP4:7-12

Level : JP4 1
This level has no replicate injections

Level : JP4 2
This level has no replicate injections

Level : JP4 4
 This level has no replicate injections

Level : JP4 5
 This level has no replicate injections

Level : JP4 6
 This level has no replicate injections

Level : JP4 7
 This level has no replicate injections

Level : JP4 8
 This level has no replicate injections

Level : JP4 9
 This level has no replicate injections

Component: BROMOFLUOROBENZENE

Level : TFT/BFB 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
186680.00	28821.72	150.0000	-----	-----	6/8/99 03:27 PM	155G002P

Level : TFT/BFB 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
272850.00	42519.03	225.0000	-----	-----	6/8/99 03:27 PM	155G003P

Level : TFT/BFB 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
545480.00	86235.39	450.0000	-----	-----	6/8/99 03:28 PM	155G004P

Level : TFT/BFB 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
816838.82	130021.88	675.0000	-----	-----	6/8/99 03:28 PM	155G005P

Level : TFT/BFB 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1152310.00	184624.10	950.0000	-----	-----	6/8/99 03:28 PM	155G006P

File Name	Sample Name	ng	gas:7-12 Area [μ V-s]	gas:7-12 SURROGATES Area [μ V-s]	ADJUSTED AREA Area [μ V-s]	CAL FACTOR [μ V-s / NG]
153G019P	GAS 1	250	1780164	1363243	416921	1667.68
153G004	GAS 2	2500	5313118	1423919	3889199	1555.68
153G005	GAS 3	10000	18233285	1641247	16592038	1659.20
153G006	GAS 4	25000	32682363	1952941	30729422	1229.18
153G007	GAS 5	50000	68834827	2603269	66231558	1324.63

Avg. Calibration Factor

1487.2751

%RSD

13.4

QC STATUS >
(LIMITS: RSD < 20.5 %)

PASS

Turbochrom Method File : G:\GC19\METHODS\Y_063099.MTH
Created by : AMP on : 6/30/99 01:38 PM
Edited by : TEW on : 6/30/99 01:38 PM
Description : GC19 BTXE CHANNEL B PID 'Y' DATA FILE
MBTXE ICAL 6-1-99 FROM MAY29.SEQ
TFT & BFB ICAL 6-1-99 FROM JUN01.SEQ
UPDATED RTs FROM 181Y002 JUN30.SEQ

Number of Times Edited : 0
Number of Times Calibrated : 32

Instrument Conditions :

Capillary GC -GC19 TVHBTXE
Instrument :HP-5890
Column :DB-5
Column Length :30m
Carrier Gas :He
Flow Rate :5 mls/min
Split Ratio :NA
Temperature :40 - 225
Injection Temp.:200
Detector 1 :FID
Detector 2 :PID
Notes :FOR TVH/BTXE ANALYSES

Instrument Control Method:

Instrument name : GC19_TVHBTXE

Interface Parameters :

Delay Time : 0.00 min.
Run Time : 26.80 min.
Sampling Rate : 1.0000 pts/s
Interface Type : 900
Analog Voltage Input : 10000 mV
Data will be collected from channel B

Timed Events:

There are no timed events in the method

Real Time Plot Parameters :

Channel A -- Pages: 1 Offset: 0.000 mV Scale: 1000.000 mV
Channel B -- Pages: 1 Offset: 1.000 mV Scale: 250.000 mV

Processing Parameters :

Bunch Factor : 1 points
Noise Threshold : 15 μ V
Area Threshold : 75.00 μ V

Peak Separation Criteria

Width Ratio : 0.200
Valley-to-Peak Ratio : 0.010

Exponential Skim Criteria

Peak Height Ratio : 5.000
Adjusted Height Ratio : 4.000
Valley Height Ratio : 3.000

Baseline Timed Events :
No baseline timed events

Annotated Replot Parameters :
Offset will be autozeroed
Plot Scale : 250.000 mV

Number of Pages : 1
Plot Title : GC19 TVHBTXE 'Y' BTXE QUANT.
X-Axis Label : Time [min]
Y-Axis Label : Response [mV]
Orientation : Landscape
Retention Labels : Peak Crests
Component Labels : Actual Time
Automatically set plot start and end times to data limits

Report Format files :
No report format files given

User Programs :
No user programs will be executed

Global Information :
Default Sample Volume : 1.000 uL
Quantitation Units : mg/L
Void Time : 0.000 min
Correct amounts during calibration : NO
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06

Component Information :
MTBE

Component Type : Single Peak Component
Retention Time : 4.125 min Search Window: 13.62 s, 0.00 %
Reference Component: TRIFLUOROTOLUENE
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
User Values:

Label : MTBE
Value 1: 100.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
MTBE 1	10.0000	7130.00	1057.02	-----	-----	1
MTBE 2	25.0000	14210.00	2321.86	-----	-----	1
MTBE 3	100.0000	48470.00	8472.63	-----	-----	1
MTBE 4	500.0000	231112.08	42734.11	-----	-----	1
MTBE 5	1000.0000	458962.14	87792.77	-----	-----	1

BENZENE

Component Type : Single Peak Component
 Retention Time : 6.228 min Search Window: 19.50 s, 0.00 %
 Reference Component: TRIFLUOROTOLUENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : BENZENE
 Value 1: 100.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	5764.38	1112.82	-----	-----	1
BTXE 2	25.0000	44690.00	9736.05	-----	-----	1
BTXE 3	100.0000	199620.00	44669.08	-----	-----	1
BTXE 4	500.0000	1099615.00	247971.28	-----	-----	1
BTXE 5	1000.0000	2076430.00	463733.65	-----	-----	1

Average Calibration Factor = 2073.042562 (%RSD = 9.57)

TRIFLUOROTOLUENE

Component Type : Single Peak Component
 Retention Time : 7.736 min Search Window: 21.75 s, 0.00 %
 Reference Component:
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : TFT
 Value 1: 450.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
TFT/BFB 1	150.0000	103625.00	21339.85	-----	-----	1
TFT/BFB 2	225.0000	143330.00	30416.08	-----	-----	1
TFT/BFB 3	450.0000	307712.99	66153.55	-----	-----	1
TFT/BFB 4	675.0000	456876.57	99000.97	-----	-----	1
TFT/BFB 5	950.0000	636110.00	138845.31	-----	-----	1

Average Calibration Factor = 671.621170 (%RSD = 3.11)

TOLUENE

Component Type : Single Peak Component
 Retention Time : 9.891 min Search Window: 24.33 s, 0.00 %
 Reference Component: TRIFLUOROTOLUENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : TOLUENE
 Value 1: 100.000000
 Value 2: 0.000000
 Value 3: 0.000000

Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	4830.00	1073.33	-----	-----	1
BTXE 2	25.0000	41450.00	8863.77	-----	-----	1
BTXE 3	100.0000	187091.27	40784.64	-----	-----	1
BTXE 4	500.0000	1048727.64	236227.91	-----	-----	1
BTXE 5	1000.0000	2028802.19	455042.77	-----	-----	1

Average Calibration Factor = 1917.434041 (%RSD = 8.82)

ETHYLBENZENE

Component Type : Single Peak Component
Retention Time : 13.810 min Search Window: 26.33 s, 0.00 %
Reference Component: BROMOFLUOROBENZENE
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
User Values:

Label : ETHYLBENZENE
Value 1: 100.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	4190.00	876.58	-----	-----	1
BTXE 2	25.0000	36490.00	7766.96	-----	-----	1
BTXE 3	100.0000	162540.00	35451.27	-----	-----	1
BTXE 4	500.0000	926010.00	207044.46	-----	-----	1
BTXE 5	1000.0000	1844780.00	402531.01	-----	-----	1

Average Calibration Factor = 1691.560000 (%RSD = 9.70)

m,p-XYLENE

Component Type : Single Peak Component
Retention Time : 14.149 min Search Window: 26.37 s, 0.00 %
Reference Component: BROMOFLUOROBENZENE
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
User Values:

Label : m,p-XYLENE
Value 1: 100.000000
Value 2: 200.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	5.0000	10500.00	1872.98	-----	-----	1
BTXE 2	50.0000	83910.00	16214.61	-----	-----	1
BTXE 3	200.0000	389405.00	79084.53	-----	-----	1
BTXE 4	1000.0000	2161820.00	435295.92	-----	-----	1
BTXE 5	2000.0000	4220920.00	833800.36	-----	-----	1

Average Calibration Factor = 1999.501000 (%RSD = 9.84)

o-XYLENE

Component Type : Single Peak Component
Retention Time : 15.152 min Search Window: 26.68 s, 0.00 %

Reference Component: BROMOFLUOROBENZENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : o-XYLENE
 Value 1: 100.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	3820.00	816.66	-----	-----	1
BTXE 2	25.0000	34490.00	7058.71	-----	-----	1
BTXE 3	100.0000	152090.00	32468.03	-----	-----	1
BTXE 4	500.0000	856225.00	187143.55	-----	-----	1
BTXE 5	1000.0000	1711060.00	371501.90	-----	-----	1

Average Calibration Factor = 1570.402000 (%RSD = 9.04)

BROMOFLUOROBENZENE

Component Type : Single Peak Component
 Retention Time : 16.418 min Search Window: 26.69 s, 0.00 %
 Reference Component:
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : BFB
 Value 1: 450.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
TFT/BFB 1	150.0000	211070.00	40550.57	-----	-----	1
TFT/BFB 2	225.0000	282970.00	55755.39	-----	-----	1
TFT/BFB 3	450.0000	586510.00	119044.69	-----	-----	1
TFT/BFB 4	675.0000	881010.00	181013.39	-----	-----	1
TFT/BFB 5	950.0000	1219351.27	247944.49	-----	-----	1

Average Calibration Factor = 1311.372196 (%RSD = 4.34)

Calibration Replicate Lists:

Component: MTBE

Level : MTBE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
7130.00	1057.02	10.0000	-----	-----	6/2/99 12:11 PM	149Y021P

Level : MTBE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
14210.00	2321.86	25.0000	-----	-----	6/2/99 12:11 PM	149Y022P

Level : MTBE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
48470.00	8472.63	100.0000	-----	-----	6/2/99 12:11 PM	149Y023.

Level : MTBE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
231112.08	42734.11	500.0000	-----	-----	6/2/99 12:11 PM	149Y024P

Level : MTBE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
458962.14	87792.77	1000.0000	-----	-----	6/2/99 12:11 PM	149Y025P

Component: BENZENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
5764.38	1112.82	2.5000	-----	-----	6/1/99 03:07 PM	149Y020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
44690.00	9736.05	25.0000	-----	-----	6/1/99 03:07 PM	149Y022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
199620.00	44669.08	100.0000	-----	-----	6/1/99 03:07 PM	149Y023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1099615.00	247971.28	500.0000	-----	-----	6/1/99 03:07 PM	149Y024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2076430.00	463733.65	1000.0000	-----	-----	6/1/99 03:08 PM	149Y025.

Component: TRIFLUOROTOLUENE

Level : TFT/BFB 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
103625.00	21339.85	150.0000	-----	-----	6/1/99 03:13 PM	152Y002.

Level : TFT/BFB 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
143330.00	30416.08	225.0000	-----	-----	6/1/99 03:13 PM	152Y003.

Level : TFT/BFB 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
307712.99	66153.55	450.0000	-----	-----	6/1/99 03:13 PM	152Y004.

Level : TFT/BFB 4

456876.57 99000.97 675.0000 ----- 6/1/99 03:13 PM 152Y005.

Level : TFT/BFB 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
636110.00	138845.31	950.0000	-----	-----	6/1/99 03:13 PM	152Y006.

Component: TOLUENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
4830.00	1073.33	2.5000	-----	-----	6/1/99 03:07 PM	149Y020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
41450.00	8863.77	25.0000	-----	-----	6/1/99 03:07 PM	149Y022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
187091.27	40784.64	100.0000	-----	-----	6/1/99 03:07 PM	149Y023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1048727.64	236227.91	500.0000	-----	-----	6/1/99 03:07 PM	149Y024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2028802.19	455042.77	1000.0000	-----	-----	6/1/99 03:08 PM	149Y025.

Component: ETHYLBENZENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
4190.00	876.58	2.5000	-----	-----	6/1/99 03:07 PM	149Y020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
36490.00	7766.96	25.0000	-----	-----	6/1/99 03:07 PM	149Y022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
162540.00	35451.27	100.0000	-----	-----	6/1/99 03:07 PM	149Y023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
926010.00	207044.46	500.0000	-----	-----	6/1/99 03:07 PM	149Y024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1844780.00	402531.01	1000.0000	-----	-----	6/1/99 03:08 PM	149Y025.

Component: m,p-XYLENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
10500.00	1872.98	5.0000	-----	-----	6/1/99 03:07 PM	149Y020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
83910.00	16214.61	50.0000	-----	-----	6/1/99 03:07 PM	149Y022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
389405.00	79084.53	200.0000	-----	-----	6/1/99 03:07 PM	149Y023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2161820.00	435295.92	1000.0000	-----	-----	6/1/99 03:07 PM	149Y024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
4220920.00	833800.36	2000.0000	-----	-----	6/1/99 03:08 PM	149Y025.

Component: o-XYLENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
3820.00	816.66	2.5000	-----	-----	6/1/99 03:07 PM	149Y020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
34490.00	7058.71	25.0000	-----	-----	6/1/99 03:07 PM	149Y022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
152090.00	32468.03	100.0000	-----	-----	6/1/99 03:07 PM	149Y023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
856225.00	187143.55	500.0000	-----	-----	6/1/99 03:07 PM	149Y024.

Level : BTXE 5

Component: BROMOFLUOROBENZENE

Level : TFT/BFB 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
211070.00	40550.57	150.0000	-----	-----	6/1/99 03:13 PM	152Y002.

Level : TFT/BFB 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
282970.00	55755.39	225.0000	-----	-----	6/1/99 03:13 PM	152Y003.

Level : TFT/BFB 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
586510.00	119044.69	450.0000	-----	-----	6/1/99 03:13 PM	152Y004.

Level : TFT/BFB 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
881010.00	181013.39	675.0000	-----	-----	6/1/99 03:13 PM	152Y005.

Level : TFT/BFB 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1219351.27	247944.49	950.0000	-----	-----	6/1/99 03:13 PM	152Y006.

Turbochrom Method File : G:\GC19\METHODS\Z_063099.MTH
Created by : AMP on : 6/30/99 01:44 PM
Edited by : TEW on : 6/30/99 01:44 PM
Description : GC19_BTXE CHANNEL A 'Z' DATA FILE
MBTXE ICAL 6-1-99 FROM MAY29.SEQ
TFT & BFB ICAL 6-1-99 FROM JUN01.SEQ
UPDATED RTs FROM 181Z002 JUN30.SEQ

Number of Times Edited : 0
Number of Times Calibrated : 32

Instrument Conditions :

Capillary GC - GC19_BTXE
Instrument :HP-5890
Column :DB-624
Column Length :30m
Carrier Gas :He
Flow Rate :5 mls/min
Split Ratio :NA
Temperature :40 - 225
Injection Temp.:200
Detector 1 :PID
Detector 2 :
Notes :BTXE ANALYSIS

Instrument Control Method:

Instrument name : GC19_TVHBTXE

Interface Parameters :

Delay Time : 0.00 min.
Run Time : 26.80 min.
Sampling Rate : 1.0000 pts/s
Interface Type : 900
Analog Voltage Input : 10000 mV
Data will be collected from channel A

Timed Events:

There are no timed events in the method

Real Time Plot Parameters :

Channel A -- Pages: 1 Offset: 0.000 mV Scale: 250.000 mV
Channel B -- Pages: 1 Offset: 0.000 mV Scale: 1000.000 mV

Processing Parameters :

Bunch Factor : 1 points
Noise Threshold : 15 μ V
Area Threshold : 75.00 μ V

Peak Separation Criteria

Width Ratio : 0.200
Valley-to-Peak Ratio : 0.010

Exponential Skim Criteria
Peak Height Ratio : 5.000
Adjusted Height Ratio : 4.000
Valley Height Ratio : 3.000

Baseline Timed Events :
No baseline timed events

Annotated Replot Parameters :
Offset & Scale determined automatically
Scale Factor : 1.000000

Number of Pages : 1
Plot Title : Chromatogram
X-Axis Label : Time [min]
Y-Axis Label : Response [mV]
Orientation : Landscape
Retention Labels : Peak Crests
Component Labels : Actual Time
Start Time : 0.00
End Time : 30.00

Report Format files :
No report format files given

User Programs :
No user programs will be executed

Global Information :
Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : NO
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06

Component Information :
MTBE

Component Type : Single Peak Component
Retention Time : 3.966 min Search Window: 13.14 s, 0.00 %
Reference Component: TRIFLUOROTOLUENE
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
User Values:
Label : MTBE
Value 1: 100.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
MTBE 1	10.0000	3740.00	519.72	-----	-----	1
MTBE 2	25.0000	7244.00	1270.80	-----	-----	1

MTBE 3	100.0000	28445.00	5117.83	-----	-----	1
MTBE 4	500.0000	141872.16	27280.55	-----	-----	1
MTBE 5	1000.0000	281687.99	54450.49	-----	-----	1

Average Calibration Factor = 302.728462 (%RSD = 13.20)

BENZENE

Component Type : Single Peak Component
 Retention Time : 5.797 min Search Window: 18.72 s, 0.00 %
 Reference Component: TRIFLUOROTOLUENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : BENZENE
 Value 1: 100.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	2795.00	564.35	-----	-----	1
BTXE 2	25.0000	26027.65	6030.43	-----	-----	1
BTXE 3	100.0000	125600.00	28964.71	-----	-----	1
BTXE 4	500.0000	657170.00	144232.27	-----	-----	1
BTXE 5	1000.0000	1197300.00	259598.78	-----	-----	1

Average Calibration Factor = 1185.349176 (%RSD = 9.16)

TRIFLUOROTOLUENE

Component Type : Single Peak Component
 Retention Time : 7.211 min Search Window: 21.24 s, 0.00 %
 Reference Component:
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : TFT
 Value 1: 450.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
TFT/BFB 1	150.0000	60810.00	13396.00	-----	-----	1
TFT/BFB 2	225.0000	88920.00	19043.77	-----	-----	1
TFT/BFB 3	450.0000	186680.00	40411.27	-----	-----	1
TFT/BFB 4	675.0000	272485.00	58594.38	-----	-----	1
TFT/BFB 5	950.0000	375041.00	79749.76	-----	-----	1

Average Calibration Factor = 402.781185 (%RSD = 2.06)

TOLUENE

Component Type : Single Peak Component
 Retention Time : 9.297 min Search Window: 23.93 s, 0.00 %
 Reference Component: TRIFLUOROTOLUENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : TOLUENE
 Value 1: 100.000000

Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	2655.00	547.98	-----	-----	1
BTXE 2	25.0000	25712.86	5432.67	-----	-----	1
BTXE 3	100.0000	115725.00	26011.80	-----	-----	1
BTXE 4	500.0000	610720.00	133434.49	-----	-----	1
BTXE 5	1000.0000	1153760.00	247918.73	-----	-----	1

Average Calibration Factor = 1124.592857 (%RSD = 6.95)

ETHYLBENZENE

Component Type : Single Peak Component
 Retention Time : 13.112 min Search Window: 26.30 s, 0.00 %
 Reference Component: BROMOFLUOROBENZENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)

User Values:

Label : ETHYLBENZENE
 Value 1: 100.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	2030.00	432.13	-----	-----	1
BTXE 2	25.0000	21150.00	4541.22	-----	-----	1
BTXE 3	100.0000	103010.00	22270.47	-----	-----	1
BTXE 4	500.0000	540060.00	114681.14	-----	-----	1
BTXE 5	1000.0000	1044160.00	217712.54	-----	-----	1

Average Calibration Factor = 962.476000 (%RSD = 12.86)

m,p-XYLENE

Component Type : Single Peak Component
 Retention Time : 13.493 min Search Window: 26.46 s, 0.00 %
 Reference Component: BROMOFLUOROBENZENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)

User Values:

Label : m,p-XYLENE
 Value 1: 100.000000
 Value 2: 200.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	5.0000	5010.00	789.11	-----	-----	1
BTXE 2	50.0000	50895.00	8324.02	-----	-----	1
BTXE 3	200.0000	241135.00	39253.41	-----	-----	1
BTXE 4	1000.0000	1224755.00	197193.70	-----	-----	1
BTXE 5	2000.0000	2345790.00	378270.15	-----	-----	1

Average Calibration Factor = 1124.645000 (%RSD = 9.47)

o-XYLENE

Component Type : Single Peak Component
 Retention Time : 14.402 min Search Window: 26.84 s, 0.00 %
 Reference Component: BROMOFLUOROBENZENE
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : o-XYLENE
 Value 1: 100.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
BTXE 1	2.5000	1950.00	398.34	-----	-----	1
BTXE 2	25.0000	20250.00	4157.87	-----	-----	1
BTXE 3	100.0000	95870.00	20372.71	-----	-----	1
BTXE 4	500.0000	504270.00	105961.56	-----	-----	1
BTXE 5	1000.0000	980030.00	204373.20	-----	-----	1

Average Calibration Factor = 907.454000 (%RSD = 11.54)

BROMOFLUOROBENZENE

Component Type : Single Peak Component
 Retention Time : 15.362 min Search Window: 26.88 s, 0.00 %
 Reference Component:
 Find peak closest to expected RT in window
 Use Average Calibration Factor (Area / Amount)
 User Values:

Label : BFB
 Value 1: 450.000000
 Value 2: 0.000000
 Value 3: 0.000000
 Value 4: 0.000000
 Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
TFT/BFB 1	150.0000	123050.00	23776.84	-----	-----	1
TFT/BFB 2	225.0000	165460.00	31453.91	-----	-----	1
TFT/BFB 3	450.0000	338380.00	65437.06	-----	-----	1
TFT/BFB 4	675.0000	502945.00	97909.35	-----	-----	1
TFT/BFB 5	950.0000	685880.00	133774.22	-----	-----	1

Average Calibration Factor = 754.949864 (%RSD = 5.07)

Calibration Replicate Lists:

Component: MTBE

Level : MTBE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
3740.00	519.72	10.0000	-----	-----	6/2/99 12:48 PM	1492021P

Level : MTBE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
7244.00	1270.80	25.0000	-----	-----	6/2/99 12:48 PM	1492022.

Level : MTBE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
------	--------	-------------	---------------	-------------	-----------	------

Level : MTBE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
141872.16	27280.55	500.0000	-----	-----	6/2/99 12:48 PM	1492024.

Level : MTBE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
281687.99	54450.49	1000.0000	-----	-----	6/2/99 12:48 PM	1492025P

Component: BENZENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2795.00	564.35	2.5000	-----	-----	6/1/99 03:19 PM	1492020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
26027.65	6030.43	25.0000	-----	-----	6/1/99 03:19 PM	1492022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
125600.00	28964.71	100.0000	-----	-----	6/1/99 03:19 PM	1492023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
657170.00	144232.27	500.0000	-----	-----	6/1/99 03:19 PM	1492024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1197300.00	259598.78	1000.0000	-----	-----	6/1/99 03:19 PM	1492025.

Component: TRIFLUOROTOLUENE

Level : TFT/BFB 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
60810.00	13396.00	150.0000	-----	-----	6/1/99 03:19 PM	1522002.

Level : TFT/BFB 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
88920.00	19043.77	225.0000	-----	-----	6/1/99 03:19 PM	1522003.

Level : TFT/BFB 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
186680.00	40411.27	450.0000	-----	-----	6/1/99 03:19 PM	1522004.

Level : TFT/BFB 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
272485.00	58594.38	675.0000	-----	-----	6/1/99 03:19 PM	152Z005.

Level : TFT/BFB 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
375041.00	79749.76	950.0000	-----	-----	6/1/99 03:19 PM	152Z006.

Component: TOLUENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2655.00	547.98	2.5000	-----	-----	6/1/99 03:19 PM	149Z020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
25712.86	5432.67	25.0000	-----	-----	6/1/99 03:19 PM	149Z022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
115725.00	26011.80	100.0000	-----	-----	6/1/99 03:19 PM	149Z023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
610720.00	133434.49	500.0000	-----	-----	6/1/99 03:19 PM	149Z024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1153760.00	247918.73	1000.0000	-----	-----	6/1/99 03:19 PM	149Z025.

Component: ETHYLBENZENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2030.00	432.13	2.5000	-----	-----	6/1/99 03:19 PM	149Z020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
21150.00	4541.22	25.0000	-----	-----	6/1/99 03:19 PM	149Z022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
103010.00	22270.47	100.0000	-----	-----	6/1/99 03:19 PM	149Z023.

Level : BTXE 4

540060.00 114681.14 500.0000 ----- 6/1/99 03:19 PM 1492024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1044160.00	217712.54	1000.0000	-----	-----	6/1/99 03:19 PM	1492025.

Component: m,p-XYLENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
5010.00	789.11	5.0000	-----	-----	6/1/99 03:19 PM	1492020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
50895.00	8324.02	50.0000	-----	-----	6/1/99 03:19 PM	1492022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
241135.00	39253.41	200.0000	-----	-----	6/1/99 03:19 PM	1492023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1224755.00	197193.70	1000.0000	-----	-----	6/1/99 03:19 PM	1492024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
2345790.00	378270.15	2000.0000	-----	-----	6/1/99 03:19 PM	1492025.

Component: o-XYLENE

Level : BTXE 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
1950.00	398.34	2.5000	-----	-----	6/1/99 03:19 PM	1492020.

Level : BTXE 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
20250.00	4157.87	25.0000	-----	-----	6/1/99 03:19 PM	1492022.

Level : BTXE 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
95870.00	20372.71	100.0000	-----	-----	6/1/99 03:19 PM	1492023.

Level : BTXE 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
504270.00	105961.56	500.0000	-----	-----	6/1/99 03:19 PM	1492024.

Level : BTXE 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
980030.00	204373.20	1000.0000	-----	-----	6/1/99 03:19 PM	1492025.

Component: BROMOFLUOROBENZENE

Level : TFT/BFB 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
123050.00	23776.84	150.0000	-----	-----	6/1/99 03:19 PM	1522002.

Level : TFT/BFB 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
165460.00	31453.91	225.0000	-----	-----	6/1/99 03:19 PM	1522003.

Level : TFT/BFB 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
338380.00	65437.06	450.0000	-----	-----	6/1/99 03:19 PM	1522004.

Level : TFT/BFB 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
502945.00	97909.35	675.0000	-----	-----	6/1/99 03:19 PM	1522005.

Level : TFT/BFB 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time	File
685880.00	133774.22	950.0000	-----	-----	6/1/99 03:19 PM	1522006.

**TVH CALIBRATION VERIFICATION SUMMARY
C7 - C12**

Instrument ID: GC19 Matrix : Water
 Sequence ID: Jun25 Batch Number: 48938
 ICAL Date: 1-Jun-99 LIMS STANDARD ID: 99WS7570

ANALYTE	FILENAME	DATE ANALYZED	CALC AMOUNT ug/L	NOM AMOUNT ug/L	%D	CCV STAT	TFT REC. %	BFB REC. %	SURR. STATUS
GASOLINE	176X001	25-Jun-99	1828.86	2000	9	PASS	109	123	PASS
GASOLINE	176X014	25-Jun-99	2032.46	2000	2	PASS	101	119	PASS

QC LIMITS: CCV = %D of amounts must be less than or equal to 15%

Surrogate Recovery Limits: TFT = 53 - 150%, BFB = 53 - 149%

NOTE :

BTXE CALIBRATION VERIFICATION SUMMARY

Instrument ID: GC19 Matrix : Water
 Sequence ID: Jun25 Batch Number: 48938
 ICAL Date: 1-Jun-99 LIMS STANDARD ID: 99WS7648

ANALYTE	NOM	CALC	%D	CCV	FILENAME:		
	AMOUNT	AMOUNT		STAT	176Y002		
	ug/L	ug/L			INJECTION DATE:		
MTBE	20.00	17.05	15	PASS	Jun25		
BENZENE	20.00	18.38	8	PASS			
TOLUENE	20.00	18.22	9	PASS	TFT	BFB	SURR
ETHYLBENZENE	20.00	18.13	9	PASS	REC.	REC.	STAT
m,p-XYLENE	40.00	37.32	7	PASS	%	%	
o-XYLENE	20.00	18.13	9	PASS	94	96	PASS

ANALYTE	NOM	CALC	%D	CCV	FILENAME:		
	AMOUNT	AMOUNT		STAT	176Y015		
	ug/L	ug/L			INJECTION DATE:		
MTBE	20.00	19.37	3	PASS	Jun25		
BENZENE	20.00	19.89	1	PASS			
TOLUENE	20.00	19.99	0	PASS	TFT	BFB	SURR
ETHYLBENZENE	20.00	19.78	1	PASS	REC.	REC.	STAT
m,p-XYLENE	40.00	40.68	2	PASS	%	%	
o-XYLENE	20.00	19.96	0	PASS	90	94	PASS

ANALYTE	NOM	CALC	%D	CCV	FILENAME:		
	AMOUNT	AMOUNT		STAT	176Y022		
	ug/L	ug/L			INJECTION DATE:		
MTBE	20.00	18.14	9	PASS	Jun26		
BENZENE	20.00	19.41	3	PASS			
TOLUENE	20.00	19.34	3	PASS	TFT	BFB	SURR
ETHYLBENZENE	20.00	19.03	5	PASS	REC.	REC.	STAT
m,p-XYLENE	40.00	38.51	4	PASS	%	%	
o-XYLENE	20.00	18.91	5	PASS	73	77	PASS

QC LIMITS: %D must be equal to or less than 15
 Surrogate Recovery Limits: TFT = 51 - 143%, BFB = 37 146%

**TOTAL VOLATILE HYDROCARBON CALIBRATION VERIFICATION SUMMARY
C7-C12**

Instrument ID: GC05

Matrix : Water

Sequence ID: Jun28

Batch Number: 48990

ICAL Date: 2-Jun-99

LIMS STANDARD ID: 99WS7570

ANALYTE	FILENAME	DATE ANALYZED	CALC AMOUNT ug/L	NOM AMOUNT ug/L	%D	CCV STAT	TFT REC. %	BFB REC. %	SURR. STATUS
GASOLINE	179G003	28-Jun-99	1744.82	2000	13	PASS	82	105	PASS
GASOLINE	179G017	29-Jun-99	1701.28	2000	15	PASS	116	148	PASS
GASOLINE	179G031	29-Jun-99	2012.85	2000	1	PASS	133	114	PASS
GASOLINE	179G040	29-Jun-99	2150.19	2000	8	PASS	138	119	PASS

QC LIMITS: CCV = %D of amounts must be less than or equal to 15%

Surrogate Recovery Limits = TFT 53 - 150%

BFB 53 - 149%

COMMENTS: _____

BTXE CALIBRATION VERIFICATION SUMMARY

Instrument ID: GC19 Matrix: Water
 Sequence ID: Jun30 Batch Number: 49025
 ICAL Date: 1-Jun-99 LIMS STANDARD ID: 99WS7648

ANALYTE	NOM	CALC	%D	CCV	FILENAME:		
	AMOUNT	AMOUNT		STAT	181Y002		
	ug/L	ug/L			INJECTION DATE:		
MTBE	20.00	19.21	4	PASS	Jun30		
BENZENE	20.00	20.58	3	PASS			
TOLUENE	20.00	21.11	6	PASS	TFT	BFB	SURR
ETHYLBENZENE	20.00	20.72	4	PASS	REC.	REC.	STAT
m,p-XYLENE	40.00	42.90	7	PASS	%	%	
o-XYLENE	20.00	20.98	5	PASS	119	122	PASS

ANALYTE	NOM	CALC	%D	CCV	FILENAME:		
	AMOUNT	AMOUNT		STAT	181Y014		
	ug/L	ug/L			INJECTION DATE:		
MTBE	20.00	18.49	8	PASS	Jun30		
BENZENE	20.00	20.57	3	PASS			
TOLUENE	20.00	20.94	5	PASS	TFT	BFB	SURR
ETHYLBENZENE	20.00	20.67	3	PASS	REC.	REC.	STAT
m,p-XYLENE	40.00	42.47	6	PASS	%	%	
o-XYLENE	20.00	20.78	4	PASS	110	116	PASS

ANALYTE	NOM	CALC	%D	CCV	FILENAME:		
	AMOUNT	AMOUNT		STAT	181Y025		
	ug/L	ug/L			INJECTION DATE:		
MTBE	20.00	20.23	1	PASS	Jul01		
BENZENE	20.00	21.36	7	PASS			
TOLUENE	20.00	21.71	9	PASS	TFT	BFB	SURR
ETHYLBENZENE	20.00	21.25	6	PASS	REC.	REC.	STAT
m,p-XYLENE	40.00	43.41	9	PASS	%	%	
o-XYLENE	20.00	21.52	8	PASS	117	121	PASS

QC LIMITS: %D must be equal to or less than 15
 Surrogate Recovery Limits: TFT = 51 - 143%, BFB = 37 - 146%

Turbochrom Sequence File : G:\GC19\TVHBTXE\JUN25.SEQ
 Created by : TEW on : 6/25/99 12:41 PM
 Edited by : TEW on : 6/25/99 03:49 PM
 Description : JULIAN DATE OF 176XY

Number of Times Edited : 1

Sequence File Header Information:

Number of Rows : 38
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Study Name	Sample Descriptions	Sample Amount	ISTD Amount	Sample Volume	Channel A Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample	CCV/LCS, QC01136	GAS	B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	CCV, 99WS7648, 48	MBTXE	B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	LCS, QC01137, 99W	MBTXE	B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	MB, QC01138, 4893		B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	140119-002, 4893		B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	140119-003, 4893		B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	140119-004, 4893		B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	140119-005, 4893		B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	140119-007, 4893		B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	IB		B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	MSS, 140119-006,		B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	MS, QC01139, 99WS	MBTXE	B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	MSD, QC01140, 99W	MBTXE	B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	CCV, 99WS7570, 48	GAS	B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	CCV, 99WS7648, 48	MBTXE	B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	140119-001, 4893		B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	140039-005, 4893		B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	140039-008, 4893		B# 48938	W	5.000	1.000	1.000	10.000	1.000	1.000	0.000	100.000
19	Sample	IB		B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	140039-004, 4893		B# 48938	W	5.000	1.000	1.000	10.000	1.000	1.000	0.000	100.000
21	Sample	IB		B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	CCV, 99WS7648, 48	MBTXE	B# 48938	W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample					5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Row	Site	Rack	Vial	Inst	Method	Process	Calib	Report	Raw	Result	Baseline	Modified	Raw File	Rpt	Name	Update	RT	Dev
1	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X001	176X001	176X001	-	-	-	-	-	-	-	LPT1:
2	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X002	176X002	176X002	-	-	-	-	-	-	-	LPT1:
3	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X003	176X003	176X003	-	-	-	-	-	-	-	LPT1:
4	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X004	176X004	176X004	-	-	-	-	-	-	-	LPT1:
5	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X005	176X005	176X005	-	-	-	-	-	-	-	LPT1:
6	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X006	176X006	176X006	-	-	-	-	-	-	-	LPT1:
7	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X007	176X007	176X007	-	-	-	-	-	-	-	LPT1:
8	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X008	176X008	176X008	-	-	-	-	-	-	-	LPT1:
9	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X009	176X009	176X009	-	-	-	-	-	-	-	LPT1:
10	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X010	176X010	176X010	-	-	-	-	-	-	-	LPT1:
11	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X011	176X011	176X011	-	-	-	-	-	-	-	LPT1:
12	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X012	176X012	176X012	-	-	-	-	-	-	-	LPT1:
13	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X013	176X013	176X013	-	-	-	-	-	-	-	LPT1:
14	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X014	176X014	176X014	-	-	-	-	-	-	-	LPT1:
15	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X015	176X015	176X015	-	-	-	-	-	-	-	LPT1:
16	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X016	176X016	176X016	-	-	-	-	-	-	-	LPT1:
17	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X017	176X017	176X017	-	-	-	-	-	-	-	LPT1:
18	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X018	176X018	176X018	-	-	-	-	-	-	-	LPT1:
19	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X019	176X019	176X019	-	-	-	-	-	-	-	LPT1:
20	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X020	176X020	176X020	-	-	-	-	-	-	-	LPT1:
21	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X021	176X021	176X021	-	-	-	-	-	-	-	LPT1:
22	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X022	176X022	176X022	-	-	-	-	-	-	-	LPT1:
23	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X023	176X023	176X023	-	-	-	-	-	-	-	LPT1:
24	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X024	176X024	176X024	-	-	-	-	-	-	-	LPT1:
25	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X025	176X025	176X025	-	-	-	-	-	-	-	LPT1:
26	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X026	176X026	176X026	-	-	-	-	-	-	-	LPT1:
27	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X027	176X027	176X027	-	-	-	-	-	-	-	LPT1:
28	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X028	176X028	176X028	-	-	-	-	-	-	-	LPT1:
29	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X029	176X029	176X029	-	-	-	-	-	-	-	LPT1:
30	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X030	176X030	176X030	-	-	-	-	-	-	-	LPT1:
31	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X031	176X031	176X031	-	-	-	-	-	-	-	LPT1:
32	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X032	176X032	176X032	-	-	-	-	-	-	-	LPT1:
33	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X033	176X033	176X033	-	-	-	-	-	-	-	LPT1:
34	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X034	176X034	176X034	-	-	-	-	-	-	-	LPT1:
35	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X035	176X035	176X035	-	-	-	-	-	-	-	LPT1:
36	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X036	176X036	176X036	-	-	-	-	-	-	-	LPT1:
37	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X037	176X037	176X037	-	-	-	-	-	-	-	LPT1:
38	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_W	176X038	176X038	176X038	-	-	-	-	-	-	-	LPT1:

Turbochrom Sequence File : G:\GC19\TVHBTXE\JUN25.SEQ
 Created by : TEW on : 6/25/99 12:41 PM
 Edited by : TEW on : 6/25/99 03:49 PM
 Description : JULIAN DATE OF 176XY

Number of Times Edited : 1

Sequence File Header Information:

Number of Rows : 38
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample	CCV/LCS, QC01136	GAS	B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	CCV, 99WS7648, 48	MBTXE	B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	LCS, QC01137, 99W	MBTXE	B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	MB, QC01138, 4893		B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	140119-002, 4893		B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	140119-003, 4893		B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	140119-004, 4893		B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	140119-005, 4893		B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	140119-007, 4893		B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	IB		B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	MSS, 140119-006,		B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	MS, QC01139, 99WS	MBTXE	B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	MSD, QC01140, 99W	MBTXE	B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	CCV, 99WS7570, 48	GAS	B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	CCV, 99WS7648, 48	MBTXE	B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	140119-001, 4893		B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	140039-005, 4893		B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	140039-008, 4893		B# 48938 W	5.000	1.000	1.000	10.000	1.000	1.000	0.000	100.000
19	Sample	IB		B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	140039-004, 4893		B# 48938 W	5.000	1.000	1.000	10.000	1.000	1.000	0.000	100.000
21	Sample	IB		B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	CCV, 99WS7648, 48	MBTXE	B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

	Method	Method	Method	Format	File	File	File	Raw File	Rpt Name	RT	Dev		
1	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y001	176Y001	176Y001	-	-	LPT1:
2	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y002	176Y002	176Y002	-	-	LPT1:
3	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y003	176Y003	176Y003	-	-	LPT1:
4	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y004	176Y004	176Y004	-	-	LPT1:
5	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y005	176Y005	176Y005	-	-	LPT1:
6	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y006	176Y006	176Y006	-	-	LPT1:
7	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y007	176Y007	176Y007	-	-	LPT1:
8	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y008	176Y008	176Y008	-	-	LPT1:
9	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y009	176Y009	176Y009	-	-	LPT1:
10	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y010	176Y010	176Y010	-	-	LPT1:
11	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y011	176Y011	176Y011	-	-	LPT1:
12	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y012	176Y012	176Y012	-	-	LPT1:
13	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y013	176Y013	176Y013	-	-	LPT1:
14	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y014	176Y014	176Y014	-	-	LPT1:
15	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y015	176Y015	176Y015	-	-	LPT1:
16	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y016	176Y016	176Y016	-	-	LPT1:
17	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y017	176Y017	176Y017	-	-	LPT1:
18	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y018	176Y018	176Y018	-	-	LPT1:
19	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y019	176Y019	176Y019	-	-	LPT1:
20	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y020	176Y020	176Y020	-	-	LPT1:
21	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y021	176Y021	176Y021	-	-	LPT1:
22	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y022	176Y022	176Y022	-	-	LPT1:
23	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y023	176Y023	176Y023	-	-	LPT1:
24	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y024	176Y024	176Y024	-	-	LPT1:
25	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y025	176Y025	176Y025	-	-	LPT1:
26	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y026	176Y026	176Y026	-	-	LPT1:
27	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y027	176Y027	176Y027	-	-	LPT1:
28	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y028	176Y028	176Y028	-	-	LPT1:
29	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y029	176Y029	176Y029	-	-	LPT1:
30	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y030	176Y030	176Y030	-	-	LPT1:
31	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y031	176Y031	176Y031	-	-	LPT1:
32	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y032	176Y032	176Y032	-	-	LPT1:
33	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y033	176Y033	176Y033	-	-	LPT1:
34	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y034	176Y034	176Y034	-	-	LPT1:
35	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y035	176Y035	176Y035	-	-	LPT1:
36	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y036	176Y036	176Y036	-	-	LPT1:
37	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y037	176Y037	176Y037	-	-	LPT1:
38	-	1	1	TVHBTXE	Y_BTKEI	Y_060199	BTXE_W	176Y038	176Y038	176Y038	-	-	LPT1:

Turbchrom Sequence File : G:\GC19\BTXE\JUN25.SEQ
 Created by : TEW on : 6/25/99 12:42 PM
 Edited by : TEW on : 6/25/99 03:52 PM
 Description : JULIAN DATE OF 176Z

Number of Times Edited : 1

Sequence File Header Information:

Number of Rows : 38
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel A Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample			B# 48938 W	5.000	1.000	1.000	10.000	1.000	1.000	0.000	100.000
19	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample			B# 48938 W	5.000	1.000	1.000	10.000	1.000	1.000	0.000	100.000
21	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample			B# 48938 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Row	Site	Back	Vial	Inst	Method	Method	Method	Format	Raw File	Result File	Baseline File	Modified Raw File	Rpt	Name	Update RT	Out Dev
1	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z001	176Z001		176Z001	-	-	-	LPT1:
2	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z002	176Z002		176Z002	-	-	-	LPT1:
3	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z003	176Z003		176Z003	-	-	-	LPT1:
4	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z004	176Z004		176Z004	-	-	-	LPT1:
5	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z005	176Z005		176Z005	-	-	-	LPT1:
6	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z006	176Z006		176Z006	-	-	-	LPT1:
7	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z007	176Z007		176Z007	-	-	-	LPT1:
8	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z008	176Z008		176Z008	-	-	-	LPT1:
9	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z009	176Z009		176Z009	-	-	-	LPT1:
10	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z010	176Z010		176Z010	-	-	-	LPT1:
11	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z011	176Z011		176Z011	-	-	-	LPT1:
12	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z012	176Z012		176Z012	-	-	-	LPT1:
13	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z013	176Z013		176Z013	-	-	-	LPT1:
14	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z014	176Z014		176Z014	-	-	-	LPT1:
15	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z015	176Z015		176Z015	-	-	-	LPT1:
16	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z016	176Z016		176Z016	-	-	-	LPT1:
17	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z017	176Z017		176Z017	-	-	-	LPT1:
18	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z018	176Z018		176Z018	-	-	-	LPT1:
19	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z019	176Z019		176Z019	-	-	-	LPT1:
20	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z020	176Z020		176Z020	-	-	-	LPT1:
21	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z021	176Z021		176Z021	-	-	-	LPT1:
22	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z022	176Z022		176Z022	-	-	-	LPT1:
23	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z023	176Z023		176Z023	-	-	-	LPT1:
24	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z024	176Z024		176Z024	-	-	-	LPT1:
25	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z025	176Z025		176Z025	-	-	-	LPT1:
26	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z026	176Z026		176Z026	-	-	-	LPT1:
27	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z027	176Z027		176Z027	-	-	-	LPT1:
28	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z028	176Z028		176Z028	-	-	-	LPT1:
29	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z029	176Z029		176Z029	-	-	-	LPT1:
30	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z030	176Z030		176Z030	-	-	-	LPT1:
31	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z031	176Z031		176Z031	-	-	-	LPT1:
32	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z032	176Z032		176Z032	-	-	-	LPT1:
33	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z033	176Z033		176Z033	-	-	-	LPT1:
34	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z034	176Z034		176Z034	-	-	-	LPT1:
35	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z035	176Z035		176Z035	-	-	-	LPT1:
36	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z036	176Z036		176Z036	-	-	-	LPT1:
37	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z037	176Z037		176Z037	-	-	-	LPT1:
38	-	1	1	1	Z_BTXE	Z_BTXEI	Z_060199	WATER	176Z038	176Z038		176Z038	-	-	-	LPT1:

Analyst: TEW Date: 6-28-99 Sequence Name: JUN 25

Batch No.: 48938 File Prefix: 176XYZ

Continued from Page: —

File No.	Std. No.	Sample Name	Wt/Vol	Vial pH	Comment	Lims No.	
						No.	Std. Name
1	2	CCV/LCS, QC 01136	5mL		PASS 625-99 1258	1	99WS 7604
2	3	CCV			↓		DAILY SS 450 ppm
3	4	LCS, QC 01137			↓	2	99WS 7570
4		MB, QC 01138			ND		GRAS 2000 ppm
5		140119-002		B2		3	99WS 7648
6		-003		B2			MBTAE 20 ppm
7		-004		B2	RR TVH e. lx	4	99WS 7710
8		-005		B2	Benzene = D.R. RR e. lx		MBTAE 2 nd source 20 ppm
9		↓ -007		B5			
10		IB			ND		
11		MS, 140119-006		B2	Benzene = D.R. RR e. lx		
12	4	MS, QC 01139		↓	Benzene fails low due to greater than 10x spike amount hit in the MS.		
13	4	MSD, QC 01140		↓			
14	2	CCV			PASS		
15	3	CCV			↓		
16		140119-001		A2			
17		140039-005	↓	D1			
18		140039-008	10X	C1			
19		IB	5mL		single peak carryover hit for TVH		
20		140039-004	10X	C1			
21		IB	5mL		single peak carryover hit for TVH		
22	3	CCV	↓		PASS 626-99 0322		
6-28-99							
						ical on page(s)	
						5+6	
						of BK 1086	
All runs rec'd std#1							

Continued on Page: 7
Ang & G. White
Signed

6-28-99
Date

Read and Understood by Gabe Humble
Signed 6/28/99
Date

Chrom Sequence File : G:\GC05\TVHBTXE\JUN28.SEQ
 Created by : AMP on : 6/28/99 04:50 PM
 Edited by : GP on : 6/29/99 03:51 PM
 Description : JULIAN DATE OF 179GH

Number of Times Edited : 7

Sequence File Header Information:
 Number of Rows : 44
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel A	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend
1	Sample	ccv/lcs,qc01362	179gh, gas	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	ccv,99ws7648,48	mbtex	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	CCV\LCS,QC01362	GAS	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
4	Sample	CCV,99WS7620,48	JP4	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
5	Sample	CCV,99WS7620,48	MBTEX	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	MB,QC01361,4899		B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	BS,QC01363,99WS	MBTEX	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	BSD,QC01364,99W	MBTEX	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
9	Sample	140150-001C,489	PH=4	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	140150-002C,489	PH=6	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	MSS,140119-004C	PH<2	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	RD,140119-005D,	2X, PH<2	B# 48990 W	5.000	1.000	1.000	2.000	1.000	1.000	0.000
13	Sample	RD,140119-006D,	2X, PH<2	B# 48990 W	5.000	1.000	1.000	2.000	1.000	1.000	0.000
14	Sample	RD,MSS,140127-0	2X, PH<2	B# 48990 W	5.000	1.000	1.000	10.000	1.000	1.000	0.000
	Sample	D,140164-001B,4	10X, PH<2	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	IB,48990		B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
17	Sample	CCV,99WS7570,48	GAS	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
18	Sample	CCV,99WS7620,48	JP4	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	CCV,99WS7648,48	MBTEX	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	MS,QC01367,99WS	GAS	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
21	Sample	MSD,QC01368,99W	GAS	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
22	Sample	RD,MS,QC01245,9	GAS, 2X	B# 48990 W	5.000	1.000	1.000	2.000	1.000	1.000	0.000
	Sample	RD,MSD,QC01246,	GAS, 2X	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	140148-001A,489	PH<2	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	140148-003A,489	PH<2	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
26	Sample	r,140164-001b,4	PH<2	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
27	Sample	140148-002A,489	PH<2	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	IB,48990		B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	D,140148-005A,4	PH<2, 50X	B# 48990 W	5.000	1.000	1.000	50.000	1.000	1.000	0.000
30	Sample	D,140148-006A,4	PH<2, 25X	B# 48990 W	5.000	1.000	1.000	25.000	1.000	1.000	0.000
31	Sample	CCV,99WS7570,48	GAS	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	CCV,99WS7620,48	JP4	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
	Sample	CCV,99WS7648,48	MBTEX	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
34	Sample	r,bsd,qc01364,9	mbtex	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
35	Sample	r,ms,qc01367,99	gas	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
36	Sample	r,msd,qc01368,9	gas	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
37	Sample	140148-004a,489		B# 48990 W	5.000	1.000	1.000	10.000	1.000	1.000	0.000
38	Sample	rd,140148-002c,	10x	B# 48990 W	5.000	1.000	1.000	5.000	1.000	1.000	0.000
39	Sample	rd,140148-001c,	5x	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
40	Sample	ccv,99ws7570,48	gas	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
41	Sample	ccv,99ws7648,48	mbtex	B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
42	Sample			B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
43	Sample			B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000
44	Sample			B# 48990 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Raw File	Raw File	Rpt Name	RT
1	-	1	1	TVHBTXE	G_060299	G_060299	TVH_W	179g001	179g001	179g001	-	-
2	-	1	1	TVHBTXE	G_060299	G_060299	TVH_W	179g002	179g002	179g002	-	-
3	-	1	2	TVHBTXE	G_060299	G_060299	TVH_W	179g003	179g003	179g003	-	-
4	-	1	3	TVHBTXE	G_060299	G_060299	TVH_W	179g004	179g004	179g004	-	-
5	-	1	3	TVHBTXE	G_060299	G_060299	TVH_W	179g005	179g005	179g005	-	-
6	-	1	3	TVHBTXE	G_060299	G_060299	TVH_W	179g006	179g006	179g006	-	-
7	-	1	4	TVHBTXE	G_060299	G_060299	TVH_W	179g007	179g007	179g007	-	-
8	-	1	5	TVHBTXE	G_060299	G_060299	TVH_W	179g008	179g008	179g008	-	-
9	-	1	6	TVHBTXE	G_060299	G_060299	TVH_W	179g009	179g009	179g009	-	-
10	-	1	8	TVHBTXE	G_060299	G_060299	TVH_W	179g010	179g010	179g010	-	-
11	-	1	9	TVHBTXE	G_060299	G_060299	TVH_W	179g011	179g011	179g011	-	-
12	-	1	10	TVHBTXE	G_060299	G_060299	TVH_W	179g012	179g012	179g012	-	-
13	-	1	11	TVHBTXE	G_060299	G_060299	TVH_W	179g013	179g013	179g013	-	-
14	-	1	11	TVHBTXE	G_060299	G_060299	TVH_W	179g014	179g014	179g014	-	-
15	-	1	12	TVHBTXE	G_060299	G_060299	TVH_W	179g015	179g015	179g015	-	-
16	-	1	12	TVHBTXE	G_060299	G_060299	TVH_W	179g016	179g016	179g016	-	-
17	-	1	12	TVHBTXE	G_060299	G_060299	TVH_W	179g017	179g017	179g017	-	-
18	-	1	13	TVHBTXE	G_060299	G_060299	TVH_W	179g018	179g018	179g018	-	-
19	-	1	13	TVHBTXE	G_060299	G_060299	TVH_W	179g019	179g019	179g019	-	-
20	-	1	14	TVHBTXE	G_060299	G_060299	TVH_W	179g020	179g020	179g020	-	-
21	-	1	15	TVHBTXE	G_060299	G_060299	TVH_W	179g021	179g021	179g021	-	-
22	-	1	15	TVHBTXE	G_060299	G_060299	TVH_W	179g022	179g022	179g022	-	-
23	-	1	16	TVHBTXE	G_060299	G_060299	TVH_W	179g023	179g023	179g023	-	-
24	-	1	17	TVHBTXE	G_060299	G_060299	TVH_W	179g024	179g024	179g024	-	-
25	-	1	18	TVHBTXE	G_060299	G_060299	TVH_W	179g025	179g025	179g025	-	-
26	-	1	19	TVHBTXE	G_060299	G_060299	TVH_W	179g026	179g026	179g026	-	-
27	-	1	20	TVHBTXE	G_060299	G_060299	TVH_W	179g027	179g027	179g027	-	-
28	-	1	21	TVHBTXE	G_060299	G_060299	TVH_W	179g028	179g028	179g028	-	-
29	-	1	22	TVHBTXE	G_060299	G_060299	TVH_W	179g029	179g029	179g029	-	-
30	-	1	23	TVHBTXE	G_060299	G_060299	TVH_W	179g030	179g030	179g030	-	-
31	-	1	24	TVHBTXE	G_060299	G_060299	TVH_W	179g031	179g031	179g031	-	-
32	-	1	25	TVHBTXE	G_060299	G_060299	TVH_W	179g032	179g032	179g032	-	-
33	-	1	26	TVHBTXE	G_060299	G_060299	TVH_W	179g033	179g033	179g033	-	-
34	-	1	7	TVHBTXE	G_060299	G_060299	TVH_W	179g034	179g034	179g034	-	-
35	-	1	27	TVHBTXE	G_060299	G_060299	TVH_W	179g035	179g035	179g035	-	-
36	-	1	28	TVHBTXE	G_060299	G_060299	TVH_W	179g036	179g036	179g036	-	-
37	-	1	29	TVHBTXE	G_060299	G_060299	TVH_W	179g037	179g037	179g037	-	-
38	-	1	30	TVHBTXE	G_060299	G_060299	TVH_W	179g038	179g038	179g038	-	-
39	-	1	31	TVHBTXE	G_060299	G_060299	TVH_W	179g039	179g039	179g039	-	-
40	-	1	32	TVHBTXE	G_060299	G_060299	TVH_W	179g040	179g040	179g040	-	-
41	-	1	33	TVHBTXE	G_060299	G_060299	TVH_W	179g041	179g041	179g041	-	-
42	-	1	34	TVHBTXE	G_060299	G_060299	TVH_W	179g042	179g042	179g042	-	-
43	-	1	35	TVHBTXE	G_060299	G_060299	TVH_W	179g043	179g043	179g043	-	-
44	-	1	36	TVHBTXE	G_060299	G_060299	TVH_W	179g044	179g044	179g044	-	-

Analyst: GP Date: 6/30/99

Sequence Name: Jun 28

Batch No.: 48990

File Prefix: 179 1796HE

Continued from Page:

File No.	Std. No.	Sample Name	Wt/vol	vial pH	Comment	Std. No.	Lims No. Std. Name
1	2	CCV / MS QC 01362	5ml		Surr. fails 6/23/99 17:11	1	99WS 7604
2	3	CCV			pass => use for MTBE Ipt.		Daily SS 450 ppm
3	2	CCV / MS QC 01362			did not use	2	99WS 7570
4	3	CCV			fail, didn't use		Gas @ 2000 ppm
5	3	CCV			fail, didn't use		Gas @ 2000 ppm
6		MB, QC 01361				3	99WS 7648
7	4	BS, QC 01363			pass		MBTEX @ 20 ppm
8	4	BSD, QC 01364			Surr. fails => RR	4	99WS 7710
9		140150-001C		4			MBTEX ^{2nd} @ 20 ppm
10		↓ -002C		6		5	99WS 7620
11		MSS 140119-004C	↓	L2			JP4 @ 2000 ppm
12		RD, ↓ -005D	2x		RR => MTBE fails		
13		↓ ↓ -006D	2x		RR => MTBE fails		
14		RD, 140127-001B	2x		RR		
15		D, 140164-001B	10x	↓	RR @ 1x		
16	3	ID	5ml		ND		
17	3	CCV			pass		
18	5	CCV			↓, didn't use		
19	3	CCV			↓		
20	2	MS, QC 01367			Surr. fails => RR		
21	2	MSD, QC 01368			↓ ↓		
22	2	RD, MS, QC 01245	2x		RR		
23	2	RD, MSD, QC 01246	2x		RR		
24		140148-001A	5ml	L2	RR @ 5x		
25		↓ -003A					
26		C, 140164-001B					
27		140148-002A		↓	RR @ 10x		
28		ID	↓		ND		
29		D, 140148-005A	50x	L2			
30		↓ ↓ -006A	25x	↓			
31	2	CCV	5ml		pass		
32	5	CCV			↓ didn't use		
33	3	CCV			↓		
34	4	C, BSD, QC 01364			pass		
35	2	C, MS, QC 01367			↓		
36	2	C, MSD, QC 01368			↓		
37		140148-004A	↓	L2			1 cal on page(s)
38		rd, ↓ -002C	10x	↓			29-31
39		rd, ↓ -001C	5x	↓			of BK 1042
40	2	CCV	5ml		pass		
41	3	CCV	↓		↓ 6/29/99 21:34		All runs rec'd Std.#1

Continued on Page:
Gabe Swindle
 Signed

6/30/99
 Date

Read and Understood by 89
6/30/99
 Signed Date

Turbochrom Sequence File : G:\GC19\TVHBTXE\JUN30.SEQ
 Created by : TEW on : 6/30/99 09:55 AM
 Edited by : TEW on : 6/30/99 01:27 PM
 Description : JULIAN DATE OF 181XY

Number of Times Edited : 2

Sequence File Header Information:

Number of Rows : 38
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel B Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample	CCV/LCS,QC01504	GAS	B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	CCV,99WS7648,49	MBTXE	B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	LCS,QC01505,99W	MBTXE	B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	MB,QC01506,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	140119-005,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	140119-006,4902		B# 49025 W	5.000	1.000	1.000	2.000	1.000	1.000	0.000	100.000
7	Sample	140197-006,4902		B# 49025 W	5.000	1.000	1.000	2.000	1.000	1.000	0.000	100.000
8	Sample	140197-007,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	140197-008,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	MSS,140197-009,		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	MS,QC01507,99WS	MBTXE	B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	MSD,QC01508,99W	MBTXE	B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	CCV,99WS7570,49	GAS	B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	CCV,99WS7648,49	MBTXE	B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	140197-011,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	140197-010,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	140195-002,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	140172-001,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	140172-002,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	140172-003,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	140172-004,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	140172-005,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	140172-006,4902		B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	CCV,99WS7570,49	GAS	B# 49025 W	5.000	1.000	1.000	5.000	1.000	1.000	0.000	100.000
25	Sample	CCV,99WS7648,49	MBTXE	B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample				5.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Turbochrom Sequence File : G:\GC19\TVHBTXE\JUN30.SEQ
 Created by : TEW on : 6/30/99 09:55 AM
 Edited by : TEW on : 6/30/99 01:46 PM
 Description : JULIAN DATE OF 181XY

Number of Times Edited : 3

Sequence File Header Information:

Number of Rows : 38
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Sequence Process Information - Channel B				Cal Rpt	Level Name	Update RT	Out Dev
								Raw File	Result File	Baseline File	Modified Raw File				
1	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y001	181Y001		181Y001	-	-	-	LPT1:
2	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y002	181Y002		181Y002	-	-	-	LPT1:
3	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y003	181Y003		181Y003	-	-	-	LPT1:
4	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y004	181Y004		181Y004	-	-	-	LPT1:
5	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y005	181Y005		181Y005	-	-	-	LPT1:
6	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y006	181Y006		181Y006	-	-	-	LPT1:
7	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y007	181Y007		181Y007	-	-	-	LPT1:
8	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y008	181Y008		181Y008	-	-	-	LPT1:
9	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y009	181Y009		181Y009	-	-	-	LPT1:
10	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y010	181Y010		181Y010	-	-	-	LPT1:
11	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y011	181Y011		181Y011	-	-	-	LPT1:
12	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y012	181Y012		181Y012	-	-	-	LPT1:
13	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y013	181Y013		181Y013	-	-	-	LPT1:
14	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y014	181Y014		181Y014	-	-	-	LPT1:
15	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y015	181Y015		181Y015	-	-	-	LPT1:
16	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y016	181Y016		181Y016	-	-	-	LPT1:
17	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y017	181Y017		181Y017	-	-	-	LPT1:
18	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y018	181Y018		181Y018	-	-	-	LPT1:
19	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y019	181Y019		181Y019	-	-	-	LPT1:
20	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y020	181Y020		181Y020	-	-	-	LPT1:
21	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y021	181Y021		181Y021	-	-	-	LPT1:
22	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y022	181Y022		181Y022	-	-	-	LPT1:
23	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y023	181Y023		181Y023	-	-	-	LPT1:
24	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y024	181Y024		181Y024	-	-	-	LPT1:
25	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y025	181Y025		181Y025	-	-	-	LPT1:
26	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y026	181Y026		181Y026	-	-	-	LPT1:
27	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y027	181Y027		181Y027	-	-	-	LPT1:
28	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y028	181Y028		181Y028	-	-	-	LPT1:
29	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y029	181Y029		181Y029	-	-	-	LPT1:
30	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y030	181Y030		181Y030	-	-	-	LPT1:
31	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y031	181Y031		181Y031	-	-	-	LPT1:
32	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y032	181Y032		181Y032	-	-	-	LPT1:
33	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y033	181Y033		181Y033	-	-	-	LPT1:
34	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y034	181Y034		181Y034	-	-	-	LPT1:
35	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y035	181Y035		181Y035	-	-	-	LPT1:
36	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y036	181Y036		181Y036	-	-	-	LPT1:
37	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y037	181Y037		181Y037	-	-	-	LPT1:
38	-	1	1	TVHBTXE	Y_BTXEI	Y_063099	BTXE_W	181Y038	181Y038		181Y038	-	-	-	LPT1:

Turbochrom Sequence File : G:\GC19\BTXE\JUN30.SEQ
 Created by : TEW on : 6/30/99 09:56 AM
 Edited by : TEW on : 6/30/99 01:33 PM
 Description : JULIAN DATE OF 181Z

Number of Times Edited : 2

Sequence File Header Information:

Number of Rows : 38
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel A									
				Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor	
1	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample			B# 49025 W	5.000	1.000	1.000	2.000	1.000	1.000	1.000	0.000	100.000
6	Sample			B# 49025 W	5.000	1.000	1.000	2.000	1.000	1.000	1.000	0.000	100.000
7	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample			B# 49025 W	5.000	1.000	1.000	5.000	1.000	1.000	1.000	0.000	100.000
25	Sample			B# 49025 W	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample				5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Turbochrom Sequence File : G:\GC19\BTXE\JUN30.SEQ
 Created by : TEW on : 6/30/99 09:56 AM
 Edited by : TEW on : 6/30/99 01:47 PM
 Description : JULIAN DATE OF 181Z

Number of Times Edited : 3

Sequence File Header Information:

Number of Rows : 38
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z001	181Z001		181Z001	-	-	-	LPT1:
2	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z002	181Z002		181Z002	-	-	-	LPT1:
3	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z003	181Z003		181Z003	-	-	-	LPT1:
4	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z004	181Z004		181Z004	-	-	-	LPT1:
5	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z005	181Z005		181Z005	-	-	-	LPT1:
6	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z006	181Z006		181Z006	-	-	-	LPT1:
7	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z007	181Z007		181Z007	-	-	-	LPT1:
8	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z008	181Z008		181Z008	-	-	-	LPT1:
9	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z009	181Z009		181Z009	-	-	-	LPT1:
10	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z010	181Z010		181Z010	-	-	-	LPT1:
11	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z011	181Z011		181Z011	-	-	-	LPT1:
12	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z012	181Z012		181Z012	-	-	-	LPT1:
13	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z013	181Z013		181Z013	-	-	-	LPT1:
14	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z014	181Z014		181Z014	-	-	-	LPT1:
15	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z015	181Z015		181Z015	-	-	-	LPT1:
16	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z016	181Z016		181Z016	-	-	-	LPT1:
17	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z017	181Z017		181Z017	-	-	-	LPT1:
18	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z018	181Z018		181Z018	-	-	-	LPT1:
19	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z019	181Z019		181Z019	-	-	-	LPT1:
20	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z020	181Z020		181Z020	-	-	-	LPT1:
21	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z021	181Z021		181Z021	-	-	-	LPT1:
22	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z022	181Z022		181Z022	-	-	-	LPT1:
23	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z023	181Z023		181Z023	-	-	-	LPT1:
24	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z024	181Z024		181Z024	-	-	-	LPT1:
25	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z025	181Z025		181Z025	-	-	-	LPT1:
26	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z026	181Z026		181Z026	-	-	-	LPT1:
27	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z027	181Z027		181Z027	-	-	-	LPT1:
28	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z028	181Z028		181Z028	-	-	-	LPT1:
29	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z029	181Z029		181Z029	-	-	-	LPT1:
30	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z030	181Z030		181Z030	-	-	-	LPT1:
31	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z031	181Z031		181Z031	-	-	-	LPT1:
32	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z032	181Z032		181Z032	-	-	-	LPT1:
33	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z033	181Z033		181Z033	-	-	-	LPT1:
34	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z034	181Z034		181Z034	-	-	-	LPT1:
35	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z035	181Z035		181Z035	-	-	-	LPT1:
36	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z036	181Z036		181Z036	-	-	-	LPT1:
37	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z037	181Z037		181Z037	-	-	-	LPT1:
38	-	1	1	Z_BTXE	Z_BTXEI	Z_063099	WATER	181Z038	181Z038		181Z038	-	-	-	LPT1:

File No.	Std. No.	Sample Name	Wt/Vol	Vial pH	Comment	Std. No.	Lims No. Std. Name
1	2	CCV/LCS, RC01504	5mL		PASS 6-30-99 10/12	1	99WS7604
2	3	CCV					DAILY SS 450 ppm
3	4	LCS, RC01505				2	99WS7570
4		MB, RC01506			ND		GAS 2000 ppm
5		140119-005	2X	D2		3	99WS7648
6		140119-006	2X	D2			MBTXE 20 ppm
7		140197-006	5mL	C1		4	99WS7710
8		-007		C1	BFB fails high due to coelution		MBTXE 2 nd source 20 ppm
9		-008		C1			
10		↓ -009, MSS		C1	BFB fails high due to coelution		
11	9	MS, RC01507			MTBC fails low due to greater than 5% env spike amount hit in the MSS		↓
12	4	MSD, RC01508					
13	2	CCV			PASS		
14	3	CCV			↓		
15		140197-011		C1			
16		140197-010		C1	BFB fails high due to coelution		
17		140195-002		C2			
18		140172-001		A6			
19		-002		A7			
20		-003		A7			
21		-004		A6			
22		-005		A4			
23		↓ -006	5X	A6	MTBC = O.P. RR 20X		
24	2	CCV	5mL		PASS		
25	3	CCV			↓ 7-1-99 0225		
<i>[Large handwritten signature and scribbles across the bottom of the table]</i>							
							ical on page(s)
							5+6
							of BK 1X86
							All runs rec'd std #1

94

Created by : TEW on : 5/29/99 03:25 PM

Edited by : JDK on : 6/1/99 03:34 PM

Description : JULIAN DATE OF 149XY

Number of Times Edited : 2

Sequence File Header Information:

Number of Rows : 44
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Sequence Sample Descriptions - Channel A												
Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor	
1	Sample	C MARKERS	149XY	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	ICAL, 99WS7572, G	GAS 1	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	ICAL, 99WS7571, G	GAS 2	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	ICAL, 99WS7570, G	GAS 3	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	ICAL, 99WS7569, G	GAS 4	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	ICAL, 99WS7569, G	GAS 5	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	ICV, 99WS7547, GA	GAS ICV	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	ICAL, 99WS7100, J	JP4 1	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	ICAL, 99WS7098, J	JP4 2	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	ICAL, 99WS7097, J	JP4 3	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	ICAL, 99WS7096, J	JP4 4	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	ICAL, 99WS7096, J	JP4 5	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	ICV, 99WS7101, JP	JP4 ICV	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	ICAL, 99WS7310, B	BTEX 1	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	ICAL, 99WS7309, M	MTBE 1	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	ICAL, 99WS7309, M	MBTEX 2	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	ICAL, 99WS7308, M	MBTEX 3	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	ICAL, 99WS7307, M	MBTEX 4	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	ICAL, 99WS7306, M	MBTEX 5	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	ICV, 99WS7409, MB	MBTEX ICV	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Row	Site	Rack	Unit	Method	Method	Method	Format	Raw File	Result File	BaseLine File	Raw File	Rpt	Name	RT	Dev
1	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X001	149X001		149X001	-	-	-	LPT1:
2	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X002	149X002		149X002	-	-	-	LPT1:
3	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X003	149X003		149X003	-	-	-	LPT1:
4	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X004	149X004		149X004	-	-	-	LPT1:
5	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X005	149X005		149X005	-	-	-	LPT1:
6	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X006	149X006		149X006	-	-	-	LPT1:
7	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X007	149X007		149X007	-	-	-	LPT1:
8	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X008	149X008		149X008	-	-	-	LPT1:
9	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X009	149X009		149X009	-	-	-	LPT1:
10	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X010	149X010		149X010	-	-	-	LPT1:
11	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X011	149X011		149X011	-	-	-	LPT1:
12	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X012	149X012		149X012	-	-	-	LPT1:
13	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X013	149X013		149X013	-	-	-	LPT1:
14	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X014	149X014		149X014	-	-	-	LPT1:
15	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X015	149X015		149X015	-	-	-	LPT1:
16	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X016	149X016		149X016	-	-	-	LPT1:
17	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X017	149X017		149X017	-	-	-	LPT1:
18	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X018	149X018		149X018	-	-	-	LPT1:
19	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X019	149X019		149X019	-	-	-	LPT1:
20	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X020	149X020		149X020	-	-	-	LPT1:
21	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X021	149X021		149X021	-	-	-	LPT1:
22	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X022	149X022		149X022	-	-	-	LPT1:
23	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X023	149X023		149X023	-	-	-	LPT1:
24	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X024	149X024		149X024	-	-	-	LPT1:
25	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X025	149X025		149X025	-	-	-	LPT1:
26	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X026	149X026		149X026	-	-	-	LPT1:
27	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X027	149X027		149X027	-	-	-	LPT1:
28	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X028	149X028		149X028	-	-	-	LPT1:
29	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X029	149X029		149X029	-	-	-	LPT1:
30	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X030	149X030		149X030	-	-	-	LPT1:
31	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X031	149X031		149X031	-	-	-	LPT1:
32	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X032	149X032		149X032	-	-	-	LPT1:
33	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X033	149X033		149X033	-	-	-	LPT1:
34	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X034	149X034		149X034	-	-	-	LPT1:
35	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X035	149X035		149X035	-	-	-	LPT1:
36	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X036	149X036		149X036	-	-	-	LPT1:
37	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X037	149X037		149X037	-	-	-	LPT1:
38	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X038	149X038		149X038	-	-	-	LPT1:
39	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X039	149X039		149X039	-	-	-	LPT1:
40	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X040	149X040		149X040	-	-	-	LPT1:
41	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X041	149X041		149X041	-	-	-	LPT1:
42	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X042	149X042		149X042	-	-	-	LPT1:
43	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X043	149X043		149X043	-	-	-	LPT1:
44	-	1	1	TVHBTXE	X_TVH	X_060199	TVH_S	149X044	149X044		149X044	-	-	-	LPT1:

Created by : TEW on : 5/29/99 03:25 PM

Edited by : JDK on : 6/1/99 03:34 PM

Description : JULIAN DATE OF 149XY

Number of Times Edited : 2

Sequence File Header Information:

Number of Rows : 44
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample	C MARKERS	149XY	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	ICAL, 99WS7572, G	GAS 1	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	ICAL, 99WS7571, G	GAS 2	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	ICAL, 99WS7570, G	GAS 3	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	ICAL, 99WS7569, G	GAS 4	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	ICAL, 99WS7569, G	GAS 5	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	ICV, 99WS7547, GA	GAS ICV	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	ICAL, 99WS7100, J	JP4 1	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	ICAL, 99WS7098, J	JP4 2	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	ICAL, 99WS7097, J	JP4 3	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	ICAL, 99WS7096, J	JP4 4	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	ICAL, 99WS7096, J	JP4 5	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	ICV, 99WS7101, JP	JP4 ICV	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	ICAL, 99WS7310, B	BTEX 1	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	ICAL, 99WS7309, M	MTBE 1	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	ICAL, 99WS7309, M	MBTEX 2	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	ICAL, 99WS7308, M	MBTEX 3	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	ICAL, 99WS7307, M	MBTEX 4	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	ICAL, 99WS7306, M	MBTEX 5	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	ICV, 99WS7409, MB	MBTEX ICV	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

	Method	Method	Method	Format	File	File	File	Raw File	Rpt	Name	RT	Dev
1	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y001	149Y001	149Y001	-	LPT1:
2	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y002	149Y002	149Y002	-	LPT1:
3	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y003	149Y003	149Y003	-	LPT1:
4	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y004	149Y004	149Y004	-	LPT1:
5	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y005	149Y005	149Y005	-	LPT1:
6	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y006	149Y006	149Y006	-	LPT1:
7	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y007	149Y007	149Y007	-	LPT1:
8	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y008	149Y008	149Y008	-	LPT1:
9	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y009	149Y009	149Y009	-	LPT1:
10	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y010	149Y010	149Y010	-	LPT1:
11	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y011	149Y011	149Y011	-	LPT1:
12	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y012	149Y012	149Y012	-	LPT1:
13	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y013	149Y013	149Y013	-	LPT1:
14	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y014	149Y014	149Y014	-	LPT1:
15	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y015	149Y015	149Y015	-	LPT1:
16	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y016	149Y016	149Y016	-	LPT1:
17	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y017	149Y017	149Y017	-	LPT1:
18	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y018	149Y018	149Y018	-	LPT1:
19	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y019	149Y019	149Y019	-	LPT1:
20	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y020	149Y020	149Y020	-	LPT1:
21	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y021	149Y021	149Y021	-	LPT1:
22	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y022	149Y022	149Y022	-	LPT1:
23	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y023	149Y023	149Y023	-	LPT1:
24	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y024	149Y024	149Y024	-	LPT1:
25	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y025	149Y025	149Y025	-	LPT1:
26	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y026	149Y026	149Y026	-	LPT1:
27	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y027	149Y027	149Y027	-	LPT1:
28	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y028	149Y028	149Y028	-	LPT1:
29	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y029	149Y029	149Y029	-	LPT1:
30	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y030	149Y030	149Y030	-	LPT1:
31	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y031	149Y031	149Y031	-	LPT1:
32	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y032	149Y032	149Y032	-	LPT1:
33	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y033	149Y033	149Y033	-	LPT1:
34	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y034	149Y034	149Y034	-	LPT1:
35	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y035	149Y035	149Y035	-	LPT1:
36	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y036	149Y036	149Y036	-	LPT1:
37	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y037	149Y037	149Y037	-	LPT1:
38	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y038	149Y038	149Y038	-	LPT1:
39	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y039	149Y039	149Y039	-	LPT1:
40	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y040	149Y040	149Y040	-	LPT1:
41	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y041	149Y041	149Y041	-	LPT1:
42	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y042	149Y042	149Y042	-	LPT1:
43	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y043	149Y043	149Y043	-	LPT1:
44	-	1	1	TVHBTXE	Y_BTXEI	Y_060199	BTXE_S	149Y044	149Y044	149Y044	-	LPT1:

Turbochrom Sequence File : G:\GC19\ARCHIVE\BTXE\MAY29.SEQ
 Created by : TEW on : 5/29/99 03:36 PM
 Edited by : JDK on : 6/2/99 01:40 PM
 Description : JULIAN DATE OF 149Z

Number of Times Edited : 3

Sequence File Header Information:

Number of Rows : 44
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

R	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel A			Dil. Factor	Mult	Divisor	Addend	Norm. factor
				Study Name	Sample Amount	ISTD Amount					
1	Sample		149Z		1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000

Row	Col	Area	Unit	Inst	Method	Process	Carid	Report	Raw	Result	Baseline	Modified	Cal	Level	Update	Out
					Method	Method	Method	Format	File	File	File	Raw File	Rpt	Name	RT	Dev
1	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z001	153Z001		153Z001	-	-	-	LPT1:
2	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z002	153Z002		153Z002	-	-	-	LPT1:
3	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z003	153Z003		153Z003	-	-	-	LPT1:
4	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z004	153Z004		153Z004	-	-	-	LPT1:
5	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z005	153Z005		153Z005	-	-	-	LPT1:
6	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z006	153Z006		153Z006	-	-	-	LPT1:
7	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z007	153Z007		153Z007	-	-	-	LPT1:
8	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z008	153Z008		153Z008	-	-	-	LPT1:
9	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z009	153Z009		153Z009	-	-	-	LPT1:
10	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z010	153Z010		153Z010	-	-	-	LPT1:
11	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z011	153Z011		153Z011	-	-	-	LPT1:
12	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z012	153Z012		153Z012	-	-	-	LPT1:
13	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z013	153Z013		153Z013	-	-	-	LPT1:
14	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z014	153Z014		153Z014	-	-	-	LPT1:
15	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z015	153Z015		153Z015	-	-	-	LPT1:
16	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z016	153Z016		153Z016	-	-	-	LPT1:
17	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z017	153Z017		153Z017	-	-	-	LPT1:
18	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z018	153Z018		153Z018	-	-	-	LPT1:
19	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z019	153Z019		153Z019	-	-	-	LPT1:
20	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z020	153Z020		153Z020	-	-	-	LPT1:
21	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z021	153Z021		153Z021	-	-	-	LPT1:
22	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z022	153Z022		153Z022	-	-	-	LPT1:
23	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z023	153Z023		153Z023	-	-	-	LPT1:
24	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z024	153Z024		153Z024	-	-	-	LPT1:
25	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z025	153Z025		153Z025	-	-	-	LPT1:
26	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z026	153Z026		153Z026	-	-	-	LPT1:
27	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z027	153Z027		153Z027	-	-	-	LPT1:
28	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z028	153Z028		153Z028	-	-	-	LPT1:
29	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z029	153Z029		153Z029	-	-	-	LPT1:
30	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z030	153Z030		153Z030	-	-	-	LPT1:
31	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z031	153Z031		153Z031	-	-	-	LPT1:
32	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z032	153Z032		153Z032	-	-	-	LPT1:
33	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z033	153Z033		153Z033	-	-	-	LPT1:
34	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z034	153Z034		153Z034	-	-	-	LPT1:
35	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z035	153Z035		153Z035	-	-	-	LPT1:
36	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z036	153Z036		153Z036	-	-	-	LPT1:
37	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z037	153Z037		153Z037	-	-	-	LPT1:
38	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z038	153Z038		153Z038	-	-	-	LPT1:
39	-	1	2		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z039	153Z039		153Z039	-	-	-	LPT1:
40	-	1	2		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z040	153Z040		153Z040	-	-	-	LPT1:
41	-	1	2		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z041	153Z041		153Z041	-	-	-	LPT1:
42	-	1	2		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z042	153Z042		153Z042	-	-	-	LPT1:
43	-	1	2		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z043	153Z043		153Z043	-	-	-	LPT1:
44	-	1	1		Z_BTXE	Z_BTXEI	Z_060199	SOIL	153Z044	153Z044		153Z044	-	-	-	LPT1:

Analyst: TEW Date: 6-3-99 Sequence Name: MAY29

Batch No.: ICAL

File Prefix: 149XYZ

Continued from Page: —

File No.	Std. No.	Sample Name	Wt/Vol	Vial pH	Comment	Std. No.	Lims No. Std. Name
1	2,3	Carbon Markers	1g			1	99WS 7323
2		IB					DAILY SS 450 ppm
3		IB				2	96WS 2728
4	4	GAS 1 @ 250 ng					Heptane + Dodecane 2000 ppm
5	5	2 2500 ng				3	97SS 528
6	6	3 10000 ng					C6-C10 GRD
7	7	4 25000 ng				4	99WS 7572
8	7	↓ 5 ↓ 50000 ng					GAS 50 ppm
9		IB				5	99WS 7571
10	8	ICV			PASS		GAS 500 ppm
11		IB				6	99WS 7570
12	9	JP-4 1 @ 250 ng					GAS 2000 ppm
13	10	2 2500 ng				7	99WS 7569
14	11	3 10000 ng					GAS 10000 ppm
15	12	4 25000 ng				8	99WS 7547
16	12	↓ 5 ↓ 50000 ng					GAS 2000 ppm
17		IB				9	99WS 7100
18	13	ICV			PASS		JP-4 50 ppm
19		IB				10	99WS 7098
20	14	BTXE 1 @ 2.5 ng					JP-4 500 ppm
21	15	MTBE 1 @ 10 ng				11	99WS 7097
22	15	MTXE 2 @ 25 ng					JP-4 2000 ppm
23	16	3 100 ng				12	99WS 7096
24	17	4 500 ng					JP-4 10000 ppm
25	18	↓ 5 ↓ 1000 ng				13	99WS 7101
26		IB					JP-4 2000 ppm
27	19	ICV	↓		PASS	14	99WS 7310
							MBTXE 0.5 ppm
						15	99WS 7309
							MBTXE 2.5 ppm
						16	99WS 7308
							MBTXE 20 ppm
						17	99WS 7307
							MBTXE 50 ppm
						18	99WS 7306
							MBTXE 100 ppm
						19	99WS 7409
							MBTXE 2 nd source 20 ppm
							All runs rec'd std #1

Continued on Page: 6 TEW
Signed: [Signature]

6-3-99
Date

Read and Understood by
R L 6/3/99
Signed Date

Created by : TEW on : 6/1/99 10:17 AM

Edited by : TEW on : 6/1/99 11:55 AM

Description : JULIAN DATE OF 152XY

Number of Times Edited : 1

Sequence File Header Information:

Number of Rows : 44

Instrument Type : 760 / 900 Series Intelligent Interface

Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	TFT/BFB 1,150PP		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	TFT/BFB 2,225PP		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	TFT/BFB 3,450PP		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	TFT/BFB 4,675PP		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	TFT/BFB 5,950PP		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baselin File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X001	152X001		152X001	-	-	-	LPT1:
2	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X002	152X002		152X002	-	-	-	LPT1:
3	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X003	152X003		152X003	-	-	-	LPT1:
4	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X004	152X004		152X004	-	-	-	LPT1:
5	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X005	152X005		152X005	-	-	-	LPT1:
6	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X006	152X006		152X006	-	-	-	LPT1:
7	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X007	152X007		152X007	-	-	-	LPT1:
8	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X008	152X008		152X008	-	-	-	LPT1:
9	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X009	152X009		152X009	-	-	-	LPT1:
10	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X010	152X010		152X010	-	-	-	LPT1:
11	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X011	152X011		152X011	-	-	-	LPT1:
12	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X012	152X012		152X012	-	-	-	LPT1:
13	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X013	152X013		152X013	-	-	-	LPT1:
14	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X014	152X014		152X014	-	-	-	LPT1:
15	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X015	152X015		152X015	-	-	-	LPT1:
16	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X016	152X016		152X016	-	-	-	LPT1:
17	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X017	152X017		152X017	-	-	-	LPT1:
18	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X018	152X018		152X018	-	-	-	LPT1:
19	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X019	152X019		152X019	-	-	-	LPT1:
20	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X020	152X020		152X020	-	-	-	LPT1:
21	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X021	152X021		152X021	-	-	-	LPT1:
22	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X022	152X022		152X022	-	-	-	LPT1:
23	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X023	152X023		152X023	-	-	-	LPT1:
24	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X024	152X024		152X024	-	-	-	LPT1:
25	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X025	152X025		152X025	-	-	-	LPT1:
26	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X026	152X026		152X026	-	-	-	LPT1:
27	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X027	152X027		152X027	-	-	-	LPT1:
28	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X028	152X028		152X028	-	-	-	LPT1:
29	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X029	152X029		152X029	-	-	-	LPT1:
30	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X030	152X030		152X030	-	-	-	LPT1:
31	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X031	152X031		152X031	-	-	-	LPT1:
32	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X032	152X032		152X032	-	-	-	LPT1:
33	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X033	152X033		152X033	-	-	-	LPT1:
34	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X034	152X034		152X034	-	-	-	LPT1:
35	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X035	152X035		152X035	-	-	-	LPT1:
36	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X036	152X036		152X036	-	-	-	LPT1:
37	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X037	152X037		152X037	-	-	-	LPT1:
38	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X038	152X038		152X038	-	-	-	LPT1:
39	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X039	152X039		152X039	-	-	-	LPT1:
40	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X040	152X040		152X040	-	-	-	LPT1:
41	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X041	152X041		152X041	-	-	-	LPT1:
42	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X042	152X042		152X042	-	-	-	LPT1:
43	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X043	152X043		152X043	-	-	-	LPT1:
44	-	1	1	TVHBTXE	X_TVH	X_040999	TVH_S	152X044	152X044		152X044	-	-	-	LPT1:

Turbochrom Sequence File : G:\GC19\ARCHIVE\TVHBTXE\JUN01.SEQ
 Created by : TEW on : 6/1/99 10:17 AM
 Edited by : TEW on : 6/1/99 11:55 AM
 Description : JULIAN DATE OF 152XY

Number of Times Edited : 1

Sequence File Header Information:

Number of Rows : 44
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel B				Dil. Factor	Mult	Divisor	Addend	Norm. factor
				Study Name	Sample Amount	ISTD Amount	Sample Volume					
1	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	TFT/BFB 1,150PP		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	TFT/BFB 2,225PP		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	TFT/BFB 3,450PP		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	TFT/BFB 4,675PP		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	TFT/BFB 5,950PP		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y001	152Y001		152Y001	-	-	-	LPT1:
2	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y002	152Y002		152Y002	-	-	-	LPT1:
3	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y003	152Y003		152Y003	-	-	-	LPT1:
4	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y004	152Y004		152Y004	-	-	-	LPT1:
5	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y005	152Y005		152Y005	-	-	-	LPT1:
6	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y006	152Y006		152Y006	-	-	-	LPT1:
7	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y007	152Y007		152Y007	-	-	-	LPT1:
8	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y008	152Y008		152Y008	-	-	-	LPT1:
9	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y009	152Y009		152Y009	-	-	-	LPT1:
10	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y010	152Y010		152Y010	-	-	-	LPT1:
11	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y011	152Y011		152Y011	-	-	-	LPT1:
12	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y012	152Y012		152Y012	-	-	-	LPT1:
13	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y013	152Y013		152Y013	-	-	-	LPT1:
14	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y014	152Y014		152Y014	-	-	-	LPT1:
15	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y015	152Y015		152Y015	-	-	-	LPT1:
16	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y016	152Y016		152Y016	-	-	-	LPT1:
17	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y017	152Y017		152Y017	-	-	-	LPT1:
18	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y018	152Y018		152Y018	-	-	-	LPT1:
19	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y019	152Y019		152Y019	-	-	-	LPT1:
20	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y020	152Y020		152Y020	-	-	-	LPT1:
21	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y021	152Y021		152Y021	-	-	-	LPT1:
22	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y022	152Y022		152Y022	-	-	-	LPT1:
23	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y023	152Y023		152Y023	-	-	-	LPT1:
24	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y024	152Y024		152Y024	-	-	-	LPT1:
25	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y025	152Y025		152Y025	-	-	-	LPT1:
26	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y026	152Y026		152Y026	-	-	-	LPT1:
27	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y027	152Y027		152Y027	-	-	-	LPT1:
28	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y028	152Y028		152Y028	-	-	-	LPT1:
29	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y029	152Y029		152Y029	-	-	-	LPT1:
30	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y030	152Y030		152Y030	-	-	-	LPT1:
31	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y031	152Y031		152Y031	-	-	-	LPT1:
32	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y032	152Y032		152Y032	-	-	-	LPT1:
33	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y033	152Y033		152Y033	-	-	-	LPT1:
34	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y034	152Y034		152Y034	-	-	-	LPT1:
35	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y035	152Y035		152Y035	-	-	-	LPT1:
36	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y036	152Y036		152Y036	-	-	-	LPT1:
37	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y037	152Y037		152Y037	-	-	-	LPT1:
38	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y038	152Y038		152Y038	-	-	-	LPT1:
39	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y039	152Y039		152Y039	-	-	-	LPT1:
40	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y040	152Y040		152Y040	-	-	-	LPT1:
41	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y041	152Y041		152Y041	-	-	-	LPT1:
42	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y042	152Y042		152Y042	-	-	-	LPT1:
43	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y043	152Y043		152Y043	-	-	-	LPT1:
44	-	1	1	TVHBTXE	Y_BTXEI	Y_052599	BTXE_S	152Y044	152Y044		152Y044	-	-	-	LPT1:

Turbochrom Sequence File : G:\GC19\ARCHIVE\BTXE\JUN01.SEQ
 Created by : TEW on : 6/1/99 10:18 AM
 Edited by : TEW on : 6/1/99 10:18 AM
 Description : JULIAN DATE OF 152Z

Number of Times Edited : 0

Sequence File Header Information:

Number of Rows : 44
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel A				Mult	Divisor	Addend	Norm. factor
				Study Name	Sample Amount	ISTD Amount	Sample Volume				
1	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample				1.000	1.000	1.000	1.000	1.000	0.000	100.000

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z001	152Z001		152Z001	-	-	-	LPT1:
2	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z002	152Z002		152Z002	-	-	-	LPT1:
3	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z003	152Z003		152Z003	-	-	-	LPT1:
4	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z004	152Z004		152Z004	-	-	-	LPT1:
5	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z005	152Z005		152Z005	-	-	-	LPT1:
6	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z006	152Z006		152Z006	-	-	-	LPT1:
7	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z007	152Z007		152Z007	-	-	-	LPT1:
8	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z008	152Z008		152Z008	-	-	-	LPT1:
9	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z009	152Z009		152Z009	-	-	-	LPT1:
10	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z010	152Z010		152Z010	-	-	-	LPT1:
11	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z011	152Z011		152Z011	-	-	-	LPT1:
12	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z012	152Z012		152Z012	-	-	-	LPT1:
13	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z013	152Z013		152Z013	-	-	-	LPT1:
14	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z014	152Z014		152Z014	-	-	-	LPT1:
15	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z015	152Z015		152Z015	-	-	-	LPT1:
16	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z016	152Z016		152Z016	-	-	-	LPT1:
17	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z017	152Z017		152Z017	-	-	-	LPT1:
18	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z018	152Z018		152Z018	-	-	-	LPT1:
19	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z019	152Z019		152Z019	-	-	-	LPT1:
20	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z020	152Z020		152Z020	-	-	-	LPT1:
21	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z021	152Z021		152Z021	-	-	-	LPT1:
22	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z022	152Z022		152Z022	-	-	-	LPT1:
23	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z023	152Z023		152Z023	-	-	-	LPT1:
24	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z024	152Z024		152Z024	-	-	-	LPT1:
25	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z025	152Z025		152Z025	-	-	-	LPT1:
26	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z026	152Z026		152Z026	-	-	-	LPT1:
27	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z027	152Z027		152Z027	-	-	-	LPT1:
28	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z028	152Z028		152Z028	-	-	-	LPT1:
29	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z029	152Z029		152Z029	-	-	-	LPT1:
30	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z030	152Z030		152Z030	-	-	-	LPT1:
31	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z031	152Z031		152Z031	-	-	-	LPT1:
32	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z032	152Z032		152Z032	-	-	-	LPT1:
33	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z033	152Z033		152Z033	-	-	-	LPT1:
34	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z034	152Z034		152Z034	-	-	-	LPT1:
35	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z035	152Z035		152Z035	-	-	-	LPT1:
36	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z036	152Z036		152Z036	-	-	-	LPT1:
37	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z037	152Z037		152Z037	-	-	-	LPT1:
38	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z038	152Z038		152Z038	-	-	-	LPT1:
39	-	1	2	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z039	152Z039		152Z039	-	-	-	LPT1:
40	-	1	2	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z040	152Z040		152Z040	-	-	-	LPT1:
41	-	1	2	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z041	152Z041		152Z041	-	-	-	LPT1:
42	-	1	2	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z042	152Z042		152Z042	-	-	-	LPT1:
43	-	1	2	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z043	152Z043		152Z043	-	-	-	LPT1:
44	-	1	1	Z_BTXE	Z_BTXEI	Z_052599	SOIL	152Z044	152Z044		152Z044	-	-	-	LPT1:

Created by : AMP on : 6/2/99 05:42 PM

Edited by : jdk on : 6/3/99 06:20 PM

Description : JULIAN DATE OF 153GH

Number of Times Edited : 9

Sequence File Header Information:

Number of Rows : 43
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Study Name	Sample Descriptions - Channel A	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend
1	Sample	c markers		ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
2	Sample	ib		ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
3	Sample	ical,99ws7572,g	gas 1	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
4	Sample	ical,99ws7571,g	gas 2	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
5	Sample	ical,99ws7570,g	gas 3	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
6	Sample	ical,99ws7569,g	gas 4	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
7	Sample	ical,99ws7569,g	gas 5	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
8	Sample	ib		ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
9	Sample	icv,99ws7547,ga	gas icv	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
10	Sample	ib		ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
11	Sample	ical,99ws7310,b	btex 1	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
12	Sample	ical,99ws7309,m	mtbe 1	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
13	Sample	ical,99ws7309,m	mbtex 2	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
14	Sample	ical,99ws7308,m	mbtex 3	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
15	Sample	ical,99ws7307,m	mbtex 4	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
16	Sample	ical,99ws7306,m	mbtex 5	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
17	Sample	ib		ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
18	Sample	icv,99ws7409,mb	mbtex icv	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
19	Sample	ICAL,99WS7572,G	GAS 1	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
20	Sample	ICAL,99WS7310,B	BTEX 1	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
21	Sample	ICAL,99WS7309,M	MTBE 1	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
22	Sample	ICV,99WS7547,GA	GAS	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
23	Sample	ICV,99WS7409,MB	MBTEX	ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
24	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
25	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
26	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
27	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
28	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
29	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
30	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
31	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
32	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
33	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
34	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
35	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
36	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
37	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
38	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
39	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
40	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
41	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
42	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000
43	Sample			ical		1.000	1.000	1.000	1.000	1.000	1.000	0.000

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT
1	-	1	1	TVHBTXE	G_052999	G_052999	TVH_S	153g001	153g001		153g001	-	-	-
2	-	1	1	TVHBTXE	G_052999	G_052999	TVH_S	153g002	153g002		153g002	-	-	-
3	-	1	3	TVHBTXE	G_052999	G_052999	TVH_S	153g003	153g003		153g003	-	-	-
4	-	1	3	TVHBTXE	G_052999	G_052999	TVH_S	153g004	153g004		153g004	-	-	-
5	-	1	3	TVHBTXE	G_052999	G_052999	TVH_S	153g005	153g005		153g005	-	-	-
6	-	1	4	TVHBTXE	G_052999	G_052999	TVH_S	153g006	153g006		153g006	-	-	-
7	-	1	5	TVHBTXE	G_052999	G_052999	TVH_S	153g007	153g007		153g007	-	-	-
8	-	1	6	TVHBTXE	G_052999	G_052999	TVH_S	153g008	153g008		153g008	-	-	-
9	-	1	8	TVHBTXE	G_060299	G_060299	TVH_S	153g009	153g009		153g009	-	-	-
10	-	1	9	TVHBTXE	G_052999	G_052999	TVH_S	153g010	153g010		153g010	-	-	-
11	-	1	10	TVHBTXE	G_052999	G_052999	TVH_S	153g011	153g011		153g011	-	-	-
12	-	1	11	TVHBTXE	G_052999	G_052999	TVH_S	153g012	153g012		153g012	-	-	-
13	-	1	11	TVHBTXE	G_052999	G_052999	TVH_S	153g013	153g013		153g013	-	-	-
14	-	1	12	TVHBTXE	G_052999	G_052999	TVH_S	153g014	153g014		153g014	-	-	-
15	-	1	12	TVHBTXE	G_052999	G_052999	TVH_S	153g015	153g015		153g015	-	-	-
16	-	1	12	TVHBTXE	G_052999	G_052999	TVH_S	153g016	153g016		153g016	-	-	-
17	-	1	13	TVHBTXE	G_052999	G_052999	TVH_S	153g017	153g017		153g017	-	-	-
18	-	1	13	TVHBTXE	G_060299	G_060299	TVH_S	153g018	153g018		153g018	-	-	-
19	-	1	14	TVHBTXE	G_052999	G_052999	TVH_S	153g019	153g019		153g019	-	-	-
20	-	1	15	TVHBTXE	G_052999	G_052999	TVH_S	153g020	153g020		153g020	-	-	-
21	-	1	15	TVHBTXE	G_052999	G_052999	TVH_S	153g021	153g021		153g021	-	-	-
22	-	1	16	TVHBTXE	G_060299	G_060299	TVH_S	153g022	153g022		153g022	-	-	-
23	-	1	17	TVHBTXE	G_060299	G_060299	TVH_S	153g023	153g023		153g023	-	-	-
24	-	1	18	TVHBTXE	G_052999	G_052999	TVH_S	153g024	153g024		153g024	-	-	-
25	-	1	19	TVHBTXE	G_052999	G_052999	TVH_S	153g025	153g025		153g025	-	-	-
26	-	1	20	TVHBTXE	G_052999	G_052999	TVH_S	153g026	153g026		153g026	-	-	-
27	-	1	21	TVHBTXE	G_052999	G_052999	TVH_S	153g027	153g027		153g027	-	-	-
28	-	1	22	TVHBTXE	G_052999	G_052999	TVH_S	153g028	153g028		153g028	-	-	-
29	-	1	23	TVHBTXE	G_052999	G_052999	TVH_S	153g029	153g029		153g029	-	-	-
30	-	1	24	TVHBTXE	G_052999	G_052999	TVH_S	153g030	153g030		153g030	-	-	-
31	-	1	25	TVHBTXE	G_052999	G_052999	TVH_S	153g031	153g031		153g031	-	-	-
32	-	1	26	TVHBTXE	G_052999	G_052999	TVH_S	153g032	153g032		153g032	-	-	-
33	-	1	7	TVHBTXE	G_052999	G_052999	TVH_S	153g033	153g033		153g033	-	-	-
34	-	1	27	TVHBTXE	G_052999	G_052999	TVH_S	153g034	153g034		153g034	-	-	-
35	-	1	28	TVHBTXE	G_052999	G_052999	TVH_S	153g035	153g035		153g035	-	-	-
36	-	1	29	TVHBTXE	G_052999	G_052999	TVH_S	153g036	153g036		153g036	-	-	-
37	-	1	30	TVHBTXE	G_052999	G_052999	TVH_S	153g037	153g037		153g037	-	-	-
38	-	1	31	TVHBTXE	G_052999	G_052999	TVH_S	153g038	153g038		153g038	-	-	-
39	-	1	32	TVHBTXE	G_052999	G_052999	TVH_S	153g039	153g039		153g039	-	-	-
40	-	1	33	TVHBTXE	G_052999	G_052999	TVH_S	153g040	153g040		153g040	-	-	-
41	-	1	34	TVHBTXE	G_052999	G_052999	TVH_S	153g041	153g041		153g041	-	-	-
42	-	1	35	TVHBTXE	G_052999	G_052999	TVH_S	153g042	153g042		153g042	-	-	-
43	-	1	36	TVHBTXE	G_052999	G_052999	TVH_S	153g043	153g043		153g043	-	-	-

Analyst: JK Date: 6/4/99

Sequence Name: JUN02

Page 30

Batch No.: 2CAL

File Prefix: 153GHE

Continued from Page: 29

File No.	Std. No.	Sample Name	Wt/vol	vial pH	Comment	Std. No.	Lims No. Std. Name
1	2,3	C-markers			6/2 18.06	1	99W57323
2		IB					Daily SS @ 450 ppm
3	4	Gas 1 250ng			RR	2	9755528
4	5	Gas 2 2500 ng			Pass		C6-C10
5	6	Gas 3 10000 ng			↓	3	96W52729
6	7	Gas 4 25000 ng			↓		C7, C12
7	7	Gas 5 50000 ng			✓	4	99W57572
8		IB					Gas @ 50 ppm
9	8	ICV			RR	5	99W57571
10		IB					Gas @ 500 ppm
11	9	BTEX 1, 2.5ng			RR	6	99W57570
12	10	MTBE 1, 10ng			↓		Gas @ 2000 ppm
13	10	MTBE 2, 25ng			Pass	7	99W57569
14	11	MTBE 3, 100ng			↓		Gas @ 10000 ppm
15	12	MTBE 4, 500ng			↓	8	99W57547
16	13	MTBE 5, 1000ng			↓		Gas @ 2000 ppm
17		IB				9	99W57310
18	14	ICV			RR		MTBE @ 0.5 ppm
19	4	Gas 1, 250ng			Pass	10	99W57309
20	9	BTEX 1, 2.5ng			↓		MTBE @ 2.5 ppm
21	10	MTBE 1, 10ng			↓	11	99W57308
22	8	ICV			↓		MTBE @ 20 ppm
23	14	ICV 4, 2000			Pass BTEX, MTBE	12	99W57307
							MTBE @ 50 ppm
						13	99W57306
							MTBE @ 100 ppm
						14	99W57409
							MTBE 2 nd @ 20 ppm
6/4/99							
ical on page(s)							
of BK							
All runs rec'd Std.#1							

Continued on Page: _____

Read and Understood by _____

Signed: [Signature]

Date: 6/4/99

Signed: [Signature]

Date: _____

Turbochrom Sequence File : G:\GC05\ARCHIVE\TVHBTXE\JUN04.SEQ
 Created by : AMP on : 6/4/99 12:04 PM
 Edited by : jdk on : 6/8/99 12:39 PM
 Description : JULIAN DATE OF 155GH

Number of Times Edited : 2

Sequence File Header Information:

Number of Rows : 44
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend
1	Sample	IB		ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
2	Sample	TFT/BFB 1, 150n	150ng	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
3	Sample	TFT/BFB 2, 225n	225ng	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
4	Sample	TFT/BFB 3, 450n	450ng	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
5	Sample	TFT/BFB 4, 675n	675ng	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
6	Sample	TFT/BFB 5, 950n	950ng	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
7	Sample	TFT/BFB DAILYSS	450ng	ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
8	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
9	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
10	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
11	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
12	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
13	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
14	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
15	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
16	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
17	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
18	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
19	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
20	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
21	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
22	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
23	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
24	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
25	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
26	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
27	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
28	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
29	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
30	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
31	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
32	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
33	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
34	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
35	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
36	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
37	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
38	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
39	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
40	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
41	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
42	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
43	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000
44	Sample			ICAL	1.000	1.000	1.000	1.000	1.000	1.000	0.000

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT
1	-	1	1	TVHBTXE	G_060299	G_060299	TVH_S	155G001	155G001		155G001	-	-	-
2	-	1	1	TVHBTXE	G_060299	G_060299	TVH_S	155G002	155G002		155G002	-	-	-
3	-	1	2	TVHBTXE	G_060299	G_060299	TVH_S	155G003	155G003		155G003	-	-	-
4	-	1	3	TVHBTXE	G_060299	G_060299	TVH_S	155G004	155G004		155G004	-	-	-
5	-	1	3	TVHBTXE	G_060299	G_060299	TVH_S	155G005	155G005		155G005	-	-	-
6	-	1	3	TVHBTXE	G_060299	G_060299	TVH_S	155G006	155G006		155G006	-	-	-
7	-	1	4	TVHBTXE	G_060299	G_060299	TVH_S	155G007	155G007		155G007	-	-	-
8	-	1	5	TVHBTXE	G_060299	G_060299	TVH_S	155G008	155G008		155G008	-	-	-
9	-	1	6	TVHBTXE	G_060299	G_060299	TVH_S	155G009	155G009		155G009	-	-	-
10	-	1	8	TVHBTXE	G_060299	G_060299	TVH_S	155G010	155G010		155G010	-	-	-
11	-	1	9	TVHBTXE	G_060299	G_060299	TVH_S	155G011	155G011		155G011	-	-	-
12	-	1	10	TVHBTXE	G_060299	G_060299	TVH_S	155G012	155G012		155G012	-	-	-
13	-	1	11	TVHBTXE	G_060299	G_060299	TVH_S	155G013	155G013		155G013	-	-	-
14	-	1	11	TVHBTXE	G_060299	G_060299	TVH_S	155G014	155G014		155G014	-	-	-
15	-	1	12	TVHBTXE	G_060299	G_060299	TVH_S	155G015	155G015		155G015	-	-	-
16	-	1	12	TVHBTXE	G_060299	G_060299	TVH_S	155G016	155G016		155G016	-	-	-
17	-	1	12	TVHBTXE	G_060299	G_060299	TVH_S	155G017	155G017		155G017	-	-	-
18	-	1	13	TVHBTXE	G_060299	G_060299	TVH_S	155G018	155G018		155G018	-	-	-
19	-	1	13	TVHBTXE	G_060299	G_060299	TVH_S	155G019	155G019		155G019	-	-	-
20	-	1	14	TVHBTXE	G_060299	G_060299	TVH_S	155G020	155G020		155G020	-	-	-
21	-	1	15	TVHBTXE	G_060299	G_060299	TVH_S	155G021	155G021		155G021	-	-	-
22	-	1	15	TVHBTXE	G_060299	G_060299	TVH_S	155G022	155G022		155G022	-	-	-
23	-	1	16	TVHBTXE	G_060299	G_060299	TVH_S	155G023	155G023		155G023	-	-	-
24	-	1	17	TVHBTXE	G_060299	G_060299	TVH_S	155G024	155G024		155G024	-	-	-
25	-	1	18	TVHBTXE	G_060299	G_060299	TVH_S	155G025	155G025		155G025	-	-	-
26	-	1	19	TVHBTXE	G_060299	G_060299	TVH_S	155G026	155G026		155G026	-	-	-
27	-	1	20	TVHBTXE	G_060299	G_060299	TVH_S	155G027	155G027		155G027	-	-	-
28	-	1	21	TVHBTXE	G_060299	G_060299	TVH_S	155G028	155G028		155G028	-	-	-
29	-	1	22	TVHBTXE	G_060299	G_060299	TVH_S	155G029	155G029		155G029	-	-	-
30	-	1	23	TVHBTXE	G_060299	G_060299	TVH_S	155G030	155G030		155G030	-	-	-
31	-	1	24	TVHBTXE	G_060299	G_060299	TVH_S	155G031	155G031		155G031	-	-	-
32	-	1	25	TVHBTXE	G_060299	G_060299	TVH_S	155G032	155G032		155G032	-	-	-
33	-	1	26	TVHBTXE	G_060299	G_060299	TVH_S	155G033	155G033		155G033	-	-	-
34	-	1	7	TVHBTXE	G_060299	G_060299	TVH_S	155G034	155G034		155G034	-	-	-
35	-	1	27	TVHBTXE	G_060299	G_060299	TVH_S	155G035	155G035		155G035	-	-	-
36	-	1	28	TVHBTXE	G_060299	G_060299	TVH_S	155G036	155G036		155G036	-	-	-
37	-	1	29	TVHBTXE	G_060299	G_060299	TVH_S	155G037	155G037		155G037	-	-	-
38	-	1	30	TVHBTXE	G_060299	G_060299	TVH_S	155G038	155G038		155G038	-	-	-
39	-	1	31	TVHBTXE	G_060299	G_060299	TVH_S	155G039	155G039		155G039	-	-	-
40	-	1	32	TVHBTXE	G_060299	G_060299	TVH_S	155G040	155G040		155G040	-	-	-
41	-	1	33	TVHBTXE	G_060299	G_060299	TVH_S	155G041	155G041		155G041	-	-	-
42	-	1	34	TVHBTXE	G_060299	G_060299	TVH_S	155G042	155G042		155G042	-	-	-
43	-	1	35	TVHBTXE	G_060299	G_060299	TVH_S	155G043	155G043		155G043	-	-	-
44	-	1	36	TVHBTXE	G_060299	G_060299	TVH_S	155G044	155G044		155G044	-	-	-

Curtis & Tompkins, Ltd. Sample Batch Report

Batch Number: 48938
 Date Started: 25-JUN-99
 Batched By : Troy E. Windsor

Analysis : N/A
 Bgroup: : TVH
 Department: GC Organics

Sample No.	Type	Client	Matrix	Analysis	Due Date
140039-004		Geomatrix Consultants	Water	BTXE	02-JUL-99
140039-005		Geomatrix Consultants	Water	BTXE	02-JUL-99
140039-008		Geomatrix Consultants	Water	BTXE	02-JUL-99
140119-001		Harding Lawson Associates	Water	BTXE	30-JUN-99
140119-002		Harding Lawson Associates	Water	BTXE	30-JUN-99
140119-002		Harding Lawson Associates	Water	TVH	30-JUN-99
140119-003		Harding Lawson Associates	Water	BTXE	30-JUN-99
140119-003		Harding Lawson Associates	Water	TVH	30-JUN-99
140119-004		Harding Lawson Associates	Water	BTXE	30-JUN-99
140119-004		Harding Lawson Associates	Water	TVH	30-JUN-99
140119-005		Harding Lawson Associates	Water	BTXE	30-JUN-99
140119-005		Harding Lawson Associates	Water	TVH	30-JUN-99
140119-006		Harding Lawson Associates	Water	BTXE	30-JUN-99
140119-006		Harding Lawson Associates	Water	TVH	30-JUN-99
140119-007		Harding Lawson Associates	Water	BTXE	30-JUN-99
140119-007		Harding Lawson Associates	Water	TVH	30-JUN-99
QC01136	LCS		Water		
QC01137	LCS		Water		
QC01138	MS		Water		
QC01139	MS	of 140119-006	Water		
QC01140	MSD	of 140119-006	Water		

Curtis & Tompkins, Ltd. Sample Batch Report

Batch Number: 48990
 Date Started: 28-JUN-99
 Batched By : Gabe Prindle

Analysis : N/A
 Bgroup: : TVH
 Department: GC Organics

Sample No.	Type	Client	Matrix	Analysis	Due Date
140119-004		Harding Lawson Associates	Water	TVH	30-JUN-99
140119-005		Harding Lawson Associates	Water	BTXE	30-JUN-99
140119-006		Harding Lawson Associates	Water	BTXE	30-JUN-99
140127-001		U.S. Army Corps of Engineers	Water	TVH	07-JUL-99
140148-001		Subsurface Consultants	Water	BTXE	01-JUL-99
140148-001		Subsurface Consultants	Water	TVH	01-JUL-99
140148-001		Subsurface Consultants	Water	BTXE	01-JUL-99
140148-002		Subsurface Consultants	Water	TVH	01-JUL-99
140148-002		Subsurface Consultants	Water	BTXE	01-JUL-99
140148-003		Subsurface Consultants	Water	TVH	01-JUL-99
140148-003		Subsurface Consultants	Water	BTXE	01-JUL-99
140148-004		Subsurface Consultants	Water	TVH	01-JUL-99
140148-004		Subsurface Consultants	Water	BTXE	01-JUL-99
140148-005		Subsurface Consultants	Water	TVH	01-JUL-99
140148-005		Subsurface Consultants	Water	BTXE	01-JUL-99
140148-006		Subsurface Consultants	Water	TVH	01-JUL-99
140148-006		Subsurface Consultants	Water	BTXE	01-JUL-99
140150-001		Subsurface Consultants	Water	TVH	01-JUL-99
140150-001		Subsurface Consultants	Water	BTXE	01-JUL-99
140150-002		Subsurface Consultants	Water	TVH	01-JUL-99
140150-002		Subsurface Consultants	Water	BTXE	29-JUN-99
140164-001		Lee, Inc.	Water	TVH	29-JUN-99
140164-001		Lee, Inc.	Water		
QC01361	MB		Water		
QC01362	LCS		Water		
QC01363	BS		Water		
QC01364	BSD		Water		
QC01367	MS	of 140119-004	Water		
QC01368	MSD	of 140119-004	Water		

Curtis & Tompkins, Ltd. Sample Batch Report

Batch Number: 49025
 Date Started: 30-JUN-99
 Batched By : Troy E. Windsor

Analysis : N/A
 Bgroup: : TVH
 Department: GC Organics

Sample No.	Type	Client	Matrix	Analysis	Due Date
140119-005		Harding Lawson Associates	Water		
140119-006		Harding Lawson Associates	Water	BTXE	30-JUN-99
140172-001		Subsurface Consultants	Water	BTXE	30-JUN-99
140172-001		Subsurface Consultants	Water	BTXE	02-JUL-99
140172-002		Subsurface Consultants	Water	TVH	02-JUL-99
140172-002		Subsurface Consultants	Water	BTXE	02-JUL-99
140172-003		Subsurface Consultants	Water	TVH	02-JUL-99
140172-003		Subsurface Consultants	Water	BTXE	02-JUL-99
140172-004		Subsurface Consultants	Water	TVH	02-JUL-99
140172-004		Subsurface Consultants	Water	BTXE	02-JUL-99
140172-005		Subsurface Consultants	Water	TVH	02-JUL-99
140172-005		Subsurface Consultants	Water	BTXE	02-JUL-99
140172-006		Subsurface Consultants	Water	TVH	02-JUL-99
140172-006		Subsurface Consultants	Water	BTXE	02-JUL-99
140195-002		Subsurface Consultants	Water	TVH	02-JUL-99
140195-002		Subsurface Consultants	Water	BTXE	02-JUL-99
140197-006		Tetra Tech EMI	Water	TVH	06-JUL-99
140197-006		Tetra Tech EMI	Water	BTXE	06-JUL-99
140197-007		Tetra Tech EMI	Water	TVH	09-JUL-99
140197-007		Tetra Tech EMI	Water	BTXE	09-JUL-99
140197-008		Tetra Tech EMI	Water	TVH	09-JUL-99
140197-008		Tetra Tech EMI	Water	BTXE	09-JUL-99
140197-009		Tetra Tech EMI	Water	TVH	09-JUL-99
140197-009		Tetra Tech EMI	Water	BTXE	09-JUL-99
140197-010		Tetra Tech EMI	Water	TVH	09-JUL-99
140197-010		Tetra Tech EMI	Water	BTXE	09-JUL-99
140197-011		Tetra Tech EMI	Water	TVH	09-JUL-99
140197-011		Tetra Tech EMI	Water	BTXE	09-JUL-99
QC01504	LCS		Water	TVH	09-JUL-99
QC01505	LCS		Water		
QC01506	MB		Water		
QC01507	MS	of 140197-009	Water		
QC01508	MSD	of 140197-009	Water		



TEH - Tot Est Hydrocarbons

Client: Harding Lawson Associates
 Project#: 42633-1
 Location: Port of Oakland

Analysis Method: EPA 8015M
 Prep Method: EPA 3520

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140119-002	MW-5	48960	06/24/99	06/26/99	06/29/99	
140119-003	MW-7	48960	06/24/99	06/26/99	06/29/99	
140119-004	MW-2	48960	06/24/99	06/26/99	06/29/99	
140119-005	MW-4	48960	06/24/99	06/26/99	06/29/99	

Matrix: Water

Analyte	Units	140119-002	140119-003	140119-004	140119-005
Diln Fac:		1	1	1	1
Diesel C10-C24	ug/L	<50	<50	<50	<50
Motor Oil C24-C36	ug/L	<300	<300	<300	<300
Surrogate					
Hexacosane	%REC	75	81	84	83

TEH-Tot Ext Hydrocarbons

Client: Harding Lawson Associates	Analysis Method: EPA 8015M
Project#: 42633-1	Prep Method: EPA 3520
Location: Port of Oakland	

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140119-006	DUP-6/99	48960	06/24/99	06/26/99	06/29/99	
140119-007	MW-6	48991	06/24/99	06/28/99	07/02/99	

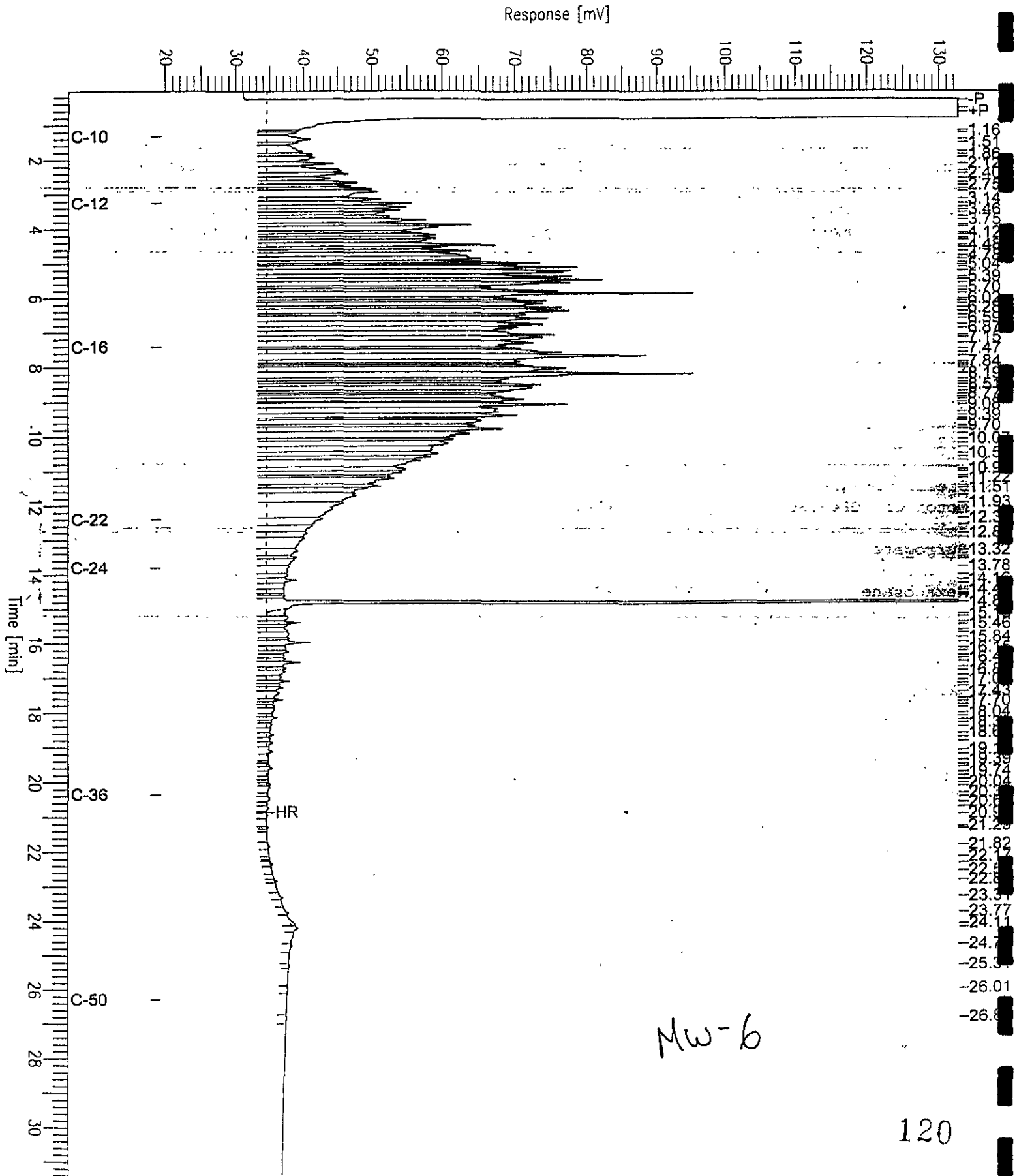
Matrix: Water

Analyte	Units	140119-006	140119-007
Diln Fac:		1	1
Diesel C10-C24	ug/L	<50	1700
Motor Oil C24-C36	ug/L	<300	<300
Surrogate			
Hexacosane	%REC	82	36 *

Sample Name : 140119-007sg,48991
 FileName : G:\GC11\CHA\182A025.RAW
 Method : ATEH166.MTH
 Start Time : 0.01 min
 Scale Factor: 0.0

End Time : 31.43 min
 Plot Offset: 19 mV

Sample #: 48991
 Date : 7/2/99 08:29 AM
 Time of Injection: 7/2/99 07:53 AM
 Low Point : 19.43 mV
 High Point : 132.57 mV
 Plot Scale: 113.1 mV



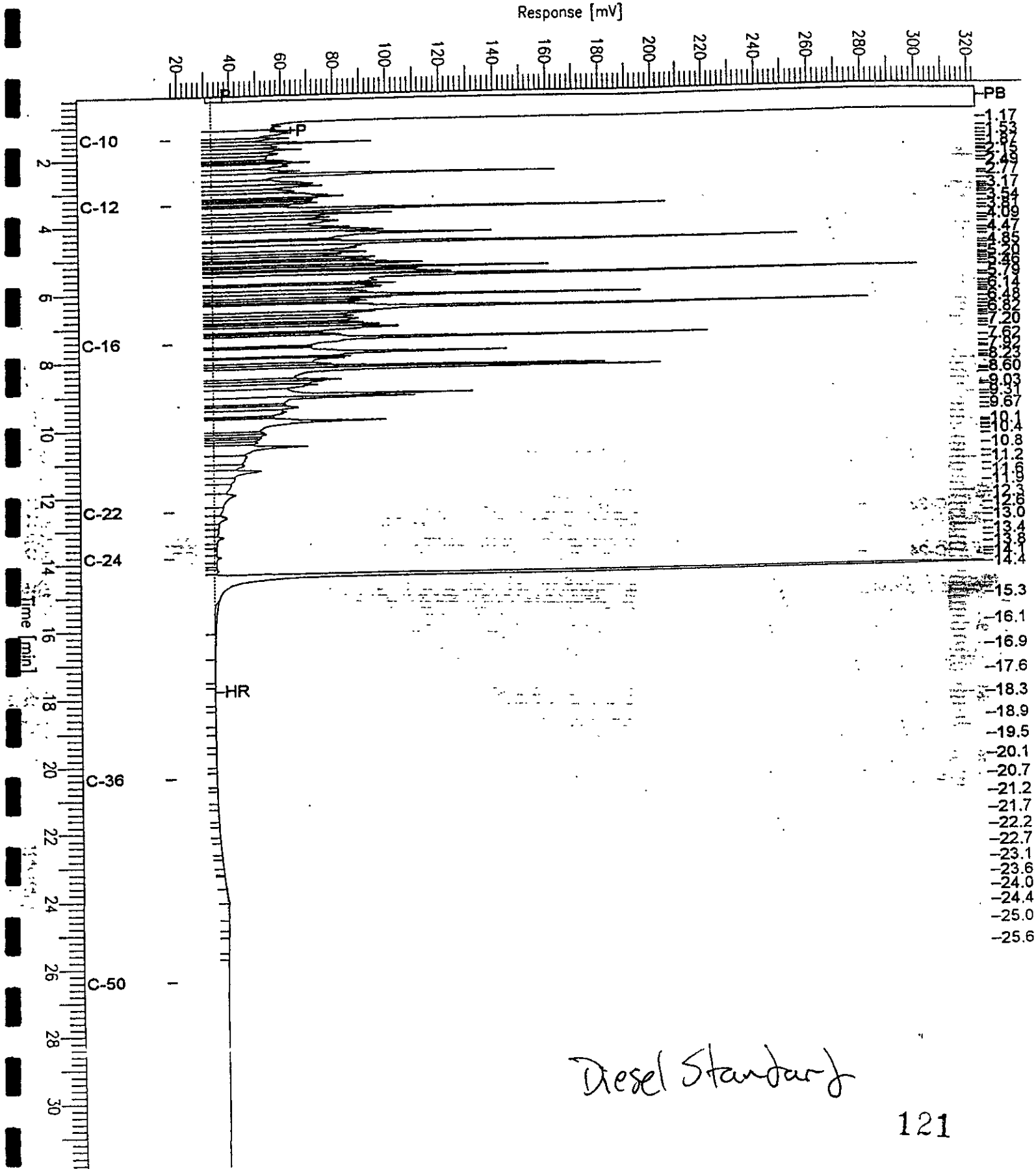
1.16
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Chromatogram

Sample Name : CCV,99WS7711,DSL
FileName : C:\GC15\CHB\179B016.RAW
Method : BTEH155.MTH
Start Time : 0.11 min
Scale Factor : 0.0

Sample #: 500MG/L
Date : 6/29/99 08:45 AM
Time of Injection: 6/28/99 08:27 PM
Low Point : 17.60 mV
Plot Scale: 305.4 mV
High Point : 323.03 mV

End Time : 31.91 min
Plot Offset: 18 mV



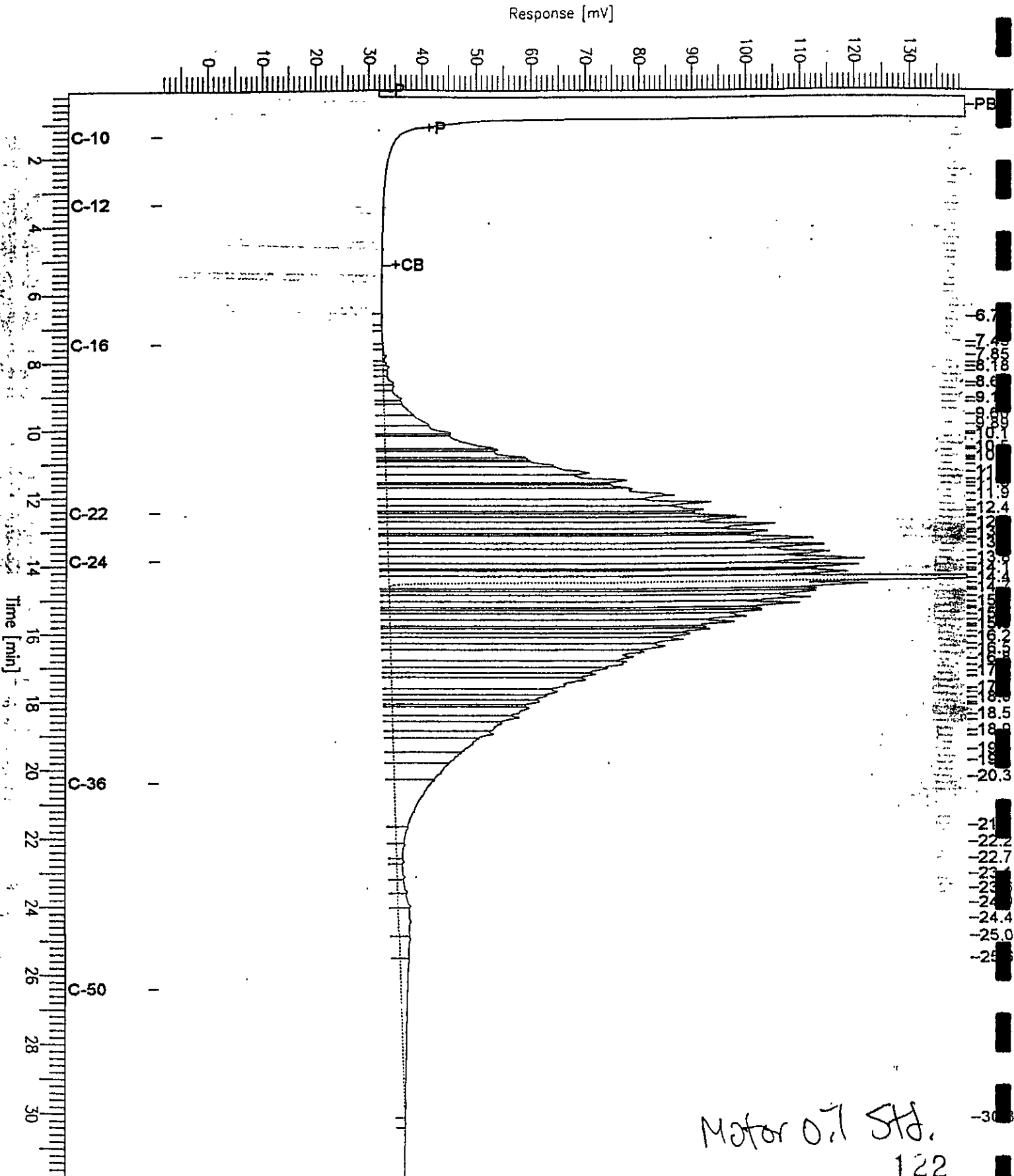
Diesel Standard

Sample Name : ccv,99ws7712.mo
FileName : C:\GC15\CHB\179B027.RAW
Method : BTEH155.MTH
Start Time : 0.05 min
Scale Factor: 0.0

End Time : 31.91 min
Plot Offset: -9 mV

Sample #: 500mg/l
Date : 6/29/99 08:54 AM
Time of Injection: 6/29/99 04:18 AM
Low Point : -8.57 mV
Plot Scale: 148.6 mV

High Point : 139.99 mV



Motor 0.7 Std.
122



TEH-Tot Ext Hydrocarbons

Client: Harding Lawson Associates	Analysis Method: EPA 8015M
Project#: 42633-1	Prep Method: EPA 3520
Location: Port of Oakland	
METHOD BLANK	
Matrix: Water	Prep Date: 06/26/99
Batch#: 48960	Analysis Date: 06/29/99
Units: ug/L	
Diln Fac: 1	

MB Lab ID: QC01240

Analyte	Result		
Diesel C10-C24	<50		
Motor Oil C24-C36	<300		
Surrogate	%Rec	Recovery Limits	
Hexacosane	75	58-128	



TEH-Tot Ext Hydrocarbons			
Client:	Harding Lawson Associates	Analysis Method:	EPA 8015M
Project#:	42633-1	Prep Method:	EPA 3520
Location:	Port of Oakland		
METHOD BLANK			
Matrix:	Water	Prep Date:	06/28/99
Batch#:	48991	Analysis Date:	07/02/99
Units:	ug/L		
Diln Fac:	1		

MB Lab ID: QC01369

Analyte	Result		
Diesel C10-C24	<50		
Motor Oil C24-C36	<300		
Surrogate	%Rec	Recovery Limits	
Hexacosane	43*	58-128	

TEH-Tot Ext Hydrocarbons

Client: Harding Lawson Associates Analysis Method: EPA 8015M
 Project#: 42633-1 Prep Method: EPA 3520
 Location: Port of Oakland

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water Prep Date: 06/26/99
 Batch#: 48960 Analysis Date: 06/29/99
 Units: ug/L
 Diln Fac: 1

BS Lab ID: QC01241

Analyte	Spike Added	BS	%Rec #	Limits
Diesel C10-C24	2475	1917	77	50-114
Surrogate	%Rec	Limits		
Hexacosane	85	58-128		

BSD Lab ID: QC01242

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Diesel C10-C24	2475	2001	81	50-114	4	25
Surrogate	%Rec	Limits				
Hexacosane	88	58-128				

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits



TEH-Tot Ext Hydrocarbons

Client: Harding Lawson Associates	Analysis Method: EPA 8015M
Project#: 42633-1	Prep Method: EPA 3520
Location: Port of Oakland	

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water	Prep Date: 06/28/99
Batch#: 48991	Analysis Date: 07/02/99
Units: ug/L	
Diln Fac: 1	

BS Lab ID: QC01370

Analyte	Spike Added	BS	%Rec #	Limits
Diesel C10-C24	2475	1741	70	50-114
Surrogate	%Rec	Limits		
Hexacosane	39*	58-128		

BSD Lab ID: QC01371

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limits
Diesel C10-C24	2475	1793	72	50-114	3	25
Surrogate	%Rec	Limits				
Hexacosane	40*	58-128				

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

INITIAL CALIBRATION REPORT FOR 140119 TEH Water
Curtis & Tompkins Laboratories

Instrument: GC11A
Calnum: 119232940003

Gas Chromatograph #11 (Channel A) TEH
Calname:

Date: 11-JUN-1999 17:04

Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	161a034	119232940034	dsl-10	11-JUN-1999 17:04	99WS7647
2	161a035	119232940035	dsl-50	11-JUN-1999 17:44	99WS7646
3	161a036	119232940036	dsl-100	11-JUN-1999 18:24	99WS7645
4	161a037	119232940037	dsl-250	11-JUN-1999 19:04	99WS7644
5	161a038	119232940038	dsl-500	11-JUN-1999 19:44	99WS7643
6	161a039	119232940039	dsl-1000	11-JUN-1999 20:25	99WS7642
7	161a040	119232940040	dsl-2500	11-JUN-1999 21:05	99WS7641
8	161a041	119232940041	dsl-5000	11-JUN-1999 21:45	99WS7640

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	a0	a1	a2	units	avg	r ²		
															±RSD	MxRSD	Flags
Diesel C10-C24	A	34391	49875	54361	52187	53646	55195	57138	54256	1.946E-5			mg/L	51381	14	<=20	

128

Instrument amount = a0 + response * a1 + response² * a2

Page 1 of 1

INITIAL CALIBRATION REPORT FOR 140119 TEH Water
Curtis & Tompkins Laboratories

Instrument: GC15B
Calnum: 169208590002

Gas Chromatograph #15 (Channel B) TEH
Calname:

Date: 25-MAY-1999 16:31

Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	150b014	169208590014	diesel	25-MAY-1999 16:31	99WS7271
2	150b015	169208590015	diesel	25-MAY-1999 17:14	99WS7270
3	150b016	169208590016	diesel	25-MAY-1999 17:58	99WS7269
4	150b017	169208590017	diesel	25-MAY-1999 18:41	99WS7268
5	150b018	169208590018	diesel	25-MAY-1999 19:24	99WS7267
6	150b019	169208590019	diesel	25-MAY-1999 20:08	99WS7266
7	150b020	169208590020	diesel	25-MAY-1999 20:51	99WS7265
8	150b021	169208590021	diesel	25-MAY-1999 22:23	99WS7264

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	a0	a1	a2	units	avg	r^2	
															RSR	Flags
Diesel C10-C24	B	48117	58070	54771	55427	58411	56602	55905	54981	1.809E-5			mg/L	55285	6	<=20

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 140119 TEH Water
Curtis & Tompkins Laboratories

Instrument: GC11A
Calnum: 119232940001

Gas Chromatograph #11 (Channel A) TEH
Calname:

Date: 11-JUN-1999 00:21

Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	161a010	119232940010	hex5	11-JUN-1999 00:21	99WS7263
2	161a011	119232940011	hex10	11-JUN-1999 01:01	99WS7262
3	161a012	119232940012	hex25	11-JUN-1999 01:42	99WS7261
4	161a013	119232940013	hex50	11-JUN-1999 02:22	99WS7260
5	161a014	119232940014	hex100	11-JUN-1999 03:03	99WS7259

Analyte	Ch	L1	L2	L3	L4	L5	a0	a1	a2	units	avg	r ² %RSD	MxRSD	Flag
Hexacosane	A	50900	56769	55763	60469	52011		1.812E-5		mq/L	55182	7		<=20

130

Instrument amount = a0 + response * a1 + response² * a2

INITIAL CALIBRATION REPORT FOR 140119 TEH Water
Curtis & Tompkins Laboratories

Instrument: GC15B
Calnum: 169208590001

Gas Chromatograph #15 (Channel B) TEH
Calname:

Date: 25-MAY-1999 12:10

Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	150b008	169208590008	hex	25-MAY-1999 12:10	99WS7263
2	150b009	169208590009	hex	25-MAY-1999 12:53	99WS7262
3	150b010	169208590010	hex	25-MAY-1999 13:37	99WS7261
4	150b011	169208590011	hex	25-MAY-1999 14:20	99WS7260
5	150b012	169208590012	hex	25-MAY-1999 15:04	99WS7259

Analyte	Ch	L1	L2	L3	L4	L5	a0	a1	a2	units	avq	r ² %RSD	MxRSD	Flags
Hexacosane	B	60164	62459	59752	61300	54106		1.679E-5		mq/L	59556	5	<=20	

129

Instrument amount = a0 + response * a1 + response² * a2

Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 140119 TEH Water
 Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkCnc	OntAmt	Units	%D	Max	%D	Flags
						RF/CF	RF/CF							
GC11A	A	119263026021	02-JUL-1999 05:12	119232940001	11-JUN-1999	55182	58344	50.000	52.865	mg/L	6	<=15		
GC11A	A	119263026033	02-JUL-1999 13:15	119232940001	11-JUN-1999	55182	61104	50.000	55.365	mg/L	11	<=15		
GC11A	A	119263026035	02-JUL-1999 14:35	119232940001	11-JUN-1999	55182	56713	50.000	51.387	mg/L	3	<=15		
GC11A	A	119263026046	02-JUL-1999 21:59	119232940001	11-JUN-1999	55182	59550	50.000	53.958	mg/L	8	<=15		
GC15B	B	169258344027	29-JUN-1999 04:18	169208590001	25-MAY-1999	59556	55833	50.000	46.874	mg/L	-6	<=15		
GC15B	B	169258344039	29-JUN-1999 12:52	169208590001	25-MAY-1999	59556	54902	50.000	46.093	mg/L	-8	<=15		
GC15B	B	169258344040	29-JUN-1999 13:34	169208590001	25-MAY-1999	59556	56073	50.000	47.076	mg/L	-8	<=15		
GC15B	B	169258344048	29-JUN-1999 19:19	169208590001	25-MAY-1999	59556	56250	50.000	47.224	mg/L	-6	<=15		

CONTINUING CALIBRATION SUMMARY FOR 140119 TEH Water
Curtis & Tompkins Laboratories

Analyte: Diesel C10-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkCnc	OntAmt	Units	%D	Max	%D	Flags
						RF/CF	RF/CF							
GC11A	A	119263026018	02-JUL-1999 03:11	119232940003	11-JUN-1999	51381	51138	500.00	497.64	mg/L	0	<=15		
GC11A	A	119263026033	02-JUL-1999 13:15	119232940003	11-JUN-1999	51381	56232	500.00	547.20	mg/L	9	<=15		
GC11A	A	119263026046	02-JUL-1999 21:59	119232940003	11-JUN-1999	51381	55181	500.00	536.98	mg/L	7	<=15		
GC15B	B	169258344026	29-JUN-1999 03:36	169208590002	25-MAY-1999	55285	53613	500.00	484.87	mg/L	-3	<=15		
GC15B	B	169258344039	29-JUN-1999 12:52	169208590002	25-MAY-1999	55285	54968	500.00	497.13	mg/L	-1	<=15		
GC15B	B	169258344048	29-JUN-1999 19:19	169208590002	25-MAY-1999	55285	57434	500.00	519.43	mg/L	4	<=15		

SEQUENCE SUMMARY FOR 140119 TEH Water
Curtis & Tompkins Laboratories

Sequence: 119263026 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 01-JUL-1999

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used
035	182a035	CCV	jet			02-JUL-1999	14:35	1.0			3	3
036	182a036	SAMPLE	140239-001	49082	Water	02-JUL-1999	15:16	1.0			3	
037	182a037	LCS	QC01554	49037	Soil	02-JUL-1999	15:56	1.0			3	
038	182a038	BLANK	QC01369	48991	Water	02-JUL-1999	16:37	1.0	6	1	3	
039	182a039	BLANK	QC99254 S	48478	Soil	02-JUL-1999	17:17	1.0	6		3	
040	182a040	BS	QC01370	48991	Water	02-JUL-1999	17:57	1.0		1	3	
041	182a041	BSD	QC01371	48991	Water	02-JUL-1999	18:38	1.0		1	3	
042	182a042	SAMPLE	140017-006	48991	Water	02-JUL-1999	19:18	1.0		1	3	
043	182a043	SAMPLE	140017-007	48991	Water	02-JUL-1999	19:58	1.0			3	
044	182a044	SAMPLE	140183-001	49037	Soil	02-JUL-1999	20:39	1.0			3	
045	182a045	X	dsl			02-JUL-1999	21:19	1.0			3	1
046	182a046	CCV	dsl			02-JUL-1999	21:59	1.0			3	1
047	182a047	CCV	mo			02-JUL-1999	22:39	1.0			3	2
048	182a048	CCV	jet			02-JUL-1999	23:20	1.0			3	3
049	182a049	SAMPLE	140119-007	48991	Water	03-JUL-1999	00:00	1.0		1	3	
050	182a050	SAMPLE	140195-001	49037	Soil	03-JUL-1999	00:40	1.0			3	
051	182a051	X	140036-003	49082		03-JUL-1999	01:20	1.0			3	
052	182a052	X	140036-004	49082		03-JUL-1999	02:01	1.0			3	
053	182a053	X	140036-005	49082		03-JUL-1999	02:41	1.0			3	
054	182a054	X	140036-006	49082		03-JUL-1999	03:21	1.0			3	
055	182a055	X	140036-007	49082		03-JUL-1999	04:02	1.0			3	
056	182a056	X	140036-008	49082		03-JUL-1999	04:42	1.0			3	
057	182a057	X	140036-009	49082		03-JUL-1999	05:23	1.0			3	
058	182a058	SAMPLE	140070-001	48991	Water	03-JUL-1999	06:03	200.0			3	
059	182a059	X	dsl			03-JUL-1999	06:43	1.0			3	1
060	182a060	CCV	dsl			03-JUL-1999	07:23	1.0			3	1
061	182a061	CCV	mo			03-JUL-1999	08:03	1.0			3	2
062	182a062	CCV	jet			03-JUL-1999	08:43	1.0			3	3
063	182a063	SAMPLE	140070-004	48991	Water	03-JUL-1999	09:23	1.0			3	
064	182a064	SAMPLE	140082-004	48991	Water	03-JUL-1999	10:03	1.0			3	
065	182a065	SAMPLE	140082-005	48991	Water	03-JUL-1999	10:44	1.0			3	
066	182a066	SAMPLE	140082-006	48991	Water	03-JUL-1999	11:24	1.0			3	
067	182a067	SAMPLE	140036-002 S	48968	Water	03-JUL-1999	12:04	200.0			3	
068	182a068	X	DSL			03-JUL-1999	12:45	1.0			3	1

Stds Used: 1=99WS7711 2=99WS7712 3=99WS7574 4=99WS7471

SEQUENCE SUMMARY FOR 140119 TEH Water
Curtis & Tompkins Laboratories

Sequence: 119263026 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 01-JUL-1999

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used
001	182a001	X	dsl			01-JUL-1999 15:46	1.0					1
002	182a002	CCV	dsl			01-JUL-1999 16:27	1.0	1.0			3	1
003	182a003	CCV	mo			01-JUL-1999 17:07	1.0	1.0			3	2
004	182a004	CCV	jet			01-JUL-1999 17:48	1.0	1.0			3	3
005	182a005	SAMPLE	140201-001	S	49037 Soil	01-JUL-1999 18:28	1.0	0.10	1		3	6:DSL;12=15356
006	182a006	SAMPLE	140201-002	S	49037 Soil	01-JUL-1999 19:09	1.0	0.10			3	
007	182a007	SAMPLE	140201-003	S	49037 Soil	01-JUL-1999 19:49	1.0	0.10			3	
008	182a008	SAMPLE	140201-004	S	49037 Soil	01-JUL-1999 20:29	1.0	0.10			3	
009	182a009	SAMPLE	140201-005	S	49037 Soil	01-JUL-1999 21:09	1.0	0.10			3	
010	182a010	SAMPLE	140201-006	S	49037 Soil	01-JUL-1999 21:50	1.0	0.10			3	
011	182a011	CCV	jp5			01-JUL-1999 22:30	1.0	1.0			3	4
012	182a012	X	ib			01-JUL-1999 23:10	1.0	1.0			3	
013	182a013	BLANK	QC01553		49037 Soil	01-JUL-1999 23:50	1.0	0.10	7		3	
014	182a014	BLANK	QC01553	S	49037 Soil	02-JUL-1999 00:30	1.0	0.10	7		3	
015	182a015	SAMPLE	140187-001		49037 Soil	02-JUL-1999 01:10	20.0	0.10	1		3	
016	182a016	MSS	140187-004		49037 Soil	02-JUL-1999 01:51	1.0	0.10	4		3	
017	182a017	X	dsl			02-JUL-1999 02:31	1.0	1.0			3	1
018	182a018	CCV	dsl			02-JUL-1999 03:11	1.0	1.0			3	1
019	182a019	CCV	mo			02-JUL-1999 03:52	1.0	1.0	1		3	2
020	182a020	CCV	jet			02-JUL-1999 04:32	1.0	1.0			3	3
021	182a021	CCV	jp5			02-JUL-1999 05:12	1.0	1.0			3	4
022	182a022	LCS	QC01554	S	49037 Soil	02-JUL-1999 05:52	1.0	0.10			3	
023	182a023	MS	QC01555		49037 Soil	02-JUL-1999 06:32	1.0	0.10		5	3	
024	182a024	MSD	QC01556		49037 Soil	02-JUL-1999 07:12	1.0	0.10		5	3	
025	182a025	SAMPLE	140119-007	S	48991 Water	02-JUL-1999 07:53	1.0	0.0050		1	3	
026	182a026	SAMPLE	140036-002	S	48968 Water	02-JUL-1999 08:33	1.0	0.0050			3	
027	182a027	SAMPLE	140201-001	S	49037 Soil	02-JUL-1999 09:14	50.0	0.10			3	
028	182a028	SAMPLE	140183-002		49037 Soil	02-JUL-1999 09:54	1.0	0.10			3	
029	182a029	SAMPLE	140183-003		49037 Soil	02-JUL-1999 10:34	20.0	0.10			3	
030	182a030	SAMPLE	140183-004		49037 Soil	02-JUL-1999 11:14	1.0	0.10			3	
031	182a031	SAMPLE	140183-005		49037 Soil	02-JUL-1999 11:54	1.0	0.10			3	
032	182a032	X	dsl			02-JUL-1999 12:35	1.0	1.0			3	1
033	182a033	CCV	dsl			02-JUL-1999 13:15	1.0	1.0			3	1
034	182a034	CCV	mo			02-JUL-1999 13:55	1.0	1.0			3	2

Stds Used: 1=99WS7711 2=99WS7712 3=99WS7574 4=99WS7471

SEQUENCE SUMMARY FOR 140119 TEH Water
Curtis & Tompkins Laboratories

Sequence: 169258344 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 28-JUN-1999

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used
001	179b001	X	dsl			28-JUN-1999 09:44	1.0					1
002	179b002	CCV	dsl			28-JUN-1999 10:27	1.0	1.0		3		1
003	179b003	CCV	jet			28-JUN-1999 11:10	1.0	1.0		3		2
004	179b004	X	ib			28-JUN-1999 11:51	1.0	1.0		3		
005	179b005	BLANK	QC99789	48611	Water	28-JUN-1999 12:34	1.0	0.0050	12	3		
006	179b006	BLANK	QC98840	48371	Water	28-JUN-1999 13:17	1.0	0.0050	12	3		
007	179b007	BLANK	QC99149	48450	Water	28-JUN-1999 14:00	1.0	0.0050	12	3		
008	179b008	SAMPLE	139831-001	48611	Water	28-JUN-1999 14:43	1.0	0.0050		3		
009	179b009	SAMPLE	139595-001	48450	Water	28-JUN-1999 15:26	1.0	0.005556		3		
010	179b010	SAMPLE	139595-002	48450	Water	28-JUN-1999 16:09	1.0	0.005208		3		
011	179b011	SAMPLE	139595-003	48450	Water	28-JUN-1999 16:52	1.0	0.0050		3		
012	179b012	SAMPLE	139594-001	48371	Water	28-JUN-1999 17:35	1.0	0.006757		3		
013	179b013	SAMPLE	139594-002	48371	Water	28-JUN-1999 18:19	1.0	0.006250		3		
014	179b014	SAMPLE	139594-003	48371	Water	28-JUN-1999 19:01	1.0	0.005102		3		
015	179b015	X	DSL			28-JUN-1999 19:44	1.0	1.0		3		1
016	179b016	CCV	DSL			28-JUN-1999 20:27	1.0	1.0		3		1
017	179b017	SAMPLE	139594-004	48371	Water	28-JUN-1999 21:10	1.0	0.006098		3		
018	179b018	SAMPLE	139594-005	48371	Water	28-JUN-1999 21:53	1.0	0.006494		3		
019	179b019	SAMPLE	139594-006	48371	Water	28-JUN-1999 22:35	1.0	0.005882		3		
020	179b020	SAMPLE	139593-002	48371	Water	28-JUN-1999 23:18	1.0	0.005102		3		
021	179b021	SAMPLE	139593-003	48371	Water	29-JUN-1999 00:01	1.0	0.005102		3		
022	179b022	SAMPLE	139593-004	48371	Water	29-JUN-1999 00:44	1.0	0.005102		3		
023	179b023	SAMPLE	139593-005	48371	Water	29-JUN-1999 01:27	1.0	0.005155		3		
024	179b024	SAMPLE	139593-006	48371	Water	29-JUN-1999 02:09	1.0	0.005208		3		
025	179b025	SAMPLE	140036-001	48960	Water	29-JUN-1999 02:52	1.0	0.0050	1	3		
026	179b026	CCV	dsl			29-JUN-1999 03:36	1.0	1.0		3		1
027	179b027	CCV	mo			29-JUN-1999 04:18	1.0	1.0		3		3
028	179b028	X	dsl			29-JUN-1999 05:01	1.0	1.0		3		1
029	179b029	BLANK	QC00850 S	48863	Water	29-JUN-1999 05:44	1.0	0.0050	6	3		
030	179b030	BLANK	QC01240 S	48960	Water	29-JUN-1999 06:27	1.0	0.0050	6	3		
031	179b031	SAMPLE	139735-001 S	48611	Water	29-JUN-1999 07:09	1.0	0.005102		3		
032	179b032	SAMPLE	139735-002 S	48611	Water	29-JUN-1999 07:52	1.0	0.005435		3		
033	179b033	SAMPLE	139962-001 S	48863	Water	29-JUN-1999 08:35	1.0	0.004808		3		
034	179b034	SAMPLE	139962-002 S	48863	Water	29-JUN-1999 09:17	1.0	0.004762		3		

Stds Used: 1=99WS7711 2=99WS7574 3=99WS7712

SEQUENCE SUMMARY FOR 140119 TEH Water
Curtis & Tompkins Laboratories

Sequence: 119263026 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 01-JUL-1999

#	Filename	Type	Samplenum	Batch Matrix Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>
069	182a069	CCV	DSL	03-JUL-1999 13:25	1.0	1.0	3	1	
070	182a070	CCV	MO	03-JUL-1999 14:05	1.0	1.0	3	2	
071	182a071	CCV	JET	03-JUL-1999 14:45	1.0	1.0	3	3	

Stds Used: 1-99WS7711 2-99WS7712 3-99WS7574 4-99WS7471

SEQUENCE SUMMARY FOR 140119 TEH Water
Curtis & Tompkins Laboratories

Sequence: 169262144 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 01-JUL-1999

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used
001	182b001	X	primer			01-JUL-1999 00:22	1.0					
002	182b002	CCV	dsl			01-JUL-1999 01:04	1.0	1.0			3	1
003	182b003	CCV	mo			01-JUL-1999 02:57	1.0					2
004	182b004	CCV	jet			01-JUL-1999 03:40	1.0	1.0			3	3
005	182b005	SAMPLE	140002-001	48991	Water	01-JUL-1999 04:22	1.0	0.0050		1	3	
006	182b006	CCV	mo			01-JUL-1999 09:56	1.0	1.0			3	2
007	182b007	SAMPLE	140002-001	48991	Water	01-JUL-1999 10:57	1.0	0.0050		1	3	
008	182b008	SAMPLE	140036-001	48960	Water	01-JUL-1999 11:40	1.0	0.0050			3	
009	182b009	SAMPLE	140176-001	49020	Soil	01-JUL-1999 12:23	2.0	1.0			3	
010	182b010	SAMPLE	140134-003	48986	Soil	01-JUL-1999 13:06	2.0	1.0			3	
011	182b011	SAMPLE	140036-002	48968	Water	01-JUL-1999 13:49	200.0	0.0050			3	
012	182b012	CCV	dsl			01-JUL-1999 14:59	1.0	1.0			3	1
013	182b013	CCV	jet			01-JUL-1999 15:42	1.0	1.0			3	3
014	182b014	CCV	mo			01-JUL-1999 16:59	1.0	1.0	1		3	2
015	182b015	SAMPLE	140017-006	48991	Water	01-JUL-1999 17:42	1.0	0.004717		1	3	
016	182b016	SAMPLE	140017-007	48991	Water	01-JUL-1999 18:25	1.0	0.005208		1	3	
017	182b017	X	ib			01-JUL-1999 19:08	1.0	1.0			3	
018	182b018	BLANK	QC01369	48991	Water	01-JUL-1999 19:50	1.0					
019	182b019	SAMPLE	140036-003	48991	Water	02-JUL-1999 01:21	1.0	0.004762		1	3	
020	182b020	SAMPLE	140036-004	48991	Water	02-JUL-1999 02:04	1.0	0.0050			3	
021	182b021	SAMPLE	140036-005	48991	Water	02-JUL-1999 02:47	1.0	0.004762			3	
022	182b022	SAMPLE	140036-006	48991	Water	02-JUL-1999 03:30	1.0	0.004762			3	
023	182b023	SAMPLE	140036-007	48991	Water	02-JUL-1999 04:13	1.0	0.004808			3	
024	182b024	SAMPLE	140036-008	48991	Water	02-JUL-1999 04:55	1.0	0.004762			3	
025	182b025	SAMPLE	140036-009	48991	Water	02-JUL-1999 05:38	1.0	0.004762			3	
026	182b026	SAMPLE	140070-001	48991	Water	02-JUL-1999 06:20	1.0	0.004762	2		3	
027	182b027	SAMPLE	140070-004	48991	Water	02-JUL-1999 07:03	1.0	0.004854	3		3	
028	182b028	CCV	dsl			02-JUL-1999 07:45	1.0	1.0			3	1
029	182b029	CCV	dsl			02-JUL-1999 08:23	1.0	1.0				1
030	182b030	X	acetone			02-JUL-1999 11:36	1.0					

Stds Used: 1=99WS7711 2=99WS7712 3=99WS7574

38

SEQUENCE SUMMARY FOR 140119 TEH Water
Curtis & Tompkins Laboratories

Sequence: 169258344 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 28-JUN-1999

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used
035	179b035	SAMPLE	139962-004 S	48863	Water	29-JUN-1999 10:00	1.0	0.004762			3	
036	179b036	BS	QC00851 S	48863	Water	29-JUN-1999 10:43	1.0	0.0050			3	
037	179b037	BSD	QC00852 S	48863	Water	29-JUN-1999 11:26	1.0	0.0050			3	
038	179b038	X	dsl			29-JUN-1999 12:09	1.0					1
039	179b039	CCV	dsl			29-JUN-1999 12:52	1.0	1.0			3	1
040	179b040	CCV	mo			29-JUN-1999 13:34	1.0	1.0			3	3
041	179b041	BS	QC01241 S	48960	Water	29-JUN-1999 14:17	1.0	0.0050			3	
042	179b042	BSD	QC01242 S	48960	Water	29-JUN-1999 15:00	1.0	0.0050			3	
043	179b043	SAMPLE	140119-002 S	48960	Water	29-JUN-1999 15:43	1.0	0.0050			3	
044	179b044	SAMPLE	140119-003 S	48960	Water	29-JUN-1999 16:26	1.0	0.0050			3	
045	179b045	SAMPLE	140119-004 S	48960	Water	29-JUN-1999 17:09	1.0	0.0050			3	
046	179b046	SAMPLE	140119-005 S	48960	Water	29-JUN-1999 17:53	1.0	0.0050			3	
047	179b047	SAMPLE	140119-006 S	48960	Water	29-JUN-1999 18:36	1.0	0.0050			3	
048	179b048	CCV	dsl			29-JUN-1999 19:19	1.0	1.0			3	1
049	179b049	CCV	dsl			29-JUN-1999 20:02	1.0					1
050	179b050	CCV	jet			29-JUN-1999 20:45	1.0	1.0			3	2
051	179b051	MSS	140176-001	49020	Soil	29-JUN-1999 21:28	1.0	1.0	5		3	2:JETA:1=4066
052	179b052	SAMPLE	140199-001	49020	Soil	29-JUN-1999 22:10	1.0	1.0			3	
053	179b053	SAMPLE	140200-001	49020	Soil	29-JUN-1999 22:53	1.0	1.0			3	
054	179b054	LCS	QC01486	49020	Soil	29-JUN-1999 23:36	1.0	1.0			3	
055	179b055	BLANK	QC01485	49020	Soil	30-JUN-1999 00:19	1.0	1.0	12		3	
056	179b056	MS	QC01487	49020	Soil	30-JUN-1999 01:02	1.0	1.0			3	2:JETA:1=4633
057	179b057	MSD	QC01488	49020	Soil	30-JUN-1999 01:44	1.0	1.0			3	2:JETA:1=5009
058	179b058	X	dsl			30-JUN-1999 02:27	1.0	1.0			3	1
059	179b059	CCV	dsl			30-JUN-1999 03:10	1.0	1.0			3	1
060	179b060	CCV	jet			30-JUN-1999 03:54	1.0	1.0			3	2
061	179b061	CCV	mo			30-JUN-1999 04:37	1.0	1.0	1		3	3
062	179b062	BLANK	QC98840	48371	Water	30-JUN-1999 09:33	1.0					
063	179b063	BLANK	QC99149	48450	Water	30-JUN-1999 10:15	1.0					
064	179b064	CCV	dsl			30-JUN-1999 10:58	1.0	1.0			3	1
065	179b065	SAMPLE	139629-002	48450	Water	30-JUN-1999 11:41	1.0	0.005319		1	3	
066	179b066	CCV	dsl			30-JUN-1999 12:24	1.0	1.0			3	1

Stds Used: 1=99WS7711 2=99WS7574 3=99WS7712

ORGANIC EXTRACTION RECORD

06/27/99 10:21:47

Batch Number : 48960
 Date Extracted : 26-JUN-99
 Extracted By : Anne R. Sommer
 Prep Method : 3520

Analysis: TEH
 Bgroup : N/A
 Units : ml
 Clean-up:

Surrogate ID : 99WS7631C
 Internal Std. ID:
 B/M Spike ID : 99WS7488B

Sample No.	Type	Client	Matrx	Init	U	Final	Prep	Clean	pH	Analysis	Comments
			W/V			Vol	D.F.	D.F.			
140036-001		ERM-West	Water	500	ml	2.5	.005	1	7	TEH	
140119-002		Harding Lawson Associates	Water	500	ml	2.5	.005	1	7	TEH	sg sg sg sg sg sg sg sg
140119-003		Harding Lawson Associates	Water	500	ml	2.5	.005	1	7	TEH	
140119-004		Harding Lawson Associates	Water	500	ml	2.5	.005	1	7	TEH	
140119-005		Harding Lawson Associates	Water	500	ml	2.5	.005	1	7	TEH	
140119-006		Harding Lawson Associates	Water	500	ml	2.5	.005	1	7	TEH	
140119-007		Harding Lawson Associates	Water	500	ml	2.5	.005	1	7	TEH	
QC01240	BLANK		Water	500	ml	2.5	.005	1		TEH	
QC01241	BS		Water	500	ml	2.5	.005	1		TEH	
QC01242	BSD		Water	500	ml	2.5	.005	1		TEH	

revised → 140119-007 - Entire sample lost

Prep Chemist: Ann R. Sommer Reviewed By: Carroll Date: 6/18/99

Relinquished By: Blair Owe Received By: Carroll Date: 6/28/99

139

LIMS Batch No: 48960
 LIMS Analysis: TEH
 Extracted by: ARS
 Date Extracted: 6/26/99

Extraction Method:
 mod. EPA 3510 sep. funnel
 mod. EPA 3520 cont. L/L

Sample ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Comments
140036-001D	500	7	2.5	Sg of hit
140119-002A		7		Sg
-003A		7		Sg
-004A		7		
-005A		7		
-006A		7		
-007A		7	N/A	
Blank Q.C. 01240		NA	2.5	Sg
BS 41				
BSD 42				
* Lost entire sample before concentration (receiver broke)				

Rec
6/28/99

500 uL of surrogate solution TEH_{Sur} was added to all samples
 0.5 mL of D-SPIKE matrix spiking solution was added to all spikes
 pH of all samples adjusted to pH ≤ 2 with H₂SO₄
 Samples were extracted with approximately 500 mL of CH₂Cl₂
 Extraction Start Time: _____
 Extraction End Time: _____
 Samples were extracted 3 times with 60 mL of CH₂Cl₂
 Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to volumes as noted above

Mfg & Lot # / LIMS # / Time	Date/Initials
99W57631(C)	ARS 6/26/99
99W57488(B)	
FT Baker No 2060	
EM 39104	
17:15	
11:15	ARS 6/27/99
NA	NA
EM 127189 / R0054	Bo 6/26/99
✓	11:10

Ann R. Sommer 6/26/99
 Extraction Chemist Date

Car. Miller 6-28-99
 Reviewed by Date

ORGANIC EXTRACTION RECORD

06/28/99 18:49:56

Batch Number : 48991
 Date Extracted : 28-JUN-99
 Extracted By : Beth Cortright
 Prep Method : 3520

Analysis: TEH
 Bgroup : N/A
 Units : ml
 Clean-up:

Surrogate ID : 99ws7631c
 Internal Std. ID:
 B/M Spike ID : 99ws7488b

Sample No.	Type	Client	Matrx	Init W/V	U	Final Vol	Prep D.F.	Clean pH D.F.	Analysis	Comments
140002-001	- dsl, mo, ret - (AN)	Burns & McDonnell	Water	500	ml	2.5	.005	1 7	TEH	
140017-006	- dsl, jet	U.S. Army Corps of Engineers	Water	1060	ml	5	.004717	1 5	TEH	
140017-007	- dsl, jet	U.S. Army Corps of Engineers	Water	960	ml	5	.005208	1 6	TEH	
140036-003		ERM-West	Water	1050	ml	5	.004762	1 7	TEH	
140036-004		ERM-West	Water	500	ml	2.5	.005	1 7	TEH	
140036-005	- dsl, mo?	ERM-West	Water	1050	ml	5	.004762	1 7	TEH	
140036-006		ERM-West	Water	1050	ml	5	.004762	1 7	TEH	
140036-007		ERM-West	Water	1040	ml	5	.004808	1 7	TEH	
140036-008		ERM-West	Water	1050	ml	5	.004762	1 7	TEH	
140036-009		ERM-West	Water	1050	ml	5	.004762	1 7	TEH	
140070-001	- dsl, mo 10-22 22-36	ERM-West	Water	1050	ml	5	.004762	1 7	TEH	strong odor
140070-004		ERM-West	Water	1030	ml	5	.004854	1 7	TEH	strong odor
140082-004		U.S. Army Corps of Engineers	Water	980	ml	5	.005102	1 7	TEH	
140082-005	- dsl, jet	U.S. Army Corps of Engineers	Water	970	ml	5	.005155	1 7	TEH	
140082-006		U.S. Army Corps of Engineers	Water	990	ml	5	.005051	1 7	TEH	
140119-007		Harding Lawson Associates	Water	500	ml	2.5	.005	1 7	TEH	
QC01369	BLANK		Water	1000	ml	5	.005	1	TEH	
QC01370	BS		Water	1000	ml	5	.005	1	TEH	
QC01371	BSD		Water	1000	ml	5	.005	1	TEH	

37

Prep Chemist: Beth Cortright Reviewed By: J. Baber Date: 6/29/99

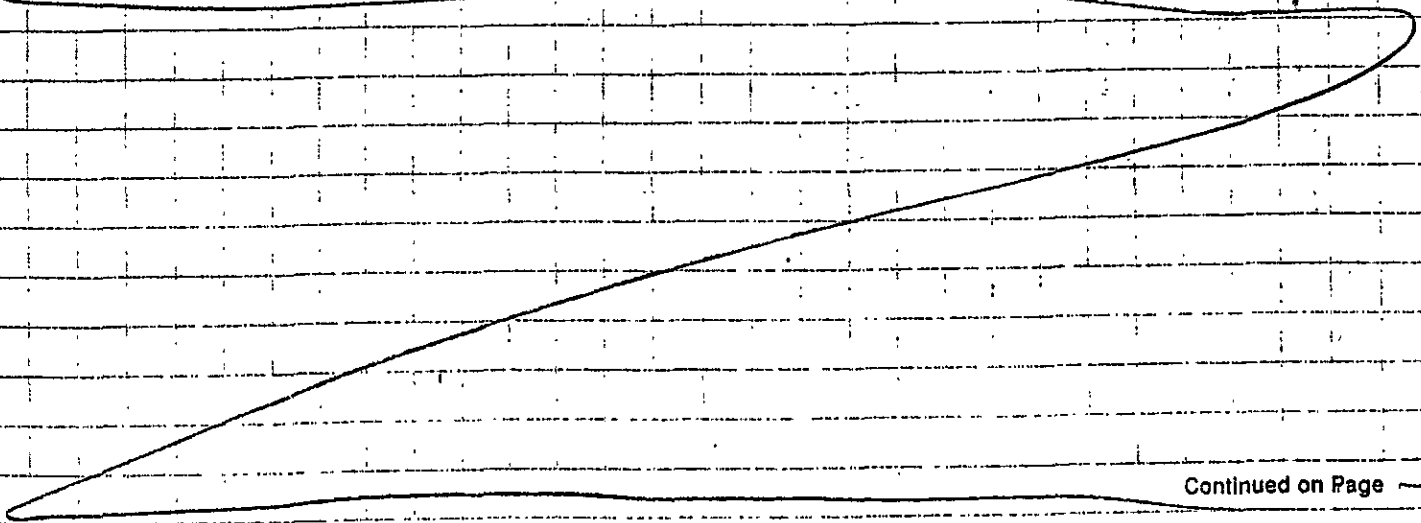
Relinquished By: _____ Received By: _____ Date: _____

by B0 6/28/99

EPA Method 3630

Sample ID #	Initial vol (mL)	Final Vol (mL)	Batch #
139735 - 001	1.0		48611
-002			
139962 - 001			48863
-002			
-004			
BLANK GC 00850			
BS 1			
BSB 2			
140036 - 001			48960
140119 - 002			
-003			
-004			
-005			
-006			
BLANK GC 01240			
BS 1			
BSD 2			

- 1.0g Silica Gel Cartridges (B7J) 2199 were baked @ 140°C for at least 4 hrs.
- Cartridges were rinsed w/ 3x's volume w/ CH₂Cl₂ (EM 39104)
- 1.0 mL extract added; visually monitored for breakthrough
- Eluted w/ 2.0 mL CH₂Cl₂ and collected in receivers
- Concentrated to 1.0 mL w/ stream of N₂



Continued on Page _____

Read and Understood By

Blin Orma
Signed

6/28/99
Date

[Signature]
Signed

141
6/28/99
Date