2655 Park Center Drive, Suite A Simi Valley, California 93065 (805) 526-7161 (805) 526-7270 fax

Columbia Analytical Services INC.
An Employee - Owned Company

November 8, 2007

Mr. Anand Helekar
TRC
21 Technology Drive
Irvine, CA 92618

RE: P2702702
WDI/125154.0000.0000

Dear Mr. Helekar:

Enclosed are the results of the sample(s) submitted to our laboratory on August 31, 2007. For your reference, these analyses have been assigned our service request number P2702702.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 78 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.

Kate Aguilera

Kate Aguilera
Project Manager

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Columbia Analytical Services INC.
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LABORATORY REPORT

Client:	TRC	Date of Report:	11/08/07
Address:	21 Technology Drive	Date Received:	08/31/07
	Irvine, CA 92618	CAS Project No:	P2702702
Contact:	Mr. Anand Helekar	Purchase Order:	IRV-804579

Client Project ID: WDI/125154.0000.0000

Two (2) Stainless Steel Summa Canisters labeled: "WDI-GTS-IN-8-30-07"
"WDI-GTS-OUT-8-30-07"

The samples were received at the laboratory under chain of custody on August 31, 2007. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Methane and Total Gaseous Non-Methane Organics as Methane Analysis

The samples were analyzed for methane and total gaseous non-methane organics as methane according to modified EPA Method 25C. The analyses included a single sample injection (method modification) analyzed by gas chromatography using flame ionization detection/total combustion analysis.

Fixed Gases Analysis

The samples were also analyzed for fixed gases (hydrogen, oxygen/argon, nitrogen, carbon monoxide, and carbon dioxide) according to modified EPA Method 3C (single injection) using a gas chromatograph equipped with a thermal conductivity detector (TCD).

Reviewed and Approved:

Wade Henton
GC-VOA Team Leader
Air Quality Laboratory

Reviewed and Approved:

Chris Parnell
GCMS-VOA Team Leader
Air Quality Laboratory

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CAS Project No: P2702702

Volatile Organic Compound Analysis

The samples were also analyzed by combined gas chromatography/mass spectrometry (GC/MS) for volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. However, the method was modified to include pressurization with Helium. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical system used was comprised of a Hewlett Packard Model 5973 GC/MS/DS interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The percent difference CCV report includes both positive and negative percent difference calculations, where positive percent differences correspond to biased low results and negative percent differences to biased high results.

The dilution for acetone for the sample labeled "WDI-GTS-IN-8-30-07" was analyzed outside of the client's specified hold time.

On September 13, 2007, acetone was biased high on the CRQL.

The results of analyses are given in the attached data package. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-GTS-IN-8-30-07**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P2702702-001

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00775

Date Collected: 8/30/07
Date Received: 8/31/07
Date Analyzed: 9/6/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.0 Pf 1 = 3.5
D.F. = 1.56

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**75**	0.78	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**17**	1.6	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-GTS-IN-8-30-07**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P2702702-001DUP

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00775

Date Collected: 8/30/07
Date Received: 8/31/07
Date Analyzed: 9/6/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.0 Pf 1 = 3.5
D.F. = 1.56

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**76**	0.78	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**17**	1.6	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 9/18/07

02702SVG.SC1 -Dup

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-GTS-OUT-8-30-07**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P2702702-002

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00844

Date Collected: 8/30/07
Date Received: 8/31/07
Date Analyzed: 9/6/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.6 Pf 1 = 3.6
D.F. = 1.51

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**72**	0.76	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.5**	1.5	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rev Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P070906-MB

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/6/07
Volume(s) Analyzed: 0.50 ml

D.F. = 1.00

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.50	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.0	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Lab Control Sample**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P070906-LCS

Laboratory Control Sample Summary

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/06/07
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Methane	57.5	58.7	102	90-110	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	345	337	98	90-110	

Verified By: RW Date: 9/18/07

Response Factor Report GC 01

Method : J:\GC01\METHODS\M102006.M (Chemstation Integrator)
Title : EPA 25C TCA/FID Analysis for TGNMO
Last Update : Mon Oct 23 16:38:21 2006
Response via : Initial Calibration

Calibration Files
1 =10200606.D 2 =10200607.D 3 =10200608.D
4 =10200609.D 5 =10200610.D 6 =10200611.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1)	Carbon Monoxide	5.184	5.715	5.812	6.058	6.017	6.064	5.808	E3	5
2)	Methane	6.638	6.124	6.356	6.256	6.204	6.190	6.295	E3	2
3)	Carbon Dioxide	5.461	7.056	6.139	6.279	6.073	6.194	6.200	E3	8
4)	TGNMO-1	6.773	6.683	5.923	6.159	6.535	6.429	6.417	E3	5
5)	TGMNO-2	6.773	6.683	5.923	6.159	6.535	6.429	6.417	E3	5

10/23/06

(#) = Out of Range

Compound # 2: Methane (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	0.550	3651			
2	4.034	24705			
3	11.006	69950			
4	80.680	504760			
5	2751.710	17070304			
6	20170.000	124856770			

	Integration Parameter File	Sum?
Tgt		
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Compound #4: TGHMO-1 (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	0.819	5547			
2	6.000	40100			
3	16.371	96872			
4	120.000	739089			
5	4072.300	26614390			
6	29850.000	191892442			

	Integration Parameter File	Sum?
Tgt		
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Prev | Next | Plot | Page 1 | Page 2 | OK | Cancel | Help

Compound #5: TGdHO-2 (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	0.819	5547			
2	6.000	40100			
3	16.371	96872			
4	120.000	739089			
5	4072.300	26614390			
6	29850.000	191892442			

	Integration Parameter File	Sum?
Tgt		
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Modified EPA Method 25C Daily QC Summary

Job# : TRC P2702702
Analyst : WHH
Method Name : EPA 25C TCA/FID Analysis for TGNMO

Instrument : GC01/TCD1
Date Analyzed : 9/6/07
Printed : 9/6/07

RT Summaries and QC Check (minutes)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGMNO-2		File ID	Time
ICAL Mean RT	**1.366**	**1.799**	**3.038**	**4.833**				
RT Windows (+/- min)	**0.030**	**0.031**	**0.038**	**0.030**				
STD 100/80ppm S14-08060703	1.376	1.797	3.016	4.843			09060702.D	09:24
+/- 0.33min of ICAL Mean RT	Pass	Pass	Pass	Pass				
MB			3.027 Pass	N/A	N/A		09060703.D	09:37
Lab Air	1.487 Fail	1.794 Pass	3.018 Pass	N/A	N/A		09060704.D	09:49
LCS 345ppm S14-04050602	1.382 Pass	1.803 Pass	3.023 Pass	N/A	N/A		09060705.D	10:04
2702-002 v	1.244 Fail	1.804 Pass	Vent	N/A	N/A		09060714.D	13:04
2702-001 v	1.245 Fail	1.803 Pass	Vent	N/A	N/A		09060715.D	13:16
2702-001dup v	1.251 Fail	1.805 Pass	Vent	N/A	N/A		09060716.D	13:37
STD 100/80ppm S14-08060703	1.385 Pass	1.810 Pass	3.034 Pass	N/A	N/A		09060717.D	13:54

vv = Vent CO_2 / CH_4 v = Vent CO_2 N/A : Not Applicable

Continuing Calibration Standards Summary (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide			TGMNO	File ID	Time
ACTUAL	100.2	81.0	100.2			99.7		
CCV Criteria (+/- %D)	**10.0%**	**10.0%**	**10.0%**			**10.0%**		
STD 100/80ppm S14-08060703	93.8 Pass	75.1 Pass	90.1 Fail			104.4 Pass	09060702.D	09:24
STD 100/80ppm S14-08060703	91.4 Pass	73.5 Pass	90.7 Pass			102.0 Pass	09060717.D	13:54

LCS / LCS Dup Summary (ppm, without DF correction)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide			TGMNO	File ID	Time
LCS Actual Conc. (ppm)	57.9	57.5	57.9			345.0		
LCS Criteria (% Range)	**86% -122%**	**81% - 118%**	**81% - 124%**			**81% - 116%**		
LCS 345ppm S14-04050602	60.9	58.7	58.2			336.9	09060705.D	Sep 2007 10:04
LCS % Recovery	105%	102%	100%			98%		
	Pass	Pass	Pass			Pass		

Lab Dup Summary (ppm, without DF correction)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide			TGMNO	File ID	Time
2702-001 v	0.5	48.4	Vent			10.8	09060715.D	Sep 2007 13:16
2702-001dup v	0.5	48.9	Vent			11.0	09060716.D	Sep 2007 13:37
Duplicate % RPD	3.1%	1.1%				1.6%		
Duplicate Criteria % RPD	**18%**	**21%**	**25%**			**14%**		
	Pass	Pass				Pass		

13

Directory: j:\gc01\data\25c\2006_10\20

Line	Vial	FileName	Multiplier		SampleName	Misc Info	Injected
	1	10200601.d	1.		STD 100/80ppmS14-10110605		20 Oct 106 12::4
2	1	10200602.d	1.		MB		20 Oct 106 12::5
3	1	10200603.d	1.		Lab Air		20 Oct 106 12::0
4	1	10200604.d	1.		LCS 345ppm		20 Oct 106 12::2
5	1	10200605.d	1.		test low		20 Oct 106 13::5
6	1	10200606.d	1.		STD 25C low level small loop	S14-10110606	20 Oct 106 13::0
7	1	10200607.d	1.		STD 25C low level normal loop	S14-10110606	20 Oct 106 13::3
8	1	10200608.d	1.		STD 25C mid level small loop	S14-10110605	20 Oct 106 12::0
9	1	10200609.d	1.		STD 25C mid level normal loop	S14-10110605	20 Oct 106 12::2
10	1	10200610.d	1.		STD 25C high level small loop	S14-10200601	20 Oct 106 12::1
11	1	10200611.d	1.		STD 25C high level normal loop	S14-10200601	20 Oct 106 12::3
12	1	10200612.d	1.		ICV S14-03270602		20 Oct 106 12::5
13	1	10200613.d	1.		ICV S14-03270602	aprox 100/80ppm	20 Oct 106 12::2
14	1	10200614.d	1.	X	MB electrical noise		20 Oct 106 12::3
15	1	10200615.d	1.		MB good		20 Oct 106 12::0
16	1	10200616.d	1.		MB		20 Oct 106 12::2

WP 10/23/06

COLUMBIA ANALYTICAL SERVICES
SAMPLE RUN LOG
ID: HP 5890 SERIES II / GC1

DATE : 9 / 6 / 2007 *DATA SYSTEM* : HP Chemstation *ANALYSIS:* ___25C ✓ 25C(MOD.) ___3C ___3C(MOD.)

INJECTOR : PACKED COLUMN
VALVE SYSTEM:
3C ___ REGULAR LOOP (100µL) ___ OTHER _____
25C ___ REGULAR LOOP (500µL) ___ SMALL LOOP (7.33:1)

COLUMN ID's :
___8' X 1/8" CARBOSPHERE
___4' X 1/8" TENAX / HAYSEP Q / CARBOSPHERE

TEMPERATURE PROGRAMMING :
INITIAL AT 50 °C FOR 2 min
RAMP RATE 30 °C/min TO 200 °C HOLD FOR 1 min

CARRIER GAS : He 25.1 mL/min

DETECTOR INFO : HP TCD #1 : 260 °C SENSITIVITY : INITIAL HIGH, 1.5 min LOW
HP FID #1 : 280 °C POLARITY : INITIAL NEGATIVE, 1.5 min POSITIVE

DATA PATHWAY : J:\GC1\DATA 25C/2007-09/06 **METHOD FILE NAME : J:\GC1\METHODS** M102006 **.M**

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD 100/80ppm 5 H-08060703		WH
02	↓		
03	MB		
04	Lab Air		
05	Lcs 345ppm 5 H-04050602		
06	Wait		
07	2736-001 ✓		
08	x		
09	Wait		
10	2736-002 ✓		
11	x		
12	wait		
13	2736-003 ✓		
14	2702-002 ✓		
15	001 ✓		
16	↓ 001 ✓ Dup		
17	STD 100/80ppm 5 H-08060703		
18	2744-001 ✓		
19	2744-002 ✓		
20	↓ 003 ✓		

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	2744-004 ✓		WH
22	STD 100/80ppm 5 H-08060703		
23	2739-003 ✓		
24	STD 100/80ppm 5 H-08060703		
25			
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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-GTS-IN-8-30-07**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P2702702-001

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00775

Date Collected: 8/30/07
Date Received: 8/31/07
Date Analyzed: 9/6/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.0 Pf 1 = 3.5
D.F. = 1.56

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**16.4**	0.16	
7727-37-9	Nitrogen	**79.9**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**3.68**	0.16	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
* = Coeluting Compounds

Verified By: Re Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-GTS-IN-8-30-07**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P2702702-001DUP

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00775

Date Collected: 8/30/07
Date Received: 8/31/07
Date Analyzed: 9/6/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.0 Pf 1 = 3.5
D.F. = 1.56

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**16.4**	0.16	
7727-37-9	Nitrogen	**79.8**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**3.73**	0.16	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
* = Coeluting Compounds

Verified By: Re Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-GTS-OUT-8-30-07**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P2702702-002

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00844

Date Collected: 8/30/07
Date Received: 8/31/07
Date Analyzed: 9/6/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.6 Pf 1 = 3.6

D.F. = 1.51

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.15	
7782-44-7 7440-37-1	Oxygen + Argon *	**16.4**	0.15	
7727-37-9	Nitrogen	**79.9**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**3.68**	0.15	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
* = Coeluting Compounds

Verified By: Rc Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P070906-MB

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/6/07
Volume(s) Analyzed: 0.10 ml

D.F. = 1.00

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.10	
7782-44-7 7440-37-1	Oxygen + Argon *	ND	0.10	
7727-37-9	Nitrogen	ND	0.10	
630-08-0	Carbon Monoxide	ND	0.10	
124-38-9	Carbon Dioxide	ND	0.10	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
* = Coeluting Compounds

Verified By: Rc Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Lab Control Sample**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P070906-LCS

Laboratory Control Sample Summary

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/06/07
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Hydrogen	40,300	39,000	**97**	90-110	
Oxygen + Argon *	50,600	51,500	**102**	90-110	
Nitrogen	50,100	50,200	**100**	90-110	
Carbon Monoxide	50,100	52,200	**104**	90-110	
Carbon Dioxide	50,100	51,800	**103**	90-110	

Verified By: R. Date: 9/18/07

Response Factor Report GC 01

Method : J:\GC01\METHODS\3C082007.M (Chemstation Integrator)
Title : EPA 3C GC/TCD Analysis for Fixed Gases
Last Update : Wed Jun 13 16:10:10 2007

Calibration Files
1 =08200708.D 2 =08200709.D 3 =08200710.D
4 =08200711.D 5 =08200712.D

	Compound	1	2	3	4	5	Avg		%RSD
1)	Hydrogen	0.858	0.834	0.916	1.084	0.962	0.931	E1	10.66
2)	Oxygen	1.395	1.175	1.301	1.319	1.104	1.259	E1	9.31
3)	Nitrogen	1.675	1.341	1.459	1.507	1.282	1.453	E1	10.54
4)	Carbon Monoxide	1.375	1.292	1.442	1.479	1.249	1.367	E1	7.11
5)	Methane	1.029	0.983	1.087	1.103	0.931	1.027	E1	6.97
6)	Carbon Dioxide	1.535	1.500	1.663	1.680	1.415	1.559	E1	7.18

8/21/07

(#) = Out of Range

Compound #1: Hydrogen (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	34.255	294			
2	681.700	5684			
3	4010.000	36737			
4	41984.700	455255			
5	72180.000	694699			

	Integration Parameter File	Sum?
Tgt		
S1		
S2		
S3		

Area Correction Mass 0.00

Correction Factor 0.000

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Compound #2: Oxygen (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	43.010	600			
2	849.490	9984			
3	4997.000	65000			
4	52318.590	690251			
5	89946.000	993213			

	Integration Parameter File	Sum?
Tgt		
D1		☐
D2		☐
D3		☐

Area Correction Mass: 0.00

Correction Factor: 0.000

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Compound #3: Nitrogen (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	42.585	713			
2	859.180	11525			
3	5054.000	73717			
4	52915.380	797242			
5	90972.000	1166444			

	Integration Parameter File	Sum?
Tgt		
Q1		☐
Q2		☐
Q3		☐

Area Correction Mass: 0.00

Correction Factor: 0.000

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Compound #4: Carbon Monoxide (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	42.585	585			
2	850.850	10994			
3	5005.000	72179			
4	52402.350	775048			
5	90090.000	1124961			

	Integration Parameter File	Sum?
Tgt		
Q1		☐
Q2		☐
Q3		☐

Area Correction Abs 0.00

Correction Factor 0.000

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Compound #5: Methane (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	34.425	354			
2	680.850	6693			
3	4005.000	43525			
4	41932.350	462524			
5	72090.000	671241			

	Integration Parameter File	Sum?
Tgt		
Q0		☐
Q2		☐
Q3		☐

Area Correction Mass: 0.00

Correction Factor: 0.000

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Compound #6: Carbon Dioxide (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	42.585	654			
2	856.120	12846			
3	5036.000	83745			
4	52726.692	885704			
5	90648.000	1282927			

	Integration Parameter File	Sum?
Tgt		
ID1		☐
ID2		☐
ID3		☐

Area Correction Mass: 0.00

Correction Factor: 0.000

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Modified EPA Method 3C Daily QC Summary

Calient & job# : TRC P2702702
Analyst : WHH
Method Name : EPA 3C GC/TCD Analysis for Fixed Gases

Instrument : GC01/TCD1
Date Analyzed : 9/6/07
Printed : 9/6/07

RT Summaries and QC Check (minutes)

Sample ID	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	File ID	Time
ICAL Mean RT	**0.754**	**2.291**	**2.472**	**3.165**	**5.134**	**6.786**		
RT Windows (+/- min)	**0.125**	**0.137**	**0.125**	**0.216**	**0.142**	**0.216**		
STD 50000ppm S14-12150601	0.713	2.248	2.429	3.118	5.113	6.776	09060702.D	09:24
+/- 0.33min of ICAL Mean RT	Pass	Pass	Pass	Pass	Pass	Pass		
MB							09060703.D	09:37
Lab Air		2.200 Pass	2.343 Pass			6.793 Pass	09060704.D	09:49
LCS 50000ppm S14-12070502	0.714 Pass	2.253 Pass	2.433 Pass	3.123 Pass	5.119 Pass	6.780 Pass	09060705.D	10:04
2702-002		2.218 Pass	2.366 Pass			6.776 Pass	09060710.D	12:08
2702-001		2.221 Pass	2.367 Pass			6.778 Pass	09060711.D	12:21
2702-001dup		2.232 Pass	2.379 Pass			6.785 Pass	09060712.D	12:36
STD 50000ppm S14-12150601	0.711 Pass	2.244 Pass	2.424 Pass	3.115 Pass	5.112 Pass	6.777 Pass	09060717.D	13:54

Continuing Calibration Standards Summary (ppm)

Sample ID	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	File ID	Time
ACTUAL	40100.0	49970.0	50540.0	50050.0	40050.0	50360.0		
CCV Criteria (+/- %D)	**15.0%**	**10.0%**	**10.0%**	**10.0%**	**10.0%**	**10.0%**		
STD 50000ppm S14-12150601	38550.9 Pass	50261.819 Pass	49447.465 Pass	51420.862 Pass	41479.149 Pass	52268.507 Pass	09060702.D	09:24
STD 50000ppm S14-12150601	38829.576 Pass	50628.136 Pass	49780.356 Pass	51958.046 Pass	41508.723 Pass	52578.315 Pass	09060717.D	13:54

Lab Dup Summary (ppm, without DF correction and nomalization)

Sample ID	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	File ID	Time
Duplicate Criteria % RPD	**37%**	**24%**	**19%**	**7%**	**10%**	**15%**		
2702-001		106236.7	517108.3			23813.5	09060711.D	12:21
2702-001dup		105745.0	513749.4			23997.9	09060712.D	12:36
Duplicate % RPD		0.5% Pass	0.7% Pass			0.8% Pass		

LCS / LCS Dup Summary (ppm, without DF correction)

Sample ID	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	File ID	Time
LCS Actual Conc. (ppm)	40300.0	50600.0	50100.0	50100.0	40500.0	50100.0		
LCS Criteria (% Range)	**85% -115%**	**90% - 110%**	**90% - 110%**	**90% - 110%**	**90% - 110%**	**90% - 110%**		
LCS 50000ppm S14-12070502	38991.3	51498.4	50150.2	52236.0	41833.8	51769.2	09060705.D	Sep 2007 10:04
LCS % Recovery	97% Pass	102% Pass	100% Pass	104% Pass	103% Pass	103% Pass		

Lab Air QC Summary

Sample ID	Hydrogen	Oxygen	Nitrogen	Carbon Monoxid	Methane	Carbon Dioxide	Lab Air Criteria Total (90%-110%)
Lab Air		209989.6	746723.7			415.2	95.7% Pass
Lab Air Normalized (%)		21.94%	78.01%			0.04%	100.0%

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Injection Log

Directory: j:\gc01\data\fxg\2007_08\20

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	08200701.d	10.	STD 50000ppm S14-12150601		20 Aug 107 12::
2	1	08200702.d	10.	STD 50000ppm S14-12150601		20 Aug 107 13::
3	1	08200703.d	10.	MB		20 Aug 107 13::
4	1	08200704.d	10.	Lab Air		20 Aug 107 13::
5	1	08200705.d	10.	wait		20 Aug 107 13::
6	1	08200706.d	10.	test		20 Aug 107 12::
7	1	08200707.d	10.	test		20 Aug 107 12::
8	1	08200708.d	10.	STD-1 S14-03260601 (loop 0.17)		20 Aug 107 12::
9	1	08200709.d	10.	STD-2 S14-12150601 (loop 0.17)		20 Aug 107 12::
10	1	08200710.d	10.	STD-3 S14-12150601 (loop 1.0)	good	20 Aug 107 12::
11	1	08200711.d	10.	STD-4 S14-12150601 (loop 10.47)		20 Aug 107 12::
12	1	08200712.d	10.	STD-5 S14-12150601 (loop 18.0)		20 Aug 107 12::
13	1	08200713.d	10.	misinject		20 Aug 107 12::
14	1	08200714.d	10.	ICV lab air		20 Aug 107 12::
15	1	08200715.d	10.	ICV 50000ppm S14-07240701		20 Aug 107 12::
16	1	08200716.d	10.	ICV 50000ppm S14-07240701 good		20 Aug 107 12::
17	1	08200717.d	10.	MB		20 Aug 107 12::
18	1	08200718.d	10.	MB good		21 Aug 107 13::

WT 8/22/07

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COLUMBIA ANALYTICAL SERVICES
SAMPLE RUN LOG
ID: HP 5890 SERIES II / GC1

DATE: 9 / 6 / 2007 *DATA SYSTEM*: HP Chemstation *ANALYSIS:* ___25C ___25C(MOD.) ___3C ✓ 3C(MOD.)

INJECTOR: PACKED COLUMN
VALVE SYSTEM:
3C ___ REGULAR LOOP (100µL) ___ OTHER _____
25C ___ REGULAR LOOP (500µL) ___ SMALL LOOP (7.33:1)

COLUMN ID's:
___8' X 1/8" CARBOSPHERE
___4' X 1/8" TENAX / HAYSEP Q / CARBOSPHERE

TEMPERATURE PROGRAMMING:
INITIAL AT 50 °C FOR 2 min
RAMP RATE 30 °C/min TO 200 °C HOLD FOR 1 min

CARRIER GAS: He 25.1 mL/min

DETECTOR INFO: HP TCD #1: 260 °C SENSITIVITY: INITIAL HIGH, 1.5 min LOW
HP FID #1: 280 °C POLARITY: INITIAL NEGATIVE, 1.5 min POSITIVE

DATA PATHWAY : J:\GC1\DATA Fys\2007_09\06 **METHOD FILE NAME : J:\GC1\METHODS** 3C08-2007 **.M**

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD 50000 ppm 514-12150601		WH
02			
03	MB		
04	Lab Air		
05	LCS 50000 ppm 514-12070502		
06	2736-001		
07	002		
08	003		
09	Wait		
10	2702-002		
11	001		
12	001 Dup		
13	2744-001		
14	002		
15	003		
16	004		
17	STD 50000 ppm 514-12150601		
18	Wait		
19	2739-002		
20	005		

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	2739-006		wt
22	001		
23	004		
24	006		
25	STD 50000 ppm 514-12150601		
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-GTS-IN-8-30-07**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P2702702-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00775

Date Collected: 8/30/07
Date Received: 8/31/07
Date(s) Analyzed: 9/10/07 & 9/13/07
Volume(s) Analyzed: 0.10 Liter(s)
0.0030 Liter(s)

Pi 1 = -3.0 Pf 1 = 3.5
Can D.F. = 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**18**	16	**8.8**	7.6	
75-01-4	Vinyl Chloride	ND	16	ND	6.1	
74-83-9	Bromomethane	ND	16	ND	4.0	
75-00-3	Chloroethane	ND	16	ND	5.9	
67-64-1	Acetone	**17,000**	78	**7,000**	33	**H**
75-69-4	Trichlorofluoromethane	ND	16	ND	2.8	
75-35-4	1,1-Dichloroethene	ND	16	ND	3.9	
75-09-2	Methylene chloride	ND	16	ND	4.5	
76-13-1	Trichlorotrifluoroethane	ND	16	ND	2.0	
75-15-0	Carbon Disulfide	**31**	16	**9.9**	5.0	
156-60-5	trans-1,2-Dichloroethene	ND	16	ND	3.9	
75-34-3	1,1-Dichloroethane	ND	16	ND	3.9	
1634-04-4	Methyl tert-Butyl Ether	ND	16	ND	4.3	
108-05-4	Vinyl Acetate	**240**	78	**69**	22	**M**
78-93-3	2-Butanone (MEK)	**640**	16	**220**	5.3	
156-59-2	cis-1,2-Dichloroethene	ND	16	ND	3.9	
67-66-3	Chloroform	ND	16	ND	3.2	
107-06-2	1,2-Dichloroethane	ND	16	ND	3.9	
71-55-6	1,1,1-Trichloroethane	ND	16	ND	2.9	
71-43-2	Benzene	**25**	16	**7.9**	4.9	
56-23-5	Carbon Tetrachloride	ND	16	ND	2.5	
78-87-5	1,2-Dichloropropane	ND	16	ND	3.4	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.
H = Sample analyzed outside of client's specified holding time.

Verified By: RG Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-GTS-IN-8-30-07**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P2702702-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00775

Date Collected: 8/30/07
Date Received: 8/31/07
Date(s) Analyzed: 9/10/07 & 9/13/07
Volume(s) Analyzed: 0.10 Liter(s)
0.0030 Liter(s)

Pi 1 = -3.0 Pf 1 = 3.5

Can D.F. = 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	16	ND	2.3	
79-01-6	Trichloroethene	ND	16	ND	2.9	
10061-01-5	cis-1,3-Dichloropropene	ND	16	ND	3.4	
108-10-1	4-Methyl-2-pentanone	**21**	16	**5.2**	3.8	
10061-02-6	trans-1,3-Dichloropropene	ND	16	ND	3.4	
79-00-5	1,1,2-Trichloroethane	ND	16	ND	2.9	
108-88-3	Toluene	ND	16	ND	4.1	
591-78-6	2-Hexanone	**58**	16	**14**	3.8	
124-48-1	Dibromochloromethane	ND	16	ND	1.8	
106-93-4	1,2-Dibromoethane	ND	16	ND	2.0	
127-18-4	Tetrachloroethene	**71**	16	**10**	2.3	
108-90-7	Chlorobenzene	ND	16	ND	3.4	
100-41-4	Ethylbenzene	ND	16	ND	3.6	
179601-23-1	*m,p*-Xylenes	ND	16	ND	3.6	
75-25-2	Bromoform	ND	16	ND	1.5	
100-42-5	Styrene	ND	16	ND	3.7	
95-47-6	o-Xylene	ND	16	ND	3.6	
79-34-5	1,1,2,2-Tetrachloroethane	ND	16	ND	2.3	
541-73-1	1,3-Dichlorobenzene	ND	16	ND	2.6	
106-46-7	1,4-Dichlorobenzene	ND	16	ND	2.6	
95-50-1	1,2-Dichlorobenzene	ND	16	ND	2.6	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-GTS-IN-8-30-07**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P2702702-001DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00775

Date Collected: 8/30/07
Date Received: 8/31/07
Date(s) Analyzed: 9/10/07 & 9/13/07
Volume(s) Analyzed: 0.10 Liter(s)
0.0030 Liter(s)

Pi 1 = -3.0 Pf 1 = 3.5

Can D.F. = 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**18**	16	**8.7**	7.6	
75-01-4	Vinyl Chloride	ND	16	ND	6.1	
74-83-9	Bromomethane	ND	16	ND	4.0	
75-00-3	Chloroethane	ND	16	ND	5.9	
67-64-1	Acetone	**16,000**	78	**6,800**	33	**H**
75-69-4	Trichlorofluoromethane	ND	16	ND	2.8	
75-35-4	1,1-Dichloroethene	ND	16	ND	3.9	
75-09-2	Methylene chloride	ND	16	ND	4.5	
76-13-1	Trichlorotrifluoroethane	ND	16	ND	2.0	
75-15-0	Carbon Disulfide	**31**	16	**10**	5.0	
156-60-5	trans-1,2-Dichloroethene	ND	16	ND	3.9	
75-34-3	1,1-Dichloroethane	ND	16	ND	3.9	
1634-04-4	Methyl tert-Butyl Ether	ND	16	ND	4.3	
108-05-4	Vinyl Acetate	**240**	78	**67**	22	**M**
78-93-3	2-Butanone (MEK)	**650**	16	**220**	5.3	
156-59-2	cis-1,2-Dichloroethene	ND	16	ND	3.9	
67-66-3	Chloroform	ND	16	ND	3.2	
107-06-2	1,2-Dichloroethane	ND	16	ND	3.9	
71-55-6	1,1,1-Trichloroethane	ND	16	ND	2.9	
71-43-2	Benzene	**26**	16	**8.0**	4.9	
56-23-5	Carbon Tetrachloride	ND	16	ND	2.5	
78-87-5	1,2-Dichloropropane	ND	16	ND	3.4	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.
H = Sample analyzed outside of client's specified holding time.

Verified By: RG Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-GTS-IN-8-30-07**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P2702702-001DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00775

Date Collected: 8/30/07
Date Received: 8/31/07
Date(s) Analyzed: 9/10/07 & 9/13/07
Volume(s) Analyzed: 0.10 Liter(s)
0.0030 Liter(s)

Pi 1 = -3.0 Pf 1 = 3.5

Can D.F. = 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	16	ND	2.3	
79-01-6	Trichloroethene	**16**	16	**2.9**	2.9	
10061-01-5	cis-1,3-Dichloropropene	ND	16	ND	3.4	
108-10-1	4-Methyl-2-pentanone	**22**	16	**5.4**	3.8	
10061-02-6	trans-1,3-Dichloropropene	ND	16	ND	3.4	
79-00-5	1,1,2-Trichloroethane	ND	16	ND	2.9	
108-88-3	Toluene	ND	16	ND	4.1	
591-78-6	2-Hexanone	**55**	16	**14**	3.8	
124-48-1	Dibromochloromethane	ND	16	ND	1.8	
106-93-4	1,2-Dibromoethane	ND	16	ND	2.0	
127-18-4	Tetrachloroethene	**71**	16	**11**	2.3	
108-90-7	Chlorobenzene	ND	16	ND	3.4	
100-41-4	Ethylbenzene	ND	16	ND	3.6	
179601-23-1	*m,p*-Xylenes	ND	16	ND	3.6	
75-25-2	Bromoform	ND	16	ND	1.5	
100-42-5	Styrene	ND	16	ND	3.7	
95-47-6	o-Xylene	ND	16	ND	3.6	
79-34-5	1,1,2,2-Tetrachloroethane	ND	16	ND	2.3	
541-73-1	1,3-Dichlorobenzene	ND	16	ND	2.6	
106-46-7	1,4-Dichlorobenzene	ND	16	ND	2.6	
95-50-1	1,2-Dichlorobenzene	ND	16	ND	2.6	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rcr Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-GTS-OUT-8-30-07**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P2702702-002

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00844

Date Collected: 8/30/07
Date Received: 8/31/07
Date(s) Analyzed: 9/10/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.6

Can D.F. = 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**1.7**	1.5	**0.80**	0.73	
75-01-4	Vinyl Chloride	**6.1**	1.5	**2.4**	0.59	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	**9.5**	1.5	**3.6**	0.57	
67-64-1	Acetone	**36**	7.6	**15**	3.2	
75-69-4	Trichlorofluoromethane	**6.6**	1.5	**1.2**	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.38	
75-09-2	Methylene chloride	ND	1.5	ND	0.43	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.38	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.37	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	7.6	ND	2.1	
78-93-3	2-Butanone (MEK)	**27**	1.5	**9.2**	0.51	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.38	
67-66-3	Chloroform	**9.4**	1.5	**1.9**	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.37	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**20**	1.5	**6.4**	0.47	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rev Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-GTS-OUT-8-30-07**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P2702702-002

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00844

Date Collected: 8/30/07
Date Received: 8/31/07
Date(s) Analyzed: 9/10/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.6

Can D.F. = 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.23	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**2.4**	1.5	**0.64**	0.40	
591-78-6	2-Hexanone	**4.8**	1.5	**1.2**	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	ND	1.5	ND	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	ND	1.5	ND	0.35	
179601-23-1	*m,p* -Xylenes	**2.7**	1.5	**0.62**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.35	
95-47-6	o-Xylene	ND	1.5	ND	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P070910-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 9/10/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P070910-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 9/10/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
179601-23-1	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Ru Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P070913-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 9/13/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702702
CAS Sample ID: P070913-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 9/13/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
179601-23-1	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Project ID: **WDI**

CAS Project ID: P2702702

Surrogate Spike Recovery Results

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister(s)
Test Notes:

Date Collected: 8/30/07
Date Received: 8/31/07
Date Analyzed: 9/10 - 9/13/07

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4		Toluene-d8		Bromofluorobenzene		Data Qualifier
		% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	
Method Blank	P070910-MB	**106**	80-120	**106**	80-120	**102**	80-120	
Method Blank	P070913-MB	**102**	80-120	**110**	80-120	**100**	80-120	
Lab Control Sample	P070910-LCS	**105**	80-120	**108**	80-120	**105**	80-120	
Lab Control Sample	P070913-LCS	**100**	80-120	**109**	80-120	**102**	80-120	
Duplicate Lab Control Sample	P070910-DLCS	**103**	80-120	**107**	80-120	**104**	80-120	
Duplicate Lab Control Sample	P070913-DLCS	**97**	80-120	**108**	80-120	**104**	80-120	
WDI-GTS-IN-8-30-07	P2702702-001	**105**	80-120	**106**	80-120	**102**	80-120	
WDI-GTS-IN-8-30-07	P2702702-001DUP	**103**	80-120	**107**	80-120	**103**	80-120	
WDI-GTS-OUT-8-30-07	P2702702-002	**101**	80-120	**109**	80-120	**103**	80-120	

Verified By: Rev Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Duplicate Lab Control Sample**
Client Project ID : **WDI**

CAS Project ID: P2702702
CAS Sample ID: P070910-LCS, P070910-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/10/07
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Chloromethane	24.3	17.7	16.9	**73**	**70**	65-135	**4**	35	
Vinyl Chloride	24.8	24.3	25.0	**98**	**101**	65-135	**3**	35	
Bromomethane	25.0	23.0	24.2	**92**	**97**	65-135	**5**	35	
Chloroethane	25.0	23.5	24.2	**94**	**97**	65-135	**3**	35	
Acetone	26.5	24.3	25.0	**92**	**94**	65-135	**2**	35	
Trichlorofluoromethane	24.3	24.9	25.6	**102**	**105**	65-135	**3**	35	
1,1-Dichloroethene	27.3	26.0	27.0	**95**	**99**	65-135	**4**	35	
Methylene chloride	26.8	24.5	25.4	**91**	**95**	65-135	**4**	35	
Trichlorotrifluoroethane	27.0	26.1	26.9	**97**	**100**	65-135	**3**	35	
Carbon Disulfide	25.0	24.8	26.0	**99**	**104**	65-135	**5**	35	
trans-1,2-Dichloroethene	26.3	25.4	26.2	**97**	**100**	65-135	**3**	35	
1,1-Dichloroethane	26.3	26.0	26.8	**99**	**102**	65-135	**3**	35	
Methyl tert-Butyl Ether	26.3	28.1	27.8	**107**	**106**	65-135	**0.9**	35	
Vinyl Acetate	24.3	26.2	26.3	**108**	**108**	65-135	**0**	35	
2-Butanone (MEK)	26.8	25.3	26.3	**94**	**98**	65-135	**4**	35	
cis-1,2-Dichloroethene	26.5	25.6	26.5	**97**	**100**	65-135	**3**	35	
Chloroform	30.0	28.1	28.7	**94**	**96**	65-135	**2**	35	
1,2-Dichloroethane	26.0	26.7	27.1	**103**	**104**	65-135	**1**	35	
1,1,1-Trichloroethane	26.3	25.2	25.1	**96**	**95**	65-135	**1**	35	
Benzene	26.3	23.4	24.5	**89**	**93**	65-135	**4**	35	
Carbon Tetrachloride	25.8	28.1	28.3	**109**	**110**	65-135	**0.9**	35	
1,2-Dichloropropane	26.0	23.0	24.1	**88**	**93**	65-135	**6**	35	

Verified By: Rer Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Duplicate Lab Control Sample**
Client Project ID : **WDI**

CAS Project ID: P2702702
CAS Sample ID: P070910-LCS, P070910-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/10/07
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	26.9	27.4	**98**	**100**	65-135	**2**	35	
Trichloroethene	27.3	24.8	25.7	**91**	**94**	65-135	**3**	35	
cis-1,3-Dichloropropene	26.0	23.8	24.5	**92**	**94**	65-135	**2**	35	
4-Methyl-2-pentanone	26.5	25.3	27.0	**95**	**102**	65-135	**7**	35	
trans-1,3-Dichloropropene	27.8	27.3	28.2	**98**	**101**	65-135	**3**	35	
1,1,2-Trichloroethane	25.8	24.6	25.5	**95**	**99**	65-135	**4**	35	
Toluene	26.0	24.4	25.6	**94**	**98**	65-135	**4**	35	
2-Hexanone	26.0	25.3	26.3	**97**	**101**	65-135	**4**	35	
Dibromochloromethane	26.5	29.0	29.8	**109**	**112**	65-135	**3**	35	
1,2-Dibromoethane	26.0	26.0	26.9	**100**	**103**	65-135	**3**	35	
Tetrachloroethene	25.8	24.3	25.3	**94**	**98**	65-135	**4**	35	
Chlorobenzene	26.0	24.5	25.6	**94**	**98**	65-135	**4**	35	
Ethylbenzene	25.8	24.8	25.8	**96**	**100**	65-135	**4**	35	
m,p-Xylenes	61.5	60.6	63.0	**99**	**102**	65-135	**3**	35	
Bromoform	31.3	34.9	36.8	**112**	**118**	65-135	**5**	35	
Styrene	25.8	25.5	26.2	**99**	**102**	65-135	**3**	35	
o-Xylene	29.0	28.1	29.5	**97**	**102**	65-135	**5**	35	
1,1,2,2-Tetrachloroethane	29.3	28.4	29.7	**97**	**101**	65-135	**4**	35	
1,3-Dichlorobenzene	25.3	24.8	25.5	**98**	**101**	65-135	**3**	35	
1,4-Dichlorobenzene	26.0	25.3	26.0	**97**	**100**	65-135	**3**	35	
1,2-Dichlorobenzene	25.5	25.2	26.1	**99**	**102**	65-135	**3**	35	

Verified By: Rc Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Duplicate Lab Control Sample**
Client Project ID : **WDI**

CAS Project ID: P2702702
CAS Sample ID: P070913-LCS, P070913-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/13/07
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Chloromethane	24.3	17.4	17.2	**72**	**71**	65-135	**1**	35	
Vinyl Chloride	24.8	24.1	24.4	**97**	**98**	65-135	**1**	35	
Bromomethane	25.0	23.4	23.1	**94**	**92**	65-135	**2**	35	
Chloroethane	25.0	23.8	24.3	**95**	**97**	65-135	**2**	35	
Acetone	26.5	24.9	25.5	**94**	**96**	65-135	**2**	35	
Trichlorofluoromethane	24.3	23.7	23.7	**98**	**98**	65-135	**0**	35	
1,1-Dichloroethene	27.3	25.9	26.4	**95**	**97**	65-135	**2**	35	
Methylene chloride	26.8	24.8	24.8	**93**	**93**	65-135	**0**	35	
Trichlorotrifluoroethane	27.0	25.7	25.8	**95**	**96**	65-135	**1**	35	
Carbon Disulfide	25.0	24.9	25.0	**100**	**100**	65-135	**0**	35	
trans-1,2-Dichloroethene	26.3	24.9	25.2	**95**	**96**	65-135	**1**	35	
1,1-Dichloroethane	26.3	26.0	26.3	**99**	**100**	65-135	**1**	35	
Methyl tert-Butyl Ether	26.3	27.1	29.0	**103**	**110**	65-135	**7**	35	
Vinyl Acetate	24.3	27.0	27.3	**111**	**112**	65-135	**0.9**	35	
2-Butanone (MEK)	26.8	26.0	26.4	**97**	**99**	65-135	**2**	35	
cis-1,2-Dichloroethene	26.5	25.1	25.3	**95**	**95**	65-135	**0**	35	
Chloroform	30.0	27.1	27.0	**90**	**90**	65-135	**0**	35	
1,2-Dichloroethane	26.0	25.0	24.8	**96**	**95**	65-135	**1**	35	
1,1,1-Trichloroethane	26.3	23.9	24.1	**91**	**92**	65-135	**1**	35	
Benzene	26.3	23.7	24.1	**90**	**92**	65-135	**2**	35	
Carbon Tetrachloride	25.8	26.6	27.1	**103**	**105**	65-135	**2**	35	
1,2-Dichloropropane	26.0	23.4	23.9	**90**	**92**	65-135	**2**	35	

Verified By: RC Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Duplicate Lab Control Sample**
Client Project ID : **WDI**

CAS Project ID: P2702702
CAS Sample ID: P070913-LCS, P070913-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/13/07
Volume(s) Analyzed: NA

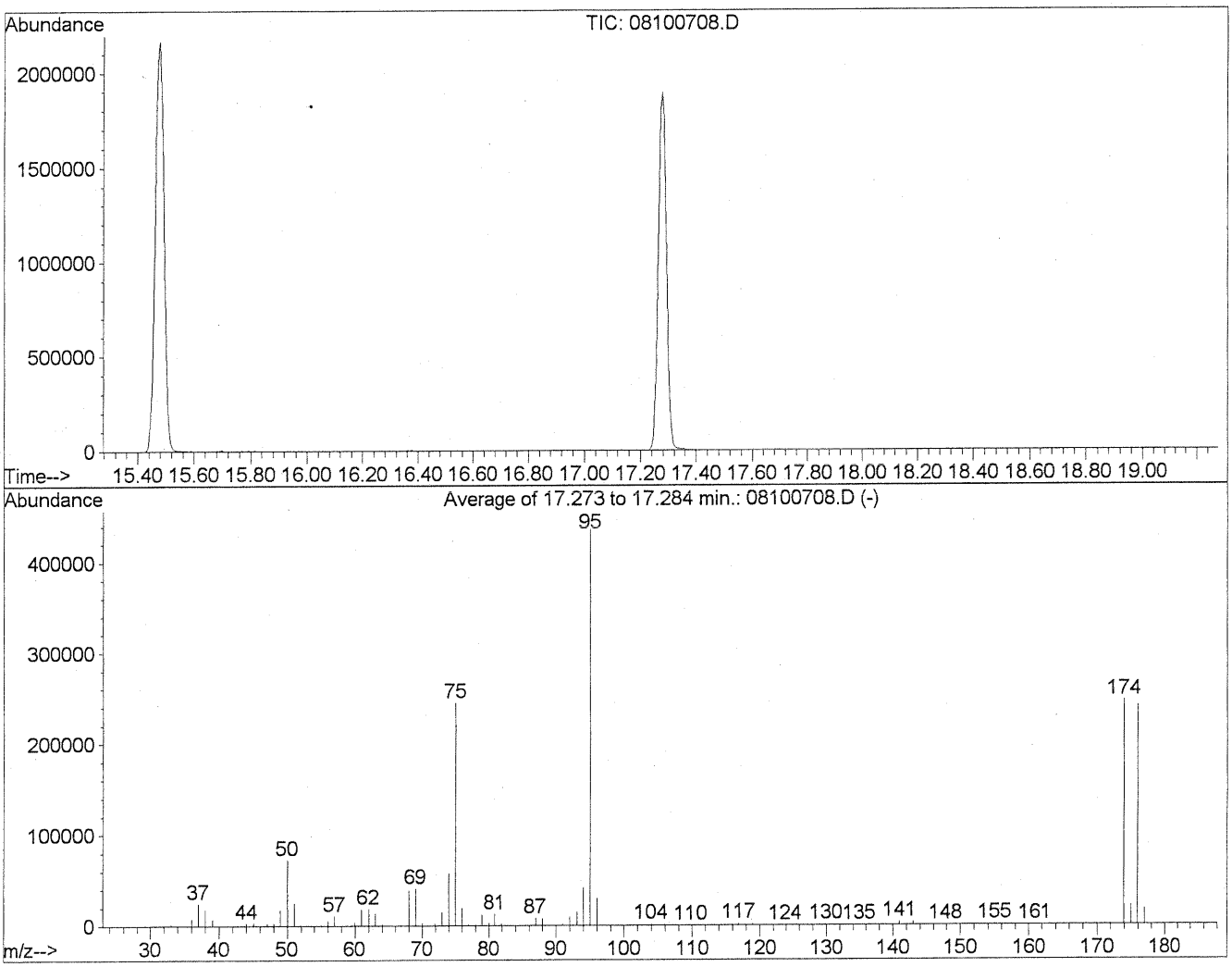
Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	25.8	26.2	**94**	**95**	65-135	**1**	35	
Trichloroethene	27.3	23.9	24.7	**88**	**90**	65-135	**2**	35	
cis-1,3-Dichloropropene	26.0	23.5	24.0	**90**	**92**	65-135	**2**	35	
4-Methyl-2-pentanone	26.5	25.8	26.3	**97**	**99**	65-135	**2**	35	
trans-1,3-Dichloropropene	27.8	26.9	27.0	**97**	**97**	65-135	**0**	35	
1,1,2-Trichloroethane	25.8	24.2	24.8	**94**	**96**	65-135	**2**	35	
Toluene	26.0	24.2	25.0	**93**	**96**	65-135	**3**	35	
2-Hexanone	26.0	24.9	25.4	**96**	**98**	65-135	**2**	35	
Dibromochloromethane	26.5	27.7	28.2	**105**	**106**	65-135	**0.9**	35	
1,2-Dibromoethane	26.0	25.4	26.4	**98**	**102**	65-135	**4**	35	
Tetrachloroethene	25.8	23.9	24.3	**93**	**94**	65-135	**1**	35	
Chlorobenzene	26.0	24.1	24.8	**93**	**95**	65-135	**2**	35	
Ethylbenzene	25.8	24.4	25.1	**95**	**97**	65-135	**2**	35	
m,p-Xylenes	61.5	58.8	60.7	**96**	**99**	65-135	**3**	35	
Bromoform	31.3	33.2	34.3	**106**	**110**	65-135	**4**	35	
Styrene	25.8	24.5	25.3	**95**	**98**	65-135	**3**	35	
o-Xylene	29.0	27.5	28.3	**95**	**98**	65-135	**3**	35	
1,1,2,2-Tetrachloroethane	29.3	28.5	29.2	**97**	**100**	65-135	**3**	35	
1,3-Dichlorobenzene	25.3	23.8	24.5	**94**	**97**	65-135	**3**	35	
1,4-Dichlorobenzene	26.0	24.3	25.3	**93**	**97**	65-135	**4**	35	
1,2-Dichlorobenzene	25.5	24.2	25.3	**95**	**99**	65-135	**4**	35	

Verified By: Rer Date: 9/18/07

BFB

Data File : J:\MS03\DATA\2007_08\10\08100708.D
Acq On : 10 Aug 2007 17:25
Sample : BFB Tune Standard (200mL)
Misc : S15-08010701
MS Integration Params: rteint.p
Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00



AutoFind: Scans 2439, 2440, 2441; Background Corrected with Scan 2429

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	72405	PASS
75	95	30	66	56.2	244672	PASS
95	95	100	100	100.0	435563	PASS
96	95	5	9	6.8	29427	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	56.5	246144	PASS
175	174	4	9	8.6	21128	PASS
176	174	93	101	97.7	240448	PASS
177	176	5	9	7.2	17323	PASS

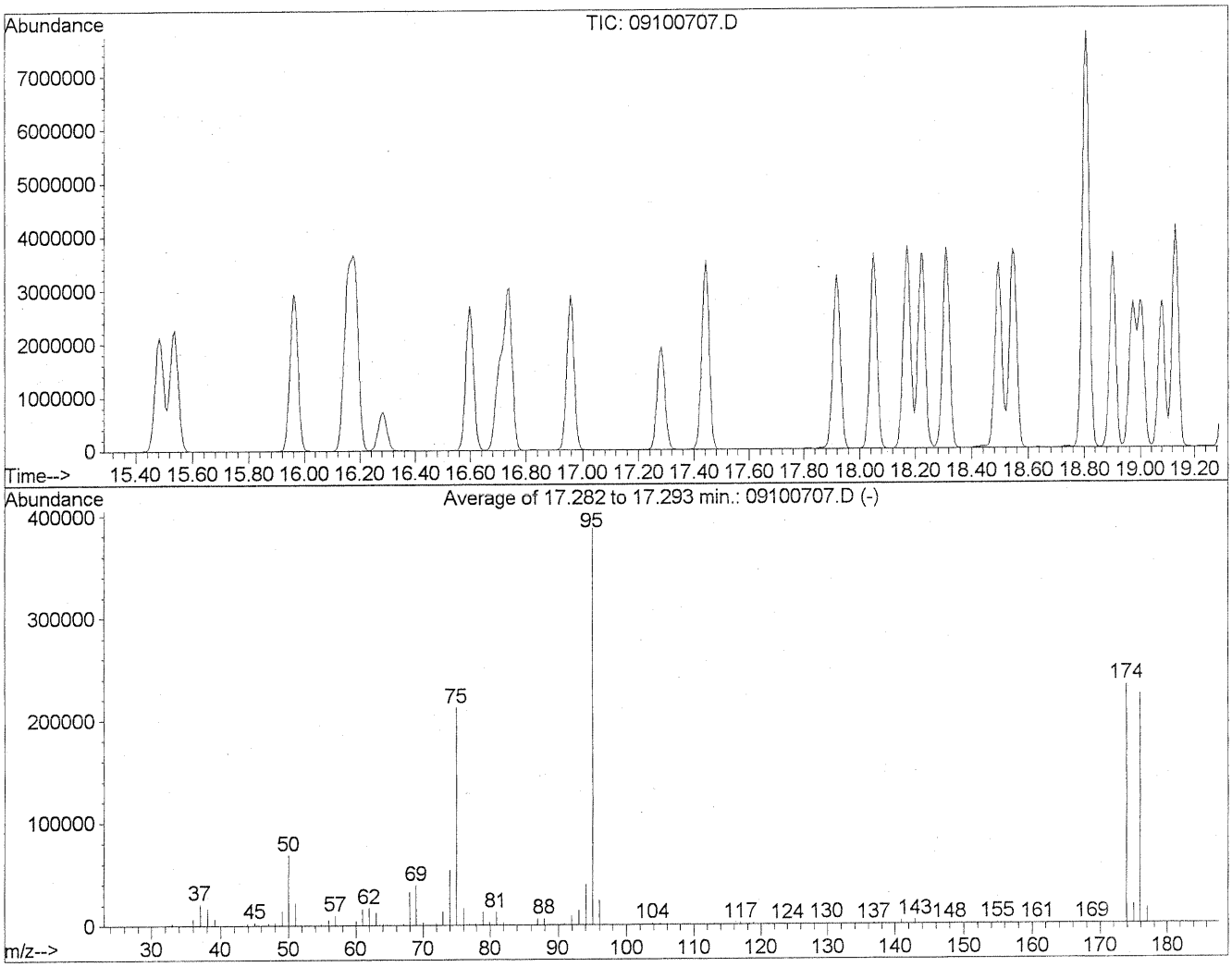
08100708.D R3081007.M Sun Aug 12 17:58:13 2007

B 08/13/07

BFB

Data File : J:\MS03\DATA\2007_09\10\09100707.D
Acq On : 10 Sep 2007 10:14
Sample : 25ng TO-15 CCV Standard
Misc : ~~S15~~ S20 -09090701/S15-08280706 09/13/07
MS Integration Params: rteint.p
Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00



AutoFind: Scans 2441, 2442, 2443; Background Corrected with Scan 2430

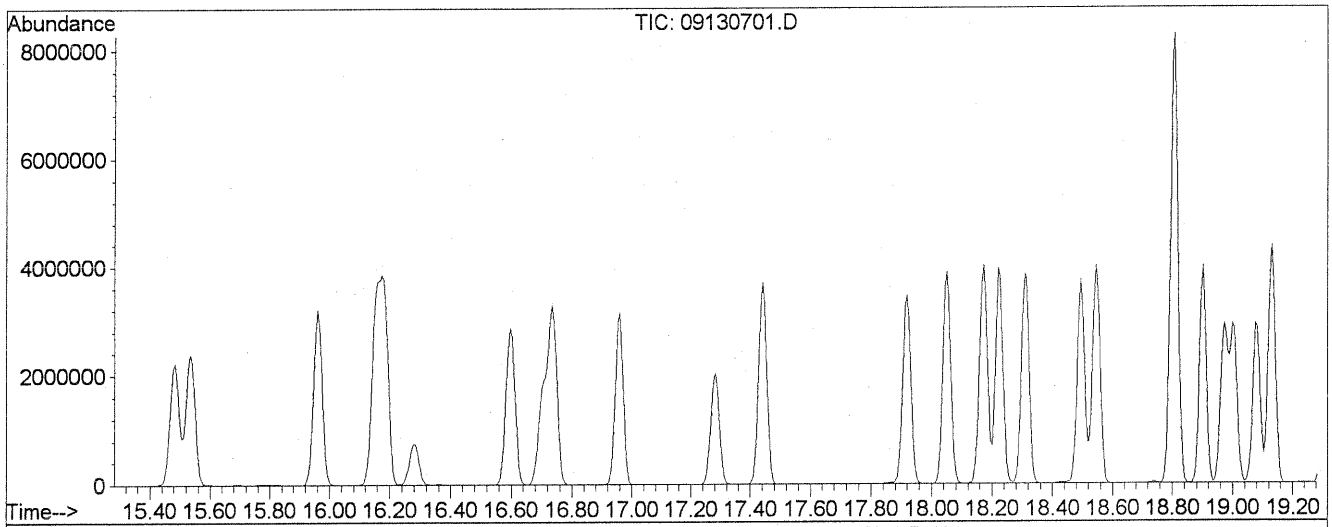
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.7	68349	PASS
75	95	30	66	54.9	211989	PASS
95	95	100	100	100.0	386304	PASS
96	95	5	9	6.2	23864	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	60.2	232683	PASS
175	174	4	9	7.8	18100	PASS
176	174	93	101	95.9	223061	PASS
177	176	5	9	6.6	14681	PASS

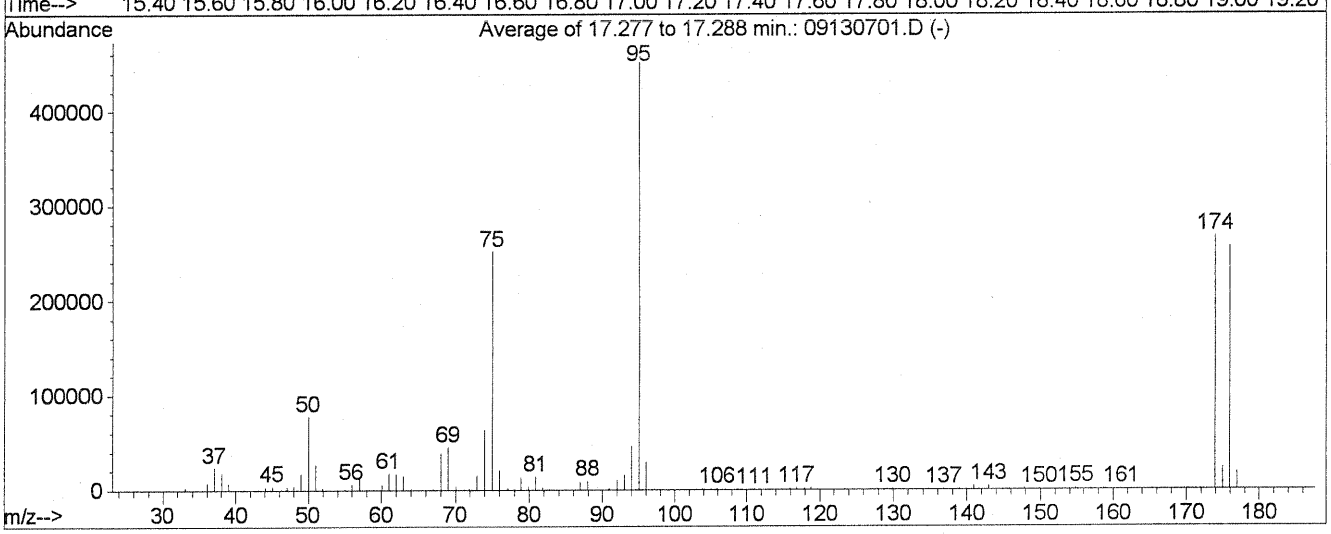
09100707.D R3081007.M Mon Sep 10 10:50:35 2007

09/10/07

BFB

Data File : J:\MS03\DATA\2007_09\13\09130701.D Vial: 3
Acq On : 13 Sep 2007 8:10 Operator: RTB
Sample : 25ng TO-15 CCV Standard Inst : MSD3
Misc 09/13/07 : ~~S15~~ S20-09090701/S15-08280706 Multiplr: 1.00
MS Integration Params: events.e
Method : J:\MS03\METHODS\R3081007.M (Chemstation Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD





AutoFind: Scans 2440, 2441, 2442; Background Corrected with Scan 2431

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.2	77531	PASS
75	95	30	66	55.6	251477	PASS
95	95	100	100	100.0	451947	PASS
96	95	5	9	6.4	28981	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	59.1	266880	PASS
175	174	4	9	8.6	22864	PASS
176	174	93	101	95.9	256064	PASS
177	176	5	9	7.0	17912	PASS

09130701.D R3081007.M Thu Sep 13 10:11:03 2007 09/13/07

Response Factor Report MSD3

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Initial Calibration

Calibration Files
0.5 =08100709.D 1 =08100710.D 5 =08100711.D
25 =08100712.D 50 =08100713.D 100 =08100714.D

		Compound	0.5	1	5	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I	----------ISTD----------							
2)	T	Propene	1.497	1.358	1.331	1.230	1.237	1.298	1.325	7.41
3)	T	Dichlorodifluoromet	5.270	4.874	4.267	3.992	3.656	3.462	4.254	16.53
4)	T	Chloromethane	2.298	2.315	1.947	1.980	1.802	1.467	1.968	16.21
5)	T	Freon 114	1.404	1.246	1.138	1.075	1.010	0.940	1.135	14.84
6)	T	Vinyl Chloride	2.660	2.683	2.425	2.372	2.246	2.193	2.430	8.44
7)	T	1,3-Butadiene	1.455	1.481	1.528	1.450	1.443	1.531	1.481	2.66
8)	T	Bromomethane	1.261	1.273	1.136	1.147	1.115	1.083	1.169	6.75
9)	T	Chloroethane	1.446	1.442	1.212	1.236	1.152	1.138	1.271	10.92
10)	T	Ethanol		1.203	0.969	0.986	0.929	0.925	1.003	11.48
11)	T	Acetonitrile	2.981	3.037	2.577	2.415	2.275	2.239	2.587	13.45
12)	T	Acrolein	0.902	0.874	0.876	0.804	0.753	0.731	0.823	8.66
13)	T	Acetone	1.744	1.398	1.165	1.048	1.015	1.007	1.229	23.74
14)	T	Trichlorofluorometh	4.242	4.048	3.611	3.518	3.248	3.072	3.623	12.46
15)	T	Isopropanol	5.540	4.876	4.051	4.592	3.647	3.159	4.311	20.07
16)	T	Acrylonitrile	2.111	1.967	1.843	1.777	1.707	1.668	1.845	9.09
17)	T	1,1-Dichloroethene	1.692	1.502	1.450	1.433	1.354	1.334	1.461	8.86
18)	T	tert-Butanol	4.659	4.276	2.954	2.506	1.709	0.938	2.840	50.75
19)	T	Methylene Chloride	1.999	1.776	1.557	1.504	1.389	1.370	1.599	15.29
20)	T	Allyl Chloride	2.154	2.003	2.007	2.208	2.150	2.128	2.108	4.00
21)	T	Trichlorotrifluoroe	1.544	1.463	1.321	1.263	1.211	1.118	1.320	12.04
22)	T	Carbon Disulfide	6.296	5.997	5.298	5.361	5.108	4.977	5.506	9.50
23)	T	trans-1,2-Dichloroe	3.674	3.168	2.843	2.925	2.719	2.661	2.998	12.54
24)	T	1,1-Dichloroethane	3.628	3.350	3.167	3.203	3.042	2.956	3.224	7.43
25)	T	Methyl tert-Butyl E	5.872	5.591	5.113	5.269	4.704	4.018	5.095	13.00
26)	T	Vinyl Acetate	0.276	0.299	0.351	0.384	0.368	0.352	0.338	12.42
27)	T	2-Butanone	1.218	1.166	1.058	1.033	0.967	0.928	1.062	10.56
28)	T	cis-1,2-Dichloroeth	3.264	3.103	2.851	2.765	2.602	2.535	2.853	9.95
29)	T	Diisopropyl Ether	1.703	1.554	1.458	1.425	1.402	1.447	1.498	7.54
30)	T	Ethyl Acetate	0.719	0.567	0.551	0.553	0.538	0.551	0.580	11.89
31)	T	n-Hexane	3.263	3.119	2.633	2.512	2.538	2.692	2.793	11.40
32)	T	Chloroform	3.893	3.548	3.092	3.030	2.767	2.661	3.165	14.91
33)	S	1,2-Dichloroethane-	3.243	3.281	3.229	3.201	3.056	2.978	3.165	3.79
34)	T	Tetrahydrofuran	1.229	1.182	1.132	1.146	1.071	0.940	1.117	9.04
35)	T	Ethyl tert-Butyl Et	2.148	2.199	2.222	2.220	2.134	2.086	2.168	2.51
36)	T	1,2-Dichloroethane	4.452	4.225	3.871	3.781	3.502	3.243	3.846	11.62
37)	IR	1,4-Difluorobenzene (	----------ISTD----------							
38)	T	1,1,1-Trichloroetha	0.830	0.761	0.690	0.712	0.661	0.615	0.711	10.67
39)	T	Isopropyl Acetate	0.204	0.187	0.192	0.198	0.201	0.195	0.196	3.15
40)	T	1-Butanol	0.261	0.278	0.286	0.283	0.279	0.274	0.277	3.22
41)	T	Benzene	1.540	1.401	1.264	1.246	1.194	1.152	1.299	11.16
42)	T	Carbon Tetrachlorid	0.432	0.484	0.492	0.538	0.524	0.482	0.492	7.55

(#) = Out of Range

Response Factor Report MSD3

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Initial Calibration

Calibration Files
0.5 =08100709.D 1 =08100710.D 5 =08100711.D
25 =08100712.D 50 =08100713.D 100 =08100714.D

		Compound	0.5	1	5	25	50	100	Avg	%RSD
43)	T	Cyclohexane	0.693	0.582	0.541	0.534	0.517	0.496	0.560	12.68
44)	T	tert-Amyl Methyl Et	1.099	1.067	1.057	1.056	1.014	0.987	1.047	3.81
45)	T	1,2-Dichloropropane	0.395	0.358	0.322	0.320	0.303	0.299	0.333	11.05
46)	T	Bromodichloromethan	0.545	0.521	0.516	0.528	0.503	0.474	0.515	4.71
47)	T	Trichloroethene	0.373	0.372	0.318	0.316	0.302	0.291	0.329	10.71
48)	T	1,4-Dioxane	0.272	0.262	0.253	0.249	0.241	0.231	0.251	5.84
49)	T	Isooctane	1.647	1.432	1.298	1.296	1.304	1.320	1.383	10.08
50)	T	Methyl Methacrylate	0.141	0.142	0.148	0.151	0.147	0.141	0.145	3.00
51)	T	n-Heptane	0.412	0.380	0.346	0.341	0.340	0.346	0.361	8.15
52)	T	cis-1,3-Dichloropro	0.626	0.588	0.593	0.624	0.599	0.575	0.601	3.34
53)	T	4-Methyl-2-Pentanon	0.308	0.294	0.309	0.311	0.306	0.300	0.305	2.20
54)	T	trans-1,3-Dichlorop	0.602	0.575	0.602	0.619	0.591	0.560	0.591	3.60
55)	T	1,1,2-Trichloroetha	0.329	0.312	0.305	0.307	0.295	0.285	0.305	4.92
56)	IR	Chlorobenzene-d5 (IS3	----------ISTD----------							
57)	S	Toluene-d8 (SS2)	1.729	1.729	1.708	1.726	1.722	1.735	1.725	0.53
58)	T	Toluene	2.560	2.389	2.141	2.168	2.114	2.102	2.245	8.31
59)	T	2-Hexanone	1.300	1.298	1.269	1.260	1.230	1.218	1.262	2.70
60)	T	Dibromochloromethan	0.496	0.461	0.488	0.537	0.529	0.518	0.505	5.67
61)	T	1,2-Dibromoethane	0.544	0.515	0.496	0.530	0.510	0.497	0.515	3.68
62)	T	Butyl Acetate	1.429	1.338	1.309	1.328	1.327	1.319	1.342	3.28
63)	T	n-Octane	0.490	0.497	0.450	0.477	0.479	0.492	0.481	3.53
64)	T	Tetrachloroethene	0.599	0.594	0.516	0.516	0.504	0.493	0.537	8.73
65)	T	Chlorobenzene	1.600	1.456	1.320	1.333	1.300	1.276	1.381	8.99
66)	T	Ethylbenzene	3.062	2.885	2.711	2.720	2.651	2.569	2.766	6.45
67)	T	m- & p-Xylene	2.053	1.959	1.838	1.882	1.807	1.746	1.881	5.88
68)	T	Bromoform	0.271	0.244	0.283	0.331	0.330	0.329	0.298	12.43
69)	T	Styrene	1.520	1.455	1.415	1.477	1.444	1.434	1.457	2.54
70)	T	o-Xylene	2.313	2.130	1.991	2.028	1.945	1.902	2.051	7.30
71)	T	n-Nonane	1.185	1.135	1.060	1.092	1.090	1.107	1.112	3.90
72)	T	1,1,2,2-Tetrachloro	0.746	0.790	0.722	0.757	0.750	0.756	0.754	2.89
73)	S	Bromofluorobenzene	0.515	0.523	0.515	0.522	0.523	0.515	0.519	0.83
74)	T	Cumene	2.986	2.774	2.560	2.639	2.535	2.452	2.658	7.31
75)	T	alpha-Pinene	1.470	1.336	1.347	1.405	1.380	1.356	1.382	3.58
76)	T	n-Propylbenzene	3.592	3.369	3.151	3.220	3.126	2.976	3.239	6.65
77)	T	3-Ethyltoluene	3.023	2.935	2.746	2.804	2.708	2.597	2.802	5.53
78)	T	4-Ethyltoluene	2.920	2.739	2.529	2.618	2.529	2.466	2.634	6.43
79)	T	1,3,5-Trimethylbenz	2.761	2.517	2.377	2.397	2.314	2.247	2.435	7.53
80)	T	alpha-Methylstyrene	1.006	1.016	1.043	1.081	1.064	1.064	1.046	2.81
81)	T	2-Ethyltoluene	3.181	3.056	2.821	2.860	2.771	2.676	2.894	6.51
82)	T	1,2,4-Trimethylbenz	2.605	2.621	2.369	2.435	2.384	2.298	2.452	5.39
83)	T	n-Decane	1.360	1.241	1.170	1.206	1.203	1.231	1.235	5.32
84)	T	Benzyl Chloride	1.764	1.824	1.991	2.175	2.142	2.103	2.000	8.60
85)	T	1,3-Dichlorobenzene	1.223	1.189	1.103	1.130	1.098	1.095	1.140	4.74

(#) = Out of Range

Response Factor Report MSD3

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Initial Calibration

Calibration Files
0.5 =08100709.D 1 =08100710.D 5 =08100711.D
25 =08100712.D 50 =08100713.D 100 =08100714.D

		Compound	0.5	1	5	25	50	100	Avg	%RSD
86)	T	1,4-Dichlorobenzene	1.286	1.180	1.050	1.093	1.079	1.069	1.126	8.02
87)	T	sec-Butylbenzene	3.353	3.111	2.899	2.943	2.858	2.766	2.988	7.09
88)	T	p-Isopropyltoluene	2.913	2.814	2.562	2.641	2.570	2.453	2.659	6.49
89)	T	1,2,3-Trimethylbenz	2.544	2.452	2.306	2.372	2.291	2.218	2.364	5.01
90)	T	1,2-Dichlorobenzene	1.172	1.132	1.036	1.072	1.062	1.054	1.088	4.85
91)	T	d-Limonene	0.978	0.904	0.925	0.984	0.999	1.015	0.967	4.51
92)	T	1,2-Dibromo-3-Chlor	0.307	0.304	0.338	0.373	0.363	0.359	0.341	8.67
93)	T	n-Undecane	0.093	0.071	0.062	0.070	0.070	0.069	0.072	14.47
94)	T	1,2,4-Trichlorobenz	0.234	0.243	0.224	0.232	0.226	0.225	0.230	3.12
95)	T	Naphthalene	2.569	2.611	2.600	2.606	2.556	2.502	2.574	1.61
96)	T	n-Dodecane	1.019	1.029	1.013	0.989	0.991	1.006	1.008	1.58
97)	T	Hexachloro-1,3-buta	0.492	0.450	0.437	0.444	0.430	0.426	0.446	5.38

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\10\09100707.D
Acq On : 10 Sep 2007 10:14
Sample : 25ng TO-15 CCV Standard
Misc : S15-09090701/S15-08280706
MS Integration Params: rteint.p

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	89	0.00
2	T	Propene	1.325	1.204	9.1	87	0.00
3	T	Dichlorodifluoromethane	4.254	4.442	-4.4	99	0.00
4	T	Chloromethane	1.968	2.061	-4.7	93	-0.01
5	T	Freon 114	1.135	1.272	-12.1	105	0.00
6	T	Vinyl Chloride	2.430	2.497	-2.8	94	-0.01
7	T	1,3-Butadiene	1.481	1.515	-2.3	93	0.00
8	T	Bromomethane	1.169	1.186	-1.5	92	0.00
9	T	Chloroethane	1.271	1.224	3.7	88	0.00
10	T	Ethanol	1.003	1.007	-0.4	91	-0.02
11	T	Acetonitrile	2.587	2.417	6.6	89	-0.01
12	T	Acrolein	0.823	0.813	1.2	90	0.00
13	T	Acetone	1.229	1.073	12.7	91	0.00
14	T	Trichlorofluoromethane	3.623	4.112	-13.5	104	0.00
15	T	Isopropanol	4.311	4.966	-15.2	96	-0.01
16	T	Acrylonitrile	1.845	1.823	1.2	91	0.00
17	T	1,1-Dichloroethene	1.461	1.518	-3.9	94	0.00
~~18~~	~~T~~	~~tert-Butanol~~	~~2.840~~	~~3.096~~	~~-9.0~~	~~110~~	~~0.01~~
19	T	Methylene Chloride	1.599	1.531	4.3	91	0.00
20	T	Allyl Chloride	2.108	2.288	-8.5	92	0.00
21	T	Trichlorotrifluoroethane	1.320	1.349	-2.2	95	0.00
22	T	Carbon Disulfide	5.506	5.609	-1.9	93	0.00
23	T	trans-1,2-Dichloroethene	2.998	3.094	-3.2	94	0.00
24	T	1,1-Dichloroethane	3.224	3.421	-6.1	95	0.00
25	T	Methyl tert-Butyl Ether	5.095	5.936	-16.5	100	0.00
26	T	Vinyl Acetate	0.338	0.391	-15.7	91	0.00
27	T	2-Butanone	1.062	1.077	-1.4	93	0.00
28	T	cis-1,2-Dichloroethene	2.853	2.952	-3.5	95	0.00
29	T	Diisopropyl Ether	1.498	1.511	-0.9	94	0.00
30	T	Ethyl Acetate	0.580	0.532	8.3	86	0.00
31	T	n-Hexane	2.793	2.626	6.0	93	0.00
32	T	Chloroform	3.165	3.306	-4.5	97	0.00
33	S	1,2-Dichloroethane-d4 (SS1)	3.165	3.442	-8.8	96	0.00
34	T	Tetrahydrofuran	1.117	1.181	-5.7	92	0.00
35	T	Ethyl tert-Butyl Ether	2.168	2.387	-10.1	96	0.00
36	T	1,2-Dichloroethane	3.846	4.242	-10.3	100	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	95	0.00
38	T	1,1,1-Trichloroethane	0.711	0.740	-4.1	98	0.00
39	T	Isopropyl Acetate	0.196	0.199	-1.5	95	0.00
40	T	1-Butanol	0.277	0.293	-5.8	98	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\10\09100707.D
Acq On : 10 Sep 2007 10:14
Sample : 25ng TO-15 CCV Standard
Misc F09/13/07 S20 : S15-09090701/S15-08280706
MS Integration Params: rteint.p

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.299	1.221	6.0	93	0.00
42	T	Carbon Tetrachloride	0.492	0.591	-20.1	104	0.00
43	T	Cyclohexane	0.560	0.524	6.4	93	0.00
44	T	tert-Amyl Methyl Ether	1.047	1.058	-1.1	95	0.00
45	T	1,2-Dichloropropane	0.333	0.307	7.8	91	0.00
46	T	Bromodichloromethane	0.515	0.554	-7.6	99	0.00
47	T	Trichloroethene	0.329	0.318	3.3	95	0.00
48	T	1,4-Dioxane	0.251	0.245	2.4	93	0.00
49	T	Isooctane	1.383	1.287	6.9	94	0.00
50	T	Methyl Methacrylate	0.145	0.150	-3.4	94	0.00
51	T	n-Heptane	0.361	0.331	8.3	92	0.00
52	T	cis-1,3-Dichloropropene	0.601	0.617	-2.7	93	0.00
53	T	4-Methyl-2-Pentanone	0.305	0.308	-1.0	93	0.00
54	T	trans-1,3-Dichloropropene	0.591	0.631	-6.8	96	0.00
55	T	1,1,2-Trichloroethane	0.305	0.298	2.3	92	0.00
56	IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	91	0.00
57	S	Toluene-d8 (SS2)	1.725	1.838	-6.6	97	0.00
58	T	Toluene	2.245	2.207	1.7	93	0.00
59	T	2-Hexanone	1.262	1.346	-6.7	97	0.00
60	T	Dibromochloromethane	0.505	0.591	-17.0	100	0.00
61	T	1,2-Dibromoethane	0.515	0.547	-6.2	94	0.00
62	T	Butyl Acetate	1.342	1.421	-5.9	97	0.00
63	T	n-Octane	0.481	0.486	-1.0	93	0.00
64	T	Tetrachloroethene	0.537	0.548	-2.0	97	0.00
65	T	Chlorobenzene	1.381	1.378	0.2	94	0.00
66	T	Ethylbenzene	2.766	2.825	-2.1	95	0.00
67	T	m- & p-Xylene	1.881	1.949	-3.6	94	0.00
68	T	Bromoform	0.298	0.361	-21.1	100	0.00
69	T	Styrene	1.457	1.523	-4.5	94	0.00
70	T	o-Xylene	2.051	2.090	-1.9	94	0.00
71	T	n-Nonane	1.112	1.112	0.0	93	0.00
72	T	1,1,2,2-Tetrachloroethane	0.754	0.751	0.4	90	0.00
73	S	Bromofluorobenzene (SS3)	0.519	0.531	-2.3	93	0.00
74	T	Cumene	2.658	2.743	-3.2	95	0.00
75	T	alpha-Pinene	1.382	1.478	-6.9	96	0.00
76	T	n-Propylbenzene	3.239	3.342	-3.2	95	0.00
77	T	3-Ethyltoluene	2.802	2.940	-4.9	96	0.00
78	T	4-Ethyltoluene	2.634	2.668	-1.3	93	0.00
79	T	1,3,5-Trimethylbenzene	2.435	2.501	-2.7	95	0.00
80	T	alpha-Methylstyrene	1.046	1.146	-9.6	97	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\10\09100707.D
Acq On : 10 Sep 2007 10:14
Sample : 25ng TO-15 CCV Standard
Misc: S15-09090701/S15-08280706
MS Integration Params: rteint.p

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	2-Ethyltoluene	2.894	2.937	-1.5	94	-0.01
82	T	1,2,4-Trimethylbenzene	2.452	2.555	-4.2	96	0.00
83	T	n-Decane	1.235	1.210	2.0	91	0.00
84	T	Benzyl Chloride	2.000	2.221	-11.1	93	0.00
85	T	1,3-Dichlorobenzene	1.140	1.168	-2.5	94	0.00
86	T	1,4-Dichlorobenzene	1.126	1.126	0.0	94	0.00
87	T	sec-Butylbenzene	2.988	3.059	-2.4	95	0.00
88	T	p-Isopropyltoluene	2.659	2.763	-3.9	95	0.00
89	T	1,2,3-Trimethylbenzene	2.364	2.459	-4.0	94	0.00
90	T	1,2-Dichlorobenzene	1.088	1.093	-0.5	93	0.00
91	T	d-Limonene	0.967	1.016	-5.1	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.341	0.381	-11.7	93	-0.01
93	T	n-Undecane	0.072	0.069	4.2	90	0.00
94	T	1,2,4-Trichlorobenzene	0.230	0.230	0.0	91	0.00
95	T	Naphthalene	2.574	2.594	-0.8	91	0.00
96	T	n-Dodecane	1.008	0.992	1.6	91	0.00
97	T	Hexachloro-1,3-butadiene	0.446	0.460	-3.1	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\10\09100710.D
Acq On : 10 Sep 2007 12:09
Sample : 1ng TO-15 CRQL Standard
Misc : S15-09090701/S15-08240711
MS Integration Params: rteint.p

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	93	-0.01
2	T	Propene	1.325	1.470	-10.9	101	0.02
3	T	Dichlorodifluoromethane	4.254	4.733	-11.3	90	0.02
4	T	Chloromethane	1.968	2.014	-2.3	81	0.03
5	T	Freon 114	1.135	1.439	-26.8	107	0.01
6	T	Vinyl Chloride	2.430	2.717	-11.8	94	0.02
7	T	1,3-Butadiene	1.481	1.476	0.3	93	0.01
8	T	Bromomethane	1.169	1.197	-2.4	87	0.02
9	T	Chloroethane	1.271	1.312	-3.2	85	0.01
10	T	Ethanol	1.003	1.252	-24.8	97	0.00
11	T	Acetonitrile	2.587	1.584	38.8#	48#	0.02
12	T	Acrolein	0.823	0.752	8.6	80	0.00
13	T	Acetone	1.229	1.558	-26.8	104	0.00
14	T	Trichlorofluoromethane	3.623	4.240	-17.0	97	0.00
15	T	Isopropanol	4.311	5.395	-25.1	103	-0.02
16	T	Acrylonitrile	1.845	1.315	28.7	62	0.00
17	T	1,1-Dichloroethene	1.461	1.526	-4.4	94	0.02
~~18~~	~~T~~	~~tert-Butanol~~	~~2.840~~	~~1.791~~	~~36.9#~~	~~39#~~	~~-0.02~~
19	T	Methylene Chloride	1.599	1.584	0.9	83	0.00
20	T	Allyl Chloride	2.108	1.925	8.7	89	0.00
21	T	Trichlorotrifluoroethane	1.320	1.564	-18.5	99	0.00
22	T	Carbon Disulfide	5.506	5.698	-3.5	88	0.01
23	T	trans-1,2-Dichloroethene	2.998	2.995	0.1	88	0.00
24	T	1,1-Dichloroethane	3.224	3.423	-6.2	95	0.00
25	T	Methyl tert-Butyl Ether	5.095	5.949	-16.8	99	0.00
26	T	Vinyl Acetate	0.338	0.253	25.1	79	-0.01
27	T	2-Butanone	1.062	1.077	-1.4	86	0.00
28	T	cis-1,2-Dichloroethene	2.853	3.182	-11.5	95	-0.01
29	T	Diisopropyl Ether	1.498	1.540	-2.8	92	0.00
30	T	Ethyl Acetate	0.580	0.603	-4.0	99	-0.02
31	T	n-Hexane	2.793	2.931	-4.9	87	0.00
32	T	Chloroform	3.165	3.571	-12.8	94	-0.01
33	S	1,2-Dichloroethane-d4 (SS1)	3.165	3.431	-8.4	97	-0.02
34	T	Tetrahydrofuran	1.117	1.175	-5.2	92	0.00
35	T	Ethyl tert-Butyl Ether	2.168	2.235	-3.1	94	0.00
36	T	1,2-Dichloroethane	3.846	4.388	-14.1	97	-0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	96	-0.01
38	T	1,1,1-Trichloroethane	0.711	0.783	-10.1	99	-0.01
39	T	Isopropyl Acetate	0.196	0.205	-4.6	105	-0.01
40	T	1-Butanol	0.277	0.197	28.9	68	0.00

(#) = Out of Range

09/10/07

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\10\09100710.D
Acq On : 10 Sep 2007 12:09
Sample : 1ng TO-15 CRQL Standard
Misc B09/13/07 S20 : S15-09090701/S15-08240711
MS Integration Params: rteint.p

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.299	1.407	-8.3	97	-0.01
42	T	Carbon Tetrachloride	0.492	0.506	-2.8	101	-0.01
43	T	Cyclohexane	0.560	0.573	-2.3	95	0.00
44	T	tert-Amyl Methyl Ether	1.047	1.034	1.2	93	0.00
45	T	1,2-Dichloropropane	0.333	0.310	6.9	83	-0.01
46	T	Bromodichloromethane	0.515	0.523	-1.6	96	0.00
47	T	Trichloroethene	0.329	0.325	1.2	84	-0.01
48	T	1,4-Dioxane	0.251	0.254	-1.2	93	0.00
49	T	Isooctane	1.383	1.399	-1.2	94	-0.01
50	T	Methyl Methacrylate	0.145	0.149	-2.8	101	0.00
51	T	n-Heptane	0.361	0.354	1.9	90	0.00
52	T	cis-1,3-Dichloropropene	0.601	0.610	-1.5	100	0.00
53	T	4-Methyl-2-Pentanone	0.305	0.321	-5.2	105	-0.01
54	T	trans-1,3-Dichloropropene	0.591	0.603	-2.0	101	-0.01
55	T	1,1,2-Trichloroethane	0.305	0.311	-2.0	96	0.00
56	IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	94	0.00
57	S	Toluene-d8 (SS2)	1.725	1.858	-7.7	101	0.00
58	T	Toluene	2.245	2.315	-3.1	91	0.00
59	T	2-Hexanone	1.262	1.325	-5.0	96	0.00
60	T	Dibromochloromethane	0.505	0.556	-10.1	113	-0.01
61	T	1,2-Dibromoethane	0.515	0.528	-2.5	96	0.00
62	T	Butyl Acetate	1.342	1.358	-1.2	95	0.00
63	T	n-Octane	0.481	0.477	0.8	90	0.00
64	T	Tetrachloroethene	0.537	0.574	-6.9	90	-0.01
65	T	Chlorobenzene	1.381	1.463	-5.9	94	0.00
66	T	Ethylbenzene	2.766	2.914	-5.4	95	0.00
67	T	m- & p-Xylene	1.881	2.025	-7.7	97	-0.02
68	T	Bromoform	0.298	0.295	1.0	113	-0.01
69	T	Styrene	1.457	1.435	1.5	92	0.00
70	T	o-Xylene	2.051	2.228	-8.6	98	0.00
71	T	n-Nonane	1.112	1.131	-1.7	93	0.00
72	T	1,1,2,2-Tetrachloroethane	0.754	0.747	0.9	89	0.00
73	S	Bromofluorobenzene (SS3)	0.519	0.535	-3.1	96	0.00
74	T	Cumene	2.658	2.715	-2.1	92	0.00
75	T	alpha-Pinene	1.382	1.329	3.8	93	0.00
76	T	n-Propylbenzene	3.239	3.313	-2.3	92	0.00
77	T	3-Ethyltoluene	2.802	2.926	-4.4	93	0.00
78	T	4-Ethyltoluene	2.634	2.732	-3.7	93	0.00
79	T	1,3,5-Trimethylbenzene	2.435	2.594	-6.5	97	-0.01
80	T	alpha-Methylstyrene	1.046	0.916	12.4	84	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\10\09100710.D
Acq On : 10 Sep 2007 12:09
Sample : 1ng TO-15 CRQL Standard
Misc 09/13/07 : ~~S15~~ 320-09090701/S15-08240711
MS Integration Params: rteint.p

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	2-Ethyltoluene	2.894	3.028	-4.6	93	-0.01
82	T	1,2,4-Trimethylbenzene	2.452	2.597	-5.9	93	0.00
83	T	n-Decane	1.235	1.245	-0.8	94	0.00
84	T	Benzyl Chloride	2.000	1.791	10.5	92	0.00
85	T	1,3-Dichlorobenzene	1.140	1.240	-8.8	98	-0.01
86	T	1,4-Dichlorobenzene	1.126	1.161	-3.1	92	0.00
87	T	sec-Butylbenzene	2.988	3.067	-2.6	92	0.00
88	T	p-Isopropyltoluene	2.659	2.685	-1.0	89	-0.01
89	T	1,2,3-Trimethylbenzene	2.364	2.461	-4.1	94	-0.01
90	T	1,2-Dichlorobenzene	1.088	1.161	-6.7	96	0.00
91	T	d-Limonene	0.967	0.830	14.2	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.341	0.309	9.4	95	0.00
93	T	n-Undecane	0.072	0.051	29.2	68	0.00
94	T	1,2,4-Trichlorobenzene	0.230	0.217	5.7	84	0.00
95	T	Naphthalene	2.574	2.698	-4.8	97	0.00
96	T	n-Dodecane	1.008	1.011	-0.3	92	0.00
97	T	Hexachloro-1,3-butadiene	0.446	0.512	-14.8	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
09100710.D R3081007.M Mon Sep 10 12:37:55 2007 09/10/07

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\10\09100716.D
Acq On : 10 Sep 2007 15:50
Sample : 25ng TO-15 CCV Standard
Misc F09/13/07 : ~~S15~~ S20-09090701/S15-08280705
MS Integration Params: rteint.p

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	103	0.00
2	T	Propene	1.325	1.245	6.0	104	0.00
3	T	Dichlorodifluoromethane	4.254	4.089	3.9	105	0.00
4	T	Chloromethane	1.968	2.056	-4.5	106	0.00
5	T	Freon 114	1.135	1.186	-4.5	113	0.00
6	T	Vinyl Chloride	2.430	2.411	0.8	104	0.00
7	T	1,3-Butadiene	1.481	1.537	-3.8	109	0.00
8	T	Bromomethane	1.169	1.162	0.6	104	0.00
9	T	Chloroethane	1.271	1.252	1.5	104	0.00
10	T	Ethanol	1.003	0.946	5.7	98	0.00
11	T	Acetonitrile	2.587	2.469	4.6	105	0.00
12	T	Acrolein	0.823	0.836	-1.6	107	0.00
13	T	Acetone	1.229	1.145	6.8	112	0.00
14	T	Trichlorofluoromethane	3.623	3.770	-4.1	110	0.00
15	T	Isopropanol	4.311	4.982	-15.6	111	-0.01
16	T	Acrylonitrile	1.845	1.826	1.0	105	0.00
17	T	1,1-Dichloroethene	1.461	1.477	-1.1	106	0.00
~~18~~	~~T~~	~~tert-Butanol~~	~~2.840~~	~~3.192~~	~~-12.4~~	~~131~~	~~0.00~~
19	T	Methylene Chloride	1.599	1.526	4.6	104	0.00
20	T	Allyl Chloride	2.108	2.268	-7.6	105	0.00
21	T	Trichlorotrifluoroethane	1.320	1.300	1.5	106	0.00
22	T	Carbon Disulfide	5.506	5.579	-1.3	107	-0.01
23	T	trans-1,2-Dichloroethene	2.998	2.990	0.3	105	0.00
24	T	1,1-Dichloroethane	3.224	3.319	-2.9	106	0.00
25	T	Methyl tert-Butyl Ether	5.095	5.846	-14.7	114	0.00
26	T	Vinyl Acetate	0.338	0.400	-18.3	107	0.00
27	T	2-Butanone	1.062	1.070	-0.8	106	-0.01
28	T	cis-1,2-Dichloroethene	2.853	2.828	0.9	105	0.00
29	T	Diisopropyl Ether	1.498	1.501	-0.2	108	0.00
30	T	Ethyl Acetate	0.580	0.565	2.6	105	0.00
31	T	n-Hexane	2.793	2.665	4.6	109	0.00
32	T	Chloroform	3.165	3.123	1.3	106	0.00
33	S	1,2-Dichloroethane-d4 (SS1)	3.165	3.141	0.8	101	0.00
34	T	Tetrahydrofuran	1.117	1.175	-5.2	105	0.00
35	T	Ethyl tert-Butyl Ether	2.168	2.357	-8.7	109	0.00
36	T	1,2-Dichloroethane	3.846	3.921	-2.0	106	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	105	0.00
38	T	1,1,1-Trichloroethane	0.711	0.702	1.3	104	0.00
39	T	Isopropyl Acetate	0.196	0.208	-6.1	110	0.00
40	T	1-Butanol	0.277	0.312	-12.6	116	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\10\09100716.D
Acq On : 10 Sep 2007 15:50
Sample : 25ng TO-15 CCV Standard
Misc B 09/13/07 : S20 ~~S15~~-09090701/S15-08280705
MS Integration Params: rteint.p

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.299	1.260	3.0	106	0.00
42	T	Carbon Tetrachloride	0.492	0.554	-12.6	108	0.00
43	T	Cyclohexane	0.560	0.538	3.9	106	0.00
44	T	tert-Amyl Methyl Ether	1.047	1.098	-4.9	109	0.00
45	T	1,2-Dichloropropane	0.333	0.320	3.9	105	0.00
46	T	Bromodichloromethane	0.515	0.539	-4.7	107	0.00
47	T	Trichloroethene	0.329	0.318	3.3	106	0.00
48	T	1,4-Dioxane	0.251	0.257	-2.4	108	-0.01
49	T	Isooctane	1.383	1.358	1.8	110	0.00
50	T	Methyl Methacrylate	0.145	0.150	-3.4	104	0.00
51	T	n-Heptane	0.361	0.353	2.2	109	0.00
52	T	cis-1,3-Dichloropropene	0.601	0.624	-3.8	105	0.00
53	T	4-Methyl-2-Pentanone	0.305	0.322	-5.6	109	0.00
54	T	trans-1,3-Dichloropropene	0.591	0.617	-4.4	105	0.00
55	T	1,1,2-Trichloroethane	0.305	0.308	-1.0	105	0.00
56	IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	101	0.00
57	S	Toluene-d8 (SS2)	1.725	1.847	-7.1	108	0.00
58	T	Toluene	2.245	2.264	-0.8	106	0.00
59	T	2-Hexanone	1.262	1.381	-9.4	111	-0.01
60	T	Dibromochloromethane	0.505	0.586	-16.0	110	0.00
61	T	1,2-Dibromoethane	0.515	0.550	-6.8	105	0.00
62	T	Butyl Acetate	1.342	1.465	-9.2	112	0.00
63	T	n-Octane	0.481	0.504	-4.8	107	0.00
64	T	Tetrachloroethene	0.537	0.536	0.2	105	0.00
65	T	Chlorobenzene	1.381	1.382	-0.1	105	0.00
66	T	Ethylbenzene	2.766	2.838	-2.6	106	0.00
67	T	m- & p-Xylene	1.881	1.945	-3.4	105	-0.01
68	T	Bromoform	0.298	0.366	-22.8	112	0.00
69	T	Styrene	1.457	1.547	-6.2	106	0.00
70	T	o-Xylene	2.051	2.083	-1.6	104	0.00
71	T	n-Nonane	1.112	1.150	-3.4	107	0.00
72	T	1,1,2,2-Tetrachloroethane	0.754	0.789	-4.6	105	-0.01
73	S	Bromofluorobenzene (SS3)	0.519	0.533	-2.7	103	0.00
74	T	Cumene	2.658	2.737	-3.0	105	0.00
75	T	alpha-Pinene	1.382	1.456	-5.4	105	0.00
76	T	n-Propylbenzene	3.239	3.346	-3.3	105	0.00
77	T	3-Ethyltoluene	2.802	2.963	-5.7	107	0.00
78	T	4-Ethyltoluene	2.634	2.640	-0.2	102	0.00
79	T	1,3,5-Trimethylbenzene	2.435	2.496	-2.5	105	0.00
80	T	alpha-Methylstyrene	1.046	1.143	-9.3	107	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\10\09100716.D
Acq On : 10 Sep 2007 15:50
Sample : 25ng TO-15 CCV Standard
Misc B 09/13/07 : ~~S15~~ S20-09090701/S15-08280705
MS Integration Params: rteint.p

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	2-Ethyltoluene	2.894	2.962	-2.3	105	0.00
82	T	1,2,4-Trimethylbenzene	2.452	2.521	-2.8	105	0.00
83	T	n-Decane	1.235	1.260	-2.0	106	0.00
84	T	Benzyl Chloride	2.000	2.272	-13.6	106	0.00
85	T	1,3-Dichlorobenzene	1.140	1.169	-2.5	105	0.00
86	T	1,4-Dichlorobenzene	1.126	1.135	-0.8	105	0.00
87	T	sec-Butylbenzene	2.988	3.087	-3.3	106	0.00
88	T	p-Isopropyltoluene	2.659	2.753	-3.5	106	0.00
89	T	1,2,3-Trimethylbenzene	2.364	2.472	-4.6	106	0.00
90	T	1,2-Dichlorobenzene	1.088	1.117	-2.7	106	0.00
91	T	d-Limonene	0.967	1.047	-8.3	108	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.341	0.386	-13.2	105	0.00
93	T	n-Undecane	0.072	0.072	0.0	105	0.00
94	T	1,2,4-Trichlorobenzene	0.230	0.232	-0.9	101	0.00
95	T	Naphthalene	2.574	2.699	-4.9	105	0.00
96	T	n-Dodecane	1.008	1.045	-3.7	107	0.00
97	T	Hexachloro-1,3-butadiene	0.446	0.469	-5.2	107	0.00

B 09/10/07

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\13\09130701.D Vial: 3
Acq On : 13 Sep 2007 8:10 Operator: RTB
Sample : 25ng TO-15 CCV Standard Inst : MSD3
Misc 09/13/07: ~~S15~~ S20-09090701/S15-08280706 Multiplr: 1.00
MS Integration Params: events.e

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	98	0.00
2	T	Propene	1.325	1.301	1.8	103	0.00
3	T	Dichlorodifluoromethane	4.254	4.157	2.3	102	0.00
4	T	Chloromethane	1.968	2.136	-8.5	105	-0.01
5	T	Freon 114	1.135	1.216	-7.1	111	0.00
6	T	Vinyl Chloride	2.430	2.510	-3.3	104	0.00
7	T	1,3-Butadiene	1.481	1.553	-4.9	105	0.00
8	T	Bromomethane	1.169	1.182	-1.1	101	0.00
9	T	Chloroethane	1.271	1.289	-1.4	102	0.00
10	T	Ethanol	1.003	1.034	-3.1	103	-0.01
11	T	Acetonitrile	2.587	2.626	-1.5	106	-0.01
12	T	Acrolein	0.823	0.866	-5.2	105	0.00
13	T	Acetone	1.229	1.148	6.6	107	0.00
14	T	Trichlorofluoromethane	3.623	3.807	-5.1	106	-0.01
15	T	Isopropanol	4.311	4.972	-15.3	106	-0.01
16	T	Acrylonitrile	1.845	1.908	-3.4	105	-0.01
17	T	1,1-Dichloroethene	1.461	1.515	-3.7	103	0.00
~~18~~	~~T~~	~~tert-Butanol~~	~~2.840~~	~~3.039~~	~~-7.0~~	~~119~~	~~0.00~~
19	T	Methylene Chloride	1.599	1.579	1.3	103	0.00
20	T	Allyl Chloride	2.108	2.377	-12.8	105	0.00
21	T	Trichlorotrifluoroethane	1.320	1.347	-2.0	104	0.00
22	T	Carbon Disulfide	5.506	5.757	-4.6	105	0.00
23	T	trans-1,2-Dichloroethene	2.998	3.023	-0.8	101	0.00
24	T	1,1-Dichloroethane	3.224	3.392	-5.2	104	0.00
25	T	Methyl tert-Butyl Ether	5.095	5.849	-14.8	109	0.00
26	T	Vinyl Acetate	0.338	0.407	-20.4	104	0.00
27	T	2-Butanone	1.062	1.146	-7.9	108	-0.01
28	T	cis-1,2-Dichloroethene	2.853	2.910	-2.0	103	0.00
29	T	Diisopropyl Ether	1.498	1.533	-2.3	105	0.00
30	T	Ethyl Acetate	0.580	0.566	2.4	100	0.00
31	T	n-Hexane	2.793	2.805	-0.4	109	0.00
32	T	Chloroform	3.165	3.129	1.1	101	0.00
33	S	1,2-Dichloroethane-d4 (SS1)	3.165	3.145	0.6	96	0.00
34	T	Tetrahydrofuran	1.117	1.212	-8.5	103	-0.01
35	T	Ethyl tert-Butyl Ether	2.168	2.432	-12.2	107	0.00
36	T	1,2-Dichloroethane	3.846	3.898	-1.4	101	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	103	0.00
38	T	1,1,1-Trichloroethane	0.711	0.696	2.1	100	0.00
39	T	Isopropyl Acetate	0.196	0.205	-4.6	106	0.00
40	T	1-Butanol	0.277	0.305	-10.1	111	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\13\09130701.D Vial: 3
Acq On : 13 Sep 2007 8:10 Operator: RTB
Sample : 25ng TO-15 CCV Standard Inst : MSD3
Misc 09/13/07: ~~S15~~ S20-09090701/S15-08280706 Multiplr: 1.00
MS Integration Params: events.e

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.299	1.252	3.6	103	0.00
42	T	Carbon Tetrachloride	0.492	0.542	-10.2	104	0.00
43	T	Cyclohexane	0.560	0.534	4.6	103	0.00
44	T	tert-Amyl Methyl Ether	1.047	1.104	-5.4	107	0.00
45	T	1,2-Dichloropropane	0.333	0.320	3.9	103	-0.01
46	T	Bromodichloromethane	0.515	0.532	-3.3	103	0.00
47	T	Trichloroethene	0.329	0.315	4.3	102	0.00
48	T	1,4-Dioxane	0.251	0.252	-0.4	104	-0.01
49	T	Isooctane	1.383	1.357	1.9	108	0.00
50	T	Methyl Methacrylate	0.145	0.157	-8.3	106	0.00
51	T	n-Heptane	0.361	0.353	2.2	106	0.00
52	T	cis-1,3-Dichloropropene	0.601	0.618	-2.8	102	0.00
53	T	4-Methyl-2-Pentanone	0.305	0.319	-4.6	105	0.00
54	T	trans-1,3-Dichloropropene	0.591	0.613	-3.7	102	0.00
55	T	1,1,2-Trichloroethane	0.305	0.309	-1.3	103	0.00
56	IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	99	0.00
57	S	Toluene-d8 (SS2)	1.725	1.863	-8.0	107	0.00
58	T	Toluene	2.245	2.252	-0.3	103	0.00
59	T	2-Hexanone	1.262	1.372	-8.7	108	-0.01
60	T	Dibromochloromethane	0.505	0.570	-12.9	106	0.00
61	T	1,2-Dibromoethane	0.515	0.543	-5.4	102	0.00
62	T	Butyl Acetate	1.342	1.454	-8.3	109	0.00
63	T	n-Octane	0.481	0.501	-4.2	105	0.00
64	T	Tetrachloroethene	0.537	0.529	1.5	102	0.00
65	T	Chlorobenzene	1.381	1.371	0.7	102	0.00
66	T	Ethylbenzene	2.766	2.827	-2.2	103	0.00
67	T	m- & p-Xylene	1.881	1.921	-2.1	101	0.00
68	T	Bromoform	0.298	0.354	-18.8	107	0.00
69	T	Styrene	1.457	1.540	-5.7	104	0.00
70	T	o-Xylene	2.051	2.067	-0.8	101	0.00
71	T	n-Nonane	1.112	1.156	-4.0	105	0.00
72	T	1,1,2,2-Tetrachloroethane	0.754	0.781	-3.6	103	-0.01
73	S	Bromofluorobenzene (SS3)	0.519	0.523	-0.8	100	0.00
74	T	Cumene	2.658	2.712	-2.0	102	0.00
75	T	alpha-Pinene	1.382	1.467	-6.2	104	0.00
76	T	n-Propylbenzene	3.239	3.321	-2.5	103	0.00
77	T	3-Ethyltoluene	2.802	2.931	-4.6	104	0.00
78	T	4-Ethyltoluene	2.634	2.629	0.2	100	0.00
79	T	1,3,5-Trimethylbenzene	2.435	2.448	-0.5	102	0.00
80	T	alpha-Methylstyrene	1.046	1.130	-8.0	104	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\13\09130701.D
Acq On : 13 Sep 2007 8:10
Sample : 25ng TO-15 CCV Standard
Misc 09/13/07: S20 ~~S15~~-09090701/S15-08280706
MS Integration Params: events.e

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	2-Ethyltoluene	2.894	2.957	-2.2	103	0.00
82	T	1,2,4-Trimethylbenzene	2.452	2.516	-2.6	103	0.00
83	T	n-Decane	1.235	1.260	-2.0	104	0.00
84	T	Benzyl Chloride	2.000	2.246	-12.3	103	0.00
85	T	1,3-Dichlorobenzene	1.140	1.151	-1.0	101	0.00
86	T	1,4-Dichlorobenzene	1.126	1.125	0.1	102	-0.01
87	T	sec-Butylbenzene	2.988	3.053	-2.2	103	0.00
88	T	p-Isopropyltoluene	2.659	2.734	-2.8	103	0.00
89	T	1,2,3-Trimethylbenzene	2.364	2.438	-3.1	102	0.00
90	T	1,2-Dichlorobenzene	1.088	1.113	-2.3	103	0.00
91	T	d-Limonene	0.967	1.039	-7.4	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.341	0.384	-12.6	103	-0.01
93	T	n-Undecane	0.072	0.069	4.2	99	0.00
94	T	1,2,4-Trichlorobenzene	0.230	0.235	-2.2	101	0.00
95	T	Naphthalene	2.574	2.802	-8.9	107	0.00
96	T	n-Dodecane	1.008	1.106	-9.7	111	0.00
97	T	Hexachloro-1,3-butadiene	0.446	0.464	-4.0	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
09130701.D R3081007.M Thu Sep 13 10:12:21 2007 09/13/07

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\13\09130710.D Vial: 3
Acq On : 13 Sep 2007 16:42 Operator: RTB
Sample : 1ng TO-15 CRQL Standard Inst : MSD3
Misc : S20-09090701/S15-08240711 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	103	-0.02
2	T	Propene	1.325	1.383	-4.4	105	0.01
3	T	Dichlorodifluoromethane	4.254	5.055	-18.8	107	0.01
4	T	Chloromethane	1.968	2.153	-9.4	96	0.02
5	T	Freon 114	1.135	1.439	-26.8	119	0.00
6	T	Vinyl Chloride	2.430	2.634	-8.4	101	0.02
7	T	1,3-Butadiene	1.481	1.630	-10.1	113	0.00
8	T	Bromomethane	1.169	1.103	5.6	89	0.01
9	T	Chloroethane	1.271	1.438	-13.1	103	0.01
10	T	Ethanol	1.003	1.448	-44.4#	124	-0.01
11	T	Acetonitrile	2.587	3.140	-21.4	107	0.00
12	T	Acrolein	0.823	0.792	3.8	93	0.00
13	T	Acetone	1.229	1.885	-53.4#	139	-0.01
14	T	Trichlorofluoromethane	3.623	4.329	-19.5	110	0.00
15	T	Isopropanol	4.311	5.867	-36.1#	124	-0.03
16	T	Acrylonitrile	1.845	1.622	12.1	85	-0.02
17	T	1,1-Dichloroethene	1.461	1.660	-13.6	114	0.00
~~18~~	~~T~~	~~tert-Butanol~~	~~2.840~~	~~3.478~~	~~-22.5~~	~~84~~	~~-0.03~~
19	T	Methylene Chloride	1.599	1.722	-7.7	100	0.00
20	T	Allyl Chloride	2.108	2.196	-4.2	113	0.00
21	T	Trichlorotrifluoroethane	1.320	1.628	-23.3	115	-0.01
22	T	Carbon Disulfide	5.506	4.914	10.8	84	0.00
23	T	trans-1,2-Dichloroethene	2.998	3.067	-2.3	100	0.00
24	T	1,1-Dichloroethane	3.224	3.643	-13.0	112	-0.02
25	T	Methyl tert-Butyl Ether	5.095	6.969	-36.8#	128	0.00
26	T	Vinyl Acetate	0.338	0.308	8.9	106	-0.01
27	T	2-Butanone	1.062	1.266	-19.2	112	0.00
28	T	cis-1,2-Dichloroethene	2.853	3.199	-12.1	106	-0.02
29	T	Diisopropyl Ether	1.498	1.668	-11.3	111	-0.01
30	T	Ethyl Acetate	0.580	0.624	-7.6	113	-0.01
31	T	n-Hexane	2.793	3.172	-13.6	105	0.00
32	T	Chloroform	3.165	3.783	-19.5	110	-0.03
33	S	1,2-Dichloroethane-d4 (SS1)	3.165	3.198	-1.0	100	-0.02
34	T	Tetrahydrofuran	1.117	1.292	-15.7	113	0.00
35	T	Ethyl tert-Butyl Ether	2.168	2.805	-29.4	132	-0.02
36	T	1,2-Dichloroethane	3.846	4.401	-14.4	107	-0.03
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	106	-0.02
38	T	1,1,1-Trichloroethane	0.711	0.739	-3.9	103	-0.02
39	T	Isopropyl Acetate	0.196	0.212	-8.2	121	-0.01
40	T	1-Butanol	0.277	0.133	52.0#	51	0.00

(#) = Out of Range

09/13/07

64

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\13\09130710.D
Acq On : 13 Sep 2007 16:42
Sample : 1ng TO-15 CRQL Standard
Misc : S20-09090701/S15-08240711
MS Integration Params: rteint.p

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.299	1.413	-8.8	107	-0.02
42	T	Carbon Tetrachloride	0.492	0.500	-1.6	110	-0.01
43	T	Cyclohexane	0.560	0.637	-13.7	116	-0.02
44	T	tert-Amyl Methyl Ether	1.047	1.200	-14.6	120	-0.01
45	T	1,2-Dichloropropane	0.333	0.345	-3.6	103	-0.01
46	T	Bromodichloromethane	0.515	0.535	-3.9	109	-0.02
47	T	Trichloroethene	0.329	0.369	-12.2	105	-0.02
48	T	1,4-Dioxane	0.251	0.302	-20.3	122	-0.01
49	T	Isooctane	1.383	1.569	-13.4	117	-0.02
50	T	Methyl Methacrylate	0.145	0.168	-15.9	126	-0.02
51	T	n-Heptane	0.361	0.374	-3.6	105	-0.01
52	T	cis-1,3-Dichloropropene	0.601	0.613	-2.0	111	-0.01
53	T	4-Methyl-2-Pentanone	0.305	0.357	-17.0	129	0.00
54	T	trans-1,3-Dichloropropene	0.591	0.617	-4.4	114	-0.02
55	T	1,1,2-Trichloroethane	0.305	0.347	-13.8	118	-0.01
56	IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	103	-0.01
57	S	Toluene-d8 (SS2)	1.725	1.879	-8.9	112	-0.02
58	T	Toluene	2.245	2.561	-14.1	110	-0.01
59	T	2-Hexanone	1.262	1.508	-19.5	120	-0.01
60	T	Dibromochloromethane	0.505	0.519	-2.8	116	-0.02
61	T	1,2-Dibromoethane	0.515	0.558	-8.3	112	-0.01
62	T	Butyl Acetate	1.342	1.554	-15.8	120	-0.01
63	T	n-Octane	0.481	0.591	-22.9	123	0.00
64	T	Tetrachloroethene	0.537	0.615	-14.5	107	-0.02
65	T	Chlorobenzene	1.381	1.545	-11.9	109	0.00
66	T	Ethylbenzene	2.766	3.090	-11.7	110	0.00
67	T	m- & p-Xylene	1.881	2.065	-9.8	109	0.00
68	T	Bromoform	0.298	0.316	-6.0	133	-0.02
69	T	Styrene	1.457	1.586	-8.9	112	-0.01
70	T	o-Xylene	2.051	2.286	-11.5	111	-0.01
71	T	n-Nonane	1.112	1.295	-16.5	118	-0.01
72	T	1,1,2,2-Tetrachloroethane	0.754	0.807	-7.0	105	-0.01
73	S	Bromofluorobenzene (SS3)	0.519	0.532	-2.5	105	-0.01
74	T	Cumene	2.658	2.933	-10.3	109	-0.01
75	T	alpha-Pinene	1.382	1.465	-6.0	113	-0.01
76	T	n-Propylbenzene	3.239	3.722	-14.9	114	-0.01
77	T	3-Ethyltoluene	2.802	3.121	-11.4	110	-0.01
78	T	4-Ethyltoluene	2.634	2.960	-12.4	111	-0.01
79	T	1,3,5-Trimethylbenzene	2.435	2.751	-13.0	113	-0.01
80	T	alpha-Methylstyrene	1.046	1.049	-0.3	106	-0.01

(#) = Out of Range

09/15/07

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\13\09130710.D Vial: 3
Acq On : 13 Sep 2007 16:42 Operator: RTB
Sample : 1ng TO-15 CRQL Standard Inst : MSD3
Misc : S20-09090701/S15-08240711 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	2-Ethyltoluene	2.894	3.248	-12.2	110	-0.02
82	T	1,2,4-Trimethylbenzene	2.452	2.741	-11.8	108	-0.01
83	T	n-Decane	1.235	1.435	-16.2	119	-0.01
84	T	Benzyl Chloride	2.000	1.867	6.7	105	0.00
85	T	1,3-Dichlorobenzene	1.140	1.220	-7.0	106	-0.01
86	T	1,4-Dichlorobenzene	1.126	1.243	-10.4	109	0.00
87	T	sec-Butylbenzene	2.988	3.281	-9.8	109	-0.01
88	T	p-Isopropyltoluene	2.659	2.859	-7.5	105	0.00
89	T	1,2,3-Trimethylbenzene	2.364	2.599	-9.9	109	-0.01
90	T	1,2-Dichlorobenzene	1.088	1.230	-13.1	112	-0.01
91	T	d-Limonene	0.967	0.985	-1.9	112	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.341	0.350	-2.6	118	-0.01
93	T	n-Undecane	0.072	0.087	-20.8	126	0.00
94	T	1,2,4-Trichlorobenzene	0.230	0.258	-12.2	110	0.00
95	T	Naphthalene	2.574	2.806	-9.0	111	0.00
96	T	n-Dodecane	1.008	1.233	-22.3	123	0.00
97	T	Hexachloro-1,3-butadiene	0.446	0.501	-12.3	115	0.00

09/13/07

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\13\09130714.D Vial: 3
Acq On : 13 Sep 2007 19:08 Operator: RTB
Sample : 25ng TO-15 CCV Standard Inst : MSD3
Misc : S20-09090701/S15-08280706 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	102	0.00
2	T	Propene	1.325	1.260	4.9	104	0.00
3	T	Dichlorodifluoromethane	4.254	4.111	3.4	105	0.00
4	T	Chloromethane	1.968	2.026	-2.9	104	-0.01
5	T	Freon 114	1.135	1.206	-6.3	114	0.00
6	T	Vinyl Chloride	2.430	2.474	-1.8	106	-0.01
7	T	1,3-Butadiene	1.481	1.561	-5.4	109	0.00
8	T	Bromomethane	1.169	1.179	-0.9	104	-0.01
9	T	Chloroethane	1.271	1.276	-0.4	105	0.00
10	T	Ethanol	1.003	1.023	-2.0	105	-0.02
11	T	Acetonitrile	2.587	2.565	0.9	108	-0.01
12	T	Acrolein	0.823	0.840	-2.1	106	0.00
13	T	Acetone	1.229	1.137	7.5	110	0.00
14	T	Trichlorofluoromethane	3.623	3.758	-3.7	109	0.00
15	T	Isopropanol	4.311	4.872	-13.0	108	-0.01
16	T	Acrylonitrile	1.845	1.881	-2.0	108	0.00
17	T	1,1-Dichloroethene	1.461	1.492	-2.1	106	0.00
18	T	tert-Butanol	2.840	3.069	-8.1	124	0.00
19	T	Methylene Chloride	1.599	1.549	3.1	105	0.00
20	T	Allyl Chloride	2.108	2.347	-11.3	108	0.00
21	T	Trichlorotrifluoroethane	1.320	1.294	2.0	104	0.00
22	T	Carbon Disulfide	5.506	5.597	-1.7	106	0.00
23	T	trans-1,2-Dichloroethene	2.998	3.005	-0.2	104	0.00
24	T	1,1-Dichloroethane	3.224	3.345	-3.8	106	0.00
25	T	Methyl tert-Butyl Ether	5.095	5.901	-15.8	114	0.00
26	T	Vinyl Acetate	0.338	0.408	-20.7	108	0.00
27	T	2-Butanone	1.062	1.122	-5.6	110	0.00
28	T	cis-1,2-Dichloroethene	2.853	2.880	-0.9	106	0.00
29	T	Diisopropyl Ether	1.498	1.542	-2.9	110	0.00
30	T	Ethyl Acetate	0.580	0.581	-0.2	107	-0.01
31	T	n-Hexane	2.793	2.831	-1.4	115	0.00
32	T	Chloroform	3.165	3.119	1.5	105	0.00
33	S	1,2-Dichloroethane-d4 (SS1)	3.165	3.104	1.9	99	0.00
34	T	Tetrahydrofuran	1.117	1.184	-6.0	105	0.00
35	T	Ethyl tert-Butyl Ether	2.168	2.419	-11.6	111	0.00
36	T	1,2-Dichloroethane	3.846	3.866	-0.5	104	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	105	0.00
38	T	1,1,1-Trichloroethane	0.711	0.698	1.8	103	0.00
39	T	Isopropyl Acetate	0.196	0.211	-7.7	112	0.00
40	T	1-Butanol	0.277	0.316	-14.1	117	-0.01

(#) = Out of Range

9/14/07

Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\13\09130714.D Vial: 3
Acq On : 13 Sep 2007 19:08 Operator: RTB
Sample : 25ng TO-15 CCV Standard Inst : MSD3
Misc : S20-09090701/S15-08280706 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.299	1.258	3.2	106	0.00
42	T	Carbon Tetrachloride	0.492	0.550	-11.8	108	0.00
43	T	Cyclohexane	0.560	0.543	3.0	107	0.00
44	T	tert-Amyl Methyl Ether	1.047	1.116	-6.6	111	0.00
45	T	1,2-Dichloropropane	0.333	0.322	3.3	106	0.00
46	T	Bromodichloromethane	0.515	0.533	-3.5	106	0.00
47	T	Trichloroethene	0.329	0.314	4.6	104	0.00
48	T	1,4-Dioxane	0.251	0.254	-1.2	107	0.00
49	T	Isooctane	1.383	1.385	-0.1	112	0.00
50	T	Methyl Methacrylate	0.145	0.155	-6.9	108	0.00
51	T	n-Heptane	0.361	0.355	1.7	109	0.00
52	T	cis-1,3-Dichloropropene	0.601	0.621	-3.3	105	0.00
53	T	4-Methyl-2-Pentanone	0.305	0.328	-7.5	111	0.00
54	T	trans-1,3-Dichloropropene	0.591	0.612	-3.6	104	0.00
55	T	1,1,2-Trichloroethane	0.305	0.312	-2.3	107	0.00
56	IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	101	0.00
57	S	Toluene-d8 (SS2)	1.725	1.865	-8.1	110	0.00
58	T	Toluene	2.245	2.278	-1.5	107	0.00
59	T	2-Hexanone	1.262	1.383	-9.6	111	0.00
60	T	Dibromochloromethane	0.505	0.571	-13.1	108	0.00
61	T	1,2-Dibromoethane	0.515	0.547	-6.2	105	0.00
62	T	Butyl Acetate	1.342	1.489	-11.0	114	0.00
63	T	n-Octane	0.481	0.509	-5.8	108	0.00
64	T	Tetrachloroethene	0.537	0.537	0.0	105	0.00
65	T	Chlorobenzene	1.381	1.387	-0.4	106	0.00
66	T	Ethylbenzene	2.766	2.846	-2.9	106	0.00
67	T	m- & p-Xylene	1.881	1.940	-3.1	105	0.00
68	T	Bromoform	0.298	0.356	-19.5	109	0.00
69	T	Styrene	1.457	1.544	-6.0	106	0.00
70	T	o-Xylene	2.051	2.098	-2.3	105	0.00
71	T	n-Nonane	1.112	1.149	-3.3	107	0.00
72	T	1,1,2,2-Tetrachloroethane	0.754	0.791	-4.9	106	0.00
73	S	Bromofluorobenzene (SS3)	0.519	0.528	-1.7	102	0.00
74	T	Cumene	2.658	2.718	-2.3	104	0.00
75	T	alpha-Pinene	1.382	1.479	-7.0	107	0.00
76	T	n-Propylbenzene	3.239	3.365	-3.9	106	0.00
77	T	3-Ethyltoluene	2.802	2.879	-2.7	104	0.00
78	T	4-Ethyltoluene	2.634	2.748	-4.3	106	0.00
79	T	1,3,5-Trimethylbenzene	2.435	2.499	-2.6	106	0.00
80	T	alpha-Methylstyrene	1.046	1.145	-9.5	107	0.00

(#) = Out of Range

9/14/07

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Evaluate Continuing Calibration Report

Data File : J:\MS03\DATA\2007_09\13\09130714.D
Acq On : 13 Sep 2007 19:08
Sample : 25ng TO-15 CCV Standard
Misc : S20-09090701/S15-08280706
MS Integration Params: rteint.p

Vial: 3
Operator: RTB
Inst : MSD3
Multiplr: 1.00

Method : J:\MS03\METHODS\R3081007.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Jul 30 19:12:44 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	2-Ethyltoluene	2.894	2.989	-3.3	106	0.00
82	T	1,2,4-Trimethylbenzene	2.452	2.531	-3.2	105	0.00
83	T	n-Decane	1.235	1.267	-2.6	106	0.00
84	T	Benzyl Chloride	2.000	2.259	-13.0	105	0.00
85	T	1,3-Dichlorobenzene	1.140	1.149	-0.8	103	0.00
86	T	1,4-Dichlorobenzene	1.126	1.141	-1.3	106	0.00
87	T	sec-Butylbenzene	2.988	3.077	-3.0	106	0.00
88	T	p-Isopropyltoluene	2.659	2.742	-3.1	105	0.00
89	T	1,2,3-Trimethylbenzene	2.364	2.458	-4.0	105	0.00
90	T	1,2-Dichlorobenzene	1.088	1.110	-2.0	105	0.00
91	T	d-Limonene	0.967	1.055	-9.1	109	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.341	0.384	-12.6	104	0.00
93	T	n-Undecane	0.072	0.071	1.4	103	0.00
94	T	1,2,4-Trichlorobenzene	0.230	0.242	-5.2	106	0.00
95	T	Naphthalene	2.574	2.795	-8.6	109	0.00
96	T	n-Dodecane	1.008	1.114	-10.5	114	0.00
97	T	Hexachloro-1,3-butadiene	0.446	0.462	-3.6	106	0.00

09/14/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Project ID: **WDI**

CAS Project ID: P2702702

Internal Standard Area and RT Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister(s)
Test Notes:

Lab File ID: 09100707.D
Date Analyzed: 9/10/07
Time Analyzed: 10:14

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	280841	8.69	1531405	10.63	965688	15.48
	Upper Limit	393177	9.02	2143967	10.96	1351963	15.81
	Lower Limit	168505	8.36	918843	10.30	579413	15.15
	Client Sample ID						
01	Method Blank	275590	8.68	1532271	10.63	976449	15.48
02	Lab Control Sample	282757	8.69	1551224	10.64	970623	15.49
03	Duplicate Lab Control Sample	299240	8.69	1617010	10.64	1016406	15.49
04	WDI-GTS-IN-8-30-07	297428	8.70	1592609	10.64	1020080	15.48
05	WDI-GTS-IN-8-30-07 (Lab Duplicate)	302506	8.70	1602275	10.64	1016539	15.48
06	WDI-GTS-OUT-8-30-07	311765	8.69	1688361	10.63	1065522	15.48
07							
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
AREA LOWER LIMIT = 60% of internal standard area
RT UPPER LIMIT = 0.33 minutes of internal standard RT
RT LOWER LIMIT = 0.33 minutes of internal standard RT

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

Verified by: RG Date: 9/18/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Project ID: **WDI**

CAS Project ID: P2702702

Internal Standard Area and RT Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo
Sampling Media: Summa Canister(s)
Test Notes:

Lab File ID: 09130701.D
Date Analyzed: 9/13/07
Time Analyzed: 08:10

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	308355	8.69	1664315	10.63	1054274	15.48
	Upper Limit	431697	9.02	2330041	10.96	1475984	15.81
	Lower Limit	185013	8.36	998589	10.30	632564	15.15
	Client Sample ID						
01	Method Blank	295474	8.68	1665492	10.63	1038434	15.48
02	Lab Control Sample	307055	8.69	1676869	10.63	1054766	15.48
03	Duplicate Lab Control Sample	323087	8.69	1739722	10.63	1089162	15.48
04	WDI-GTS-IN-8-30-07 (Dilution)	305800	8.68	1678036	10.63	1062202	15.48
05	WDI-GTS-IN-8-30-07 (Dilution)	305870	8.68	1669245	10.63	1044230	15.48
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
AREA LOWER LIMIT = 60% of internal standard area
RT UPPER LIMIT = 0.33 minutes of internal standard RT
RT LOWER LIMIT = 0.33 minutes of internal standard RT

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

Verified by: Rc Date: 9/18/07

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	DATE/TIME	FILENAME	SAMPLE ID	MISC. INFO	AS POS	INIT	COMMENT
1	8/10/07 10:32	08100701.D	S15-07270703 (125mL)	Test	C	RB	
2	8/10/07 11:22	08100702.D	S15-07270703 (125mL)	Test	C	T	
3	8/10/07 13:44	08100703.D	Blank (100mL)	Test	3		
4	8/10/07 14:24	08100704.D	Blank (100mL)	Test	3		
5	8/10/07 15:02	08100705.D	Blank (100mL)	Test	3		
6	8/10/07 15:41	08100706.D	Blank (100mL)	Test	3		
7	8/10/07 16:36	08100707.D	Blank (200mL)	Test	3		
8	8/10/07 17:25	08100708.D	BFB Tune Standard (200mL)	S15-08010701	3		
9	8/10/07 18:01	08100709.D	0.5ng TO-15 ICAL Standard	S15-08010701/S15-08090704	B		
10	8/10/07 18:38	08100710.D	1ng TO-15 ICAL Standard	S15-08010701/S15-08090704	B		
11	8/10/07 19:15	08100711.D	5ng TO-15 ICAL Standard	S15-08010701/S15-08090704	B		ICAL: good for everything except TBA
12	8/10/07 19:52	08100712.D	25ng TO-15 ICAL Standard	S15-08010701/S15-08080702	C		
13	8/10/07 20:29	08100713.D	50ng TO-15 ICAL Standard	S15-08010701/S15-08080702	C		
14	8/10/07 21:06	08100714.D	100ng TO-15 ICAL Standard	S15-08010701/S15-08080702	C		
15	8/10/07 21:43	08100715.D	25ng TO-15 ICV Standard	S15-08010701/S15-07270707	2		Passed
16	8/12/07 18:42	08100716.D	Blank (100mL)	Test	3		
17	8/13/07 06:34	08100717.D	Lab Air (1.0L)	S15-08010701	4		
18	8/13/07 07:11	08100718.D	S15-08090704 (250mL)	Test	B		

	DATE/TIME	FILENAME	SAMPLE ID	MISC. INFO	AS POS	INIT	COMMENT
23	9/8/07 02:47	09070723.D	Blank (100mL)	Test	3	RB	
24	9/8/07 03:25	09070724.D	Blank (100mL)	Test			
25	9/8/07 04:02	09070725.D	Blank (100mL)	Test			
26	9/8/07 04:40	09070726.D	Blank (100mL)	Test			
27	9/8/07 05:17	09070727.D	Blank (100mL)	Test			
28	9/8/07 05:55	09070728.D	Blank (100mL)	Test			
29	9/8/07 06:32	09070729.D	Blank (100mL)	Test			
30	9/8/07 07:10	09070730.D	Blank (100mL)	Test			
31	9/8/07 07:47	09070731.D	Blank (100mL)	Test			
32	9/8/07 21:05	09070732.D	Blank (100mL)	Test			
33	9/8/07 22:20	09070733.D	Blank (100mL)	Test			
34	9/8/07 23:35	09070734.D	Blank (100mL)	Test			
35	9/9/07 00:50	09070735.D	Blank (100mL)	Test			
36	9/9/07 02:04	09070736.D	Blank (100mL)	Test			
37	9/9/07 03:19	09070737.D	Blank (100mL)	Test			
38	9/9/07 04:33	09070738.D	Blank (100mL)	Test			
39	9/9/07 05:48	09070739.D	Blank (100mL)	Test			
40	9/9/07 07:03	09070740.D	Blank (100mL)	Test			
41	9/9/07 08:17	09070741.D	Blank (100mL)	Test			
42	9/9/07 09:32	09070742.D	Blank (100mL)	Test			
43	9/9/07 10:46	09070743.D	Blank (100mL)	Test			
44	9/9/07 12:01	09070744.D	Blank (100mL)	Test			
45	9/9/07 13:18	09070745.D	Blank (100mL)	Test			
46	9/9/07 14:32	09070746.D	Blank (100mL)	Test			
47	9/9/07 20:49	09070747.D	Blank (100mL)	Test			
48	9/10/07 05:04	09070748.D	Blank (100mL)	Test			
49	9/10/07 05:41	09070749.D	S15-08240711 (25mL)	Test	B		

1	9/10/07 06:18	09100701.D	25ng TO-15 CCV Standard	S20 ~~S15~~-09090701/S15-08280705	C	RB	NOT USED (CTCL b. high)
2	9/10/07 06:55	09100702.D	25ng C3-C12 Alkane Standard	~~S15~~-09090701/S15-08230709	16		
3	9/10/07 07:46	09100703.D	TO-15 Method Blank (1.0L)	~~S15~~-09090701	3		
4	9/10/07 08:22	09100704.D	1ng TO-15 CRQL Standard	~~S15~~-09090701/S15-08240711	B		
5	9/10/07 08:59	09100705.D	25ng TO-15 LCS	~~S15~~-09090701/S15-08230703	2		
6	9/10/07 09:37	09100706.D	25ng TO-15 LCSD	~~S15~~-09090701/S15-08230703	2		
7	9/10/07 10:14	09100707.D	25ng TO-15 CCV Standard	~~S15~~-09090701/S15-08280706	C		Passed
8	9/10/07 10:55	09100708.D	25ng C3-C12 Alkane Standard	~~S15~~-09090701/S15-08230709	16		
9	9/10/07 11:32	09100709.D	TO-15 Method Blank (1.0L)	~~S15~~-09090701	3		Passed
10	9/10/07 12:09	09100710.D	1ng TO-15 CRQL Standard	~~S15~~-09090701/S15-08240711	B		Passed
11	9/10/07 12:46	09100711.D	25ng TO-15 LCS	~~S15~~-09090701/S15-08230703	2		Passed
12	9/10/07 13:23	09100712.D	25ng TO-15 LCSD	P 07/13/07 ~~S15~~-09090701/S15-08230703	2		Passed
13	9/10/07 14:00	09100713.D	P2702702-001 (100mL)	TRC WDI-GTS-IN-8-30-07 (-3.0, 3.5)	4		
14	9/10/07 14:36	09100714.D	P2702702-001 DUP (100mL)	TRC WDI-GTS-IN-8-30-07 (-3.0, 3.5)	4		Passed
15	9/10/07 15:13	09100715.D	P2702702-002 (1000mL)	TRC WDI-GTS-OUT-8-30-07 (-2.6, 3.6)	5		
16	9/10/07 15:50	09100716.D	25ng TO-15 CCV Standard	P 07/13/07 S20 ~~S15~~-09090701/S15-08280705	C		Passed
17	9/10/07 16:31	09100717.D	P2702755-003 (20mL)	[redacted] (-2.3, 10.0)	6		
18	9/10/07 17:08	09100718.D	P2702755-003 DUP (20mL)	[redacted] (-2.3, 10.0)	6		Passed
19	9/10/07 17:45	09100719.D	P2702755-001 (400mL)	[redacted] (-6.1, 10.8)	7		

Case Files not met; will be rerun.

ave+TICs

r vol.
r vol.

	DATE/TIME	FILENAME	SAMPLE ID	MISC. INFO	AS POS	INIT	COMMENT
7	9/12/07 12:25	09120707.D	P2702784-002 (1000mL)	[redacted](0.4, 3.5)	4	RB	
8	9/12/07 13:03	09120708.D	P2702795-001 (200mL)	[redacted]	6		
9	9/12/07 13:40	09120709.D	P2702795-001 DUP (200mL)	[redacted]	6		– Passed
10	9/12/07 17:50	09120710.D	Blank (100mL)	Test	3		
11	9/12/07 18:31	09120711.D	Lab Air (1.0L)	~~S15~~ S20 09090701	7		
12	9/12/07 19:08	09120712.D	Blank (100mL)	Test	3		
13	9/13/07 07:33	09120713.D	S15-08090704 (25mL)	Test	16		

RB 09/13/07

1	9/13/07 08:10	09130701.D	25ng TO-15 CCV Standard	S20-09090701/S15-08280706	6	RB	– Passed
2	9/13/07 08:51	09130702.D	TO-15 Method Blank (1.0L)	S20-09090701	3		– Passed
3	9/13/07 09:28	09130703.D	25ng TO-15 LCS	S20-09090701/S15-08230703	2		– Passed
4	9/13/07 11:39	09130704.D	CAS Can QC#2 09/11/07 (1.0L)	SC00871	4		– Failed
5	9/13/07 12:16	09130705.D	P2702809-001 (10mL)	[redacted]	3		
6	9/13/07 12:55	09130706.D	P2702809-003 (40mL)	[redacted]	5		
7	9/13/07 13:32	09130707.D	P2702809-002 (200mL)	[redacted]	6		
8	9/13/07 14:09	09130708.D	P2702809-003 DUP (40mL)	[redacted]	5		– Passed
9	9/13/07 15:01	09130709.D	P2702805-001 (200mL)	[redacted]	7		
10	9/13/07 16:42	09130710.D	1ng TO-15 CRQL Standard	S20-09090701/S15-08240711	5		– Passed exc. Acet. (b-high)
11	9/13/07 17:18	09130711.D	25ng TO-15 LCSD	S20-09090701/S15-08230703	2		– Passed
12	9/13/07 17:54	09130712.D	P2702702-001 DIL (3mL)	TRC WDI-GTS-IN-8-30-07 (-3.0, 3.5)(150mL/20mL->1L)	8		
13	9/13/07 18:31	09130713.D	P2702702-001 DUP DIL (3mL)	TRC WDI-GTS-IN-8-30-07 (-3.0, 3.5)(150mL/20mL->1L)	8		– Passed
14	9/13/07 19:08	09130714.D	25ng TO-15 CCV Standard	S20-09090701/S15-08280706	6		– Passed
15	9/13/07 19:45	09130715.D	Blank (100mL)	Test	3		
16	9/13/07 20:26	09130716.D	Lab Air (1.0L)	S20-09090701	9		
17	9/13/07 21:03	09130717.D	Blank (100mL)	Test	3		
18	9/14/07 07:18	09130718.D	S15-08090704 (25mL)	Test	16		

+ TICs

Columbia Analytical Services, Inc.
Air Quality Laboratory
An Employee Owned Company

QC CERTIFICATION

Quality Control Results:	PASS
Quality Control Batch ID:	07463
Quality Control Analyzed:	22-Aug-07
Cleaned:	15-Aug-07
Quality Control Analyzed on Container:	SC00639

Container IDs

SC00878
SC00447
SC00476
SC00784
SC00238
SC00775
SC00172
SC00815
SC00342
SC00639

Columbia Analytical Services, Inc.
Air Quality Laboratory
An Employee Owned Company

QC CERTIFICATION

Quality Control Results:	PASS
Quality Control Batch ID:	07436
Quality Control Analyzed:	13-Aug-07
Cleaned:	06-Aug-07
Quality Control Analyzed on Container:	SC00844

Container IDs

SC00617
SC00812
SC00900
SC00844
SC00713
SC00283
SC00590
SC00865
SC00530
SC00069

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: TRC Work order: P2702702

Project: WDI/125154.0000.0000

Sample(s) received on: 8/31/07 Date opened: 8/31/07 by: MZ

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature NA °C			
	Blank Temperature NA °C			
8	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Is pH (acid) **preservation** necessary, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** (acid) preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Required pH (as received, if required)	pH (as received, if required)	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2702702-001			NA	
P2702702-002			NA	

Explain any discrepancies: (include lab sample ID numbers):

Air - Chain of Custody Record & Analytical Service Request

Columbia Analytical Services INC.
An Employee - Owned Company

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Project No. P2702702

CAS Contact

Company Name & Address (Reporting Information): TRC, 21 W. TECHNOLOGY DR., IRVINE, CA. 92618

Project Name: WDI

Project Number: 125154.0000.0000

Project Manager: ANAND HELEKAR

P.O. # / Billing Information

Phone: (949) 727-9336 Fax: (949) 727-7399

Email Address for Result Reporting: AHELEKAR@TRCSOLUTIONS.COM

Sampler (Print & Sign): STEVEN CRAWFORD Steven Crawford

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume	TO-15	EPA 25C MODIFIED (TOTAL NON-METHANE ORGANIC CARBON)	EPA 3C MODIFIED (METHANE)		Comments e.g. Actual Preservative or specific instructions
WDI-GTS-IN-8-30-07	1	8-30-07	828	AIR	SC00775	6V-5-083	6L	X	X	X		
WDI-GTS-OUT-8-30-07	2	8-30-07	752	AIR	SC00844	6V-5-002	6L	X	X	X		

Report Tier Levels - please select
Tier I - (Results/Default if not specified) ____
Tier II - (Results + QC) ✓
Tier III - (Data Validation Package) 10% Surcharge ____
Tier V - (client specified) ____
EDD required Yes / No
Type: _____ EDD Units: _____

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Steven Crawford	8-30-07	1030	[illegible]	8/31/07	0420
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank 1232
Temperature °C