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

April 23, 2007

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

RE: P2700782
WDI

Dear Mr. Helekar:

Enclosed are the results of the sample(s) submitted to our laboratory on March 21, 2007. For your reference, these analyses have been assigned our service request number P2700782.

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. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 108 pages.

Columbia Analytical Services is certified by the California Department of Health Services, Certificate No. 2380; Arizona Department of Health Services, Certificate No. AZ0694; 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. Please contact me for specific method(s) and analyte(s) 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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LABORATORY REPORT

Client:	TRC	Date of Report:	04/23/07
Address:	21 Technology Drive	Date Received:	03/21/07
	Irvine, CA 92618	CAS Project No:	P2700782
Contact:	Mr. Anand Helekar	Purchase Order:	IRV-804334

Client Project ID: WDI

One (1) Stainless Steel Summa Canister labeled: "WDI-IBM-21-3-15-07"

The sample was received at the laboratory under chain of custody on March 21, 2007. The sample was 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 sample was 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 sample was 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:

Liliana Marghitoiu
Analytical Chemist
Air Quality Laboratory

Reviewed and Approved:

Wade Henton
GC-VOA Team Leader
Air Quality Laboratory

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CAS Project No: P2700782

Volatile Organic Compound Analysis

The sample was also analyzed by combined gas chromatography/mass spectrometry (GC/MS) in scan mode for volatile organic compounds and in SIM mode for selected 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 systems used were comprised of an Agilent Model 5973inert GC/MS/DS and an Agilent 5973N GC/MS/DS each 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.

On March 28, 2007 trichlorotrifluoroethane was biased high on closing continuing calibration verification.

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 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-IBM-21-3-15-07**
Client Project ID: **WDI**

CAS Project ID: P2700782
CAS Sample ID: P2700782-001

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01241

Date Collected: 3/15/07
Date Received: 3/21/07
Date Analyzed: 4/12/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.8 Pf 1 = 3.5
D.F. = 1.53

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.6**	0.77	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**12**	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: Rc Date: 4/17/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700782
CAS Sample ID: P070412-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: 4/12/07
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: RG Date: 4/17/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700782
CAS Sample ID: P070412-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: 4/12/07
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Methane	57.5	59.8	104	90-110	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	345	352	102	90-110	

Verified By: Rw Date: 4/17/07

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	124856778			

	Integration Parameter File	Sum?
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Compound #4: TGHM0-1 (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?
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Compound #5: TGM90-2 (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	25614390			
6	29850.000	191892442			

	Integration Parameter File	Sum?
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PERFORMANCE ANALYTICAL INC.

ZW 4/12/07

EPA 25C TCA/FID Analysis for TGNMO

Client & PAI Job# : TRC P2700782
Analyst : WHH
Sample amount : 500uL / 68uL

Printed : 4/12/07
Instrument : GC #1 / FID #1
Date analyzed : 4/12/07

Sample Results (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGNMO-2	Pi1	Pf1	Pi2	Pf2
STD 100ppm S14-122806	93.1	73.8	90.5	103.8					
ACTUAL	100.1	80.1	100.7	101.2					
% DIFF.	7.0%	7.8%	10.1%	2.5%					
MB NL	0.00	0.00	0.33	0.00	0.00				
LAB AIR NL	1.21	1.84	443.73	0.00	0.00				
0782-001 v	0.67	1.03	v	8.04	0.00	-2.8	3.5		
LCSD 345ppm S14-04050	60.28	58.15	57.44	343.23	0.00				
ACTUAL	57.9	57.5	57.9	345.0					
% Recovery	104.1%	101.1%	99.3%	99.5%					
LCS 345ppm S14-040506	61.73	59.79	58.99	352.04					
ACTUAL	57.9	57.5	57.9	345.0					
% Recovery	106.6%	104.0%	102.0%	102.0%					
STD 100ppm S14-121506	93.31	74.58	123.86	104.27					
ACTUAL	100.1	80.1	100.7	101.2					
% DIFF.	6.8%	6.9%	23.0%	3.0%					

Completed Sample Results ppm

Loop ratio=7.33

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TOTAL TGNMO	TOTAL TGNMO as Hexane	BAG DF	LOOP DF	PiPf DF
RL ppm *	5.0	0.5	5.0	1.0	0.17			
MDL ppm	0.10	0.19	1.80	0.48	0.08			
MB NL	ND	ND	0.33	ND	ND	1.00	1.00	1.00
LAB AIR NL	1.21	1.84	443.73	ND	ND	1.00	1.00	1.00
0782-001 v	ND	1.58	VENT	12.29	2.05	1.00	1.00	1.53

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Injection Log

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

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

WB 10/23/06

12

23 Oct 06 16:54

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

DATE: 4 / 12 / 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_04\12\ METHOD FILE NAME: J:\GC1\METHODS_____.M

	DATA FILE HEADER INFO		CLIENT	ANALYST
01	Std 100ppm S14-12280601			ZW
02	↓			↓
03	MB			
04	Lab Air			
05	LCS 345ppm S14-04050602			
06	LCSD ↓			
07	Std 100ppm S14-12280601			
08	MB 1			
09	Lab Air			
10	LCS 345 ppm S14-04050602			
11	LCSD ↓			
12	0838 -001	V	TRC	
13	↓ -001	↓	↓	
14	-002			
15	↓ -002	dup		
16	0782-001			
17	0814-010			
18	↓ -011			
19	-012			
20	↓ -002	↓	↓	↓

	DATA FILE HEADER INFO		CLIENT	ANALYST
21	0814-003	V	TRC	ZW
22	Std 100ppm S14-12280601			↓
23	0814-004	V	TRC	
24	↓ -005	↓	↓	
25	-006			
26	↓ -001	VV		
27	Wait			
28	0814-008	V	TRC	
29	↓ -009	↓	↓	
30	Std 100ppm S14-12150601			
31				
32				
33				ZW
34				
35				4/13/07
36				
37				
38				
39				
40				

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-21-3-15-07**
Client Project ID: **WDI**

CAS Project ID: P2700782
CAS Sample ID: P2700782-001

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

Date Collected: 3/15/07
Date Received: 3/21/07
Date Analyzed: 4/9/89
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.8 Pf 1 = 3.5
D.F. = 1.53

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 *	**22.2**	0.15	
7727-37-9	Nitrogen	**77.7**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	ND	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: 4/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700782
CAS Sample ID: P070326-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 3/26/07
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: 4/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700782
CAS Sample ID: P070326-LCS

Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 3/26/07
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	CAS Acceptance Limits
Hydrogen	40,100	37,800	**94**	90-110
Oxygen + Argon *	50,000	52,200	**104**	90-110
Nitrogen	50,500	53,400	**106**	90-110
Carbon Monoxide	50,100	51,800	**103**	90-110
Carbon Dioxide	50,400	52,500	**104**	90-110

Verified By: RG Date: 4/4/07

Response Factor Report GC 01

Method : J:\GC01\METHODS\3C082106.M (Chemstation Integrator)
Title : EPA 3C GC/TCD Analysis for Fixed Gases
Last Update : Mon Aug 21 16:53:50 2006

Calibration Files
1 =08210605.D 2 =08210606.D 3 =08210607.D
4 =08210608.D 5 =08210609.D

	Compound	1	2	3	4	5	Avg		%RSD
1)	Hydrogen	0.969	0.809	0.886	1.007	0.994	0.933	E1	8.97
2)	Oxygen	1.329	1.193	1.293	1.265	1.167	1.249	E1	5.43
3)	Nitrogen	1.476	1.364	1.484	1.480	1.406	1.442	E1	3.74
4)	Carbon Monoxide	1.384	1.312	1.423	1.406	1.323	1.370	E1	3.63
5)	Methane	1.027	0.996	1.061	1.039	0.973	1.019	E1	3.40
6)	Carbon Dioxide	1.559	1.511	1.614	1.591	1.498	1.555	E1	3.20

Wp 8/22/06

#) = Out of Range

Compound #1: Hydrogen (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	34.255	332			
2	697.000	5638			
3	4100.000	36325			
4	42927.000	432280			
5	73800.000	733283			

	Integration Parameter File	Sum?		
Tgt				1.00
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Compound = 2: Oxygen (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	43.017	572			
2	841.500	10838			
3	4950.000	63867			
4	51626.500	655569			
5	89100.000	1039947			

	Integration Parameter File	Sum?
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Compound = 3: Nitrogen (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	42.585	628			
2	844.050	11517			
3	4965.000	73699			
4	51983.550	769193			
5	89370.000	1256516			

	Integration Parameter File	Sum?
Tgt		

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Compound #4: Carbon Monoxide (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	42.585	589			
2	853.400	11196			
3	5020.000	71443			
4	52559.400	738905			
5	90360.000	1195622			

	Integration Parameter File	Sum?
Tgt		
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Compound #5: Methane (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	34.425	353			
2	685.700	6832			
3	4034.000	42792			
4	42235.980	438858			
5	72612.000	706850			

	Integration Parameter File	Sum?
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Compound #6: Carbon Dioxide (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	42.585	664			
2	847.450	12805			
3	4985.000	80434			
4	52192.950	830567			
5	89730.000	1344318			

	Integration Parameter File	Sum?
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ZW 3/27/07

COLUMBIA ANALYTICAL INC.

EPA 3C GC/TCD Analysis for Fixed Gases

Client & PAI Job# : TRC P2700782
Analyst : ZW
Sample amount : ~100uL

Printed : 3/27/07
Instrument : GC #1 / TCD #1
Date analyzed : 3/26/07

Sample Result

Sample ID	Hydrogen	O2/Ar	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	Pi1	Pf1	Pi2	Pf2
STD-50000ppm	39079	51490	50605	52219	42215	52825				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	2.5%	3.0%	0.1%	4.3%	5.4%	4.9%				
MB	0	0	0	0	0	0				
LAB AIR	0	221960	789647	0	0	552				
0782-001	0	175508	615903	0	0	761	-2.8	3.5		
LCS 50000ppm S14-12	37837	52203	53426	51799	42798	52526				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	5.6%	4.5%	5.7%	3.5%	6.9%	4.3%				
STD 50000ppm S14-12	39705	51550	50492	52489	42306	52757				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	1.0%	3.2%	0.1%	4.9%	5.6%	4.8%				
STD 50000ppm S14-04	39171	51537	50408	51684	42234	52794				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	2.3%	3.1%	0.3%	3.3%	5.5%	4.8%				

Sample Result ppm with the DILUTION FACTOR

Sample ID	Hydrogen	O2/Ar	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	Total	D.F.
MB	0	0	0	0	0	0	0.0	1.00
LAB AIR	0	221960	789647	0	0	552	101.2	1.00
0782-001	0	268425	941970	0	0	1164	121.2	1.53

Sample Result (Normalized)

Sample ID	Hydrogen	O2/Ar	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	Total
RL ppm	1000	1000	1000	1000	1000	1000	
MDL ppm	400	500	400	500	500	600	
STD-50000ppm	39079	51490	50605	52219	42215	52825	
MB	ND	ND	ND	ND	ND	ND	
LAB AIR	ND	219271	780083	ND	ND	546	99.99
0782-001	ND	221531	777409	ND	ND	960	99.99

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Injection Log

Directory: j:\gc01\data\fxg\2006_08\21

ne	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
	4	08210601.d	10.	Test		21 Aug 106 12::5
	4	08210602.d	10.	Test		21 Aug 106 13::5
	4	08210603.d	10.	MB		21 Aug 106 13::0
	4	08210604.d	10.	test		21 Aug 106 12::1
	4	08210605.d	10.	STD 1 S14-03260601 (loop 0.17)		21 Aug 106 12::3
	4	08210606.d	10.	STD 2 S14-04120602 (loop 0.17)		21 Aug 106 12::1
	5	08210607.d	10.	STD 3 S14-04120602 (loop 1.00)		21 Aug 106 12::3
	5	08210608.d	10.	STD 4 S14-04120602 (loop 10.47)		21 Aug 106 12::4
	5	08210609.d	10.	STD 5 S14-~~05~~ 4120602 (loop 18.0)		21 Aug 106 12::5
0	5	08210610.d	10.	lab air	lab [illegible]	21 Aug 106 12::1
1	5	08210611.d	10.	icv		21 Aug 106 12::2
2	5	08210612.d	10.	ICV S14-07110501		21 Aug 106 12::5
3	5	08210613.d	10.	blank		21 Aug 106 12::1

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

DATE: 3 / 26 / 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\Fxg\2007\03\26\ METHOD FILE NAME: J:\GC1\METHODS_____.M

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	Std 50000 ppm S14-12150702		ZW
02	MB		
03	Lab Air		
04	LCS 50000 ppm S14-12150701		
05	0726-001	TRC	
06	-002		
07	-002		
08	-003		
09	-004		
10	-005		
11	-006		
12	-007		
13	-008		
14	-009		
15	Std 50000 ppm		
16	0726-010	TRC	
17	-011		
18	-012		
19	-013		
20	-014		

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	0782-001	TRC	ZW
22	0763-001	[redacted]	
23	-002		
24	-003		
25	-004		
26	Std 50000 ppm S14-12150602		
27			
28			
29			
30		ZW	
31			
32		3/27/07	
33			
34			
35			
36			
37			
38			
39			
40			

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-21-3-15-07**
Client Project ID: **WDI**

CAS Project ID: P2700782
CAS Sample ID: P2700782-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01241

Date Collected: 3/15/07
Date Received: 3/21/07
Date(s) Analyzed: 3/28/07
Volume(s) Analyzed: 0.50 Liter(s)

Pi 1 = -2.8 Pf 1 = 3.5

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	3.1	ND	1.5	
75-01-4	Vinyl Chloride	ND	3.1	ND	1.2	
74-83-9	Bromomethane	ND	3.1	ND	0.79	
75-00-3	Chloroethane	ND	3.1	ND	1.2	
67-64-1	Acetone	**72**	15	**30**	6.4	
75-69-4	Trichlorofluoromethane	**4.2**	3.1	**0.74**	0.54	**V**
75-35-4	1,1-Dichloroethene	ND	3.1	ND	0.77	
75-09-2	Methylene chloride	ND	3.1	ND	0.88	
76-13-1	Trichlorotrifluoroethane	ND	3.1	ND	0.40	
75-15-0	Carbon Disulfide	ND	3.1	ND	0.98	
156-60-5	trans-1,2-Dichloroethene	ND	3.1	ND	0.77	
75-34-3	1,1-Dichloroethane	ND	3.1	ND	0.76	
1634-04-4	Methyl tert-Butyl Ether	**4.1**	3.1	**1.1**	0.85	
108-05-4	Vinyl Acetate	**12**	3.1	**3.4**	0.87	**M**
78-93-3	2-Butanone (MEK)	**16**	3.1	**5.4**	1.0	
156-59-2	cis-1,2-Dichloroethene	ND	3.1	ND	0.77	
67-66-3	Chloroform	ND	3.1	ND	0.63	
107-06-2	1,2-Dichloroethane	ND	3.1	ND	0.76	
71-55-6	1,1,1-Trichloroethane	ND	3.1	ND	0.56	
71-43-2	Benzene	ND	3.1	ND	0.96	
56-23-5	Carbon Tetrachloride	ND	3.1	ND	0.49	
78-87-5	1,2-Dichloropropane	ND	3.1	ND	0.66	

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; results may be biased high.
V = The client required closing continuing calibration verification standard was outside (biased high) the method limits for this compound.

Verified By: Rc Date: 4/17/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-21-3-15-07**
Client Project ID: **WDI**

CAS Project ID: P2700782
CAS Sample ID: P2700782-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01241

Date Collected: 3/15/07
Date Received: 3/21/07
Date(s) Analyzed: 3/28/07
Volume(s) Analyzed: 0.50 Liter(s)

Pi 1 = -2.8 Pf 1 = 3.5

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	3.1	ND	0.46	
79-01-6	Trichloroethene	ND	3.1	ND	0.57	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	ND	0.67	
108-10-1	4-Methyl-2-pentanone	ND	3.1	ND	0.75	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	ND	0.67	
79-00-5	1,1,2-Trichloroethane	ND	3.1	ND	0.56	
108-88-3	Toluene	**240**	3.1	**63**	0.81	
591-78-6	2-Hexanone	ND	3.1	ND	0.75	
124-48-1	Dibromochloromethane	ND	3.1	ND	0.36	
106-93-4	1,2-Dibromoethane	ND	3.1	ND	0.40	
127-18-4	Tetrachloroethene	ND	3.1	ND	0.45	
108-90-7	Chlorobenzene	ND	3.1	ND	0.66	
100-41-4	Ethylbenzene	**4.7**	3.1	**1.1**	0.70	
179601-23-1	*m,p*-Xylenes	**18**	3.1	**4.2**	0.70	
75-25-2	Bromoform	ND	3.1	ND	0.30	
100-42-5	Styrene	ND	3.1	ND	0.72	
95-47-6	o-Xylene	**8.9**	3.1	**2.0**	0.70	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	ND	0.45	
541-73-1	1,3-Dichlorobenzene	ND	3.1	ND	0.51	
106-46-7	1,4-Dichlorobenzene	ND	3.1	ND	0.51	
95-50-1	1,2-Dichlorobenzene	ND	3.1	ND	0.51	

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: RL Date: 4/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-IBM-21-3-15-07
Client Project ID: WDI

CAS Project ID: P2700782
CAS Sample ID: P2700782-001DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01241

Date Collected: 3/15/07
Date Received: 3/21/07
Date(s) Analyzed: 3/28/07
Volume(s) Analyzed: 0.50 Liter(s)

Pi 1 = -2.8 Pf 1 = 3.5

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	3.1	ND	1.5	
75-01-4	Vinyl Chloride	ND	3.1	ND	1.2	
74-83-9	Bromomethane	ND	3.1	ND	0.79	
75-00-3	Chloroethane	ND	3.1	ND	1.2	
67-64-1	Acetone	**69**	15	**29**	6.4	
75-69-4	Trichlorofluoromethane	**3.5**	3.1	**0.63**	0.54	V
75-35-4	1,1-Dichloroethene	ND	3.1	ND	0.77	
75-09-2	Methylene chloride	ND	3.1	ND	0.88	
76-13-1	Trichlorotrifluoroethane	ND	3.1	ND	0.40	
75-15-0	Carbon Disulfide	ND	3.1	ND	0.98	
156-60-5	trans-1,2-Dichloroethene	ND	3.1	ND	0.77	
75-34-3	1,1-Dichloroethane	ND	3.1	ND	0.76	
1634-04-4	Methyl tert-Butyl Ether	**3.8**	3.1	**1.1**	0.85	
108-05-4	Vinyl Acetate	**11**	3.1	**3.1**	0.87	M
78-93-3	2-Butanone (MEK)	**15**	3.1	**5.1**	1.0	
156-59-2	cis-1,2-Dichloroethene	ND	3.1	ND	0.77	
67-66-3	Chloroform	ND	3.1	ND	0.63	
107-06-2	1,2-Dichloroethane	ND	3.1	ND	0.76	
71-55-6	1,1,1-Trichloroethane	ND	3.1	ND	0.56	
71-43-2	Benzene	ND	3.1	ND	0.96	
56-23-5	Carbon Tetrachloride	ND	3.1	ND	0.49	
78-87-5	1,2-Dichloropropane	ND	3.1	ND	0.66	

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; results may be biased high.
V = The client required closing continuing calibration verification standard was outside (biased high) the method limits for this compound.

Verified By: RG Date: 4/17/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-21-3-15-07**
Client Project ID: **WDI**

CAS Project ID: P2700782
CAS Sample ID: P2700782-001DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01241

Date Collected: 3/15/07
Date Received: 3/21/07
Date(s) Analyzed: 3/28/07
Volume(s) Analyzed: 0.50 Liter(s)

Pi 1 = -2.8 Pf 1 = 3.5

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	3.1	ND	0.46	
79-01-6	Trichloroethene	ND	3.1	ND	0.57	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	ND	0.67	
108-10-1	4-Methyl-2-pentanone	ND	3.1	ND	0.75	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	ND	0.67	
79-00-5	1,1,2-Trichloroethane	ND	3.1	ND	0.56	
108-88-3	Toluene	**240**	3.1	**63**	0.81	
591-78-6	2-Hexanone	ND	3.1	ND	0.75	
124-48-1	Dibromochloromethane	ND	3.1	ND	0.36	
106-93-4	1,2-Dibromoethane	ND	3.1	ND	0.40	
127-18-4	Tetrachloroethene	ND	3.1	ND	0.45	
108-90-7	Chlorobenzene	ND	3.1	ND	0.66	
100-41-4	Ethylbenzene	**3.9**	3.1	**0.89**	0.70	
179601-23-1	*m,p*-Xylenes	**16**	3.1	**3.6**	0.70	
75-25-2	Bromoform	ND	3.1	ND	0.30	
100-42-5	Styrene	ND	3.1	ND	0.72	
95-47-6	o-Xylene	**7.9**	3.1	**1.8**	0.70	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	ND	0.45	
541-73-1	1,3-Dichlorobenzene	ND	3.1	ND	0.51	
106-46-7	1,4-Dichlorobenzene	ND	3.1	ND	0.51	
95-50-1	1,2-Dichlorobenzene	ND	3.1	ND	0.51	

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: 4/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700782
CAS Sample ID: P070328-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 3/28/07
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	V
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	1.0	ND	0.28	
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.
V = The client required closing continuing calibration verification standard was outside (biased high) the method limits for this compound.

Verified By: RG Date: 4/17/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700782
CAS Sample ID: P070328-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 3/28/07
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: 4/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700782

Surrogate Spike Recovery Results

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister(s)
Test Notes:

Date Collected: 3/15/07
Date Received: 3/21/07
Date Analyzed: 3/28/07

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	P070328-MB	90	80-120	99	80-120	106	80-120	
Lab Control Sample	P070328-LCS	97	80-120	98	80-120	106	80-120	
Duplicate Lab Control Sample	P070328-DLCS	95	80-120	97	80-120	106	80-120	
WDI-IBM-21-3-15-07	P2700782-001	92	80-120	98	80-120	105	80-120	
WDI-IBM-21-3-15-07	P2700782-001DUP	91	80-120	98	80-120	106	80-120	

Verified By: RG Date: 4/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700782
CAS Sample ID: P070328-LCS, P070328-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/28/07
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	25.8	20.3	106	84	65-135	23	35	
Vinyl Chloride	24.8	28.2	23.3	114	94	65-135	19	35	
Bromomethane	25.0	26.1	22.8	104	91	65-135	13	35	
Chloroethane	25.0	21.8	21.9	87	88	65-135	1	35	
Acetone	26.5	24.7	21.3	93	80	65-135	15	35	
Trichlorofluoromethane	24.3	26.2	23.6	108	97	65-135	11	35	
1,1-Dichloroethene	27.3	29.5	26.0	108	95	65-135	13	35	
Methylene chloride	26.8	27.5	23.9	103	89	65-135	15	35	
Trichlorotrifluoroethane	27.0	29.4	25.4	109	94	65-135	15	35	
Carbon Disulfide	25.0	26.4	22.7	106	91	65-135	15	35	
trans-1,2-Dichloroethene	26.3	28.5	24.6	108	94	65-135	14	35	
1,1-Dichloroethane	26.3	28.3	25.3	108	96	65-135	12	35	
Methyl tert-Butyl Ether	26.3	29.2	24.8	111	94	65-135	17	35	
Vinyl Acetate	24.3	29.2	25.2	120	104	65-135	14	35	
2-Butanone (MEK)	26.8	28.7	24.8	107	93	65-135	14	35	
cis-1,2-Dichloroethene	26.5	28.6	24.9	108	94	65-135	14	35	
Chloroform	30.0	29.9	26.4	100	88	65-135	13	35	
1,2-Dichloroethane	26.0	28.7	25.1	110	97	65-135	13	35	
1,1,1-Trichloroethane	26.3	29.4	24.9	112	95	65-135	16	35	
Benzene	26.3	28.5	24.5	108	93	65-135	15	35	
Carbon Tetrachloride	25.8	29.2	25.1	113	97	65-135	15	35	
1,2-Dichloropropane	26.0	28.2	24.3	108	93	65-135	15	35	

Verified By: Rc Date: 4/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700782
CAS Sample ID: P070328-LCS, P070328-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/28/07
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	30.2	25.8	110	94	65-135	16	35	
Trichloroethene	27.3	29.8	26.1	109	96	65-135	13	35	
cis-1,3-Dichloropropene	26.0	28.0	23.7	108	91	65-135	17	35	
4-Methyl-2-pentanone	26.5	31.1	26.2	117	99	65-135	17	35	
trans-1,3-Dichloropropene	27.8	31.7	26.7	114	96	65-135	17	35	
1,1,2-Trichloroethane	25.8	29.2	24.9	113	97	65-135	15	35	
Toluene	26.0	27.8	23.8	107	92	65-135	15	35	
2-Hexanone	26.0	28.9	24.4	111	94	65-135	17	35	
Dibromochloromethane	26.5	29.9	25.4	113	96	65-135	16	35	
1,2-Dibromoethane	26.0	28.8	24.9	111	96	65-135	14	35	
Tetrachloroethene	25.8	28.6	24.1	111	93	65-135	18	35	
Chlorobenzene	26.0	28.0	24.0	108	92	65-135	16	35	
Ethylbenzene	25.8	28.4	24.1	110	93	65-135	17	35	
m,p-Xylenes	61.5	67.7	57.5	110	93	65-135	17	35	
Bromoform	31.3	34.7	29.7	111	95	65-135	16	35	
Styrene	25.8	29.7	25.4	115	98	65-135	16	35	
o-Xylene	29.0	32.1	27.2	111	94	65-135	17	35	
1,1,2,2-Tetrachloroethane	29.3	32.1	27.3	110	93	65-135	17	35	
1,3-Dichlorobenzene	25.3	29.0	24.7	115	98	65-135	16	35	
1,4-Dichlorobenzene	26.0	29.9	25.3	115	97	65-135	17	35	
1,2-Dichlorobenzene	25.5	29.2	25.2	115	99	65-135	15	35	

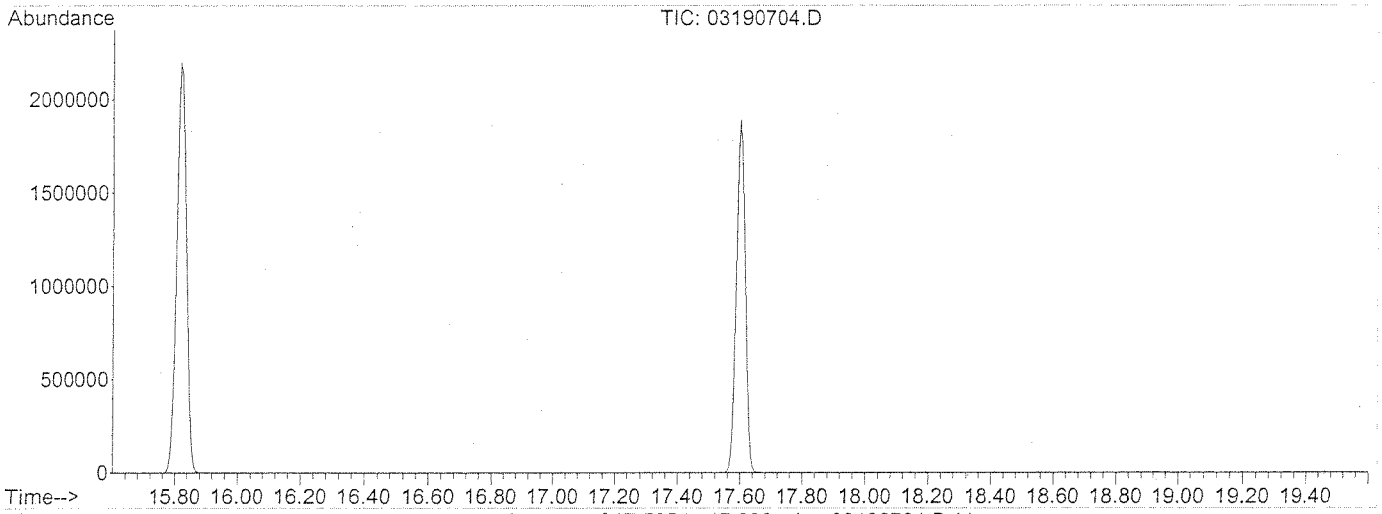
Verified By: Rc Date: 4/4/07

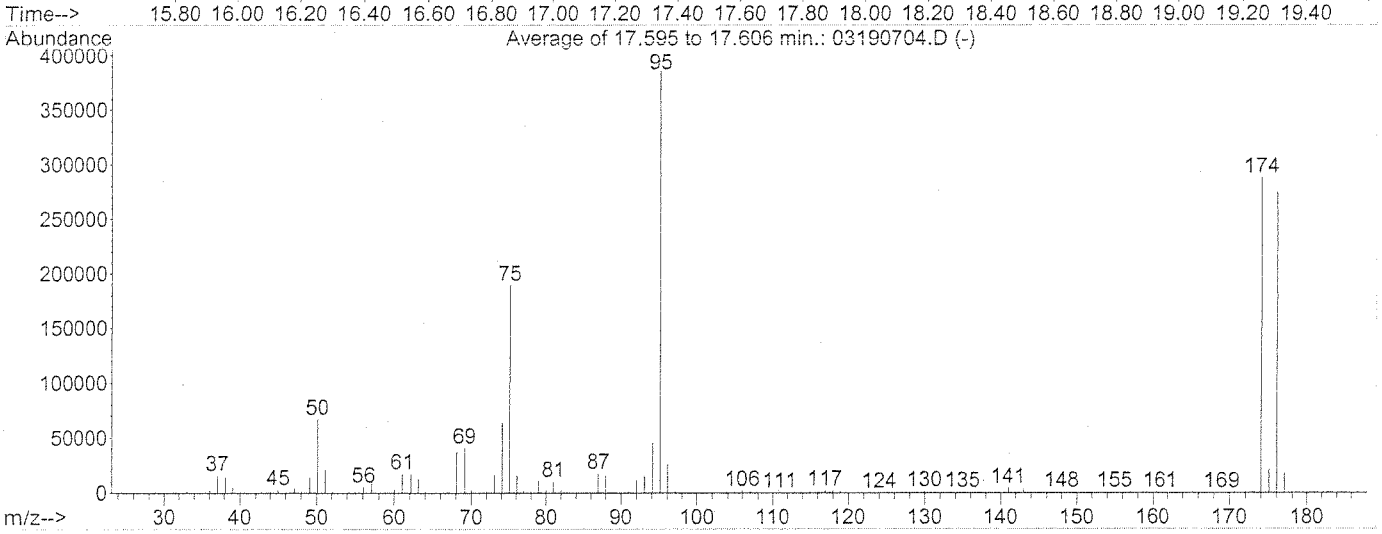
Data Path : J:\MS08\Data\2007_03\19\
Data File : 03190704.D
Acq On : 19 Mar 2007 11:38
Operator : LM/SC
Sample : 25ng BFB STD
Misc : S15-03150704
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

ICal

Method : J:\MS08\METHODS\R8031907.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Mar 19 16:14:30 2007





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2490

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.3	66738	PASS
75	95	30	66	49.1	189482	PASS
95	95	100	100	100.0	385685	PASS
96	95	5	9	6.7	25709	PASS
173	174	0.00	2	0.4	1075	PASS
174	95	50	120	74.6	287808	PASS
175	174	4	9	7.4	21280	PASS
176	174	93	101	95.4	274624	PASS
177	176	5	9	6.5	17924	PASS

3/19/07
LM 3/20/07

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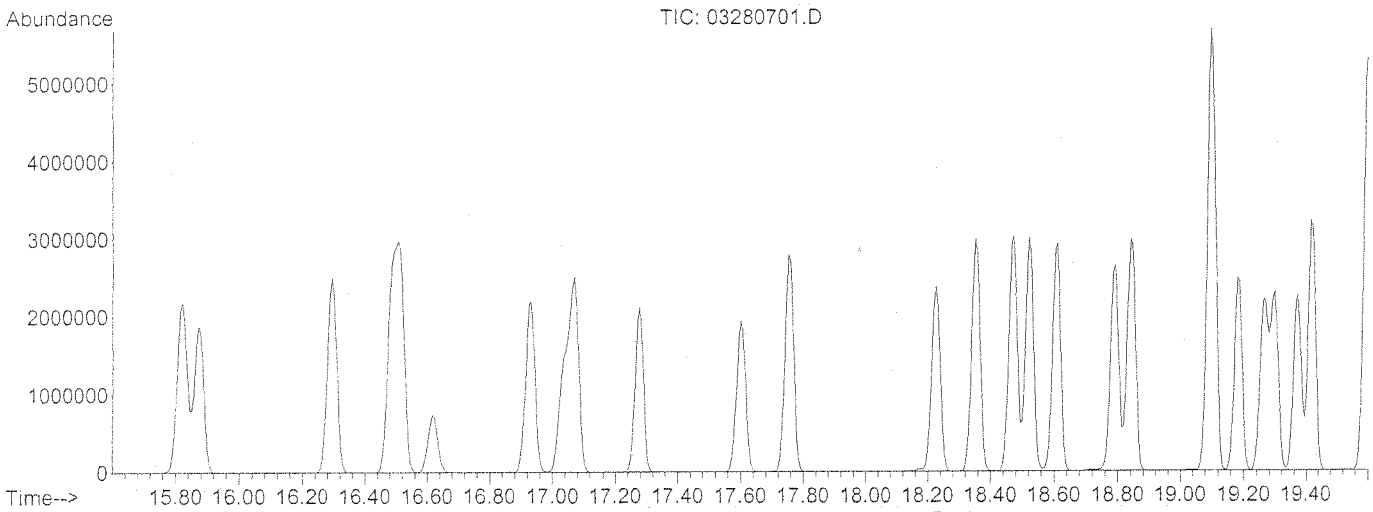
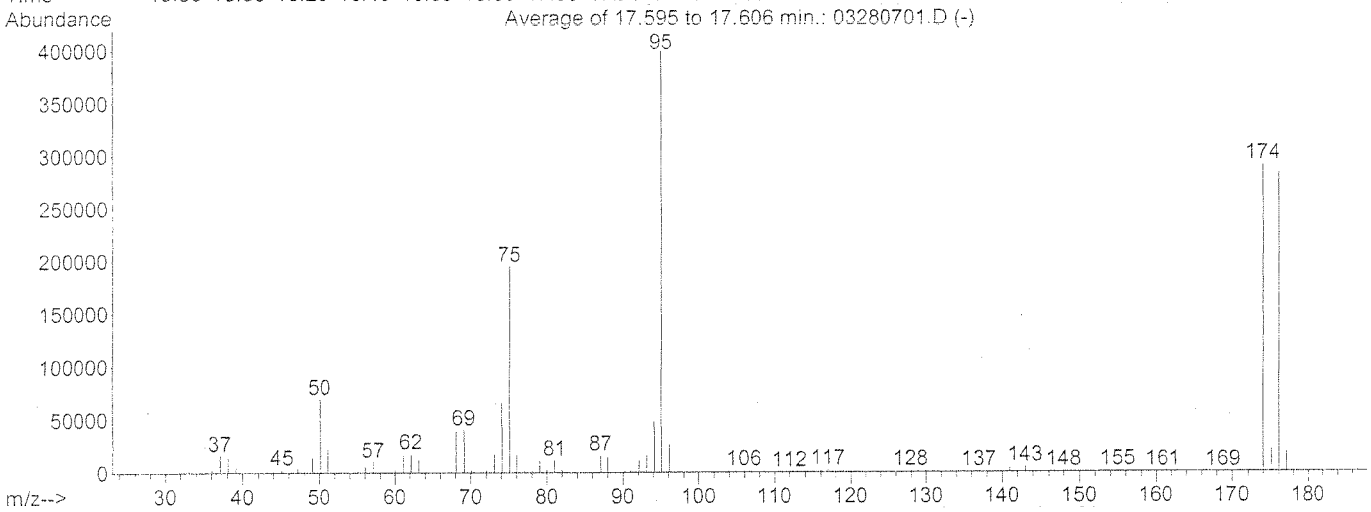
BFB

Data Path : J:\MS08\Data\2007_03\28\
Data File : 03280701.D
Acq On : 28 Mar 2007 9:03
Operator : LM/SC
Sample : 25ng TO-15 CCV STD
Misc : S15-03150704/S15-03070705
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8031907.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Mar 19 16:14:30 2007





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2490

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.3	69298	PASS
75	95	30	66	48.8	195008	PASS
95	95	100	100	100.0	399722	PASS
96	95	5	9	6.6	26285	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	72.8	290944	PASS
175	174	4	9	7.4	21610	PASS
176	174	93	101	97.6	283925	PASS
177	176	5	9	6.7	18904	PASS

3/28/07
LM 4/3/07

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Response Factor Report MS08

Method Path : J:\MS08\METHODS\
Method File : R8031907.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Mar 19 16:14:30 2007
Response Via : Initial Calibration

Calibration Files
0.5 =03190705.D 1 =03190706.D 5 =03190707.D 25 =03190708.D
50 =03190709.D 100 =03190710.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I	----------ISTD----------							
2)	T	Propene	1.747	1.515	1.412	1.389	1.311	1.268	1.440	11.99
3)	T	Dichlorodifluorom	3.707	3.385	3.029	2.989	2.823	2.755	3.114	11.68
4)	T	Chloromethane	2.564	2.363	2.245	2.198	1.958	1.863	2.199	11.74
5)	T	Freon 114	1.107	1.057	0.927	0.927	0.893	0.821	0.955	11.20
6)	T	Vinyl Chloride	2.185	2.070	1.927	1.848	1.793	1.626	1.908	10.47
7)	T	1,3-Butadiene	1.548	1.422	1.391	1.405	1.373	1.258	1.400	6.64
8)	T	Bromomethane	1.418	1.163	1.062	1.129	1.093	1.108	1.162	11.19
9)	T	Chloroethane	1.310	1.207	1.095	1.067	1.031	1.026	1.123	10.07
10)	T	Ethanol	1.306	1.052	0.870	0.954	0.940	0.939	1.010	15.48
11)	T	Acetonitrile	2.734	2.462	2.291	2.544	2.439	2.422	2.482	5.97
12)	T	Acrolein	0.869	0.711	0.799	0.832	0.810	0.809	0.805	6.52
13)	T	Acetone	1.683	1.493	1.315	1.102	1.062	1.055	1.285	20.26
14)	T	Trichlorofluorome	2.422	2.253	2.054	2.082	2.031	2.036	2.146	7.40
15)	T	Isopropanol	3.971	3.794	3.246	3.234	2.904	2.803	3.325	14.11
16)	T	Acrylonitrile	1.949	1.703	1.668	1.750	1.701	1.692	1.744	5.97
17)	T	1,1-Dichloroethen	1.501	1.331	1.277	1.299	1.255	1.240	1.317	7.25
18)	T	tert-Butanol	3.868	3.602	3.419	3.208	2.977	2.390	3.244	16.02
19)	T	Methylene Chlorid	1.942	1.649	1.474	1.418	1.381	1.378	1.540	14.35
20)	T	Allyl Chloride	1.621	1.504	1.530	1.736	1.687	1.694	1.629	5.80
21)	T	Trichlorotrifluor	1.328	1.203	1.081	1.107	1.085	1.080	1.147	8.73
22)	T	Carbon Disulfide	7.386	6.215	5.440	5.339	5.156	5.049	5.764	15.52
23)	T	trans-1,2-Dichlor	2.283	2.193	1.986	2.044	1.980	1.953	2.073	6.47
24)	T	1,1-Dichloroethan	2.436	2.226	2.039	2.058	1.953	1.849	2.093	9.99
25)	T	Methyl tert-Butyl	4.802	4.473	4.302	4.283	4.146	4.009	4.336	6.38
26)	T	Vinyl Acetate	0.240	0.238	0.297	0.323	0.323	0.329	0.292	14.57
27)	T	2-Butanone	1.086	1.033	0.990	0.967	0.943	0.913	0.989	6.37
28)	T	cis-1,2-Dichloroe	2.126	1.959	1.841	1.853	1.800	1.784	1.894	6.82
29)	T	Diisopropyl Ether	1.316	1.199	1.162	1.130	1.081	1.035	1.154	8.53
30)	T	Ethyl Acetate	0.524	0.495	0.488	0.478	0.454	0.424	0.477	7.22
31)	T	n-Hexane	2.617	2.368	2.229	2.194	2.139	2.054	2.267	8.84
32)	T	Chloroform	2.707	2.380	2.027	1.984	1.888	1.831	2.136	15.88
33)	S	1,2-Dichloroethan	1.806	1.814	1.751	1.778	1.715	1.718	1.764	2.43
34)	T	Tetrahydrofuran	1.013	0.953	0.919	0.910	0.789	0.701	0.881	13.04
35)	T	Ethyl tert-Butyl	1.891	1.740	1.696	1.684	1.653	1.611	1.712	5.71
36)	T	1,2-Dichloroethan	2.205	2.133	1.930	1.937	1.876	1.740	1.970	8.67
37)	IR	1,4-Difluorobenzene (	----------ISTD----------							
38)	T	1,1,1-Trichloroet	0.573	0.538	0.502	0.516	0.492	0.494	0.519	6.03
39)	T	Isopropyl Acetate	0.206	0.203	0.189	0.198	0.186	0.178	0.193	5.57
40)	T	1-Butanol	0.203	0.176	0.189	0.264	0.252	0.241	0.221	16.42
41)	T	Benzene	1.437	1.283	1.189	1.199	1.129	1.101	1.223	10.02
42)	T	Carbon Tetrachlor	0.398	0.368	0.385	0.424	0.412	0.406	0.399	5.00
43)	T	Cyclohexane	0.579	0.513	0.465	0.458	0.435	0.418	0.478	12.37
44)	T	tert-Amyl Methyl	1.006	0.909	0.870	0.888	0.852	0.836	0.894	6.81
45)	T	1,2-Dichloropropa	0.344	0.325	0.292	0.299	0.285	0.278	0.304	8.37
46)	T	Bromodichlorometh	0.468	0.431	0.403	0.420	0.401	0.395	0.420	6.46
47)	T	Trichloroethene	0.351	0.329	0.298	0.297	0.283	0.272	0.305	9.73
48)	T	1,4-Dioxane	0.248	0.237	0.222	0.232	0.221	0.210	0.228	5.83
49)	T	Isooctane	1.389	1.286	1.190	1.187	1.114	1.057	1.204	9.89
50)	T	Methyl Methacryla	0.119	0.108	0.118	0.125	0.120	0.117	0.118	4.83
51)	T	n-Heptane	0.331	0.324	0.300	0.301	0.288	0.277	0.303	6.82
52)	T	cis-1,3-Dichlorop	0.547	0.503	0.497	0.510	0.479	0.459	0.499	5.93
53)	T	4-Methyl-2-pentan	0.265	0.262	0.259	0.270	0.255	0.241	0.259	3.90
54)	T	trans-1,3-Dichlor	0.497	0.458	0.455	0.475	0.457	0.450	0.465	3.77
55)	T	1,1,2-Trichloroet	0.346	0.309	0.290	0.298	0.287	0.281	0.302	7.80
56)	I	Chlorobenzene-d5 (IS3	----------ISTD----------							
57)	S	Toluene-d8 (SS2)	2.167	2.189	2.166	2.160	2.157	2.166	2.168	0.52

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Method Path : J:\MS08\METHODS\
Method File : R8031907.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Mon Mar 19 16:14:30 2007
Response Via : Initial Calibration

Calibration Files
0.5 =03190705.D 1 =03190706.D 5 =03190707.D 25 =03190708.D
50 =03190709.D 100 =03190710.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
58)	T	Toluene	2.942	2.709	2.461	2.427	2.264	2.114	2.486	12.06
59)	T	2-Hexanone	1.336	1.331	1.288	1.302	1.220	1.159	1.273	5.46
60)	T	Dibromochlorometh	0.714	0.686	0.647	0.665	0.637	0.606	0.659	5.81
61)	T	1,2-Dibromoethane	0.764	0.686	0.674	0.687	0.655	0.624	0.682	6.81
62)	T	Butyl Acetate	1.411	1.343	1.398	1.460	1.375	1.290	1.380	4.26
63)	T	n-Octane	0.556	0.534	0.502	0.493	0.457	0.422	0.494	9.90
64)	T	Tetrachloroethene	0.664	0.650	0.588	0.586	0.556	0.522	0.594	9.11
65)	T	Chlorobenzene	1.910	1.724	1.564	1.549	1.458	1.373	1.596	12.13
66)	T	Ethylbenzene	3.173	2.978	2.842	2.835	2.655	2.461	2.824	8.77
67)	T	m- & p-Xylene	2.089	1.949	1.827	1.819	1.691	1.562	1.823	10.18
68)	T	Bromoform	0.422	0.423	0.416	0.441	0.421	0.400	0.420	3.10
69)	T	Styrene	1.742	1.658	1.665	1.699	1.590	1.464	1.636	6.00
70)	T	o-Xylene	2.257	2.060	1.982	1.968	1.825	1.684	1.963	10.02
71)	T	n-Nonane	1.210	1.183	1.100	1.109	1.018	0.927	1.091	9.66
72)	T	1,1,2,2-Tetrachlo	0.988	0.973	0.935	0.951	0.875	0.802	0.921	7.60
73)	S	Bromofluorobenzen	0.662	0.649	0.666	0.668	0.661	0.660	0.661	1.01
74)	T	Cumene	2.942	2.721	2.615	2.653	2.439	2.235	2.601	9.32
75)	T	alpha-Pinene	1.405	1.413	1.366	1.405	1.316	1.226	1.355	5.38
76)	T	n-Propylbenzene	3.701	3.661	3.445	3.486	3.206	2.911	3.402	8.77
77)	T	3-Ethyltoluene	3.039	2.915	2.806	2.857	2.661	2.449	2.788	7.45
78)	T	4-Ethyltoluene	2.759	2.755	2.668	2.641	2.391	2.172	2.564	9.15
79)	T	1,3,5-Trimethylbe	2.300	2.396	2.311	2.305	2.125	1.958	2.233	7.21
80)	T	alpha-Methylstyre	1.077	1.119	1.172	1.263	1.161	1.060	1.142	6.49
81)	T	2-Ethyltoluene	2.930	3.017	2.848	2.888	2.638	2.400	2.787	8.18
82)	T	1,2,4-Trimethylbe	2.180	2.359	2.325	2.282	2.070	1.907	2.187	7.91
83)	T	n-Decane	1.096	1.213	1.163	1.166	1.064	0.960	1.110	8.20
84)	T	Benzyl Chloride	1.803	2.018	2.145	2.248	2.091	1.942	2.041	7.70
85)	T	1,3-Dichlorobenze	1.229	1.339	1.274	1.286	1.169	1.043	1.224	8.61
86)	T	1,4-Dichlorobenze	1.252	1.282	1.243	1.253	1.142	1.023	1.199	8.24
87)	T	sec-Butylbenzene	3.052	3.210	3.107	3.117	2.800	2.471	2.960	9.33
88)	T	p-Isopropyltoluen	2.273	2.542	2.470	2.471	2.208	1.986	2.325	9.04
89)	T	1,2,3-Trimethylbe	2.011	2.285	2.225	2.230	2.020	1.835	2.101	8.28
90)	T	1,2-Dichlorobenze	1.126	1.213	1.185	1.187	1.062	0.924	1.116	9.75
91)	T	d-Limonene	0.721	0.842	0.885	0.894	0.808	0.736	0.814	9.03
92)	T	1,2-Dibromo-3-Chl	0.226	0.285	0.373	0.453	0.426	0.400	0.360	24.33
93)	T	n-Undecane	0.572	0.830	0.913	0.966	0.888	0.800	0.828	16.74
94)	T	1,2,4-Trichlorobe	0.100	0.162	0.230	0.258	0.245	0.223	0.203	29.61
95)	T	Naphthalene	0.974	1.703	2.314	2.813	2.631	2.367	2.134	31.96
96)	T	n-Dodecane	0.382	0.558	0.683	0.766	0.690	0.603	0.613	21.96
97)	T	Hexachloro-1,3-bu	0.180	0.250	0.352	0.427	0.406	0.378	0.332	29.18

(#) = Out of Range

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2007_03\28\
Data File : 03280701.D
Acq On : 28 Mar 2007 9:03
Operator : LM/SC
Sample : 25ng TO-15 CCV STD
Misc : S15-03150704/S15-03070705
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 09:32:22 2007
Quant Method : J:\MS08\METHODS\R8031907.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Mon Mar 19 16:14:30 2007
Response via : Initial 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	108	0.00
2	T	Propene	1.440	1.220	15.3	95	0.00
3	T	Dichlorodifluoromethane	3.114	2.749	11.7	100	0.00
4	T	Chloromethane	2.199	1.959	10.9	96	0.00
5	T	Freon 114	0.955	0.930	2.6	109	0.00
6	T	Vinyl Chloride	1.908	1.725	9.6	101	0.00
7	T	1,3-Butadiene	1.400	1.277	8.8	98	0.00
8	T	Bromomethane	1.162	1.046	10.0	100	0.00
9	T	Chloroethane	1.123	0.977	13.0	99	0.00
10	T	Ethanol	1.010	0.856	15.2	97	0.00
11	T	Acetonitrile	2.482	2.189	11.8	93	0.00
12	T	Acrolein	0.805	0.726	9.8	94	0.00
13	T	Acetone	1.285	0.980	23.7	96	0.00
14	T	Trichlorofluoromethane	2.146	1.941	9.6	101	0.00
15	T	Isopropanol	3.325	2.778	16.5	93	0.00
16	T	Acrylonitrile	1.744	1.551	11.1	96	0.00
17	T	1,1-Dichloroethene	1.317	1.174	10.9	98	0.00
18	T	tert-Butanol	3.244	2.988	7.9	101	0.00
19	T	Methylene Chloride	1.540	1.290	16.2	98	0.00
20	T	Allyl Chloride	1.629	1.494	8.3	93	0.00
21	T	Trichlorotrifluoroethane	1.147	1.030	10.2	101	0.00
22	T	Carbon Disulfide	5.764	4.893	15.1	99	0.00
23	T	trans-1,2-Dichloroethene	2.073	1.836	11.4	97	0.00
24	T	1,1-Dichloroethane	2.093	1.845	11.8	97	0.00
25	T	Methyl tert-Butyl Ether	4.336	3.891	10.3	98	0.00
26	T	Vinyl Acetate	0.292	0.316	-8.2	106	0.00
27	T	2-Butanone	0.989	0.883	10.7	99	0.00
28	T	cis-1,2-Dichloroethene	1.894	1.677	11.5	98	0.00
29	T	Diisopropyl Ether	1.154	1.032	10.6	99	0.00
30	T	Ethyl Acetate	0.477	0.419	12.2	95	0.00
31	T	n-Hexane	2.267	1.900	16.2	94	0.00
32	T	Chloroform	2.136	1.832	14.2	100	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.764	1.772	-0.5	108	0.00
34	T	Tetrahydrofuran	0.881	0.797	9.5	95	0.00
35	T	Ethyl tert-Butyl Ether	1.712	1.566	8.5	101	0.00
36	T	1,2-Dichloroethane	1.970	1.798	8.7	100	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	110	0.00
38	T	1,1,1-Trichloroethane	0.519	0.472	9.1	100	0.00
39	T	Isopropyl Acetate	0.193	0.174	9.8	97	0.00
40	T	1-Butanol	0.221	0.228	-3.2	95	0.00
41	T	Benzene	1.223	1.071	12.4	98	0.00
42	T	Carbon Tetrachloride	0.399	0.388	2.8	101	0.00
43	T	Cyclohexane	0.478	0.412	13.8	99	0.00
44	T	tert-Amyl Methyl Ether	0.894	0.803	10.2	99	0.00
45	T	1,2-Dichloropropane	0.304	0.265	12.8	98	0.00
46	T	Bromodichloromethane	0.420	0.380	9.5	99	0.00
47	T	Trichloroethene	0.305	0.276	9.5	102	0.00
48	T	1,4-Dioxane	0.228	0.210	7.9	99	0.00
49	T	Isooctane	1.204	1.033	14.2	96	0.00
50	T	Methyl Methacrylate	0.118	0.116	1.7	102	0.00
51	T	n-Heptane	0.303	0.272	10.2	99	0.00

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1/14/13/07

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2007_03\28\
Data File : 03280701.D
Acq On : 28 Mar 2007 9:03
Operator : LM/SC
Sample : 25ng TO-15 CCV STD
Misc : S15-03150704/S15-03070705
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 09:32:22 2007
Quant Method : J:\MS08\METHODS\R8031907.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Mon Mar 19 16:14:30 2007
Response via : Initial 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)
52	T	cis-1,3-Dichloropropene	0.499	0.454	9.0	98	0.00
53	T	4-Methyl-2-pentanone	0.259	0.237	8.5	96	0.00
54	T	trans-1,3-Dichloropropene	0.465	0.426	8.4	99	0.00
55	T	1,1,2-Trichloroethane	0.302	0.272	9.9	100	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	110	0.00
57	S	Toluene-d8 (SS2)	2.168	2.136	1.5	109	0.00
58	T	Toluene	2.486	2.191	11.9	99	0.00
59	T	2-Hexanone	1.273	1.124	11.7	95	0.00
60	T	Dibromochloromethane	0.659	0.609	7.6	101	0.00
61	T	1,2-Dibromoethane	0.682	0.623	8.7	100	0.00
62	T	Butyl Acetate	1.380	1.244	9.9	94	0.00
63	T	n-Octane	0.494	0.430	13.0	96	0.00
64	T	Tetrachloroethene	0.594	0.546	8.1	103	0.00
65	T	Chlorobenzene	1.596	1.440	9.8	102	0.00
66	T	Ethylbenzene	2.824	2.580	8.6	100	0.00
67	T	m- & p-Xylene	1.823	1.653	9.3	100	0.00
68	T	Bromoform	0.420	0.408	2.9	102	0.00
69	T	Styrene	1.636	1.539	5.9	100	0.00
70	T	o-Xylene	1.963	1.779	9.4	100	0.00
71	T	n-Nonane	1.091	0.950	12.9	94	0.00
72	T	1,1,2,2-Tetrachloroethane	0.921	0.846	8.1	98	0.00
73	S	Bromofluorobenzene (SS3)	0.661	0.687	-3.9	113	0.00
74	T	Cumene	2.601	2.396	7.9	99	0.00
75	T	alpha-Pinene	1.355	1.258	7.2	99	0.00
76	T	n-Propylbenzene	3.402	3.116	8.4	98	0.00
77	T	3-Ethyltoluene	2.788	2.543	8.8	98	0.00
78	T	4-Ethyltoluene	2.564	2.410	6.0	101	0.00
79	T	1,3,5-Trimethylbenzene	2.233	2.079	6.9	99	0.00
80	T	alpha-Methylstyrene	1.142	1.118	2.1	97	0.00
81	T	2-Ethyltoluene	2.787	2.602	6.6	99	0.00
82	T	1,2,4-Trimethylbenzene	2.187	2.040	6.7	98	0.00
83	T	n-Decane	1.110	1.007	9.3	95	0.00
84	T	Benzyl Chloride	2.041	1.995	2.3	98	0.00
85	T	1,3-Dichlorobenzene	1.224	1.158	5.4	99	0.00
86	T	1,4-Dichlorobenzene	1.199	1.124	6.3	99	0.00
87	T	sec-Butylbenzene	2.960	2.771	6.4	98	0.00
88	T	p-Isopropyltoluene	2.325	2.209	5.0	98	0.00
89	T	1,2,3-Trimethylbenzene	2.101	1.983	5.6	98	0.00
90	T	1,2-Dichlorobenzene	1.116	1.052	5.7	98	0.00
91	T	d-Limonene	0.814	0.751	7.7	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.360	0.411	-14.2	100	0.00
93	T	n-Undecane	0.828	0.833	-0.6	95	0.00
94	T	1,2,4-Trichlorobenzene	0.203	0.237	-16.7	101	0.00
95	T	Naphthalene	2.134	2.548	-19.4	100	0.00
96	T	n-Dodecane	0.613	0.673	-9.8	97	0.00
97	T	Hexachloro-1,3-butadiene	0.332	0.391	-17.8	101	0.00

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

3/28/07
(MM 4/3/07)

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2007_03\28\
Data File : 03280703.D
Acq On : 28 Mar 2007 10:30
Operator : LM/SC
Sample : ing TO-15 CCV STD
Misc : S15-03150704/S15-03070703
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 10:57:29 2007
Quant Method : J:\MS08\METHODS\R8031907.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Mon Mar 19 16:14:30 2007
Response via : Initial 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	97	-0.03
2	T	Propene	1.440	1.363	5.3	87	0.03
3	T	Dichlorodifluoromethane	3.114	3.143	-0.9	90	0.02
4	T	Chloromethane	2.199	2.101	4.5	86	0.01
5	T	Freon 114	0.955	1.043	-9.2	96	0.01
6	T	Vinyl Chloride	1.908	2.013	-5.5	95	0.01
7	T	1,3-Butadiene	1.400	1.441	-2.9	99	0.00
8	T	Bromomethane	1.162	1.075	7.5	90	0.00
9	T	Chloroethane	1.123	1.097	2.3	88	0.00
10	T	Ethanol	1.010	0.878	13.1	81	-0.02
11	T	Acetonitrile	2.482	2.235	10.0	88	-0.01
12	T	Acrolein	0.805	0.733	8.9	100	0.00
13	T	Acetone	1.285	1.502	-16.9	98	-0.02
14	T	Trichlorofluoromethane	2.146	2.136	0.5	92	-0.01
15	T	Isopropanol	3.325	3.400	-2.3	87	-0.03
16	T	Acrylonitrile	1.744	1.589	8.9	91	-0.02
17	T	1,1-Dichloroethene	1.317	1.282	2.7	94	0.00
18	T	tert-Butanol	3.244	3.446	-6.2	93	0.07
19	T	Methylene Chloride	1.540	1.570	-1.9	93	-0.02
20	T	Allyl Chloride	1.629	1.420	12.8	92	-0.01
21	T	Trichlorotrifluoroethane	1.147	1.188	-3.6	96	0.00
22	T	Carbon Disulfide	5.764	6.010	-4.3	94	0.00
23	T	trans-1,2-Dichloroethene	2.073	1.955	5.7	87	-0.02
24	T	1,1-Dichloroethane	2.093	2.041	2.5	89	-0.03
25	T	Methyl tert-Butyl Ether	4.336	4.153	4.2	90	0.00
26	T	Vinyl Acetate	0.292	0.286	2.1	117	-0.02
27	T	2-Butanone	0.989	0.976	1.3	92	-0.01
28	T	cis-1,2-Dichloroethene	1.894	1.870	1.3	93	-0.03
29	T	Diisopropyl Ether	1.154	1.166	-1.0	95	-0.01
30	T	Ethyl Acetate	0.477	0.463	2.9	91	-0.02
31	T	n-Hexane	2.267	2.246	0.9	92	-0.02
32	T	Chloroform	2.136	2.220	-3.9	91	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.764	1.830	-3.7	98	-0.02
34	T	Tetrahydrofuran	0.881	0.934	-6.0	95	0.00
35	T	Ethyl tert-Butyl Ether	1.712	1.657	3.2	93	-0.01
36	T	1,2-Dichloroethane	1.970	1.898	3.7	87	-0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	98	-0.02
38	T	1,1,1-Trichloroethane	0.519	0.492	5.2	90	-0.02
39	T	Isopropyl Acetate	0.193	0.177	8.3	86	0.00
40	T	1-Butanol	0.221	0.184	16.7	103	0.03
41	T	Benzene	1.223	1.179	3.6	90	-0.02
42	T	Carbon Tetrachloride	0.399	0.327	18.0	87	-0.02
43	T	Cyclohexane	0.478	0.470	1.7	90	-0.02
44	T	tert-Amyl Methyl Ether	0.894	0.847	5.3	92	0.00
45	T	1,2-Dichloropropane	0.304	0.282	7.2	86	-0.02
46	T	Bromodichloromethane	0.420	0.378	10.0	86	-0.02
47	T	Trichloroethene	0.305	0.301	1.3	90	-0.02
48	T	1,4-Dioxane	0.228	0.220	3.5	91	0.00
49	T	Isooctane	1.204	1.193	0.9	91	-0.02
50	T	Methyl Methacrylate	0.118	0.110	6.8	100	0.00
51	T	n-Heptane	0.303	0.289	4.6	88	-0.01

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LM 4/13/07

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2007_03\28\
Data File : 03280703.D
Acq On : 28 Mar 2007 10:30
Operator : LM/SC
Sample : 1ng TO-15 CCV STD
Misc : S15-03150704/S15-03070703
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 10:57:29 2007
Quant Method : J:\MS08\METHODS\R8031907.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Mon Mar 19 16:14:30 2007
Response via : Initial 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)
52	T	cis-1,3-Dichloropropene	0.499	0.473	5.2	93	0.00
53	T	4-Methyl-2-pentanone	0.259	0.246	5.0	92	0.00
54	T	trans-1,3-Dichloropropene	0.465	0.430	7.5	92	0.00
55	T	1,1,2-Trichloroethane	0.302	0.293	3.0	93	-0.01
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	102	0.00
57	S	Toluene-d8 (SS2)	2.168	2.124	2.0	99	-0.01
58	T	Toluene	2.486	2.467	0.8	93	-0.01
59	T	2-Hexanone	1.273	1.194	6.2	91	-0.01
60	T	Dibromochloromethane	0.659	0.615	6.7	91	-0.01
61	T	1,2-Dibromoethane	0.682	0.658	3.5	98	0.00
62	T	Butyl Acetate	1.380	1.327	3.8	101	0.00
63	T	n-Octane	0.494	0.521	-5.5	100	-0.01
64	T	Tetrachloroethene	0.594	0.595	-0.2	93	0.00
65	T	Chlorobenzene	1.596	1.552	2.8	92	-0.01
66	T	Ethylbenzene	2.824	2.746	2.8	94	-0.01
67	T	m- & p-Xylene	1.823	1.784	2.1	93	-0.02
68	T	Bromoform	0.420	0.387	7.9	93	-0.01
69	T	Styrene	1.636	1.576	3.7	97	0.00
70	T	o-Xylene	1.963	1.964	-0.1	97	-0.01
71	T	n-Nonane	1.091	1.055	3.3	91	0.00
72	T	1,1,2,2-Tetrachloroethane	0.921	0.906	1.6	95	-0.01
73	S	Bromofluorobenzene (SS3)	0.661	0.707	-7.0	111	0.00
74	T	Cumene	2.601	2.622	-0.8	98	0.00
75	T	alpha-Pinene	1.355	1.285	5.2	93	-0.01
76	T	n-Propylbenzene	3.402	3.417	-0.4	95	0.00
77	T	3-Ethyltoluene	2.788	2.789	-0.0	98	0.00
78	T	4-Ethyltoluene	2.564	2.599	-1.4	96	-0.01
79	T	1,3,5-Trimethylbenzene	2.233	2.290	-2.6	98	0.00
80	T	alpha-Methylstyrene	1.142	1.132	0.9	103	0.00
81	T	2-Ethyltoluene	2.787	2.854	-2.4	97	-0.01
82	T	1,2,4-Trimethylbenzene	2.187	2.308	-5.5	100	-0.01
83	T	n-Decane	1.110	1.121	-1.0	94	-0.01
84	T	Benzyl Chloride	2.041	1.954	4.3	99	0.00
85	T	1,3-Dichlorobenzene	1.224	1.287	-5.1	98	-0.01
86	T	1,4-Dichlorobenzene	1.199	1.247	-4.0	99	0.00
87	T	sec-Butylbenzene	2.960	3.112	-5.1	99	0.00
88	T	p-Isopropyltoluene	2.325	2.523	-8.5	101	-0.01
89	T	1,2,3-Trimethylbenzene	2.101	2.265	-7.8	101	0.00
90	T	1,2-Dichlorobenzene	1.116	1.204	-7.9	101	0.00
91	T	d-Limonene	0.814	0.822	-1.0	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.360	0.342	5.0	123	0.00
93	T	n-Undecane	0.828	0.984	-18.8	121	0.00
94	T	1,2,4-Trichlorobenzene	0.203	0.262	-29.1	165	0.00
95	T	Naphthalene	2.134	2.748	~~-28.8~~	165	0.00
96	T	n-Dodecane	0.613	1.052	-71.6#	192	0.00
97	T	Hexachloro-1,3-butadiene	0.332	0.395	-19.0	161	0.00

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

3/28/07

LM 4/3/07

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2007_03\28\
Data File : 03280717.D
Acq On : 28 Mar 2007 20:15
Operator : LM/SC
Sample : 25ng TO-15 CCV STD
Misc : S15-03150704/S15-03070705
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 29 09:17:13 2007
Quant Method : J:\MS08\METHODS\R8031907.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Mon Mar 19 16:14:30 2007
Response via : Initial 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	105	0.00
2	T	Propene	1.440	1.108	23.1	84	0.00
3	T	Dichlorodifluoromethane	3.114	2.574	17.3	91	0.00
4	T	Chloromethane	2.199	1.699	22.7	81	0.00
5	T	Freon 114	0.955	0.873	8.6	99	0.00
6	T	Vinyl Chloride	1.908	1.707	10.5	97	0.00
7	T	1,3-Butadiene	1.400	1.300	7.1	97	0.00
8	T	Bromomethane	1.162	1.057	9.0	99	0.00
9	T	Chloroethane	1.123	0.940	16.3	93	0.00
10	T	Ethanol	1.010	0.820	18.8	90	0.00
11	T	Acetonitrile	2.482	2.097	15.5	87	0.00
12	T	Acrolein	0.805	0.724	10.1	92	0.00
13	T	Acetone	1.285	0.963	~~25.1~~	92	0.00
14	T	Trichlorofluoromethane	2.146	3.668	-70.9#	185	0.00
15	T	Isopropanol	3.325	2.677	19.5	87	0.00
16	T	Acrylonitrile	1.744	1.533	12.1	92	0.00
17	T	1,1-Dichloroethene	1.317	1.174	10.9	95	0.00
18	T	tert-Butanol	3.244	2.901	10.6	95	0.00
19	T	Methylene Chloride	1.540	1.307	15.1	97	0.00
20	T	Allyl Chloride	1.629	1.469	9.8	89	0.00
21	T	Trichlorotrifluoroethane	1.147	1.054	8.1	100	0.00
22	T	Carbon Disulfide	5.764	4.815	16.5	95	0.00
23	T	trans-1,2-Dichloroethene	2.073	1.822	12.1	94	0.00
24	T	1,1-Dichloroethane	2.093	1.824	12.9	93	0.00
25	T	Methyl tert-Butyl Ether	4.336	3.888	10.3	96	0.00
26	T	Vinyl Acetate	0.292	0.316	-8.2	103	0.00
27	T	2-Butanone	0.989	0.884	10.6	96	0.00
28	T	cis-1,2-Dichloroethene	1.894	1.645	13.1	93	0.00
29	T	Diisopropyl Ether	1.154	1.044	9.5	97	0.00
30	T	Ethyl Acetate	0.477	0.420	11.9	92	0.00
31	T	n-Hexane	2.267	1.931	14.8	93	0.00
32	T	Chloroform	2.136	1.790	16.2	95	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.764	1.758	0.3	104	0.00
34	T	Tetrahydrofuran	0.881	0.786	10.8	91	0.00
35	T	Ethyl tert-Butyl Ether	1.712	1.565	8.6	98	0.00
36	T	1,2-Dichloroethane	1.970	1.795	8.9	98	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	107	0.00
38	T	1,1,1-Trichloroethane	0.519	0.482	7.1	100	0.00
39	T	Isopropyl Acetate	0.193	0.173	10.4	93	0.00
40	T	1-Butanol	0.221	0.225	-1.8	91	0.00
41	T	Benzene	1.223	1.078	11.9	96	0.00
42	T	Carbon Tetrachloride	0.399	0.388	2.8	98	0.00
43	T	Cyclohexane	0.478	0.411	14.0	96	0.00
44	T	tert-Amyl Methyl Ether	0.894	0.805	10.0	97	0.00
45	T	1,2-Dichloropropane	0.304	0.263	13.5	94	0.00
46	T	Bromodichloromethane	0.420	0.384	8.6	98	0.00
47	T	Trichloroethene	0.305	0.277	9.2	100	0.00
48	T	1,4-Dioxane	0.228	0.212	7.0	98	0.00
49	T	Isooctane	1.204	1.042	13.5	94	0.00
50	T	Methyl Methacrylate	0.118	0.116	1.7	99	0.00
51	T	n-Heptane	0.303	0.273	9.9	97	0.00

4/2/07

4/3/07

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2007_03\28\
Data File : 03280717.D
Acq On : 28 Mar 2007 20:15
Operator : LM/SC
Sample : 25ng TO-15 CCV STD
Misc : S15-03150704/S15-03070705
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 29 09:17:13 2007
Quant Method : J:\MS08\METHODS\R8031907.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Mon Mar 19 16:14:30 2007
Response via : Initial 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)
52	T	cis-1,3-Dichloropropene	0.499	0.455	8.8	95	0.00
53	T	4-Methyl-2-pentanone	0.259	0.233	10.0	92	0.00
54	T	trans-1,3-Dichloropropene	0.465	0.430	7.5	97	0.00
55	T	1,1,2-Trichloroethane	0.302	0.274	9.3	98	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	107	0.00
57	S	Toluene-d8 (SS2)	2.168	2.119	2.3	105	0.00
58	T	Toluene	2.486	2.224	10.5	98	0.00
59	T	2-Hexanone	1.273	1.113	12.6	92	0.00
60	T	Dibromochloromethane	0.659	0.616	6.5	99	0.00
61	T	1,2-Dibromoethane	0.682	0.635	6.9	99	0.00
62	T	Butyl Acetate	1.380	1.237	10.4	91	0.00
63	T	n-Octane	0.494	0.432	12.6	94	0.00
64	T	Tetrachloroethene	0.594	0.552	7.1	101	0.00
65	T	Chlorobenzene	1.596	1.458	8.6	101	0.00
66	T	Ethylbenzene	2.824	2.616	7.4	99	0.00
67	T	m- & p-Xylene	1.823	1.677	8.0	99	0.00
68	T	Bromoform	0.420	0.413	1.7	100	0.00
69	T	Styrene	1.636	1.565	4.3	99	0.00
70	T	o-Xylene	1.963	1.817	7.4	99	0.00
71	T	n-Nonane	1.091	0.938	14.0	91	0.00
72	T	1,1,2,2-Tetrachloroethane	0.921	0.852	7.5	96	0.00
73	S	Bromofluorobenzene (SS3)	0.661	0.688	-4.1	110	0.00
74	T	Cumene	2.601	2.432	6.5	98	0.00
75	T	alpha-Pinene	1.355	1.269	6.3	97	0.00
76	T	n-Propylbenzene	3.402	3.150	7.4	97	0.00
77	T	3-Ethyltoluene	2.788	2.653	4.8	100	0.00
78	T	4-Ethyltoluene	2.564	2.385	7.0	97	0.00
79	T	1,3,5-Trimethylbenzene	2.233	2.124	4.9	99	0.00
80	T	alpha-Methylstyrene	1.142	1.121	1.8	95	0.00
81	T	2-Ethyltoluene	2.787	2.634	5.5	98	0.00
82	T	1,2,4-Trimethylbenzene	2.187	2.067	5.5	97	0.00
83	T	n-Decane	1.110	1.013	8.7	93	0.00
84	T	Benzyl Chloride	2.041	2.017	1.2	96	0.00
85	T	1,3-Dichlorobenzene	1.224	1.177	3.8	98	0.00
86	T	1,4-Dichlorobenzene	1.199	1.145	4.5	98	0.00
87	T	sec-Butylbenzene	2.960	2.793	5.6	96	0.00
88	T	p-Isopropyltoluene	2.325	2.239	3.7	97	0.00
89	T	1,2,3-Trimethylbenzene	2.101	2.010	4.3	97	0.00
90	T	1,2-Dichlorobenzene	1.116	1.072	3.9	97	0.00
91	T	d-Limonene	0.814	0.762	6.4	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.360	0.416	-15.6	98	0.00
93	T	n-Undecane	0.828	0.853	-3.0	95	0.00
94	T	1,2,4-Trichlorobenzene	0.203	0.237	-16.7	98	0.00
95	T	Naphthalene	2.134	2.570	-20.4	98	0.00
96	T	n-Dodecane	0.613	0.686	-11.9	96	0.00
97	T	Hexachloro-1,3-butadiene	0.332	0.399	-20.2	100	0.00

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

3/29/07
4/3/07

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2700782

Internal Standard Area and RT Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister(s)
Test Notes:

Lab File ID: 03280701.D
Date Analyzed: 03/28/07
Time Analyzed: 09:03

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	380311	9.07	1766870	11.00	903461	15.82
	Upper Limit	532435	9.40	2473618	11.33	1264845	16.15
	Lower Limit	228187	8.74	1060122	10.67	542077	15.49
	Client Sample ID						
01	Method Blank	373443	9.05	1754282	10.98	875214	15.82
02	Lab Control Sample	340329	9.07	1575102	11.00	828593	15.82
03	Duplicate Lab Control Sample	363168	9.08	1674215	11.00	873771	15.82
04	WDI-IBM-21-3-15-07	378813	9.06	1755519	11.00	886105	15.82
05	WDI-IBM-21-3-15-07 (Lab Duplicate)	372338	9.05	1728320	11.00	862312	15.82
06							
07							
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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: 4/4/07

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	3/19/07 8:53	03190701.D	5ng TO-15 CCV STD	S15-03150704/S15-03070701	SC	1	Failed
2	3/19/07 9:59	03190702.D	5ng TO-15 CCV STD	S15-03150704/S15-03070701	SC	1	Failed
3	3/19/07 10:35	03190703.D	Blank (200ml)	check system	SC	1	
4	3/19/07 11:38	03190704.D	25ng BFB STD	S15-03150704	LM/SC	1	Passed
5	3/19/07 12:14	03190705.D	0.5ng TO-15 ICAL STD	S15-03150704/S15-03070703	LM/SC	1	
6	3/19/07 12:50	03190706.D	1ng TO-15 ICAL STD	S15-03150704/S15-03070703	LM/SC	1	Passed for
7	3/19/07 13:25	03190707.D	5ng TO-15 ICAL STD	S15-03150704/S15-03070703	LM/SC	1	all comp
8	3/19/07 14:01	03190708.D	25ng TO-15 ICAL STD	S15-03150704/S15-03070705	LM/SC	1	
9	3/19/07 14:37	03190709.D	50ng TO-15 ICAL STD	S15-03150704/S15-03070705	LM/SC	1	
10	3/19/07 15:13	03190710.D	100ng TO-15 ICAL STD	S15-03150704/S15-03070705	LM/SC	1	
11	3/19/07 15:49	03190711.D	25ng TO-15 ICV STD	S15-03150704/S15-03070707	LM/SC	2	Passed
12	3/19/07 16:41	03190712.D	TO-15 Method Blank (1000ml)	S15-03150704	LM/SC	1	Failed
13	3/19/07 17:25	03190713.D	25ng TO-15 LCS STD	S15-03150704/S15-03070707	LM/SC	2	Failed
14	3/19/07 18:10	03190714.D	25ng TO-15 LCSD STD	S15-03150704/S15-03070707	LM/SC	2	Passed
15	3/19/07 19:13	03190715.D	P2700712-004 (1000ml)	[redacted],3.0)	LM/SC	6	
16	3/19/07 19:55	03190716.D	P2700712-004 DUP(1000ml)	[redacted],3.0)	LM/SC	6	
17	3/19/07 20:36	03190717.D	P2700712-001 (1000ml)	[redacted],1.0)	LM/SC	3	
18	3/19/07 21:17	03190718.D	P2700712-002 (1000ml)	[redacted],1.0)	LM/SC	4	
19	3/19/07 21:59	03190719.D	P2700712-003 (1000ml)	[redacted]1.0)	LM/SC	5	
20	3/19/07 22:40	03190720.D	P2700712-005 (1000ml)	[redacted],1.0)	LM/SC	7	
21	3/19/07 23:21	03190721.D	P2700712-006 (1000ml)	[redacted]1.0)	LM/SC	8	
22	3/20/07 0:03	03190722.D	P2700712-007 (1000ml)	[redacted],1.0)	LM/SC	9	
23	3/20/07 0:44	03190723.D	P2700712-008 (1000ml)	[redacted],1.0)	LM/SC	10	
24	3/20/07 1:26	03190724.D	P2700712-009 (1000ml)	[redacted],1.0)	LM/SC	11	
25	3/20/07 2:07	03190725.D	P2700712-010 (1000ml)	[redacted]1.0)	LM/SC	12	
26	3/20/07 2:48	03190726.D	P2700712-011 (1000ml)	[redacted],1.0)	LM/SC	13	
27	3/20/07 3:30	03190727.D	P2700712-012 (1000ml)	[redacted],1.0)	LM/SC	14	
28	3/20/07 4:11	03190728.D	P2700712-013 (1000ml)	[redacted],1.0)	LM/SC	15	Failed IS
29	3/20/07 4:53	03190729.D	P2700712-014 (1000ml)	[redacted],1.0)	LM/SC	16	
30	3/20/07 5:28	03190730.D	P2700685-004 (100ml)	[redacted],1.0)	LM/SC	1	
31	3/20/07 8:59	03190731.D	P2700712-015 (1000ml)	[redacted],1.0)	LM/SC	3	
32	3/20/07 9:41	03190732.D	P2700712-016 (1000ml)	[redacted],1.0)	LM/SC	4	
33	3/20/07 10:22	03190733.D	P2700712-017 (1000ml)	[redacted],1.0)	LM/SC	5	
34	3/20/07 10:58	03190734.D	P2700712-013 (100ml)	[redacted],1.0)	LM/SC	15	

ICAL passed for all compounds 0.5ng → 100ng.

IM 3/20/07

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	3/28/07 9:03	03280701.D	25ng TO-15 CCV STD	S15-03150704/S15-03070705	LM/SC	1	Passed
2	3/28/07 9:46	03280702.D	TO-15 Method Blank (1000ml)	S15-03150704	LM/SC	1	Passed
3	3/28/07 10:30	03280703.D	1ng TO-15 CCV STD	S15-03150704/S15-03070703	LM/SC	1	Passed
4	3/28/07 11:13	03280704.D	25ng TO-15 LCS STD	S15-03150704/S15-03260704	LM/SC	2	Passed
5	3/28/07 12:14	03280705.D	25ng TO-15 LCSD STD	S15-03150704/S15-03260704	LM/SC	2	Passed
6	3/28/07 12:58	03280706.D	P2700782-001 (500ml)	TRC WDI-IBM-21-3-15-07 (-2.8,3.5)	LM/SC	4	
7	3/28/07 13:35	03280707.D	P2700782-001 DUP (500ml)	TRC WDI-IBM-21-3-15-07 (-2.8,3.5)	LM/SC	5	Passed
8	3/28/07 14:13	03280708.D	P2700814-010 (100ml)	[redacted]0,3.5)	LM/SC	5	Case file
9	3/28/07 14:51	03280709.D	P2700814-010 (500ml)	[redacted]3.0,3.5)	LM/SC	5	
10	3/28/07 15:26	03280710.D	P2700814-011 (100ml)	[redacted]3.6,3.5)	LM/SC	6	
11	3/28/07 16:02	03280711.D	P2700814-012 (100ml)	[redacted]3.3,3.5)	LM/SC	7	
12	3/28/07 16:38	03280712.D	P2700814-012 DIl (25ml)	[redacted]-3.3,3.5)	LM/SC	7	
13	3/28/07 17:22	03280713.D	P2700814-001 (75ml)	[redacted]2.1,3.5)	LM/SC	8	
14	3/28/07 18:18	03280714.D	P2700814-001 (500ml)	[redacted]2.1,3.5)	LM/SC	8	
15	3/28/07 18:58	03280715.D	P2700814-002 (1000ml)	[redacted]3.1,3.5)	LM/SC	9	
16	3/28/07 19:39	03280716.D	P2700814-003 (1000ml)	[redacted]2.8,3.5)	LM/SC	10	
17	3/28/07 20:15	03280717.D	25ng TO-15 CCV STD	S15-03150704/S15-03070705	LM/SC	3	Passed except Freon 11 High
18	3/28/07 20:56	03280718.D	P2700751-005 (1000ml)	[redacted]2.2,3.5)	LM/SC	4	
19	3/28/07 21:36	03280719.D	P2700751-001 (1000ml)	[redacted]5,3.5)	LM/SC	13	
20	3/28/07 22:17	03280720.D	P2700751-002 (1000ml)	[redacted].4,3.5)	LM/SC	14	
21	3/28/07 22:57	03280721.D	P2700751-003 (1000ml)	[redacted]2.2,3.5)	LM/SC	15	
22	3/28/07 23:38	03280722.D	P2700751-004 (1000ml)	[redacted],3.5)	LM/SC	16	
23	3/29/07 0:19	03280723.D	P2700751-004 DUP (1000ml)	[redacted].5,3.5)	LM/SC	16	
24	3/29/07 0:55	03280724.D	BLANK (200ml)	Rinse	LM/SC	3	

1	3/29/07 9:15	03290701.D	25ng TO-15 CCV STD	S15-03150704/S15-03070705	LM/SC	1	
2	3/29/07 10:06	03290702.D	TO-15 Method Blank (1000ml)	S15-03150704	LM/SC	3	
3	3/29/07 10:45	03290703.D	1ng TO-15 CCV STD	S15-03150704/S15-03070703	LM/SC	1	
4	3/29/07 11:24	03290704.D	25ng TO-15 LCS STD	S15-03150704/S15-03260704	LM/SC	2	
5	3/29/07 12:12	03290705.D	25ng TO-15 LCSD STD	S15-03150704/S15-03260704	LM/SC	2	
6	3/29/07 12:49	03290706.D	P2700814-004 (40ml)	[redacted]2.5,3.5)	LM/SC	11	
7	3/29/07 13:30	03290707.D	P2700814-004 (400ml)	[redacted](-2.5,3.5)	LM/SC	11	
8	3/29/07 14:11	03290708.D	P2700814-004 DUP (400ml)	[redacted](-2.5,3.5)	LM/SC	11	
9	3/29/07 14:51	03290709.D	P2700814-005 (500ml)	[redacted](-2.1,3.5)	LM/SC	12	
10	3/29/07 15:33	03290710.D	P2700814-005 (1000ml)	[redacted]-2.1,3.5)	LM/SC	12	
11	3/29/07 16:19	03290711.D	P2700814-006 (1000ml)	[redacted]2.7,3.5)	LM/SC	5	
12	3/29/07 17:09	03290712.D	P2700814-007 (1000ml)	[redacted]-2.4,3.5)	LM/SC	6	
13	3/29/07 18:34	03290713.D	P2700814-007 DIL (100ml)	[redacted]-2.4,3.5)	LM/SC	6	
14	3/29/07 19:15	03290714.D	P2700814-008 (1000ml)	[redacted]2.8,3.5)	LM/SC	7	
15	3/29/07 19:56	03290715.D	P2700814-009 (1000ml)	[redacted]2.4,3.5)	LM/SC	8	
16	3/29/07 20:31	03290716.D	P2700814-002 DIL (30ml)	[redacted]3.1,3.5)	LM/SC	9	
17	3/29/07 21:06	03290717.D	25ng TO-15 CCV STD	S15-03150704/S15-03070705	LM/SC	1	

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-21-3-15-07**
Client Project ID: **WDI**

CAS Project ID: P2700782
CAS Sample ID: P2700782-001

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01241

Date Collected: 3/15/07
Date Received: 3/21/07
Date(s) Analyzed: 3/27/07
Volume(s) Analyzed: 0.40 Liter(s)

Pi 1 = -2.8 Pf 1 = 3.5

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.096	ND	0.037	
106-93-4	1,2-Dibromoethane	ND	0.096	ND	0.012	

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: R. Date: 4/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-21-3-15-07**
Client Project ID: **WDI**

CAS Project ID: P2700782
CAS Sample ID: P2700782-001DUP

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01241

Date Collected: 3/15/07
Date Received: 3/21/07
Date(s) Analyzed: 3/27/07
Volume(s) Analyzed: 0.40 Liter(s)

Pi 1 = -2.8 Pf 1 = 3.5

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.096	ND	0.037	
106-93-4	1,2-Dibromoethane	ND	0.096	ND	0.012	

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: Rec Date: 4/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700782
CAS Sample ID: P070327-MB

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 3/27/07
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
75-01-4	Vinyl Chloride	ND	0.025	ND	0.0098	
106-93-4	1,2-Dibromoethane	ND	0.025	ND	0.0033	

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: 4/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2700782

Surrogate Spike Recovery Results

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister(s)
Test Notes:

Date Collected: 3/15/07
Date Received: 3/21/07
Date Analyzed: 3/27/07

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	P070327-MB	103	80-120	100	80-120	95	80-120	
Lab Control Sample	P070327-LCS	100	80-120	98	80-120	96	80-120	
Duplicate Lab Control Sample	P070327-DLCS	100	80-120	97	80-120	97	80-120	
WDI-IBM-21-3-15-07	P2700782-001	97	80-120	99	80-120	95	80-120	
WDI-IBM-21-3-15-07	P2700782-001DUP	96	80-120	99	80-120	94	80-120	

Verified By: RC Date: 4/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700782
CAS Sample ID: P070327-LCS, P070327-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/27/07
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS pg	Result LCS pg	Result DLCS pg	% Recovery LCS	% Recovery DLCS	CAS Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Vinyl Chloride	495	446	446	**90**	**90**	65-135	**0**	35	
1,2-Dibromoethane	520	504	498	**97**	**96**	65-135	**1**	35	

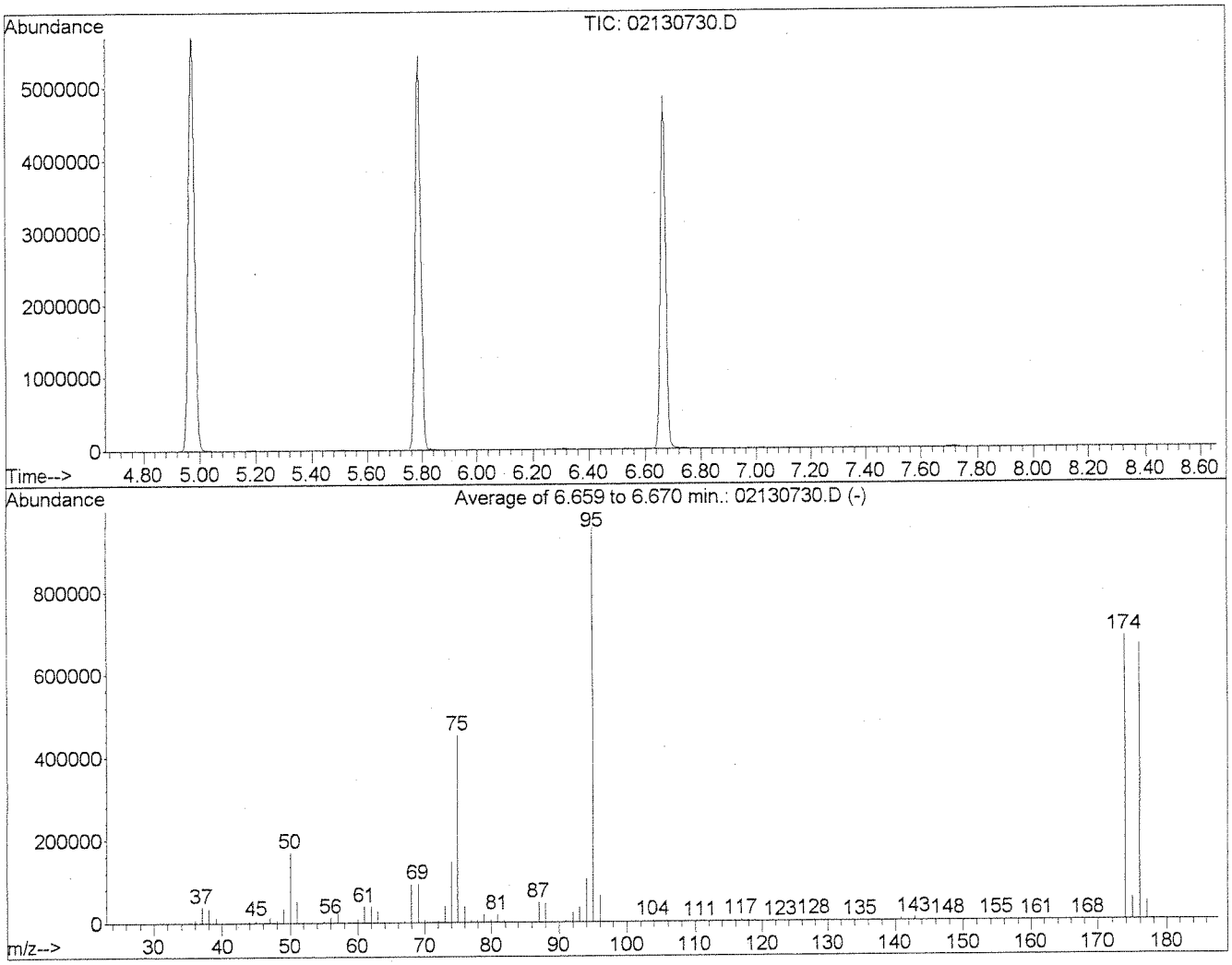
Verified By: RC. Date: 4/4/07

BFB

ICAL

Data File : J:\MS07\DATA\2007_02\13\02130730.D
Acq On : 14 Feb 2007 1:54
Sample : 25ng BFB
Misc :
MS Integration Params: rteint.p
Method : J:\MS07\METHODS\X7021307.M (RTE Integrator)
Title : TO-15/SIM

Vial: 1
Operator: AB
Inst : MSD7
Multiplr: 1.00



AutoFind: Scans 379, 380, 381; Background Corrected with Scan 371

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.7	168490	PASS
75	95	30	66	47.4	451477	PASS
95	95	100	100	100.0	951829	PASS
96	95	5	9	6.7	64149	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	72.0	685162	PASS
175	174	4	9	7.7	52925	PASS
176	174	93	101	96.9	664106	PASS
177	176	5	9	6.7	44560	PASS

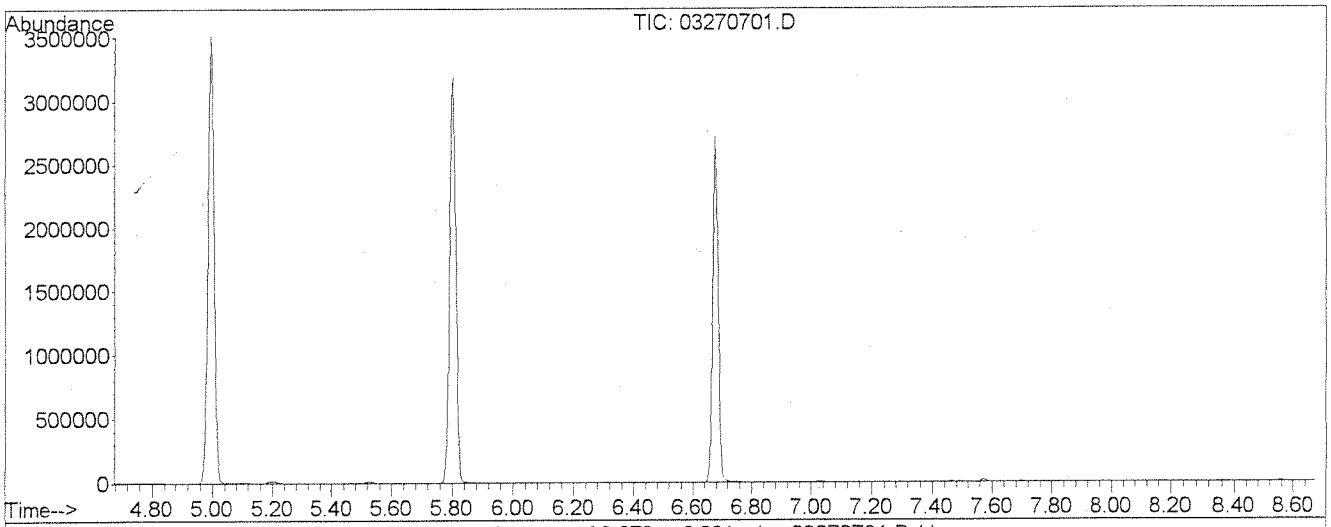
02130730.D X7021307.M Wed Feb 14 10:00:34 2007 MSD7

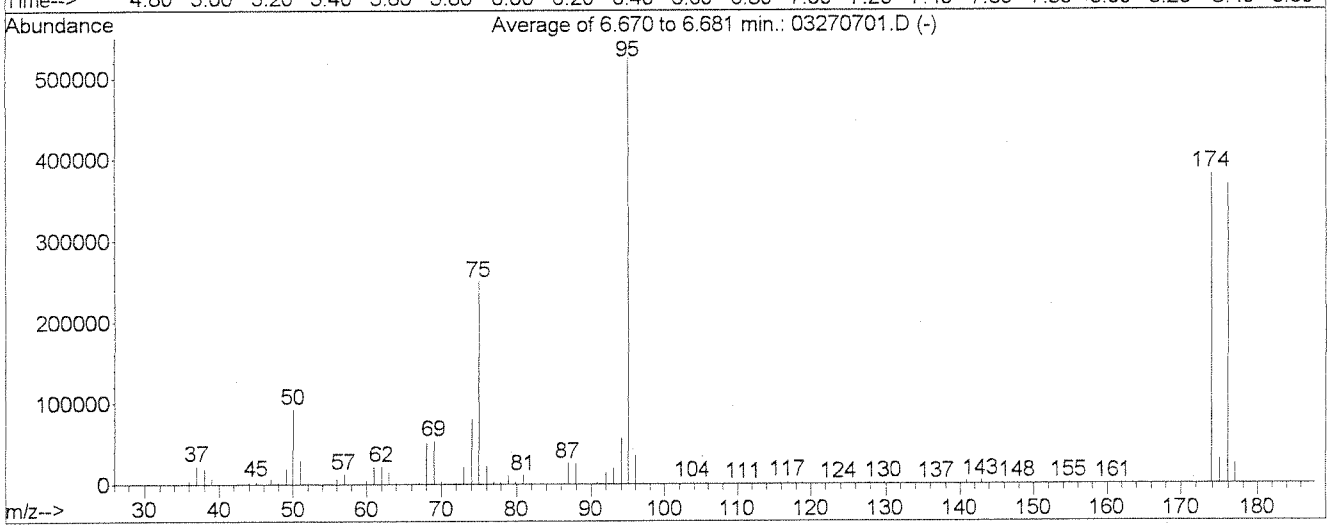
2/14/07

BFB

Data File : J:\MS07\DATA\2007_03\27\03270701.D
Acq On : 27 Mar 2007 9:22
Sample : 25ng BFB
Misc :
MS Integration Params: rteint.p
Method : J:\MS07\METHODS\X7021307.M (RTE Integrator)
Title : TO-15/SIM

Vial: 1
Operator: AB
Inst : MSD7
Multiplr: 1.00





AutoFind: Scans 381, 382, 383; Background Corrected with Scan 373

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.6	92384	PASS
75	95	30	66	47.5	249258	PASS
95	95	100	100	100.0	524928	PASS
96	95	5	9	6.6	34690	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	72.6	381354	PASS
175	174	4	9	7.9	30072	PASS
176	174	93	101	96.7	368618	PASS
177	176	5	9	6.5	24016	PASS

03270701.D X7021307.M Tue Mar 27 10:12:26 2007 MSD7

3/27/07

Response Factor Report MSD7

Method : J:\MS07\METHODS\X7021307.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Feb 14 09:55:39 2007
Response via : Initial Calibration

Calibration Files
10 =02130732.D 25 =02130733.D 100 =02130734.D 250 =02130735.D 500 =02130736.D
1000 =02130737.D 2500 =02130738.D 9999 =02130739.D = =

		Compound	10	25	100	250	500	1000	2500	9999	Avg		%RSD
1)	I	Bromochloromethan	---ISTD---										
2)	T	Dichlorodifluorom	3.663	3.450	3.903	3.462	3.318	3.154	3.004	2.916	3.359		9.90
3)	T	Chloromethane		1.168	1.171	1.004	0.955	0.913	0.863	0.839	0.987		13.77
4)	T	Vinyl Chloride	3.323	3.086	3.618	3.195	3.054	2.932	2.770	2.648	3.078		10.02
5)	T	Chloroethane	1.637	1.479	1.802	1.583	1.522	1.453	1.413	1.386	1.534		8.92
6)	T	Acetone				2.281	1.919	1.625	1.501	1.313	1.728		21.98
7)	T	1,1-Dichloroethen	1.523	1.469	1.773	1.579	1.510	1.466	1.433	1.408	1.520		7.59
8)	T	Methylene Chlorid			2.065	1.835	1.756	1.689	1.630	1.556	1.755		10.26
9)	T	Trichlorotrifluor	1.384	1.186	1.418	1.254	1.209	1.061	0.933	0.908	1.169		16.26
10)	T	trans-1,2-Dichlor	1.694	1.629	1.968	1.746	1.685	1.620	1.568	1.553	1.683		7.85
11)	T	1,1-Dichloroethan	2.695	2.381	3.067	2.732	2.681	2.568	2.573	2.644	2.668		7.31
12)	T	Methyl tert-Butyl	5.703	4.451	5.963	5.172	4.922	3.852	3.178	3.178	4.552		23.65
13)	T	cis-1,2-Dichloroe	1.693	1.667	2.023	1.784	1.726	1.654	1.599	1.583	1.716		8.15
14)	T	Chloroform			3.159	2.620	2.450	2.206	2.149	2.139	2.454		16.09
15)	S	1,2-Dichloroethan	2.152	2.075	2.168	2.116	2.120	2.048	2.004	1.996	2.085		3.12
16)	T	1,2-Dichloroethan	2.452	2.290	2.740	2.438	2.351	2.235	2.096	2.057	2.332		9.38
17)	T	1,1,1-Trichloroet	2.583	2.397	2.902	2.554	2.472	2.348	2.246	2.218	2.465		8.95
18)	T	Benzene			1.272	0.863	0.772	0.715	0.672	0.650	0.824	E1	28.21
19)	T	Carbon Tetrachlor	1.702	1.355	1.982	1.768	1.735	1.622	1.604	1.670	1.680		10.50
20)	I	1,4-Difluorobenze	---ISTD---										
21)	T	1,2-Dichloropropa	0.349	0.327	0.386	0.347	0.335	0.319	0.315	0.314	0.336		7.21
22)	T	Trichloroethene	0.310	0.275	0.319	0.281	0.271	0.260	0.254	0.255	0.278		8.86
23)	T	1,4-Dioxane	0.343	0.270	0.237	0.206	0.197	0.189	0.187	0.217	0.231		23.08
24)	T	cis-1,3-Dichlorop	0.530	0.461	0.565	0.509	0.495	0.471	0.475	0.492	0.500		6.84
25)	T	1,1,2-Trichloroet	0.287	0.265	0.296	0.259	0.251	0.241	0.237	0.240	0.259		8.55
26)	S	Toluene-d8 (SS2)	1.160	1.158	1.153	1.155	1.153	1.158	1.163	1.168	1.159		0.45
27)	T	Toluene	1.954	1.561	1.581	1.388	1.321	1.262	1.236	1.236	1.442		17.19

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

Response Factor Report MSD7

Method : J:\MS07\METHODS\X7021307.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Feb 14 09:55:39 2007
Response via : Initial Calibration

Calibration Files
10 =02130732.D 25 =02130733.D 100 =02130734.D 250 =02130735.D 500 =02130736.D
1000 =02130737.D 2500 =02130738.D 9999 =02130739.D = =

		Compound	10	25	100	250	500	1000	2500	9999	Avg	%RSD
28)	T	1,2-Dibromoethane	0.333	0.302	0.348	0.313	0.304	0.291	0.287	0.296	0.309	6.89
29)	T	Tetrachloroethene	0.283	0.260	0.309	0.275	0.264	0.254	0.247	0.249	0.268	7.79
30)	I	Chlorobenzene-d5	ISTD									
31)	T	Chlorobenzene	1.636	1.445	1.708	1.505	1.451	1.385	1.357	1.365	1.481	8.70
32)	T	Ethylbenzene	3.101	2.721	3.067	2.735	2.649	2.546	2.519	2.522	2.732	8.52
33)	T	m-&-p-Xylene	1.956	1.714	1.993	1.791	1.745	1.670	1.661	1.673	1.775	7.37
34)	T	o-Xylene	1.942	1.796	2.088	1.874	1.840	1.754	1.737	1.756	1.848	6.46
35)	T	1,1,2,2-Tetrachlo	0.869	0.841	0.928	0.841	0.825	0.798	0.796	0.822	0.840	5.11
36)	S	Bromofluorobenzen	0.663	0.662	0.663	0.665	0.667	0.663	0.667	0.669	0.665	0.40
37)	T	1,3-Dichlorobenze	1.165	1.092	1.235	1.112	1.082	1.039	1.021	1.064	1.101	6.36
38)	T	1,4-Dichlorobenze	1.160	1.066	1.186	1.078	1.048	1.011	0.996	1.043	1.074	6.27
39)	T	1,2-Dichlorobenze	1.095	1.032	1.134	1.021	0.997	0.958	0.941	0.979	1.019	6.53
40)	T	1,2,4-Trichlorobe	0.648	0.603	0.657	0.605	0.593	0.577	0.579	0.593	0.607	4.94
41)	T	Naphthalene	1.117	1.008	1.837	1.739	1.749	1.695	1.744	1.789	1.585	20.58
42)	T	Hexachlorobutadie	0.453	0.421	0.375	0.328	0.316	0.304	0.302	0.314	0.352	16.49

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

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_03\27\03270702.D
Acq On : 27 Mar 2007 9:46
Sample : 500pg TO-15/SIM CCV Standard
Misc : S15-03140701/S15-03060703
MS Integration Params: rteint.p

Vial: 2
Operator: AB
Inst : MSD7
Multiplr: 1.00

Method : J:\MS07\METHODS\X7021307.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Feb 14 09:55:39 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	I	Bromochloromethane (IS1)	1.000	1.000	0.0	108	0.00
2	T	Dichlorodifluoromethane	3.359	3.015	10.2	98	0.00
3	T	Chloromethane	0.987	0.877	11.1	99	0.00
4	T	Vinyl Chloride	3.078	2.687	12.7	95	0.00
5	T	Chloroethane	1.534	1.389	9.5	98	0.00
6	T	Acetone	1.728	2.279	-31.9#	128	0.00
7	T	1,1-Dichloroethene	1.520	1.379	9.3	98	0.00
8	T	Methylene Chloride	1.755	1.585	9.7	97	0.00
9	T	Trichlorotrifluoroethane	1.169	1.085	7.2	97	0.00
10	T	trans-1,2-Dichloroethene	1.683	1.530	9.1	98	0.00
11	T	1,1-Dichloroethane	2.668	2.564	3.9	103	0.00
12	T	Methyl tert-Butyl Ether	4.552	4.404	3.3	96	0.00
13	T	cis-1,2-Dichloroethene	1.716	1.570	8.5	98	0.00
14	T	Chloroform	2.454	2.516	-2.5	111	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	2.085	2.085	0.0	106	0.00
16	T	1,2-Dichloroethane	2.332	2.135	8.4	98	0.00
17	T	1,1,1-Trichloroethane	2.465	2.234	9.4	97	0.00
18	T	Benzene	8.241	7.106	13.8	99	0.00
19	T	Carbon Tetrachloride	1.680	1.611	4.1	100	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	105	0.00
21	T	1,2-Dichloropropane	0.336	0.314	6.5	98	0.00
22	T	Trichloroethene	0.278	0.252	9.4	97	0.00
23	T	1,4-Dioxane	0.231	0.195	15.6	104	0.00
24	T	cis-1,3-Dichloropropene	0.500	0.460	8.0	97	0.00
25	T	1,1,2-Trichloroethane	0.259	0.236	8.9	99	0.00
26	S	Toluene-d8 (SS2)	1.159	1.140	1.6	103	0.00
27	T	Toluene	1.442	1.235	14.4	98	0.00
28	T	1,2-Dibromoethane	0.309	0.287	7.1	99	0.00
29	T	Tetrachloroethene	0.268	0.244	9.0	97	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	105	0.00
31	T	Chlorobenzene	1.481	1.354	8.6	98	0.00
32	T	Ethylbenzene	2.732	2.446	10.5	97	0.00
33	T	m-&-p-Xylene	1.775	1.613	9.1	97	0.00
34	T	o-Xylene	1.848	1.703	7.8	97	0.00
35	T	1,1,2,2-Tetrachloroethane	0.840	0.762	9.3	97	0.00
36	S	Bromofluorobenzene (SS3)	0.665	0.642	3.5	101	0.00
37	T	1,3-Dichlorobenzene	1.101	0.985	10.5	96	0.00
38	T	1,4-Dichlorobenzene	1.074	0.959	10.7	96	0.00
39	T	1,2-Dichlorobenzene	1.019	0.907	11.0	96	0.00

(#) = Out of Range

JS 5/29/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_03\27\03270702.D
Acq On : 27 Mar 2007 9:46
Sample : 500pg TO-15/SIM CCV Standard
Misc : S15-03140701/S15-03060703
MS Integration Params: rteint.p

Vial: 2
Operator: AB
Inst : MSD7
Multiplr: 1.00

Method : J:\MS07\METHODS\X7021307.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Feb 14 09:55:39 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)
40	T	1,2,4-Trichlorobenzene	0.607	0.487	19.8	86	0.00
41	T	Naphthalene	1.585	1.246	21.4	75	0.00
42	T	Hexachlorobutadiene	0.352	0.281	20.2	94	0.00

03/27/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_03\27\03270712.D Vial: 2
Acq On : 27 Mar 2007 15:40 Operator: AB
Sample : 25pg TO-15/SIM CRQL Standard Inst : MSD7
Misc : S15-03140701/S15-03060703 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7021307.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Feb 14 09:55:39 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	I	Bromochloromethane (IS1)	1.000	1.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	3.359	2.601	22.6	72	0.01
3	T	Chloromethane	0.987	1.038	-5.2	85	0.01
4	T	Vinyl Chloride	3.078	2.284	25.8	71	0.01
5	T	Chloroethane	1.534	1.170	23.7	76	0.01
6	T	Acetone	1.728	10.972	-535.0#	0#	0.02
7	T	1,1-Dichloroethene	1.520	1.101	27.6	72	0.01
8	T	Methylene Chloride	1.755	1.743	0.7	0#	0.01
9	T	Trichlorotrifluoroethane	1.169	0.713	39.0#	58	0.00
10	T	trans-1,2-Dichloroethene	1.683	1.185	29.6	70	0.01
11	T	1,1-Dichloroethane	2.668	1.768	33.7#	71	0.00
12	T	Methyl tert-Butyl Ether	4.552	2.587	43.2#	56	0.03
13	T	cis-1,2-Dichloroethene	1.716	1.314	23.4	76	0.00
14	T	Chloroform	2.454	2.086	15.0	0#	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	2.085	2.117	-1.5	98	0.00
16	T	1,2-Dichloroethane	2.332	1.668	28.5	70	0.00
17	T	1,1,1-Trichloroethane	2.465	1.718	30.3#	69	0.00
18	T	Benzene	8.241	14.996	-82.0#	0#	0.00
19	T	Carbon Tetrachloride	1.680	0.836	50.2#	59	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	95	0.00
21	T	1,2-Dichloropropane	0.336	0.245	27.1	71	0.00
22	T	Trichloroethene	0.278	0.238	14.4	82	0.00
23	T	1,4-Dioxane	0.231	0.173	25.1	61	0.04
24	T	cis-1,3-Dichloropropene	0.500	0.308	38.4#	63	0.00
25	T	1,1,2-Trichloroethane	0.259	0.185	28.6	66	0.00
26	S	Toluene-d8 (SS2)	1.159	1.133	2.2	93	0.00
27	T	Toluene	1.442	1.239	14.1	75	0.00
28	T	1,2-Dibromoethane	0.309	0.204	34.0#	64	0.00
29	T	Tetrachloroethene	0.268	0.795	-196.6#	290#	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	95	0.00
31	T	Chlorobenzene	1.481	1.048	29.2	69	0.00
32	T	Ethylbenzene	2.732	1.952	28.6	68	0.00
33	T	m-&-p-Xylene	1.775	1.244	29.9	69	-0.01
34	T	o-Xylene	1.848	1.262	31.7#	66	0.00
35	T	1,1,2,2-Tetrachloroethane	0.840	0.539	35.8#	61	0.00
36	S	Bromofluorobenzene (SS3)	0.665	0.621	6.6	89	0.00
37	T	1,3-Dichlorobenzene	1.101	0.702	36.2#	61	0.00
38	T	1,4-Dichlorobenzene	1.074	0.677	37.0#	60	0.00
39	T	1,2-Dichlorobenzene	1.019	0.635	37.7#	58	0.00

(#) = Out of Range

3/27/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_03\27\03270712.D Vial: 2
Acq On : 27 Mar 2007 15:40 Operator: AB
Sample : 25pg TO-15/SIM CRQL Standard Inst : MSD7
Misc : S15-03140701/S15-03060703 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7021307.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Feb 14 09:55:39 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)
40	T	1,2,4-Trichlorobenzene	0.607	0.323	46.8#	51	0.00
41	T	Naphthalene	1.585	1.178	25.7	111	0.00
42	T	Hexachlorobutadiene	0.352	0.206	41.5#	46#	0.00

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_03\27\03270718.D Vial: 2
Acq On : 27 Mar 2007 19:23 Operator: AB
Sample : 500pg TO-15/SIM CCV Standard Inst : MSD7
Misc : S15-03140701/S15-03060703 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7021307.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Feb 14 09:55:39 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	I	Bromochloromethane (IS1)	1.000	1.000	0.0	107	0.00
2	T	Dichlorodifluoromethane	3.359	2.974	11.5	96	0.00
3	T	Chloromethane	0.987	0.849	14.0	95	0.00
4	T	Vinyl Chloride	3.078	2.647	14.0	93	0.00
5	T	Chloroethane	1.534	1.372	10.6	97	0.00
6	T	Acetone	1.728	2.065	-19.5	115	0.00
7	T	1,1-Dichloroethene	1.520	1.361	10.5	97	0.00
8	T	Methylene Chloride	1.755	1.566	10.8	95	0.00
9	T	Trichlorotrifluoroethane	1.169	1.077	7.9	95	0.00
10	T	trans-1,2-Dichloroethene	1.683	1.501	10.8	95	0.00
11	T	1,1-Dichloroethane	2.668	2.531	5.1	101	0.00
12	T	Methyl tert-Butyl Ether	4.552	4.306	5.4	94	0.00
13	T	cis-1,2-Dichloroethene	1.716	1.548	9.8	96	0.00
14	T	Chloroform	2.454	2.263	7.8	99	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	2.085	2.069	0.8	104	0.00
16	T	1,2-Dichloroethane	2.332	2.112	9.4	96	0.00
17	T	1,1,1-Trichloroethane	2.465	2.195	11.0	95	0.00
18	T	Benzene	8.241	6.946	15.7	96	0.00
19	T	Carbon Tetrachloride	1.680	1.555	7.4	96	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	103	0.00
21	T	1,2-Dichloropropane	0.336	0.311	7.4	96	0.00
22	T	Trichloroethene	0.278	0.252	9.4	96	0.00
23	T	1,4-Dioxane	0.231	0.193	16.5	101	0.00
24	T	cis-1,3-Dichloropropene	0.500	0.452	9.6	94	0.00
25	T	1,1,2-Trichloroethane	0.259	0.235	9.3	97	0.00
26	S	Toluene-d8 (SS2)	1.159	1.144	1.3	103	0.00
27	T	Toluene	1.442	1.277	11.4	100	0.00
28	T	1,2-Dibromoethane	0.309	0.283	8.4	96	0.00
29	T	Tetrachloroethene	0.268	0.243	9.3	95	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	103	0.00
31	T	Chlorobenzene	1.481	1.343	9.3	96	0.00
32	T	Ethylbenzene	2.732	2.417	11.5	94	0.00
33	T	m-&-p-Xylene	1.775	1.595	10.1	94	0.00
34	T	o-Xylene	1.848	1.691	8.5	95	0.00
35	T	1,1,2,2-Tetrachloroethane	0.840	0.769	8.5	96	0.00
36	S	Bromofluorobenzene (SS3)	0.665	0.639	3.9	99	0.00
37	T	1,3-Dichlorobenzene	1.101	0.980	11.0	94	0.00
38	T	1,4-Dichlorobenzene	1.074	0.953	11.3	94	0.00
39	T	1,2-Dichlorobenzene	1.019	0.901	11.6	93	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_03\27\03270718.D Vial: 2
Acq On : 27 Mar 2007 19:23 Operator: AB
Sample : 500pg TO-15/SIM CCV Standard Inst : MSD7
Misc : S15-03140701/S15-03060703 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7021307.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Feb 14 09:55:39 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)
40	T	1,2,4-Trichlorobenzene	0.607	0.462	23.9	80	0.00
41	T	Naphthalene	1.585	1.164	26.6	69	0.00
42	T	Hexachlorobutadiene	0.352	0.267	24.1	87	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700782

Internal Standard Area and RT Summary

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister(s)
Test Notes:

Lab File ID: 03270702.D
Date Analyzed: 03/27/07
Time Analyzed: 09:46

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	33936	5.87	182556	7.14	100085	10.60
	Upper Limit	47510	6.20	255578	7.47	140119	10.93
	Lower Limit	20362	5.54	109534	6.81	60051	10.27
	Client Sample ID						
01	Method Blank	30661	5.87	177321	7.15	98719	10.60
02	Lab Control Sample	32808	5.87	175606	7.15	96271	10.60
03	Duplicate Lab Control Sample	32867	5.87	176715	7.14	95310	10.60
04	WDI-IBM-21-3-15-07	33561	5.88	181405	7.16	101284	10.61
05	WDI-IBM-21-3-15-07 (Lab Duplicate)	33200	5.88	179170	7.15	100526	10.61
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: 4/4/07

1	2/13/07 9:21	02130701.D	25ng BFB		AB	1	PASSED
2	2/13/07 9:49	02130702.D	500pg TO-15/SIM CCV Std	S15-02060703/S15-02070703	AB	2	PASSED [illegible] MTBE high
3	2/13/07 10:32	02130703.D	TO-15/SIM Method Blank (1000ml)	S15-02060703	AB	2	PASSED
4	2/13/07 11:03	02130704.D	500pg TO-15/SIM LCS	S15-02060703/S15-01200702	AB	3	PASSED [redacted]
5	2/13/07 11:35	02130705.D	25pg TO-15/SIM CRQL Std	S15-02060703/S15-02070704	AB	2	
6	2/13/07 12:24	02130706.D	P2700354-005 (1000ml)	[redacted]14.5, 3.5)	AB	9	
7	2/13/07 12:54	02130707.D	P2700302-001 (1000ml)	[redacted]6, 3.5)	AB	10	
8	2/13/07 13:25	02130708.D	P2700302-002 (1000ml)	[redacted]0.6, 3.5)	AB	11	
9	2/13/07 14:35	02130709.D	Blank (1000ml)		AB	2	
10	2/13/07 15:11	02130710.D	500pg TO-15/SIM LCS Dup	S15-02060703/S15-01200702	AB	3	PASSED AS DUP
11	2/13/07 15:44	02130711.D	P2700354-001 (1000ml)	[redacted]1.4, 3.5)	AB	12	
12	2/13/07 16:14	02130712.D	P2700354-001Dup (1000ml)	[redacted].4, 3.5)	AB	12	PASSED AS DUP
13	2/13/07 16:45	02130713.D	P2700354-002 (1000ml)	[redacted]6,3.5)	AB	13	
14	2/13/07 17:16	02130714.D	P2700354-003 (1000ml)	[redacted]0, 3.5)	AB	14	
15	2/13/07 18:01	02130715.D	P2700354-004 (1000ml)	[redacted]8, 3.5)	AB	15	
16	2/13/07 18:33	02130716.D	500pg TO-15/SIM CCV Std	S15-02060703/S15-02070703	AB	2	PASSED [redacted]
17	2/13/07 19:10	02130717.D	Blank (1000ml)		AB	2	
18	2/13/07 20:08	02130718.D	P2700304-031 (1000ml)	[redacted]4.4, 3.6)	AB	5	
19	2/13/07 20:39	02130719.D	P2700304-025 (1000ml)	[redacted]3.6)	AB	6	
20	2/13/07 21:10	02130720.D	P2700304-026 (1000ml)	[redacted]7, 3.5)	AB	7	
21	2/13/07 21:40	02130721.D	P2700304-027 (1000ml)	[redacted].5, 3.6)	AB	8	
22	2/13/07 22:11	02130722.D	P2700304-028 (1000ml)	[redacted].5, 3.5)	AB	9	
23	2/13/07 22:41	02130723.D	P2700304-029 (1000ml)	[redacted].2, 3.6)	AB	12	
24	2/13/07 23:11	02130724.D	P2700304-030 (1000ml)	[redacted](-2.8, 3.6)	AB	13	
25	2/13/07 23:39	02130725.D	25pg std check		AB	2	
26	2/14/07 0:06	02130726.D	2000pg std check		AB	4	
27	2/14/07 0:34	02130727.D	Blank (100ml)		AB	10	
28	2/14/07 1:01	02130728.D	Blank (500ml)		AB	2	
29	2/14/07 1:29	02130729.D	Blank (100ml)		AB	2	
30	2/14/07 1:54	02130730.D	25ng BFB		AB	1	
31	2/14/07 2:16	02130731.D	Blank (100ml)		AB	2	
32	2/14/07 2:44	02130732.D	10pg TO-15/SIM ICAL std	S15-02060703/S15-02070704	AB	2	ICAL [illegible] 10 - 10,000 pg
33	2/14/07 3:12	02130733.D	25pg TO-15/SIM ICAL std	S15-02060703/S15-02070704	AB	2	Except chloromethane, EtOH
34	2/14/07 3:41	02130734.D	100pg TO-15/SIM ICAL std	S15-02060703/S15-02070703	AB	2	Acetone 250 - 10,000
35	2/14/07 4:09	02130735.D	250pg TO-15/SIM ICAL std	S15-02060703/S15-02070703	AB	2	CH_2Cl_2, Benzene, Chloroform
36	2/14/07 4:37	02130736.D	500pg TO-15/SIM ICAL std	S15-02060703/S15-02070703	AB	2	100 - 10,000 pg
37	2/14/07 5:05	02130737.D	1000pg TO-15/SIM ICAL std	S15-02060703/S15-02070703	AB	2	
38	2/14/07 5:33	02130738.D	2500pg TO-15/SIM ICAL std	S15-02060703/S15-02070703	AB	2	
39	2/14/07 6:01	02130739.D	10000pg TO-15/SIM ICAL std	S15-02060703/S15-02050703	AB	2	
40	2/14/07 6:29	02130740.D	Blank (100ml)		AB	2	
41	2/14/07 6:57	02130741.D	500pg TO-15/SIM ICV std	S15-02060703/S15-01200702	AB	3	NOT USED
42	2/14/07 10:11	02130742.D	500pg TO-15/SIM ICV std	S15-02060703/S15-01200702	AB	3	↓
43	2/14/07 10:44	02130743.D	500pg TO-15/SIM ICV std	S15-02060703/S15-02080702	AB	3	PASSED

2/14/07 11:19 AM

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	3/27/07 9:22	03270701.D	25ng BFB		AB	1	PASS
2	3/27/07 9:46	03270702.D	500pg TO-15/SIM CCV Standard	S15-03140701/S15-03060703	AB	2	T
3	3/27/07 10:41	03270703.D	TO-15/SIM Method Blank (1000ml)	S15-03140701	AB	2	T
4	3/27/07 11:40	03270704.D	CAS Can/FC/Gauge QC (1000ml)	AC00948/FC00228/AVG00499	AB	5	FAILED
5	3/27/07 12:11	03270705.D	CAS Can/FC/Gauge QC (1000ml)	AC01087/FC00601/AVG00592	AB	6	T
6	3/27/07 12:41	03270706.D	CAS Can/FC/Gauge QC (1000ml)	AC00909/FC00429/AVG00249	AB	7	PASSED SO NO ISTD
7	3/27/07 13:13	03270707.D	CAS Can/FC/Gauge QC (1000ml)	AC00650/FC00227/AVG00322	AB	8	FAILED
8	3/27/07 13:44	03270708.D	CAS Can/FC/Gauge QC (1000ml)	AC00538/FC00463/AVG00161	AB	9	PASSED SO NO ISTD
9	3/27/07 14:14	03270709.D	CAS Can/FC/Gauge QC (1000ml)	AC00517/FC00419/AVG00502	AB	10	FAILED
10	3/27/07 14:44	03270710.D	500pg TO-15/SIM LCS	S15-03140701/S15-03020705	AB	3	PASS
11	3/27/07 15:13	03270711.D	500pg TO-15/SIM LCS Dup	S15-03140701/S15-03020705	AB	3	PASS AIRMP
12	3/27/07 15:40	03270712.D	25pg TO-15/SIM CRQL Standard	S15-03140701/S15-03060703	AB	2	
13	3/27/07 16:18	03270713.D	P2700782-001 Dil (100ml)	TRC WDI-IBM-21-3-15-07 (-2.8, 3.5)	AB	4	
14	3/27/07 16:52	03270714.D	P2700716-008 Dil (5.0ml)	TRC WDI-IBM-21-3-15-07 (-2.8, 3.5)	AB	2	
15	3/27/07 17:25	03270715.D	P2700716-009 Dil (5.0ml)	[redacted]4, 3.6)	AB	2	
16	3/27/07 18:28	03270716.D	P2700782-001 (400ml)	TRC WDI-IBM-21-3-15-07 (-2.8, 3.5)	AB	4	
17	3/27/07 18:56	03270717.D	P2700782-001 Dup (400ml)	TRC WDI-IBM-21-3-15-07 (-2.8, 3.5)	AB	4	
18	3/27/07 19:23	03270718.D	500pg TO-15/SIM CCV Standard	S15-03140701/S15-03060703	AB	2	PASSED TRACKING CCV
19	3/27/07 19:50	03270719.D	Blank (100ml)		AB	2	
20	3/27/07 20:22	03270720.D	CAS Can/FC/Gauge QC (1000ml)	AC00605/FC00556/AVG00595	AB	5	PASSED SO NO
21	3/27/07 20:53	03270721.D	CAS Can/FC/Gauge QC (1000ml)	AC01088/FC00355/AVG00505	AB	6	T
22	3/27/07 21:24	03270722.D	CAS Can/FC/Gauge QC (1000ml)	AC01268/FC00358/AVG00464	AB	7	T
23	3/27/07 21:54	03270723.D	CAS Can/FC/Gauge QC (1000ml)	AC01031/FC00585/AVG00553	AB	8	T
24	3/27/07 22:25	03270724.D	P2700717-001 (1000ml)	[redacted]2.1, 3.5)	AB	9	
25	3/27/07 22:55	03270725.D	P2700717-001 Dup (1000ml)	[redacted](-2.1, 3.5)	AB	9	
26	3/27/07 23:25	03270726.D	P2700717-002 (1000ml)	[redacted]7, 3.6)	AB	10	
27	3/27/07 23:53	03270727.D	P2700717-006 Dil (50ml)	[redacted]2.8, 3.5)	AB	11	
28	3/28/07 0:20	03270728.D	P2700717-007 (100ml)	[redacted]2.6, 3.6)	AB	12	
29	3/28/07 0:51	03270729.D	P2700717-008 (1000ml)	[redacted]1.4, 3.6)	AB	13	
30	3/28/07 1:33	03270730.D	P2700717-011 (1000ml)	[redacted]-2.5, 3.6)	AB	14	
31	3/28/07 2:03	03270731.D	P2700717-012 (1000ml)	[redacted]1.3, 3.6)	AB	15	
32	3/28/07 2:31	03270732.D	P2700717-012 Dil (100ml)	[redacted]1.3, 3.6)	AB	15	
33	3/28/07 3:03	03270733.D	P2700720-001 (1000ml)	[redacted]-3.2, 3.5)	AB	5	
34	3/28/07 3:33	03270734.D	P2700720-008 (1000ml)	[redacted]3, 3.5)	AB	6	
35	3/28/07 4:03	03270735.D	P2700720-003 (1000ml)	[redacted]8, 3.5)	AB	7	
36	3/28/07 4:33	03270736.D	P2700720-004 (1000ml)	[redacted]2.7, 3.5)	AB	8	
37	3/28/07 5:05	03270737.D	P2700720-005 (1000ml)	[redacted](-1.8, 3.5)	AB	9	
38	3/28/07 5:35	03270738.D	P2700720-006 (1000ml)	[redacted]5, 3.7)	AB	10	

	Date/Time
1	3/28/07 8:27
2	3/28/07 9:03
3	3/28/07 9:50
4	3/28/07 10:24
5	3/28/07 11:43
6	3/28/07 12:15
7	3/28/07 12:46
8	3/28/07 13:16
9	3/28/07 13:47
10	3/28/07 14:18
11	3/28/07 15:14
12	3/28/07 16:17
13	3/28/07 16:47
14	3/28/07 17:17
15	3/28/07 17:48
16	3/28/07 18:16
17	3/28/07 18:43
18	3/28/07 19:15
19	3/28/07 19:45
20	3/28/07 20:12
21	3/28/07 20:40
22	3/28/07 21:10
23	3/28/07 21:40
24	3/28/07 22:12
25	3/28/07 22:39
26	3/28/07 23:06
27	3/28/07 23:38
28	3/29/07 0:08
29	3/29/07 0:39
30	3/29/07 1:09
31	3/29/07 1:40
32	3/29/07 2:12
1	3/29/07 9:28
2	3/29/07 9:56
3	3/29/07 10:4
4	3/29/07 11:5
5	3/29/07 12:2
6	3/29/07 12:5
7	3/29/07 13:2
8	3/29/07 13:5
9	3/29/07 14:2
10	3/29/07 15:3
11	3/29/07 16:0

03/29/07

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: TRC Work order: P2700782

Project: WDI

Sample(s) received on: 3/21/07 Date opened: 3/21/07 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
P2700782-001			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. P2700782

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

Project Name: WDI

Project Number:

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

CAS Contact:

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-IAM-21-3-15-07	1	3-15-07	1255	AIR	AC01241	FC00462	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	3/20/07	1710	[illegible]	3/21/07	0830
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank
Temperature °C