H6D030177 Analytical Report **1**

Sample Receipt Documentation **14**

Method 0040 Condensates **19**
Raw Analytical Data 20
Calibration Data 37
Quality Assurance Data 101
Miscellaneous Data 117

Sample Receipt Documentation **122**

Total Number of Pages **126**

SEVERN TRENT STL

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921

Tel: 865 291 3000 Fax: 865 584 4315
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates 0040

Lot #: H6D030177

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

April 12, 2006

ANALYTICAL METHODS SUMMARY

H6D030177

PARAMETER	ANALYTICAL METHOD
Unspeciated Volatile Organics	EPA-18 0040 COND

References:

EPA-18 "GUIDANCE FOR TOTAL ORGANICS," EPA/600/R-96/033, MARCH 1996.

SAMPLE SUMMARY

H6D030177

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2HDX	001	G-2941-R1-METHOD 0040 TRAIN CONDENSATE	03/28/06	
H2HD7	002	G-2943-R1-METHOD 0040 TRAIN CONDENSATE TB	03/28/06	
H2HD8	003	G-3053-R2-METHOD 0040 TRAIN CONDENSATE	03/29/06	
H2HEA	004	G-3137-R3-METHOD 0040 TRAIN CONDENSATE	03/30/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030177

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

One of the two vials each for samples G-3053 and G-3137 was received empty.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

The method 0040 sampling train condensate samples were analyzed for total unspeciated mass in the volatile range using STL Knoxville standard operating procedure KNOX-GC-0016, based on the following methods:

- SW-846 8015B, "Nonhalogenated Organics Using GC/FID"
- SW-846 5030B, "Purge and Trap for Aqueous Samples"
- U.S. EPA "Guidance for Total Organics" (1996)

Gas chromatography is used to determine the concentration of total volatile unspeciated mass in the samples. A gas chromatograph with a flame ionization detector (GC/FID) is used for the detection, identification and quantification of the volatile organic target analytes. Samples are spiked with an internal standard (4-bromofluorobenzene) and a

PROJECT NARRATIVE
H6D030177

surrogate compound (n-octane), sparged in a purge-and-trap sampler and the volatile analytes are desorbed to the inlet of the gas chromatograph. This procedure is non-specific in that all volatile organic compounds are detected that elute between the solvent peak and n-heptane, and cause flame ionization detector response. This range of elution approximately corresponds to the boiling range of 0°C to 100°C, or carbon numbers C_4 (n-butane) through C_7 (n-heptane). The surrogate compound is used to quantify sample recovery.

The preparation and analysis of method blanks is used to evaluate background response. Results for the C_4 range are blank corrected by subtraction of the laboratory method blank result. The preparation and analysis of laboratory control samples are used to monitor test method performance.

Results are calculated from peak areas as compared to five point calibration curves. Sample results are calculated using the following equation:

$$\text{Result boiling range i}, ug/\text{L} = (Raw\,Concentration\,of\,boiling\,range\ i, ug/L) * (Dilution\,Factor)$$

Note: Results for the C_4 range are blank corrected in order to remove peaks associated with the tetraglyme solvent used during analysis.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2941-R1-METHOD 0040 TRAIN CONDENSATE

GC Volatiles

Lot-Sample #...: H6D030177-001 **Work Order #...:** H2HDX1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1 **Method.....:** EPA-18 0040 COND

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C4 (0 to 30 deg C)	ND	1.0	ug/L	1.0
C5 (30 to 60 deg C)	**0.58 J,B**	**1.0**	**ug/L**	**0.10**
C6 (60 to 90 deg C)	**0.74 J**	**1.0**	**ug/L**	**0.10**
C7 (90 to 98 deg C)	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	102	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2943-R1-METHOD 0040 TRAIN CONDENSATE TB

GC Volatiles

Lot-Sample #...: H6D030177-002 **Work Order #...:** H2HD71AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1 **Method.....:** EPA-18 0040 COND

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C4 (0 to 30 deg C)	ND	1.0	ug/L	1.0
C5 (30 to 60 deg C)	**0.65 J,B**	**1.0**	**ug/L**	**0.10**
C6 (60 to 90 deg C)	**2.5**	**1.0**	**ug/L**	**0.10**
C7 (90 to 98 deg C)	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	100	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3053-R2-METHOD 0040 TRAIN CONDENSATE

GC Volatiles

Lot-Sample #...: H6D030177-003 **Work Order #...:** H2HD81AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1 **Method.....:** EPA-18 0040 COND

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C4 (0 to 30 deg C)	ND	1.0	ug/L	1.0
C5 (30 to 60 deg C)	**0.33 J,B**	**1.0**	**ug/L**	**0.10**
C6 (60 to 90 deg C)	**0.87 J**	**1.0**	**ug/L**	**0.10**
C7 (90 to 98 deg C)	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	99	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3137-R3-METHOD 0040 TRAIN CONDENSATE

GC Volatiles

Lot-Sample #...: H6D030177-004 **Work Order #...:** H2HEA1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1 **Method.....:** EPA-18 0040 COND

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C4 (0 to 30 deg C)	ND	1.0	ug/L	1.0
C5 (30 to 60 deg C)	**0.30 J,B**	**1.0**	**ug/L**	**0.10**
C6 (60 to 90 deg C)	**0.93 J**	**1.0**	**ug/L**	**0.10**
C7 (90 to 98 deg C)	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	100	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: H6D030177 **Work Order #...:** H2LW61AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-081

Prep Date.....: 04/05/06
Analysis Date..: 04/05/06 **Prep Batch #...:** 6095081
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C4 (0 to 30 deg C)	ND	1.0	ug/L	EPA-18 0040 COND
C5 (30 to 60 deg C)	**0.31 J**	**1.0**	**ug/L**	**EPA-18 0040 COND**
C6 (60 to 90 deg C)	ND	1.0	ug/L	EPA-18 0040 COND
C7 (90 to 98 deg C)	ND	1.0	ug/L	EPA-18 0040 COND

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	97	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: H6D030177 **Work Order #...:** H2LW61AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-081 H2LW61AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
C5 (30 to 60 deg C)	**106**	**(50 - 150)**			**EPA-18 0040 COND**
	100	**(50 - 150)**	**6.2**	**(0-35)**	**EPA-18 0040 COND**
C6 (60 to 90 deg C)	**105**	**(50 - 150)**			**EPA-18 0040 COND**
	104	**(50 - 150)**	**0.88**	**(0-35)**	**EPA-18 0040 COND**
C7 (90 to 98 deg C)	**102**	**(50 - 150)**			**EPA-18 0040 COND**
	101	**(50 - 150)**	**1.1**	**(0-35)**	**EPA-18 0040 COND**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	98	(50 - 150)
	98	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: H6D030177 **Work Order #...:** H2LW61AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-081 H2LW61AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
C5 (30 to 60 deg C)	**25.0**	**26.5**	**ug/L**	**106**		**EPA-18 0040 COND**
	25.0	**24.9**	**ug/L**	**100**	**6.2**	**EPA-18 0040 COND**
C6 (60 to 90 deg C)	**25.0**	**26.2**	**ug/L**	**105**		**EPA-18 0040 COND**
	25.0	**26.0**	**ug/L**	**104**	**0.88**	**EPA-18 0040 COND**
C7 (90 to 98 deg C)	**25.0**	**25.5**	**ug/L**	**102**		**EPA-18 0040 COND**
	25.0	**25.2**	**ug/L**	**101**	**1.1**	**EPA-18 0040 COND**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	98	(50 - 150)
	98	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Receipt Documentation

Request for Analysis/Chain-of-Custody – RFA/COC #019 [Method 0040 Condensates]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

STL Knoxville Lot Number: H6D030177
STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:	**Westates Carbon CPT**
STL Knoxville Project Number:	142541
STL Contact:	Ms. Patti Carswell (865) 291-3010
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080

Laboratory Deliverable Turnaround Requirements:	
Analytical Due Date: (Review-Released Data)	14 Days from Lab Receipt
Data Package Due Date:	21 Days from Lab Receipt
Laboratory Destination:	STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000
Courier:	Federal Express

Analytical Testing QC Requirements:
The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows:
"MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate,
"DUP" = Duplicate, and "PDS" = Post Digestion Spike

Project Deliverables:
Report analytical results on R-02 Reports and in data packages.
Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.

Holding Time Requirements:

Volatiles (Method 0040 Condensates)	14 Days to Analysis.

Field Sample No./ Sample Coding ID	**Sample Collection Date**	**Project QC Require-ments**	**Sample Bottle/ Container**	**Sample Type/Analysis**	**Analytical Specifications**
G-2941-R1-Method 0040 Train Condensate	3-28-06		2 X 40 mL VOA Vials	**Condensate Run #1** Method 0040 Train Volatile Unspeciated Mass Analysis	Analyze this sample for volatile unspeciated mass using direct gas injection and flame ionization detection (GC/FID). Report each alkane group by total response within each boiling point window from C_4-C_7. Report each alkane group as ppb of the corresponding alkane group in a data package.
G-2942-R1-Method 0040 Blank Train Condensate	Did Not Collect	**Blank Train**	40 mL VOA Vial	**Condensate Run #1** Method 0040 Blank Train Volatile Unspeciated Mass Analysis	Analyze this sample for volatile unspeciated mass using direct gas injection and flame ionization detection (GC/FID). Report each alkane group by total response within each boiling point window from C_4-C_7. Report each alkane group as ppb of the corresponding alkane group in a data package.
G-2943-R1-Method 0040 Train Condensate TB	3-28-06	**Trip Blank**	40 mL VOA Vial	**Condensate Trip Blank Run #1** Method 0040 Train Volatile Unspeciated Mass Analysis	Analyze this sample for volatile unspeciated mass using direct gas injection and flame ionization detection (GC/FID). Report each alkane group by total response within each boiling point window from C_4-C_7. Report each alkane group as ppb of the corresponding alkane group in a data package.

Request for Analysis/Chain-of-Custody – RFA/COC #019 [Method 0040 Condensates]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3053-R2-Method 0040 Train Condensate	3-29-06		2 X 40 mL VOA Vials	**Condensate Run #2** Method 0040 Train Volatile Unspeciated Mass Analysis	Analyze this sample for volatile unspeciated mass using direct gas injection and flame ionization detection (GC/FID). Report each alkane group by total response within each boiling point window from C_4-C_7. Report each alkane group as ppb of the corresponding alkane group in a data package.
G-3137-R3-Method 0040 Train Condensate	3-30-06		2 X 40 mL VOA Vials	**Condensate Run #3** Method 0040 Train Volatile Unspeciated Mass Analysis	Analyze this sample for volatile unspeciated mass using direct gas injection and flame ionization detection (GC/FID). Report each alkane group by total response within each boiling point window from C_4-C_7. Report each alkane group as ppb of the corresponding alkane group in a data package.

Request for Analysis/Chain-of-Custody – RFA/COC #019 [Method 0040 Condensates]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

H6D030177

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:	Comments (Please write "NONE" if no comment applicable)
(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.	NONE
(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:	6°C
(3) Record any apparent sample loss/breakage.	NONE
(4) Record any unidentified samples transported with this shipment of samples:	NONE
(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):	HAND DELIVERED, NO CUSTODY SEALS

Custody Transfer:

	Name	Company	Date/Time
Relinquished By:			
Accepted By:	Benjamin K. Vanderson	STL	4-2-06 16:25
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: STL KNOXVILLE **Project:** WESTATES CARBON CPT **Lot Number:** H6D030177

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	N/A, 6A, G-3053 AND G-3137 1 OF 2 VIALS RECEIVED EMPTY.
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?		✓		☑ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?	✓			☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☑ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?		✓			

Quote #: 64351 PM Instructions: _____

Sample Receiving Associate: [signature] Date: _____

QA026R18.doc, 1/30/06

Method 0040 Condensates

Raw Analytical Data

STL Knoxville - ACS

Client Sample ID: G-2941-R1-METHOD 0040 TRAIN CONDENSATE

GC Volatiles

Lot-Sample #...: H6D030177-001 **Work Order #...:** H2HDX1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1 **Method.....:** EPA-18 0040 COND

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C4 (0 to 30 deg C)	ND	1.0	ug/L	1.0
C5 (30 to 60 deg C)	**0.58 J,B**	**1.0**	**ug/L**	**0.10**
C6 (60 to 90 deg C)	**0.74 J**	**1.0**	**ug/L**	**0.10**
C7 (90 to 98 deg C)	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	102	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Software Version: 4.1<2F12>
Sample Name : H2HDX1AA
Sample Number: 7
Operator :

Time : 4/5/2006 01:16 PM
Study : H6D030177-001

Instrument : COND
AutoSampler :
Rack/Vial : 0/0

Channel : A A/D mV Range : 10000

Interface Serial # : 2100574715 Data Acquisition Time: 4/5/2006 12:54 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0405007.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0405007.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\6D030177.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name		Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	ND	~~31.1719~~	31.1719	124.6876	124.6876	15717306.82		4.84
	5.030	BP 30 TO 60 (C5)		0.5810	0.5810	2.3242	2.3242	1120366.03		6.41
	7.875	BP 60 TO 90 (C6)		0.7389	0.7389	2.9557	2.9557	1085448.50		5.09
	10.075	BP 90 to 98 (C7)	ND	-0.1163	-0.1163	-0.4652	-0.4652	259110.00		4.22
22	11.829	Toluene		0.0000	0.0000	0.0000	0.0000	43517.00	*BB	3.39
24	12.902	n-Octane (SURR)		25.5330	25.5330	102.1320 ✓	102.1320	15011337.00	*BB	3.50
29	15.338	4-Bromofluorobenzene		100.0000	100.0000	400.0000	400.0000	27226685.66	*VB	3.05
Solvent Blank Conc. 31.6471				157.9085	157.9085	631.6342	631.6342	60463771.02		

31.1719 - 31.6471 = ND reported JMH 4-5-06

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	1.999		0.0000	0.0000	0.0000	0.0000	27716.00	BB	5.62
2	2.261		0.0000	0.0000	0.0000	0.0000	16847.00	*BB	1.58
3	2.338		0.0000	0.0000	0.0000	0.0000	9145.93	*BV	-3.22
4	2.398		0.0000	0.0000	0.0000	0.0000	3156805.05	*VV	2.65
5	2.510		0.0000	0.0000	0.0000	0.0000	2116839.07	*VV	8.91
6	2.717		0.0000	0.0000	0.0000	0.0000	450704.72	*VV	3.69
7	2.833		0.0000	0.0000	0.0000	0.0000	8675041.98	*VV	5.59
8	3.482		0.0000	0.0000	0.0000	0.0000	1264207.08	*VV	9.72
			0.0000	0.0000	0.0000	0.0000	15717306.82		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
9	3.947		0.0000	0.0000	0.0000	0.0000	555391.38	*VV	6.33
10	4.148		0.0000	0.0000	0.0000	0.0000	69584.17	*VV	4.92
11	4.300	Methylene chloride	0.0000	0.0000	0.0000	0.0000	332891.49	*VB	7.69
12	5.505		0.0000	0.0000	0.0000	0.0000	109444.00	*BB	5.87
13	5.839		0.0000	0.0000	0.0000	0.0000	53055.00	*BB	4.83
			0.0000	0.0000	0.0000	0.0000	1120366.03		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
14	6.871		0.0000	0.0000	0.0000	0.0000	470680.00	*BB	7.05
15	7.527		0.0000	0.0000	0.0000	0.0000	33090.50	*BB	4.58
16	8.275		0.0000	0.0000	0.0000	0.0000	208404.50	*BB	4.23
17	8.611		0.0000	0.0000	0.0000	0.0000	373273.50	*BB	4.15
			0.0000	0.0000	0.0000	0.0000	1085448.50		

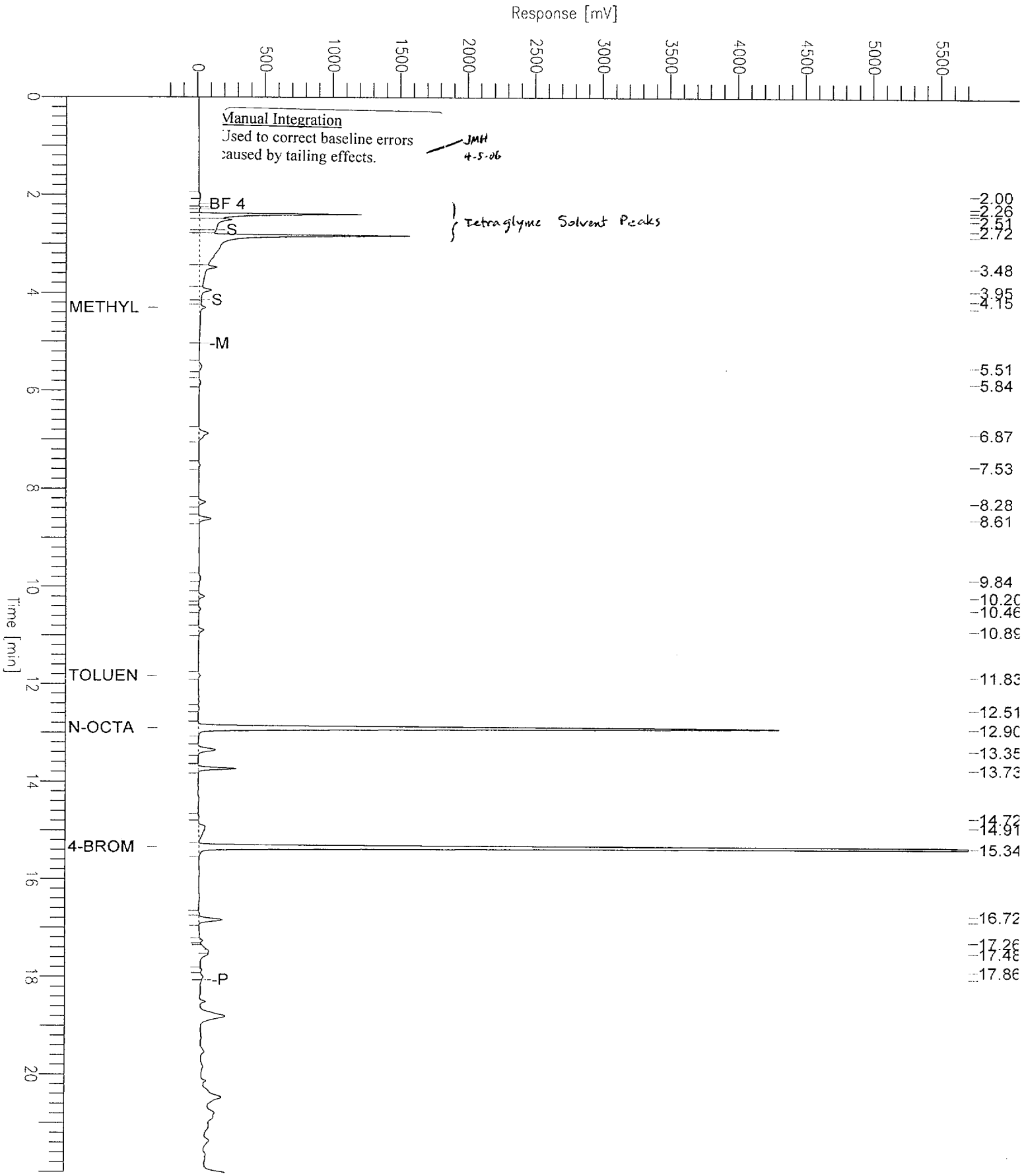
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
18	9.839		0.0000	0.0000	0.0000	0.0000	43996.00	*BB	6.46
19	10.197		0.0000	0.0000	0.0000	0.0000	167096.00	*BB	4.09
20	10.458		0.0000	0.0000	0.0000	0.0000	48018.00	*BB	3.50
			0.0000	0.0000	0.0000	0.0000	259110.00		

Chromatogram

Sample Name : H2HDX1AA
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0405007.raw
Method : C0012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 7 Page 1 of 1
Date : 4/5/2006 01:16 PM
Time of Injection: 4/5/2006 12:54 PM
Low Point : -290.25 mV High Point : 5709.75 mV
Plot Scale: 6000.0 mV



STL Knoxville - ACS

Client Sample ID: G-2943-R1-METHOD 0040 TRAIN CONDENSATE TB

GC Volatiles

Lot-Sample #...: H6D030177-002 **Work Order #...:** H2HD71AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1 **Method.....:** EPA-18 0040 COND

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C4 (0 to 30 deg C)	ND	1.0	ug/L	1.0
C5 (30 to 60 deg C)	**0.65 J,B**	**1.0**	**ug/L**	**0.10**
C6 (60 to 90 deg C)	**2.5**	**1.0**	**ug/L**	**0.10**
C7 (90 to 98 deg C)	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	100	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Software Version: 4.1<2F12>
Sample Name : H2HD71AA Time : 4/5/2006 01:53 PM
Sample Number: 8 Study : H6D030177-002
Operator :

Instrument : COND Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2100574715 Data Acquisition Time: 4/5/2006 01:31 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0405008.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0405008.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\6D030177.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name		Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	0.5901	~~32.2372~~	32.2372	128.9487	128.9487	16499323.87		4.54
	5.030	BP 30 TO 60 (C5)		0.6460	0.6460	2.5839	2.5839	1172977.58		6.03
	7.875	BP 60 TO 90 (C6)		2.4958	2.4958	9.9833	9.9833	2160749.00		4.30
	10.075	BP 90 to 98 (C7)		0.0519	0.0519	0.2076	0.2076	363347.50		4.58
23	11.820	Toluene		0.0000	0.0000	0.0000	0.0000	65462.00	*BB	3.45
26	12.894	n-Octane (SURR)		25.0736	25.0736	100.2944	✓100.2944	15009075.00	*BB	3.51
30	15.329	4-Bromofluorobenzene		100.0000	100.0000	400.0000	400.0000	27714466.50	*BB	3.03
	Solvent Blank Conc. 31.6471			160.5045	160.5045	642.0178	642.0178	62985401.45		

32.2372 - 31.6471 = 0.5901 reported JMH 4-5-06

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	2.024		0.0000	0.0000	0.0000	0.0000	28494.50	BB	7.14
2	2.267		0.0000	0.0000	0.0000	0.0000	17388.50	*BB	1.41
3	2.350		0.0000	0.0000	0.0000	0.0000	16274.81	*BV	-3.86
4	2.405		0.0000	0.0000	0.0000	0.0000	3414303.36	*VV	2.48
5	2.519		0.0000	0.0000	0.0000	0.0000	1977612.89	*VV	8.64
6	2.717		0.0000	0.0000	0.0000	0.0000	516129.07	*VV	4.18
7	2.840		0.0000	0.0000	0.0000	0.0000	9303134.72	*VV	5.20
8	3.489		0.0000	0.0000	0.0000	0.0000	1225986.01	*VV	12.35
			0.0000	0.0000	0.0000	0.0000	16499323.87		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
9	3.953		0.0000	0.0000	0.0000	0.0000	571032.43	*VV	6.19
10	4.148		0.0000	0.0000	0.0000	0.0000	77424.67	*VV	5.26
11	4.304	Methylene chloride	0.0000	0.0000	0.0000	0.0000	387258.48	*VB	6.23
12	5.507		0.0000	0.0000	0.0000	0.0000	95384.00	*BB	5.74
13	5.845		0.0000	0.0000	0.0000	0.0000	41878.00	*BB	4.81
			0.0000	0.0000	0.0000	0.0000	1172977.58		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
14	6.873		0.0000	0.0000	0.0000	0.0000	291469.31	*BV	4.59
15	6.951		0.0000	0.0000	0.0000	0.0000	410169.69	*VB	4.66
16	7.522		0.0000	0.0000	0.0000	0.0000	31292.00	*BB	4.36
17	8.274		0.0000	0.0000	0.0000	0.0000	219527.00	*BB	4.16
18	8.610		0.0000	0.0000	0.0000	0.0000	1208291.00	*BB	4.15
			0.0000	0.0000	0.0000	0.0000	2160749.00		

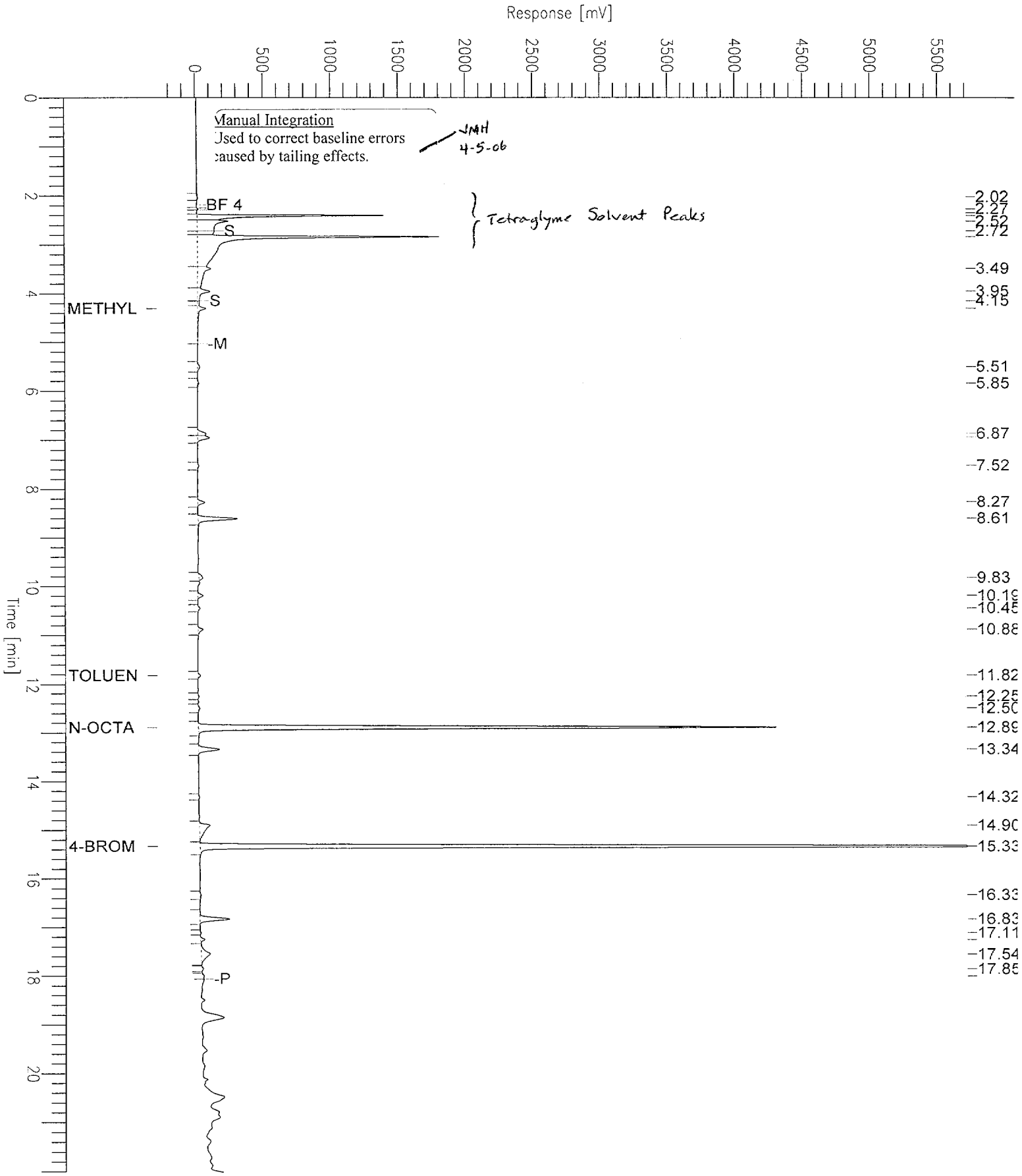
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
19	9.827		0.0000	0.0000	0.0000	0.0000	162086.00	*BB	5.88
20	10.191		0.0000	0.0000	0.0000	0.0000	150854.00	*BB	4.05
21	10.450		0.0000	0.0000	0.0000	0.0000	50407.50	*BB	3.47
			0.0000	0.0000	0.0000	0.0000	363347.50		

Chromatogram

Sample Name : H2HD71AA
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0405008.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 8 Page 1 of 1
Date : 4/5/2006 01:53 PM
Time of Injection: 4/5/2006 01:31 PM
Low Point : -290.12 mV High Point : 5709.88 mV
Plot Scale: 6000.0 mV



STL Knoxville - ACS

Client Sample ID: G-3053-R2-METHOD 0040 TRAIN CONDENSATE

GC Volatiles

Lot-Sample #...: H6D030177-003 **Work Order #...:** H2HD81AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1 **Method.....:** EPA-18 0040 COND

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C4 (0 to 30 deg C)	ND	1.0	ug/L	1.0
C5 (30 to 60 deg C)	**0.33 J,B**	**1.0**	**ug/L**	**0.10**
C6 (60 to 90 deg C)	**0.87 J**	**1.0**	**ug/L**	**0.10**
C7 (90 to 98 deg C)	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	99	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Software Version: 4.1<2F12>
Sample Name : H2HD81AA
Sample Number: 9
Operator :

Time : 4/5/2006 02:22 PM
Study : H6D030177-003

Instrument : COND
AutoSampler :
Rack/Vial : 0/0

Channel : A A/D mV Range : 10000

Interface Serial # : 2100574715 Data Acquisition Time: 4/5/2006 02:00 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0405009.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0405009.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\6D030177.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name		Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	0.8513	~~32.4984~~	32.4984	129.9935	129.9935	16349018.73		4.80
	5.030	BP 30 TO 60 (C5)		0.3308	0.3308	1.3233	1.3233	998360.85		6.21
	7.875	BP 60 TO 90 (C6)		0.8656	0.8656	3.4626	3.4626	1161668.50		4.07
	10.075	BP 90 to 98 (C7)	ND	-0.0461	-0.0461	-0.1843	-0.1843	300325.50		4.15
23	11.829	Toluene		0.0000	0.0000	0.0000	0.0000	30801.00	*BB	3.37
25	12.902	n-Octane (SURR)		24.8703	24.8703	99.4814 ✓	99.4814	14644696.00	*BB	3.51
29	15.336	4-Bromofluorobenzene		100.0000	100.0000	400.0000	400.0000	27259554.50	*VB	3.04
	Solvent Blank Conc 31.6471			158.5191	158.5191	634.0765	634.0765	60744425.08		

32.4984 - 31.6471 = 0.8513 reported JMH 4-5-06

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	2.018		0.0000	0.0000	0.0000	0.0000	27015.50	BB	6.40
2	2.266		0.0000	0.0000	0.0000	0.0000	14182.00	*BB	1.48
3	2.351		0.0000	0.0000	0.0000	0.0000	12794.85	*BV	-3.64
4	2.404		0.0000	0.0000	0.0000	0.0000	3421623.00	*VV	2.69
5	2.523		0.0000	0.0000	0.0000	0.0000	2146542.40	*VV	9.42
6	2.717		0.0000	0.0000	0.0000	0.0000	510606.40	*VV	4.07
7	2.840		0.0000	0.0000	0.0000	0.0000	9085264.91	*VV	5.44
8	3.490		0.0000	0.0000	0.0000	0.0000	1130989.66	*VV	11.70
			0.0000	0.0000	0.0000	0.0000	16349018.73		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
9	3.957		0.0000	0.0000	0.0000	0.0000	515318.96	*VV	6.17
10	4.148		0.0000	0.0000	0.0000	0.0000	68063.91	*VV	5.09
11	4.310	Methylene chloride	0.0000	0.0000	0.0000	0.0000	313417.98	*VB	6.93
12	5.524		0.0000	0.0000	0.0000	0.0000	69522.00	*BB	5.79
13	5.856		0.0000	0.0000	0.0000	0.0000	32038.00	*BB	4.77
			0.0000	0.0000	0.0000	0.0000	998360.85		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
14	6.884		0.0000	0.0000	0.0000	0.0000	183692.50	*BB	4.09
15	7.537		0.0000	0.0000	0.0000	0.0000	31977.00	*BB	4.36
16	8.282		0.0000	0.0000	0.0000	0.0000	220738.00	*BB	4.13
17	8.618		0.0000	0.0000	0.0000	0.0000	725261.00	*BB	4.04
			0.0000	0.0000	0.0000	0.0000	1161668.50		

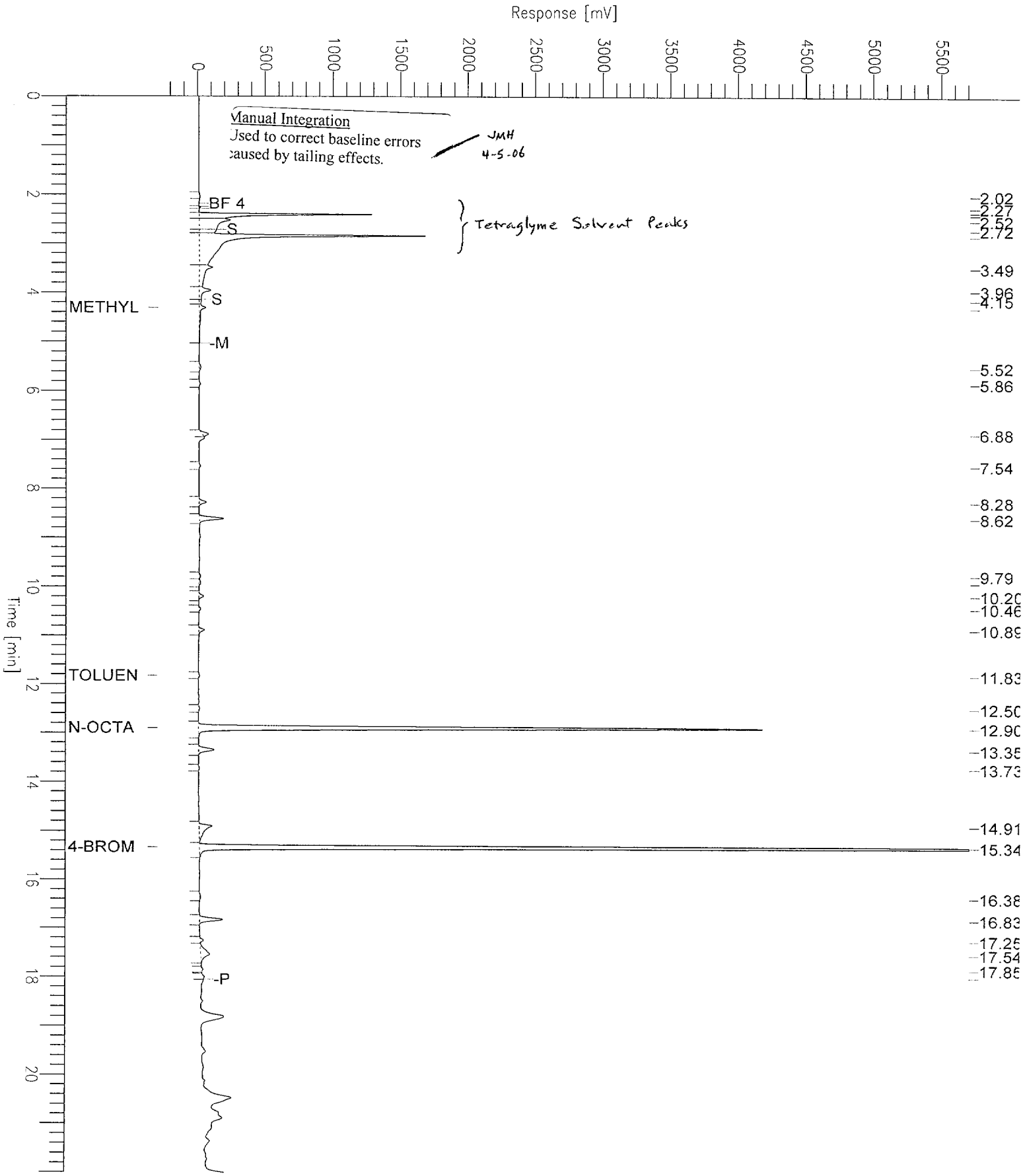
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
18	9.789		0.0000	0.0000	0.0000	0.0000	49370.45	*BV	4.33
19	9.936		0.0000	0.0000	0.0000	0.0000	62626.55	*VB	5.09
20	10.199		0.0000	0.0000	0.0000	0.0000	139503.00	*BB	4.04
21	10.459		0.0000	0.0000	0.0000	0.0000	48825.50	*BB	3.45
			0.0000	0.0000	0.0000	0.0000	300325.50		

Chromatogram

Sample Name : H2HD81AA
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0405009.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 9 Page 1 of 1
Date : 4/5/2006 02:22 PM
Time of Injection: 4/5/2006 02:00 PM
Low Point : -290.27 mV High Point : 5709.73 mV
Plot Scale: 6000.0 mV



STL Knoxville - ACS

Client Sample ID: G-3137-R3-METHOD 0040 TRAIN CONDENSATE

GC Volatiles

Lot-Sample #...: H6D030177-004 **Work Order #...:** H2HEA1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1 **Method.....:** EPA-18 0040 COND

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C4 (0 to 30 deg C)	ND	1.0	ug/L	1.0
C5 (30 to 60 deg C)	**0.30 J,B**	**1.0**	**ug/L**	**0.10**
C6 (60 to 90 deg C)	**0.93 J**	**1.0**	**ug/L**	**0.10**
C7 (90 to 98 deg C)	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	100	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Software Version: 4.1<2F12>
Sample Name : H2HEA1AA
Sample Number: 10
Operator :

Time : 4/5/2006 02:50 PM
Study : H6D030177-004

Instrument : COND
AutoSampler :
Rack/Vial : 0/0

Channel : A A/D mV Range : 10000

Interface Serial # : 2100574715 Data Acquisition Time: 4/5/2006 02:28 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0405010.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0405010.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\6D030177.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name		Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	ND	~~31.3410~~	31.3410	125.3642	125.3642	16004060.79		5.01
	5.030	BP 30 TO 60 (C5)		0.2964	0.2964	1.1856	1.1856	993143.99		6.11
	7.875	BP 60 TO 90 (C6)		0.9305	0.9305	3.7220	3.7220	1214385.50		4.37
	10.075	BP 90 to 98 (C7)	ND	-0.1907	-0.1907	-0.7628	-0.7628	218679.00		3.86
22	11.821	Toluene		0.0000	0.0000	0.0000	0.0000	56011.00	*BB	3.45
25	12.892	n-Octane (SURR)		25.0540	25.0540	100.2158 ✓	100.2158	14928110.00	*BB	3.50
29	15.326	4-Bromofluorobenzene		100.0000	100.0000	400.0000	400.0000	27586279.00	*BB	3.06
Solvent Blank Conc: 31.6471				157.4312	157.4312	629.7248	629.7248	61000669.28		

31.3410 - 31.6471 = ND reported JMH 4-5-06

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	1.987		0.0000	0.0000	0.0000	0.0000	29009.00	BB	5.35
2	2.340		0.0000	0.0000	0.0000	0.0000	13231.84	*BV	-3.84
3	2.406		0.0000	0.0000	0.0000	0.0000	3400064.41	*VV	2.92
4	2.532		0.0000	0.0000	0.0000	0.0000	2105823.37	*VV	9.39
5	2.717		0.0000	0.0000	0.0000	0.0000	499263.80	*VV	4.05
6	2.841		0.0000	0.0000	0.0000	0.0000	8863633.24	*VV	5.60
7	3.490		0.0000	0.0000	0.0000	0.0000	1093035.12	*VV	11.11
			0.0000	0.0000	0.0000	0.0000	16004060.79		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
8	3.956		0.0000	0.0000	0.0000	0.0000	499102.57	*VV	6.13
9	4.148		0.0000	0.0000	0.0000	0.0000	65452.12	*VV	5.09
10	4.310	Methylene chloride	0.0000	0.0000	0.0000	0.0000	325337.80	*VB	6.58
11	5.510		0.0000	0.0000	0.0000	0.0000	75423.00	*BB	5.86
12	5.847		0.0000	0.0000	0.0000	0.0000	27828.50	*BB	4.70
			0.0000	0.0000	0.0000	0.0000	993143.99		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
13	6.871		0.0000	0.0000	0.0000	0.0000	258946.81	*BV	4.85
14	6.955		0.0000	0.0000	0.0000	0.0000	270357.19	*VB	4.60
15	7.523		0.0000	0.0000	0.0000	0.0000	34589.00	*BB	4.58
16	8.271		0.0000	0.0000	0.0000	0.0000	217746.00	*BB	4.16
17	8.609		0.0000	0.0000	0.0000	0.0000	432746.50	*BB	4.10
			0.0000	0.0000	0.0000	0.0000	1214385.50		

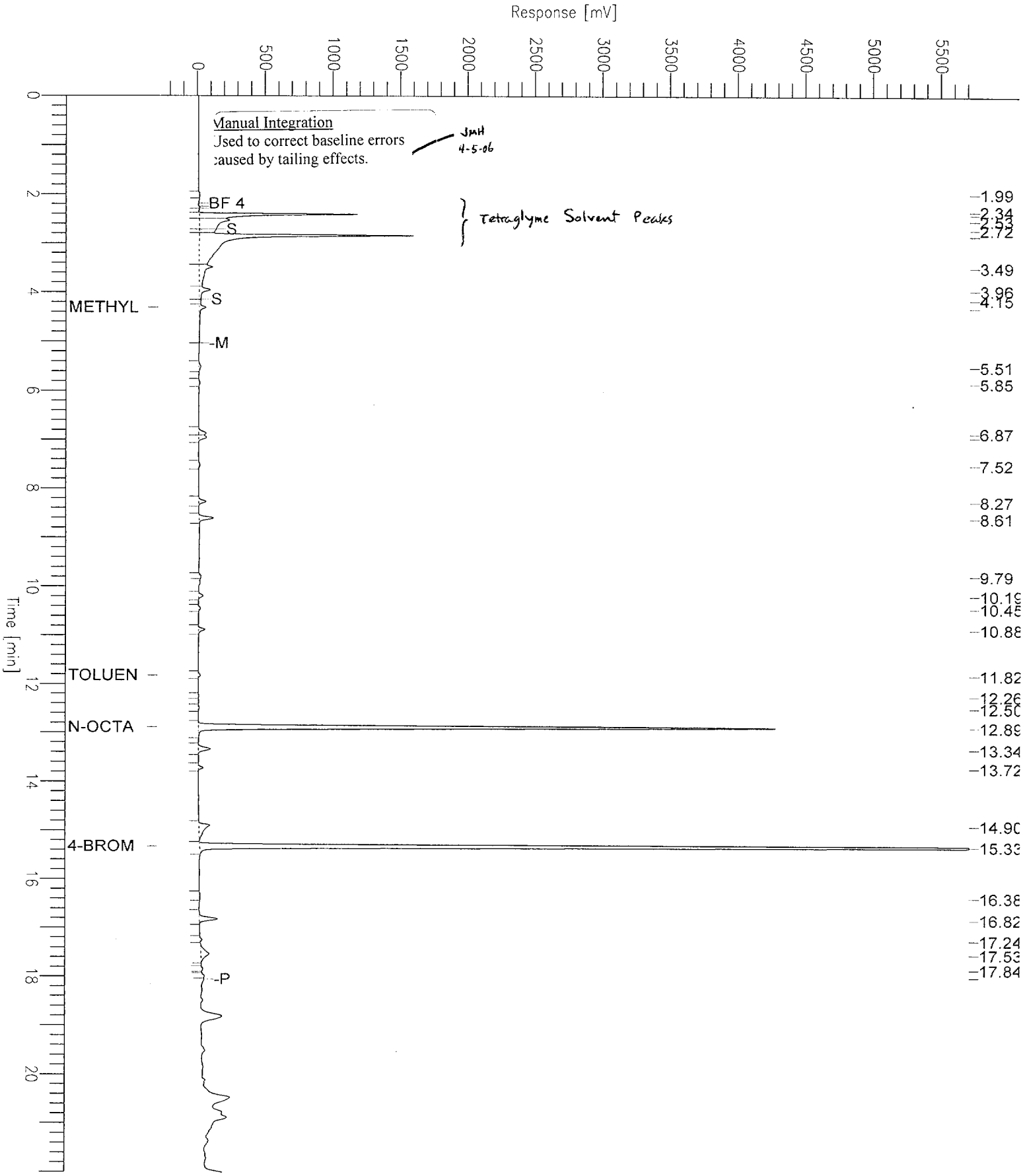
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
18	9.792		0.0000	0.0000	0.0000	0.0000	33569.00	*BB	3.98
19	10.193		0.0000	0.0000	0.0000	0.0000	135296.00	*BB	4.00
20	10.453		0.0000	0.0000	0.0000	0.0000	49814.00	*BB	3.49
			0.0000	0.0000	0.0000	0.0000	218679.00		

Chromatogram

Sample Name : H2HEA1AA
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0405010.raw
Method : C0012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 10 Page 1 of 1
Date : 4/5/2006 02:50 PM
Time of Injection: 4/5/2006 02:28 PM
Low Point : -290.20 mV High Point : 5709.80 mV
Plot Scale: 6000.0 mV



Calibration Data

STL Knoxville GC Method 0040 Condensate Data Review / Narrative Checklist
SOP: KNOX-GC-0016, Rev. 1, Page 1 of 1

Batch Number:	6095081	6095081	
Lot Number(s):	H6C300257	H6D030177	
Sequence No.:	6D030177	6D030177	
Scanned File:	ICAL 012606	ICAL 012606	

Review Items				2nd ✓	
A. Continuing Calibration (CCAL))	**Yes**	**No**	**N/A**		**If No, why is data reportable?**
1. **CCAL** meets criteria for all target analytes? (%D ≤ 15%)	✓			✓	
B. Client Sample					
1. Were all **special project requirements** met?	✓			✓	
2. Were **Turbochrom** sample IDs and DFs **verified**?	✓			✓	
2. Sample analyses done within preparation and analytical **holding time** (HT)? *If no, list samples and NCM#:* H6C300257	✓ JMH 4-5-06	✓			☑ **[ht1]** *HT expired upon receipt.* ☑ **[ht2]** *Client requested analysis after HT expired.* * Client held sample past HT DW 4/7/06
4. Same **process file** used for samples and ICAL? (2nd Level - Check 1-2 compounds for batch by manually calculating concentration using the ICAL curve.)	✓			✓	
5. Are **sample surrogates** within QC limits?	✓			✓	☐ **[sur3]** Not enough sample for re-extraction. ☐ **[sur7]** Obvious matrix interference. ☐ **[sur12]** Surr.%R high and all targets ND. ☐ **[sur13]** Surr. out, but blank & LCS surrogates in control - matrix effect.
6. Are positive results **within calibration range**?	✓			✓	
7. Is **integration** acceptable and are all manual integrations clearly identified, initialed, dated and reason given?	✓			✓	Reasons: 1) Corrected split peak; 2) Corrected baseline; 3) Tailing; 4) RT shift; 5) Wrong peak selected; 6) Other
8. Were runs checked for **carryover**?	✓			✓	
9. Final **report acceptable**? (Results correct, RLs and MDLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, deviations noted in narrative, dilution factor correct, and analysis dates correct.)	✓			✓	
C. QC Sample Results					
1. **Method blank** done per prep batch, method blank or instrument blank run with each sequence, and all analytes <RL?	✓			✓	☐ **[mb3]** No analyte > RL in associated samples. * ☐ **[mb4]** Sample results > 20x higher than blank. ☐ **[mb5]** Insufficient sample for reanalysis. *
2. **LCS/LCSD** done per prep batch and all recoveries and RPDs within laboratory established QC limits?	✓			✓	☐ **[lcs2]** Insufficient sample for reanalysis.* ☐ **[lcs3]** LCS %R high and all analyte(s) were <RL in associated samples.
3. **Method blank, LCS and LCSD surrogate recoveries** within QC limits?	✓			✓	☐ **[mb1]** Sample surrogates OK and there is no analyte >RL in samples associated with blank. * ☐ **[lsc1]** Sample surrogates OK.
D. Other					
1. Are all **nonconformances** documented appropriately?			✓	NA	

Analyst: JM Humphrey	**Date:** 4-5-06	**2nd Level Reviewer:** [signature]	**Date:** 4-7-06
Comments:		**Comments:**	

* Such action must be taken in consultation with client.

STL Knoxville
GC Method 0040, Instrument CO Run Log
SOP KNOX-GC-0016, Rev. 1

Date:	04-05-06	CCV Std. ID:	AS 544
QuantIMS Batch:	6095081	CCV Spike Vol (uL):	5
ICAL Date:	01-26-06	IS Std. ID:	AS 556
Instrument Method:	CO 012606	IS Spike Vol. (uL):	10
Data Processing Method:	CO 012606	Surr. Std. ID:	AS 553
Sequence ID:	6D030177	Surr Spike Vol. (uL):	5
Scanned File ID:	ICAL012606	LCS Std. ID:	AS 550
		LCS Spike Vol. (uL):	5

Preventive Maintenance Performed ☐ NA or ☑ Yes CHANGED PAT SEPTA

	Lot/Sample	WO #	Lab File ID	Time	Dilution Factor	Volume Purged	Analyst	Comments
1	-	BLANK	0405001	0941	1	10	JMH	
2	-	CCV1 040506	0405002	1015	↓	↓	↓	OK
3	-	Solvent Peak Blank	0405003	1044	↓	↓	↓	Conc: 31.6471
4	H6D050000-081	B H2LW61AA	0405004	1113	↓	↓	↓	
5	↓ -081	C H2LW61AC	0405005	1154	↓	↓	↓	OK
6	↓ -081	L H2LW61AD	0405006	1225	↓	↓	↓	OK
7	H6D030177-001	H2HDX1AA	0405007	1254	↓	↓	↓	42.90mL
8	↓ -002	H2HD71AA	0405008	1331	↓	↓	↓	42.51mL
9	↓ -003	H2HD81AA	0405009	1400	↓	↓	↓	42.42mL
10	↓ -004	H2HEA1AA	0405010	1428	↓	↓	↓	42.02mL
11	H6C300257-001	H2ACL1AA	0405011	1457	↓	↓	↓	42.21mL
12	↓ -002	H2ACN1AA	0405012	1525	↓	↓	↓	42.51mL
13	↓ -006	H2ADX1AA	0405013	~~1554~~ 1554 JMH	↓	↓	↓	11.86mL
14	-	CCV2 040506	0405014	1623	↓	↓	↓	OK
15								
16								
17				JMH				
18				4-5-06				
19								
20								

Analyst/Date: Jm Humphrey / 4-5-06

2nd Level Reviewer/Date: _____ / _____

Turbochrom Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\6D030177.SEQ
Created by : doug on : 4/5/2006 09:28 AM
Edited by : manager on : 4/5/2006 09:45 AM
Description : ICAL 01/26/06 instrument CO

Number of Times Edited : 1

Sequence File Header Information:

Number of Rows : 20
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample	Blank	1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	CCV1 04-05-06 2	2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	Solvent Peak Bl	3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	H2LW61AA	4	H6D050000-	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	H2LW61AC	5	H6D050000-	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	H2LW61AD	6	H6D050000-	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	H2HDX1AA	7	H6D030177-	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	H2HD71AA	8	H6D030177-	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	H2HD81AA	9	H6D030177-	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	H2HEA1AA	10	H6D030177-	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	H2ACL1AA	11	H6C300257-	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	H2ACN1AA	12	H6C300257-	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	H2ADX1AA	13	H6C300257-	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	CCV2 04-05-06 2	14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample		15		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample		16		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample		17		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample		18		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample		19		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample		20		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel A

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	C0012606	C0012606	C0012606	C0012606	0405001	0405001		0405001	-	-	-	DEFAULT,[
2	-	1	2	C0012606	C0012606	C0012606	C0012606	0405002	0405002		0405002	-	-	-	DEFAULT,[
3	-	1	3	C0012606	C0012606	C0012606	C0012606	0405003	0405003		0405003	-	-	-	DEFAULT,[
4	-	1	4	C0012606	C0012606	C0012606	C0012606	0405004	0405004		0405004	-	-	-	DEFAULT,[
5	-	1	5	C0012606	C0012606	C0012606	C0012606	0405005	0405005		0405005	-	-	-	DEFAULT,[
6	-	1	6	C0012606	C0012606	C0012606	C0012606	0405006	0405006		0405006	-	-	-	DEFAULT,[
7	-	1	7	C0012606	C0012606	C0012606	C0012606	0405007	0405007		0405007	-	-	-	DEFAULT,[
8	-	1	8	C0012606	C0012606	C0012606	C0012606	0405008	0405008		0405008	-	-	-	DEFAULT,[
9	-	1	9	C0012606	C0012606	C0012606	C0012606	0405009	0405009		0405009	-	-	-	DEFAULT,[
10	-	1	10	C0012606	C0012606	C0012606	C0012606	0405010	0405010		0405010	-	-	-	DEFAULT,[
11	-	1	11	C0012606	C0012606	C0012606	C0012606	0405011	0405011		0405011	-	-	-	DEFAULT,[
12	-	1	12	C0012606	C0012606	C0012606	C0012606	0405012	0405012		0405012	-	-	-	DEFAULT,[
13	-	1	13	C0012606	C0012606	C0012606	C0012606	0405013	0405013		0405013	-	-	-	DEFAULT,[
14	-	1	14	C0012606	C0012606	C0012606	C0012606	0405014	0405014		0405014	-	-	-	DEFAULT,[
15	-	1	15	C0012606	C0012606	C0012606	C0012606	0405015	0405015		0405015	-	-	-	DEFAULT,[
16	-	1	16	C0012606	C0012606	C0012606	C0012606	0405016	0405016		0405016	-	-	-	DEFAULT,[
17	-	1	17	C0012606	C0012606	C0012606	C0012606	0405017	0405017		0405017	-	-	-	DEFAULT,[
18	-	1	18	C0012606	C0012606	C0012606	C0012606	0405018	0405018		0405018	-	-	-	DEFAULT,[
19	-	1	19	C0012606	C0012606	C0012606	C0012606	0405019	0405019		0405019	-	-	-	DEFAULT,[
20	-	1	20	C0012606	C0012606	C0012606	C0012606	0405020	0405020		0405020	-	-	-	DEFAULT,[

Software Version: 4.1<2F12>
Sample Name : CCV1 04-05-06 25 ug/L Time : 4/5/2006 10:37 AM
Sample Number: 2 Study :
Operator :

Instrument : COND Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2100574715 Data Acquisition Time: 4/5/2006 10:15 AM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0405002.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0405002.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\6D030177.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	31.3054	31.3054	125.2217	125.2217	16558704.32		4.64
	5.030	BP 30 TO 60 (C5)	24.2205	24.2205	96.8818 ✓	96.8818	13098399.48		4.23
	7.875	BP 60 TO 90 (C6)	24.4842	24.4842	97.9366 ✓	97.9366	15851031.00		5.29
	10.075	BP 90 to 98 (C7)	24.2096	24.2096	96.8383 ✓	96.8383	15122038.50		4.11
21	11.785	Toluene	0.0000	0.0000	0.0000	0.0000	29022.00	*BB	3.45
23	12.859	n-Octane (SURR)	24.5367	24.5367	98.1467 ✓	98.1467	15146738.00	*BB	3.48
27	15.290	4-Bromofluorobenzene	100.0000	100.0000	400.0000	400.0000	28572068.50	*BB	3.02
			228.7563	228.7563	915.0252	915.0252	1.04e+08		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	1.995		0.0000	0.0000	0.0000	0.0000	27046.00	BB	6.13
2	2.246		0.0000	0.0000	0.0000	0.0000	25730.50	*BB	1.78
3	2.383		0.0000	0.0000	0.0000	0.0000	3574895.37	*BV	2.66
4	2.505		0.0000	0.0000	0.0000	0.0000	1988306.43	*VV	12.13
5	2.717		0.0000	0.0000	0.0000	0.0000	324237.17	*VV	2.57
6	2.813	Acetone	0.0000	0.0000	0.0000	0.0000	9493079.45	*VV	5.24
7	3.454		0.0000	0.0000	0.0000	0.0000	1125409.41	*VV	11.03
			0.0000	0.0000	0.0000	0.0000	16558704.32		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
8	3.915		0.0000	0.0000	0.0000	0.0000	11736880.22	*VV	4.03
9	4.156		0.0000	0.0000	0.0000	0.0000	197022.25	*VV	3.34
10	4.263	Methylene chloride	0.0000	0.0000	0.0000	0.0000	1039727.51	*VB	10.26
11	5.453		0.0000	0.0000	0.0000	0.0000	124769.50	*BB	6.17
			0.0000	0.0000	0.0000	0.0000	13098399.48		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
12	6.808		0.0000	0.0000	0.0000	0.0000	15431150.00	*BB	5.32
13	7.466		0.0000	0.0000	0.0000	0.0000	35086.00	*BB	4.52
14	7.793		0.0000	0.0000	0.0000	0.0000	70371.00	*BB	4.95
15	8.233		0.0000	0.0000	0.0000	0.0000	258939.00	*BB	4.23
16	8.577		0.0000	0.0000	0.0000	0.0000	55485.00	*BB	4.24
			0.0000	0.0000	0.0000	0.0000	15851031.00		

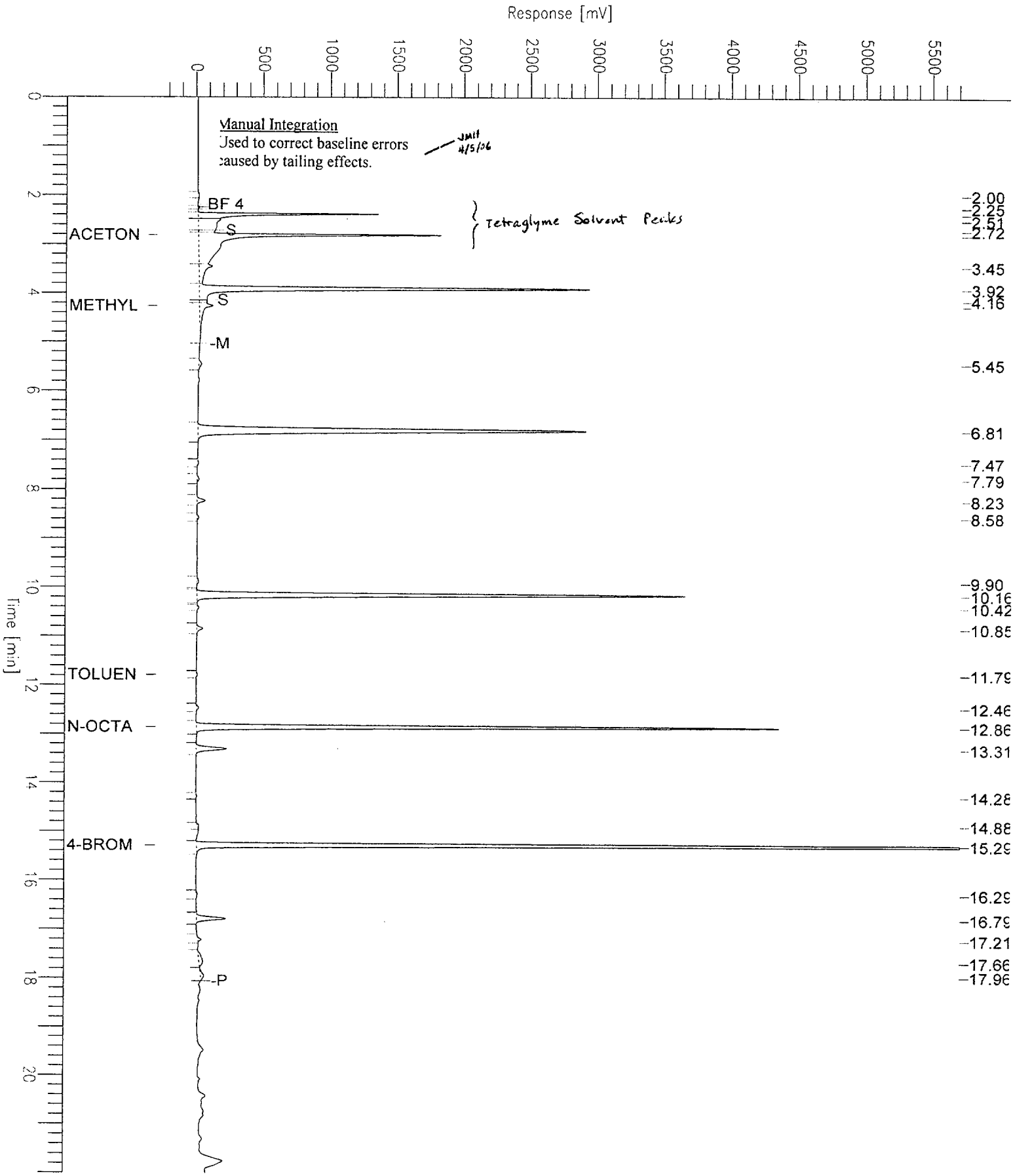
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
17	9.896		0.0000	0.0000	0.0000	0.0000	59334.00	*BB	5.04
18	10.163		0.0000	0.0000	0.0000	0.0000	15016158.00	*BB	4.11
19	10.417		0.0000	0.0000	0.0000	0.0000	46546.50	*BB	3.30
			0.0000	0.0000	0.0000	0.0000	15122038.50		

Chromatogram

Sample Name : CCV1 04-05-06 25 ug/L
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0405002.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 2 Page 1 of 1
Date : 4/5/2006 10:37 AM
Time of Injection: 4/5/2006 10:15 AM
Low Point : -290.16 mV High Point : 5709.84 mV
Plot Scale: 6000.0 mV



Software Version: 4.1<2F12>
Sample Name : CCV2 04-05-06 25 ug/L Time : 4/5/2006 04:41 PM
Sample Number: 14 Study :
Operator :

Instrument : COND Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2100574715 Data Acquisition Time: 4/5/2006 04:23 PM
Delay Time : 0.00 min.
End Time : 18.10 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0405014.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0405014.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\6D030177.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery		CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	30.0467	30.0467	120.1868		120.1868	15835090.53		5.16
	5.030	BP 30 TO 60 (C5)	23.2503	23.2503	93.0010	✓	93.0010	12531343.14		4.65
	7.875	BP 60 TO 90 (C6)	24.8992	24.8992	99.5970	✓	99.5970	15994419.50		5.28
	10.075	BP 90 to 98 (C7)	24.7770	24.7770	99.1081	✓	99.1081	15359177.50		4.17
20	11.821	Toluene	0.0000	0.0000	0.0000		0.0000	37936.00	*BB	3.51
22	12.893	n-Octane (SURR)	24.9520	24.9520	99.8081	✓	99.8081	15290752.00	*BB	3.51
26	15.327	4-Bromofluorobenzene	100.0000	100.0000	400.0000		400.0000	28370237.00	*BB	3.06
			227.9253	227.9253	911.7010		911.7010	1.03e+08		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	1.991		0.0000	0.0000	0.0000	0.0000	25706.00	BB	5.47
2	2.344		0.0000	0.0000	0.0000	0.0000	20315.61	*BV	-4.19
3	2.412		0.0000	0.0000	0.0000	0.0000	3491670.56	*VV	3.12
4	2.536		0.0000	0.0000	0.0000	0.0000	1937396.33	*VV	9.39
5	2.717		0.0000	0.0000	0.0000	0.0000	539786.73	*VV	4.27
6	2.846		0.0000	0.0000	0.0000	0.0000	8975800.31	*VV	5.85
7	3.493		0.0000	0.0000	0.0000	0.0000	844414.99	*VV	10.19
			0.0000	0.0000	0.0000	0.0000	15835090.53		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
8	3.959		0.0000	0.0000	0.0000	0.0000	10544383.51	*VV	4.26
9	4.148		0.0000	0.0000	0.0000	0.0000	529224.52	*VV	5.94
10	4.311	Methylene chloride	0.0000	0.0000	0.0000	0.0000	1421969.10	*VB	11.50
11	5.840		0.0000	0.0000	0.0000	0.0000	35766.00	*BB	4.77
			0.0000	0.0000	0.0000	0.0000	12531343.14		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
12	6.863		0.0000	0.0000	0.0000	0.0000	15419573.00	*BB	5.33
13	7.843		0.0000	0.0000	0.0000	0.0000	66863.00	*BB	4.93
14	8.267		0.0000	0.0000	0.0000	0.0000	200233.00	*BB	4.17
15	8.607		0.0000	0.0000	0.0000	0.0000	307750.50	*BB	4.14
			0.0000	0.0000	0.0000	0.0000	15994419.50		

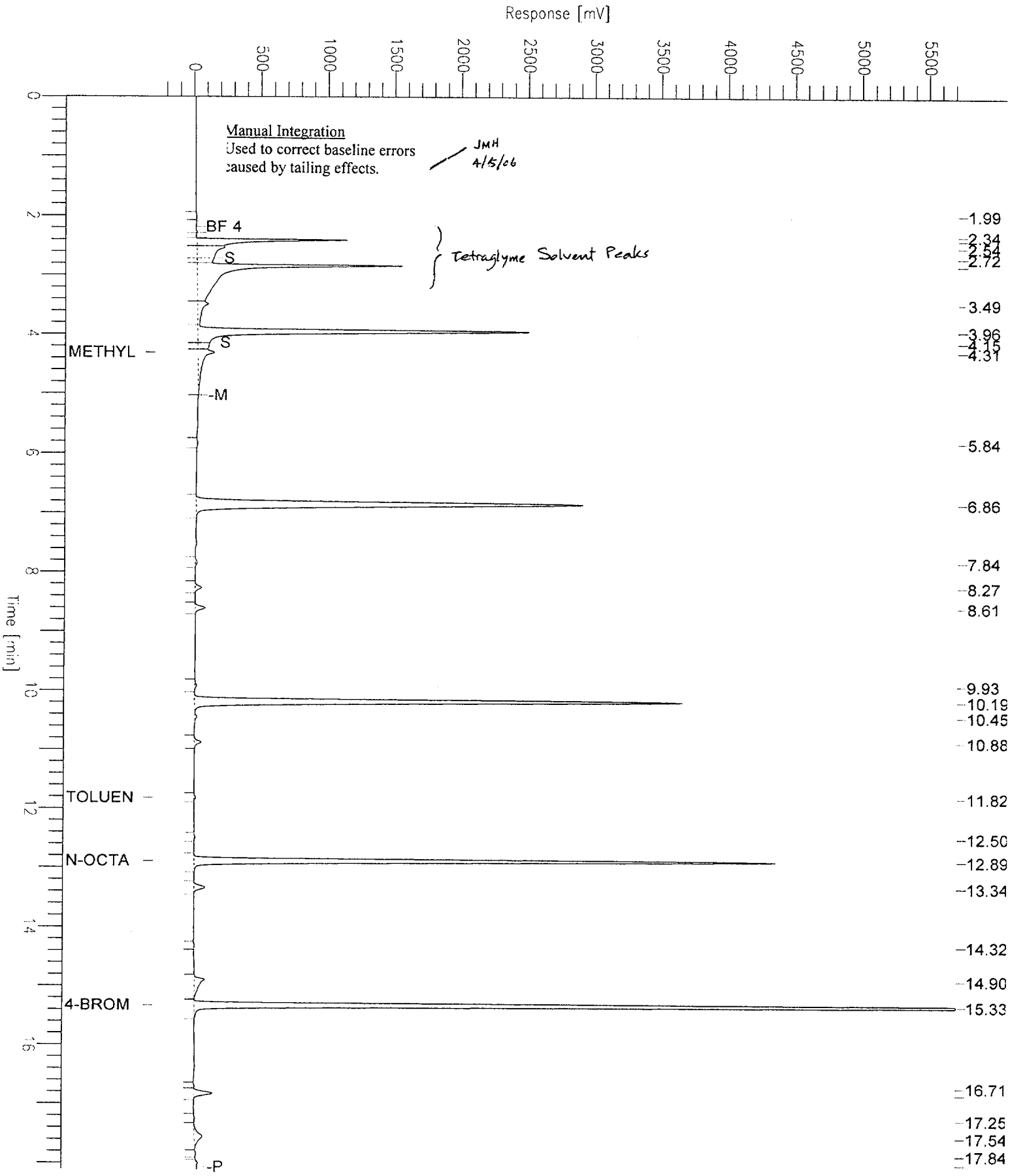
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
16	9.925		0.0000	0.0000	0.0000	0.0000	61035.00	*BB	5.12
17	10.192		0.0000	0.0000	0.0000	0.0000	15222351.50	*BE	4.17
18	10.451		0.0000	0.0000	0.0000	0.0000	75791.00	*EB	4.66
			0.0000	0.0000	0.0000	0.0000	15359177.50		

Chromatogram

Sample Name : CCV2 04-05-06 25 ug/L
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0405014.raw
Method : CO012606
Start Time : 0.00 min End Time : 18.10 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 14 Page 1 of 1
Date : 4/5/2006 04:41 PM
Time of Injection: 4/5/2006 04:23 PM
Low Point : -290.22 mV High Point : 5709.78 mV
Plot Scale: 6000.0 mV



STL Knoxville GC Method 0040 Condensate Data Review / Narrative Checklist
SOP: KNOX-GC-0010, Rev. 2, Page 1 of 1

Sequence No.:	IC 012606 . SEQ		
Scanned File:	ICAL 012606		

Review Items				2nd ✓	
A. Initial Calibration (ICAL)	**Yes**	**No**	**N/A**		**If No, why is data reportable?**
1. **ICAL** curves meet criteria (Correlation Coefficients ≥ 0.995 for each ICAL?	✓			✓	
2. Is **integration** acceptable and are all manual integrations clearly identified, initialed, dated and reason given?	✓			✓	Reasons: 1) Corrected split peak; 2) Corrected baseline; 3) Tailing; 4) RT shift; 5) Wrong peak selected; 6) Other
3. Do **areas** match between saved method, ICAL curve data report and original chromatograms?	✓			✓	
4. **Retention time windows** verified? Are all standard peaks identified within the correct time interval?	✓			✓	
5. **ICV** Within acceptance criteria (70 to 130 %Recovery)?	✓			✓	

Analyst: JMHumphrey	**Date:** 1/26/06	**2nd Level Reviewer:** [signature]	**Date:** 2/2/06
Comments:		**Comments:**	

* Such action must be taken in consultation with client.

Turbochrom Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\IC012606.SEQ
Created by : doug on : 1/26/2006 11:45 AM
Edited by : manager on : 1/26/2006 06:00 PM
Description : ICAL 01/26/06 instrument CO

Number of Times Edited : 2

Sequence File Header Information:

Number of Rows : 14
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample	Blank	1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	ICAL L6 50 ug/L	2	ICAL 01260	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	ICAL L5 25 ug/L	3	ICAL 01260	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	ICAL L4 10 ug/L	4	ICAL 01260	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	ICAL L3 5 ug/L	5	ICAL 01260	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	ICAL L2 2 ug/L	6	ICAL 01260	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	ICAL L1 1 ug/L	7	ICAL 01260	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	Blank	8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	MB 01-26-06	9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	LCS 01-26-06	10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample		11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample		12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample		24		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample		25		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

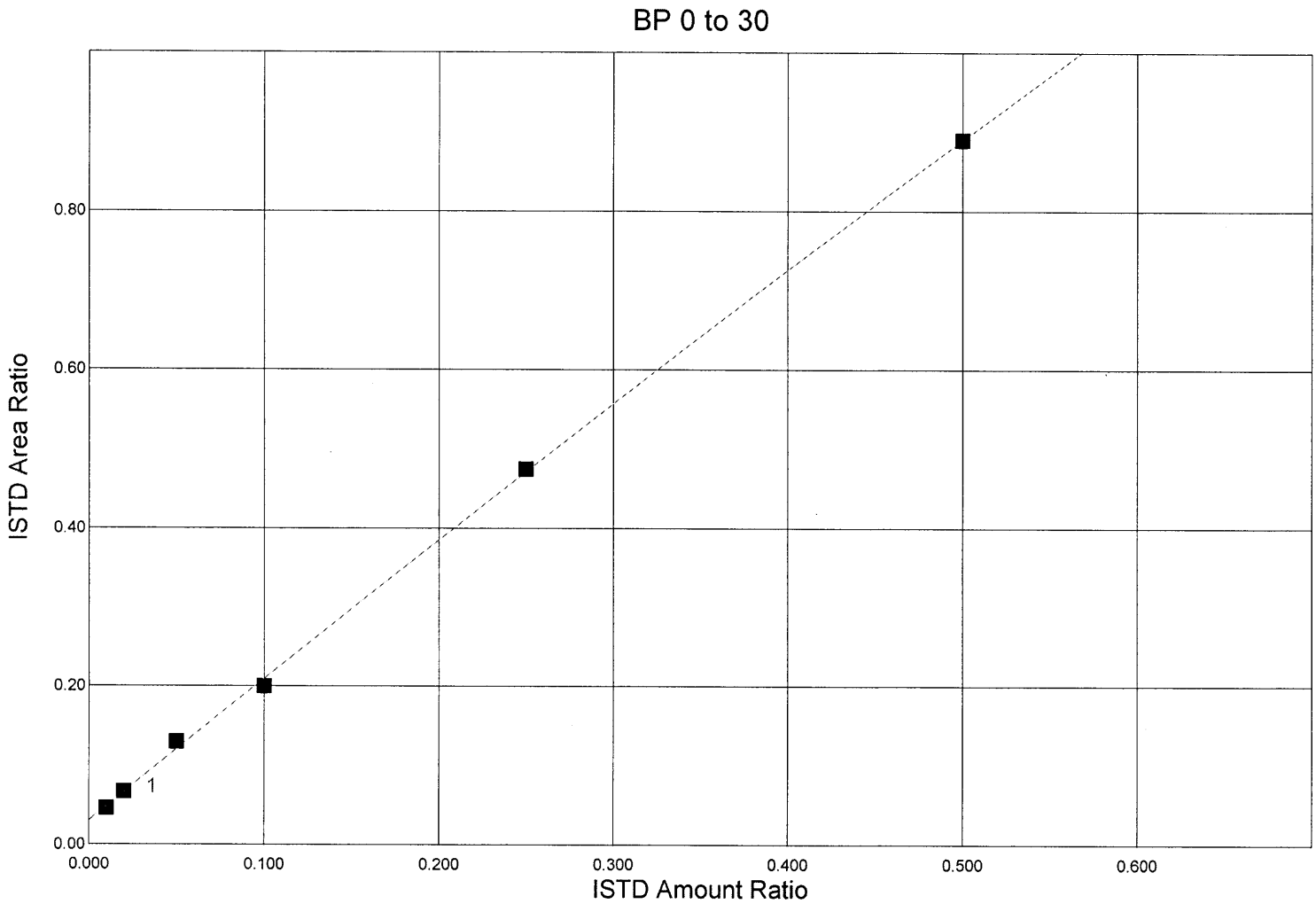
Sequence Process Information - Channel A

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	C0012606	C0012606	C0012606	C0012606	0126001	0126001		0126001	-	-	-	DEFAULT,[
2	-	1	2	C0012606	C0012606	C0012606	C0012606	0126002	0126002		0126002	-	-	-	DEFAULT,[
3	-	1	3	C0012606	C0012606	C0012606	C0012606	0126003	0126003		0126003	-	-	-	DEFAULT,[
4	-	1	4	C0012606	C0012606	C0012606	C0012606	0126004	0126004		0126004	-	-	-	DEFAULT,[
5	-	1	5	C0012606	C0012606	C0012606	C0012606	0126005	0126005		0126005	-	-	-	DEFAULT,[
6	-	1	6	C0012606	C0012606	C0012606	C0012606	0126006	0126006		0126006	-	-	-	DEFAULT,[
7	-	1	7	C0012606	C0012606	C0012606	C0012606	0126007	0126007		0126007	-	-	-	DEFAULT,[
8	-	1	8	C0012606	C0012606	C0012606	C0012606	0126008	0126008		0126008	-	-	-	DEFAULT,[
9	-	1	9	C0012606	C0012606	C0012606	C0012606	0126009	0126009		0126009	-	-	-	DEFAULT,[
10	-	1	10	C0012606	C0012606	C0012606	C0012606	0126010	0126010		0126010	-	-	-	DEFAULT,[
11	-	1	11	C0012606	C0012606	C0012606	C0012606	0126011	0126011		0126011	-	-	-	DEFAULT,[
12	-	1	12	C0012606	C0012606	C0012606	C0012606	0126012	0126012		0126012	-	-	-	DEFAULT,[
13	-	1	24	C0012606	C0012606	C0012606	C0012606	0126013	0126013		0126013	-	-	-	DEFAULT,[
14	-	1	25	C0012606	C0012606	C0012606	C0012606	0126014	0126014		0126014	-	-	-	DEFAULT,[

Fit Analysis Output For Method File: "F:\GC\TURBOC~1\COND\2006DA~1\CO012606.MTH"49
Component Name: "BP 0 to 30"
Date: 1/26/2006 Time: 04:40 PM

Curve Parameters:

Curve #1 : 2nd Order
Weighting Factor = 1.0 (No Weighting) r^2 = 0.999633
Calibration Curve = (0.030637) + (1.810283)X + (-0.181754)X^2

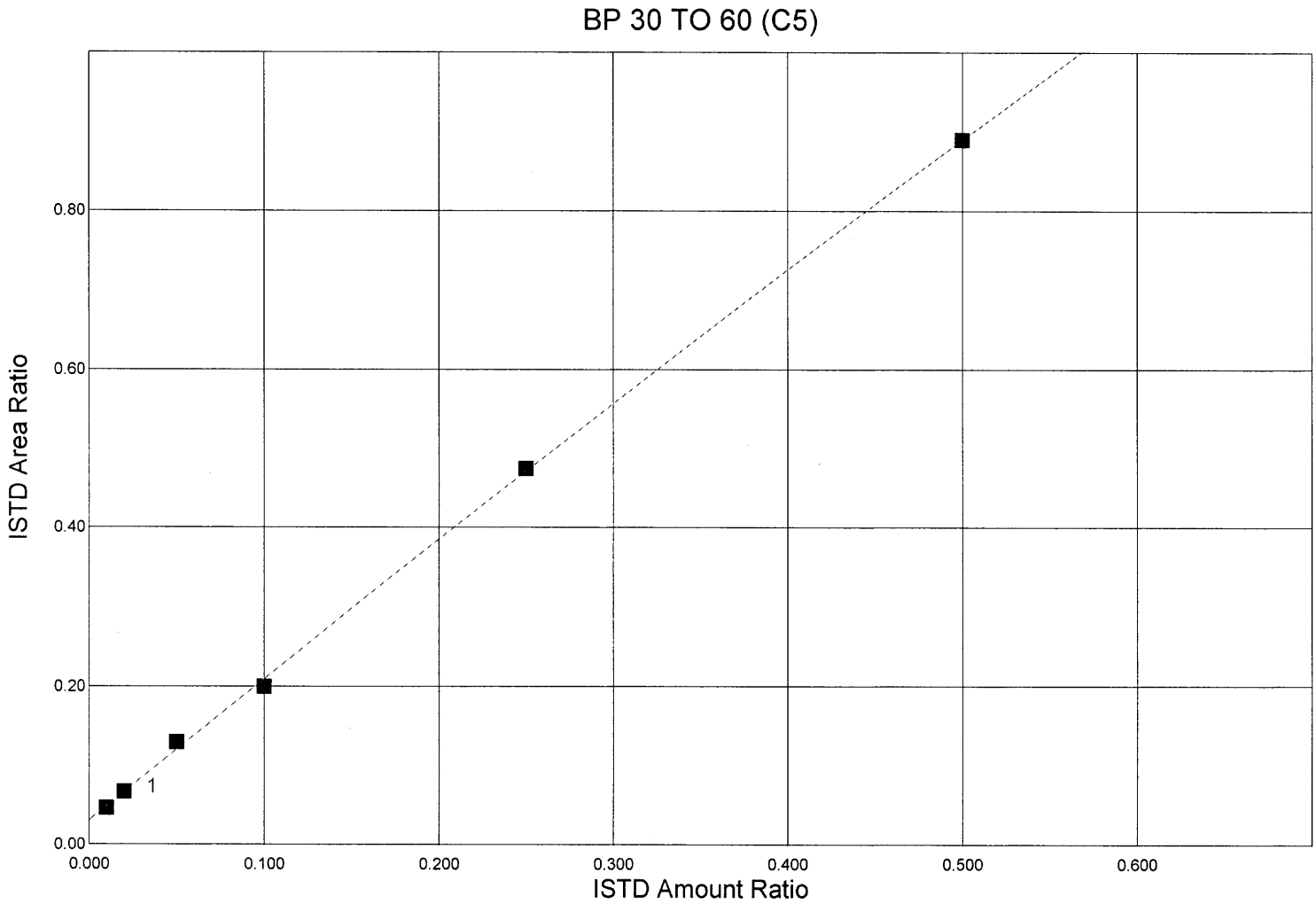


Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
1	0.010000	0.008612	0.001388	16.117	0.046	0.049	-0.003	-5.148
2	0.020000	0.020243	-0.000243	-1.199	0.067	0.067	0.000	0.655
3	0.050000	0.055162	-0.005162	-9.357	0.130	0.121	0.009	7.660
4	0.100000	0.094503	0.005497	5.817	0.200	0.210	-0.010	-4.649
5	0.250000	0.251772	-0.001772	-0.704	0.475	0.472	0.003	0.645
6	0.500000	0.499716	0.000284	0.057	0.890	0.890	-0.000	-0.052

Fit Analysis Output For Method File: "F:\GC\TURBOC~1\COND\2006DA~1\CO012606.MTH" 50
Component Name: "BP 30 TO 60 (C5)"
Date: 1/26/2006 Time: 04:41 PM

Curve Parameters:

Curve #1 : 2nd Order
Weighting Factor = 1.0 (No Weighting) r^2 = 0.999633
Calibration Curve = (0.030637) + (1.810283)X + (-0.181754)X^2

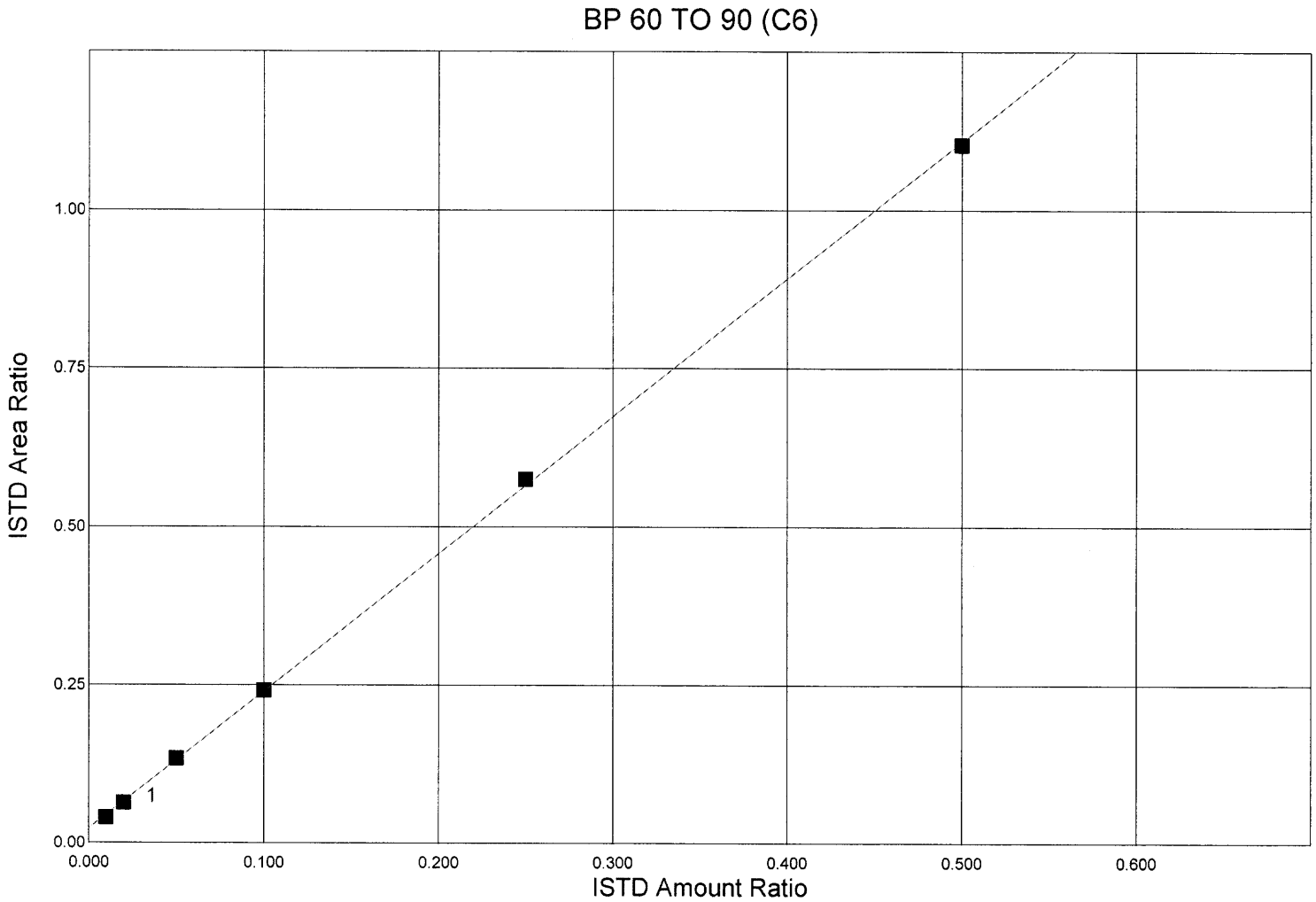


Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
1	0.010000	0.008612	0.001388	16.117	0.046	0.049	-0.003	-5.148
2	0.020000	0.020243	-0.000243	-1.199	0.067	0.067	0.000	0.655
3	0.050000	0.055162	-0.005162	-9.357	0.130	0.121	0.009	7.660
4	0.100000	0.094503	0.005497	5.817	0.200	0.210	-0.010	-4.649
5	0.250000	0.251772	-0.001772	-0.704	0.475	0.472	0.003	0.645
6	0.500000	0.499716	0.000284	0.057	0.890	0.890	-0.000	-0.052

Fit Analysis Output For Method File: "F:\GC\TURBOC~1\COND\2006DA~1\CO012606.MTH"51
Component Name: "BP 60 TO 90 (C6)"
Date: 1/26/2006 Time: 04:41 PM

Curve Parameters:

Curve #1 : 1st Order
Weighting Factor = 1.0 (No Weighting) r^2 = 0.999824
Calibration Curve = (0.023844) + (2.168463)X



Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
1	0.010000	0.007777	0.002223	28.580	0.041	0.046	-0.005	-10.587
2	0.020000	0.018655	0.001345	7.210	0.064	0.067	-0.003	-4.340
3	0.050000	0.050925	-0.000925	-1.817	0.134	0.132	0.002	1.517
4	0.100000	0.100586	-0.000586	-0.583	0.242	0.241	0.001	0.528
5	0.250000	0.254336	-0.004336	-1.705	0.575	0.566	0.009	1.661
6	0.500000	0.497721	0.002279	0.458	1.103	1.108	-0.005	-0.446

STL Knoxville GC Method 0040 Condensate Data Review / Narrative Checklist
SOP: KNOX-GC-0010, Rev. 2, Page 1 of 1

Sequence No.:	IC 012606 . SEQ		
Scanned File:	ICAL 012606		

Review Items				2nd ✓	
A. Initial Calibration (ICAL)	**Yes**	**No**	**N/A**		**If No, why is data reportable?**
1. **ICAL** curves meet criteria (Correlation Coefficients ≥ 0.995 for each ICAL?	✓			✓	
2. Is **integration** acceptable and are all manual integrations clearly identified, initialed, dated and reason given?	✓			✓	Reasons: 1) Corrected split peak; 2) Corrected baseline; 3) Tailing; 4) RT shift; 5) Wrong peak selected; 6) Other
3. Do **areas** match between saved method, ICAL curve data report and original chromatograms?	✓			✓	
4. **Retention time windows** verified? Are all standard peaks identified within the correct time interval?	✓			✓	
5. **ICV** Within acceptance criteria (70 to 130 %Recovery)?	✓			✓	

Analyst: JMHumphrey	**Date:** 1/26/06	**2nd Level Reviewer:** [signature]	**Date:** 2/2/06
Comments:		**Comments:**	

* Such action must be taken in consultation with client.

STL Knoxville
GC Method 0040, Instrument CO Run Log
SOP KNOX-GC-0016, Rev. 0

Date:	1/26/2006	CCV Std. ID:	AS544
QuantIMS Batch:	–	CCV Spike Vol (uL):	5
ICAL Date:	012606	IS Std. ID:	AS556
Instrument Method:	CO012606.MTH	IS Spike Vol. (uL):	10
Data Processing Method:	CO012606	Surr. Std. ID:	AS553
SEQ :	IC012606.SEQ	Surr Spike Vol. (uL):	5

Preventive Maintenance Performed ☐ No or ☐ Yes LCS SPIKE STD ID: AS550, 5µL

	Lot/Sample	WO #	Lab File ID	Time	Dilution Factor	Volume Purged	Analyst	Comments
1	BLANK	–	0126001	1158	1	10	JMH	
2	ICAL L6 50µg/L	–	0126002	1253	↓	↓	↓	
3	ICAL L5 25µg/L	–	0126003	1333				
4	ICAL L4 10µg/L	–	0126004	1402				
5	ICAL L3 5µg/L	–	0126005	1450				
6	ICAL L2 2µg/L	–	0126006	1528				
7	ICAL L1 1µg/L	–	0126007	1602				
8	BLANK	–	0126008	1659				
9	MB 01-26-06	–	0126009	1730				
10	LCS 01-26-06	–	0126010	1801				
11								
12								
13								
14								
15				JMH				
16				1/26/06				
17								
18								
19								
20								

Analyst/Date: JM Humphrey / 1/26/06

2nd Level Reviewer/Date: [signature] / 2/2/06

ACS002R0.doc, 1/27/04

Turbochrom Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\IC012606.SEQ
Created by : doug on : 1/26/2006 11:45 AM
Edited by : manager on : 1/26/2006 06:00 PM
Description : ICAL 01/26/06 instrument CO

Number of Times Edited : 2

Sequence File Header Information:

Number of Rows : 14
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Sample	Blank	1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Sample	ICAL L6 50 ug/L	2	ICAL 01260	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	ICAL L5 25 ug/L	3	ICAL 01260	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	ICAL L4 10 ug/L	4	ICAL 01260	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	ICAL L3 5 ug/L	5	ICAL 01260	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	ICAL L2 2 ug/L	6	ICAL 01260	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	ICAL L1 1 ug/L	7	ICAL 01260	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	Blank	8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	MB 01-26-06	9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	LCS 01-26-06	10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample		11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample		12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample		24		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample		25		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

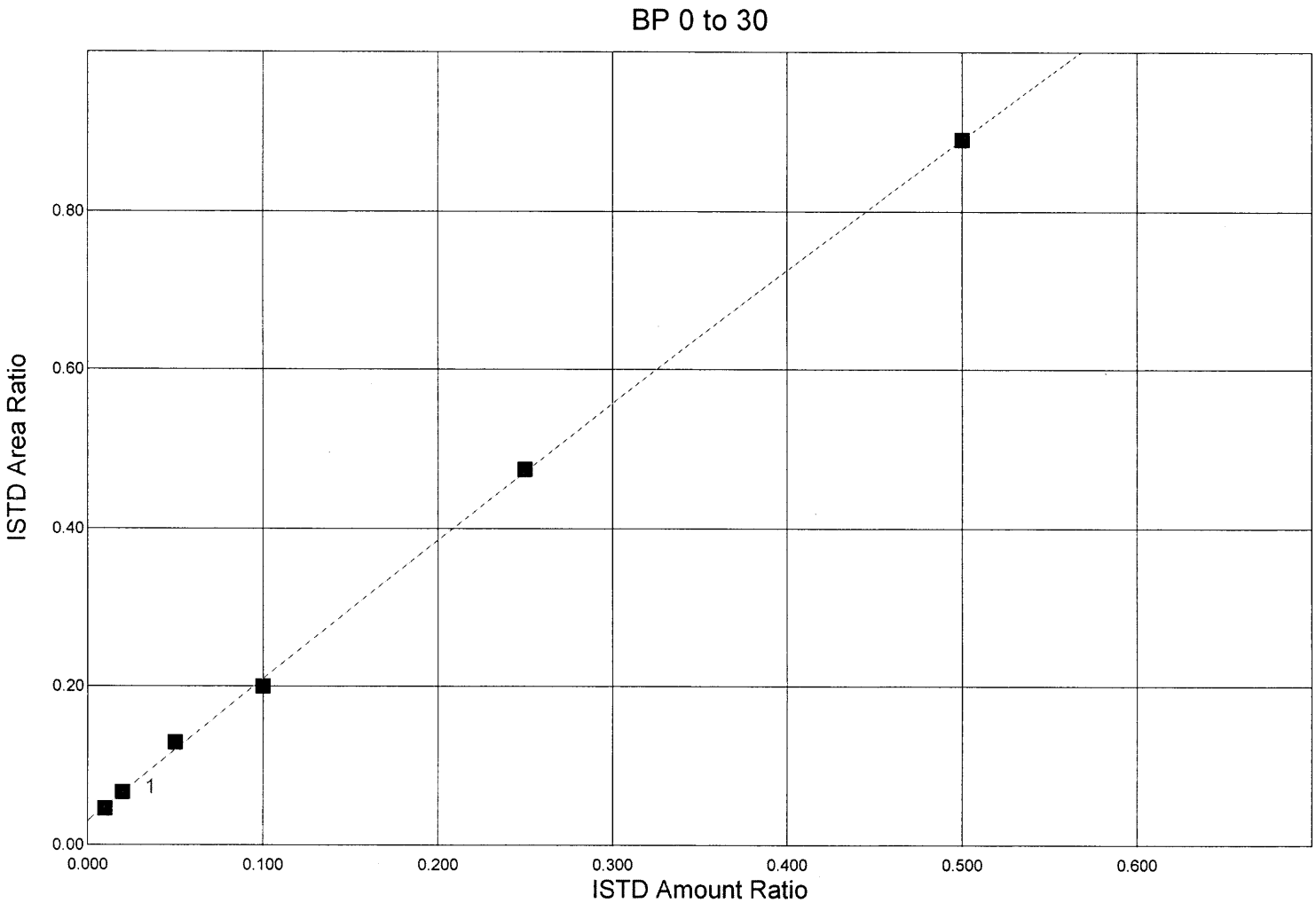
Sequence Process Information - Channel A

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	C0012606	C0012606	C0012606	C0012606	0126001	0126001		0126001	-	-	-	DEFAULT,[
2	-	1	2	C0012606	C0012606	C0012606	C0012606	0126002	0126002		0126002	-	-	-	DEFAULT,[
3	-	1	3	C0012606	C0012606	C0012606	C0012606	0126003	0126003		0126003	-	-	-	DEFAULT,[
4	-	1	4	C0012606	C0012606	C0012606	C0012606	0126004	0126004		0126004	-	-	-	DEFAULT,[
5	-	1	5	C0012606	C0012606	C0012606	C0012606	0126005	0126005		0126005	-	-	-	DEFAULT,[
6	-	1	6	C0012606	C0012606	C0012606	C0012606	0126006	0126006		0126006	-	-	-	DEFAULT,[
7	-	1	7	C0012606	C0012606	C0012606	C0012606	0126007	0126007		0126007	-	-	-	DEFAULT,[
8	-	1	8	C0012606	C0012606	C0012606	C0012606	0126008	0126008		0126008	-	-	-	DEFAULT,[
9	-	1	9	C0012606	C0012606	C0012606	C0012606	0126009	0126009		0126009	-	-	-	DEFAULT,[
10	-	1	10	C0012606	C0012606	C0012606	C0012606	0126010	0126010		0126010	-	-	-	DEFAULT,[
11	-	1	11	C0012606	C0012606	C0012606	C0012606	0126011	0126011		0126011	-	-	-	DEFAULT,[
12	-	1	12	C0012606	C0012606	C0012606	C0012606	0126012	0126012		0126012	-	-	-	DEFAULT,[
13	-	1	24	C0012606	C0012606	C0012606	C0012606	0126013	0126013		0126013	-	-	-	DEFAULT,[
14	-	1	25	C0012606	C0012606	C0012606	C0012606	0126014	0126014		0126014	-	-	-	DEFAULT,[

Fit Analysis Output For Method File: "F:\GC\TURBOC~1\COND\2006DA~1\CO012606.MTH"55
Component Name: "BP 0 to 30"
Date: 1/26/2006 Time: 04:40 PM

Curve Parameters:

Curve #1 : 2nd Order
Weighting Factor = 1.0 (No Weighting) r^2 = 0.999633
Calibration Curve = (0.030637) + (1.810283)X + (-0.181754)X^2

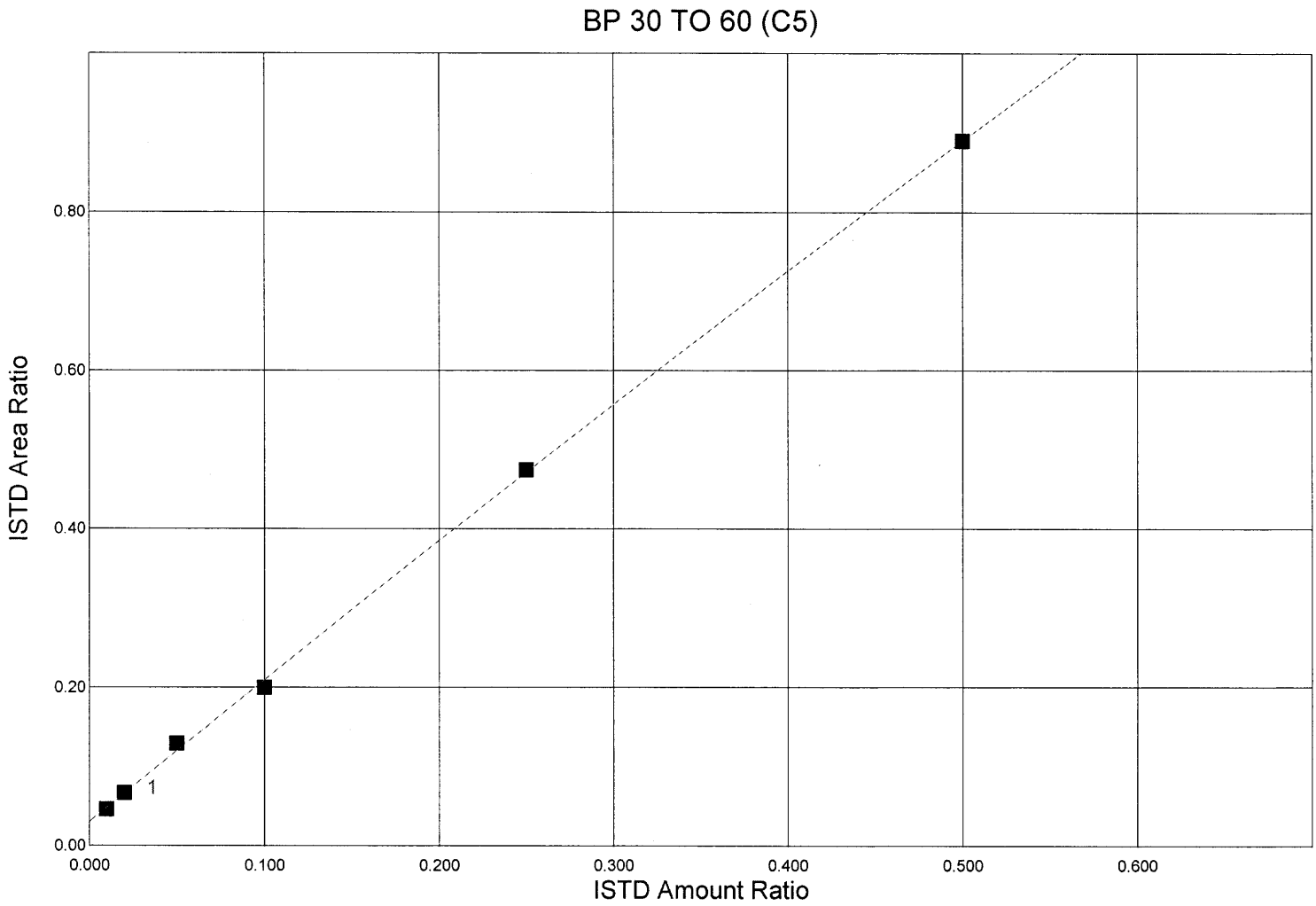


Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
1	0.010000	0.008612	0.001388	16.117	0.046	0.049	-0.003	-5.148
2	0.020000	0.020243	-0.000243	-1.199	0.067	0.067	0.000	0.655
3	0.050000	0.055162	-0.005162	-9.357	0.130	0.121	0.009	7.660
4	0.100000	0.094503	0.005497	5.817	0.200	0.210	-0.010	-4.649
5	0.250000	0.251772	-0.001772	-0.704	0.475	0.472	0.003	0.645
6	0.500000	0.499716	0.000284	0.057	0.890	0.890	-0.000	-0.052

Fit Analysis Output For Method File: "F:\GC\TURBOC~1\COND\2006DA~1\CO012606.MTH"56
Component Name: "BP 30 TO 60 (C5)"
Date: 1/26/2006 Time: 04:41 PM

Curve Parameters:

Curve #1 : 2nd Order
Weighting Factor = 1.0 (No Weighting) r^2 = 0.999633
Calibration Curve = (0.030637) + (1.810283)X + (-0.181754)X^2

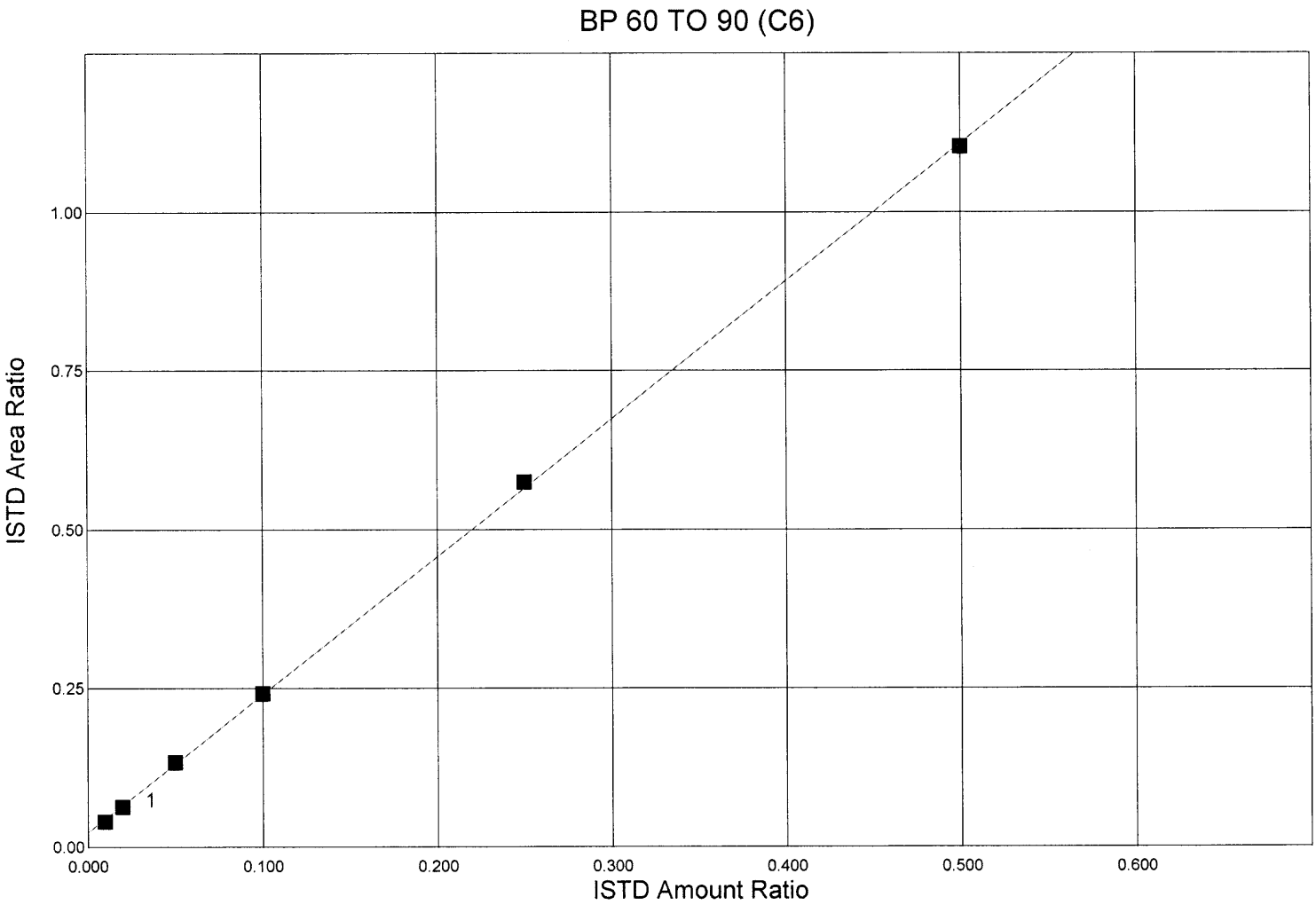


Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
1	0.010000	0.008612	0.001388	16.117	0.046	0.049	-0.003	-5.148
2	0.020000	0.020243	-0.000243	-1.199	0.067	0.067	0.000	0.655
3	0.050000	0.055162	-0.005162	-9.357	0.130	0.121	0.009	7.660
4	0.100000	0.094503	0.005497	5.817	0.200	0.210	-0.010	-4.649
5	0.250000	0.251772	-0.001772	-0.704	0.475	0.472	0.003	0.645
6	0.500000	0.499716	0.000284	0.057	0.890	0.890	-0.000	-0.052

Fit Analysis Output For Method File: "F:\GC\TURBOC~1\COND\2006DA~1\CO012606.MTH" 57
Component Name: "BP 60 TO 90 (C6)"
Date: 1/26/2006 Time: 04:41 PM

Curve Parameters:

Curve #1 : 1st Order
Weighting Factor = 1.0 (No Weighting) r^2 = 0.999824
Calibration Curve = (0.023844) + (2.168463)X

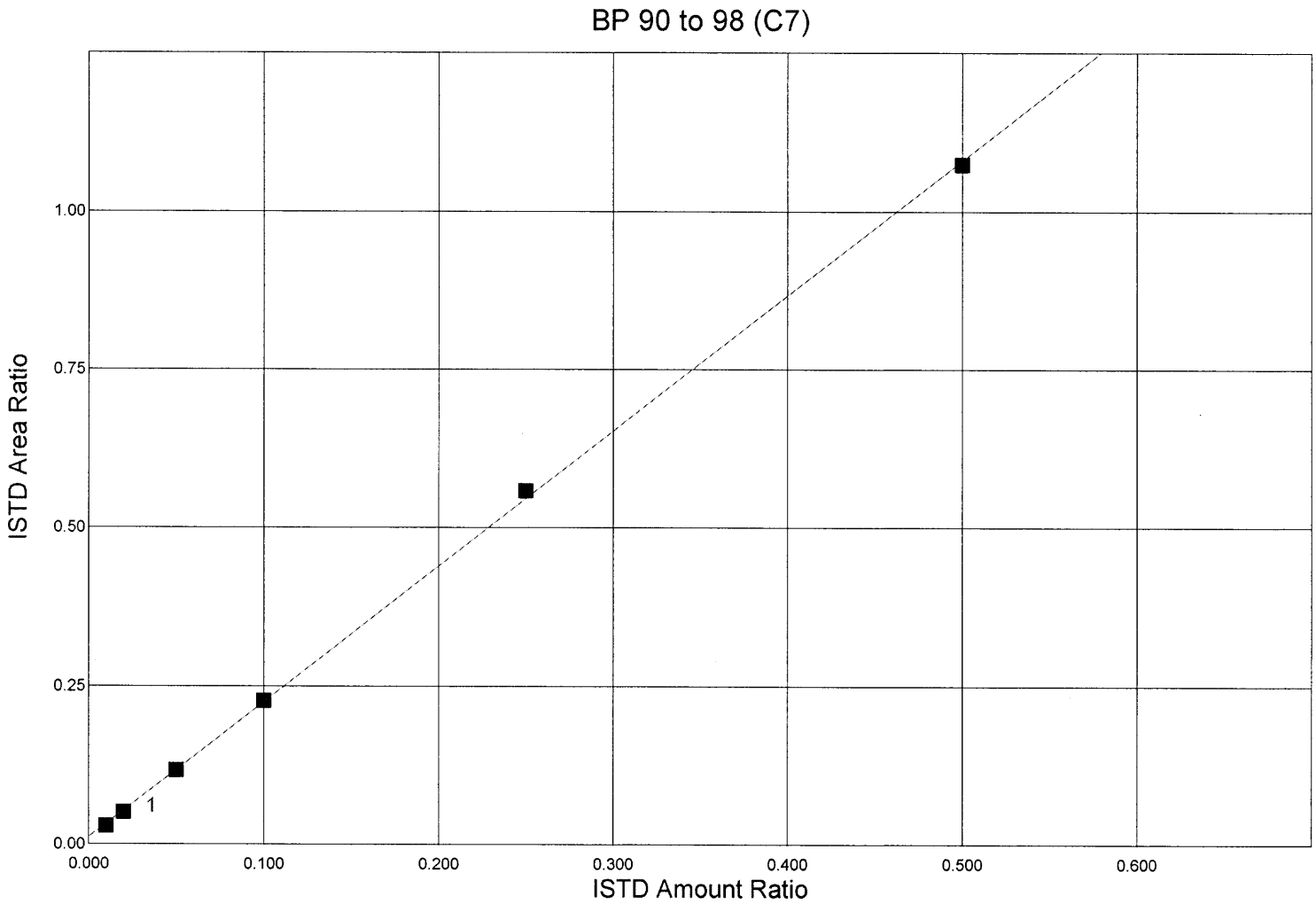


Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
1	0.010000	0.007777	0.002223	28.580	0.041	0.046	-0.005	-10.587
2	0.020000	0.018655	0.001345	7.210	0.064	0.067	-0.003	-4.340
3	0.050000	0.050925	-0.000925	-1.817	0.134	0.132	0.002	1.517
4	0.100000	0.100586	-0.000586	-0.583	0.242	0.241	0.001	0.528
5	0.250000	0.254336	-0.004336	-1.705	0.575	0.566	0.009	1.661
6	0.500000	0.497721	0.002279	0.458	1.103	1.108	-0.005	-0.446

Fit Analysis Output For Method File: "F:\GC\TURBOC~1\COND\2006DA~1\CO012606.MTH" 58
Component Name: "BP 90 to 98 (C7)"
Date: 1/26/2006 Time: 04:41 PM

Curve Parameters:

Curve #1 : 1st Order
Weighting Factor = 1.0 (No Weighting) r^2 = 0.999734
Calibration Curve = (0.012002) + (2.136583)X

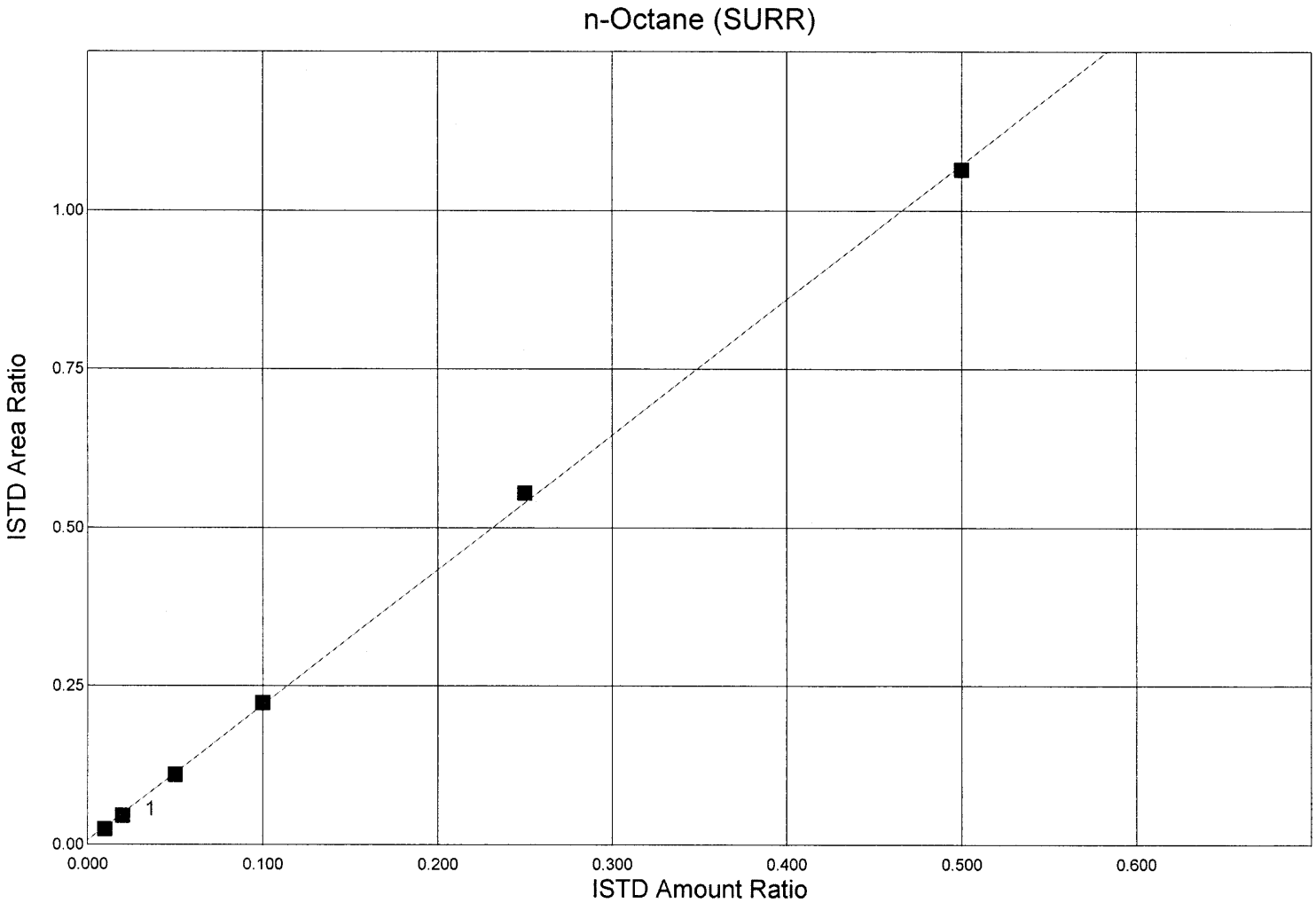


Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
1	0.010000	0.008176	0.001824	22.307	0.029	0.033	-0.004	-11.678
2	0.020000	0.018457	0.001543	8.361	0.051	0.055	-0.003	-6.024
3	0.050000	0.049624	0.000376	0.757	0.118	0.119	-0.001	-0.676
4	0.100000	0.100915	-0.000915	-0.907	0.228	0.226	0.002	0.866
5	0.250000	0.255750	-0.005750	-2.248	0.558	0.546	0.012	2.249
6	0.500000	0.497078	0.002922	0.588	1.074	1.080	-0.006	-0.578

Fit Analysis Output For Method File: "F:\GC\TURBOC~1\COND\2006DA~1\CO012606.MTH"59
Component Name: "n-Octane (SURR)"
Date: 1/26/2006 Time: 04:41 PM

Curve Parameters:

Curve #1 : 1st Order
Weighting Factor = 1.0 (No Weighting) r^2 = 0.999593
Calibration Curve = (0.007471) + (2.130088)X



Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
1	0.010000	0.008285	0.001715	20.704	0.025	0.029	-0.004	-12.699
2	0.020000	0.018169	0.001831	10.076	0.046	0.050	-0.004	-7.788
3	0.050000	0.048568	0.001432	2.949	0.111	0.114	-0.003	-2.677
4	0.100000	0.101473	-0.001473	-1.452	0.224	0.220	0.003	1.423
5	0.250000	0.257098	-0.007098	-2.761	0.555	0.540	0.015	2.800
6	0.500000	0.496407	0.003593	0.724	1.065	1.073	-0.008	-0.714

Turbochrom Method File : F:\GC\TURBOC~1\COND\2006DA~1\CO012606.MTH
Created by : dcw on : 1/26/2006 11:40 AM
Edited by : manager on : 1/26/2006 04:40 PM
Description : Ical method for 01-26-06 Instrument WA

Number of Times Edited : 1
Number of Times Calibrated : 263

Instrument Conditions :

Packed Column GC -

Instrument	: VARIAN 3300
Column	: DB-624
Column Length	: 75m x 0.53mm
Carrier Gas	: He
Flow Rate	: 10mL/min
Temperature	: 40 (6 min) to 200 (0 min) @ 10 deg/min
Injector Temp.	: 150C
Detector 1	: FID 325 deg , 8x10-12 amps/mV
PAT	: 60 mL/min N2 purge, 7.5 min
Trap D T/C	
Dry purge	: 2.0 min
Desorb preheat	: 175C
Desorb	: 180C, 4 min
Bake	: 220C, 7 min

Valve,line110C; Mount 105

Instrument Control Method:

Instrument name : COND

Interface Parameters :

Delay Time	: 0.00 min.
Run Time	: 22.00 min.
Sampling Rate	: 10.0000 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: 6000.000 mV
Channel B -- Pages: 1 Offset: 0.000 mV Scale: 1000.000 mV

Processing Parameters :

Bunch Factor	: 1 points
Noise Threshold	: 500 µV
Area Threshold	: 10000.00 µV

Peak Separation Criteria

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

Exponential Skim Criteria

```
    Peak Height Ratio      : 100.000
    Adjusted Height Ratio : 100.000
    Valley Height Ratio    : 100.000
```

Baseline Timed Events :

```
    Event #1 -  BF 4.000 at 2.187
    Event #2 - +P  at 2.248
    Event #3 - +M  at 2.288
    Event #4 -  S  at 2.717
    Event #5 -  S  at 4.148
    Event #6 - -M  at 5.034
    Event #7 - -P  at 18.058
```

Annotated Replot Parameters :

```
    Offset will be autozeroed
        Plot Scale    : 6000.000 mV

    Number of Pages       : 1
    Plot Title    : Chromatogram
    X-Axis Label : Time [min]
    Y-Axis Label : Response [mV]
    Orientation       : Landscape
    Retention Labels : Top of Plot
    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       : ug/L
    Void Time                : 0.000 min
    Correct amounts during calibration : YES
    Reject outliers during calibration : NO
    An Internal Standard calibration will be used
    Unknown peaks will use the response factor of the nearest component
```

Component Information :

```
    BP 0 to 30
       Component Type      : Timed Group
       Start Time          : 1.140 min     End Time      : 3.760 min
       Reference Component:
       Internal Standard  : 4-Bromofluorobenzene
       Quantitation will use calibration reference : BP 30 TO 60 (C5)

    Acetone
       Component Type      : Single Peak Component
       Retention Time      : 2.781 min     Search Window: 3.00 s, 0.00 %
       Reference Component:
       Find peak closest to expected RT in window
       Internal Standard  :
       Quantitation will be done using response factor = 1.000000e+06
```

Methylene chloride
Component Type : Single Peak Component
Retention Time : 4.278 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Internal Standard :
Quantitation will be done using response factor = 1.000000e+06

BP 30 TO 60 (C5)
Component Type : Timed Group
Start Time : 3.761 min End Time : 6.300 min
Reference Component:
Internal Standard : 4-Bromofluorobenzene
Calibrating Area ratio versus Amount ratio using a 2nd Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: None
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
1	1.0000	1283152.12	236292.81	0.0462	0.0100	1
2	2.0000	1863543.46	358907.46	0.0672	0.0200	1
3	5.0000	3589316.05	749703.93	0.1299	0.0500	1
4	10.0000	5624529.95	1.21e+06	0.2001	0.1000	1
5	25.0000	13424958.88	3.01e+06	0.4749	0.2500	1
6	50.0000	25249188.23	5.73e+06	0.8899	0.5000	1

Calibration Curve : y = (0.030637) + (1.810283)x + (-0.181754)x^2 + (0.000000)x^3
R-squared : 0.999633

BP 60 TO 90 (C6)
Component Type : Timed Group
Start Time : 6.301 min End Time : 9.450 min
Reference Component:
Internal Standard : 4-Bromofluorobenzene
Calibrating Area ratio versus Amount ratio using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: None
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
1	1.0000	1130296.00	222546.93	0.0407	0.0100	1
2	2.0000	1782821.50	348011.90	0.0643	0.0200	1
3	5.0000	3708950.00	710140.03	0.1343	0.0500	1
4	10.0000	6801492.50	1.27e+06	0.2420	0.1000	1
5	25.0000	16265131.00	3.03e+06	0.5754	0.2500	1
6	50.0000	31300053.00	5.89e+06	1.1031	0.5000	1

Calibration Curve : y = (0.023844) + (2.168463)x + (0.000000)x^2 + (0.000000)x^3

R-squared : 0.999824

BP 90 to 98 (C7)
Component Type : Timed Group
Start Time : 9.451 min End Time : 10.700 min
Reference Component:
Internal Standard : 4-Bromofluorobenzene
Calibrating Area ratio versus Amount ratio using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: None
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
1	1.0000	818267.00	198825.44	0.0295	0.0100	1
2	2.0000	1426234.00	345803.88	0.0514	0.0200	1
3	5.0000	3260217.00	780257.37	0.1180	0.0500	1
4	10.0000	6398215.50	1.54e+06	0.2276	0.1000	1
5	25.0000	15786550.00	3.78e+06	0.5584	0.2500	1
6	50.0000	30474869.00	7.32e+06	1.0740	0.5000	1

Calibration Curve : y = (0.012002) + (2.136583)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999734

Toluene
Component Type : Single Peak Component
Retention Time : 11.767 min Search Window: 0.00 s, 3.00 %
Reference Component:
Find peak closest to expected RT in window
Internal Standard :
Quantitation will be done using response factor = 1.000000e+06

n-Octane (SURR)
Component Type : Single Peak Component
Retention Time : 12.863 min Search Window: 10.00 s, 0.00 %
Reference Component:
Find largest peak in window
Internal Standard : 4-Bromofluorobenzene
Calibrating Area ratio versus Amount ratio using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: None
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
1	1.0000	697429.00	200121.82	0.0251	0.0100	1
2	2.0000	1280310.00	365332.65	0.0462	0.0200	1
3	5.0000	3064014.00	863036.20	0.1109	0.0500	1
4	10.0000	6285873.00	1.79e+06	0.2236	0.1000	1
5	25.0000	15692684.00	4.43e+06	0.5551	0.2500	1
6	50.0000	30214197.50	8.61e+06	1.0649	0.5000	1

Calibration Curve : y = (0.007471) + (2.130088)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999593

4-Bromofluorobenzene
Component Type : Single Peak Component
Retention Time : 15.298 min Search Window: 9.00 s, 0.00 %
Reference Component:
Find largest peak in window
Internal Standard :
Use Average Calibration Factor (Area ratio / Amount ratio)
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
1	100.0000	27765530.23	9.02e+06	1.0000	1.0000	1
2	100.0000	27728173.56	9.05e+06	1.0000	1.0000	1
3	100.0000	27622423.90	8.99e+06	1.0000	1.0000	1
4	100.0000	28109851.00	9.19e+06	1.0000	1.0000	1
5	100.0000	28269389.50	9.24e+06	1.0000	1.0000	1
6	100.0000	28373801.50	9.25e+06	1.0000	1.0000	1

Average Calibration Factor = 1.000000 (%RSD = 0.00)

Calibration Replicate Lists:
Component: BP 0 to 30
Level : 1
This level has no replicate injections

Level : 2
This level has no replicate injections

Level : 3
This level has no replicate injections

Level : 4
This level has no replicate injections

Level : 5
This level has no replicate injections

Component: Acetone
Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
23577825.55	6.56068e+06	250.0000	0.0000	0.0000	9/8/2004	02:29 PM	GEDIT

Component: Methylene chloride
Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
16564168.00	5.03300e+06	125.0000	0.0000	0.0000	9/8/2004	02:29 PM	GEDIT

Component: BP 30 TO 60 (C5)

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
1283152.12	236292.81	1.0000	0.0462	0.0100	1/26/2006	04:40 PM	0126007.

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
1863543.46	358907.46	2.0000	0.0672	0.0200	1/26/2006	04:40 PM	0126006.

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
3589316.05	749703.93	5.0000	0.1299	0.0500	1/26/2006	04:40 PM	0126005.

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
5624529.95	1.20676e+06	10.0000	0.2001	0.1000	1/26/2006	04:40 PM	0126004.

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
13424958.88	3.01189e+06	25.0000	0.4749	0.2500	1/26/2006	04:40 PM	0126003.

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
25249188.23	5.73428e+06	50.0000	0.8899	0.5000	1/26/2006	04:40 PM	0126002.

Component: BP 60 TO 90 (C6)

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
1130296.00	222546.93	1.0000	0.0407	0.0100	1/26/2006	04:40 PM	0126007.

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
1782821.50	348011.90	2.0000	0.0643	0.0200	1/26/2006	04:40 PM	0126006.

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
3708950.00	710140.03	5.0000	0.1343	0.0500	1/26/2006	04:40 PM	0126005.

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
6801492.50	1.26731e+06	10.0000	0.2420	0.1000	1/26/2006	04:40 PM	0126004.

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
16265131.00	3.03222e+06	25.0000	0.5754	0.2500	1/26/2006	04:40 PM	0126003.

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
31300053.00	5.88506e+06	50.0000	1.1031	0.5000	1/26/2006	04:40 PM	0126002.

Component: BP 90 to 98 (C7)

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
818267.00	198825.44	1.0000	0.0295	0.0100	1/26/2006	04:40 PM	0126007.

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
1426234.00	345803.88	2.0000	0.0514	0.0200	1/26/2006	04:40 PM	0126006.

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
3260217.00	780257.37	5.0000	0.1180	0.0500	1/26/2006	04:40 PM	0126005.

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
6398215.50	1.53856e+06	10.0000	0.2276	0.1000	1/26/2006	04:40 PM	0126004.

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
15786550.00	3.78166e+06	25.0000	0.5584	0.2500	1/26/2006	04:40 PM	0126003.

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
30474869.00	7.32410e+06	50.0000	1.0740	0.5000	1/26/2006	04:40 PM	0126002.

Component: Toluene

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
48358005.50	9.99720e+06	125.0000	0.0000	0.0000	9/8/2004	02:28 PM	GEDIT

Component: n-Octane (SURR)

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
697429.00	200121.82	1.0000	0.0251	0.0100	1/26/2006	04:40 PM	0126007.

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
1280310.00	365332.65	2.0000	0.0462	0.0200	1/26/2006	04:40 PM	0126006.

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
3064014.00	863036.20	5.0000	0.1109	0.0500	1/26/2006	04:40 PM	0126005.

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
6285873.00	1.79050e+06	10.0000	0.2236	0.1000	1/26/2006	04:40 PM	0126004.

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
15692684.00	4.43319e+06	25.0000	0.5551	0.2500	1/26/2006	04:40 PM	0126003.

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
30214197.50	8.60759e+06	50.0000	1.0649	0.5000	1/26/2006	04:40 PM	0126002.

Component: 4-Bromofluorobenzene

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
27765530.23	9.01631e+06	100.0000	1.0000	1.0000	1/26/2006	04:40 PM	0126007.

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
27728173.56	9.05160e+06	100.0000	1.0000	1.0000	1/26/2006	04:40 PM	0126006.

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
27622423.90	8.99106e+06	100.0000	1.0000	1.0000	1/26/2006	04:40 PM	0126005.

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
28109851.00	9.18568e+06	100.0000	1.0000	1.0000	1/26/2006	04:40 PM	0126004.

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
28269389.50	9.24130e+06	100.0000	1.0000	1.0000	1/26/2006	04:40 PM	0126003.

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date/Time		File
28373801.50	9.24865e+06	100.0000	1.0000	1.0000	1/26/2006	04:40 PM	0126002.

Software Version: 4.1<2F12>
Sample Name : ICAL L6 50 ug/L Time : 1/26/2006 01:15 PM
Sample Number: 2 Study : ICAL 012606
Operator :

Instrument : COND Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2100574715 Data Acquisition Time: 1/26/2006 12:53 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0126002.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0126002.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\IC012606.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	37.1086	37.1086	148.4344	148.4344	17871033.53		4.69
	5.030	BP 30 TO 60 (C5)	55.2409	55.2409	220.9634	220.9634	25249188.23		4.40
	7.875	BP 60 TO 90 (C6)	50.7525	50.7525	203.0101	203.0101	31300053.00		5.32
	10.075	BP 90 to 98 (C7)	49.4583	49.4583	197.8332	197.8332	30474869.00		4.16
21	12.865	n-Octane (SURR)	48.7432	48.7432	194.9728	194.9728	30214197.50	*BB	3.51
23	15.299	4-Bromofluorobenzene	100.0000	100.0000	400.0000	400.0000	28373801.50	*BB	3.07
			341.3035	341.3035	1365.2140	1365.2140	1.63e+08		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	2.002		0.0000	0.0000	0.0000	0.0000	23622.00	BB	7.02
2	2.251		0.0000	0.0000	0.0000	0.0000	20645.00	*BB	1.79
3	2.389		0.0000	0.0000	0.0000	0.0000	4742307.09	*BV	3.13
4	2.512		0.0000	0.0000	0.0000	0.0000	2157368.70	*VV	8.96
5	2.719		0.0000	0.0000	0.0000	0.0000	387432.57	*VV	2.94
6	2.821		0.0000	0.0000	0.0000	0.0000	9672342.22	*VV	5.35
7	3.464		0.0000	0.0000	0.0000	0.0000	867315.95	*VV	9.07
			0.0000	0.0000	0.0000	0.0000	17871033.53		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
8	3.928		0.0000	0.0000	0.0000	0.0000	22704414.70	*VV	4.15
9	4.161		0.0000	0.0000	0.0000	0.0000	693222.96	*VV	5.16
10	4.275	Methylene chloride	0.0000	0.0000	0.0000	0.0000	1851550.57	*VB	14.75
			0.0000	0.0000	0.0000	0.0000	25249188.23		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
11	6.831		0.0000	0.0000	0.0000	0.0000	30767152.00	*BB	5.34
12	7.481		0.0000	0.0000	0.0000	0.0000	44206.50	*BB	4.62
13	7.814		0.0000	0.0000	0.0000	0.0000	141930.00	*BB	5.03
14	8.239		0.0000	0.0000	0.0000	0.0000	273626.00	*BB	4.14
15	8.578		0.0000	0.0000	0.0000	0.0000	73138.50	*BB	4.21
			0.0000	0.0000	0.0000	0.0000	31300053.00		

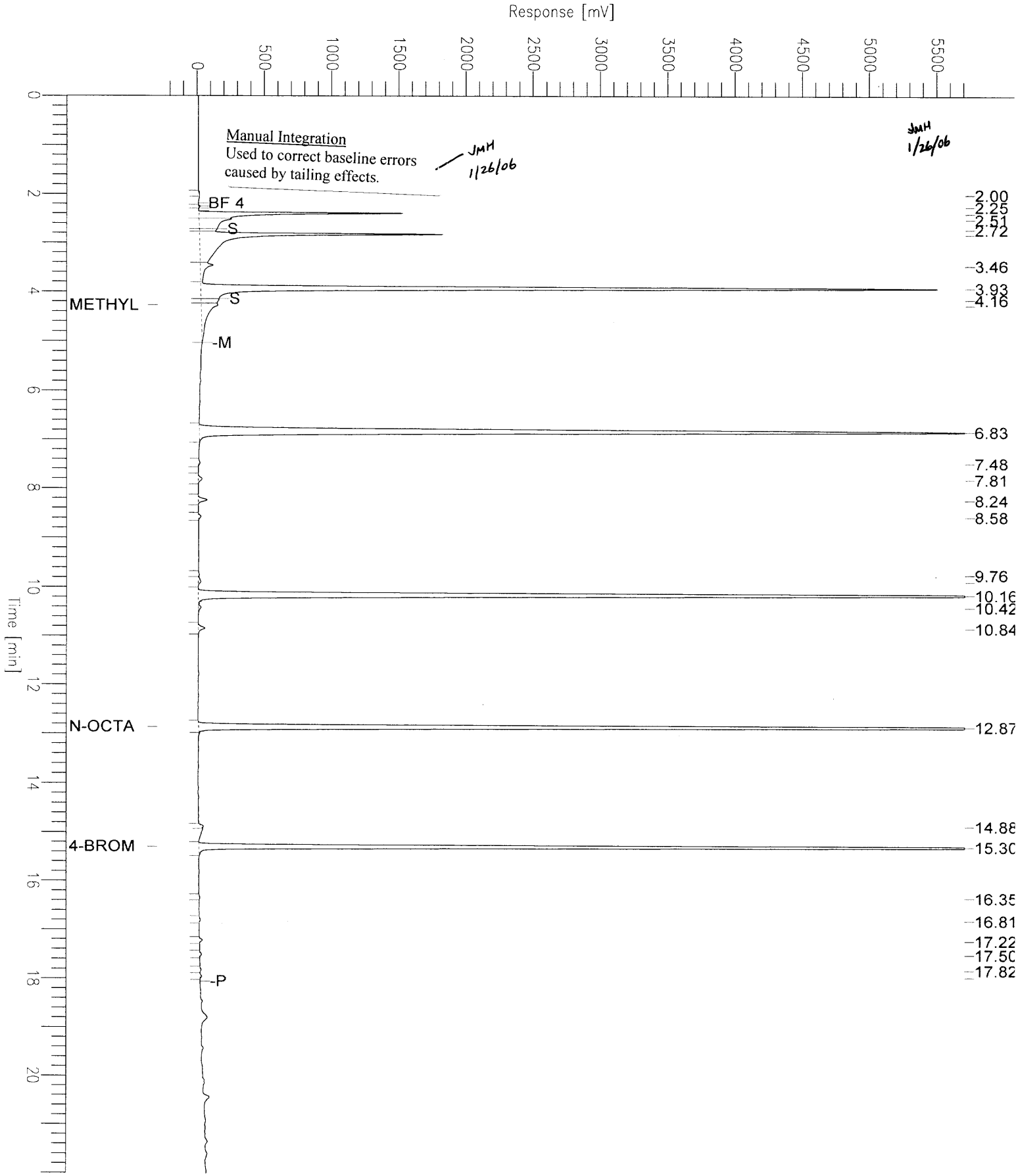
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
16	9.755		0.0000	0.0000	0.0000	0.0000	24104.80	*BV	4.13
17	9.890		0.0000	0.0000	0.0000	0.0000	101489.20	*VB	5.76
18	10.162		0.0000	0.0000	0.0000	0.0000	30222065.00	*BE	4.15
19	10.415		0.0000	0.0000	0.0000	0.0000	127210.00	*EB	6.26
			0.0000	0.0000	0.0000	0.0000	30474869.00		

Chromatogram

Sample Name : ICAL L6 50 ug/L
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0126002.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 2 Page 1 of 1
Date : 1/26/2006 01:15 PM
Time of Injection: 1/26/2006 12:53 PM
Low Point : -290.25 mV High Point : 5709.75 mV
Plot Scale: 6000.0 mV



Software Version: 4.1<2F12>
Sample Name : ICAL L5 25 ug/L Time : 1/26/2006 01:55 PM
Sample Number: 3 Study : ICAL 012606
Operator :

Instrument : COND Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2100574715 Data Acquisition Time: 1/26/2006 01:33 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0126003.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0126003.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\IC012606.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	27.6637	27.6637	110.6548	110.6548	13697567.66		4.81
	5.030	BP 30 TO 60 (C5)	27.0520	27.0520	108.2080	108.2080	13424958.88		4.46
	7.875	BP 60 TO 90 (C6)	26.0843	26.0843	104.3374	104.3374	16265131.00		5.36
	10.075	BP 90 to 98 (C7)	25.5066	25.5066	102.0265	102.0265	15786550.00		4.17
20	12.857	n-Octane (SURR)	25.2893	25.2893	101.1572	101.1572	15692684.00	*BB	3.54
22	15.293	4-Bromofluorobenzene	100.0000	100.0000	400.0000	400.0000	28269389.50	*BB	3.06
			231.5960	231.5960	926.3838	926.3838	1.03e+08		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	1.999		0.0000	0.0000	0.0000	0.0000	32157.50	BB	8.55
2	2.243		0.0000	0.0000	0.0000	0.0000	16189.00	*BB	1.95
3	2.379		0.0000	0.0000	0.0000	0.0000	3463433.08	*BV	3.08
4	2.504		0.0000	0.0000	0.0000	0.0000	1886428.51	*VV	9.79
5	2.717		0.0000	0.0000	0.0000	0.0000	242451.17	*VV	2.29
6	2.810	Acetone	0.0000	0.0000	0.0000	0.0000	7361155.79	*VV	5.49
7	3.450		0.0000	0.0000	0.0000	0.0000	695752.61	*VV	9.68
			0.0000	0.0000	0.0000	0.0000	13697567.66		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
8	3.912		0.0000	0.0000	0.0000	0.0000	12040186.15	*VV	4.22
9	4.148		0.0000	0.0000	0.0000	0.0000	319206.27	*VV	4.06
10	4.262	Methylene chloride	0.0000	0.0000	0.0000	0.0000	1065566.47	*VB	13.33
			0.0000	0.0000	0.0000	0.0000	13424958.88		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
11	6.812		0.0000	0.0000	0.0000	0.0000	15871084.00	*BB	5.40
12	7.470		0.0000	0.0000	0.0000	0.0000	35959.00	*BB	4.59
13	7.801		0.0000	0.0000	0.0000	0.0000	73475.00	*BB	5.00
14	8.225		0.0000	0.0000	0.0000	0.0000	200242.00	*BB	4.12
15	8.562		0.0000	0.0000	0.0000	0.0000	84371.00	*BB	4.21
			0.0000	0.0000	0.0000	0.0000	16265131.00		

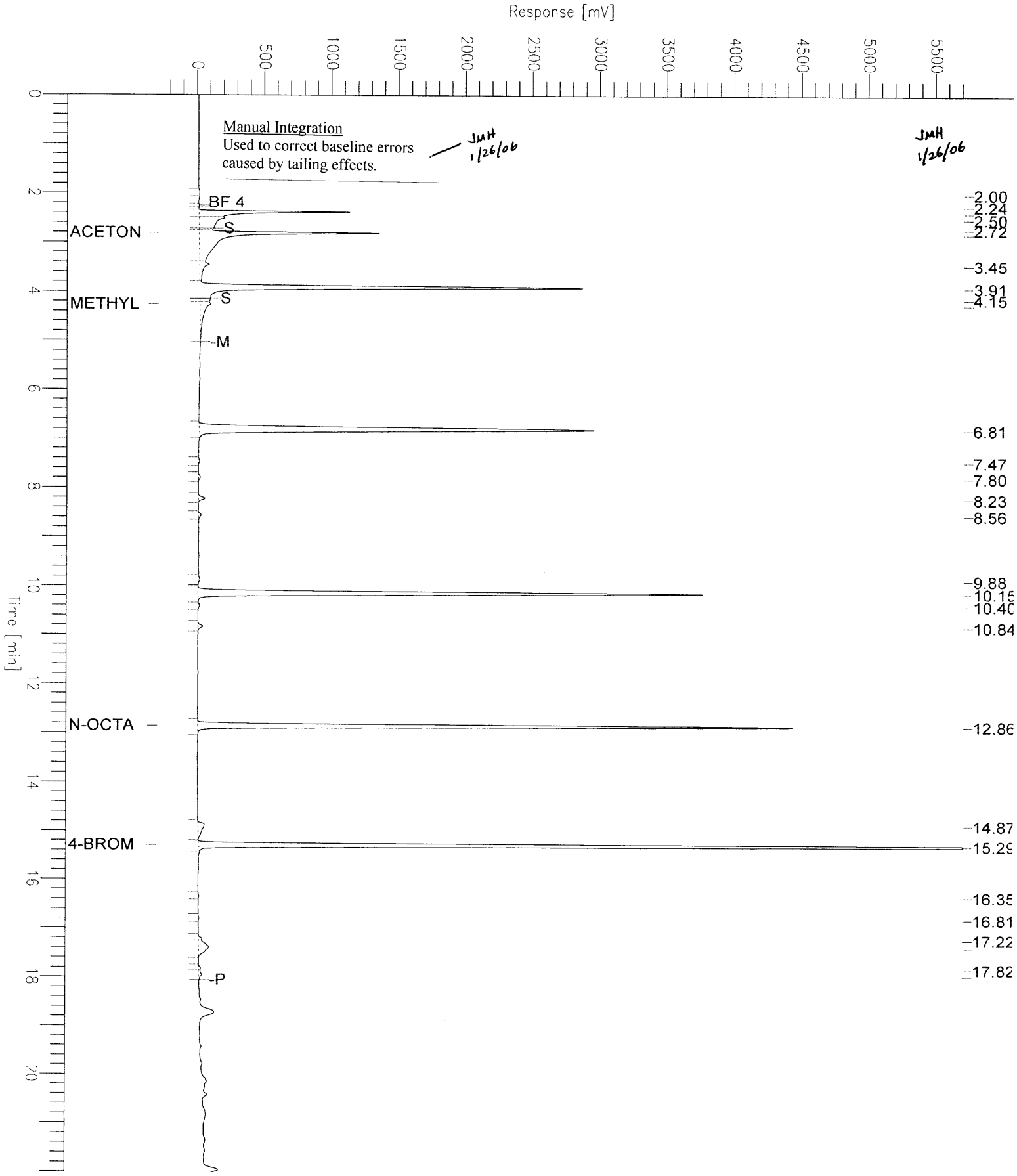
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
16	9.881		0.0000	0.0000	0.0000	0.0000	56008.00	*BB	4.80
17	10.146		0.0000	0.0000	0.0000	0.0000	15684306.00	*BB	4.17
18	10.402		0.0000	0.0000	0.0000	0.0000	46236.00	*BB	3.65
			0.0000	0.0000	0.0000	0.0000	15786550.00		

Chromatogram

Sample Name : ICAL L5 25 ug/L
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0126003.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 3 Page 1 of 1
Date : 1/26/2006 01:55 PM
Time of Injection: 1/26/2006 01:33 PM
Low Point : -290.05 mV High Point : 5709.95 mV
Plot Scale: 6000.0 mV



Software Version: 4.1<2F12>
Sample Name : ICAL L4 10 ug/L Time : 1/26/2006 02:24 PM
Sample Number: 4 Study : ICAL 012606
Operator :

Instrument : COND Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2100574715 Data Acquisition Time: 1/26/2006 02:02 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0126004.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0126004.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\IC012606.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	21.5798	21.5798	86.3190	86.3190	10888733.36		5.02
	5.030	BP 30 TO 60 (C5)	10.3177	10.3177	41.2706	41.2706	5624529.95		4.66
	7.875	BP 60 TO 90 (C6)	10.5011	10.5011	42.0042	42.0042	6801492.50		5.37
	10.075	BP 90 to 98 (C7)	10.1393	10.1393	40.5572	40.5572	6398215.50		4.16
20	12.868	n-Octane (SURR)	10.0371	10.0371	40.1483	40.1483	6285873.00	*BB	3.51
22	15.305	4-Bromofluorobenzene	100.0000	100.0000	400.0000	400.0000	28109851.00	*BB	3.06
			162.5748	162.5748	650.2994	650.2994	64108695.31		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	2.001		0.0000	0.0000	0.0000	0.0000	33535.00	BB	9.20
2	2.244		0.0000	0.0000	0.0000	0.0000	11090.00	*BB	1.95
3	2.382		0.0000	0.0000	0.0000	0.0000	2707779.42	*BV	3.26
4	2.509		0.0000	0.0000	0.0000	0.0000	1416980.82	*VV	9.18
5	2.717		0.0000	0.0000	0.0000	0.0000	194523.28	*VV	2.51
6	2.815	Acetone	0.0000	0.0000	0.0000	0.0000	5898991.63	*VV	5.70
7	3.457		0.0000	0.0000	0.0000	0.0000	625833.21	*VV	10.31
			0.0000	0.0000	0.0000	0.0000	10888733.36		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
8	3.922		0.0000	0.0000	0.0000	0.0000	4893990.56	*VV	4.36
9	4.148		0.0000	0.0000	0.0000	0.0000	140691.15	*VV	4.10
10	4.275	Methylene chloride	0.0000	0.0000	0.0000	0.0000	589848.24	*VB	11.64
			0.0000	0.0000	0.0000	0.0000	5624529.95		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
11	6.826		0.0000	0.0000	0.0000	0.0000	6497967.00	*BB	5.43
12	7.485		0.0000	0.0000	0.0000	0.0000	26075.00	*BB	4.60
13	7.811		0.0000	0.0000	0.0000	0.0000	29248.00	*BB	4.70
14	8.239		0.0000	0.0000	0.0000	0.0000	165367.00	*BB	4.18
15	8.582		0.0000	0.0000	0.0000	0.0000	82835.50	*BB	4.25
			0.0000	0.0000	0.0000	0.0000	6801492.50		

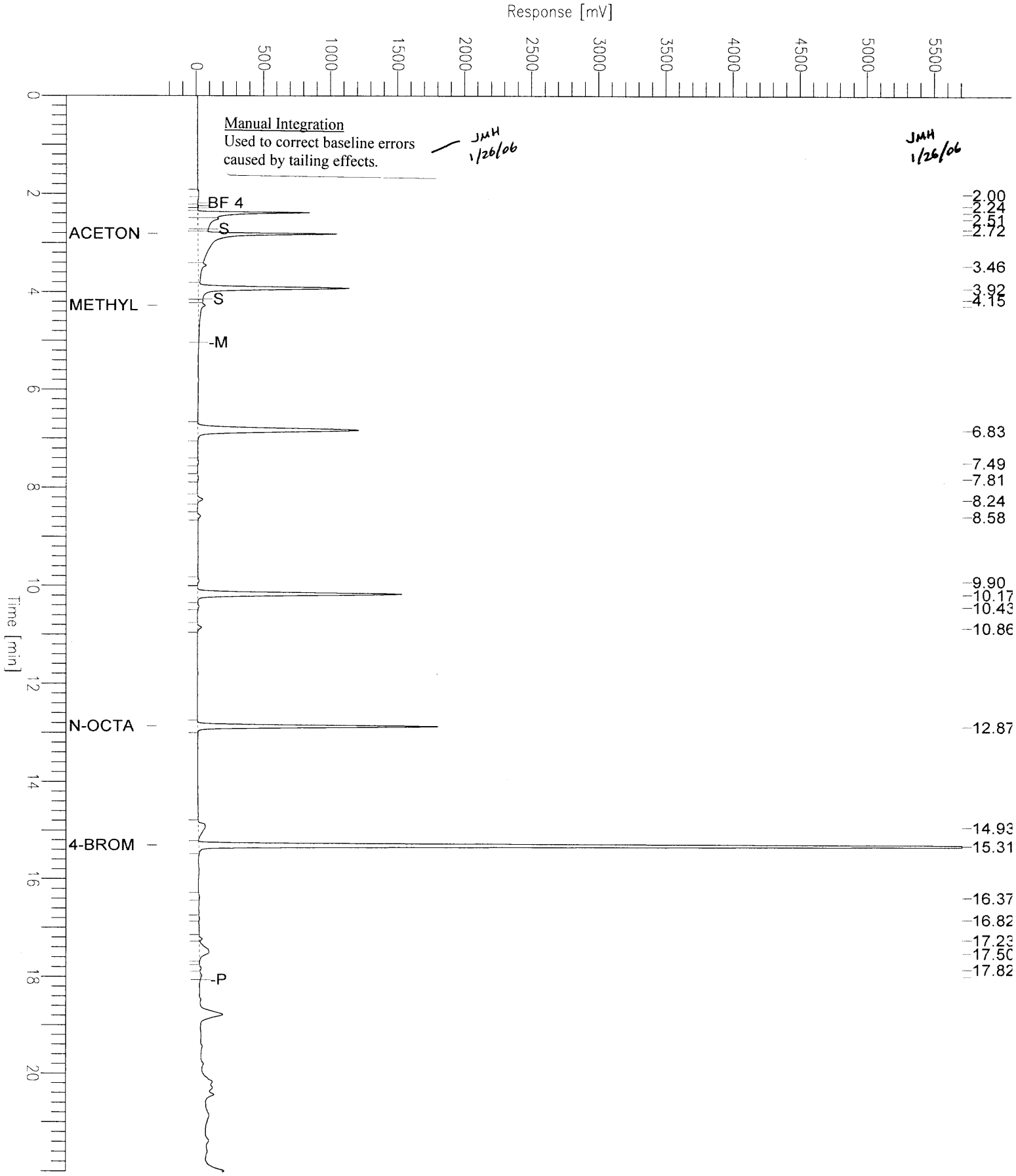
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
16	9.902		0.0000	0.0000	0.0000	0.0000	38375.00	*BB	4.28
17	10.167		0.0000	0.0000	0.0000	0.0000	6329734.50	*BB	4.16
18	10.427		0.0000	0.0000	0.0000	0.0000	30106.00	*BB	3.47
			0.0000	0.0000	0.0000	0.0000	6398215.50		

Chromatogram

Sample Name : ICAL L4 10 ug/L
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0126004.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 4 Page 1 of 1
Date : 1/26/2006 02:24 PM
Time of Injection: 1/26/2006 02:02 PM
Low Point : -290.32 mV High Point : 5709.68 mV
Plot Scale: 6000.0 mV



Software Version: 4.1<2F12>
Sample Name : ICAL L3 5 ug/L Time : 1/26/2006 03:12 PM
Sample Number: 5 Study : ICAL 012606
Operator :

Instrument : COND Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2100574715 Data Acquisition Time: 1/26/2006 02:50 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0126005.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0126005.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\IC012606.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	38.3790	38.3790	153.5160	153.5160	17923421.05		4.68
	5.030	BP 30 TO 60 (C5)	6.2414	6.2414	24.9654	24.9654	3589316.05		4.79
	7.875	BP 60 TO 90 (C6)	5.4677	5.4677	21.8707	21.8707	3708950.00		5.22
	10.075	BP 90 to 98 (C7)	5.0487	5.0487	20.1949	20.1949	3260217.00		4.18
19	12.863	n-Octane (SURR)	4.8520	4.8520	19.4080	19.4080	3064014.00	*BB	3.55
21	15.298	4-Bromofluorobenzene	100.0000	100.0000	400.0000	400.0000	27622423.90	*VB	3.07
			159.9887	159.9887	639.9550	639.9550	59168341.99		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	1.989		0.0000	0.0000	0.0000	0.0000	28725.50	BB	6.21
2	2.238		0.0000	0.0000	0.0000	0.0000	26806.50	*BB	2.00
3	2.374		0.0000	0.0000	0.0000	0.0000	4305745.49	*BV	2.81
4	2.497		0.0000	0.0000	0.0000	0.0000	2426956.50	*VV	11.13
5	2.717		0.0000	0.0000	0.0000	0.0000	265967.41	*VV	2.02
6	2.803	Acetone	0.0000	0.0000	0.0000	0.0000	9712149.23	*VV	5.33
7	3.443		0.0000	0.0000	0.0000	0.0000	1157070.42	*VV	11.14
			0.0000	0.0000	0.0000	0.0000	17923421.05		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
8	3.902		0.0000	0.0000	0.0000	0.0000	3010926.75	*VV	4.38
9	4.253	Methylene chloride	0.0000	0.0000	0.0000	0.0000	551275.80	*VB	9.70
10	5.773		0.0000	0.0000	0.0000	0.0000	27113.50	*BB	4.60
			0.0000	0.0000	0.0000	0.0000	3589316.05		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
11	6.805		0.0000	0.0000	0.0000	0.0000	3312787.00	*BB	5.36
12	7.470		0.0000	0.0000	0.0000	0.0000	42416.00	*BB	4.66
13	8.226		0.0000	0.0000	0.0000	0.0000	250474.00	*BB	4.24
14	8.568		0.0000	0.0000	0.0000	0.0000	103273.00	*BB	4.34
			0.0000	0.0000	0.0000	0.0000	3708950.00		

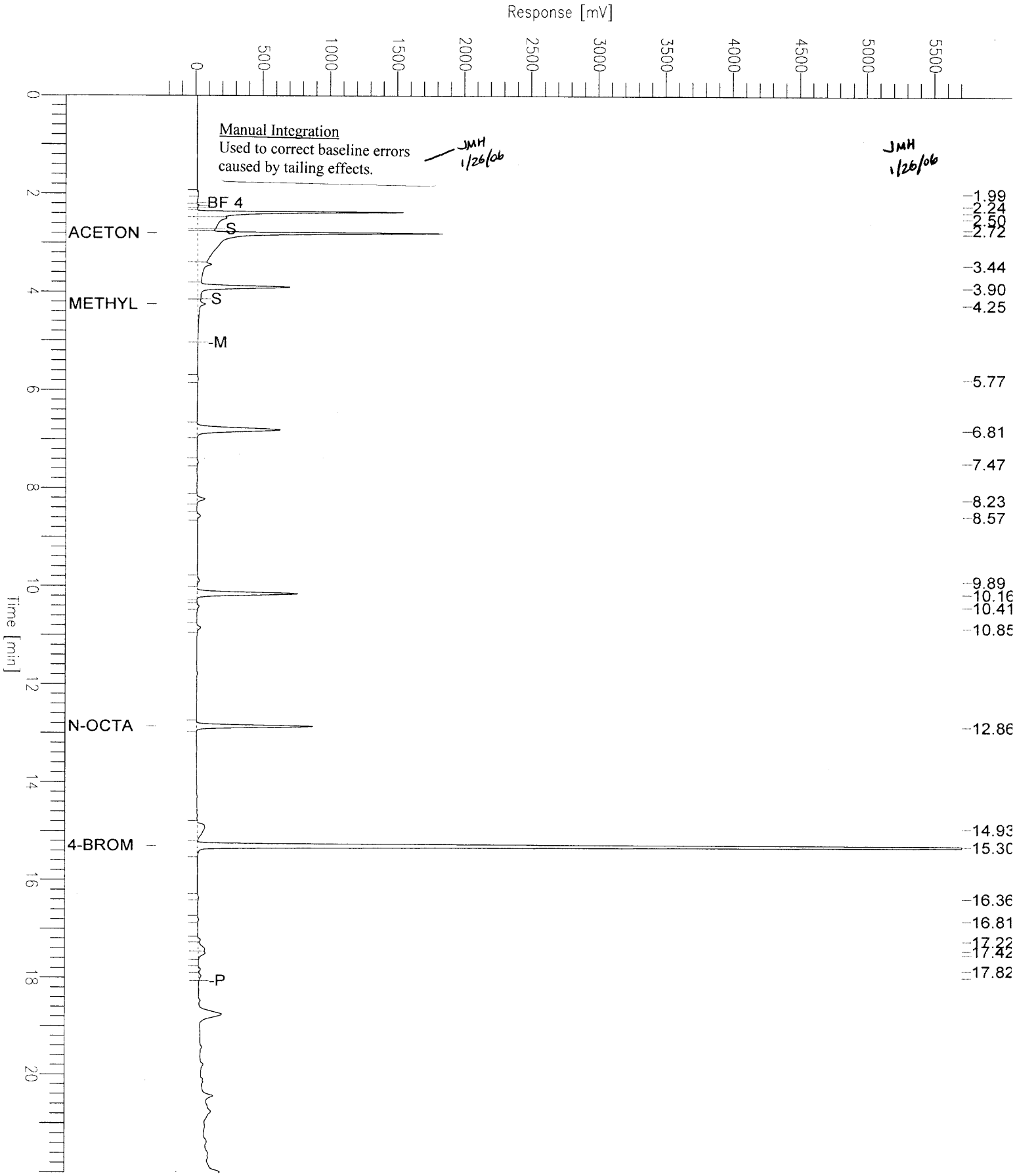
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
15	9.892		0.0000	0.0000	0.0000	0.0000	79497.00	*BB	4.82
16	10.155		0.0000	0.0000	0.0000	0.0000	3131541.50	*BB	4.18
17	10.414		0.0000	0.0000	0.0000	0.0000	49178.50	*BB	3.41
			0.0000	0.0000	0.0000	0.0000	3260217.00		

Chromatogram

Sample Name : ICAL L3 5 ug/L
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0126005.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 5 Page 1 of 1
Date : 1/26/2006 03:12 PM
Time of Injection: 1/26/2006 02:50 PM
Low Point : -290.16 mV High Point : 5709.84 mV
Plot Scale: 6000.0 mV



Software Version: 4.1<2F12>
Sample Name : ICAL L2 2 ug/L
Sample Number: 6
Operator :

Time : 1/26/2006 03:50 PM
Study : ICAL 012606

Instrument : COND
AutoSampler :
Rack/Vial : 0/0

Channel : A A/D mV Range : 10000

Interface Serial # : 2100574715 Data Acquisition Time: 1/26/2006 03:28 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0126006.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0126006.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\IC012606.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	25.9743	25.9743	103.8972	103.8972	12694927.20		4.68
	5.030	BP 30 TO 60 (C5)	2.6563	2.6563	10.6252	10.6252	1863543.46		5.19
	7.875	BP 60 TO 90 (C6)	2.1969	2.1969	8.7877	8.7877	1782821.50		5.12
	10.075	BP 90 to 98 (C7)	1.9554	1.9554	7.8215	7.8215	1426234.00		4.12
18	12.856	n-Octane (SURR)	1.8727	1.8727	7.4910	7.4910	1280310.00	*BB	3.50
20	15.290	4-Bromofluorobenzene	100.0000	100.0000	400.0000	400.0000	27728173.56	*VB	3.06
			134.6557	134.6557	538.6226	538.6226	46776009.72		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	1.994		0.0000	0.0000	0.0000	0.0000	27739.00	BB	6.45
2	2.241		0.0000	0.0000	0.0000	0.0000	16819.00	*BB	1.93
3	2.378		0.0000	0.0000	0.0000	0.0000	3040201.63	*BV	2.83
4	2.502		0.0000	0.0000	0.0000	0.0000	1686542.24	*VV	10.53
5	2.717		0.0000	0.0000	0.0000	0.0000	224293.20	*VV	2.39
6	2.808	Acetone	0.0000	0.0000	0.0000	0.0000	6883080.55	*VV	5.29
7	3.452		0.0000	0.0000	0.0000	0.0000	816251.58	*VV	11.20
			0.0000	0.0000	0.0000	0.0000	12694927.20		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
8	3.913		0.0000	0.0000	0.0000	0.0000	1464414.14	*VV	4.67
9	4.263	Methylene chloride	0.0000	0.0000	0.0000	0.0000	399129.32	*VB	8.76
			0.0000	0.0000	0.0000	0.0000	1863543.46		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
10	6.814		0.0000	0.0000	0.0000	0.0000	1457970.50	*BB	5.36
11	7.477		0.0000	0.0000	0.0000	0.0000	29224.00	*BB	4.49
12	8.231		0.0000	0.0000	0.0000	0.0000	192111.00	*BB	4.23
13	8.573		0.0000	0.0000	0.0000	0.0000	103516.00	*BB	4.31
			0.0000	0.0000	0.0000	0.0000	1782821.50		

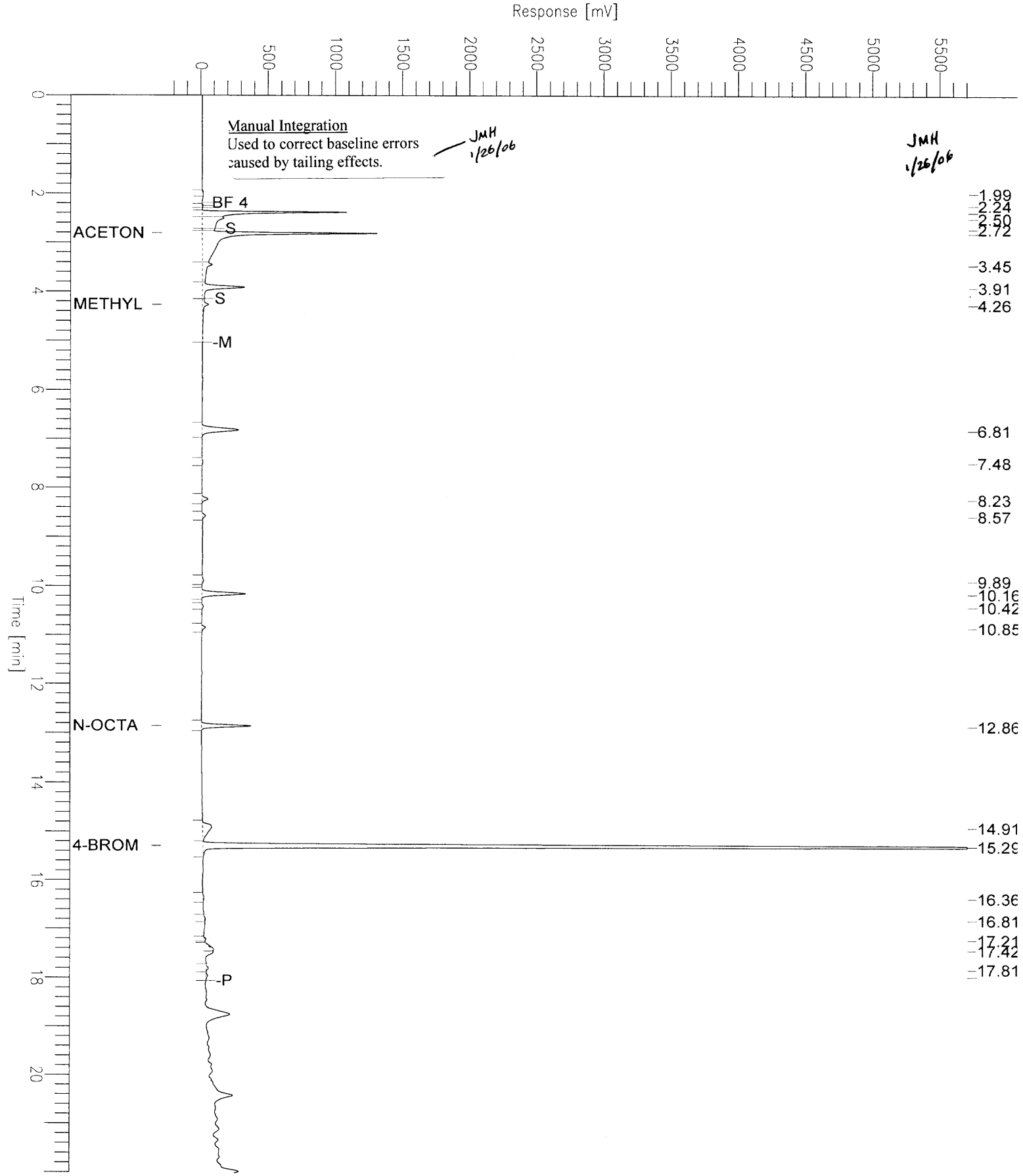
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
14	9.891		0.0000	0.0000	0.0000	0.0000	53487.00	*BB	4.77
15	10.155		0.0000	0.0000	0.0000	0.0000	1337032.00	*BB	4.12
16	10.417		0.0000	0.0000	0.0000	0.0000	35715.00	*BB	3.46
			0.0000	0.0000	0.0000	0.0000	1426234.00		

Chromatogram

Sample Name : ICAL L2 2 ug/L
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0126006.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 6 Page 1 of 1
Date : 1/26/2006 03:50 PM
Time of Injection: 1/26/2006 03:28 PM
Low Point : -290.18 mV High Point : 5709.82 mV
Plot Scale: 6000.0 mV



Software Version: 4.1<2F12>
Sample Name : ICAL L1 1 ug/L Time : 1/26/2006 04:24 PM
Sample Number: 7 Study : ICAL 012606
Operator :

Instrument : COND Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2100574715 Data Acquisition Time: 1/26/2006 04:02 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0126007.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0126007.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\IC012606.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	22.1577	22.1577	88.6306	88.6306	11014982.66		4.63
	5.030	BP 30 TO 60 (C5)	1.4688	1.4688	5.8753	5.8753	1283152.12		5.43
	7.875	BP 60 TO 90 (C6)	1.0944	1.0944	4.3777	4.3777	1130296.00		5.08
	10.075	BP 90 to 98 (C7)	0.9350	0.9350	3.7401	3.7401	818267.00		4.12
18	12.867	n-Octane (SURR)	0.9040	0.9040	3.6160	3.6160	697429.00	*BB	3.49
20	15.303	4-Bromofluorobenzene	100.0000	100.0000	400.0000	400.0000	27765530.23	*VB	3.08
			126.5599	126.5599	506.2397	506.2397	42709657.01		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	1.998		0.0000	0.0000	0.0000	0.0000	31834.00	BB	6.97
2	2.243		0.0000	0.0000	0.0000	0.0000	14745.00	*BB	1.99
3	2.379		0.0000	0.0000	0.0000	0.0000	2670957.49	*BV	2.83
4	2.504		0.0000	0.0000	0.0000	0.0000	1478023.27	*VV	10.31
5	2.717		0.0000	0.0000	0.0000	0.0000	186865.75	*VV	2.31
6	2.810	Acetone	0.0000	0.0000	0.0000	0.0000	5952966.75	*VV	5.29
7	3.454		0.0000	0.0000	0.0000	0.0000	679590.40	*VV	9.28
			0.0000	0.0000	0.0000	0.0000	11014982.66		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
8	3.916		0.0000	0.0000	0.0000	0.0000	929791.14	*VV	4.97
9	4.268	Methylene chloride	0.0000	0.0000	0.0000	0.0000	353360.98	*VB	7.19
			0.0000	0.0000	0.0000	0.0000	1283152.12		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
10	6.819		0.0000	0.0000	0.0000	0.0000	850518.00	*BB	5.43
11	7.483		0.0000	0.0000	0.0000	0.0000	24315.00	*BB	4.40
12	8.238		0.0000	0.0000	0.0000	0.0000	157445.00	*BB	4.22
13	8.581		0.0000	0.0000	0.0000	0.0000	98018.00	*BB	4.27
			0.0000	0.0000	0.0000	0.0000	1130296.00		

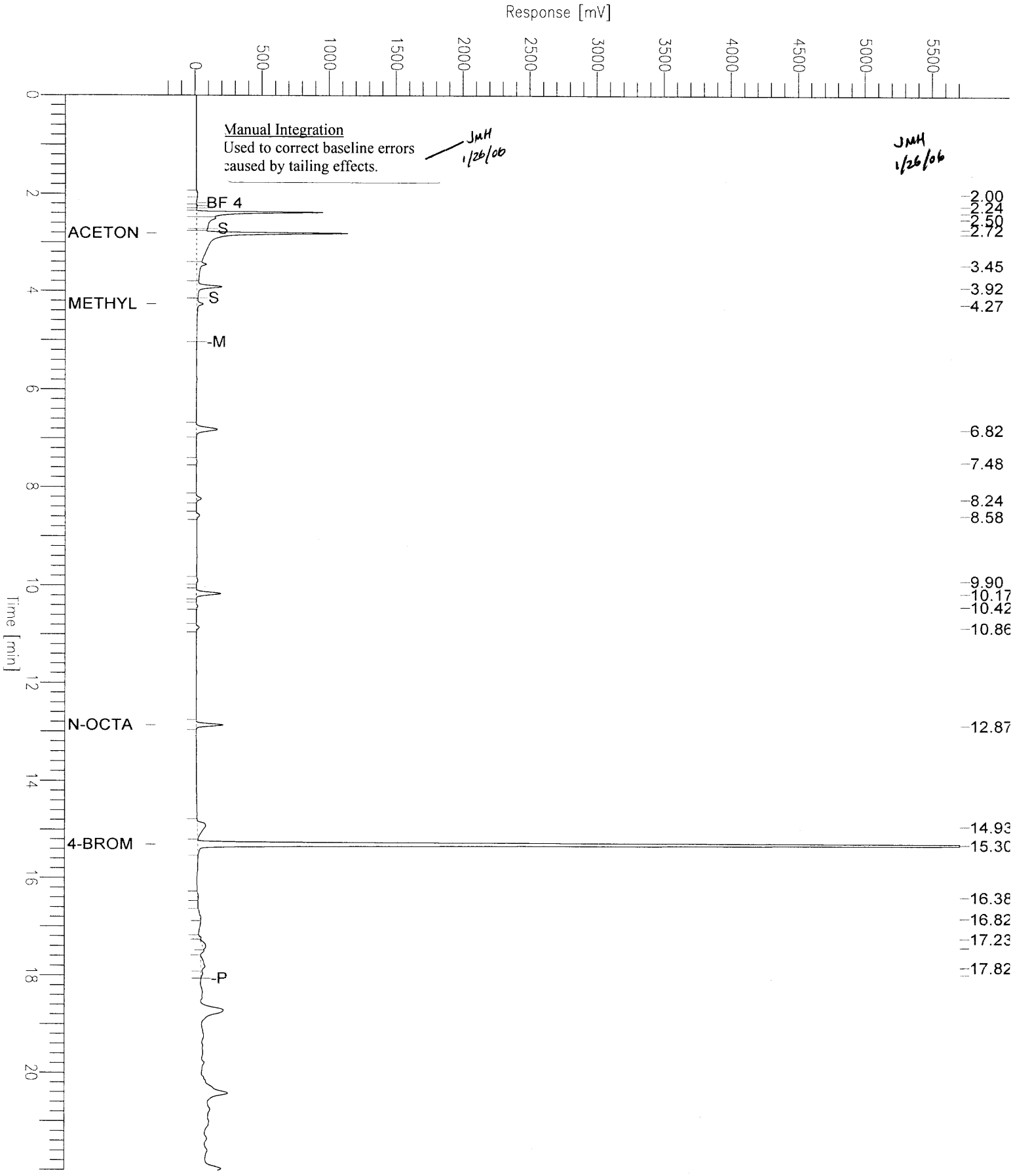
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
14	9.902		0.0000	0.0000	0.0000	0.0000	38353.00	*BB	4.29
15	10.165		0.0000	0.0000	0.0000	0.0000	747941.00	*BB	4.14
16	10.424		0.0000	0.0000	0.0000	0.0000	31973.00	*BB	3.46
			0.0000	0.0000	0.0000	0.0000	818267.00		

Chromatogram

Sample Name : ICAL L1 1 ug/L
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0126007.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 7 Page 1 of 1
Date : 1/26/2006 04:24 PM
Time of Injection: 1/26/2006 04:02 PM
Low Point : -290.14 mV High Point : 5709.86 mV
Plot Scale: 6000.0 mV



Software Version: 4.1<2F12>
Sample Name : MB 01-26-06 Time : 1/26/2006 06:00 PM
Sample Number: 9 Study :
Operator :

Instrument : COND Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2100574715 Data Acquisition Time: 1/26/2006 05:30 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0126009.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0126009.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606.mth
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606.mth
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\IC012606.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	25.7600	25.7600	103.0398	103.0398	13703108.83		5.22
	5.030	BP 30 TO 60 (C5)	0.0838	0.0838	0.3354	0.3354	908679.97		6.53
	7.875	BP 60 TO 90 (C6)	-0.2300	-0.2300	-0.9200	-0.9200	532871.00		4.88
	10.075	BP 90 to 98 (C7)	-0.1696	-0.1696	-0.6782	-0.6782	236781.00		4.17
18	11.791	Toluene	0.0000	0.0000	0.0000	0.0000	16938.00	*BB	3.38
19	12.865	n-Octane (SURR)	25.8169	25.8169	103.2674	103.2674	15751594.00	*BB	3.56
21	15.298	4-Bromofluorobenzene	100.0000	100.0000	400.0000	400.0000	28259403.00	*BB	3.07
			151.2611	151.2611	605.0444	605.0444	59409375.80		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	1.980		0.0000	0.0000	0.0000	0.0000	30599.00	BB	6.64
2	2.249		0.0000	0.0000	0.0000	0.0000	12579.00	*BB	1.97
3	2.386		0.0000	0.0000	0.0000	0.0000	3301505.94	*BV	3.33
4	2.511		0.0000	0.0000	0.0000	0.0000	1733660.04	*VV	9.56
5	2.717		0.0000	0.0000	0.0000	0.0000	275210.99	*VV	2.67
6	2.816	Acetone	0.0000	0.0000	0.0000	0.0000	7446673.83	*VV	5.90
7	3.459		0.0000	0.0000	0.0000	0.0000	902880.03	*VV	11.67
			0.0000	0.0000	0.0000	0.0000	13703108.83		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
8	3.921		0.0000	0.0000	0.0000	0.0000	518752.32	*VV	6.25
9	4.274	Methylene chloride	0.0000	0.0000	0.0000	0.0000	389927.65	*VB	6.95
			0.0000	0.0000	0.0000	0.0000	908679.97		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
10	6.818		0.0000	0.0000	0.0000	0.0000	250556.00	*BB	5.70
11	7.485		0.0000	0.0000	0.0000	0.0000	33292.00	*BB	4.72
12	8.235		0.0000	0.0000	0.0000	0.0000	163031.00	*BB	4.24
13	8.580		0.0000	0.0000	0.0000	0.0000	85992.00	*BB	4.34
			0.0000	0.0000	0.0000	0.0000	532871.00		

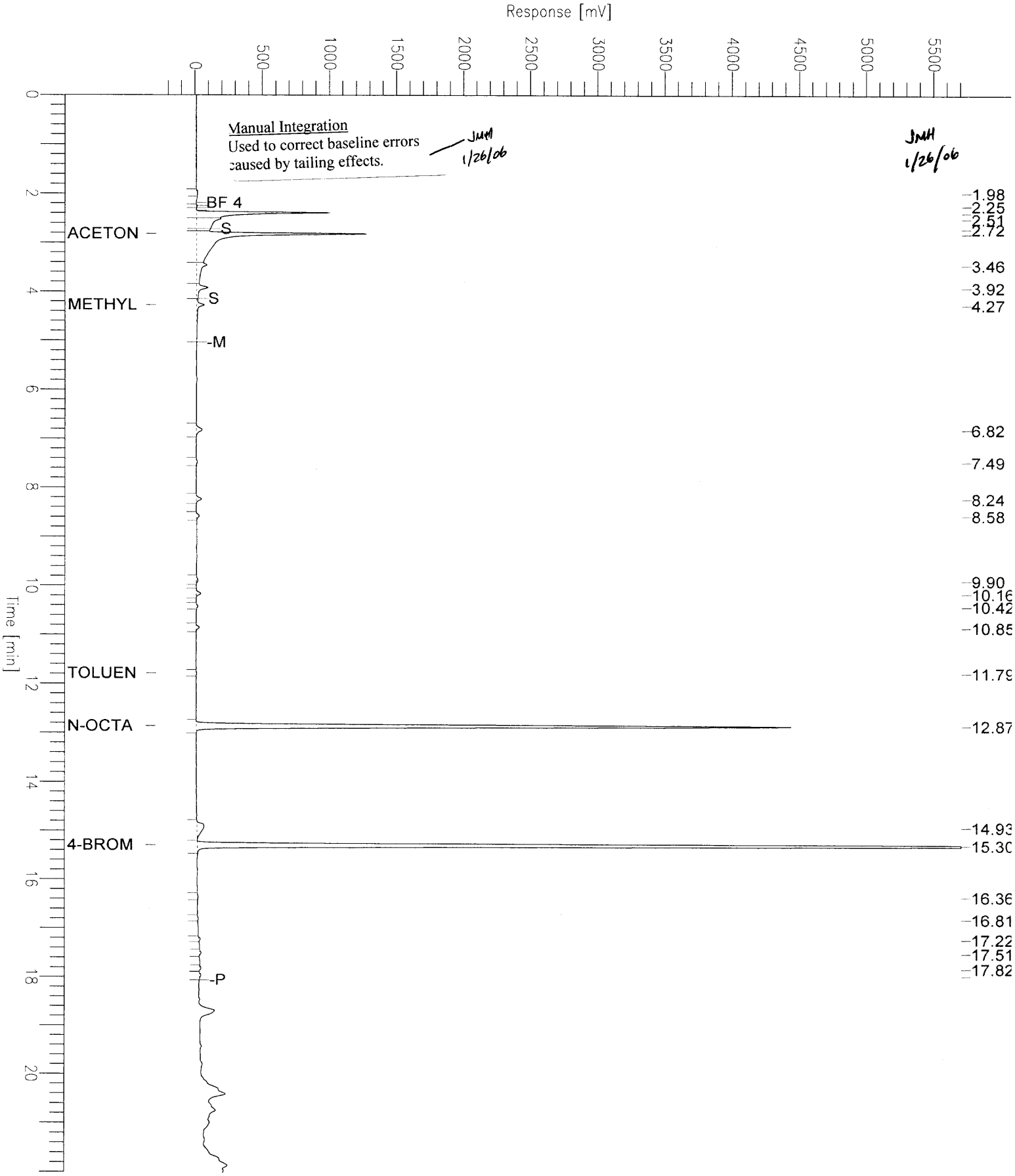
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
14	9.900		0.0000	0.0000	0.0000	0.0000	55949.00	*BB	4.84
15	10.163		0.0000	0.0000	0.0000	0.0000	140815.00	*BB	4.17
16	10.424		0.0000	0.0000	0.0000	0.0000	40017.00	*BB	3.51
			0.0000	0.0000	0.0000	0.0000	236781.00		

Chromatogram

Sample Name : MB 01-26-06
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0126009.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 9 Page 1 of 1
Date : 1/26/2006 06:00 PM
Time of Injection: 1/26/2006 05:30 PM
Low Point : -290.08 mV High Point : 5709.92 mV
Plot Scale: 6000.0 mV



Software Version: 4.1<2F12>
Sample Name : LCS 01-26-06 Time : 1/26/2006 06:23 PM
Sample Number: 10 Study :
Operator :

Instrument : COND ICV Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0 2/2/06

Interface Serial # : 2100574715 Data Acquisition Time: 1/26/2006 06:01 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0126010.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0126010.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\IC012606.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	33.2142	33.2142	132.8567	132.8567	17131729.29		4.91
	5.030	BP 30 TO 60 (C5)	25.6350	25.6350	102.5398	102.5398	13517029.45		4.58
	7.875	BP 60 TO 90 (C6)	26.0212	26.0212	104.0849	104.0849	16466671.00		5.37
	10.075	BP 90 to 98 (C7)	25.3761	25.3761	101.5045	101.5045	15516906.00		4.18
20	11.804	Toluene	0.0000	0.0000	0.0000	0.0000	23582.00	*BB	3.38
21	12.880	n-Octane (SURR)	25.3540	25.3540	101.4159	101.4159	15330693.00	*BB	3.54
23	15.316	4-Bromofluorobenzene	100.0000	100.0000	400.0000	400.0000	27999573.96	*VB	3.08
			235.6004	235.6004	942.4018	942.4018	1.06e+08		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	1.997		0.0000	0.0000	0.0000	0.0000	32918.00	BB	8.17
2	2.244		0.0000	0.0000	0.0000	0.0000	19383.50	*BB	2.02
3	2.381		0.0000	0.0000	0.0000	0.0000	4416980.88	*BV	3.20
4	2.506		0.0000	0.0000	0.0000	0.0000	2245499.23	*VV	9.50
5	2.717		0.0000	0.0000	0.0000	0.0000	322402.91	*VV	2.56
6	2.813	Acetone	0.0000	0.0000	0.0000	0.0000	9198090.79	*VV	5.60
7	3.458		0.0000	0.0000	0.0000	0.0000	896453.98	*VV	10.11
			0.0000	0.0000	0.0000	0.0000	17131729.29		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
8	3.921		0.0000	0.0000	0.0000	0.0000	11799133.72	*VV	4.29
9	4.148		0.0000	0.0000	0.0000	0.0000	332122.68	*VV	4.08
10	4.275	Methylene chloride	0.0000	0.0000	0.0000	0.0000	1385773.06	*VB	11.76
			0.0000	0.0000	0.0000	0.0000	13517029.45		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
11	6.827		0.0000	0.0000	0.0000	0.0000	16014035.00	*BB	5.41
12	7.485		0.0000	0.0000	0.0000	0.0000	44205.00	*BB	4.72
13	7.811		0.0000	0.0000	0.0000	0.0000	70508.00	*BB	5.05
14	8.243		0.0000	0.0000	0.0000	0.0000	243423.00	*BB	4.25
15	8.588		0.0000	0.0000	0.0000	0.0000	94500.00	*BB	4.26
			0.0000	0.0000	0.0000	0.0000	16466671.00		

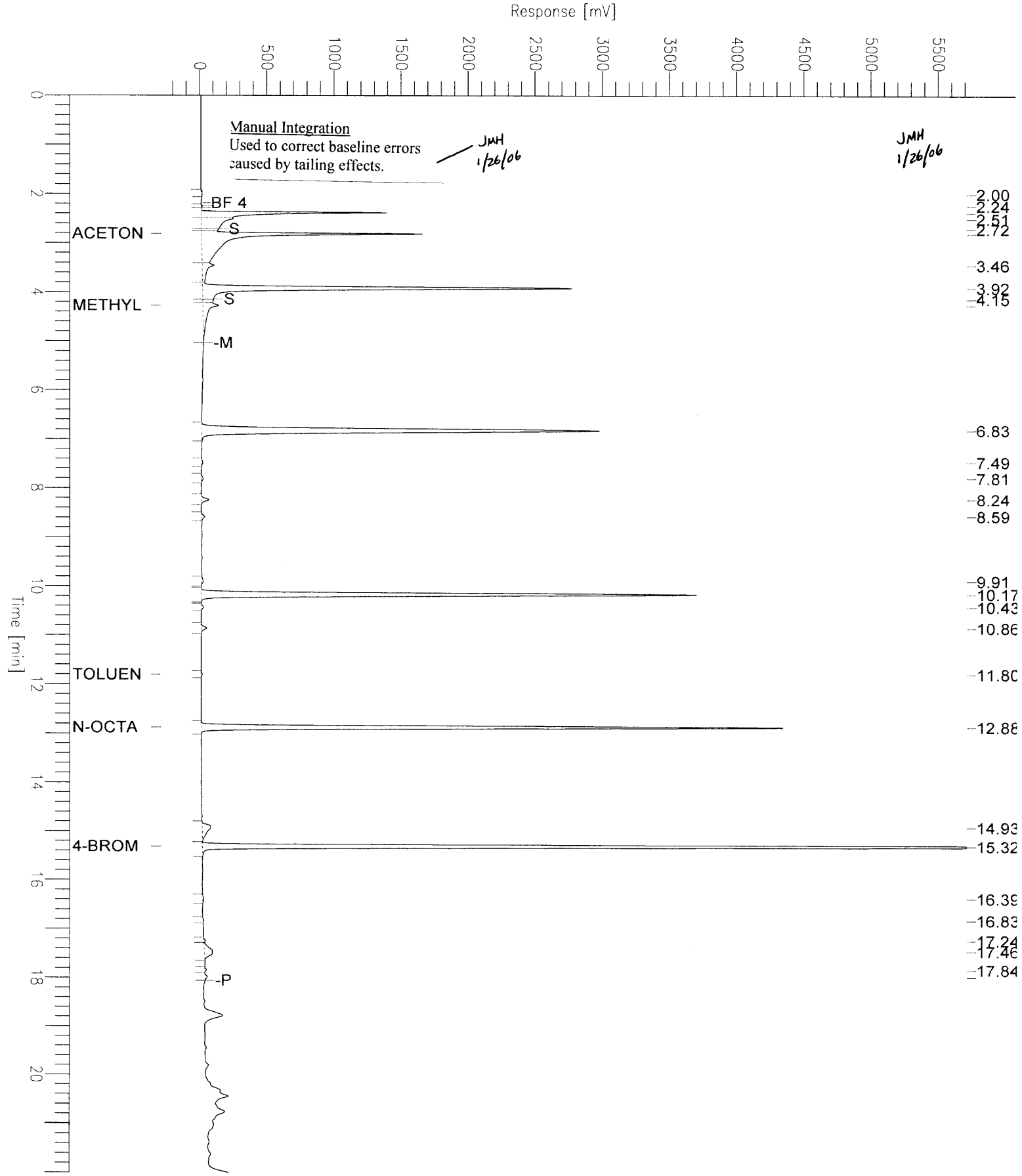
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
16	9.908		0.0000	0.0000	0.0000	0.0000	62170.00	*BB	5.15
17	10.173		0.0000	0.0000	0.0000	0.0000	15401985.00	*BB	4.18
18	10.434		0.0000	0.0000	0.0000	0.0000	52751.00	*BB	3.64
			0.0000	0.0000	0.0000	0.0000	15516906.00		

Chromatogram

Sample Name : LCS 01-26-06
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0126010.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 10 Page 1 of 1
Date : 1/26/2006 06:23 PM
Time of Injection: 1/26/2006 06:01 PM
Low Point : -290.14 mV High Point : 5709.86 mV
Plot Scale: 6000.0 mV



[redacted]

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

INVOICE #: CS268729
PO #: 2130367

CATALOG #: O-2240 CAS #: 109-66-0

DESCRIPTION: n-Pentane

LOT #: 306-95B

PURITY: 99%

EXPIRATION DATE: 07/11 ID 1266504

Chem Service, Inc. guarantees the purity of this chemical ± 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Two or more of the following methods of analysis are used to determine purity: Melting point, refractive index, titration, FTIR, IR, TLC, GC/FID, GC/TCD, GC/ECD, GC/MS, HPLC or DSC.

Our standards are suitable for use with all EPA methods.

Certified By:

John Conrad

John Conrad
CSM/TC

[redacted]

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

INVOICE #: CS268729
PO #: 2130367

CATALOG #: F2274

CAS #: 110-54-3

DESCRIPTION: n-Hexane

LOT #: 344-138B

PURITY: 99.5%

EXPIRATION DATE: 08/09

ID 12160501

Chem Service, Inc. guarantees the purity of this chemical ± 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Two or more of the following methods of analysis are used to determine purity: Melting point, refractive index, titration, FTIR, IR, TLC, GC/FID, GC/TCD, GC/ECD, GC/MS, HPLC or DSC.

Our standards are suitable for use with all EPA methods.

Certified By:

John Conrad

John Conrad
CSM/TC

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

INVOICE #: CS256194
PO #: 2077933

CATALOG #: O-733 CAS #: 142-82-5

DESCRIPTION: n-Heptane

LOT #: 312-115A

PURITY: 99.3%

EXPIRATION DATE: 12/10

Chem Service, Inc. guarantees the purity of this chemical ± 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Two or more of the following methods of analysis are used to determine purity: Melting point, refractive index, titration, FTIR, IR, TLC, GC/FID, GC/TCD, GC/ECD, GC/MS, HPLC or DSC.

Our standards are suitable for use with all EPA methods.

Cert # 1895
Rec'd 11/11/04
Exp: 12/10
KRM

Certified By:

John Conrad

John Conrad
CSM/TC

[redacted]

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

INVOICE #: CS268729
PO #: 2130367

CATALOG #: F833 CAS #: 460-00-4

DESCRIPTION: 4-Bromofluorobenzene

LOT #: 345-43A

PURITY: 99.5%

EXPIRATION DATE: 08/10 ID 12160502

Chem Service, Inc. guarantees the purity of this chemical ± 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Two or more of the following methods of analysis are used to determine purity: Melting point, refractive index, titration, FTIR, IR, TLC, GC/FID, GC/TCD, GC/ECD, GC/MS, HPLC or DSC.

Our standards are suitable for use with all EPA methods.

Certified By:

John Conrad

John Conrad
CSM/TC

[redacted]

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

INVOICE #: CS268729
PO #: 2130367

CATALOG #: O-740 CAS #: 111-65-9

DESCRIPTION: n-Octane

LOT #: 311-96B

PURITY: 99.5%

EXPIRATION DATE: 01/10

ID 12160503

Chem Service, Inc. guarantees the purity of this chemical ± 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Two or more of the following methods of analysis are used to determine purity: Melting point, refractive index, titration, FTIR, IR, TLC, GC/FID, GC/TCD, GC/ECD, GC/MS, HPLC or DSC.

Our standards are suitable for use with all EPA methods.

Certified By:

John Conrad

John Conrad
CSM/TC

Calibration Standard Preparation, Method 0040 Condensates

Neat Materials and Solvent Used to Make Standards

Target Analyte	Neat Standard Vendor	Neat Standard Catalogue Number	Neat Standard Lot Number	Neat Stock Expiration Date	Solvent Used to Make Standards	Solvent Vendor	Solvent Lot Number	Solvent Expiration Date
n-Pentane	ChemServ	O-2240	306-95B	7/1/2011	Tetraglyme	ACROS	A018000001	12/1/2006
n-Hexane	ChemServ	F2274	344-138B	8/1/2009	Tetraglyme	ACROS	A018000001	12/1/2006
n-Heptane	ChemServ	O-733	312-115A	12/1/2010	Tetraglyme	ACROS	A018000001	12/1/2006
n-Octane	ChemServ	O-740	311-96B	1/1/2010	Tetraglyme	ACROS	A018000001	12/1/2006

Use this table to record the origin of the materials used to make standards. The solvent cited here is used to make the individual stocks from neat materials, and subsequent combined standards and dilutions.

JMH 1/26/06

Calibration Standard Stock Preparation for Method 0040 Condensate Analysis

To individual 10 mL volumetric flasks, add approximately 100 mg of each component. Enter the actual weight of each component in Column E of this table. Dilute to the line with tetraglyme. The components used to make this solution are listed in the table above.

Target Analyte	Volume (mL)	Expected Weight (mg)	Suggested Analyte Volume (uL)	Actual Weight (mg)	Actual Conc. (mg/L)	Volume per 10 mL (mL)	Standard ID (AS No.)	Prep Date	Expiration Date	Analyst Initials
n-Pentane	10.0	100	175	107.2	10720	0.933	*AS539*	1/25/06	12/1/06	jmh
n-Hexane	10.0	100	160	103.2	10320	0.969	*AS540*	1/25/06	12/1/06	jmh
n-Heptane	10.0	100	150	101.0	10100	0.990	*AS541*	1/25/06	12/1/06	jmh
n-Octane	10.0	100	150	103.9	10390	0.962	*AS542*	1/25/06	12/1/06	jmh

Calibration Standard Preparation, Method 0040 Condensates

Preparation of 1000 mg/L Stock Standard

Prepare a combined standard in which all components have equal concentrations. For each target analyte, record actual stock volume added to 10 mL tetraglyme.

Target Analyte	Stock ID (AS No.)	Actual Stock Volume (mL)	Stock Conc. (mg/L)	Total Volume (mL)	Final Analyte Conc. (mg/L)	Standard ID (AS No.)	Prep Date	Expiration Date	Analyst Initials
n-Pentane	*AS539*	0.933	10720	10.00	1000	*AS543*	1/25/06	12/1/06	jmh
n-Hexane	*AS540*	0.969	10320	10.00	1000				
n-Heptane	*AS541*	0.990	10100	10.00	1000				
n-Octane	*AS542*	0.962	10390	10.00	1000				

Preparation of 50 mg/L Stock Standard

Prepare a new standard by dilution of the previous standard. Add 2.5 mL 1000 mg/L standard to 50 mL total volume in tetraglyme. Record actual stock volume added.

Target Analyte	Stock ID (AS No.)	Actual Stock Volume (mL)	Stock Conc. (mg/L)	Total Volume (mL)	Target Analyte Conc. (mg/L)	Standard ID (AS No.)	Prep Date	Expiration Date	Analyst Initials
n-Pentane	*AS543*	2.50	1000	50.0	50.0	*AS544*	1/25/2006	12/1/2006	jmh
n-Hexane		2.50	1000	50.0	50.0				
n-Heptane		2.50	1000	50.0	50.0				
n-Octane		2.50	1000	50.0	50.0				

JMH 1/26/06

Read and Understood by

Jon M Humphrey 1/26/06

Signed Date Signed Date

Calibration Standard Preparation, Method 0040 Condensates

Preparation of 5 mg/L Stock Standard

Prepare a new standard by dilution of the previous standard. Add 5.0 mL 1000 mg/L standard to 50 mL total volume in tetraglyme. Record actual stock volume added.

Target Analyte	Stock ID (AS No.)	Actual Stock Volume (mL)	Stock Conc. (mg/L)	Total Volume (mL)	Target Analyte Conc. (mg/L)	Standard ID (AS No.)	Prep Date	Expiration Date	Analyst Initials
n-Pentane	*AS544*	5.00	50	50.0	5.00	*AS545*	1/25/2006	12/1/2006	jmh
n-Hexane		5.00	50	50.0	5.00				
n-Heptane		5.00	50	50.0	5.00				
n-Octane		5.00	50	50.0	5.00				

JMH 1/26/06

Laboratory Control Standard Preparation, Method 0040 Condensates

Neat Materials and Solvent Used to Make Standards

Target Analyte	Neat Standard Vendor	Neat Standard Catalogue Number	Neat Standard Lot Number	Neat Stock Expiration Date	Solvent Used to Make Standards	Solvent Vendor	Solvent Lot Number	Solvent Expiration Date
n-Pentane	ChemServ	O-2240	306-95B	7/1/2011	Tetraglyme	ACROS	A018000001	12/1/2006
n-Hexane	ChemServ	F2274	344-138B	8/1/2009	Tetraglyme	ACROS	A018000001	12/1/2006
n-Heptane	ChemServ	O-733	312-115A	12/1/2010	Tetraglyme	ACROS	A018000001	12/1/2006

Use this table to record the origin of the materials used to make standards. The solvent cited here is used to make the individual stocks from neat materials, and subsequent combined standards and dilutions.

JMH 1/26/06

Laboratory Control Standard Stock Preparation for Method 0040 Condensate Analysis

To individual 10 mL volumetric flasks, add approximately 100 mg of each component. Enter the actual weight of each component in Column E of this table. Dilute to the line with tetraglyme. The components used to make this solution are listed in the table above.

Target Analyte	Volume (mL)	Expected Weight (mg)	Suggested Analyte Volume (uL)	Actual Weight (mg)	Actual Conc. (mg/L)	Volume per 10 mL (mL)	Standard ID (AS No.)	Prep Date	Analyst Initials
n-Pentane	10.0	100	175	100.5	10050	0.995	*AS546*	1/25/2006	jmh
n-Hexane	10.0	100	160	100.1	10010	0.999	*AS547*	1/25/2006	jmh
n-Heptane	10.0	100	150	100.2	10020	0.998	*AS548*	1/25/2006	jmh

Laboratory Control Standard Preparation, Method 0040 Condensates

Preparation of 1000 mg/L Stock Standard

Prepare a combined standard in which all components have equal concentrations. For each target analyte, record actual stock volume added to 10 mL tetraglyme.

Target Analyte	Stock ID (AS No.)	Actual Stock Volume (mL)	Stock Conc. (mg/L)	Total Volume (mL)	Target Analyte Conc. (mg/L)	Standard ID (AS No.)	Prep Date	Expiration Date	Analyst Initials
n-Pentane	*AS546*	0.995	10050	10.00	1000	*AS549*	1/25/2006	12/1/2006	jmh
n-Hexane	*AS547*	0.999	10010	10.00	1000				
n-Heptane	*AS548*	0.998	10020	10.00	1000				

JMH 1/26/06

Preparation of 50 mg/L Stock Standard

Prepare a new standard by dilution of the previous standard. Add 2.5 mL 1000 mg/L standard to 50 mL total volume in tetraglyme. Record actual stock volume added.

Target Analyte	Stock ID (AS No.)	Actual Stock Volume (mL)	Stock Conc. (mg/L)	Total Volume (mL)	Target Analyte Conc. (mg/L)	Standard ID (AS No.)	Prep Date	Expiration Date	Analyst Initials
n-Pentane	*AS549*	2.50	1000	50.0	50.0	*AS550*	1/25/2006	12/1/2006	jmh
n-Hexane		2.50	1000	50.0	50.0				
n-Heptane		2.50	1000	50.0	50.0				

Jon M Humphrey — 1/26/06

Signed — Date — Signed — Date

Surrogate Standard Preparation, Method 0040 Condensates

Neat Materials and Solvent Used to Make Standards

Use this table to record the origin of the materials used to make standards. The solvent cited here is used to make the stock from neat material, and subsequent standards and dilutions.

Target Analyte	Neat Standard Vendor	Neat Standard Catalogue Number	Neat Standard Lot Number	Neat Stock Expiration Date	Solvent Used to Make Standards	Solvent Vendor	Solvent Lot Number	Solvent Expiration Date
n-Octane	ChemServ	O-740	311-96B	1/1/2010	Tetraglyme	ACROS	A01800000	12/1/2006

Surrogate Standard Stock Preparation for Method 0040 Condensate Analysis

To a 10 mL volumetric flask, add approximately 100 mg of n-Octane. Enter the actual weight of n-Octane in Column E of this table. Dilute to the line with tetraglyme. The components used to make this solution are listed in the table above.

Target Analyte	Volume (mL)	Expected Weight (mg)	Suggested Analyte Volume (uL)	Actual Weight (mg)	Actual Conc. (mg/L)	Volume per 10 mL (mL)	Standard ID (AS No.)	Prep Date	Expiration Date	Analyst Initials
n-Octane	10.0	100	175	103.0	10300	0.971	*AS551*	1/25/2006	12/1/2006	jmh

JMH 1/26/06

Preparation of 1000 mg/L Stock Standard

Prepare a new standard by dilution. Record actual stock volume of n-Octane stock solution added to 10 mL tetraglyme.

Target Analyte	Stock ID (AS No.)	Actual Stock Volume (mL)	Stock Conc. (mg/L)	Total Volume (mL)	Target Analyte Conc. (mg/L)	Standard ID (AS No.)	Prep Date	Expiration Date	Analyst Initials
n-Octane	*AS551*	0.971	10300	10.00	1000	*AS552*	1/25/2006	12/1/2006	jmh

Preparation of 50 mg/L Stock Standard

Prepare a new standard by dilution of the previous standard. Add 2.5 mL 1000 mg/L standard to 50 mL total volume in tetraglyme. Record actual stock volume added.

Target Analyte	Stock ID (AS No.)	Actual Stock Volume (mL)	Stock Conc. (mg/L)	Total Volume (mL)	Target Analyte Conc. (mg/L)	Standard ID (AS No.)	Prep Date	Expiration Date	Analyst Initials
n-Octane	*AS552*	2.50	1000	50.0	50.0	*AS553*	1/25/2006	12/1/2006	jmh

JMH 1/26/06

Continued on Page

Read and Understood By

Jon M Humphrey — 1/26/06

Signed — Date — Signed — Date

Internal Standard Preparation, Method 0040 Condensates

Neat Materials and Solvent Used to Make Standards

Use this table to record the origin of the materials used to make standards. The solvent cited here is used to make the stock from neat material, and subsequent standards and dilutions.

Target Analyte	Neat Standard Vendor	Neat Standard Catalogue Number	Neat Standard Lot Number	Neat Stock Expiration Date	Solvent Used to Make Standards	Solvent Vendor	Solvent Lot Number	Solvent Expiration Date
4-BFB	ChemServ	F833	345-43A	8/1/2010	Tetraglyme	ACROS	A01800000	12/1/2006

Internal Standard Stock Preparation for Method 0040 Condensate Analysis

To a 10 mL volumetric flask, add approximately 100 mg of n-octane. Enter the actual weight of n-octane in Column E of this table. Dilute to the line with tetraglyme. The components used to make this solution are listed in the table above.

Target Analyte	Volume (mL)	Expected Weight (mg)	Suggested Analyte Volume (uL)	Actual Weight (mg)	Actual Conc. (mg/L)	Volume per 10 mL (mL)	Standard ID (AS No.)	Prep Date	Expiration Date	Analyst Initials
4-BFB	10.0	100	65	102.6	10260	0.975	*AS554*	1/25/2006	12/1/2006	jmh

JMH 1/26/06

Preparation of 1000 mg/L Stock Standard

Prepare a newstandard by dilution. Record actual stock volume of 4-BFB stock solution added to 10 mL tetraglyme.

Target Analyte	Stock ID (AS No.)	Actual Stock Volume (mL)	Stock Conc. (mg/L)	Total Volume (mL)	Target Analyte Conc. (mg/L)	Standard ID (AS No.)	Prep Date	Expiration Date	Analyst Initials
4-BFB	*AS554*	0.975	10260	10.00	1000	*AS555*	1/25/2006	12/1/2006	jmh

Preparation of 100 mg/L Stock Standard

Prepare a new standard by dilution of the previous standard. Add 5.0 mL 1000 mg/L standard to 50 mL total volume in tetraglyme. Record actual stock volume added.

Target Analyte	Stock ID (AS No.)	Actual Stock Volume (mL)	Stock Conc. (mg/L)	Total Volume (mL)	Target Analyte Conc. (mg/L)	Standard ID (AS No.)	Prep Date	Expiration Date	Analyst Initials
4-BFB	*AS555*	5.00	1000	50.0	100	*AS556*	1/25/2006	12/1/2006	jmh

JMH 1/26/06

Continued on Page

Quality Assurance Data

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: H6C300257 **Work Order #...:** H2LW61AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-081

Prep Date.....: 04/05/06
Analysis Date..: 04/05/06 **Prep Batch #...:** 6095081
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C4 (0 to 30 deg C)	ND	1.0	ug/L	EPA-18 0040 COND
C5 (30 to 60 deg C)	**0.31 J**	**1.0**	**ug/L**	**EPA-18 0040 COND**
C6 (60 to 90 deg C)	ND	1.0	ug/L	EPA-18 0040 COND
C7 (90 to 98 deg C)	ND	1.0	ug/L	EPA-18 0040 COND

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	97	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: H6D030177 **Work Order #...:** H2LW61AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-081

Prep Date.....: 04/05/06
Analysis Date..: 04/05/06 **Prep Batch #...:** 6095081
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C4 (0 to 30 deg C)	ND	1.0	ug/L	EPA-18 0040 COND
C5 (30 to 60 deg C)	**0.31 J**	**1.0**	**ug/L**	**EPA-18 0040 COND**
C6 (60 to 90 deg C)	ND	1.0	ug/L	EPA-18 0040 COND
C7 (90 to 98 deg C)	ND	1.0	ug/L	EPA-18 0040 COND

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	97	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

Software Version: 4.1<2F12>
Sample Name : H2LW61AA Time : 4/5/2006 11:35 AM
Sample Number: 4 Study : H6D050000-081
Operator :

Instrument : COND Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2100574715 Data Acquisition Time: 4/5/2006 11:13 AM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0405004.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0405004.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\6D030177.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name		Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	ND	~~30.9902~~	30.9902	123.9608	123.9608	16261131.91		4.83
	5.030	BP 30 TO 60 (C5)		0.3118	0.3118	1.2471	1.2471	1027430.72		5.91
	7.875	BP 60 TO 90 (C6)	ND	-0.1424	-0.1424	-0.5697	-0.5697	587794.00		4.61
	10.075	BP 90 to 98 (C7)	ND	-0.1371	-0.1371	-0.5483	-0.5483	256946.50		4.17
22	11.807	Toluene		0.0000	0.0000	0.0000	0.0000	32519.00	*BB	3.37
24	12.880	n-Octane (SURR)		24.1311	24.1311	96.5245 ✓	96.5245	14768487.00	*BB	3.49
28	15.312	4-Bromofluorobenzene		100.0000	100.0000	400.0000	400.0000	28320026.50	*BB	3.06
Solvent Peak Conc	31.6471			155.1536	155.1536	620.6144	620.6144	61254335.63		

30.9902 - 31.6471 = ND reported JMH 4-5-06

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	2.015		0.0000	0.0000	0.0000	0.0000	27843.00	BB	6.98
2	2.263		0.0000	0.0000	0.0000	0.0000	15234.00	*BB	1.55
3	2.340		0.0000	0.0000	0.0000	0.0000	10638.79	*BV	-3.44
4	2.400		0.0000	0.0000	0.0000	0.0000	3575999.29	*VV	2.86
5	2.523		0.0000	0.0000	0.0000	0.0000	1886500.32	*VV	10.09
6	2.717		0.0000	0.0000	0.0000	0.0000	449101.80	*VV	3.62
7	2.833		0.0000	0.0000	0.0000	0.0000	9212755.11	*VV	5.40
8	3.476		0.0000	0.0000	0.0000	0.0000	1083059.60	*VV	12.17
			0.0000	0.0000	0.0000	0.0000	16261131.91		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
9	3.938		0.0000	0.0000	0.0000	0.0000	534504.09	*VV	6.06
10	4.147		0.0000	0.0000	0.0000	0.0000	53624.02	*VV	4.18
11	4.288	Methylene chloride	0.0000	0.0000	0.0000	0.0000	343611.11	*VB	6.34
12	5.479		0.0000	0.0000	0.0000	0.0000	51787.50	*BB	5.59
13	5.811		0.0000	0.0000	0.0000	0.0000	43904.00	*BB	4.73
			0.0000	0.0000	0.0000	0.0000	1027430.72		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
14	6.836		0.0000	0.0000	0.0000	0.0000	237162.50	*BB	5.23
15	7.501		0.0000	0.0000	0.0000	0.0000	37364.00	*BB	4.70
16	8.252		0.0000	0.0000	0.0000	0.0000	196488.00	*BB	4.21
17	8.596		0.0000	0.0000	0.0000	0.0000	116779.50	*BB	4.24
			0.0000	0.0000	0.0000	0.0000	587794.00		

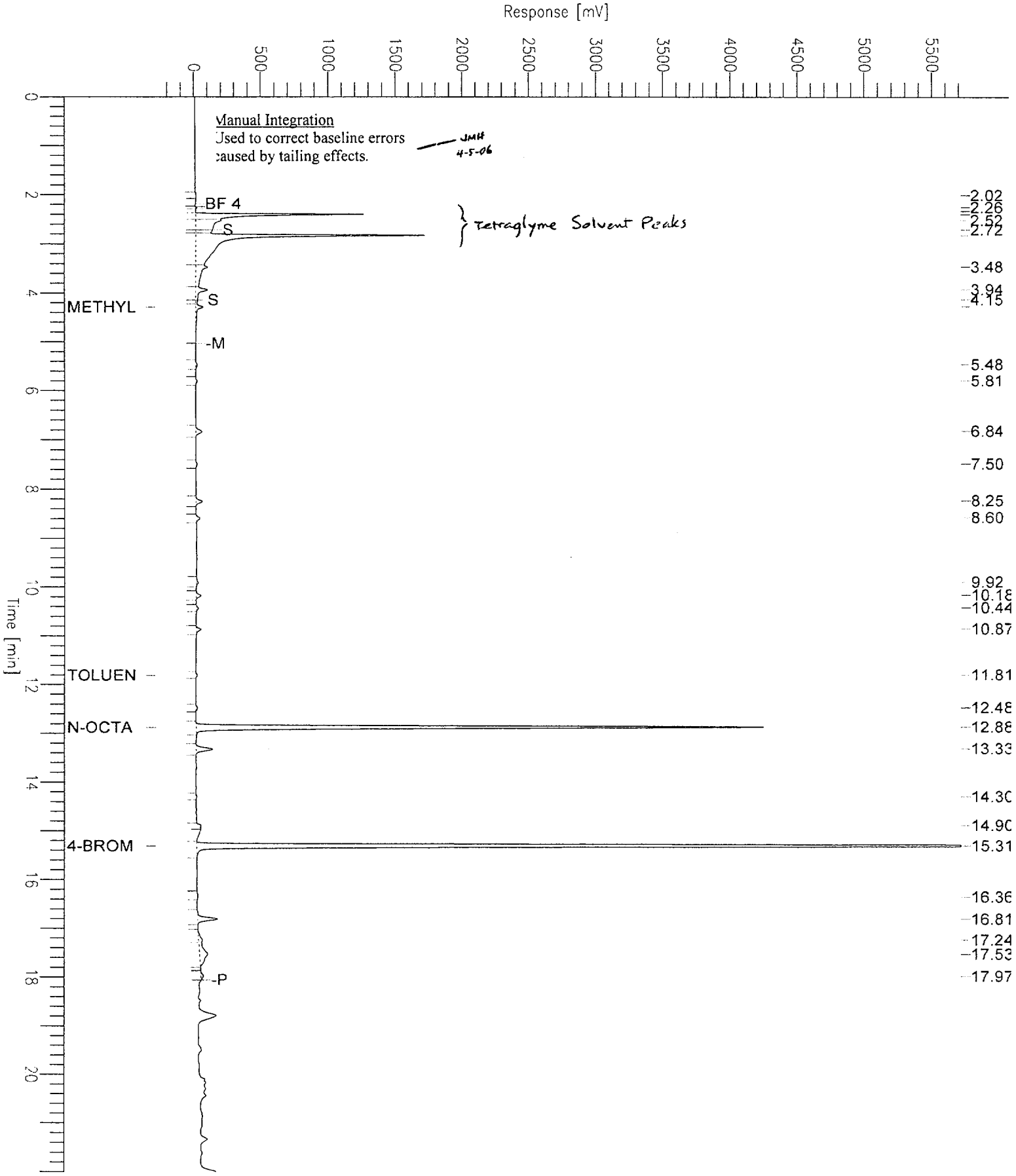
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
18	9.917		0.0000	0.0000	0.0000	0.0000	64243.00	*BB	5.24
19	10.181		0.0000	0.0000	0.0000	0.0000	142563.00	*BB	4.10
20	10.439		0.0000	0.0000	0.0000	0.0000	50140.50	*BB	3.44
			0.0000	0.0000	0.0000	0.0000	256946.50		

Chromatogram

Sample Name : H2LW61AA
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0405004.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 4 Page 1 of 1
Date : 4/5/2006 11:35 AM
Time of Injection: 4/5/2006 11:13 AM
Low Point : -290.04 mV High Point : 5709.96 mV
Plot Scale: 6000.0 mV



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: H6C300257 **Work Order #...:** H2LW61AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-081 H2LW61AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
C5 (30 to 60 deg C)	**106**	**(50 - 150)**			**EPA-18 0040 COND**
	100	**(50 - 150)**	**6.2**	**(0-35)**	**EPA-18 0040 COND**
C6 (60 to 90 deg C)	**105**	**(50 - 150)**			**EPA-18 0040 COND**
	104	**(50 - 150)**	**0.88**	**(0-35)**	**EPA-18 0040 COND**
C7 (90 to 98 deg C)	**102**	**(50 - 150)**			**EPA-18 0040 COND**
	101	**(50 - 150)**	**1.1**	**(0-35)**	**EPA-18 0040 COND**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	98	(50 - 150)
	98	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: H6C300257 **Work Order #...:** H2LW61AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-081 H2LW61AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
C5 (30 to 60 deg C)	**25.0**	**26.5**	**ug/L**	**106**		**EPA-18 0040 COND**
	25.0	**24.9**	**ug/L**	**100**	**6.2**	**EPA-18 0040 COND**
C6 (60 to 90 deg C)	**25.0**	**26.2**	**ug/L**	**105**		**EPA-18 0040 COND**
	25.0	**26.0**	**ug/L**	**104**	**0.88**	**EPA-18 0040 COND**
C7 (90 to 98 deg C)	**25.0**	**25.5**	**ug/L**	**102**		**EPA-18 0040 COND**
	25.0	**25.2**	**ug/L**	**101**	**1.1**	**EPA-18 0040 COND**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	98	(50 - 150)
	98	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: H6D030177 **Work Order #...:** H2LW61AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-081 H2LW61AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
C5 (30 to 60 deg C)	**106**	**(50 - 150)**			**EPA-18 0040 COND**
	100	**(50 - 150)**	**6.2**	**(0-35)**	**EPA-18 0040 COND**
C6 (60 to 90 deg C)	**105**	**(50 - 150)**			**EPA-18 0040 COND**
	104	**(50 - 150)**	**0.88**	**(0-35)**	**EPA-18 0040 COND**
C7 (90 to 98 deg C)	**102**	**(50 - 150)**			**EPA-18 0040 COND**
	101	**(50 - 150)**	**1.1**	**(0-35)**	**EPA-18 0040 COND**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	98	(50 - 150)
	98	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: H6D030177 **Work Order #...:** H2LW61AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-081 H2LW61AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
C5 (30 to 60 deg C)	**25.0**	**26.5**	**ug/L**	**106**		**EPA-18 0040 COND**
	25.0	**24.9**	**ug/L**	**100**	**6.2**	**EPA-18 0040 COND**
C6 (60 to 90 deg C)	**25.0**	**26.2**	**ug/L**	**105**		**EPA-18 0040 COND**
	25.0	**26.0**	**ug/L**	**104**	**0.88**	**EPA-18 0040 COND**
C7 (90 to 98 deg C)	**25.0**	**25.5**	**ug/L**	**102**		**EPA-18 0040 COND**
	25.0	**25.2**	**ug/L**	**101**	**1.1**	**EPA-18 0040 COND**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	98	(50 - 150)
	98	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Software Version: 4.1<2F12>
Sample Name : H2LW61AC Time : 4/5/2006 12:16 PM
Sample Number: 5 Study : H6D050000-081
Operator :

Instrument : COND Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2100574715 Data Acquisition Time: 4/5/2006 11:54 AM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0405005.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0405005.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\6D030177.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	40.0398	40.0398	160.1593	160.1593	20484998.90		4.70
	5.030	BP 30 TO 60 (C5)	26.5222	26.5222	106.0889 ✓	106.0889	14044678.88		4.32
	7.875	BP 60 TO 90 (C6)	26.2443	26.2443	104.9773 ✓	104.9773	16722944.50		5.29
	10.075	BP 90 to 98 (C7)	25.4826	25.4826	101.9302 ✓	101.9302	15693958.50		4.14
23	11.787	Toluene	0.0000	0.0000	0.0000	0.0000	37676.00	*BB	3.53
25	12.866	n-Octane (SURR)	24.4234	24.4234	97.6937 ✓	97.6937	14883233.00	*BB	3.52
29	15.302	4-Bromofluorobenzene	100.0000	100.0000	400.0000	400.0000	28203335.83	*VB	3.04
			242.7123	242.7123	970.8493	970.8493	1.10e+08		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	2.012		0.0000	0.0000	0.0000	0.0000	28747.00	BB	7.55
2	2.250		0.0000	0.0000	0.0000	0.0000	28534.00	*BB	1.73
3	2.330		0.0000	0.0000	0.0000	0.0000	6180.09	*BV	-2.66
4	2.387		0.0000	0.0000	0.0000	0.0000	4446798.07	*VV	2.68
5	2.500		0.0000	0.0000	0.0000	0.0000	2551610.23	*VV	11.01
6	2.717		0.0000	0.0000	0.0000	0.0000	441940.91	*VV	2.79
7	2.817	Acetone	0.0000	0.0000	0.0000	0.0000	11637399.62	*VV	5.35
8	3.458		0.0000	0.0000	0.0000	0.0000	1343788.97	*VV	11.24
			0.0000	0.0000	0.0000	0.0000	20484998.90		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
9	3.919		0.0000	0.0000	0.0000	0.0000	12337460.62	*VV	4.05
10	4.144		0.0000	0.0000	0.0000	0.0000	305389.30	*VV	4.33
11	4.265	Methylene chloride	0.0000	0.0000	0.0000	0.0000	1253872.97	*VB	11.47
12	5.447		0.0000	0.0000	0.0000	0.0000	113942.00	*BB	6.29
13	5.777		0.0000	0.0000	0.0000	0.0000	34014.00	*BB	4.69
			0.0000	0.0000	0.0000	0.0000	14044678.88		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
14	6.808		0.0000	0.0000	0.0000	0.0000	16199157.00	*BB	5.32
15	7.466		0.0000	0.0000	0.0000	0.0000	48305.00	*BB	4.69
16	7.793		0.0000	0.0000	0.0000	0.0000	72999.00	*BB	4.95
17	8.229		0.0000	0.0000	0.0000	0.0000	294156.50	*BB	4.19
18	8.571		0.0000	0.0000	0.0000	0.0000	108327.00	*BB	4.18
			0.0000	0.0000	0.0000	0.0000	16722944.50		

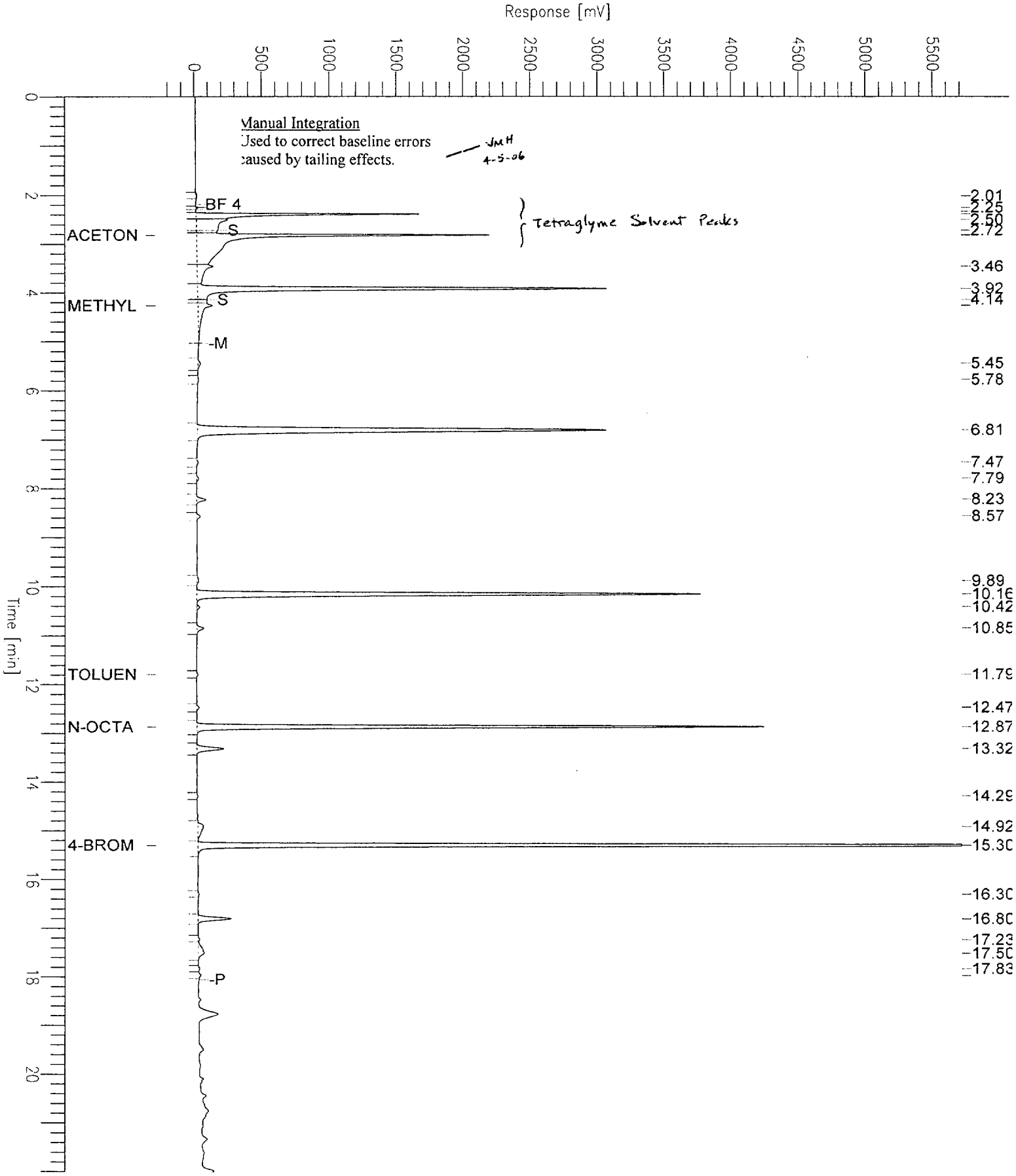
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
19	9.891		0.0000	0.0000	0.0000	0.0000	68515.50	*BB	5.42
20	10.159		0.0000	0.0000	0.0000	0.0000	15525877.69	*BE	4.13
21	10.417		0.0000	0.0000	0.0000	0.0000	99565.31	*EB	4.78
			0.0000	0.0000	0.0000	0.0000	15693958.50		

Chromatogram

Sample Name : H2LW61AC
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0405005.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 5 Page 1 of 1
Date : 4/5/2006 12:16 PM
Time of Injection: 4/5/2006 11:54 AM
Low Point : -290.11 mV High Point : 5709.89 mV
Plot Scale: 6000.0 mV



Software Version: 4.1<2F12>
Sample Name : H2LW61AD
Sample Number: 6
Operator :

Time : 4/5/2006 12:47 PM
Study : H6D050000-081

Instrument : COND
AutoSampler :
Rack/Vial : 0/0

Channel : A A/D mV Range : 10000

Interface Serial # : 2100574715 Data Acquisition Time: 4/5/2006 12:25 PM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0405006.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0405006.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\6D030177.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	40.7979	40.7979	163.1915	163.1915	20702064.49		4.69
	5.030	BP 30 TO 60 (C5)	24.9347	24.9347	99.7388 ✓	99.7388	13187762.32		4.51
	7.875	BP 60 TO 90 (C6)	26.0123	26.0123	104.0492 ✓	104.0492	16470819.00		5.26
	10.075	BP 90 to 98 (C7)	25.2083	25.2083	100.8333 ✓	100.8333	15425469.00		4.15
23	11.807	Toluene	0.0000	0.0000	0.0000	0.0000	36514.00	*BB	3.43
25	12.882	n-Octane (SURR)	24.3893	24.3893	97.5573 ✓	97.5573	14763932.00	*BB	3.51
29	15.317	4-Bromofluorobenzene	100.0000	100.0000	400.0000	400.0000	28015835.00	*BB	3.04
			241.3425	241.3425	965.3700	965.3700	1.09e+08		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	2.004		0.0000	0.0000	0.0000	0.0000	27424.00	BB	6.93
2	2.255		0.0000	0.0000	0.0000	0.0000	23549.00	*BB	1.68
3	2.330		0.0000	0.0000	0.0000	0.0000	8010.65	*BV	-3.00
4	2.393		0.0000	0.0000	0.0000	0.0000	4738329.52	*VV	2.80
5	2.504		0.0000	0.0000	0.0000	0.0000	2637331.00	*VV	10.19
6	2.717		0.0000	0.0000	0.0000	0.0000	519725.54	*VV	3.34
7	2.827	Acetone	0.0000	0.0000	0.0000	0.0000	11621861.70	*VV	5.32
8	3.473		0.0000	0.0000	0.0000	0.0000	1125833.07	*VV	10.45
			0.0000	0.0000	0.0000	0.0000	20702064.49		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
9	3.937		0.0000	0.0000	0.0000	0.0000	11403850.22	*VV	4.20
10	4.148		0.0000	0.0000	0.0000	0.0000	386366.37	*VV	4.63
11	4.286	Methylene chloride	0.0000	0.0000	0.0000	0.0000	1310634.73	*VB	12.29
12	5.479		0.0000	0.0000	0.0000	0.0000	56051.00	*BB	5.95
13	5.814		0.0000	0.0000	0.0000	0.0000	30860.00	*BB	4.68
			0.0000	0.0000	0.0000	0.0000	13187762.32		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
14	6.841		0.0000	0.0000	0.0000	0.0000	15946781.50	*BB	5.30
15	7.497		0.0000	0.0000	0.0000	0.0000	43546.00	*BB	4.85
16	7.824		0.0000	0.0000	0.0000	0.0000	71281.00	*BB	4.92
17	8.253		0.0000	0.0000	0.0000	0.0000	293679.00	*BB	4.16
18	8.595		0.0000	0.0000	0.0000	0.0000	115531.50	*BB	4.17
			0.0000	0.0000	0.0000	0.0000	16470819.00		

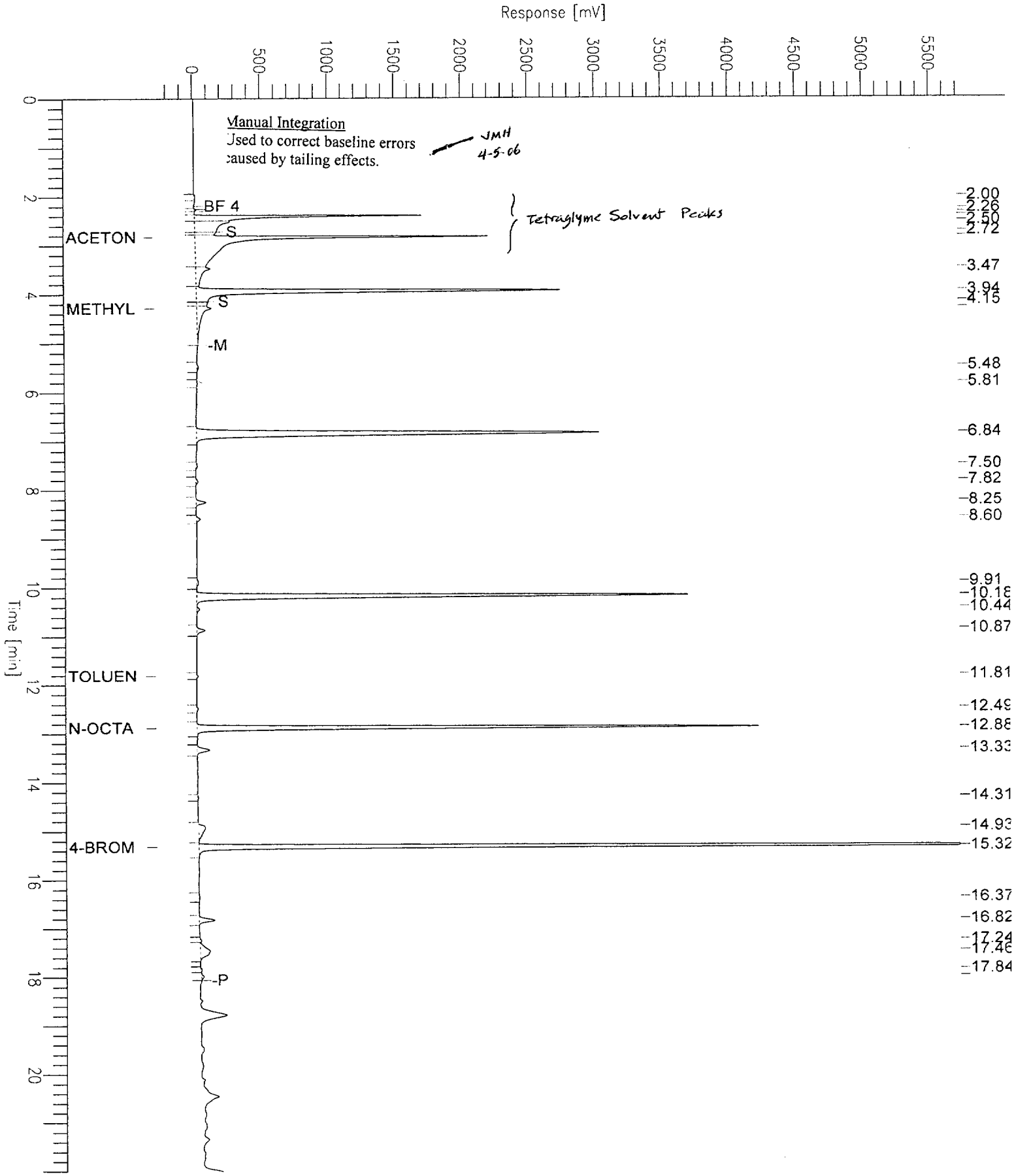
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
19	9.910		0.0000	0.0000	0.0000	0.0000	66556.00	*BB	5.36
20	10.179		0.0000	0.0000	0.0000	0.0000	15256638.00	*BE	4.15
21	10.436		0.0000	0.0000	0.0000	0.0000	102275.00	*EB	4.78
			0.0000	0.0000	0.0000	0.0000	15425469.00		

Chromatogram

Sample Name : H2LW61AD
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0405006.raw
Method : CO012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 6
Date : 4/5/2006 12:47 PM
Time of Injection: 4/5/2006 12:25 PM
Low Point : -290.04 mV High Point : 5709.96 mV
Plot Scale: 6000.0 mV



Miscellaneous Data

STL Knoxville GC Method 0040 Condensate Data Review / Narrative Checklist
SOP: KNOX-GC-0016, Rev. 1, Page 1 of 1

Batch Number:	6095081	6095081	
Lot Number(s):	H6C300257	H6D030177	
Sequence No.:	6D030177	6D030177	
Scanned File:	ICAL012606	ICAL012606	

Review Items				2nd ✓	
A. Continuing Calibration (CCAL))	**Yes**	**No**	**N/A**		**If No, why is data reportable?**
1. **CCAL** meets criteria for all target analytes? (%D ≤ 15%)	✓			✓	
B. Client Sample					
1. Were all **special project requirements** met?	✓			✓	
2. Were **Turbochrom** sample IDs and DFs **verified**?	✓			✓	
2. Sample analyses done within preparation and analytical **holding time** (HT)? *If no, list samples and NCM#:* H6C300257	✓ JMH 4-5-06	✓			☑ *[ht1] HT expired upon receipt.* ☑ *[ht2] Client requested analysis after HT expired.** Client held sample past HT JMH 4/7/06
4. Same **process file** used for samples and ICAL? (2nd Level - Check 1-2 compounds for batch by manually calculating concentration using the ICAL curve.)	✓			✓	
5. Are **sample surrogates** within QC limits?	✓			✓	☐ **[sur3]** Not enough sample for re-extraction. ☐ **[sur7]** Obvious matrix interference. ☐ **[sur12]** Surr.%R high and all targets ND. ☐ **[sur13]** Surr. out, but blank & LCS surrogates in control - matrix effect.
6. Are positive results **within calibration range**?	✓			✓	
7. Is **integration** acceptable and are all manual integrations clearly identified, initialed, dated and reason given?	✓			✓	Reasons: 1) Corrected split peak; 2) Corrected baseline; 3) Tailing; 4) RT shift; 5) Wrong peak selected; 6) Other
8. Were runs checked for **carryover**?	✓			✓	
9. Final **report acceptable**? (Results correct, RLs and MDLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, deviations noted in narrative, dilution factor correct, and analysis dates correct.)	✓			✓	
C. QC Sample Results					
1. **Method blank** done per prep batch, method blank or instrument blank run with each sequence, and all analytes <RL?	✓			✓	☐ **[mb3]** No analyte > RL in associated samples. * ☐ **[mb4]** Sample results > 20x higher than blank. ☐ **[mb5]** Insufficient sample for reanalysis. *
2. **LCS/LCSD** done per prep batch and all recoveries and RPDs within laboratory established QC limits?	✓			✓	☐ **[lcs2]** Insufficient sample for reanalysis.* ☐ **[lcs3]** LCS %R high and all analyte(s) were <RL in associated samples.
3. **Method blank, LCS and LCSD surrogate recoveries** within QC limits?	✓			✓	☐ **[mb1]** Sample surrogates OK and there is no analyte >RL in samples associated with blank. * ☐ **[lsc1]** Sample surrogates OK.
D. Other					
1. Are all **nonconformances** documented appropriately?			✓	NA	

Analyst: Jim Humphrey	**Date:** 4-5-06	**2nd Level Reviewer:**	**Date:** 4-7-06
Comments:		**Comments:**	

* Such action must be taken in consultation with client.

Software Version: 4.1<2F12>
Sample Name : Solvent Peak Blank 040506 Time : 4/5/2006 11:06 AM
Sample Number: 3 Study :
Operator :

Instrument : COND Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2100574715 Data Acquisition Time: 4/5/2006 10:44 AM
Delay Time : 0.00 min.
End Time : 22.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : F:\GC\TURBOC~1\COND\2006DA~1\0405003.RAW
Result File : F:\GC\TURBOC~1\COND\2006DA~1\0405003.RST
Inst Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606 from F:\GC\TURBOC~1\CON
Proc Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Calib Method : F:\GC\TURBOC~1\COND\2006DA~1\CO012606
Sequence File : F:\GC\TURBOC~1\COND\2006DA~1\6D030177.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Method 0040 Condensate Results

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
	2.450	BP 0 to 30	31.6471	31.6471	126.5883	126.5883	16304782.09		4.69
	5.030	BP 30 TO 60 (C5)	0.2732	0.2732	1.0926	1.0926	991116.16		6.04
	7.875	BP 60 TO 90 (C6)	-0.1690	-0.1690	-0.6760	-0.6760	562103.50		4.61
	10.075	BP 90 to 98 (C7)	-0.1255	-0.1255	-0.5020	-0.5020	259622.50		4.11
22	11.814	Toluene	0.0000	0.0000	0.0000	0.0000	23255.00	*BB	3.27
24	12.886	n-Octane (SURR)	24.0834	24.0834	96.3334 ✓	96.3334	14497876.00	*BB	3.49
28	15.318	4-Bromofluorobenzene	100.0000	100.0000	400.0000	400.0000	27855460.00	*BB	3.05
			155.7091	155.7091	622.8363	622.8363	60494215.25		

Group Report For : BP 0 to 30

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
1	2.035		0.0000	0.0000	0.0000	0.0000	30995.50	BB	9.79
2	2.255		0.0000	0.0000	0.0000	0.0000	19619.00	*BB	1.68
3	2.330		0.0000	0.0000	0.0000	0.0000	5824.00	*BV	-2.96
4	2.392		0.0000	0.0000	0.0000	0.0000	3615562.00	*VV	2.75
5	2.513		0.0000	0.0000	0.0000	0.0000	1986922.50	*VV	10.74
6	2.717		0.0000	0.0000	0.0000	0.0000	402976.25	*VV	3.23
7	2.824	Acetone	0.0000	0.0000	0.0000	0.0000	9196165.84	*VV	5.24
8	3.470		0.0000	0.0000	0.0000	0.0000	1046717.00	*VV	11.80
			0.0000	0.0000	0.0000	0.0000	16304782.09		

Group Report For : BP 30 TO 60 (C5)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
9	3.933		0.0000	0.0000	0.0000	0.0000	555198.37	*VV	6.10
10	4.148		0.0000	0.0000	0.0000	0.0000	48622.63	*VV	3.82
11	4.284	Methylene chloride	0.0000	0.0000	0.0000	0.0000	304781.16	*VB	6.84
12	5.476		0.0000	0.0000	0.0000	0.0000	52574.00	*BB	5.62
13	5.806		0.0000	0.0000	0.0000	0.0000	29940.00	*BB	4.65
			0.0000	0.0000	0.0000	0.0000	991116.16		

Group Report For : BP 60 TO 90 (C6)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
14	6.835		0.0000	0.0000	0.0000	0.0000	241948.50	*BB	5.19
15	7.499		0.0000	0.0000	0.0000	0.0000	34468.00	*BB	4.51
16	8.256		0.0000	0.0000	0.0000	0.0000	207419.00	*BB	4.21
17	8.601		0.0000	0.0000	0.0000	0.0000	78268.00	*BB	4.25
			0.0000	0.0000	0.0000	0.0000	562103.50		

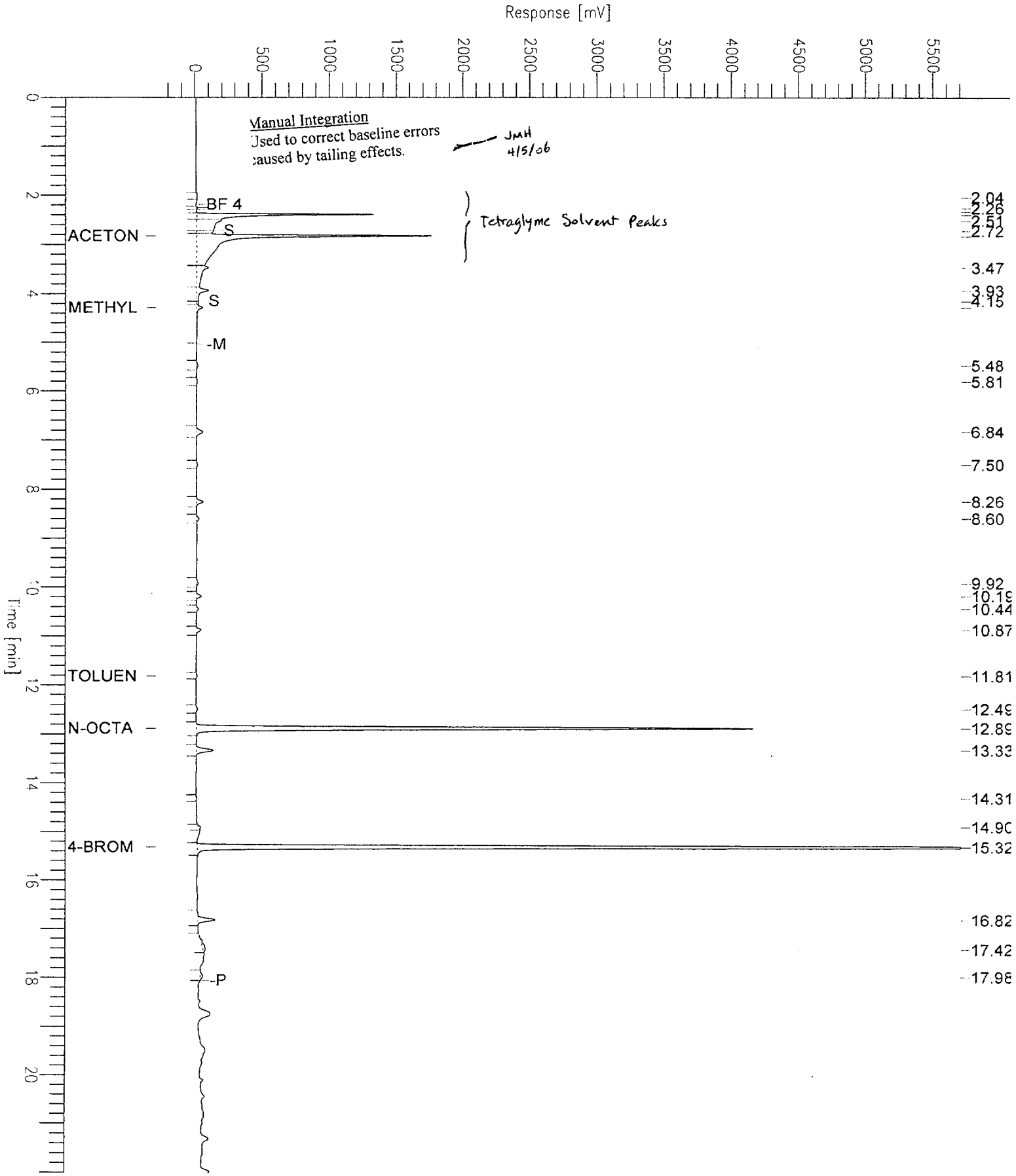
Group Report For : BP 90 to 98 (C7)

Peak #	Time [min]	Component Name	Concentration ug/L)	Corr. Conc. (ug/L)	Surrogate % Recovery	CCV % Recovery	Area [µV·s]	BL	Area/Height [s]
18	9.923		0.0000	0.0000	0.0000	0.0000	60720.50	*BB	5.09
19	10.187		0.0000	0.0000	0.0000	0.0000	148893.00	*BB	4.03
20	10.444		0.0000	0.0000	0.0000	0.0000	50009.00	*BB	3.48
			0.0000	0.0000	0.0000	0.0000	259622.50		

Chromatogram

Sample Name : Solvent Peak Blank 040506
FileName : F:\GC\TURBOC~1\COND\2006DA~1\0405003.raw
Method : C0012606
Start Time : 0.00 min End Time : 22.00 min
Scale Factor: -1.0 Plot Offset: -290 mV

Sample #: 3 Page 1 of 1
Date : 4/5/2006 11:06 AM
Time of Injection: 4/5/2006 10:44 AM
Low Point : -290.09 mV High Point : 5709.91 mV
Plot Scale: 6000.0 mV



Sample Receipt Documentation

Request for Analysis/Chain-of-Custody – RFA/COC #019 [Method 0040 Condensates]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

STL Knoxville Lot Number: HW030177
STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:	**Westates Carbon CPT**
STL Knoxville Project Number:	142541
STL Contact:	Ms. Patti Carswell (865) 291-3010
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080

Laboratory Deliverable Turnaround Requirements:	
Analytical Due Date: (Review-Released Data)	14 Days from Lab Receipt
Data Package Due Date:	21 Days from Lab Receipt
Laboratory Destination:	STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000
Courier:	Federal Express

Analytical Testing QC Requirements:
The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows:
"MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate,
"DUP" = Duplicate, and "PDS" = Post Digestion Spike

Project Deliverables:
Report analytical results on R-02 Reports and in data packages.
Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.

Holding Time Requirements:

Volatiles (Method 0040 Condensates)	14 Days to Analysis.

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2941-R1-Method 0040 Train Condensate	3-28-06		2 X 40 mL VOA Vials	**Condensate Run #1** Method 0040 Train Volatile Unspeciated Mass Analysis	Analyze this sample for volatile unspeciated mass using direct gas injection and flame ionization detection (GC/FID). Report each alkane group by total response within each boiling point window from C_4-C_7. Report each alkane group as ppb of the corresponding alkane group in a data package.
G-2942-R1-Method 0040 Blank Train Condensate	Did Not Collect	**Blank Train**	40 mL VOA Vial	**Condensate Run #1** Method 0040 Blank Train Volatile Unspeciated Mass Analysis	Analyze this sample for volatile unspeciated mass using direct gas injection and flame ionization detection (GC/FID). Report each alkane group by total response within each boiling point window from C_4-C_7. Report each alkane group as ppb of the corresponding alkane group in a data package.
G-2943-R1-Method 0040 Train Condensate TB	3-28-06	**Trip Blank**	40 mL VOA Vial	**Condensate Trip Blank Run #1** Method 0040 Train Volatile Unspeciated Mass Analysis	Analyze this sample for volatile unspeciated mass using direct gas injection and flame ionization detection (GC/FID). Report each alkane group by total response within each boiling point window from C_4-C_7. Report each alkane group as ppb of the corresponding alkane group in a data package.

Request for Analysis/Chain-of-Custody – RFA/COC #019 [Method 0040 Condensates]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3053-R2-Method 0040 Train Condensate	3-29-06		2 X 40 mL VOA Vials	**Condensate Run #2** Method 0040 Train Volatile Unspeciated Mass Analysis	Analyze this sample for volatile unspeciated mass using direct gas injection and flame ionization detection (GC/FID). Report each alkane group by total response within each boiling point window from C_4-C_7. Report each alkane group as ppb of the corresponding alkane group in a data package.
G-3137-R3-Method 0040 Train Condensate	3-30-06		2 X 40 mL VOA Vials	**Condensate Run #3** Method 0040 Train Volatile Unspeciated Mass Analysis	Analyze this sample for volatile unspeciated mass using direct gas injection and flame ionization detection (GC/FID). Report each alkane group by total response within each boiling point window from C_4-C_7. Report each alkane group as ppb of the corresponding alkane group in a data package.

Request for Analysis/Chain-of-Custody – RFA/COC #019 [Method 0040 Condensates]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

H6D030177

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:	Comments (Please write "NONE" if no comment applicable)
(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.	NONE
(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:	6°C
(3) Record any apparent sample loss/breakage.	NONE
(4) Record any unidentified samples transported with this shipment of samples:	NONE
(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):	HAND DELIVERED, NO CUSTODY SEALS

Custody Transfer:

	Name	Company	Date/Time
Relinquished By:			
Accepted By:	Benjamin K. Dawson	STL	4-2-06 16:25
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: STL KNOXVILLE **Project:** WESTATES CARBON CPT **Lot Number:** 14D030177

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	14A, 6A, G-3053 AND G-3137 1 OF 2 VIALS RECEIVED EMPTY.
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?		✓		☑ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?	✓			☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☑ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?		✓			

Quote #: 64351 PM Instructions: _____

Sample Receiving Associate: [signature] Date: _____

QA026R18.doc, 1/30/06