Veridian
Environmental, Inc
"Truth through Science"

April 16, 2007

Mr. Anand Helekar, PE
TRC Solutions, Inc.
21 Technology Drive
Irvine, California 92618

Dear Mr. Helekar:

Enclosed is the revised quality assurance review of the organic data for samples collected between December 6, 2006 and January 6, 2007, as part of the Waste Disposal, Incorporated Superfund Site in Santa Fe Springs, California. This report includes samples from sample delivery groups (SDGs) P2603371, P2603389, P2603406, P2603461, P2603502, P2603530, and P2700092.

Overall, the data quality appears to be good. As requested, 10% of the data submitted was validated. No data were rejected; however, portions of the data were qualified due to holding time and calibration issues.

If you have any questions or comments, please feel free to call me.

Sincerely,

William G. Kay, MS

Digitally signed by William G. Kay, MS
DN: CN = William G. Kay, MS, C = US, O = Veridian Environmental, Inc.
Reason: I have reviewed this document
Date: 2007.04.16 17:31:15 -08'00'

William G. Kay, M.S.
Director of Chemistry

Enc.

"Truth through Science"

Veridian Environmental, Inc

QUALITY ASSURANCE REVIEW OF

THE SAMPLES COLLECTED FOR THE

WASTE DISPOSAL INCORPORATED SUPERFUND SITE

SANTA FE SPRINGS, CALIFORNIA

SDGs

P2603371, P2603389, P2603406, P2603461,

P2603502, P2603530, P2700092

Revised - April 16, 2007

Prepared for:

TRC Solutions, Inc.
21 Technology Drive
Irvine, CA 92618

Prepared by:

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(Data included for completeness only; no samples were reviewed in this SDG.)

Section D **Project Correspondence**

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Introduction

This quality assurance review is based upon an examination of the data generated from the analyses of vapor samples collected between December 6, 2006 and January 6, 2007, as part of the Waste Disposal Incorporated Superfund Site in Santa Fe Springs, California. The samples included in this quality assurance review are presented on Table 1.

This review has been performed with guidance from the "National Functional Guidelines for Organic Data Review" (U.S. EPA, October 1999), the Region 9 Data Quality Indicator Tables for EPA Method TO-15 (U.S. EPA, January 1999), and the Quality Assurance Project Plan for the Waste Disposal, Inc. Superfund Site, Santa Fe Springs, California (TRC, revised September 2006).

The reported analytical results are presented on the laboratory Results of Analysis forms included in Section B, "Analytical Results." Data were examined to determine the usability of the analytical results and compliance relative to requirements specified by EPA methodology. In addition, the deliverables, which were prepared in a Contract Laboratory Program-like format, were evaluated. Qualifier codes have been manually placed next to results on the analysis reports, where necessary, so that the data user can quickly assess the qualitative and/or quantitative reliability of any result based on the criteria evaluated. Details of this QA review are presented in the narrative section of this report.

This critical QA review identifies data quality issues for specific samples and specific evaluation criteria. The data qualifications allow the data end-user to best understand the usability of the analytical results. Data that have not been qualified in this report should be considered valid based on the QC criteria that have been applied.

TABLE 1

SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

TRC Sample Identification	Laboratory Sample Number	SDG	Date Sampled	Parameter(s) Examined
WDI-VW-29-S-12-06-06	P2603371-001	P2603371	12/06/06	CH, FG, TO
WDI-VW-29-I-12-06-06	P2603371-002	P2603371	12/06/06	CH, FG, TO
WDI-VW-29-I-12-06-06 (Laboratory Duplicate)	P2603371-002 DUP	P2603371	12/06/06	FG
WDI-VW-29-D12-06-06	P2603371-003	P2603371	12/06/06	CH, FG, TO
WDI-VW-46-S-12-06-06	P2603371-004	P2603371	12/06/06	CH, FG, TO
WDI-VW-46-D-12-06-06	P2603371-005	P2603371	12/06/06	CH, FG, TO
WDI-VW-46-D-12-06-06-SC	P2603371-006	P2603371	12/06/06	CH, FG, TO
WDI-VW-46-I-12-06-06	**P2603371-007**	**P2603371**	**12/06/06**	**CH, FG, TO**
WDI-VW-46-I-12-06-06 (Laboratory Duplicate)	P2603371-007 DUP	P2603371	12/06/06	TO
WDI-IBM-41-12-06-06	**P2603371-008**	**P2603371**	**12/06/06**	**CH, FG, TO, TO***
WDI-IBM-32-12-06-06	P2603371-009	P2603371	12/06/06	CH, FG, TO, TO*
WDI-IBM-32-12-06-06 (Laboratory Duplicate)	P2603371-009 DUP	P2603371	12/06/06	TO*
WDI-IBM-49-12-06-06	P2603371-010	P2603371	12/06/06	CH, FG, TO, TO*
WDI-IBM-49-12-06-06 (Laboratory Duplicate)	P2603371-010 DUP	P2603371	12/06/06	TO
WDI-IBM-21-12-06-06	P2603371-011	P2603371	12/06/06	CH, FG, TO, TO*
WDI-VW-56-S-12-08-06	P2603389-001	P2603389	12/08/06	CH, FG, TO
WDI-VW-56-S-12-08-06-SC	P2603389-002	P2603389	12/08/06	CH, FG, TO
WDI-VW-56-I-12-08-06	P2603389-003	P2603389	12/08/06	CH, FG, TO
WDI-VW-56-D-12-08-06	P2603389-004	P2603389	12/08/06	CH, FG, TO
WDI-IBM-50-12-10-06	P2603406-001	P2603406	12/10/06	CH, FG, TO, TO*
WDI-IBM-28-12-10-06	P2603406-002	P2603406	12/10/06	CH, FG, TO, TO*

TABLE 1 (Cont.)

TRC Sample Identification	Laboratory Sample Number	SDG	Date Sampled	Parameter(s) Examined
WDI-IBM-28-12-10-06	P2603406-002	P2603406	12/10/06	TO*
WDI-IBM-24-12-10-06	P2603406-003	P2603406	12/10/06	CH, FG, TO, TO*
WDI-IBM-24-12-10-06 (Laboratory Duplicate)	P2603406-003 DUP	P2603406	12/10/06	TO
WDI-IBM-24B-12-10-06	P2603406-004	P2603406	12/10/06	CH, FG, TO, TO*
WDI-IBM-24B-12-10-06 (Laboratory Duplicate)	P2603406-004 DUP	P2603406	12/10/06	FG
WDI-IBM-03B-12-10-06	**P2603406-005**	**P2603406**	**12/10/06**	**CH, FG, TO, TO***
WDI-IBM-03B-12-10-06 (Laboratory Duplicate)	P2603406-005 DUP	P2603406	12/10/06	CH, TO
WDI-IBM-50-12-10-06 SC	P2603406-006	P2603406	12/10/06	CH, FG, TO, TO*
WDI-VW-31-S-12-12-06	**P2603406-007**	**P2603406**	**12/12/06**	**CH, FG, TO**
WDI-VW-31-D-12-12-06	P2603406-008	P2603406	12/12/06	CH, FG, TO
WDI-VW-34-D-12-12-06	P2603406-009	P2603406	12/12/06	CH, FG, TO
WDI-VW-34-I-12-12-06	P2603406-010	P2603406	12/12/06	CH, FG, TO
WDI-VW-34-I-12-12-06 (Laboratory Duplicate)	P2603406-010 DUP	P2603406	12/12/06	TO
WDI-VW-34-S-12-12-06	P2603406-011	P2603406	12/12/06	CH, FG, TO
WDI-VW-34-I-12-12-06 SC	P2603406-012	P2603406	12/12/06	CH, FG, TO
WDI-VW-35-S-12-12-06	P2603461-001	P2603461	12/12/06	CH, FG, TO
WDI-VW-35-D-12-12-06	P2603461-002	P2603461	12/12/06	CH, FG, TO
WDI-VW-35-D-12-12-06 (Laboratory Duplicate)	P2603461-002 DUP	P2603461	12/12/06	FG
WDI-VW-58-I-12-14-06	P2603461-003	P2603461	12/14/06	CH, FG, TO
WDI-VW-58-S-12-14-06	P2603461-004	P2603461	12/14/06	CH, FG, TO
WDI-VW-58-S-12-14-06 (Laboratory Duplicate)	P2603461-004 DUP	P2603461	12/14/06	TO
WDI-VW-58-S-12-14-06 SC	P2603461-005	P2603461	12/14/06	CH, FG, TO

TABLE 1 (Cont.)

TRC Sample Identification	Laboratory Sample Number	SDG	Date Sampled	Parameter(s) Examined
WDI-VW-58-D-12-14-06	P2603461-006	P2603461	12/14/06	CH, FG, TO
WDI-VW-39-S-12-14-06	P2603461-007	P2603461	12/14/06	CH, FG, TO
WDI-VW-39-D-12-14-06	P2603461-008	P2603461	12/14/06	CH, FG, TO
WDI-VW-38-S-12-14-06	P2603461-009	P2603461	12/14/06	CH, FG, TO
WDI-VW-38-D-12-14-06	**P2603461-010**	**P2603461**	**12/14/06**	**CH, FG, TO**
WDI-VW-38-D-12-14-06 (Laboratory Duplicate)	P2603461-010 DUP	P2603461	12/14/06	CH
WDI-VW-49-S-12-19-06	P2603502-001	P2603502	12/19/06	CH, FG, TO
WDI-VW-49-S-12-19-06 (Laboratory Duplicate)	P2603502-001 DUP	P2603502	12/19/06	FG
WDI-VW-49-I-12-19-06	P2603502-002	P2603502	12/19/06	CH, FG, TO
WDI-VW-49-D-12-19-06	P2603502-003	P2603502	12/19/06	CH, FG, TO
WDI-VW-55-I-12-19-06	P2603502-004	P2603502	12/19/06	CH, FG, TO
WDI-VW-55-I-12-19-06 (Laboratory Duplicate)	P2603502-004 DUP	P2603502	12/19/06	CH, TO
WDI-VW-55-I-12-19-06-SC	P2603502-005	P2603502	12/19/06	CH, FG, TO
WDI-VW-55-S-12-19-06	**P2603502-006**	**P2603502**	**12/19/06**	**CH, FG, TO**
WDI-VW-55-S-12-19-06 (Laboratory Duplicate)	P2603502-006 DUP	P2603502	12/19/06	TO
WDI-VW-55-D-12-19-06	P2603502-007	P2603502	12/19/06	CH, FG, TO
WDI-VW-41-S-12-19-06	P2603502-008	P2603502	12/19/06	CH, FG, TO
WDI-VW-41-D-12-19-06	P2603502-009	P2603502	12/19/06	CH, FG, TO
WDI-VW-37-S-12-20-06	P2603502-010	P2603502	12/20/06	CH, FG, TO
WDI-VW-37-D-12-20-06	P2603502-011	P2603502	12/20/06	CH, FG, TO
WDI-VW-61-S-12-20-06	P2603530-001	P2603530	12/20/06	CH, FG, TO
WDI-VW-61-I-12-20-06	P2603530-002	P2603530	12/20/06	CH, FG, TO
WDI-VW-61-I-12-20-06 (Laboratory Duplicate)	P2603530-002 DUP	P2603530	12/20/06	FG

TABLE 1 (Cont.)

TRC Sample Identification	Laboratory Sample Number	SDG	Date Sampled	Parameter(s) Examined
WDI-VW-61-D-12-20-06	**P2603530-003**	**P2603530**	**12/20/06**	**CH, FG, TO**
WDI-VW-51-S-12-21-06	P2603530-004	P2603530	12/21/06	CH, FG, TO
WDI-VW-51-S-12-21-06 (Laboratory Duplicate)	P2603530-004 DUP	P2603530	12/21/06	CH
WDI-VW-51-I-12-21-06	P2603530-005	P2603530	12/21/06	CH, FG, TO
WDI-VW-51-I-12-21-06 (Laboratory Duplicate)	P2603530-005 DUP	P2603530	12/21/06	TO
WDI-VW-51-D-12-21-06	**P2603530-006**	**P2603530**	**12/21/06**	**CH, FG, TO**
WDI-VW-51-D-12-21-06 (Laboratory Duplicate)	P2603530-006 DUP	P2603530	12/21/06	TO
WDI-VW-30-S-12-21-06	P2603530-007	P2603530	12/21/06	CH, FG, TO
WDI-VW-30-I-12-21-06	P2603530-008	P2603530	12/21/06	CH, FG, TO
WDI-VW-30-D-12-21-06	P2603530-009	P2603530	12/21/06	CH, FG, TO
WDI-VW-62-S-12-21-06	P2603530-010	P2603530	12/21/06	CH, FG, TO
WDI-VW-62-I-12-21-06	P2603530-011	P2603530	12/21/06	CH, FG, TO
WDI-VW-62-D-12-21-06	P2603530-012	P2603530	12/21/06	CH, FG, TO
WDI-VW-62-12-21-06 Ambient	P2603530-013	P2603530	12/21/06	CH, FG, TO
WDI-VW-62-12-21-06 Ambient (Laboratory Duplicate)	P2603530-013 DUP	P2603530	12/21/06	TO
WDI-VW-36-S-12-21-06	P2603530-014	P2603530	12/21/06	CH, FG, TO
WDI-VW-36-D-12-21-06	P2603530-015	P2603530	12/21/06	CH, FG, TO
WDI-VW-42-S-12-22-06	P2603530-016	P2603530	12/22/06	CH, FG, TO
WDI-VW-42-D-12-22-06	P2603530-017	P2603530	12/22/06	CH, FG, TO
WDI-VW-42-12-22-06 Ambient	P2603530-018	P2603530	12/22/06	CH, FG, TO
WDI-VW-25-12-22-06	P2603530-019	P2603530	12/22/06	CH, FG, TO
WDI-VW-Trip Blank -01	P2603530-020	P2603530	12/22/06	CH
WDI-VW- Trip Blank -02	P2603530-021	P2603530	12/22/06	CH

TABLE 1 (Cont.)

TRC Sample Identification	Laboratory Sample Number	SDG	Date Sampled	Parameter(s) Examined
WDI-VW- Trip Blank -03	P2603530-022	P2603530	12/22/06	CH
WDI-IBM-03-1-6-07	P2700092-001	P2700092	01/06/07	CH, FG, TO
WDI-IBM-03-1-6-07 (Laboratory Duplicate)	P2700092-001 DUP	P2700092	01/06/07	FG

Notes:

CH - Methane and Total Gaseous Non-Methane Organics (as Methane) by U.S. EPA (EPA) Method 25C.

FG - Fixed Gases by EPA Method 3C.

TO - Volatile Organic Compounds by Method EPA TO-15.

TO* - Vinyl Chloride and 1,2-Dibromoethane by Method EPA TO-15 SIM.

Samples in **bold** were reviewed.

SECTION A

QUALITY ASSURANCE REVIEW

SECTION A QUALITY ASSURANCE REVIEW

1. Organic Data

The organic analyses of 71 air samples (including QC samples) were performed by Columbia Analytical Services, Inc., located in Simi Valley, California. The vapor samples were collectively analyzed for volatile organics by EPA Method TO-15, for vinyl chloride and 1,2-dibromomethane by EPA Method TO-15 SIM, for methane and total gaseous non-methane organics by EPA Method 25C, and for fixed gases by EPA Method 3C. The parameters for the analyses are specified in Table 1.

The findings offered in this report are based on a comprehensive review of the Level III deliverables for ten percent (10%) of the samples. The samples validated were **WDI-VW-46-I-12-06-06, WDI-IBM-41-12-06-06, WDI-IBM-03B-12-10-06, WDI-VW-31-S-12-12-06, WDI-VW-38-D-12-14-06, WDI-VW-55-S-12-19-06, WDI-VW-61-D-12-20-06,** and **WDI-VW-51-D-12-21-06.** The areas examined included holding times; blank analysis results; surrogate recoveries; laboratory duplicate precision; calibrations; retention time windows and shifts; laboratory control sample (LCS) recoveries; internal standard area counts; analytical sequence; and instrument sensitivity. Those samples validated exhibited the following exceptions. Data usability is addressed subsequently.

Comments

1. Based on the Case Narratives, Sample Acceptance Check Forms, and Chain-of-Custody Records, the samples were received intact and in good condition by the laboratory.

2. Based on the data provided, the samples listed in the following table were analyzed outside of the QAPP-specified 14-day holding time.

Method	SDG	Samples Analyzed Outside of Holding Times
EPA 3C	P2603530	WDI-VW-61-D-12-20-06
EPA 25C	P2603530	WDI-VW-61-D-12-20-06

3. A high percent difference (>10%) was observed for Total Gaseous Nonmethane Organics (TGNMO) as Methane (EPA Method 25C) in the following closing calibration standard. Note that the reported percent difference has the opposite sign (±) than that specified in the method.

SDG	STD CCV (Date)	Instrument	Compound	Reviewer-Corrected Percent Difference
P2603406	STD S14-10110605 (12/19/06)	GC#1	TGNMO-1	−10.7%

4. The reported continuing calibrations for Methods 3C and 25C did not include all associated standards for all of the samples. Laboratory personnel verified that only the opening and closing standards were reported on the summary forms. Upon request, the laboratory issued revised case narratives which noted this issue and confirmed that all associated calibrations not previously summarized met method requirements.

5. Due to high concentrations of methane in the samples listed in the following table, the methane analysis was performed by EPA Method 3C instead of EPA Method 25C.

SDG	Samples
P2603502	**WDI-VW-55-S-12-19-06**
P2603530	**WDI-VW-51-D-12-21-06**

6. High percent differences (>30%) were noted for the following analytes in the Method TO-15 continuing calibrations listed below. Note that the reported percent difference has the opposite sign (±) than that specified in the method.

SDG	CCV Date (Time)	Instrument	Analyte	Reviewer-Corrected Percent Difference
P2603406	12/19/06 (19:58)	MS08	Vinyl chloride	−31.7%
P2603530	12/29/06 (21:19)	MS08	Trichlorotrifluoroethane	−33.8%

With regard to data usability, the areas of concern are holding times and continuing calibration issues. Based upon a rigorous review of the data provided, the following organic chemistry data qualifiers are offered. It should be noted that the following data usability issues represent an interpretation of the QC results for the project samples. Quite often, data qualifications address issues relating to problems associated with the sample matrix. Similarly, the validation guidelines routinely specify areas of the data that require qualification for which the analytical methods applied do not require corrective action by the laboratory. Accordingly, the following data usability issues should not be construed as an indication of laboratory performance.

Organic Data Qualifiers

- The data for all analytes in the samples listed below may be higher than reported (UJ/J). These samples were analyzed and/or reanalyzed beyond the QAPP-specified holding time of 14 days after sample collection. Although the data have been qualified according to protocol, there is evidence that some of the target analytes may be stable in the sample container over longer periods of time. Consequently, the data may be valid as reported.

Method	SDG	Sample(s) With Biased Detection Limits (UJ) and Estimated Positive Results (J)
EPA 3C	P2603530	**WDI-VW-61-D-12-20-06**
EPA 25C	P2603530	**WDI-VW-61-D-12-20-06**

- The data for the following analytes in the samples listed below may be higher than reported (UJ/J) by the laboratory, due to high percent differences coupled with decreases in instrument sensitivity in the following continuing calibration standards.

Method	SDG	Instrument Date (Time)	Analyte	Sample(s) With Estimated Results (J/UJ)
EPA 25C	P2603406	GC#1 12/19/06	TGNMO	**WDI-IBM-03B-12-10-06** **WDI-VW-31-S-12-12-06**
TO-15	P2603406	MS08 12/19/06 (19:58)	Vinyl Chloride	**WDI-IBM-03B-12-10-06** **WDI-VW-31-S-12-12-06**
TO-15	P2603530	MS08 12/29/06 (21:19)	Trichlorotrifluoroethane	**WDI-VW-61-D-12-20-06**

2. ***Conclusions***

Based on this QA review, several organic results required qualification due to holding time and calibration issues. To confidently use any of the analytical data within this sample set, the data user should understand the qualifications and limitations of the results. The data validation support documentation, laboratory case narratives, and project chain-of-custody records are provided in Section C. Project correspondence is provided in Section D.

Report validated and prepared by:

Tracy A. Young

Digitally signed by Tracy A. Young
DN: CN = Tracy A. Young, C = US, O = Veridian Environmental, Inc.
Reason: I am the author of this document
Date: 2007.04.16 17:29:52 -08'00'

Tracy A. Young
Quality Assurance Chemist

Report approved by:

William G. Kay, MS

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William G. Kay II
Director of Chemistry

VERIDIAN ENVIRONMENTAL, INC.
1111 Kennedy Place
Suite 2
Davis, California 95616
(530) 758-1903

Date: April 16, 2007

ORGANIC DATA QUALIFIERS

J Quantitation is approximate due to limitations identified during the quality assurance review (data validation).

UJ This compound was not detected, but the quantitation limit is probably higher due to a low bias identified during the quality assurance review.

SECTION B

ANALYTICAL RESULTS

1. SDG P2603371

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-29-S-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-001

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00365

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.0 Pf 1 = 4.0

D.F. = 1.60

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**18.4**	0.16	
7727-37-9	Nitrogen	**79.4**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**2.12**	0.16	

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

Verified By: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-29-I-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-002

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00581

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.2 Pf 1 = 3.5

D.F. = 1.58

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**8.76**	0.16	
7727-37-9	Nitrogen	**84.2**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**7.05**	0.16	

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

Verified By: MW Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-29-I-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-002DUP

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00581

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.2 Pf 1 = 3.5

D.F. = 1.58

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**8.78**	0.16	
7727-37-9	Nitrogen	**84.2**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**7.01**	0.16	

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

Verified By: WJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-29-D-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-003

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00225

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.2 Pf 1 = 3.5

D.F. = 1.58

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**7.00**	0.16	
7727-37-9	Nitrogen	**83.3**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**9.72**	0.16	

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

Verified By: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-46-S-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-004

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00842

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -1.7 Pf 1 = 3.5

D.F. = 1.40

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.14	
7782-44-7 7440-37-1	Oxygen + Argon *	**14.8**	0.14	
7727-37-9	Nitrogen	**83.8**	0.14	
630-08-0	Carbon Monoxide	ND	0.14	
124-38-9	Carbon Dioxide	**1.29**	0.14	

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: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-46-D-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-005

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00759

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -1.9 Pf 1 = 3.5

D.F. = 1.42

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.14	
7782-44-7 7440-37-1	Oxygen + Argon *	**9.62**	0.14	
7727-37-9	Nitrogen	**81.9**	0.14	
630-08-0	Carbon Monoxide	ND	0.14	
124-38-9	Carbon Dioxide	**8.48**	0.14	

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: MW Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-46-D-12-06-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-006

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00713

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = 0.9 Pf 1 = 3.6

D.F. = 1.17

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.12	
7782-44-7 7440-37-1	Oxygen + Argon *	**11.5**	0.12	
7727-37-9	Nitrogen	**81.4**	0.12	
630-08-0	Carbon Monoxide	ND	0.12	
124-38-9	Carbon Dioxide	**7.12**	0.12	

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: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-46-I-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-007

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00097

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -1.9 Pf 1 = 3.5

D.F. = 1.42

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.14	
7782-44-7 7440-37-1	Oxygen + Argon *	**10.1**	0.14	
7727-37-9	Nitrogen	**82.1**	0.14	
630-08-0	Carbon Monoxide	ND	0.14	
124-38-9	Carbon Dioxide	**7.71**	0.14	

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: MW Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-41-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-008

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

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.7 Pf 1 = 3.5
D.F. = 1.52

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 *	**22.1**	0.15	
7727-37-9	Nitrogen	**77.8**	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: MS Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-32-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-009

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

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.5 Pf 1 = 3.6

D.F. = 1.50

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 *	**22.1**	0.15	
7727-37-9	Nitrogen	**77.8**	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: MJ Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-49-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-010

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

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.3 Pf 1 = 3.5

D.F. = 1.47

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 *	**22.1**	0.15	
7727-37-9	Nitrogen	**77.8**	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: [illegible] Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-21-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-011

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

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.6 Pf 1 = 3.6

D.F. = 1.65

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.17	
7782-44-7 7440-37-1	Oxygen + Argon *	**22.2**	0.17	
7727-37-9	Nitrogen	**77.7**	0.17	
630-08-0	Carbon Monoxide	ND	0.17	
124-38-9	Carbon Dioxide	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.
* = Coeluting Compounds

Verified By: W Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-29-S-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-001

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00365

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.0 Pf 1 = 4.0
D.F. = 1.60

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	1.4	0.80	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.6	

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

Verified By: MV Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-29-I-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-002

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00581

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.2 Pf 1 = 3.5
D.F. = 1.58

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.79	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.0**	1.6	

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

Verified By: MS Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-29-D-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-003

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00225

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.2 Pf 1 = 3.5
D.F. = 1.58

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.79	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.7**	1.6	

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

Verified By: MS Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-S-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-004

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00842

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -1.7 Pf 1 = 3.5
D.F. = 1.40

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1,600**	0.70	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.4	

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

Verified By: W Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-S-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-004DUP

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00842

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -1.7 Pf 1 = 3.5
D.F. = 1.40

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1,600**	0.70	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.4	

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

Verified By: MW Date: 12/22/06

03371SVG.RE1 -Dup (4)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-D-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-005

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00759

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -1.9 Pf 1 = 3.5
D.F. = 1.42

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**0.90**	0.71	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.1**	1.4	

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

Verified By: W Date: 12/22/06

03371SVG.RE1 -Sample (5)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-D-12-06-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-006

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00713

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = 0.9 Pf 1 = 3.6
D.F. = 1.17

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.1**	0.59	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.2**	1.2	

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: ___ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-I-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-007

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00097

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -1.9 Pf 1 = 3.5
D.F. = 1.42

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.2**	0.71	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.1**	1.4	

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

Verified By: WJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-41-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-008

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

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.7 Pf 1 = 3.5
D.F. = 1.52

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**3.7**	0.76	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**6.3**	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: W Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-32-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-009

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

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.5 Pf 1 = 3.6
D.F. = 1.50

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**11**	0.75	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	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: W Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-010

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

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.3 Pf 1 = 3.5
D.F. = 1.47

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**3.3**	0.74	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	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: μ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-21-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-011

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

Date Collected: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.6 Pf 1 = 3.6
D.F. = 1.65

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**3.0**	0.83	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**55**	1.7	

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: W Date: 12/22/06

03371SVG RE1 -Sample (11)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-29-S-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-001

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: SC00365

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/12/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.0 Pf 1 = 4.0

Can D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.78	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.63	
74-83-9	Bromomethane	ND	1.6	ND	0.41	
75-00-3	Chloroethane	ND	1.6	ND	0.61	
67-64-1	Acetone	**14**	8.0	**6.0**	3.4	**M**
75-69-4	Trichlorofluoromethane	**1.7**	1.6	**0.30**	0.28	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.40	
75-09-2	Methylene chloride	ND	1.6	ND	0.46	
76-13-1	Trichlorotrifluoroethane	**5.4**	1.6	**0.70**	0.21	
75-15-0	Carbon Disulfide	ND	1.6	ND	0.51	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	ND	0.40	
75-34-3	1,1-Dichloroethane	ND	1.6	ND	0.40	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	ND	0.44	
108-05-4	Vinyl Acetate	ND	1.6	ND	0.45	
78-93-3	2-Butanone (MEK)	**1.9**	1.6	**0.65**	0.54	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	ND	0.40	
67-66-3	Chloroform	ND	1.6	ND	0.33	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.40	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.29	
71-43-2	Benzene	**2.6**	1.6	**0.81**	0.50	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.25	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.35	

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.

Verified By: MJ Date: 12/23/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-29-S-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-001

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: SC00365

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/12/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.0 Pf 1 = 4.0

Can D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	ND	1.6	ND	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.35	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.39	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.35	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.29	
108-88-3	Toluene	**5.9**	1.6	**1.6**	0.42	
591-78-6	2-Hexanone	ND	1.6	ND	0.39	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	**2.1**	1.6	**0.31**	0.24	
108-90-7	Chlorobenzene	ND	1.6	ND	0.35	
100-41-4	Ethylbenzene	**1.9**	1.6	**0.45**	0.37	
179601-23-1	*m,p*-Xylenes	**5.9**	1.6	**1.4**	0.37	
75-25-2	Bromoform	ND	1.6	ND	0.15	
100-42-5	Styrene	ND	1.6	ND	0.38	
95-47-6	o-Xylene	**2.0**	1.6	**0.45**	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.23	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.27	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.27	

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: MS Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-29-I-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-002

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: SC00581

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/12/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.2 Pf 1 = 3.5

Can D.F. = 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**4.3**	1.6	**2.1**	0.77	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.62	
74-83-9	Bromomethane	ND	1.6	ND	0.41	
75-00-3	Chloroethane	ND	1.6	ND	0.60	
67-64-1	Acetone	**10**	7.9	**4.3**	3.3	
75-69-4	Trichlorofluoromethane	**3.2**	1.6	**0.56**	0.28	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.40	
75-09-2	Methylene chloride	ND	1.6	ND	0.45	
76-13-1	Trichlorotrifluoroethane	**37**	1.6	**4.8**	0.21	
75-15-0	Carbon Disulfide	**2.1**	1.6	**0.68**	0.51	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	ND	0.40	
75-34-3	1,1-Dichloroethane	ND	1.6	ND	0.39	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	ND	0.44	
108-05-4	Vinyl Acetate	**1.6**	1.6	**0.46**	0.45	**M**
78-93-3	2-Butanone (MEK)	ND	1.6	ND	0.54	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	ND	0.40	
67-66-3	Chloroform	**2.9**	1.6	**0.60**	0.32	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.39	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.29	
71-43-2	Benzene	ND	1.6	ND	0.49	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.25	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.34	

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.

Verified By: NS Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-29-I-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-002

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: SC00581

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/12/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.2 Pf 1 = 3.5

Can D.F. = 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	ND	1.6	ND	0.29	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.35	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.39	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.35	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.29	
108-88-3	Toluene	**3.1**	1.6	**0.83**	0.42	
591-78-6	2-Hexanone	ND	1.6	ND	0.39	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	**26**	1.6	**3.8**	0.23	
108-90-7	Chlorobenzene	ND	1.6	ND	0.34	
100-41-4	Ethylbenzene	ND	1.6	ND	0.36	
179601-23-1	*m,p*-Xylenes	**4.5**	1.6	**1.0**	0.36	
75-25-2	Bromoform	ND	1.6	ND	0.15	
100-42-5	Styrene	ND	1.6	ND	0.37	
95-47-6	o-Xylene	ND	1.6	ND	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.23	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.26	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.26	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.26	

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: MS Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-29-D-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-003

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: SC00225

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/12/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.2 Pf 1 = 3.5

Can D.F. = 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.77	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.62	
74-83-9	Bromomethane	ND	1.6	ND	0.41	
75-00-3	Chloroethane	ND	1.6	ND	0.60	
67-64-1	Acetone	ND	7.9	ND	3.3	
75-69-4	Trichlorofluoromethane	**3.2**	1.6	**0.57**	0.28	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.40	
75-09-2	Methylene chloride	ND	1.6	ND	0.45	
76-13-1	Trichlorotrifluoroethane	**62**	1.6	**8.2**	0.21	
75-15-0	Carbon Disulfide	**2.7**	1.6	**0.88**	0.51	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	ND	0.40	
75-34-3	1,1-Dichloroethane	ND	1.6	ND	0.39	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	ND	0.44	
108-05-4	Vinyl Acetate	ND	1.6	ND	0.45	
78-93-3	2-Butanone (MEK)	ND	1.6	ND	0.54	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	ND	0.40	
67-66-3	Chloroform	**7.4**	1.6	**1.5**	0.32	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.39	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.29	
71-43-2	Benzene	**2.0**	1.6	**0.62**	0.49	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.25	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.34	

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: [illegible] Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-29-D-12-06-06
Client Project ID: WDI

CAS Project ID: P2603371
CAS Sample ID: P2603371-003

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: SC00225

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/12/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.2 Pf 1 = 3.5

Can D.F. = 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	**2.3**	1.6	**0.42**	0.29	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.35	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.39	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.35	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.29	
108-88-3	Toluene	**4.7**	1.6	**1.3**	0.42	
591-78-6	2-Hexanone	ND	1.6	ND	0.39	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	**57**	1.6	**8.4**	0.23	
108-90-7	Chlorobenzene	ND	1.6	ND	0.34	
100-41-4	Ethylbenzene	**2.1**	1.6	**0.49**	0.36	
179601-23-1	*m,p* -Xylenes	**6.0**	1.6	**1.4**	0.36	
75-25-2	Bromoform	ND	1.6	ND	0.15	
100-42-5	Styrene	ND	1.6	ND	0.37	
95-47-6	o-Xylene	**2.0**	1.6	**0.46**	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.23	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.26	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.26	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.26	

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: MJ Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-S-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-004

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: SC00842

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Pi 1 = -1.7 Pf 1 = 3.5

Can D.F. = 1.40

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.4	ND	0.68	
75-01-4	Vinyl Chloride	ND	1.4	ND	0.55	
74-83-9	Bromomethane	ND	1.4	ND	0.36	
75-00-3	Chloroethane	ND	1.4	ND	0.53	
67-64-1	Acetone	**25**	7.0	**11**	2.9	**M**
75-69-4	Trichlorofluoromethane	**250**	1.4	**45**	0.25	
75-35-4	1,1-Dichloroethene	ND	1.4	ND	0.35	
75-09-2	Methylene chloride	ND	1.4	ND	0.40	
76-13-1	Trichlorotrifluoroethane	**3.5**	1.4	**0.46**	0.18	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.45	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.35	
75-34-3	1,1-Dichloroethane	**4.2**	1.4	**1.0**	0.35	
1634-04-4	Methyl tert-Butyl Ether	ND	1.4	ND	0.39	
108-05-4	Vinyl Acetate	ND	1.4	ND	0.40	
78-93-3	2-Butanone (MEK)	**3.3**	1.4	**1.1**	0.47	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	ND	0.35	
67-66-3	Chloroform	ND	1.4	ND	0.29	
107-06-2	1,2-Dichloroethane	ND	1.4	ND	0.35	
71-55-6	1,1,1-Trichloroethane	**27**	1.4	**4.9**	0.26	
71-43-2	Benzene	**3.0**	1.4	**0.94**	0.44	
56-23-5	Carbon Tetrachloride	ND	1.4	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	1.4	ND	0.30	

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.

Verified By: M Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-S-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-004

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: SC00842

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Pi 1 = -1.7 Pf 1 = 3.5

Can D.F. = 1.40

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.4	ND	0.21	
79-01-6	Trichloroethene	ND	1.4	ND	0.26	
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	ND	0.31	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.34	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	ND	0.31	
79-00-5	1,1,2-Trichloroethane	ND	1.4	ND	0.26	
108-88-3	Toluene	**8.4**	1.4	**2.2**	0.37	
591-78-6	2-Hexanone	ND	1.4	ND	0.34	
124-48-1	Dibromochloromethane	ND	1.4	ND	0.16	
106-93-4	1,2-Dibromoethane	ND	1.4	ND	0.18	
127-18-4	Tetrachloroethene	**4.1**	1.4	**0.60**	0.21	
108-90-7	Chlorobenzene	ND	1.4	ND	0.30	
100-41-4	Ethylbenzene	**1.7**	1.4	**0.40**	0.32	
179601-23-1	*m,p* -Xylenes	**6.2**	1.4	**1.4**	0.32	
75-25-2	Bromoform	ND	1.4	ND	0.14	
100-42-5	Styrene	ND	1.4	ND	0.33	
95-47-6	o-Xylene	**2.1**	1.4	**0.48**	0.32	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.4	ND	0.20	
541-73-1	1,3-Dichlorobenzene	ND	1.4	ND	0.23	
106-46-7	1,4-Dichlorobenzene	ND	1.4	ND	0.23	
95-50-1	1,2-Dichlorobenzene	ND	1.4	ND	0.23	

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: MD Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-D-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-005

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: SC00759

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06
Volume(s) Analyzed: 1.00 Liter(s)
0.010 Liter(s)

Pi 1 = -1.9 Pf 1 = 3.5
Can D.F. = 1.42

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.4	ND	0.69	
75-01-4	Vinyl Chloride	ND	1.4	ND	0.56	
74-83-9	Bromomethane	ND	1.4	ND	0.37	
75-00-3	Chloroethane	ND	1.4	ND	0.54	
67-64-1	Acetone	**27**	7.1	**11**	3.0	
75-69-4	Trichlorofluoromethane	**6,000**	1.4	**1,100**	0.25	
75-35-4	1,1-Dichloroethene	**41**	1.4	**10**	0.36	
75-09-2	Methylene chloride	**14**	1.4	**4.1**	0.41	
76-13-1	Trichlorotrifluoroethane	**120**	1.4	**16**	0.19	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.46	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.36	
75-34-3	1,1-Dichloroethane	ND	1.4	ND	0.35	
1634-04-4	Methyl tert-Butyl Ether	ND	1.4	ND	0.39	
108-05-4	Vinyl Acetate	ND	1.4	ND	0.40	
78-93-3	2-Butanone (MEK)	**1.7**	1.4	**0.59**	0.48	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	ND	0.36	
67-66-3	Chloroform	**2.2**	1.4	**0.44**	0.29	
107-06-2	1,2-Dichloroethane	ND	1.4	ND	0.35	
71-55-6	1,1,1-Trichloroethane	**80**	1.4	**15**	0.26	
71-43-2	Benzene	**2.0**	1.4	**0.64**	0.44	
56-23-5	Carbon Tetrachloride	**1.8**	1.4	**0.28**	0.23	
78-87-5	1,2-Dichloropropane	ND	1.4	ND	0.31	

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: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-46-D-12-06-06
Client Project ID: WDI

CAS Project ID: P2603371
CAS Sample ID: P2603371-005

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: SC00759

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06
Volume(s) Analyzed: 1.00 Liter(s)
0.010 Liter(s)

Pi 1 = -1.9 Pf 1 = 3.5

Can D.F. = 1.42

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.4	ND	0.21	
79-01-6	Trichloroethene	**17**	1.4	**3.1**	0.26	
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	ND	0.31	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	ND	0.31	
79-00-5	1,1,2-Trichloroethane	ND	1.4	ND	0.26	
108-88-3	Toluene	**9.1**	1.4	**2.4**	0.38	
591-78-6	2-Hexanone	ND	1.4	ND	0.35	
124-48-1	Dibromochloromethane	ND	1.4	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.4	ND	0.18	
127-18-4	Tetrachloroethene	**110**	1.4	**16**	0.21	
108-90-7	Chlorobenzene	ND	1.4	ND	0.31	
100-41-4	Ethylbenzene	**1.7**	1.4	**0.40**	0.33	
179601-23-1	*m,p* -Xylenes	**5.7**	1.4	**1.3**	0.33	
75-25-2	Bromoform	ND	1.4	ND	0.14	
100-42-5	Styrene	ND	1.4	ND	0.33	
95-47-6	o-Xylene	**1.7**	1.4	**0.40**	0.33	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.4	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.4	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.4	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.4	ND	0.24	

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: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-D-12-06-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-006

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: SC00713

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06
Volume(s) Analyzed: 0.025 Liter(s)
0.010 Liter(s)

Pi 1 = 0.9 Pf 1 = 3.6

Can D.F. = 1.17

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	47	ND	23	
75-01-4	Vinyl Chloride	ND	47	ND	18	
74-83-9	Bromomethane	ND	47	ND	12	
75-00-3	Chloroethane	ND	47	ND	18	
67-64-1	Acetone	ND	230	ND	99	
75-69-4	Trichlorofluoromethane	**3,600**	47	**640**	8.3	
75-35-4	1,1-Dichloroethene	ND	47	ND	12	
75-09-2	Methylene chloride	ND	47	ND	13	
76-13-1	Trichlorotrifluoroethane	ND	47	ND	6.1	
75-15-0	Carbon Disulfide	ND	47	ND	15	
156-60-5	trans-1,2-Dichloroethene	ND	47	ND	12	
75-34-3	1,1-Dichloroethane	ND	47	ND	12	
1634-04-4	Methyl tert-Butyl Ether	ND	47	ND	13	
108-05-4	Vinyl Acetate	ND	47	ND	13	
78-93-3	2-Butanone (MEK)	ND	47	ND	16	
156-59-2	cis-1,2-Dichloroethene	ND	47	ND	12	
67-66-3	Chloroform	ND	47	ND	9.6	
107-06-2	1,2-Dichloroethane	ND	47	ND	12	
71-55-6	1,1,1-Trichloroethane	ND	47	ND	8.6	
71-43-2	Benzene	ND	47	ND	15	
56-23-5	Carbon Tetrachloride	ND	47	ND	7.4	
78-87-5	1,2-Dichloropropane	ND	47	ND	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.

Verified By: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-D-12-06-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-006

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: SC00713

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06
Volume(s) Analyzed: 0.025 Liter(s)
0.010 Liter(s)

Pi 1 = 0.9 Pf 1 = 3.6

Can D.F. = 1.17

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	47	ND	7.0	
79-01-6	Trichloroethene	ND	47	ND	8.7	
10061-01-5	cis-1,3-Dichloropropene	ND	47	ND	10	
108-10-1	4-Methyl-2-pentanone	ND	47	ND	11	
10061-02-6	trans-1,3-Dichloropropene	ND	47	ND	10	
79-00-5	1,1,2-Trichloroethane	ND	47	ND	8.6	
108-88-3	Toluene	ND	47	ND	12	
591-78-6	2-Hexanone	ND	47	ND	11	
124-48-1	Dibromochloromethane	ND	47	ND	5.5	
106-93-4	1,2-Dibromoethane	ND	47	ND	6.1	
127-18-4	Tetrachloroethene	**99**	47	**15**	6.9	
108-90-7	Chlorobenzene	ND	47	ND	10	
100-41-4	Ethylbenzene	ND	47	ND	11	
179601-23-1	*m,p*-Xylenes	ND	47	ND	11	
75-25-2	Bromoform	ND	47	ND	4.5	
100-42-5	Styrene	ND	47	ND	11	
95-47-6	o-Xylene	ND	47	ND	11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	47	ND	6.8	
541-73-1	1,3-Dichlorobenzene	ND	47	ND	7.8	
106-46-7	1,4-Dichlorobenzene	ND	47	ND	7.8	
95-50-1	1,2-Dichlorobenzene	ND	47	ND	7.8	

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: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-I-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-007

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: SC00097

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06
Volume(s) Analyzed: 0.020 Liter(s)

Pi 1 = -1.9 Pf 1 = 3.5

Can D.F. = 1.42

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	71	ND	34	
75-01-4	Vinyl Chloride	ND	71	ND	28	
74-83-9	Bromomethane	ND	71	ND	18	
75-00-3	Chloroethane	ND	71	ND	27	
67-64-1	Acetone	ND	360	ND	150	
75-69-4	Trichlorofluoromethane	**5,800**	71	**1,000**	13	
75-35-4	1,1-Dichloroethene	ND	71	ND	18	
75-09-2	Methylene chloride	ND	71	ND	20	
76-13-1	Trichlorotrifluoroethane	ND	71	ND	9.3	
75-15-0	Carbon Disulfide	ND	71	ND	23	
156-60-5	trans-1,2-Dichloroethene	ND	71	ND	18	
75-34-3	1,1-Dichloroethane	ND	71	ND	18	
1634-04-4	Methyl tert-Butyl Ether	ND	71	ND	20	
108-05-4	Vinyl Acetate	ND	71	ND	20	
78-93-3	2-Butanone (MEK)	ND	71	ND	24	
156-59-2	cis-1,2-Dichloroethene	ND	71	ND	18	
67-66-3	Chloroform	ND	71	ND	15	
107-06-2	1,2-Dichloroethane	ND	71	ND	18	
71-55-6	1,1,1-Trichloroethane	ND	71	ND	13	
71-43-2	Benzene	ND	71	ND	22	
56-23-5	Carbon Tetrachloride	ND	71	ND	11	
78-87-5	1,2-Dichloropropane	ND	71	ND	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.

Verified By: MS Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-I-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-007

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: SC00097

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06
Volume(s) Analyzed: 0.020 Liter(s)

Pi 1 = -1.9 Pf 1 = 3.5

Can D.F. = 1.42

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	71	ND	11	
79-01-6	Trichloroethene	ND	71	ND	13	
10061-01-5	cis-1,3-Dichloropropene	ND	71	ND	16	
108-10-1	4-Methyl-2-pentanone	ND	71	ND	17	
10061-02-6	trans-1,3-Dichloropropene	ND	71	ND	16	
79-00-5	1,1,2-Trichloroethane	ND	71	ND	13	
108-88-3	Toluene	ND	71	ND	19	
591-78-6	2-Hexanone	ND	71	ND	17	
124-48-1	Dibromochloromethane	ND	71	ND	8.3	
106-93-4	1,2-Dibromoethane	ND	71	ND	9.2	
127-18-4	Tetrachloroethene	**79**	71	**12**	10	
108-90-7	Chlorobenzene	ND	71	ND	15	
100-41-4	Ethylbenzene	ND	71	ND	16	
179601-23-1	*m,p*-Xylenes	ND	71	ND	16	
75-25-2	Bromoform	ND	71	ND	6.9	
100-42-5	Styrene	ND	71	ND	17	
95-47-6	o-Xylene	ND	71	ND	16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	71	ND	10	
541-73-1	1,3-Dichlorobenzene	ND	71	ND	12	
106-46-7	1,4-Dichlorobenzene	ND	71	ND	12	
95-50-1	1,2-Dichlorobenzene	ND	71	ND	12	

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: HU Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-I-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-007DUP

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: SC00097

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06
Volume(s) Analyzed: 0.020 Liter(s)

Pi 1 = -1.9 Pf 1 = 3.5

Can D.F. = 1.42

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	71	ND	34	
75-01-4	Vinyl Chloride	ND	71	ND	28	
74-83-9	Bromomethane	ND	71	ND	18	
75-00-3	Chloroethane	ND	71	ND	27	
67-64-1	Acetone	ND	360	ND	150	
75-69-4	Trichlorofluoromethane	**5,800**	71	**1,000**	13	
75-35-4	1,1-Dichloroethene	ND	71	ND	18	
75-09-2	Methylene chloride	ND	71	ND	20	
76-13-1	Trichlorotrifluoroethane	ND	71	ND	9.3	
75-15-0	Carbon Disulfide	ND	71	ND	23	
156-60-5	trans-1,2-Dichloroethene	ND	71	ND	18	
75-34-3	1,1-Dichloroethane	ND	71	ND	18	
1634-04-4	Methyl tert-Butyl Ether	ND	71	ND	20	
108-05-4	Vinyl Acetate	ND	71	ND	20	
78-93-3	2-Butanone (MEK)	ND	71	ND	24	
156-59-2	cis-1,2-Dichloroethene	ND	71	ND	18	
67-66-3	Chloroform	ND	71	ND	15	
107-06-2	1,2-Dichloroethane	ND	71	ND	18	
71-55-6	1,1,1-Trichloroethane	ND	71	ND	13	
71-43-2	Benzene	ND	71	ND	22	
56-23-5	Carbon Tetrachloride	ND	71	ND	11	
78-87-5	1,2-Dichloropropane	ND	71	ND	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.

Verified By: MV Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-46-I-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-007DUP

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: SC00097

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06
Volume(s) Analyzed: 0.020 Liter(s)

Pi 1 = -1.9 Pf 1 = 3.5

Can D.F. = 1.42

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	71	ND	11	
79-01-6	Trichloroethene	ND	71	ND	13	
10061-01-5	cis-1,3-Dichloropropene	ND	71	ND	16	
108-10-1	4-Methyl-2-pentanone	ND	71	ND	17	
10061-02-6	trans-1,3-Dichloropropene	ND	71	ND	16	
79-00-5	1,1,2-Trichloroethane	ND	71	ND	13	
108-88-3	Toluene	ND	71	ND	19	
591-78-6	2-Hexanone	ND	71	ND	17	
124-48-1	Dibromochloromethane	ND	71	ND	8.3	
106-93-4	1,2-Dibromoethane	ND	71	ND	9.2	
127-18-4	Tetrachloroethene	**78**	71	**12**	10	
108-90-7	Chlorobenzene	ND	71	ND	15	
100-41-4	Ethylbenzene	ND	71	ND	16	
179601-23-1	*m,p*-Xylenes	ND	71	ND	16	
75-25-2	Bromoform	ND	71	ND	6.9	
100-42-5	Styrene	ND	71	ND	17	
95-47-6	o-Xylene	ND	71	ND	16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	71	ND	10	
541-73-1	1,3-Dichlorobenzene	ND	71	ND	12	
106-46-7	1,4-Dichlorobenzene	ND	71	ND	12	
95-50-1	1,2-Dichlorobenzene	ND	71	ND	12	

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: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-41-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-008

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: AC00937

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06
Volume(s) Analyzed: 0.10 Liter(s)
0.0050 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	15	ND	7.4	
75-01-4	Vinyl Chloride	ND	15	ND	5.9	
74-83-9	Bromomethane	ND	15	ND	3.9	
75-00-3	Chloroethane	ND	15	ND	5.8	
67-64-1	Acetone	**4,800**	76	**2,000**	32	
75-69-4	Trichlorofluoromethane	ND	15	ND	2.7	
75-35-4	1,1-Dichloroethene	ND	15	ND	3.8	
75-09-2	Methylene chloride	**200**	15	**56**	4.4	
76-13-1	Trichlorotrifluoroethane	ND	15	ND	2.0	
75-15-0	Carbon Disulfide	ND	15	ND	4.9	
156-60-5	trans-1,2-Dichloroethene	ND	15	ND	3.8	
75-34-3	1,1-Dichloroethane	ND	15	ND	3.8	
1634-04-4	Methyl tert-Butyl Ether	ND	15	ND	4.2	
108-05-4	Vinyl Acetate	ND	15	ND	4.3	
78-93-3	2-Butanone (MEK)	**20**	15	**6.8**	5.2	
156-59-2	cis-1,2-Dichloroethene	ND	15	ND	3.8	
67-66-3	Chloroform	ND	15	ND	3.1	
107-06-2	1,2-Dichloroethane	ND	15	ND	3.8	
71-55-6	1,1,1-Trichloroethane	ND	15	ND	2.8	
71-43-2	Benzene	ND	15	ND	4.8	
56-23-5	Carbon Tetrachloride	ND	15	ND	2.4	
78-87-5	1,2-Dichloropropane	ND	15	ND	3.3	

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: MY Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-32-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-009

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: AC01214

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06 & 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Pi 1 = -2.5 Pf 1 = 3.6

Can D.F. = 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.73	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.59	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.57	
67-64-1	Acetone	**170**	7.5	**70**	3.2	**M**
75-69-4	Trichlorofluoromethane	**5.6**	1.5	**0.99**	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.38	
75-09-2	Methylene chloride	**11**	1.5	**3.2**	0.43	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.48	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.38	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.37	
1634-04-4	Methyl tert-Butyl Ether	**2.4**	1.5	**0.66**	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	**19**	1.5	**6.3**	0.51	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.38	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.37	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**6.2**	1.5	**1.9**	0.47	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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.

Verified By: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-32-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-009

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: AC01214

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/13/06 & 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Pi 1 = -2.5 Pf 1 = 3.6

Can D.F. = 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**40**	1.5	**11**	0.40	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	**6.0**	1.5	**0.88**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**5.4**	1.5	**1.2**	0.35	
179601-23-1	*m,p*-Xylenes	**24**	1.5	**5.5**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.35	
95-47-6	o-Xylene	**8.2**	1.5	**1.9**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	**2.2**	1.5	**0.36**	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: µJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-010

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: AC01101

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.5

Can D.F. = 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.71	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.58	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.56	
67-64-1	Acetone	**44**	7.4	**18**	3.1	**M**
75-69-4	Trichlorofluoromethane	**1.6**	1.5	**0.28**	0.26	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.37	
75-09-2	Methylene chloride	**3.5**	1.5	**1.0**	0.42	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.47	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.37	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.36	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.42	
78-93-3	2-Butanone (MEK)	**5.9**	1.5	**2.0**	0.50	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.36	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**4.8**	1.5	**1.5**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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.

Verified By: MW Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-010

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: AC01101

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.5

Can D.F. = 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.32	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.32	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**19**	1.5	**5.0**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	ND	1.5	ND	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**3.0**	1.5	**0.70**	0.34	
179601-23-1	*m,p* -Xylenes	**13**	1.5	**3.1**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.35	
95-47-6	o-Xylene	**4.5**	1.5	**1.0**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.24	

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: [illegible] Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-010DUP

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: AC01101

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.5

Can D.F. = 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.71	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.58	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.56	
67-64-1	Acetone	**45**	7.4	**19**	3.1	**M**
75-69-4	Trichlorofluoromethane	**1.6**	1.5	**0.29**	0.26	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.37	
75-09-2	Methylene chloride	**3.5**	1.5	**1.0**	0.42	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.47	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.37	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.36	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.42	
78-93-3	2-Butanone (MEK)	**6.1**	1.5	**2.1**	0.50	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.36	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**5.0**	1.5	**1.6**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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.

Verified By: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-010DUP

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: AC01101

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.5

Can D.F. = 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.32	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.32	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**20**	1.5	**5.2**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	**1.5**	1.5	**0.22**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**3.2**	1.5	**0.73**	0.34	
179601-23-1	*m,p* -Xylenes	**14**	1.5	**3.2**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.35	
95-47-6	o-Xylene	**4.6**	1.5	**1.1**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.24	

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: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-21-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-011

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: AC01106

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.6 Pf 1 = 3.6

Can D.F. = 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.7	ND	0.80	
75-01-4	Vinyl Chloride	ND	1.7	ND	0.65	
74-83-9	Bromomethane	ND	1.7	ND	0.43	
75-00-3	Chloroethane	ND	1.7	ND	0.63	
67-64-1	Acetone	**120**	8.3	**53**	3.5	
75-69-4	Trichlorofluoromethane	**3.3**	1.7	**0.58**	0.29	
75-35-4	1,1-Dichloroethene	ND	1.7	ND	0.42	
75-09-2	Methylene chloride	**26**	1.7	**7.4**	0.48	
76-13-1	Trichlorotrifluoroethane	ND	1.7	ND	0.22	
75-15-0	Carbon Disulfide	ND	1.7	ND	0.53	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	ND	0.42	
75-34-3	1,1-Dichloroethane	ND	1.7	ND	0.41	
1634-04-4	Methyl tert-Butyl Ether	**4.5**	1.7	**1.3**	0.46	
108-05-4	Vinyl Acetate	ND	1.7	ND	0.47	
78-93-3	2-Butanone (MEK)	**46**	1.7	**16**	0.56	
156-59-2	cis-1,2-Dichloroethene	ND	1.7	ND	0.42	
67-66-3	Chloroform	ND	1.7	ND	0.34	
107-06-2	1,2-Dichloroethane	ND	1.7	ND	0.41	
71-55-6	1,1,1-Trichloroethane	ND	1.7	ND	0.30	
71-43-2	Benzene	**5.4**	1.7	**1.7**	0.52	
56-23-5	Carbon Tetrachloride	ND	1.7	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	1.7	ND	0.36	

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: MU Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-IBM-21-12-06-06
Client Project ID: WDI

CAS Project ID: P2603371
CAS Sample ID: P2603371-011

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: AC01106

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.6 Pf 1 = 3.6

Can D.F. = 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.7	ND	0.25	
79-01-6	Trichloroethene	ND	1.7	ND	0.31	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	ND	0.36	
108-10-1	4-Methyl-2-pentanone	ND	1.7	ND	0.40	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	ND	0.36	
79-00-5	1,1,2-Trichloroethane	ND	1.7	ND	0.30	
108-88-3	Toluene	**31**	1.7	**8.2**	0.44	
591-78-6	2-Hexanone	ND	1.7	ND	0.40	
124-48-1	Dibromochloromethane	ND	1.7	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.7	ND	0.21	
127-18-4	Tetrachloroethene	**2.1**	1.7	**0.32**	0.24	
108-90-7	Chlorobenzene	ND	1.7	ND	0.36	
100-41-4	Ethylbenzene	**4.3**	1.7	**0.99**	0.38	
179601-23-1	*m,p*-Xylenes	**19**	1.7	**4.4**	0.38	
75-25-2	Bromoform	ND	1.7	ND	0.16	
100-42-5	Styrene	ND	1.7	ND	0.39	
95-47-6	o-Xylene	**6.1**	1.7	**1.4**	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	ND	0.24	
541-73-1	1,3-Dichlorobenzene	ND	1.7	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	1.7	ND	0.27	
95-50-1	1,2-Dichlorobenzene	ND	1.7	ND	0.27	

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: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-41-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-008

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: AC00937

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 0.020 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.9	ND	0.74	
106-93-4	1,2-Dibromoethane	ND	1.9	ND	0.25	

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

Verified By: µs Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-32-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-009

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: AC01214

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 0.70 Liter(s)

Pi 1 = -2.5 Pf 1 = 3.6

Can D.F. = 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	**0.078**	0.054	**0.031**	0.021	
106-93-4	1,2-Dibromoethane	ND	0.054	ND	0.0070	

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: MW Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-32-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-009DUP

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: AC01214

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 0.70 Liter(s)

Pi 1 = -2.5 Pf 1 = 3.6

Can D.F. = 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	**0.079**	0.054	**0.031**	0.021	
106-93-4	1,2-Dibromoethane	ND	0.054	ND	0.0070	

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: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-IBM-49-12-06-06
Client Project ID: WDI

CAS Project ID: P2603371
CAS Sample ID: P2603371-010

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: AC01101

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.5

Can D.F. = 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.037	ND	0.014	
106-93-4	1,2-Dibromoethane	ND	0.037	ND	0.0048	

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: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-21-12-06-06**
Client Project ID: **WDI**

CAS Project ID: P2603371
CAS Sample ID: P2603371-011

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: AC01106

Date Collected: 12/6/06
Date Received: 12/7/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -3.6 Pf 1 = 3.6

Can D.F. = 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.41	ND	0.16	
106-93-4	1,2-Dibromoethane	ND	0.41	ND	0.054	

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: MJ Date: 12/22/06

2. SDG P2603389

Included for completeness only.
No samples were reviewed in SDG.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-56-S-12-08-06**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-001

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00414

Date Collected: 12/8/06
Date Received: 12/11/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.1 Pf 1 = 3.5
D.F. = 1.57

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**4.30**	0.16	
7727-37-9	Nitrogen	**82.9**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**12.8**	0.16	

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

Verified By: MW Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-56-S-12-08-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-002

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00467

Date Collected: 12/8/06
Date Received: 12/11/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.3 Pf 1 = 3.5

D.F. = 1.60

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**3.94**	0.16	
7727-37-9	Nitrogen	**83.1**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**13.0**	0.16	

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

Verified By: WJ Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-56-I-12-08-06**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-003

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00239

Date Collected: 12/8/06
Date Received: 12/11/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.5 Pf 1 = 3.5

D.F. = 1.63

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**2.80**	0.16	
7727-37-9	Nitrogen	**80.1**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**17.1**	0.16	

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

Verified By: W Date: 12/26/06

03389SVG.RE1 - Sample (3)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-56-D-12-08-06**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-004

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00109

Date Collected: 12/8/06
Date Received: 12/11/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.2 Pf 1 = 3.5
D.F. = 1.58

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**3.37**	0.16	
7727-37-9	Nitrogen	**80.1**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**16.5**	0.16	

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

Verified By: MW Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-56-S-12-08-06**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-001

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00414

Date Collected: 12/8/06
Date Received: 12/11/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.1 Pf 1 = 3.5
D.F. = 1.57

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**3.3**	0.79	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**4.3**	1.6	

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

Verified By: N Date: 12/26/06

03389SVG.RE2 -Sample

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-56-S-12-08-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-002

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00467

Date Collected: 12/8/06
Date Received: 12/11/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.3 Pf 1 = 3.5
D.F. = 1.60

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.9**	0.80	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**5.5**	1.6	

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

Verified By: W Date: 12/26/06

03389SVG.RE2 -Sample (2)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-56-I-12-08-06**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-003

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00239

Date Collected: 12/8/06
Date Received: 12/11/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.5 Pf 1 = 3.5
D.F. = 1.63

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**3.8**	0.82	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**6.6**	1.6	

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

Verified By: µw Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-56-D-12-08-06**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-004

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00109

Date Collected: 12/8/06
Date Received: 12/11/06
Date Analyzed: 12/12/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.2 Pf 1 = 3.5
D.F. = 1.58

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**3.6**	0.79	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**7.1**	1.6	

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

Verified By: MW Date: 12/26/06

03389SVG.RE2 -Sample (4)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-56-S-12-08-06
Client Project ID: WDI

CAS Project ID: P2603389
CAS Sample ID: P2603389-001

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: SC00414

Date Collected: 12/8/06
Date Received: 12/11/06
Date(s) Analyzed: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.1 Pf 1 = 3.5

Can D.F. = 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.76	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.61	
74-83-9	Bromomethane	ND	1.6	ND	0.40	
75-00-3	Chloroethane	ND	1.6	ND	0.60	
67-64-1	Acetone	**11**	7.9	**4.8**	3.3	
75-69-4	Trichlorofluoromethane	ND	1.6	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.40	
75-09-2	Methylene chloride	ND	1.6	ND	0.45	
76-13-1	Trichlorotrifluoroethane	ND	1.6	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.6	ND	0.50	
156-60-5	trans-1,2-Dichloroethene	**3.1**	1.6	**0.79**	0.40	
75-34-3	1,1-Dichloroethane	**1.8**	1.6	**0.45**	0.39	
1634-04-4	Methyl tert-Butyl Ether	**120**	1.6	**33**	0.44	
108-05-4	Vinyl Acetate	ND	1.6	ND	0.45	
78-93-3	2-Butanone (MEK)	**2.0**	1.6	**0.67**	0.53	
156-59-2	cis-1,2-Dichloroethene	**89**	1.6	**22**	0.40	
67-66-3	Chloroform	ND	1.6	ND	0.32	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.39	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.29	
71-43-2	Benzene	**6.9**	1.6	**2.1**	0.49	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.25	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.34	

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: LW Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-56-S-12-08-06**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-001

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: SC00414

Date Collected: 12/8/06
Date Received: 12/11/06
Date(s) Analyzed: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.1 Pf 1 = 3.5

Can D.F. = 1.57

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.23	
79-01-6	Trichloroethene	**68**	1.6	**13**	0.29	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.35	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.38	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.35	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.29	
108-88-3	Toluene	**15**	1.6	**4.1**	0.42	
591-78-6	2-Hexanone	ND	1.6	ND	0.38	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.20	
127-18-4	Tetrachloroethene	**89**	1.6	**13**	0.23	
108-90-7	Chlorobenzene	ND	1.6	ND	0.34	
100-41-4	Ethylbenzene	**3.5**	1.6	**0.81**	0.36	
179601-23-1	*m,p*-Xylenes	**14**	1.6	**3.2**	0.36	
75-25-2	Bromoform	ND	1.6	ND	0.15	
100-42-5	Styrene	ND	1.6	ND	0.37	
95-47-6	o-Xylene	**5.0**	1.6	**1.1**	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.23	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.26	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.26	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.26	

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: W Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-56-S-12-08-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-002

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: SC00467

Date Collected: 12/8/06
Date Received: 12/11/06
Date(s) Analyzed: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.3 Pf 1 = 3.5

Can D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.78	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.63	
74-83-9	Bromomethane	ND	1.6	ND	0.41	
75-00-3	Chloroethane	ND	1.6	ND	0.61	
67-64-1	Acetone	**12**	8.0	**5.1**	3.4	
75-69-4	Trichlorofluoromethane	ND	1.6	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.40	
75-09-2	Methylene chloride	ND	1.6	ND	0.46	
76-13-1	Trichlorotrifluoroethane	ND	1.6	ND	0.21	
75-15-0	Carbon Disulfide	ND	1.6	ND	0.51	
156-60-5	trans-1,2-Dichloroethene	**3.2**	1.6	**0.81**	0.40	
75-34-3	1,1-Dichloroethane	**1.8**	1.6	**0.45**	0.40	
1634-04-4	Methyl tert-Butyl Ether	**130**	1.6	**37**	0.44	
108-05-4	Vinyl Acetate	ND	1.6	ND	0.45	
78-93-3	2-Butanone (MEK)	**1.9**	1.6	**0.63**	0.54	
156-59-2	cis-1,2-Dichloroethene	**89**	1.6	**23**	0.40	
67-66-3	Chloroform	ND	1.6	ND	0.33	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.40	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.29	
71-43-2	Benzene	**8.6**	1.6	**2.7**	0.50	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.25	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.35	

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: LU Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-56-S-12-08-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-002

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: SC00467

Date Collected: 12/8/06
Date Received: 12/11/06
Date(s) Analyzed: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.3 Pf 1 = 3.5

Can D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.78	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.63	
74-83-9	Bromomethane	ND	1.6	ND	0.41	
75-00-3	Chloroethane	ND	1.6	ND	0.61	
67-64-1	Acetone	**12**	8.0	**5.1**	3.4	
75-69-4	Trichlorofluoromethane	ND	1.6	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.40	
75-09-2	Methylene chloride	ND	1.6	ND	0.46	
76-13-1	Trichlorotrifluoroethane	ND	1.6	ND	0.21	
75-15-0	Carbon Disulfide	ND	1.6	ND	0.51	
156-60-5	trans-1,2-Dichloroethene	**3.2**	1.6	**0.81**	0.40	
75-34-3	1,1-Dichloroethane	**1.8**	1.6	**0.45**	0.40	
1634-04-4	Methyl tert-Butyl Ether	**130**	1.6	**37**	0.44	
108-05-4	Vinyl Acetate	ND	1.6	ND	0.45	
78-93-3	2-Butanone (MEK)	**1.9**	1.6	**0.63**	0.54	
156-59-2	cis-1,2-Dichloroethene	**89**	1.6	**23**	0.40	
67-66-3	Chloroform	ND	1.6	ND	0.33	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.40	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.29	
71-43-2	Benzene	**8.6**	1.6	**2.7**	0.50	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.25	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.35	

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: LW Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-56-S-12-08-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-002

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: SC00467

Date Collected: 12/8/06
Date Received: 12/11/06
Date(s) Analyzed: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.3 Pf 1 = 3.5

Can D.F. = 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	**72**	1.6	**13**	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.35	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.39	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.35	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.29	
108-88-3	Toluene	**14**	1.6	**3.8**	0.42	
591-78-6	2-Hexanone	ND	1.6	ND	0.39	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	**89**	1.6	**13**	0.24	
108-90-7	Chlorobenzene	ND	1.6	ND	0.35	
100-41-4	Ethylbenzene	**3.2**	1.6	**0.73**	0.37	
179601-23-1	*m,p*-Xylenes	**11**	1.6	**2.6**	0.37	
75-25-2	Bromoform	ND	1.6	ND	0.15	
100-42-5	Styrene	ND	1.6	ND	0.38	
95-47-6	o-Xylene	**3.7**	1.6	**0.85**	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.23	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.27	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.27	

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: µw Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-56-I-12-08-06
Client Project ID: WDI

CAS Project ID: P2603389
CAS Sample ID: P2603389-003

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: SC00239

Date Collected: 12/8/06
Date Received: 12/11/06
Date(s) Analyzed: 12/14/06 & 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Pi 1 = -3.5 Pf 1 = 3.5

Can D.F. = 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.79	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.64	
74-83-9	Bromomethane	ND	1.6	ND	0.42	
75-00-3	Chloroethane	ND	1.6	ND	0.62	
67-64-1	Acetone	**13**	8.2	**5.5**	3.4	
75-69-4	Trichlorofluoromethane	**2.0**	1.6	**0.35**	0.29	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.41	
75-09-2	Methylene chloride	ND	1.6	ND	0.47	
76-13-1	Trichlorotrifluoroethane	**3.1**	1.6	**0.41**	0.21	
75-15-0	Carbon Disulfide	**3.4**	1.6	**1.1**	0.52	
156-60-5	trans-1,2-Dichloroethene	**2.1**	1.6	**0.52**	0.41	
75-34-3	1,1-Dichloroethane	**1.9**	1.6	**0.47**	0.40	
1634-04-4	Methyl tert-Butyl Ether	**43**	1.6	**12**	0.45	
108-05-4	Vinyl Acetate	ND	1.6	ND	0.46	
78-93-3	2-Butanone (MEK)	**5.5**	1.6	**1.9**	0.55	
156-59-2	cis-1,2-Dichloroethene	**28**	1.6	**7.1**	0.41	
67-66-3	Chloroform	**24**	1.6	**4.8**	0.33	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.40	
71-55-6	1,1,1-Trichloroethane	**2.2**	1.6	**0.40**	0.30	
71-43-2	Benzene	**7.0**	1.6	**2.2**	0.51	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.35	

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: µ Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-56-I-12-08-06**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-003

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: SC00239

Date Collected: 12/8/06
Date Received: 12/11/06
Date(s) Analyzed: 12/14/06 & 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Pi 1 = -3.5 Pf 1 = 3.5

Can D.F. = 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	**320**	1.6	**60**	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.36	
108-10-1	4-Methyl-2-pentanone	**2.4**	1.6	**0.58**	0.40	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.36	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.30	
108-88-3	Toluene	**46**	1.6	**12**	0.43	
591-78-6	2-Hexanone	ND	1.6	ND	0.40	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	**52**	1.6	**7.7**	0.24	
108-90-7	Chlorobenzene	ND	1.6	ND	0.35	
100-41-4	Ethylbenzene	**11**	1.6	**2.5**	0.38	
179601-23-1	*m,p*-Xylenes	**18**	1.6	**4.1**	0.38	
75-25-2	Bromoform	ND	1.6	ND	0.16	
100-42-5	Styrene	ND	1.6	ND	0.38	
95-47-6	o-Xylene	**4.4**	1.6	**1.0**	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.24	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.27	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.27	

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: MJ Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-56-D-12-08-06**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-004

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: SC00109

Date Collected: 12/8/06
Date Received: 12/11/06
Date(s) Analyzed: 12/14/06 & 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Pi 1 = -3.2 Pf 1 = 3.5

Can D.F. = 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.77	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.62	
74-83-9	Bromomethane	ND	1.6	ND	0.41	
75-00-3	Chloroethane	ND	1.6	ND	0.60	
67-64-1	Acetone	ND	7.9	ND	3.3	
75-69-4	Trichlorofluoromethane	**2.0**	1.6	**0.36**	0.28	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.40	
75-09-2	Methylene chloride	ND	1.6	ND	0.45	
76-13-1	Trichlorotrifluoroethane	**2.7**	1.6	**0.35**	0.21	
75-15-0	Carbon Disulfide	**4.4**	1.6	**1.4**	0.51	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	ND	0.40	
75-34-3	1,1-Dichloroethane	**1.7**	1.6	**0.43**	0.39	
1634-04-4	Methyl tert-Butyl Ether	**32**	1.6	**9.0**	0.44	
108-05-4	Vinyl Acetate	ND	1.6	ND	0.45	
78-93-3	2-Butanone (MEK)	**2.1**	1.6	**0.72**	0.54	
156-59-2	cis-1,2-Dichloroethene	**19**	1.6	**4.8**	0.40	
67-66-3	Chloroform	**28**	1.6	**5.8**	0.32	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.39	
71-55-6	1,1,1-Trichloroethane	**2.4**	1.6	**0.44**	0.29	
71-43-2	Benzene	**4.9**	1.6	**1.5**	0.49	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.25	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.34	

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: w Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-56-D-12-08-06**
Client Project ID: **WDI**

CAS Project ID: P2603389
CAS Sample ID: P2603389-004

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: SC00109

Date Collected: 12/8/06
Date Received: 12/11/06
Date(s) Analyzed: 12/14/06 & 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Pi 1 = -3.2 Pf 1 = 3.5

Can D.F. = 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	**340**	1.6	**64**	0.29	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.35	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.39	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.35	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.29	
108-88-3	Toluene	**11**	1.6	**3.0**	0.42	
591-78-6	2-Hexanone	ND	1.6	ND	0.39	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	**71**	1.6	**10**	0.23	
108-90-7	Chlorobenzene	ND	1.6	ND	0.34	
100-41-4	Ethylbenzene	**3.2**	1.6	**0.74**	0.36	
179601-23-1	*m,p*-Xylenes	**13**	1.6	**3.0**	0.36	
75-25-2	Bromoform	ND	1.6	ND	0.15	
100-42-5	Styrene	ND	1.6	ND	0.37	
95-47-6	o-Xylene	**4.6**	1.6	**1.0**	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.23	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.26	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.26	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.26	

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: LW Date: 12/26/06

3. SDG P2603406

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-50-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-001

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.7 Pf 1 = 3.6

D.F. = 1.66

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.17	
7782-44-7 7440-37-1	Oxygen + Argon *	**22.1**	0.17	
7727-37-9	Nitrogen	**77.8**	0.17	
630-08-0	Carbon Monoxide	ND	0.17	
124-38-9	Carbon Dioxide	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.
* = Coeluting Compounds

Verified By: R.- Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-28-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-002

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.2 Pf 1 = 3.6
D.F. = 1.59

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**22.2**	0.16	
7727-37-9	Nitrogen	**77.8**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	ND	0.16	

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

Verified By: RG Date: 12/28/06

03406SVG.RD2 - Sample (2)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-24-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-003

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.7 Pf 1 = 3.5
Pi 2 = -1.7 Pf 2 = 2.4 D.F. = 2.00

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.20	
7782-44-7 7440-37-1	Oxygen + Argon *	**22.2**	0.20	
7727-37-9	Nitrogen	**77.7**	0.20	
630-08-0	Carbon Monoxide	ND	0.20	
124-38-9	Carbon Dioxide	ND	0.20	

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: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-24B-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-004

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.5 Pf 1 = 3.5

D.F. = 1.49

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	**77.8**	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: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-24B-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-004DUP

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.5 Pf 1 = 3.5

D.F. = 1.49

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	**77.8**	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: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-03B-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-005

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.6 Pf 1 = 3.8
Pi 2 = -2.2 Pf 2 = 1.4 D.F. = 1.97

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.20	
7782-44-7 7440-37-1	Oxygen + Argon *	**22.2**	0.20	
7727-37-9	Nitrogen	**77.7**	0.20	
630-08-0	Carbon Monoxide	ND	0.20	
124-38-9	Carbon Dioxide	ND	0.20	

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: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-50-12-10-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-006

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
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: RL Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-31-S-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-007

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00037

Date Collected: 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.5 Pf 1 = 3.5

D.F. = 1.49

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 *	**17.8**	0.15	
7727-37-9	Nitrogen	**77.8**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**4.38**	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: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-31-D-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-008

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00203

Date Collected: 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.6 Pf 1 = 3.5

D.F. = 1.64

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**11.7**	0.16	
7727-37-9	Nitrogen	**79.6**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**8.71**	0.16	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-34-D-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-009

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00592

Date Collected: 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.7 Pf 1 = 3.5

D.F. = 1.65

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.17	
7782-44-7 7440-37-1	Oxygen + Argon *	**4.87**	0.17	
7727-37-9	Nitrogen	**83.1**	0.17	
630-08-0	Carbon Monoxide	ND	0.17	
124-38-9	Carbon Dioxide	**12.0**	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.
* = Coeluting Compounds

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-34-I-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-010

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00041

Date Collected: 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.7 Pf 1 = 3.6
D.F. = 1.66

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.17	
7782-44-7 7440-37-1	Oxygen + Argon *	**22.1**	0.17	
7727-37-9	Nitrogen	**77.8**	0.17	
630-08-0	Carbon Monoxide	ND	0.17	
124-38-9	Carbon Dioxide	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.
* = Coeluting Compounds

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : TRC
Client Sample ID: WDI-VW-34-S-12-12-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-011

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00263

Date Collected: 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.4 Pf 1 = 3.5

D.F. = 1.61

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**14.1**	0.16	
7727-37-9	Nitrogen	**78.3**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**7.62**	0.16	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-34-I-12-12-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-012

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00286

Date Collected: 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -4.0 Pf 1 = 3.5

D.F. = 1.70

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.17	
7782-44-7 7440-37-1	Oxygen + Argon *	**22.2**	0.17	
7727-37-9	Nitrogen	**77.8**	0.17	
630-08-0	Carbon Monoxide	ND	0.17	
124-38-9	Carbon Dioxide	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.
* = Coeluting Compounds

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-50-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-001

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.7 Pf 1 = 3.6
D.F. = 1.66

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.7**	0.83	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**17**	1.7	

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: 12/28/06

03406SVG.RD1 -Sample

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-28-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-002

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.2 Pf 1 = 3.6
D.F. = 1.59

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.1**	0.80	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.6	

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

Verified By: Rc Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-24-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-003

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.7 Pf 1 = 3.5
Pi 2 = -1.7 Pf 2 = 2.4 D.F. = 2.00

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.6**	1.0	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	2.0	

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: 12/28/06

03406SVG.RD1 -Sample (3)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-IBM-24B-12-10-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-004

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.5 Pf 1 = 3.5
D.F. = 1.49

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	3.2	0.75	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	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: 12/28/06

03406SVG.RD1 -Sample (4)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03B-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-005

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.6 Pf 1 = 3.8
Pi 2 = -2.2 Pf 2 = 1.4 D.F. = 1.97

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.2**	0.99	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**5.5**	2.0	J

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.L. Date: 12/28/06

03406SVG.RD1 -Sample (5)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03B-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-005DUP

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.6 Pf 1 = 3.8
Pi 2 = -2.2 Pf 2 = 1.4 D.F. = 1.97

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.4**	0.99	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**4.9**	2.0	

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: RL Date: 12/28/06

03406SVG.RD1 -Dup (5)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-50-12-10-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-006

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

Date Collected: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
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	**1.9**	0.77	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**15**	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: RG Date: 12/28/06

03406SVG.RD1 -Sample (6)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-31-S-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-007

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00037

Date Collected: 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.5 Pf 1 = 3.5
D.F. = 1.49

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.75	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.1**	1.5	J

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: 12/28/06

03406SVG.RD1 -Sample (7)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-31-D-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-008

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00203

Date Collected: 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.6 Pf 1 = 3.5
D.F. = 1.64

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.2**	0.82	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**4.4**	1.6	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-34-D-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-009

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00592

Date Collected: 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.7 Pf 1 = 3.5
D.F. = 1.65

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**0.87**	0.83	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**5.4**	1.7	

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: 12/28/06

03406SVG.RD1 -Sample (9)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-34-I-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-010

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00041

Date Collected: 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.7 Pf 1 = 3.6
D.F. = 1.66

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.5**	0.83	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.7	

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: 12/28/06

03406SVG.RD1 -Sample (10)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

:lient: **TRC**
:lient Sample ID: **WDI-VW-34-S-12-12-06**
:lient Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-011

'est Code: EPA Method 25C Modified
nstrument ID: HP5890II/GC1/FID/TCA
\nalyst: Wade Henton
;ampling Media: Summa Canister
'est Notes:
:ontainer ID: SC00263

Date Collected: 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.4 Pf 1 = 3.5
D.F. = 1.61

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.0**	0.81	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**5.1**	1.6	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-34-I-12-12-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-012

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00286

Date Collected: 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/19/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -4.0 Pf 1 = 3.5
D.F. = 1.70

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	2.5	0.85	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.7	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-50-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-001

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: AC00589

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/19/06
Volume(s) Analyzed: 0.25 Liter(s)

Pi 1 = -3.7 Pf 1 = 3.6

Can D.F. = 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	6.6	ND	3.2	
75-01-4	Vinyl Chloride	ND	6.6	ND	2.6	
74-83-9	Bromomethane	ND	6.6	ND	1.7	
75-00-3	Chloroethane	ND	6.6	ND	2.5	
67-64-1	Acetone	ND	33	ND	14	
75-69-4	Trichlorofluoromethane	ND	6.6	ND	1.2	
75-35-4	1,1-Dichloroethene	ND	6.6	ND	1.7	
75-09-2	Methylene chloride	ND	6.6	ND	1.9	
76-13-1	Trichlorotrifluoroethane	ND	6.6	ND	0.87	
75-15-0	Carbon Disulfide	ND	6.6	ND	2.1	
156-60-5	trans-1,2-Dichloroethene	ND	6.6	ND	1.7	
75-34-3	1,1-Dichloroethane	ND	6.6	ND	1.6	
1634-04-4	Methyl tert-Butyl Ether	ND	6.6	ND	1.8	
108-05-4	Vinyl Acetate	ND	6.6	ND	1.9	
78-93-3	2-Butanone (MEK)	**7.8**	6.6	**2.6**	2.3	
156-59-2	cis-1,2-Dichloroethene	ND	6.6	ND	1.7	
67-66-3	Chloroform	ND	6.6	ND	1.4	
107-06-2	1,2-Dichloroethane	ND	6.6	ND	1.6	
71-55-6	1,1,1-Trichloroethane	ND	6.6	ND	1.2	
71-43-2	Benzene	ND	6.6	ND	2.1	
56-23-5	Carbon Tetrachloride	ND	6.6	ND	1.1	
78-87-5	1,2-Dichloropropane	ND	6.6	ND	1.4	

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

Verified By: RL Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: WDI-IBM-50-12-10-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-001

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: AC00589

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/19/06
Volume(s) Analyzed: 0.25 Liter(s)

Pi 1 = -3.7 Pf 1 = 3.6

Can D.F. = 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	6.6	ND	0.99	
79-01-6	Trichloroethene	ND	6.6	ND	1.2	
10061-01-5	cis-1,3-Dichloropropene	ND	6.6	ND	1.5	
108-10-1	4-Methyl-2-pentanone	ND	6.6	ND	1.6	
10061-02-6	trans-1,3-Dichloropropene	ND	6.6	ND	1.5	
79-00-5	1,1,2-Trichloroethane	ND	6.6	ND	1.2	
108-88-3	Toluene	**8.3**	6.6	**2.2**	1.8	
591-78-6	2-Hexanone	ND	6.6	ND	1.6	
124-48-1	Dibromochloromethane	ND	6.6	ND	0.78	
106-93-4	1,2-Dibromoethane	ND	6.6	ND	0.86	
127-18-4	Tetrachloroethene	ND	6.6	ND	0.98	
108-90-7	Chlorobenzene	ND	6.6	ND	1.4	
100-41-4	Ethylbenzene	ND	6.6	ND	1.5	
179601-23-1	*m,p*-Xylenes	**12**	6.6	**2.8**	1.5	
75-25-2	Bromoform	ND	6.6	ND	0.64	
100-42-5	Styrene	ND	6.6	ND	1.6	
95-47-6	o-Xylene	ND	6.6	ND	1.5	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.6	ND	0.97	
541-73-1	1,3-Dichlorobenzene	ND	6.6	ND	1.1	
106-46-7	1,4-Dichlorobenzene	ND	6.6	ND	1.1	
95-50-1	1,2-Dichlorobenzene	ND	6.6	ND	1.1	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-28-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-002

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: AC00926

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.2 Pf 1 = 3.6

Can D.F. = 1.59

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.77	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.62	
74-83-9	Bromomethane	ND	1.6	ND	0.41	
75-00-3	Chloroethane	ND	1.6	ND	0.60	
67-64-1	Acetone	**30**	8.0	**13**	3.3	
75-69-4	Trichlorofluoromethane	**2.0**	1.6	**0.35**	0.28	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.40	
75-09-2	Methylene chloride	**2.6**	1.6	**0.73**	0.46	
76-13-1	Trichlorotrifluoroethane	ND	1.6	ND	0.21	
75-15-0	Carbon Disulfide	ND	1.6	ND	0.51	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	ND	0.40	
75-34-3	1,1-Dichloroethane	ND	1.6	ND	0.39	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	ND	0.44	
108-05-4	Vinyl Acetate	ND	1.6	ND	0.45	
78-93-3	2-Butanone (MEK)	**3.7**	1.6	**1.3**	0.54	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	ND	0.40	
67-66-3	Chloroform	ND	1.6	ND	0.33	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.39	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.29	
71-43-2	Benzene	ND	1.6	ND	0.50	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.25	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.34	

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

Verified By: Ru Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-IBM-28-12-10-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-002

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: AC00926

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.2 Pf 1 = 3.6

Can D.F. = 1.59

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	ND	1.6	ND	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.35	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.39	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.35	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.29	
108-88-3	Toluene	**7.9**	1.6	**2.1**	0.42	
591-78-6	2-Hexanone	ND	1.6	ND	0.39	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	ND	1.6	ND	0.23	
108-90-7	Chlorobenzene	ND	1.6	ND	0.35	
100-41-4	Ethylbenzene	ND	1.6	ND	0.37	
179601-23-1	*m,p*-Xylenes	**5.5**	1.6	**1.3**	0.37	
75-25-2	Bromoform	ND	1.6	ND	0.15	
100-42-5	Styrene	ND	1.6	ND	0.37	
95-47-6	o-Xylene	**2.4**	1.6	**0.56**	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.23	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.26	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.26	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.26	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-24-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-003

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: AC00594

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/15/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.59	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**13**	7.6	**5.3**	3.2	
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.38	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.38	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	ND	1.5	ND	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.38	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	ND	1.5	ND	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-IBM-24-12-10-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-003

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: AC00594

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/15/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.23	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**3.0**	1.5	**0.79**	0.40	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	ND	1.5	ND	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	ND	1.5	ND	0.35	
179601-23-1	*m,p*-Xylenes	ND	1.5	ND	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	ND	1.5	ND	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-IBM-24-12-10-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-003DUP

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: AC00594

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/15/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.59	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**13**	7.6	**5.3**	3.2	
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.38	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.38	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	ND	1.5	ND	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.38	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	ND	1.5	ND	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-24-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-003DUP

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: AC00594

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/15/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.23	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**2.9**	1.5	**0.78**	0.40	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	ND	1.5	ND	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	ND	1.5	ND	0.35	
179601-23-1	*m,p*-Xylenes	ND	1.5	ND	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	ND	1.5	ND	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-24B-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-004

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: AC00756

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.5 Pf 1 = 3.5

Can D.F. = 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.72	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.58	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.56	
67-64-1	Acetone	**70**	7.5	**29**	3.1	
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.38	
75-09-2	Methylene chloride	**1.5**	1.5	**0.44**	0.43	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.48	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.38	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.37	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.42	
78-93-3	2-Butanone (MEK)	**3.0**	1.5	**1.0**	0.51	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.38	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.37	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**1.5**	1.5	**0.48**	0.47	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-24B-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-004

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: AC00756

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.5 Pf 1 = 3.5

Can D.F. = 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**8.6**	1.5	**2.3**	0.40	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	ND	1.5	ND	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	ND	1.5	ND	0.34	
179601-23-1	*m,p*-Xylenes	**3.9**	1.5	**0.90**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.35	
95-47-6	o-Xylene	ND	1.5	ND	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03B-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-005

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: AC00404

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.8

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.60	UJ
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**54**	7.7	**23**	3.2	
75-69-4	Trichlorofluoromethane	**1.5**	1.5	**0.27**	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.39	
75-09-2	Methylene chloride	**20**	1.5	**5.8**	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.39	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	**19**	1.5	**6.5**	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.39	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**12**	1.5	**3.8**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: RL Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03B-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-005

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: AC00404

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.8

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.23	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.34	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.34	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**10**	1.5	**2.7**	0.41	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	ND	1.5	ND	0.23	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**3.2**	1.5	**0.73**	0.35	
179601-23-1	*m,p*-Xylenes	**14**	1.5	**3.2**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	**4.6**	1.5	**1.1**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: RL Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03B-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-005DUP

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: AC00404

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.8

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.60	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**54**	7.7	**23**	3.2	
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.39	
75-09-2	Methylene chloride	**20**	1.5	**5.8**	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.39	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	**19**	1.5	**6.4**	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.39	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**12**	1.5	**3.9**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-IBM-03B-12-10-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-005DUP

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: AC00404

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.8

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.23	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.34	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.34	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**10**	1.5	**2.8**	0.41	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	ND	1.5	ND	0.23	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**3.3**	1.5	**0.75**	0.35	
179601-23-1	*m,p* -Xylenes	**14**	1.5	**3.2**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	**4.8**	1.5	**1.1**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-50-12-10-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-006

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: AC01273

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/19/06
Volume(s) Analyzed: 1.00 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	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.60	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**49**	7.7	**20**	3.2	**M**
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.39	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.39	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	**7.1**	1.5	**2.0**	0.43	
78-93-3	2-Butanone (MEK)	**9.8**	1.5	**3.3**	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.39	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**2.7**	1.5	**0.85**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-IBM-50-12-10-06-SC
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-006

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: AC01273

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/19/06
Volume(s) Analyzed: 1.00 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	1.5	ND	0.23	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.34	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.34	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**8.2**	1.5	**2.2**	0.41	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	ND	1.5	ND	0.23	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**3.0**	1.5	**0.70**	0.35	
179601-23-1	*m,p*-Xylenes	**13**	1.5	**3.0**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	**4.8**	1.5	**1.1**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: Ru Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-31-S-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-007

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: SC00037

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/19/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.5 Pf 1 = 3.5

Can D.F. = 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.72	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.58	UJ
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.56	
67-64-1	Acetone	**11**	7.5	**4.8**	3.1	
75-69-4	Trichlorofluoromethane	**1.8**	1.5	**0.33**	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.38	
75-09-2	Methylene chloride	ND	1.5	ND	0.43	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.48	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.38	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.37	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	**1.5**	1.5	**0.44**	0.42	**M**
78-93-3	2-Butanone (MEK)	ND	1.5	ND	0.51	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.38	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.37	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**13**	1.5	**4.1**	0.47	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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.

Verified By: RL Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-31-S-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-007

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: SC00037

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/19/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.5 Pf 1 = 3.5

Can D.F. = 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**6.1**	1.5	**1.6**	0.40	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	**27**	1.5	**3.9**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**2.2**	1.5	**0.51**	0.34	
179601-23-1	*m,p* -Xylenes	**8.2**	1.5	**1.9**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	**2.3**	1.5	**0.54**	0.35	
95-47-6	o-Xylene	**2.7**	1.5	**0.62**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-31-D-12-12-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-008

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: SC00203

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.6 Pf 1 = 3.5

Can D.F. = 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.79	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.64	
74-83-9	Bromomethane	ND	1.6	ND	0.42	
75-00-3	Chloroethane	ND	1.6	ND	0.62	
67-64-1	Acetone	**12**	8.2	**4.9**	3.5	
75-69-4	Trichlorofluoromethane	**2.5**	1.6	**0.44**	0.29	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.41	
75-09-2	Methylene chloride	ND	1.6	ND	0.47	
76-13-1	Trichlorotrifluoroethane	ND	1.6	ND	0.21	
75-15-0	Carbon Disulfide	ND	1.6	ND	0.53	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	ND	0.41	
75-34-3	1,1-Dichloroethane	ND	1.6	ND	0.41	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	ND	0.46	
108-05-4	Vinyl Acetate	ND	1.6	ND	0.47	
78-93-3	2-Butanone (MEK)	ND	1.6	ND	0.56	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	ND	0.41	
67-66-3	Chloroform	ND	1.6	ND	0.34	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.41	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.30	
71-43-2	Benzene	**13**	1.6	**4.1**	0.51	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.35	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-31-D-12-12-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-008

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: SC00203

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.6 Pf 1 = 3.5

Can D.F. = 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	**6.6**	1.6	**1.2**	0.31	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.36	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.40	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.36	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.30	
108-88-3	Toluene	**7.2**	1.6	**1.9**	0.44	
591-78-6	2-Hexanone	ND	1.6	ND	0.40	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	**51**	1.6	**7.5**	0.24	
108-90-7	Chlorobenzene	ND	1.6	ND	0.36	
100-41-4	Ethylbenzene	**2.4**	1.6	**0.54**	0.38	
179601-23-1	*m,p* -Xylenes	**9.4**	1.6	**2.2**	0.38	
75-25-2	Bromoform	ND	1.6	ND	0.16	
100-42-5	Styrene	ND	1.6	ND	0.39	
95-47-6	o-Xylene	**3.1**	1.6	**0.70**	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.24	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.27	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.27	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-34-D-12-12-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-009

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: SC00592

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.7 Pf 1 = 3.5

Can D.F. = 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.7	ND	0.80	
75-01-4	Vinyl Chloride	ND	1.7	ND	0.65	
74-83-9	Bromomethane	ND	1.7	ND	0.43	
75-00-3	Chloroethane	ND	1.7	ND	0.63	
67-64-1	Acetone	**10**	8.3	**4.2**	3.5	
75-69-4	Trichlorofluoromethane	ND	1.7	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	1.7	ND	0.42	
75-09-2	Methylene chloride	ND	1.7	ND	0.48	
76-13-1	Trichlorotrifluoroethane	**2.2**	1.7	**0.29**	0.22	
75-15-0	Carbon Disulfide	ND	1.7	ND	0.53	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	ND	0.42	
75-34-3	1,1-Dichloroethane	ND	1.7	ND	0.41	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	ND	0.46	
108-05-4	Vinyl Acetate	ND	1.7	ND	0.47	
78-93-3	2-Butanone (MEK)	ND	1.7	ND	0.56	
156-59-2	cis-1,2-Dichloroethene	ND	1.7	ND	0.42	
67-66-3	Chloroform	**6.3**	1.7	**1.3**	0.34	
107-06-2	1,2-Dichloroethane	ND	1.7	ND	0.41	
71-55-6	1,1,1-Trichloroethane	ND	1.7	ND	0.30	
71-43-2	Benzene	**17**	1.7	**5.4**	0.52	
56-23-5	Carbon Tetrachloride	ND	1.7	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	1.7	ND	0.36	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-34-D-12-12-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-009

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: SC00592

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.7 Pf 1 = 3.5

Can D.F. = 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.7	ND	0.25	
79-01-6	Trichloroethene	**27**	1.7	**5.0**	0.31	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	ND	0.36	
108-10-1	4-Methyl-2-pentanone	ND	1.7	ND	0.40	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	ND	0.36	
79-00-5	1,1,2-Trichloroethane	ND	1.7	ND	0.30	
108-88-3	Toluene	**4.5**	1.7	**1.2**	0.44	
591-78-6	2-Hexanone	ND	1.7	ND	0.40	
124-48-1	Dibromochloromethane	ND	1.7	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.7	ND	0.21	
127-18-4	Tetrachloroethene	**23**	1.7	**3.4**	0.24	
108-90-7	Chlorobenzene	ND	1.7	ND	0.36	
100-41-4	Ethylbenzene	ND	1.7	ND	0.38	
179601-23-1	*m,p*-Xylenes	**6.7**	1.7	**1.5**	0.38	
75-25-2	Bromoform	ND	1.7	ND	0.16	
100-42-5	Styrene	ND	1.7	ND	0.39	
95-47-6	o-Xylene	**2.3**	1.7	**0.53**	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	ND	0.24	
541-73-1	1,3-Dichlorobenzene	ND	1.7	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	1.7	ND	0.27	
95-50-1	1,2-Dichlorobenzene	ND	1.7	ND	0.27	

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.G. Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-34-I-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-010

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: SC00041

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.7 Pf 1 = 3.6

Can D.F. = 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.7	ND	0.80	
75-01-4	Vinyl Chloride	ND	1.7	ND	0.65	
74-83-9	Bromomethane	ND	1.7	ND	0.43	
75-00-3	Chloroethane	ND	1.7	ND	0.63	
67-64-1	Acetone	**31**	8.3	**13**	3.5	
75-69-4	Trichlorofluoromethane	ND	1.7	ND	0.30	
75-35-4	1,1-Dichloroethene	ND	1.7	ND	0.42	
75-09-2	Methylene chloride	ND	1.7	ND	0.48	
76-13-1	Trichlorotrifluoroethane	ND	1.7	ND	0.22	
75-15-0	Carbon Disulfide	ND	1.7	ND	0.53	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	ND	0.42	
75-34-3	1,1-Dichloroethane	ND	1.7	ND	0.41	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	ND	0.46	
108-05-4	Vinyl Acetate	ND	1.7	ND	0.47	
78-93-3	2-Butanone (MEK)	**3.5**	1.7	**1.2**	0.56	
156-59-2	cis-1,2-Dichloroethene	ND	1.7	ND	0.42	
67-66-3	Chloroform	ND	1.7	ND	0.34	
107-06-2	1,2-Dichloroethane	ND	1.7	ND	0.41	
71-55-6	1,1,1-Trichloroethane	ND	1.7	ND	0.30	
71-43-2	Benzene	**9.8**	1.7	**3.1**	0.52	
56-23-5	Carbon Tetrachloride	ND	1.7	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	1.7	ND	0.36	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-34-I-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-010

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: SC00041

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.7 Pf 1 = 3.6

Can D.F. = 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.7	ND	0.25	
79-01-6	Trichloroethene	ND	1.7	ND	0.31	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	ND	0.37	
108-10-1	4-Methyl-2-pentanone	ND	1.7	ND	0.41	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	ND	0.37	
79-00-5	1,1,2-Trichloroethane	ND	1.7	ND	0.30	
108-88-3	Toluene	**11**	1.7	**2.9**	0.44	
591-78-6	2-Hexanone	ND	1.7	ND	0.41	
124-48-1	Dibromochloromethane	ND	1.7	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.7	ND	0.22	
127-18-4	Tetrachloroethene	ND	1.7	ND	0.24	
108-90-7	Chlorobenzene	ND	1.7	ND	0.36	
100-41-4	Ethylbenzene	ND	1.7	ND	0.38	
179601-23-1	*m,p*-Xylenes	**6.7**	1.7	**1.5**	0.38	
75-25-2	Bromoform	ND	1.7	ND	0.16	
100-42-5	Styrene	ND	1.7	ND	0.39	
95-47-6	o-Xylene	**2.3**	1.7	**0.52**	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	ND	0.24	
541-73-1	1,3-Dichlorobenzene	ND	1.7	ND	0.28	
106-46-7	1,4-Dichlorobenzene	ND	1.7	ND	0.28	
95-50-1	1,2-Dichlorobenzene	ND	1.7	ND	0.28	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-34-I-12-12-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-010DUP

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: SC00041

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.7 Pf 1 = 3.6

Can D.F. = 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.7	ND	0.80	
75-01-4	Vinyl Chloride	ND	1.7	ND	0.65	
74-83-9	Bromomethane	ND	1.7	ND	0.43	
75-00-3	Chloroethane	ND	1.7	ND	0.63	
67-64-1	Acetone	**32**	8.3	**13**	3.5	
75-69-4	Trichlorofluoromethane	ND	1.7	ND	0.30	
75-35-4	1,1-Dichloroethene	ND	1.7	ND	0.42	
75-09-2	Methylene chloride	ND	1.7	ND	0.48	
76-13-1	Trichlorotrifluoroethane	ND	1.7	ND	0.22	
75-15-0	Carbon Disulfide	ND	1.7	ND	0.53	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	ND	0.42	
75-34-3	1,1-Dichloroethane	ND	1.7	ND	0.41	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	ND	0.46	
108-05-4	Vinyl Acetate	ND	1.7	ND	0.47	
78-93-3	2-Butanone (MEK)	**3.6**	1.7	**1.2**	0.56	
156-59-2	cis-1,2-Dichloroethene	ND	1.7	ND	0.42	
67-66-3	Chloroform	ND	1.7	ND	0.34	
107-06-2	1,2-Dichloroethane	ND	1.7	ND	0.41	
71-55-6	1,1,1-Trichloroethane	ND	1.7	ND	0.30	
71-43-2	Benzene	**10**	1.7	**3.1**	0.52	
56-23-5	Carbon Tetrachloride	ND	1.7	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	1.7	ND	0.36	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-34-I-12-12-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-010DUP

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: SC00041

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi l = -3.7 Pf l = 3.6

Can D.F. = 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.7	ND	0.25	
79-01-6	Trichloroethene	ND	1.7	ND	0.31	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	ND	0.37	
108-10-1	4-Methyl-2-pentanone	ND	1.7	ND	0.41	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	ND	0.37	
79-00-5	1,1,2-Trichloroethane	ND	1.7	ND	0.30	
108-88-3	Toluene	**11**	1.7	**3.0**	0.44	
591-78-6	2-Hexanone	ND	1.7	ND	0.41	
124-48-1	Dibromochloromethane	ND	1.7	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.7	ND	0.22	
127-18-4	Tetrachloroethene	ND	1.7	ND	0.24	
108-90-7	Chlorobenzene	ND	1.7	ND	0.36	
100-41-4	Ethylbenzene	ND	1.7	ND	0.38	
179601-23-1	*m,p*-Xylenes	**6.8**	1.7	**1.6**	0.38	
75-25-2	Bromoform	ND	1.7	ND	0.16	
100-42-5	Styrene	ND	1.7	ND	0.39	
95-47-6	o-Xylene	**2.3**	1.7	**0.53**	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	ND	0.24	
541-73-1	1,3-Dichlorobenzene	ND	1.7	ND	0.28	
106-46-7	1,4-Dichlorobenzene	ND	1.7	ND	0.28	
95-50-1	1,2-Dichlorobenzene	ND	1.7	ND	0.28	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-34-S-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-011

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: SC00263

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/19/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.4 Pf 1 = 3.5

Can D.F. = 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.78	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.63	
74-83-9	Bromomethane	ND	1.6	ND	0.41	
75-00-3	Chloroethane	ND	1.6	ND	0.61	
67-64-1	Acetone	**10**	8.1	**4.2**	3.4	**M**
75-69-4	Trichlorofluoromethane	ND	1.6	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.41	
75-09-2	Methylene chloride	ND	1.6	ND	0.46	
76-13-1	Trichlorotrifluoroethane	ND	1.6	ND	0.21	
75-15-0	Carbon Disulfide	**7.0**	1.6	**2.3**	0.52	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	ND	0.41	
75-34-3	1,1-Dichloroethane	ND	1.6	ND	0.40	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	ND	0.45	
108-05-4	Vinyl Acetate	ND	1.6	ND	0.46	
78-93-3	2-Butanone (MEK)	ND	1.6	ND	0.55	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	ND	0.41	
67-66-3	Chloroform	ND	1.6	ND	0.33	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.40	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.30	
71-43-2	Benzene	**23**	1.6	**7.1**	0.50	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.35	

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.

Verified By: RLG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-34-S-12-12-06
Client Project ID: WDI

CAS Project ID: P2603406
CAS Sample ID: P2603406-011

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: SC00263

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/19/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.4 Pf 1 = 3.5

Can D.F. = 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	ND	1.6	ND	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.35	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.39	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.35	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.30	
108-88-3	Toluene	**4.8**	1.6	**1.3**	0.43	
591-78-6	2-Hexanone	ND	1.6	ND	0.39	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	**9.6**	1.6	**1.4**	0.24	
108-90-7	Chlorobenzene	ND	1.6	ND	0.35	
100-41-4	Ethylbenzene	**1.9**	1.6	**0.44**	0.37	
179601-23-1	*m,p*-Xylenes	**7.4**	1.6	**1.7**	0.37	
75-25-2	Bromoform	ND	1.6	ND	0.16	
100-42-5	Styrene	ND	1.6	ND	0.38	
95-47-6	o-Xylene	**2.5**	1.6	**0.57**	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.23	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.27	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.27	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-34-I-12-12-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-012

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: SC00286

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/19/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.0 Pf 1 = 3.5

Can D.F. = 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.7	ND	0.82	
75-01-4	Vinyl Chloride	ND	1.7	ND	0.67	
74-83-9	Bromomethane	ND	1.7	ND	0.44	
75-00-3	Chloroethane	ND	1.7	ND	0.64	
67-64-1	Acetone	**29**	8.5	**12**	3.6	
75-69-4	Trichlorofluoromethane	ND	1.7	ND	0.30	
75-35-4	1,1-Dichloroethene	ND	1.7	ND	0.43	
75-09-2	Methylene chloride	ND	1.7	ND	0.49	
76-13-1	Trichlorotrifluoroethane	ND	1.7	ND	0.22	
75-15-0	Carbon Disulfide	ND	1.7	ND	0.55	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	ND	0.43	
75-34-3	1,1-Dichloroethane	ND	1.7	ND	0.42	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	ND	0.47	
108-05-4	Vinyl Acetate	ND	1.7	ND	0.48	
78-93-3	2-Butanone (MEK)	**2.4**	1.7	**0.81**	0.58	
156-59-2	cis-1,2-Dichloroethene	ND	1.7	ND	0.43	
67-66-3	Chloroform	ND	1.7	ND	0.35	
107-06-2	1,2-Dichloroethane	ND	1.7	ND	0.42	
71-55-6	1,1,1-Trichloroethane	ND	1.7	ND	0.31	
71-43-2	Benzene	**6.8**	1.7	**2.1**	0.53	
56-23-5	Carbon Tetrachloride	ND	1.7	ND	0.27	
78-87-5	1,2-Dichloropropane	ND	1.7	ND	0.37	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-34-I-12-12-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-012

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: SC00286

Date Collected: 12/12/06
Date Received: 12/12/06
Date(s) Analyzed: 12/19/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.0 Pf 1 = 3.5

Can D.F. = 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.7	ND	0.25	
79-01-6	Trichloroethene	ND	1.7	ND	0.32	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	ND	0.37	
108-10-1	4-Methyl-2-pentanone	ND	1.7	ND	0.41	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	ND	0.37	
79-00-5	1,1,2-Trichloroethane	ND	1.7	ND	0.31	
108-88-3	Toluene	**10**	1.7	**2.7**	0.45	
591-78-6	2-Hexanone	ND	1.7	ND	0.42	
124-48-1	Dibromochloromethane	ND	1.7	ND	0.20	
106-93-4	1,2-Dibromoethane	ND	1.7	ND	0.22	
127-18-4	Tetrachloroethene	ND	1.7	ND	0.25	
108-90-7	Chlorobenzene	ND	1.7	ND	0.37	
100-41-4	Ethylbenzene	ND	1.7	ND	0.39	
179601-23-1	*m,p* -Xylenes	**6.4**	1.7	**1.5**	0.39	
75-25-2	Bromoform	ND	1.7	ND	0.16	
100-42-5	Styrene	ND	1.7	ND	0.40	
95-47-6	o-Xylene	**2.2**	1.7	**0.52**	0.39	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	ND	0.25	
541-73-1	1,3-Dichlorobenzene	ND	1.7	ND	0.28	
106-46-7	1,4-Dichlorobenzene	ND	1.7	ND	0.28	
95-50-1	1,2-Dichlorobenzene	ND	1.7	ND	0.28	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-50-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-001

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: AC00589

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 0.25 Liter(s)

Pi 1 = -3.7 Pf 1 = 3.6

Can D.F. = 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.17	ND	0.065	
106-93-4	1,2-Dibromoethane	ND	0.17	ND	0.022	

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: Ke Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-28-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-002

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: AC00926

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.2 Pf 1 = 3.6

Can D.F. = 1.59

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	**0.077**	0.040	**0.030**	0.016	
106-93-4	1,2-Dibromoethane	ND	0.040	ND	0.0052	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-28-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-002DUP

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: AC00926

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.2 Pf 1 = 3.6

Can D.F. = 1.59

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	**0.079**	0.040	**0.031**	0.016	
106-93-4	1,2-Dibromoethane	ND	0.040	ND	0.0052	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-24B-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-004

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: AC00756

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 0.50 Liter(s)

Pi 1 = -2.5 Pf 1 = 3.5

Can D.F. = 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.075	ND	0.029	
106-93-4	1,2-Dibromoethane	ND	0.075	ND	0.0097	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03B-12-10-06**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-005

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: AC00404

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 0.25 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.8

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	0.15	ND	0.060	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	

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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-50-12-10-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603406
CAS Sample ID: P2603406-006

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: AC01273

Date Collected: 12/10/06
Date Received: 12/12/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 0.25 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	0.15	ND	0.060	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	

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: 12/28/06

4. SDG P2603461

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-35-S-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-001

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00858

Date Collected: 12/12/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.3 Pf 1 = 3.6

D.F. = 1.61

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**13.9**	0.16	
7727-37-9	Nitrogen	**79.8**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**6.34**	0.16	

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

Verified By: WJ Date: 1/3/07

03461SVG.RD1 - Sample

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-35-D-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-002

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00833

Date Collected: 12/12/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.5 Pf 1 = 3.6

D.F. = 1.50

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 *	**5.90**	0.15	
7727-37-9	Nitrogen	**81.3**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**12.7**	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: W Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-35-D-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-002DUP

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00833

Date Collected: 12/12/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.5 Pf 1 = 3.6
D.F. = 1.50

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 *	**5.91**	0.15	
7727-37-9	Nitrogen	**81.4**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**12.7**	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: W Date: 1/3/07

03461SVG.RD1 - Dup (2)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-58-I-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-003

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00911

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.6 Pf 1 = 3.6

D.F. = 1.51

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.15	
7782-44-7 7440-37-1	Oxygen + Argon *	**5.82**	0.15	
7727-37-9	Nitrogen	**80.7**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**13.5**	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: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-58-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-004

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00347

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.3 Pf 1 = 3.6

D.F. = 1.48

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 *	**13.2**	0.15	
7727-37-9	Nitrogen	**81.5**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**5.30**	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: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-58-S-12-14-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-005

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00520

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.1 Pf 1 = 3.7

D.F. = 1.59

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**13.1**	0.16	
7727-37-9	Nitrogen	**81.5**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**5.34**	0.16	

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

Verified By: WJ Date: 1/3/07

03461SVG.RD1 - Sample (5)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-58-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-006

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00025

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.8 Pf 1 = 3.6

D.F. = 1.54

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 *	**21.0**	0.15	
7727-37-9	Nitrogen	**77.9**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**1.07**	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: KJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-39-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-007

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00127

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.3 Pf 1 = 3.8

D.F. = 1.62

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**4.10**	0.16	
7727-37-9	Nitrogen	**86.5**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**9.41**	0.16	

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

Verified By: MJ Date: 1/3/07

03461SVG.RD1 - Sample (7)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-39-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-008

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00113

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -3.5 Pf 1 = 3.5

D.F. = 1.63

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**10.7**	0.16	
7727-37-9	Nitrogen	**83.1**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**6.27**	0.16	

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

Verified By: WJ Date: 1/2/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-38-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-009

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00624

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.5 Pf 1 = 3.7

D.F. = 1.51

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.15	
7782-44-7 7440-37-1	Oxygen + Argon *	**12.5**	0.15	
7727-37-9	Nitrogen	**79.7**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**7.77**	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: MV Date: 1/3/07

03461SVG.RD1 - Sample (9)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-38-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-010

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00909

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.8 Pf 1 = 4.4

D.F. = 1.61

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**1.19**	0.16	
7727-37-9	Nitrogen	**87.8**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**10.9**	0.16	

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

Verified By: W Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-35-S-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-001

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00858

Date Collected: 12/12/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.3 Pf 1 = 3.6
D.F. = 1.61

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.81	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.1**	1.6	

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

Verified By: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-35-D-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-002

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00833

Date Collected: 12/12/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.5 Pf 1 = 3.6
D.F. = 1.50

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.3**	0.75	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**4.6**	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: JW Date: 1/3/07

03461SVG.RD2 -Sample (2)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-I-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-003

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00911

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.50 ml

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

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.76	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**5.4**	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: MJ Date: 1/3/07

03461SVG.RD2 -Sample (3)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-004

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00347

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.3 Pf 1 = 3.6
D.F. = 1.48

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.1**	0.74	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.6**	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: MJ Date: 1/3/07

03461SVG.RD2 -Sample (4)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-S-12-14-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-005

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00520

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.1 Pf 1 = 3.7
D.F. = 1.59

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**0.89**	0.80	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.6**	1.6	

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

Verified By: μ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-006

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00025

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.8 Pf 1 = 3.6
D.F. = 1.54

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.5**	0.77	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	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: MJ Date: 1/3/07

03461SVG.RD2 -Sample (6)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-39-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-007

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00127

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.3 Pf 1 = 3.8
D.F. = 1.62

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.81	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**4.0**	1.6	

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

Verified By: MJ Date: 1/3/07

03461SVG.RD2 -Sample (7)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-39-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-008

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00113

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.5 Pf 1 = 3.5
D.F. = 1.63

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.82	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**4.1**	1.6	

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

Verified By: MU Date: 1/3/07

03461SVG.RD2 -Sample (8)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-38-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-009

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00624

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.5 Pf 1 = 3.7
D.F. = 1.51

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.76	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.7**	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: W Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-38-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-010

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00909

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.8 Pf 1 = 4.4
D.F. = 1.61

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1,700**	0.81	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**4.9**	1.6	

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

Verified By: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-38-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-010DUP

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00909

Date Collected: 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/28/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.8 Pf 1 = 4.4
D.F. = 1.61

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1,600**	0.81	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**5.0**	1.6	

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

Verified By: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-35-S-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-001

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: SC00858

Date Collected: 12/12/06
Date Received: 12/15/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.3 Pf 1 = 3.6

Can D.F. = 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.78	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.63	
74-83-9	Bromomethane	ND	1.6	ND	0.41	
75-00-3	Chloroethane	ND	1.6	ND	0.61	
67-64-1	Acetone	**9.8**	8.1	**4.1**	3.4	
75-69-4	Trichlorofluoromethane	**1.8**	1.6	**0.31**	0.29	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.41	
75-09-2	Methylene chloride	ND	1.6	ND	0.46	
76-13-1	Trichlorotrifluoroethane	ND	1.6	ND	0.21	
75-15-0	Carbon Disulfide	ND	1.6	ND	0.52	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	ND	0.41	
75-34-3	1,1-Dichloroethane	ND	1.6	ND	0.40	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	ND	0.45	
108-05-4	Vinyl Acetate	ND	1.6	ND	0.46	
78-93-3	2-Butanone (MEK)	ND	1.6	ND	0.55	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	ND	0.41	
67-66-3	Chloroform	ND	1.6	ND	0.33	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.40	
71-55-6	1,1,1-Trichloroethane	**8.3**	1.6	**1.5**	0.30	
71-43-2	Benzene	**13**	1.6	**4.1**	0.50	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.35	

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: LW Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-35-S-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-001

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: SC00858

Date Collected: 12/12/06
Date Received: 12/15/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.3 Pf 1 = 3.6

Can D.F. = 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	**49**	1.6	**9.2**	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.35	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.39	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.35	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.30	
108-88-3	Toluene	**5.4**	1.6	**1.4**	0.43	
591-78-6	2-Hexanone	ND	1.6	ND	0.39	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	**34**	1.6	**5.0**	0.24	
108-90-7	Chlorobenzene	ND	1.6	ND	0.35	
100-41-4	Ethylbenzene	**1.7**	1.6	**0.39**	0.37	
179601-23-1	*m,p*-Xylenes	**8.3**	1.6	**1.9**	0.37	
75-25-2	Bromoform	ND	1.6	ND	0.16	
100-42-5	Styrene	ND	1.6	ND	0.38	
95-47-6	o-Xylene	**3.0**	1.6	**0.68**	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.23	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.27	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.27	

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: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-35-D-12-12-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-002

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: SC00833

Date Collected: 12/12/06
Date Received: 12/15/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 0.025 Liter(s)

Pi 1 = -2.5 Pf 1 = 3.6

Can D.F. = 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	60	ND	9.0	
79-01-6	Trichloroethene	**3,600**	60	**680**	11	
10061-01-5	cis-1,3-Dichloropropene	ND	60	ND	13	
108-10-1	4-Methyl-2-pentanone	ND	60	ND	15	
10061-02-6	trans-1,3-Dichloropropene	ND	60	ND	13	
79-00-5	1,1,2-Trichloroethane	ND	60	ND	11	
108-88-3	Toluene	ND	60	ND	16	
591-78-6	2-Hexanone	ND	60	ND	15	
124-48-1	Dibromochloromethane	ND	60	ND	7.0	
106-93-4	1,2-Dibromoethane	ND	60	ND	7.8	
127-18-4	Tetrachloroethene	ND	60	ND	8.9	
108-90-7	Chlorobenzene	ND	60	ND	13	
100-41-4	Ethylbenzene	ND	60	ND	14	
179601-23-1	*m,p*-Xylenes	ND	60	ND	14	
75-25-2	Bromoform	ND	60	ND	5.8	
100-42-5	Styrene	ND	60	ND	14	
95-47-6	o-Xylene	ND	60	ND	14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	60	ND	8.7	
541-73-1	1,3-Dichlorobenzene	ND	60	ND	10	
106-46-7	1,4-Dichlorobenzene	ND	60	ND	10	
95-50-1	1,2-Dichlorobenzene	ND	60	ND	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.

Verified By: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-I-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-003

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: SC00911

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 0.060 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.6

Can D.F. = 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	25	ND	12	
75-01-4	Vinyl Chloride	ND	25	ND	9.8	
74-83-9	Bromomethane	ND	25	ND	6.5	
75-00-3	Chloroethane	ND	25	ND	9.5	
67-64-1	Acetone	ND	130	ND	53	
75-69-4	Trichlorofluoromethane	ND	25	ND	4.5	
75-35-4	1,1-Dichloroethene	ND	25	ND	6.4	
75-09-2	Methylene chloride	ND	25	ND	7.2	
76-13-1	Trichlorotrifluoroethane	ND	25	ND	3.3	
75-15-0	Carbon Disulfide	ND	25	ND	8.1	
156-60-5	trans-1,2-Dichloroethene	ND	25	ND	6.4	
75-34-3	1,1-Dichloroethane	ND	25	ND	6.2	
1634-04-4	Methyl tert-Butyl Ether	ND	25	ND	7.0	
108-05-4	Vinyl Acetate	ND	25	ND	7.2	
78-93-3	2-Butanone (MEK)	ND	25	ND	8.5	
156-59-2	cis-1,2-Dichloroethene	ND	25	ND	6.4	
67-66-3	Chloroform	ND	25	ND	5.2	
107-06-2	1,2-Dichloroethane	ND	25	ND	6.2	
71-55-6	1,1,1-Trichloroethane	**76**	25	**14**	4.6	
71-43-2	Benzene	ND	25	ND	7.9	
56-23-5	Carbon Tetrachloride	ND	25	ND	4.0	
78-87-5	1,2-Dichloropropane	ND	25	ND	5.4	

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

Verified By: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-I-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-003

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: SC00911

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/20/06
Volume(s) Analyzed: 0.060 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.6

Can D.F. = 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	25	ND	3.8	
79-01-6	Trichloroethene	**1,500**	25	**280**	4.7	
10061-01-5	cis-1,3-Dichloropropene	ND	25	ND	5.5	
108-10-1	4-Methyl-2-pentanone	ND	25	ND	6.1	
10061-02-6	trans-1,3-Dichloropropene	ND	25	ND	5.5	
79-00-5	1,1,2-Trichloroethane	ND	25	ND	4.6	
108-88-3	Toluene	ND	25	ND	6.7	
591-78-6	2-Hexanone	ND	25	ND	6.1	
124-48-1	Dibromochloromethane	ND	25	ND	3.0	
106-93-4	1,2-Dibromoethane	ND	25	ND	3.3	
127-18-4	Tetrachloroethene	**280**	25	**42**	3.7	
108-90-7	Chlorobenzene	ND	25	ND	5.5	
100-41-4	Ethylbenzene	ND	25	ND	5.8	
179601-23-1	*m,p*-Xylenes	ND	25	ND	5.8	
75-25-2	Bromoform	ND	25	ND	2.4	
100-42-5	Styrene	ND	25	ND	5.9	
95-47-6	o-Xylene	ND	25	ND	5.8	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	ND	3.7	
541-73-1	1,3-Dichlorobenzene	ND	25	ND	4.2	
106-46-7	1,4-Dichlorobenzene	ND	25	ND	4.2	
95-50-1	1,2-Dichlorobenzene	ND	25	ND	4.2	

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: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-004

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: SC00347

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.6

Can D.F. = 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	15	ND	7.2	
75-01-4	Vinyl Chloride	ND	15	ND	5.8	
74-83-9	Bromomethane	ND	15	ND	3.8	
75-00-3	Chloroethane	ND	15	ND	5.6	
67-64-1	Acetone	ND	74	ND	31	
75-69-4	Trichlorofluoromethane	**42**	15	**7.4**	2.6	
75-35-4	1,1-Dichloroethene	ND	15	ND	3.7	
75-09-2	Methylene chloride	ND	15	ND	4.3	
76-13-1	Trichlorotrifluoroethane	ND	15	ND	1.9	
75-15-0	Carbon Disulfide	ND	15	ND	4.8	
156-60-5	trans-1,2-Dichloroethene	ND	15	ND	3.7	
75-34-3	1,1-Dichloroethane	ND	15	ND	3.7	
1634-04-4	Methyl tert-Butyl Ether	ND	15	ND	4.1	
108-05-4	Vinyl Acetate	ND	15	ND	4.2	
78-93-3	2-Butanone (MEK)	ND	15	ND	5.0	
156-59-2	cis-1,2-Dichloroethene	ND	15	ND	3.7	
67-66-3	Chloroform	ND	15	ND	3.0	
107-06-2	1,2-Dichloroethane	ND	15	ND	3.7	
71-55-6	1,1,1-Trichloroethane	**48**	15	**8.7**	2.7	
71-43-2	Benzene	**40**	15	**13**	4.6	
56-23-5	Carbon Tetrachloride	ND	15	ND	2.4	
78-87-5	1,2-Dichloropropane	ND	15	ND	3.2	

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: µJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-004

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: SC00347

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.6

Can D.F. = 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	15	ND	2.2	
79-01-6	Trichloroethene	**1,200**	15	**230**	2.8	
10061-01-5	cis-1,3-Dichloropropene	ND	15	ND	3.3	
108-10-1	4-Methyl-2-pentanone	ND	15	ND	3.6	
10061-02-6	trans-1,3-Dichloropropene	ND	15	ND	3.3	
79-00-5	1,1,2-Trichloroethane	ND	15	ND	2.7	
108-88-3	Toluene	ND	15	ND	3.9	
591-78-6	2-Hexanone	ND	15	ND	3.6	
124-48-1	Dibromochloromethane	ND	15	ND	1.7	
106-93-4	1,2-Dibromoethane	ND	15	ND	1.9	
127-18-4	Tetrachloroethene	**48**	15	**7.1**	2.2	
108-90-7	Chlorobenzene	ND	15	ND	3.2	
100-41-4	Ethylbenzene	ND	15	ND	3.4	
179601-23-1	*m,p* -Xylenes	ND	15	ND	3.4	
75-25-2	Bromoform	ND	15	ND	1.4	
100-42-5	Styrene	ND	15	ND	3.5	
95-47-6	o-Xylene	ND	15	ND	3.4	
79-34-5	1,1,2,2-Tetrachloroethane	ND	15	ND	2.2	
541-73-1	1,3-Dichlorobenzene	ND	15	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	15	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	15	ND	2.5	

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: W Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-004DUP

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: SC00347

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.6

Can D.F. = 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	15	ND	7.2	
75-01-4	Vinyl Chloride	ND	15	ND	5.8	
74-83-9	Bromomethane	ND	15	ND	3.8	
75-00-3	Chloroethane	ND	15	ND	5.6	
67-64-1	Acetone	ND	74	ND	31	
75-69-4	Trichlorofluoromethane	**42**	15	**7.5**	2.6	
75-35-4	1,1-Dichloroethene	ND	15	ND	3.7	
75-09-2	Methylene chloride	ND	15	ND	4.3	
76-13-1	Trichlorotrifluoroethane	ND	15	ND	1.9	
75-15-0	Carbon Disulfide	ND	15	ND	4.8	
156-60-5	trans-1,2-Dichloroethene	ND	15	ND	3.7	
75-34-3	1,1-Dichloroethane	ND	15	ND	3.7	
1634-04-4	Methyl tert-Butyl Ether	ND	15	ND	4.1	
108-05-4	Vinyl Acetate	ND	15	ND	4.2	
78-93-3	2-Butanone (MEK)	ND	15	ND	5.0	
156-59-2	cis-1,2-Dichloroethene	ND	15	ND	3.7	
67-66-3	Chloroform	ND	15	ND	3.0	
107-06-2	1,2-Dichloroethane	ND	15	ND	3.7	
71-55-6	1,1,1-Trichloroethane	**49**	15	**9.0**	2.7	
71-43-2	Benzene	**40**	15	**13**	4.6	
56-23-5	Carbon Tetrachloride	ND	15	ND	2.4	
78-87-5	1,2-Dichloropropane	ND	15	ND	3.2	

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: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-004DUP

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: SC00347

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.6

Can D.F. = 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	15	ND	2.2	
79-01-6	Trichloroethene	**1,200**	15	**230**	2.8	
10061-01-5	cis-1,3-Dichloropropene	ND	15	ND	3.3	
108-10-1	4-Methyl-2-pentanone	ND	15	ND	3.6	
10061-02-6	trans-1,3-Dichloropropene	ND	15	ND	3.3	
79-00-5	1,1,2-Trichloroethane	ND	15	ND	2.7	
108-88-3	Toluene	ND	15	ND	3.9	
591-78-6	2-Hexanone	ND	15	ND	3.6	
124-48-1	Dibromochloromethane	ND	15	ND	1.7	
106-93-4	1,2-Dibromoethane	ND	15	ND	1.9	
127-18-4	Tetrachloroethene	**46**	15	**6.7**	2.2	
108-90-7	Chlorobenzene	ND	15	ND	3.2	
100-41-4	Ethylbenzene	ND	15	ND	3.4	
179601-23-1	*m,p*-Xylenes	ND	15	ND	3.4	
75-25-2	Bromoform	ND	15	ND	1.4	
100-42-5	Styrene	ND	15	ND	3.5	
95-47-6	o-Xylene	ND	15	ND	3.4	
79-34-5	1,1,2,2-Tetrachloroethane	ND	15	ND	2.2	
541-73-1	1,3-Dichlorobenzene	ND	15	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	15	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	15	ND	2.5	

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: ___ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-S-12-14-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-005

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: SC00520

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 0.125 Liter(s)
0.050 Liter(s)

Pi 1 = -3.1 Pf 1 = 3.7

Can D.F. = 1.59

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	13	ND	6.2	
75-01-4	Vinyl Chloride	ND	13	ND	5.0	
74-83-9	Bromomethane	ND	13	ND	3.3	
75-00-3	Chloroethane	ND	13	ND	4.8	
67-64-1	Acetone	ND	64	ND	27	
75-69-4	Trichlorofluoromethane	**47**	13	**8.3**	2.3	
75-35-4	1,1-Dichloroethene	ND	13	ND	3.2	
75-09-2	Methylene chloride	ND	13	ND	3.7	
76-13-1	Trichlorotrifluoroethane	ND	13	ND	1.7	
75-15-0	Carbon Disulfide	ND	13	ND	4.1	
156-60-5	trans-1,2-Dichloroethene	ND	13	ND	3.2	
75-34-3	1,1-Dichloroethane	ND	13	ND	3.1	
1634-04-4	Methyl tert-Butyl Ether	ND	13	ND	3.5	
108-05-4	Vinyl Acetate	ND	13	ND	3.6	
78-93-3	2-Butanone (MEK)	ND	13	ND	4.3	
156-59-2	cis-1,2-Dichloroethene	ND	13	ND	3.2	
67-66-3	Chloroform	ND	13	ND	2.6	
107-06-2	1,2-Dichloroethane	ND	13	ND	3.1	
71-55-6	1,1,1-Trichloroethane	**53**	13	**9.7**	2.3	
71-43-2	Benzene	**32**	13	**10**	4.0	
56-23-5	Carbon Tetrachloride	ND	13	ND	2.0	
78-87-5	1,2-Dichloropropane	ND	13	ND	2.8	

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: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-S-12-14-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-005

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: SC00520

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 0.125 Liter(s)
0.050 Liter(s)

Pi 1 = -3.1 Pf 1 = 3.7

Can D.F. = 1.59

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	13	ND	1.9	
79-01-6	Trichloroethene	**1,400**	13	**260**	2.4	
10061-01-5	cis-1,3-Dichloropropene	ND	13	ND	2.8	
108-10-1	4-Methyl-2-pentanone	ND	13	ND	3.1	
10061-02-6	trans-1,3-Dichloropropene	ND	13	ND	2.8	
79-00-5	1,1,2-Trichloroethane	ND	13	ND	2.3	
108-88-3	Toluene	ND	13	ND	3.4	
591-78-6	2-Hexanone	ND	13	ND	3.1	
124-48-1	Dibromochloromethane	ND	13	ND	1.5	
106-93-4	1,2-Dibromoethane	ND	13	ND	1.7	
127-18-4	Tetrachloroethene	**52**	13	**7.6**	1.9	
108-90-7	Chlorobenzene	ND	13	ND	2.8	
100-41-4	Ethylbenzene	ND	13	ND	2.9	
179601-23-1	*m,p*-Xylenes	ND	13	ND	2.9	
75-25-2	Bromoform	ND	13	ND	1.2	
100-42-5	Styrene	ND	13	ND	3.0	
95-47-6	o-Xylene	ND	13	ND	2.9	
79-34-5	1,1,2,2-Tetrachloroethane	ND	13	ND	1.9	
541-73-1	1,3-Dichlorobenzene	ND	13	ND	2.1	
106-46-7	1,4-Dichlorobenzene	ND	13	ND	2.1	
95-50-1	1,2-Dichlorobenzene	ND	13	ND	2.1	

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: MV Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-006

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: SC00025

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.8 Pf 1 = 3.6

Can D.F. = 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.75	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.60	
74-83-9	Bromomethane	ND	1.5	ND	0.40	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**37**	7.7	**15**	3.2	
75-69-4	Trichlorofluoromethane	**2.3**	1.5	**0.41**	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.39	
75-09-2	Methylene chloride	**1.7**	1.5	**0.48**	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	**1.9**	1.5	**0.61**	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.39	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.43	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.44	
78-93-3	2-Butanone (MEK)	**4.9**	1.5	**1.7**	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.39	
67-66-3	Chloroform	ND	1.5	ND	0.32	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	**5.7**	1.5	**1.0**	0.28	
71-43-2	Benzene	**14**	1.5	**4.5**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-58-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-006

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: SC00025

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.8 Pf 1 = 3.6

Can D.F. = 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.23	
79-01-6	Trichloroethene	**19**	1.5	**3.5**	0.29	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.34	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.38	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.34	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**17**	1.5	**4.5**	0.41	
591-78-6	2-Hexanone	ND	1.5	ND	0.38	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	**5.0**	1.5	**0.74**	0.23	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**2.8**	1.5	**0.64**	0.35	
179601-23-1	*m,p*-Xylenes	**12**	1.5	**2.6**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	**3.8**	1.5	**0.88**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.26	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.26	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.26	

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: W Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-39-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-007

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: SC00127

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.3 Pf 1 = 3.8

Can D.F. = 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.78	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.63	
74-83-9	Bromomethane	ND	1.6	ND	0.42	
75-00-3	Chloroethane	ND	1.6	ND	0.61	
67-64-1	Acetone	**14**	8.1	**5.9**	3.4	
75-69-4	Trichlorofluoromethane	**4.3**	1.6	**0.76**	0.29	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.41	
75-09-2	Methylene chloride	ND	1.6	ND	0.47	
76-13-1	Trichlorotrifluoroethane	**24**	1.6	**3.2**	0.21	
75-15-0	Carbon Disulfide	**13**	1.6	**4.2**	0.52	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	ND	0.41	
75-34-3	1,1-Dichloroethane	ND	1.6	ND	0.40	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	ND	0.45	
108-05-4	Vinyl Acetate	**3.9**	1.6	**1.1**	0.46	**M**
78-93-3	2-Butanone (MEK)	**4.1**	1.6	**1.4**	0.55	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	ND	0.41	
67-66-3	Chloroform	ND	1.6	ND	0.33	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.40	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.30	
71-43-2	Benzene	**23**	1.6	**7.2**	0.51	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.35	

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.

Verified By: µ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-39-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-007

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: SC00127

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.3 Pf 1 = 3.8

Can D.F. = 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	**59**	1.6	**11**	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.36	
108-10-1	4-Methyl-2-pentanone	**7.3**	1.6	**1.8**	0.40	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.36	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.30	
108-88-3	Toluene	**16**	1.6	**4.2**	0.43	
591-78-6	2-Hexanone	ND	1.6	ND	0.40	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	**85**	1.6	**13**	0.24	
108-90-7	Chlorobenzene	ND	1.6	ND	0.35	
100-41-4	Ethylbenzene	**5.3**	1.6	**1.2**	0.37	
179601-23-1	*m,p*-Xylenes	**18**	1.6	**4.0**	0.37	
75-25-2	Bromoform	ND	1.6	ND	0.16	
100-42-5	Styrene	ND	1.6	ND	0.38	
95-47-6	o-Xylene	**5.5**	1.6	**1.3**	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.24	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.27	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.27	

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: HJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-39-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-008

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: SC00113

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.5 Pf 1 = 3.5

Can D.F. = 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.79	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.64	
74-83-9	Bromomethane	ND	1.6	ND	0.42	
75-00-3	Chloroethane	ND	1.6	ND	0.62	
67-64-1	Acetone	**18**	8.2	**7.4**	3.4	
75-69-4	Trichlorofluoromethane	**3.1**	1.6	**0.55**	0.29	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.41	
75-09-2	Methylene chloride	ND	1.6	ND	0.47	
76-13-1	Trichlorotrifluoroethane	**8.8**	1.6	**1.2**	0.21	
75-15-0	Carbon Disulfide	**40**	1.6	**13**	0.52	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	ND	0.41	
75-34-3	1,1-Dichloroethane	ND	1.6	ND	0.40	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	ND	0.45	
108-05-4	Vinyl Acetate	**5.1**	1.6	**1.5**	0.46	**M**
78-93-3	2-Butanone (MEK)	**8.9**	1.6	**3.0**	0.55	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	ND	0.41	
67-66-3	Chloroform	ND	1.6	ND	0.33	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.40	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.30	
71-43-2	Benzene	**24**	1.6	**7.4**	0.51	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.35	

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.

Verified By: W Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-39-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-008

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: SC00113

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.5 Pf 1 = 3.5

Can D.F. = 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	**6.0**	1.6	**1.1**	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.36	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.40	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.36	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.30	
108-88-3	Toluene	**11**	1.6	**3.0**	0.43	
591-78-6	2-Hexanone	ND	1.6	ND	0.40	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	**30**	1.6	**4.5**	0.24	
108-90-7	Chlorobenzene	ND	1.6	ND	0.35	
100-41-4	Ethylbenzene	**3.2**	1.6	**0.73**	0.38	
179601-23-1	*m,p* -Xylenes	**13**	1.6	**3.0**	0.38	
75-25-2	Bromoform	ND	1.6	ND	0.16	
100-42-5	Styrene	ND	1.6	ND	0.38	
95-47-6	o-Xylene	**4.6**	1.6	**1.0**	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.24	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.27	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.27	

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: W Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-38-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-009

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: SC00624

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.5 Pf 1 = 3.7

Can D.F. = 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.73	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.59	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.57	
67-64-1	Acetone	**17**	7.6	**7.1**	3.2	
75-69-4	Trichlorofluoromethane	**56**	1.5	**10**	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.38	
75-09-2	Methylene chloride	ND	1.5	ND	0.43	
76-13-1	Trichlorotrifluoroethane	**3.1**	1.5	**0.40**	0.20	
75-15-0	Carbon Disulfide	**6.3**	1.5	**2.0**	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.38	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.37	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	**3.4**	1.5	**1.1**	0.51	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.38	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.37	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**21**	1.5	**6.5**	0.47	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: µ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-38-S-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-009

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: SC00624

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/26/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.5 Pf 1 = 3.7

Can D.F. = 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.23	
79-01-6	Trichloroethene	**22**	1.5	**4.0**	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**9.7**	1.5	**2.6**	0.40	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	**22**	1.5	**3.3**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**2.4**	1.5	**0.56**	0.35	
179601-23-1	*m,p* -Xylenes	**9.2**	1.5	**2.1**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.35	
95-47-6	o-Xylene	**2.9**	1.5	**0.68**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-38-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-010

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: SC00909

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/27/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -2.8 Pf 1 = 4.4

Can D.F. = 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	16	ND	7.8	
75-01-4	Vinyl Chloride	ND	16	ND	6.3	
74-83-9	Bromomethane	ND	16	ND	4.1	
75-00-3	Chloroethane	ND	16	ND	6.1	
67-64-1	Acetone	ND	81	ND	34	
75-69-4	Trichlorofluoromethane	ND	16	ND	2.9	
75-35-4	1,1-Dichloroethene	ND	16	ND	4.1	
75-09-2	Methylene chloride	ND	16	ND	4.6	
76-13-1	Trichlorotrifluoroethane	ND	16	ND	2.1	
75-15-0	Carbon Disulfide	ND	16	ND	5.2	
156-60-5	trans-1,2-Dichloroethene	ND	16	ND	4.1	
75-34-3	1,1-Dichloroethane	ND	16	ND	4.0	
1634-04-4	Methyl tert-Butyl Ether	ND	16	ND	4.5	
108-05-4	Vinyl Acetate	ND	16	ND	4.6	
78-93-3	2-Butanone (MEK)	ND	16	ND	5.5	
156-59-2	cis-1,2-Dichloroethene	ND	16	ND	4.1	
67-66-3	Chloroform	ND	16	ND	3.3	
107-06-2	1,2-Dichloroethane	ND	16	ND	4.0	
71-55-6	1,1,1-Trichloroethane	ND	16	ND	3.0	
71-43-2	Benzene	**22**	16	**6.8**	5.0	
56-23-5	Carbon Tetrachloride	ND	16	ND	2.6	
78-87-5	1,2-Dichloropropane	ND	16	ND	3.5	

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: MW Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-38-D-12-14-06**
Client Project ID: **WDI**

CAS Project ID: P2603461
CAS Sample ID: P2603461-010

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: SC00909

Date Collected: 12/14/06
Date Received: 12/15/06
Date(s) Analyzed: 12/27/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -2.8 Pf 1 = 4.4

Can D.F. = 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	16	ND	2.4	
79-01-6	Trichloroethene	ND	16	ND	3.0	
10061-01-5	cis-1,3-Dichloropropene	ND	16	ND	3.5	
108-10-1	4-Methyl-2-pentanone	ND	16	ND	3.9	
10061-02-6	trans-1,3-Dichloropropene	ND	16	ND	3.5	
79-00-5	1,1,2-Trichloroethane	ND	16	ND	3.0	
108-88-3	Toluene	ND	16	ND	4.3	
591-78-6	2-Hexanone	ND	16	ND	3.9	
124-48-1	Dibromochloromethane	ND	16	ND	1.9	
106-93-4	1,2-Dibromoethane	ND	16	ND	2.1	
127-18-4	Tetrachloroethene	**46**	16	**6.8**	2.4	
108-90-7	Chlorobenzene	ND	16	ND	3.5	
100-41-4	Ethylbenzene	ND	16	ND	3.7	
179601-23-1	*m,p* -Xylenes	ND	16	ND	3.7	
75-25-2	Bromoform	ND	16	ND	1.6	
100-42-5	Styrene	ND	16	ND	3.8	
95-47-6	o-Xylene	ND	16	ND	3.7	
79-34-5	1,1,2,2-Tetrachloroethane	ND	16	ND	2.3	
541-73-1	1,3-Dichlorobenzene	ND	16	ND	2.7	
106-46-7	1,4-Dichlorobenzene	ND	16	ND	2.7	
95-50-1	1,2-Dichlorobenzene	ND	16	ND	2.7	

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: uj Date: 1/3/07

5. SDG P2603502

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-49-S-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-001

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00211

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.2 Pf 1 = 3.5

D.F. = 1.46

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.15	
7782-44-7 7440-37-1	Oxygen + Argon *	**16.5**	0.15	
7727-37-9	Nitrogen	**79.8**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**3.63**	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: RW Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-49-S-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-001DUP

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00211

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.2 Pf 1 = 3.5
D.F. = 1.46

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.15	
7782-44-7 7440-37-1	Oxygen + Argon *	**16.5**	0.15	
7727-37-9	Nitrogen	**79.8**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**3.62**	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: RG Date: 1/8/07

03502SVG.RD1 - Dup

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-49-I-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-002

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00243

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.6 Pf 1 = 3.7

D.F. = 1.52

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 *	**3.84**	0.15	
7727-37-9	Nitrogen	**81.4**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**14.7**	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: RG Date: 1/8/07

03502SVG.RD1 - Sample (2)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-49-D-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-003

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00868

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.8 Pf 1 = 4.2

D.F. = 1.59

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.16	
7782-44-7 7440-37-1	Oxygen + Argon *	**3.76**	0.16	
7727-37-9	Nitrogen	**81.4**	0.16	
630-08-0	Carbon Monoxide	ND	0.16	
124-38-9	Carbon Dioxide	**14.9**	0.16	

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

Verified By: RG Date: 1/8/07

03502SVG.RD1 - Sample (3)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-55-I-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-004

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00160

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -0.9 Pf 1 = 3.5

D.F. = 1.32

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.13	
7782-44-7 7440-37-1	Oxygen + Argon *	**6.35**	0.13	
7727-37-9	Nitrogen	**80.0**	0.13	
630-08-0	Carbon Monoxide	ND	0.13	
74-82-8	Methane	**0.190**	0.13	
124-38-9	Carbon Dioxide	**13.4**	0.13	

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: RG Date: 1/8/07

03502SVG.RD1 - Sample (4)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : TRC
Client Sample ID: WDI-VW-55-I-12-19-06-SC
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-005

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00610

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.9 Pf 1 = 3.5

D.F. = 1.54

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 *	**1.06**	0.15	
7727-37-9	Nitrogen	**80.6**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
74-82-8	Methane	**0.280**	0.15	
124-38-9	Carbon Dioxide	**18.1**	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: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-55-S-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-006

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00241

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.1 Pf 1 = 3.7

D.F. = 1.46

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 *	**1.08**	0.15	
7727-37-9	Nitrogen	**85.9**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
74-82-8	Methane	**4.93**	0.15	
124-38-9	Carbon Dioxide	**8.05**	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: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-55-D-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-007

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00147

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.4 Pf 1 = 3.5

D.F. = 1.48

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 *	**1.19**	0.15	
7727-37-9	Nitrogen	**81.2**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**17.6**	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: RL Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-41-S-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-008

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00892

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.7 Pf 1 = 3.7

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 *	**21.6**	0.15	
7727-37-9	Nitrogen	**76.8**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**1.63**	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: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-41-D-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-009

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00330

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
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 *	**16.7**	0.15	
7727-37-9	Nitrogen	**77.3**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**5.97**	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: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-37-S-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-010

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00088

Date Collected: 12/20/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.9 Pf 1 = 3.5

D.F. = 1.54

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 *	**14.6**	0.15	
7727-37-9	Nitrogen	**80.7**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**4.61**	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: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-37-D-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-011

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00807

Date Collected: 12/20/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.7 Pf 1 = 3.5

D.F. = 1.52

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 *	**5.32**	0.15	
7727-37-9	Nitrogen	**83.7**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**11.0**	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: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-49-S-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-001

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00211

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.2 Pf 1 = 3.5
D.F. = 1.46

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.5**	0.73	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**1.9**	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: RG Date: 1/8/07

03502SVG.RD2 -Sample

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-49-I-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-002

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00243

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.6 Pf 1 = 3.7
D.F. = 1.52

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.76	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**4.8**	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: RL Date: 1/3/07

03502SVG.RD2 -Sample (2)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-49-D-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-003

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00868

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.8 Pf 1 = 4.2
D.F. = 1.59

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.80	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**5.5**	1.6	

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

Verified By: R.C. Date: 1/8/07

03502SVG.RD2 -Sample (3)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-55-I-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-004

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00160

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -0.9 Pf 1 = 3.5
D.F. = 1.32

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**16**	1.3	

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: 1/8/07

03502SVG.RD2 -Sample (4)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-55-I-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-004DUP

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00160

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -0.9 Pf 1 = 3.5
D.F. = 1.32

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**16**	1.3	

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: 1/8/07

03502SVG.RD2 -Dup (4)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-55-I-12-19-06-SC**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-005

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00610

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.9 Pf 1 = 3.5
D.F. = 1.54

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**24**	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: RL Date: 1/8/07

03502SVG.RD2 -Sample (5)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-55-S-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-006

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00241

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.1 Pf 1 = 3.7
D.F. = 1.46

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**300**	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: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-55-D-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-007

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00147

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.4 Pf 1 = 3.5
D.F. = 1.48

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**400**	0.74	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**6.3**	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: 1/8/07

03502SVG.RD2 -Sample (7)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-41-S-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-008

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00892

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.7 Pf 1 = 3.7
D.F. = 1.53

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.9**	0.77	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	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: 1/8/07

03502SVG.RD2 -Sample (8)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-41-D-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-009

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00330

Date Collected: 12/19/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
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	ND	0.77	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.3**	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: RG Date: 1/8/07

03502SVG.RD2 -Sample (9)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-37-S-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-010

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00088

Date Collected: 12/20/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.9 Pf 1 = 3.5
D.F. = 1.54

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.6**	0.77	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**1.7**	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: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-37-D-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-011

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00807

Date Collected: 12/20/06
Date Received: 12/20/06
Date Analyzed: 12/29/06
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.7 Pf 1 = 3.5
D.F. = 1.52

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.76	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**3.1**	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: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-49-S-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-001

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: SC00211

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/27/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.2 Pf 1 = 3.5

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.71	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.57	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.55	
67-64-1	Acetone	**15**	7.3	**6.2**	3.1	
75-69-4	Trichlorofluoromethane	**1.9**	1.5	**0.33**	0.26	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.37	
75-09-2	Methylene chloride	ND	1.5	ND	0.42	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	**3.3**	1.5	**1.1**	0.47	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.37	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.36	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.41	
78-93-3	2-Butanone (MEK)	**8.6**	1.5	**2.9**	0.50	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.36	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**11**	1.5	**3.3**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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: Ri Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-49-S-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-001

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: SC00211

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/27/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.2 Pf 1 = 3.5

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	**14**	1.5	**2.6**	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.32	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.32	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**76**	1.5	**20**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	**55**	1.5	**8.1**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**1.8**	1.5	**0.41**	0.34	
179601-23-1	*m,p*-Xylenes	**6.0**	1.5	**1.4**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.34	
95-47-6	o-Xylene	**2.0**	1.5	**0.46**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.24	

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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-49-I-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-002

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: SC00243

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/27/06
Volume(s) Analyzed: 0.060 Liter(s)
0.0015 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.7

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	25	ND	12	
75-01-4	Vinyl Chloride	ND	25	ND	9.9	
74-83-9	Bromomethane	ND	25	ND	6.5	
75-00-3	Chloroethane	ND	25	ND	9.6	
67-64-1	Acetone	ND	130	ND	53	
75-69-4	Trichlorofluoromethane	ND	25	ND	4.5	
75-35-4	1,1-Dichloroethene	ND	25	ND	6.4	
75-09-2	Methylene chloride	ND	25	ND	7.3	
76-13-1	Trichlorotrifluoroethane	ND	25	ND	3.3	
75-15-0	Carbon Disulfide	ND	25	ND	8.1	
156-60-5	trans-1,2-Dichloroethene	ND	25	ND	6.4	
75-34-3	1,1-Dichloroethane	ND	25	ND	6.3	
1634-04-4	Methyl tert-Butyl Ether	ND	25	ND	7.0	
108-05-4	Vinyl Acetate	ND	25	ND	7.2	
78-93-3	2-Butanone (MEK)	ND	25	ND	8.6	
156-59-2	cis-1,2-Dichloroethene	ND	25	ND	6.4	
67-66-3	Chloroform	ND	25	ND	5.2	
107-06-2	1,2-Dichloroethane	ND	25	ND	6.3	
71-55-6	1,1,1-Trichloroethane	ND	25	ND	4.6	
71-43-2	Benzene	ND	25	ND	7.9	
56-23-5	Carbon Tetrachloride	ND	25	ND	4.0	
78-87-5	1,2-Dichloropropane	ND	25	ND	5.5	

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: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-49-I-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-002

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: SC00243

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/27/06
Volume(s) Analyzed: 0.060 Liter(s)
0.0015 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.7

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	25	ND	3.8	
79-01-6	Trichloroethene	**68**	25	**13**	4.7	
10061-01-5	cis-1,3-Dichloropropene	ND	25	ND	5.6	
108-10-1	4-Methyl-2-pentanone	ND	25	ND	6.2	
10061-02-6	trans-1,3-Dichloropropene	ND	25	ND	5.6	
79-00-5	1,1,2-Trichloroethane	ND	25	ND	4.6	
108-88-3	Toluene	ND	25	ND	6.7	
591-78-6	2-Hexanone	ND	25	ND	6.2	
124-48-1	Dibromochloromethane	ND	25	ND	3.0	
106-93-4	1,2-Dibromoethane	ND	25	ND	3.3	
127-18-4	Tetrachloroethene	**1,800**	25	**270**	3.7	
108-90-7	Chlorobenzene	ND	25	ND	5.5	
100-41-4	Ethylbenzene	ND	25	ND	5.8	
179601-23-1	*m,p* -Xylenes	ND	25	ND	5.8	
75-25-2	Bromoform	ND	25	ND	2.5	
100-42-5	Styrene	ND	25	ND	6.0	
95-47-6	o-Xylene	ND	25	ND	5.8	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	ND	3.7	
541-73-1	1,3-Dichlorobenzene	ND	25	ND	4.2	
106-46-7	1,4-Dichlorobenzene	ND	25	ND	4.2	
95-50-1	1,2-Dichlorobenzene	ND	25	ND	4.2	

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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-49-D-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-003

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: SC00868

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/27 - 12/28/06
Volume(s) Analyzed: 0.30 Liter(s)
0.025 Liter(s)

Pi 1 = -2.8 Pf 1 = 4.2

Can D.F. = 1.59

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	5.3	ND	2.6	
75-01-4	Vinyl Chloride	ND	5.3	ND	2.1	
74-83-9	Bromomethane	ND	5.3	ND	1.4	
75-00-3	Chloroethane	ND	5.3	ND	2.0	
67-64-1	Acetone	ND	27	ND	11	
75-69-4	Trichlorofluoromethane	ND	5.3	ND	0.94	
75-35-4	1,1-Dichloroethene	ND	5.3	ND	1.3	
75-09-2	Methylene chloride	ND	5.3	ND	1.5	
76-13-1	Trichlorotrifluoroethane	ND	5.3	ND	0.69	
75-15-0	Carbon Disulfide	ND	5.3	ND	1.7	
156-60-5	trans-1,2-Dichloroethene	ND	5.3	ND	1.3	
75-34-3	1,1-Dichloroethane	ND	5.3	ND	1.3	
1634-04-4	Methyl tert-Butyl Ether	ND	5.3	ND	1.5	
108-05-4	Vinyl Acetate	ND	5.3	ND	1.5	
78-93-3	2-Butanone (MEK)	ND	5.3	ND	1.8	
156-59-2	cis-1,2-Dichloroethene	ND	5.3	ND	1.3	
67-66-3	Chloroform	ND	5.3	ND	1.1	
107-06-2	1,2-Dichloroethane	ND	5.3	ND	1.3	
71-55-6	1,1,1-Trichloroethane	ND	5.3	ND	0.97	
71-43-2	Benzene	**15**	5.3	**4.6**	1.7	
56-23-5	Carbon Tetrachloride	ND	5.3	ND	0.84	
78-87-5	1,2-Dichloropropane	ND	5.3	ND	1.1	

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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-49-D-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-003

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: SC00868

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/27 - 12/28/06
Volume(s) Analyzed: 0.30 Liter(s)
0.025 Liter(s)

Pi 1 = -2.8 Pf 1 = 4.2

Can D.F. = 1.59

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	5.3	ND	0.79	
79-01-6	Trichloroethene	**57**	5.3	**11**	0.99	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	ND	1.2	
108-10-1	4-Methyl-2-pentanone	ND	5.3	ND	1.3	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	ND	1.2	
79-00-5	1,1,2-Trichloroethane	ND	5.3	ND	0.97	
108-88-3	Toluene	**18**	5.3	**4.7**	1.4	
591-78-6	2-Hexanone	ND	5.3	ND	1.3	
124-48-1	Dibromochloromethane	ND	5.3	ND	0.62	
106-93-4	1,2-Dibromoethane	ND	5.3	ND	0.69	
127-18-4	Tetrachloroethene	**4,000**	5.3	**600**	0.78	
108-90-7	Chlorobenzene	ND	5.3	ND	1.2	
100-41-4	Ethylbenzene	ND	5.3	ND	1.2	
179601-23-1	*m,p*-Xylenes	**9.5**	5.3	**2.2**	1.2	
75-25-2	Bromoform	ND	5.3	ND	0.51	
100-42-5	Styrene	ND	5.3	ND	1.2	
95-47-6	o-Xylene	ND	5.3	ND	1.2	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	ND	0.77	
541-73-1	1,3-Dichlorobenzene	ND	5.3	ND	0.88	
106-46-7	1,4-Dichlorobenzene	ND	5.3	ND	0.88	
95-50-1	1,2-Dichlorobenzene	ND	5.3	ND	0.88	

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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-55-I-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-004

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: SC00160

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/27/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -0.9 Pf 1 = 3.5

Can D.F. = 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	13	ND	6.4	
75-01-4	Vinyl Chloride	**18**	13	**7.2**	5.2	
74-83-9	Bromomethane	ND	13	ND	3.4	
75-00-3	Chloroethane	ND	13	ND	5.0	
67-64-1	Acetone	ND	66	ND	28	
75-69-4	Trichlorofluoromethane	ND	13	ND	2.3	
75-35-4	1,1-Dichloroethene	ND	13	ND	3.3	
75-09-2	Methylene chloride	ND	13	ND	3.8	
76-13-1	Trichlorotrifluoroethane	ND	13	ND	1.7	
75-15-0	Carbon Disulfide	ND	13	ND	4.2	
156-60-5	trans-1,2-Dichloroethene	ND	13	ND	3.3	
75-34-3	1,1-Dichloroethane	ND	13	ND	3.3	
1634-04-4	Methyl tert-Butyl Ether	ND	13	ND	3.7	
108-05-4	Vinyl Acetate	ND	13	ND	3.8	
78-93-3	2-Butanone (MEK)	ND	13	ND	4.5	
156-59-2	cis-1,2-Dichloroethene	**89**	13	**23**	3.3	
67-66-3	Chloroform	ND	13	ND	2.7	
107-06-2	1,2-Dichloroethane	ND	13	ND	3.3	
71-55-6	1,1,1-Trichloroethane	ND	13	ND	2.4	
71-43-2	Benzene	**36**	13	**11**	4.1	
56-23-5	Carbon Tetrachloride	ND	13	ND	2.1	
78-87-5	1,2-Dichloropropane	ND	13	ND	2.9	

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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-55-I-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-004

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: SC00160

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/27/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -0.9 Pf 1 = 3.5

Can D.F. = 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	13	ND	2.0	
79-01-6	Trichloroethene	**59**	13	**11**	2.5	
10061-01-5	cis-1,3-Dichloropropene	ND	13	ND	2.9	
108-10-1	4-Methyl-2-pentanone	ND	13	ND	3.2	
10061-02-6	trans-1,3-Dichloropropene	ND	13	ND	2.9	
79-00-5	1,1,2-Trichloroethane	ND	13	ND	2.4	
108-88-3	Toluene	ND	13	ND	3.5	
591-78-6	2-Hexanone	ND	13	ND	3.2	
124-48-1	Dibromochloromethane	ND	13	ND	1.6	
106-93-4	1,2-Dibromoethane	ND	13	ND	1.7	
127-18-4	Tetrachloroethene	ND	13	ND	1.9	
108-90-7	Chlorobenzene	ND	13	ND	2.9	
100-41-4	Ethylbenzene	ND	13	ND	3.0	
179601-23-1	*m,p*-Xylenes	ND	13	ND	3.0	
75-25-2	Bromoform	ND	13	ND	1.3	
100-42-5	Styrene	ND	13	ND	3.1	
95-47-6	o-Xylene	ND	13	ND	3.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	13	ND	1.9	
541-73-1	1,3-Dichlorobenzene	ND	13	ND	2.2	
106-46-7	1,4-Dichlorobenzene	ND	13	ND	2.2	
95-50-1	1,2-Dichlorobenzene	ND	13	ND	2.2	

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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-55-I-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-004DUP

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: SC00160

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/27/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -0.9 Pf 1 = 3.5

Can D.F. = 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	13	ND	6.4	
75-01-4	Vinyl Chloride	**18**	13	**6.9**	5.2	
74-83-9	Bromomethane	ND	13	ND	3.4	
75-00-3	Chloroethane	ND	13	ND	5.0	
67-64-1	Acetone	ND	66	ND	28	
75-69-4	Trichlorofluoromethane	ND	13	ND	2.3	
75-35-4	1,1-Dichloroethene	ND	13	ND	3.3	
75-09-2	Methylene chloride	ND	13	ND	3.8	
76-13-1	Trichlorotrifluoroethane	ND	13	ND	1.7	
75-15-0	Carbon Disulfide	ND	13	ND	4.2	
156-60-5	trans-1,2-Dichloroethene	ND	13	ND	3.3	
75-34-3	1,1-Dichloroethane	ND	13	ND	3.3	
1634-04-4	Methyl tert-Butyl Ether	ND	13	ND	3.7	
108-05-4	Vinyl Acetate	ND	13	ND	3.8	
78-93-3	2-Butanone (MEK)	ND	13	ND	4.5	
156-59-2	cis-1,2-Dichloroethene	**87**	13	**22**	3.3	
67-66-3	Chloroform	ND	13	ND	2.7	
107-06-2	1,2-Dichloroethane	ND	13	ND	3.3	
71-55-6	1,1,1-Trichloroethane	ND	13	ND	2.4	
71-43-2	Benzene	**35**	13	**11**	4.1	
56-23-5	Carbon Tetrachloride	ND	13	ND	2.1	
78-87-5	1,2-Dichloropropane	ND	13	ND	2.9	

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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-55-I-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-004DUP

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: SC00160

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/27/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -0.9 Pf 1 = 3.5

Can D.F. = 1.32

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	13	ND	2.0	
79-01-6	Trichloroethene	**58**	13	**11**	2.5	
10061-01-5	cis-1,3-Dichloropropene	ND	13	ND	2.9	
108-10-1	4-Methyl-2-pentanone	ND	13	ND	3.2	
10061-02-6	trans-1,3-Dichloropropene	ND	13	ND	2.9	
79-00-5	1,1,2-Trichloroethane	ND	13	ND	2.4	
108-88-3	Toluene	ND	13	ND	3.5	
591-78-6	2-Hexanone	ND	13	ND	3.2	
124-48-1	Dibromochloromethane	ND	13	ND	1.6	
106-93-4	1,2-Dibromoethane	ND	13	ND	1.7	
127-18-4	Tetrachloroethene	ND	13	ND	1.9	
108-90-7	Chlorobenzene	ND	13	ND	2.9	
100-41-4	Ethylbenzene	ND	13	ND	3.0	
179601-23-1	*m,p*-Xylenes	ND	13	ND	3.0	
75-25-2	Bromoform	ND	13	ND	1.3	
100-42-5	Styrene	ND	13	ND	3.1	
95-47-6	o-Xylene	ND	13	ND	3.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	13	ND	1.9	
541-73-1	1,3-Dichlorobenzene	ND	13	ND	2.2	
106-46-7	1,4-Dichlorobenzene	ND	13	ND	2.2	
95-50-1	1,2-Dichlorobenzene	ND	13	ND	2.2	

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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-55-I-12-19-06-SC
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-005

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: SC00610

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/27/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -2.9 Pf 1 = 3.5

Can D.F. = 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	15	ND	7.5	
75-01-4	Vinyl Chloride	**24**	15	**9.2**	6.0	
74-83-9	Bromomethane	ND	15	ND	4.0	
75-00-3	Chloroethane	ND	15	ND	5.8	
67-64-1	Acetone	**480**	77	**200**	32	**M**
75-69-4	Trichlorofluoromethane	ND	15	ND	2.7	
75-35-4	1,1-Dichloroethene	ND	15	ND	3.9	
75-09-2	Methylene chloride	ND	15	ND	4.4	
76-13-1	Trichlorotrifluoroethane	ND	15	ND	2.0	
75-15-0	Carbon Disulfide	ND	15	ND	4.9	
156-60-5	trans-1,2-Dichloroethene	ND	15	ND	3.9	
75-34-3	1,1-Dichloroethane	ND	15	ND	3.8	
1634-04-4	Methyl tert-Butyl Ether	ND	15	ND	4.3	
108-05-4	Vinyl Acetate	ND	15	ND	4.4	
78-93-3	2-Butanone (MEK)	**86**	15	**29**	5.2	
156-59-2	cis-1,2-Dichloroethene	**120**	15	**30**	3.9	
67-66-3	Chloroform	ND	15	ND	3.2	
107-06-2	1,2-Dichloroethane	ND	15	ND	3.8	
71-55-6	1,1,1-Trichloroethane	ND	15	ND	2.8	
71-43-2	Benzene	**50**	15	**16**	4.8	
56-23-5	Carbon Tetrachloride	ND	15	ND	2.4	
78-87-5	1,2-Dichloropropane	ND	15	ND	3.3	

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.

Verified By: RL Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-55-I-12-19-06-SC
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-005

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: SC00610

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/27/06
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -2.9 Pf 1 = 3.5

Can D.F. = 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	15	ND	2.3	
79-01-6	Trichloroethene	**78**	15	**14**	2.9	
10061-01-5	cis-1,3-Dichloropropene	ND	15	ND	3.4	
108-10-1	4-Methyl-2-pentanone	ND	15	ND	3.8	
10061-02-6	trans-1,3-Dichloropropene	ND	15	ND	3.4	
79-00-5	1,1,2-Trichloroethane	ND	15	ND	2.8	
108-88-3	Toluene	ND	15	ND	4.1	
591-78-6	2-Hexanone	ND	15	ND	3.8	
124-48-1	Dibromochloromethane	ND	15	ND	1.8	
106-93-4	1,2-Dibromoethane	ND	15	ND	2.0	
127-18-4	Tetrachloroethene	ND	15	ND	2.3	
108-90-7	Chlorobenzene	ND	15	ND	3.3	
100-41-4	Ethylbenzene	ND	15	ND	3.5	
179601-23-1	*m,p* -Xylenes	ND	15	ND	3.5	
75-25-2	Bromoform	ND	15	ND	1.5	
100-42-5	Styrene	ND	15	ND	3.6	
95-47-6	o-Xylene	ND	15	ND	3.5	
79-34-5	1,1,2,2-Tetrachloroethane	ND	15	ND	2.2	
541-73-1	1,3-Dichlorobenzene	ND	15	ND	2.6	
106-46-7	1,4-Dichlorobenzene	ND	15	ND	2.6	
95-50-1	1,2-Dichlorobenzene	ND	15	ND	2.6	

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

Verified By: Rc Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-55-S-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-006

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: SC00241

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/28/06
Volume(s) Analyzed: 0.025 Liter(s)

Pi 1 = -2.1 Pf 1 = 3.7

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	58	ND	28	
75-01-4	Vinyl Chloride	ND	58	ND	23	
74-83-9	Bromomethane	ND	58	ND	15	
75-00-3	Chloroethane	ND	58	ND	22	
67-64-1	Acetone	ND	290	ND	120	
75-69-4	Trichlorofluoromethane	ND	58	ND	10	
75-35-4	1,1-Dichloroethene	ND	58	ND	15	
75-09-2	Methylene chloride	ND	58	ND	17	
76-13-1	Trichlorotrifluoroethane	ND	58	ND	7.6	
75-15-0	Carbon Disulfide	ND	58	ND	19	
156-60-5	trans-1,2-Dichloroethene	ND	58	ND	15	
75-34-3	1,1-Dichloroethane	ND	58	ND	14	
1634-04-4	Methyl tert-Butyl Ether	ND	58	ND	16	
108-05-4	Vinyl Acetate	ND	58	ND	17	
78-93-3	2-Butanone (MEK)	ND	58	ND	20	
156-59-2	cis-1,2-Dichloroethene	ND	58	ND	15	
67-66-3	Chloroform	ND	58	ND	12	
107-06-2	1,2-Dichloroethane	ND	58	ND	14	
71-55-6	1,1,1-Trichloroethane	ND	58	ND	11	
71-43-2	Benzene	ND	58	ND	18	
56-23-5	Carbon Tetrachloride	ND	58	ND	9.3	
78-87-5	1,2-Dichloropropane	ND	58	ND	13	

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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-55-S-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-006

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: SC00241

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/28/06
Volume(s) Analyzed: 0.025 Liter(s)

Pi 1 = -2.1 Pf 1 = 3.7

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	58	ND	8.7	
79-01-6	Trichloroethene	ND	58	ND	11	
10061-01-5	cis-1,3-Dichloropropene	ND	58	ND	13	
108-10-1	4-Methyl-2-pentanone	ND	58	ND	14	
10061-02-6	trans-1,3-Dichloropropene	ND	58	ND	13	
79-00-5	1,1,2-Trichloroethane	ND	58	ND	11	
108-88-3	Toluene	ND	58	ND	16	
591-78-6	2-Hexanone	ND	58	ND	14	
124-48-1	Dibromochloromethane	ND	58	ND	6.9	
106-93-4	1,2-Dibromoethane	ND	58	ND	7.6	
127-18-4	Tetrachloroethene	ND	58	ND	8.6	
108-90-7	Chlorobenzene	ND	58	ND	13	
100-41-4	Ethylbenzene	ND	58	ND	13	
179601-23-1	*m,p*-Xylenes	ND	58	ND	13	
75-25-2	Bromoform	ND	58	ND	5.7	
100-42-5	Styrene	ND	58	ND	14	
95-47-6	o-Xylene	ND	58	ND	13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	58	ND	8.5	
541-73-1	1,3-Dichlorobenzene	ND	58	ND	9.7	
106-46-7	1,4-Dichlorobenzene	ND	58	ND	9.7	
95-50-1	1,2-Dichlorobenzene	ND	58	ND	9.7	

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

Verified By: Rcr Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-55-S-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-006DUP

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: SC00241

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/28/06
Volume(s) Analyzed: 0.025 Liter(s)

Pi 1 = -2.1 Pf 1 = 3.7

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	58	ND	28	
75-01-4	Vinyl Chloride	ND	58	ND	23	
74-83-9	Bromomethane	ND	58	ND	15	
75-00-3	Chloroethane	ND	58	ND	22	
67-64-1	Acetone	ND	290	ND	120	
75-69-4	Trichlorofluoromethane	ND	58	ND	10	
75-35-4	1,1-Dichloroethene	ND	58	ND	15	
75-09-2	Methylene chloride	ND	58	ND	17	
76-13-1	Trichlorotrifluoroethane	ND	58	ND	7.6	
75-15-0	Carbon Disulfide	ND	58	ND	19	
156-60-5	trans-1,2-Dichloroethene	ND	58	ND	15	
75-34-3	1,1-Dichloroethane	ND	58	ND	14	
1634-04-4	Methyl tert-Butyl Ether	ND	58	ND	16	
108-05-4	Vinyl Acetate	ND	58	ND	17	
78-93-3	2-Butanone (MEK)	ND	58	ND	20	
156-59-2	cis-1,2-Dichloroethene	ND	58	ND	15	
67-66-3	Chloroform	ND	58	ND	12	
107-06-2	1,2-Dichloroethane	ND	58	ND	14	
71-55-6	1,1,1-Trichloroethane	ND	58	ND	11	
71-43-2	Benzene	ND	58	ND	18	
56-23-5	Carbon Tetrachloride	ND	58	ND	9.3	
78-87-5	1,2-Dichloropropane	ND	58	ND	13	

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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-55-S-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-006DUP

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: SC00241

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/28/06
Volume(s) Analyzed: 0.025 Liter(s)

Pi 1 = -2.1 Pf 1 = 3.7

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	58	ND	8.7	
79-01-6	Trichloroethene	ND	58	ND	11	
10061-01-5	cis-1,3-Dichloropropene	ND	58	ND	13	
108-10-1	4-Methyl-2-pentanone	ND	58	ND	14	
10061-02-6	trans-1,3-Dichloropropene	ND	58	ND	13	
79-00-5	1,1,2-Trichloroethane	ND	58	ND	11	
108-88-3	Toluene	ND	58	ND	16	
591-78-6	2-Hexanone	ND	58	ND	14	
124-48-1	Dibromochloromethane	ND	58	ND	6.9	
106-93-4	1,2-Dibromoethane	ND	58	ND	7.6	
127-18-4	Tetrachloroethene	ND	58	ND	8.6	
108-90-7	Chlorobenzene	ND	58	ND	13	
100-41-4	Ethylbenzene	ND	58	ND	13	
179601-23-1	*m,p* -Xylenes	ND	58	ND	13	
75-25-2	Bromoform	ND	58	ND	5.7	
100-42-5	Styrene	ND	58	ND	14	
95-47-6	o-Xylene	ND	58	ND	13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	58	ND	8.5	
541-73-1	1,3-Dichlorobenzene	ND	58	ND	9.7	
106-46-7	1,4-Dichlorobenzene	ND	58	ND	9.7	
95-50-1	1,2-Dichlorobenzene	ND	58	ND	9.7	

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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-55-D-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-007

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: SC00147

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/28/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.4 Pf 1 = 3.5

Can D.F. = 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.72	
75-01-4	Vinyl Chloride	**3.2**	1.5	**1.3**	0.58	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.56	
67-64-1	Acetone	**53**	7.4	**22**	3.1	**M**
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.26	
75-35-4	1,1-Dichloroethene	**2.5**	1.5	**0.63**	0.37	
75-09-2	Methylene chloride	ND	1.5	ND	0.43	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.48	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.37	
75-34-3	1,1-Dichloroethane	**2.6**	1.5	**0.63**	0.37	
1634-04-4	Methyl tert-Butyl Ether	**6.2**	1.5	**1.7**	0.41	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.42	
78-93-3	2-Butanone (MEK)	**1.8**	1.5	**0.60**	0.50	
156-59-2	cis-1,2-Dichloroethene	**14**	1.5	**3.6**	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.37	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**15**	1.5	**4.6**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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.

Verified By: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-55-D-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-007

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: SC00147

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/28/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi l = -2.4 Pf l = 3.5

Can D.F. = 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	**26**	1.5	**4.8**	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**4.7**	1.5	**1.3**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	**27**	1.5	**4.0**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**1.6**	1.5	**0.37**	0.34	
179601-23-1	*m,p*-Xylenes	**6.0**	1.5	**1.4**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.35	
95-47-6	o-Xylene	**2.9**	1.5	**0.68**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: Rc Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-41-S-12-19-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-008

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: SC00892

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/28/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.7

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.60	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**15**	7.7	**6.1**	3.2	**M**
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.39	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.39	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	**1.7**	1.5	**0.58**	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.39	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**8.8**	1.5	**2.8**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-41-S-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-008

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: SC00892

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/28/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.7

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.23	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.34	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.34	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**6.6**	1.5	**1.7**	0.41	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	**120**	1.5	**17**	0.23	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**1.8**	1.5	**0.41**	0.35	
179601-23-1	*m,p*-Xylenes	**7.0**	1.5	**1.6**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	**2.4**	1.5	**0.54**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: RG Date: 1/9/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-41-D-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-009

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: SC00330

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/28/06
Volume(s) Analyzed: 1.00 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	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.60	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**11**	7.7	**4.6**	3.2	
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.39	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.39	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	**1.6**	1.5	**0.55**	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.39	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**11**	1.5	**3.5**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-41-D-12-19-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-009

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: SC00330

Date Collected: 12/19/06
Date Received: 12/20/06
Date(s) Analyzed: 12/28/06
Volume(s) Analyzed: 1.00 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	1.5	ND	0.23	
79-01-6	Trichloroethene	**4.1**	1.5	**0.77**	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.34	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.34	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**6.2**	1.5	**1.6**	0.41	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	**45**	1.5	**6.7**	0.23	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**1.6**	1.5	**0.37**	0.35	
179601-23-1	*m,p*-Xylenes	**6.5**	1.5	**1.5**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	**2.1**	1.5	**0.48**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-37-S-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603502
CAS Sample ID: P2603502-010

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: SC00088

Date Collected: 12/20/06
Date Received: 12/20/06
Date(s) Analyzed: 12/28/06
Volume(s) Analyzed: 1.00 Liter(s)
0.025 Liter(s)

Pi l = -2.9 Pf l = 3.5

Can D.F. = 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.75	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.60	
74-83-9	Bromomethane	ND	1.5	ND	0.40	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**15**	7.7	**6.3**	3.2	
75-69-4	Trichlorofluoromethane	**220**	1.5	**40**	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.39	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	**4.9**	1.5	**0.64**	0.20	
75-15-0	Carbon Disulfide	**2.2**	1.5	**0.70**	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.39	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.43	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.44	
78-93-3	2-Butanone (MEK)	**2.7**	1.5	**0.91**	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.39	
67-66-3	Chloroform	ND	1.5	ND	0.32	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**17**	1.5	**5.3**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-37-S-12-20-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-010

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: SC00088

Date Collected: 12/20/06
Date Received: 12/20/06
Date(s) Analyzed: 12/28/06
Volume(s) Analyzed: 1.00 Liter(s)
0.025 Liter(s)

Pi 1 = -2.9 Pf 1 = 3.5
Can D.F. = 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.23	
79-01-6	Trichloroethene	ND	1.5	ND	0.29	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.34	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.38	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.34	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**8.8**	1.5	**2.3**	0.41	
591-78-6	2-Hexanone	ND	1.5	ND	0.38	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	**49**	1.5	**7.2**	0.23	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**1.9**	1.5	**0.44**	0.35	
179601-23-1	*m,p*-Xylenes	**8.0**	1.5	**1.8**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	**2.6**	1.5	**0.59**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.26	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.26	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.26	

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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-37-D-12-20-06
Client Project ID: WDI

CAS Project ID: P2603502
CAS Sample ID: P2603502-011

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00807

Date Collected: 12/20/06
Date Received: 12/20/06
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.59	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**15**	7.6	**6.2**	3.2	**M**
75-69-4	Trichlorofluoromethane	**460**	1.5	**82**	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.38	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	**10**	1.5	**1.3**	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.38	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	**3.5**	1.5	**1.0**	0.43	
78-93-3	2-Butanone (MEK)	**2.6**	1.5	**0.88**	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.38	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**9.6**	1.5	**3.0**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: RG Date: 1/8/07

6. SDG P2603530

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-61-S-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-001

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00660

Date Collected: 12/20/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.4 Pf 1 = 3.5

D.F. = 1.48

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 *	**6.32**	0.15	
7727-37-9	Nitrogen	**87.2**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**6.49**	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: MW Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-61-I-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-002

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00891

Date Collected: 12/20/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.6 Pf 1 = 3.5

D.F. = 1.50

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 *	**5.00**	0.15	
7727-37-9	Nitrogen	**79.8**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**15.2**	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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : TRC
Client Sample ID: WDI-VW-61-I-12-20-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-002DUP

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00891

Date Collected: 12/20/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.6 Pf 1 = 3.5

D.F. = 1.50

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 *	**4.89**	0.15	
7727-37-9	Nitrogen	**79.8**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**15.3**	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: W Date: 1/10/07

03530SVG.RE1 - Dup (2)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-61-D-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-003

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00380

Date Collected: 12/20/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

outside HT JLWS

Pi 1 = -2.7 Pf 1 = 3.5

D.F. = 1.52

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.15	UJ
7782-44-7 7440-37-1	Oxygen + Argon *	**3.75**	0.15	J
7727-37-9	Nitrogen	**80.3**	0.15	J
630-08-0	Carbon Monoxide	ND	0.15	UJ
124-38-9	Carbon Dioxide	**15.9**	0.15	J

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: MW Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-51-S-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-004

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00124

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.3 Pf 1 = 3.5

D.F. = 1.47

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 *	**1.44**	0.15	
7727-37-9	Nitrogen	**88.7**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**9.84**	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: WJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-51-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-005

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00331

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.2 Pf 1 = 3.5
D.F. = 1.46

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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-51-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-006

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00157

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.7 Pf 1 = 3.5

D.F. = 1.52

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 *	**1.50**	0.15	
7727-37-9	Nitrogen	**84.1**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
74-82-8	Methane	**0.565**	0.15	
124-38-9	Carbon Dioxide	**13.8**	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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-30-S-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-007

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00856

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.7 Pf 1 = 3.7

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 *	**14.8**	0.15	
7727-37-9	Nitrogen	**79.9**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**5.31**	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: ws Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-30-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-008

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00443

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.1 Pf 1 = 3.5

D.F. = 1.44

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.14	
7782-44-7 7440-37-1	Oxygen + Argon *	**12.9**	0.14	
7727-37-9	Nitrogen	**80.3**	0.14	
630-08-0	Carbon Monoxide	ND	0.14	
124-38-9	Carbon Dioxide	**6.82**	0.14	

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: MS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-30-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-009

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00368

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.0 Pf 1 = 3.6

D.F. = 1.44

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.14	
7782-44-7 7440-37-1	Oxygen + Argon *	**15.7**	0.14	
7727-37-9	Nitrogen	**80.4**	0.14	
630-08-0	Carbon Monoxide	ND	0.14	
124-38-9	Carbon Dioxide	**3.90**	0.14	

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: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-62-S-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-010

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00310

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.0 Pf 1 = 3.5
D.F. = 1.43

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.14	
7782-44-7 7440-37-1	Oxygen + Argon *	**1.23**	0.14	
7727-37-9	Nitrogen	**81.0**	0.14	
630-08-0	Carbon Monoxide	ND	0.14	
74-82-8	Methane	**4.11**	0.14	
124-38-9	Carbon Dioxide	**13.7**	0.14	

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: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-62-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-011

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00277

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.3 Pf 1 = 3.5

D.F. = 1.47

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 *	**1.72**	0.15	
7727-37-9	Nitrogen	**82.4**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**15.9**	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: MS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-62-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-012

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00764

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.2 Pf 1 = 3.5

D.F. = 1.46

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 *	**1.49**	0.15	
7727-37-9	Nitrogen	**82.6**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**15.9**	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: MV Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-62-12-21-06 Ambient**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-013

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

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
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	**77.8**	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: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-36-S-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-014

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00075

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.9 Pf 1 = 3.5
D.F. = 1.54

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 *	**17.7**	0.15	
7727-37-9	Nitrogen	**77.6**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**4.70**	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: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-36-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-015

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00327

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.7 Pf 1 = 3.5
D.F. = 1.52

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 *	**11.2**	0.15	
7727-37-9	Nitrogen	**78.9**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**9.89**	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: MS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-42-S-12-22-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-016

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00403

Date Collected: 12/22/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.2 Pf 1 = 3.5

D.F. = 1.46

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 *	**17.6**	0.15	
7727-37-9	Nitrogen	**76.9**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**5.50**	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: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-42-D-12-22-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-017

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00351

Date Collected: 12/22/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.4 Pf 1 = 3.5

D.F. = 1.48

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 *	**9.93**	0.15	
7727-37-9	Nitrogen	**77.8**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
124-38-9	Carbon Dioxide	**12.3**	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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-42-12-22-06 Ambient**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-018

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00078

Date Collected: 12/22/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.6 Pf 1 = 3.5

D.F. = 1.50

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: WS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-25-12-22-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-019

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00711

Date Collected: 12/22/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -2.4 Pf 1 = 3.5

D.F. = 1.48

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 *	**2.36**	0.15	
7727-37-9	Nitrogen	**81.5**	0.15	
630-08-0	Carbon Monoxide	ND	0.15	
74-82-8	Methane	**0.274**	0.15	
124-38-9	Carbon Dioxide	**15.8**	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: WJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-Trip Blank -01**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-020

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

Date Collected: 12/6/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
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: MV Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-Trip Blank -02**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-021

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

Date Collected: 12/6/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
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: WJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-VW-Trip Blank -03**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-022

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

Date Collected: 12/22/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
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: MV Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-61-S-12-20-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-001

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00660

Date Collected: 12/20/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.4 Pf 1 = 3.5
D.F. = 1.48

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**8.0**	0.74	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	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: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-61-I-12-20-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-002

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00891

Date Collected: 12/20/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.6 Pf 1 = 3.5
D.F. = 1.50

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**4.8**	0.75	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**4.9**	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: WJ Date: 1/10/07

03530SVG RD1 -Sample (2)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-61-D-12-20-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-003

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00380

Date Collected: 12/20/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
) outside HT J/WJ
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.7 Pf 1 = 3.5
D.F. = 1.52

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**3.4**	0.76	J
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**4.0**	1.5	J

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: WJ Date: 1/10/07

03530SVG.RD1 -Sample (3)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-51-S-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-004

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00124

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.3 Pf 1 = 3.5
D.F. = 1.47

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**62**	0.74	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**3.5**	1.5	

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

Verified By: WS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-51-S-12-21-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-004DUP

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00124

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.3 Pf 1 = 3.5
D.F. = 1.47

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**61**	0.74	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**3.3**	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: W Date: 1/10/07

03530SVG.RD1 -Dup (4)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-51-I-12-21-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-005

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00331

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.2 Pf 1 = 3.5
D.F. = 1.46

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**54**	0.73	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**1.5**	1.5	

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

Verified By: MJ Date: 1/10/07

03530SVG.RD1 -Sample (5)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-51-D-12-21-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-006

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00157

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.7 Pf 1 = 3.5
D.F. = 1.52

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**430**	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: MS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-30-S-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-007

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00856

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.7 Pf 1 = 3.7
D.F. = 1.53

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.2**	0.77	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.1**	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: W Date: 1/10/07

03530SVG.RD1 -Sample (7)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-30-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-008

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00443

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.1 Pf 1 = 3.5
D.F. = 1.44

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.1**	0.72	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.0**	1.4	

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

Verified By: WJ Date: 1/10/07

03530SVG.RD1 -Sample (8)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-30-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-009

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00368

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.0 Pf 1 = 3.6
D.F. = 1.44

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.5**	0.72	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**1.9**	1.4	

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

Verified By: W Date: 1/10/07

03530SVG.RD1 -Sample (9)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-62-S-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-010

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00310

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.0 Pf 1 = 3.5
D.F. = 1.43

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**160**	1.4	

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

Verified By: WS Date: 1/10/07

03530SVG.RD1 -Sample (10)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-62-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-011

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00277

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.3 Pf 1 = 3.5
D.F. = 1.47

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**14**	0.74	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**4.8**	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: MJ Date: 1/10/07

03530SVG.RD1 -Sample (11)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-62-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-012

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00764

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.2 Pf 1 = 3.5
D.F. = 1.46

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**22**	0.73	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**4.3**	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: MU Date: 1/10/07

03530SVG.RD1 -Sample (12)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-62-12-21-06 Ambient**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-013

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

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
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	**2.3**	0.77	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	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: ws Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-36-S-12-21-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-014

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00075

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.9 Pf 1 = 3.5
D.F. = 1.54

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**0.86**	0.77	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**2.6**	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: MJ Date: 1/10/07

03530SVG.RD1 -Sample (14)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-36-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-015

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00327

Date Collected: 12/21/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.7 Pf 1 = 3.5
D.F. = 1.52

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.76	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	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: MU Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-42-S-12-22-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-016

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00403

Date Collected: 12/22/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.2 Pf 1 = 3.5
D.F. = 1.46

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**0.85**	0.73	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**1.9**	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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-42-D-12-22-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-017

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00351

Date Collected: 12/22/06
Date Received: 12/22/06
Date Analyzed: 1/4/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.4 Pf 1 = 3.5
D.F. = 1.48

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.74	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**3.9**	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: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-25-12-22-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-019

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00711

Date Collected: 12/22/06
Date Received: 12/22/06
Date Analyzed: 1/5/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.4 Pf 1 = 3.5
D.F. = 1.48

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
	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: W Date: 1/10/07

03530SVG.RD3 -Sample (19)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-Trip Blank -01**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-020

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

Date Collected: 12/6/06
Date Received: 12/22/06
Date Analyzed: 1/5/07
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: MW Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-Trip Blank -02**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-021

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

Date Collected: 12/6/06
Date Received: 12/22/06
Date Analyzed: 1/5/07
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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-Trip Blank -03
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-022

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

Date Collected: 12/22/06
Date Received: 12/22/06
Date Analyzed: 1/5/07
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: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-61-S-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00660

Date Collected: 12/20/06
Date Received: 12/22/06
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.4 Pf 1 = 3.5

Can D.F. = 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.72	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.58	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.56	
67-64-1	Acetone	**11**	7.4	**4.8**	3.1	
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.26	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.37	
75-09-2	Methylene chloride	ND	1.5	ND	0.43	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.48	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.37	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.37	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.42	
78-93-3	2-Butanone (MEK)	**2.9**	1.5	**0.98**	0.50	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.37	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**12**	1.5	**3.6**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-61-S-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00660

Date Collected: 12/20/06
Date Received: 12/22/06
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.4 Pf 1 = 3.5

Can D.F. = 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**21**	1.5	**5.5**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	**11**	1.5	**1.6**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**5.3**	1.5	**1.2**	0.34	
179601-23-1	*m,p*-Xylenes	**26**	1.5	**5.9**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	**2.2**	1.5	**0.52**	0.35	
95-47-6	o-Xylene	**8.7**	1.5	**2.0**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-61-I-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-002

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00891

Date Collected: 12/20/06
Date Received: 12/22/06
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.5

Can D.F. = 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.73	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.59	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.57	
67-64-1	Acetone	**33**	7.5	**14**	3.2	
75-69-4	Trichlorofluoromethane	**2.8**	1.5	**0.51**	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.38	
75-09-2	Methylene chloride	ND	1.5	ND	0.43	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	**2.1**	1.5	**0.66**	0.48	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.38	
75-34-3	1,1-Dichloroethane	**25**	1.5	**6.3**	0.37	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	**2.0**	1.5	**0.69**	0.51	
156-59-2	cis-1,2-Dichloroethene	**5.1**	1.5	**1.3**	0.38	
67-66-3	Chloroform	**5.4**	1.5	**1.1**	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.37	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**6.3**	1.5	**2.0**	0.47	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	**7.2**	1.5	**1.6**	0.32	

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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-61-I-12-20-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-002

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00891

Date Collected: 12/20/06
Date Received: 12/22/06
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.5

Can D.F. = 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	**2.7**	1.5	**0.50**	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**13**	1.5	**3.3**	0.40	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	**26**	1.5	**3.8**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**4.7**	1.5	**1.1**	0.35	
179601-23-1	*m,p*-Xylenes	**23**	1.5	**5.4**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	**2.2**	1.5	**0.51**	0.35	
95-47-6	o-Xylene	**8.5**	1.5	**2.0**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: µ/ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-61-D-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-003

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00380

Date Collected: 12/20/06
Date Received: 12/22/06
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.59	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	ND	7.6	ND	3.2	
75-69-4	Trichlorofluoromethane	**2.1**	1.5	**0.37**	0.27	J
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.38	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	**1.5**	1.5	**0.50**	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.38	
75-34-3	1,1-Dichloroethane	**29**	1.5	**7.1**	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	ND	1.5	ND	0.52	
156-59-2	cis-1,2-Dichloroethene	**3.2**	1.5	**0.80**	0.38	
67-66-3	Chloroform	**4.5**	1.5	**0.91**	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**9.8**	1.5	**3.1**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	**3.0**	1.5	**0.64**	0.33	

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

Verified By: MS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-61-D-12-20-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-003

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00380

Date Collected: 12/20/06
Date Received: 12/22/06
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.23	
79-01-6	Trichloroethene	**4.6**	1.5	**0.86**	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**16**	1.5	**4.3**	0.40	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	**40**	1.5	**5.9**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**4.9**	1.5	**1.1**	0.35	
179601-23-1	*m,p*-Xylenes	**24**	1.5	**5.5**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	**2.1**	1.5	**0.49**	0.36	
95-47-6	o-Xylene	**8.2**	1.5	**1.9**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-51-S-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-004

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: SC00124

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.5

Can D.F. = 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.71	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.58	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.56	
67-64-1	Acetone	**16**	7.4	**6.6**	3.1	**M**
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.26	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.37	
75-09-2	Methylene chloride	ND	1.5	ND	0.42	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	**3.5**	1.5	**1.1**	0.47	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.37	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.36	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.42	
78-93-3	2-Butanone (MEK)	**5.4**	1.5	**1.8**	0.50	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.36	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**8.9**	1.5	**2.8**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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.

Verified By: µ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-51-S-12-21-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-004

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: SC00124

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.5

Can D.F. = 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.32	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.32	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**23**	1.5	**6.0**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	**12**	1.5	**1.7**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**4.2**	1.5	**0.97**	0.34	
179601-23-1	*m,p* -Xylenes	**11**	1.5	**2.6**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.35	
95-47-6	o-Xylene	**3.8**	1.5	**0.88**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.24	

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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-51-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-005

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00331

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.2 Pf 1 = 3.5

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.71	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.57	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.55	
67-64-1	Acetone	**110**	7.3	**48**	3.1	**M**
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.26	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.37	
75-09-2	Methylene chloride	**1.9**	1.5	**0.55**	0.42	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.47	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.37	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.36	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.41	
78-93-3	2-Butanone (MEK)	**5.8**	1.5	**2.0**	0.50	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.36	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**9.8**	1.5	**3.1**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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.

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-51-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-005

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00331

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.2 Pf 1 = 3.5

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.32	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.32	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**16**	1.5	**4.2**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	**16**	1.5	**2.3**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**4.4**	1.5	**1.0**	0.34	
179601-23-1	*m,p*-Xylenes	**21**	1.5	**4.9**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.34	
95-47-6	o-Xylene	**9.2**	1.5	**2.1**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.24	

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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-51-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-005DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00331

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.2 Pf 1 = 3.5

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.71	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.57	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.55	
67-64-1	Acetone	**120**	7.3	**49**	3.1	**M**
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.26	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.37	
75-09-2	Methylene chloride	**1.8**	1.5	**0.53**	0.42	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.47	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.37	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.36	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.41	
78-93-3	2-Butanone (MEK)	**6.2**	1.5	**2.1**	0.50	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.36	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**10**	1.5	**3.1**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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.

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-51-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-005DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00331

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.2 Pf 1 = 3.5

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.32	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.32	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**16**	1.5	**4.3**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	**16**	1.5	**2.3**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**4.5**	1.5	**1.0**	0.34	
179601-23-1	*m,p*-Xylenes	**21**	1.5	**4.9**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.34	
95-47-6	o-Xylene	**9.2**	1.5	**2.1**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.24	

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: MS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-51-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-006

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: SC00157

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 0.014 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	110	ND	53	
75-01-4	Vinyl Chloride	ND	110	ND	42	
74-83-9	Bromomethane	ND	110	ND	28	
75-00-3	Chloroethane	ND	110	ND	41	
67-64-1	Acetone	ND	540	ND	230	
75-69-4	Trichlorofluoromethane	ND	110	ND	19	
75-35-4	1,1-Dichloroethene	ND	110	ND	27	
75-09-2	Methylene chloride	ND	110	ND	31	
76-13-1	Trichlorotrifluoroethane	ND	110	ND	14	
75-15-0	Carbon Disulfide	ND	110	ND	35	
156-60-5	trans-1,2-Dichloroethene	**200**	110	**50**	27	
75-34-3	1,1-Dichloroethane	ND	110	ND	27	
1634-04-4	Methyl tert-Butyl Ether	ND	110	ND	30	
108-05-4	Vinyl Acetate	ND	110	ND	31	
78-93-3	2-Butanone (MEK)	ND	110	ND	37	
156-59-2	cis-1,2-Dichloroethene	**380**	110	**95**	27	
67-66-3	Chloroform	ND	110	ND	22	
107-06-2	1,2-Dichloroethane	**130**	110	**32**	27	
71-55-6	1,1,1-Trichloroethane	ND	110	ND	20	
71-43-2	Benzene	**200**	110	**62**	34	
56-23-5	Carbon Tetrachloride	ND	110	ND	17	
78-87-5	1,2-Dichloropropane	ND	110	ND	24	

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: µ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-51-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-006

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: SC00157

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 0.014 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	110	ND	16	
79-01-6	Trichloroethene	**810**	110	**150**	20	
10061-01-5	cis-1,3-Dichloropropene	ND	110	ND	24	
108-10-1	4-Methyl-2-pentanone	ND	110	ND	27	
10061-02-6	trans-1,3-Dichloropropene	ND	110	ND	24	
79-00-5	1,1,2-Trichloroethane	ND	110	ND	20	
108-88-3	Toluene	ND	110	ND	29	
591-78-6	2-Hexanone	ND	110	ND	27	
124-48-1	Dibromochloromethane	ND	110	ND	13	
106-93-4	1,2-Dibromoethane	ND	110	ND	14	
127-18-4	Tetrachloroethene	ND	110	ND	16	
108-90-7	Chlorobenzene	ND	110	ND	24	
100-41-4	Ethylbenzene	ND	110	ND	25	
179601-23-1	*m,p*-Xylenes	ND	110	ND	25	
75-25-2	Bromoform	ND	110	ND	11	
100-42-5	Styrene	ND	110	ND	26	
95-47-6	o-Xylene	ND	110	ND	25	
79-34-5	1,1,2,2-Tetrachloroethane	ND	110	ND	16	
541-73-1	1,3-Dichlorobenzene	ND	110	ND	18	
106-46-7	1,4-Dichlorobenzene	ND	110	ND	18	
95-50-1	1,2-Dichlorobenzene	ND	110	ND	18	

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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-51-D-12-21-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-006DUP

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: SC00157

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 0.014 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	110	ND	53	
75-01-4	Vinyl Chloride	ND	110	ND	42	
74-83-9	Bromomethane	ND	110	ND	28	
75-00-3	Chloroethane	ND	110	ND	41	
67-64-1	Acetone	ND	540	ND	230	
75-69-4	Trichlorofluoromethane	ND	110	ND	19	
75-35-4	1,1-Dichloroethene	ND	110	ND	27	
75-09-2	Methylene chloride	ND	110	ND	31	
76-13-1	Trichlorotrifluoroethane	ND	110	ND	14	
75-15-0	Carbon Disulfide	ND	110	ND	35	
156-60-5	trans-1,2-Dichloroethene	**210**	110	**53**	27	
75-34-3	1,1-Dichloroethane	ND	110	ND	27	
1634-04-4	Methyl tert-Butyl Ether	ND	110	ND	30	
108-05-4	Vinyl Acetate	ND	110	ND	31	
78-93-3	2-Butanone (MEK)	ND	110	ND	37	
156-59-2	cis-1,2-Dichloroethene	**390**	110	**98**	27	
67-66-3	Chloroform	ND	110	ND	22	
107-06-2	1,2-Dichloroethane	**130**	110	**32**	27	
71-55-6	1,1,1-Trichloroethane	ND	110	ND	20	
71-43-2	Benzene	**200**	110	**61**	34	
56-23-5	Carbon Tetrachloride	ND	110	ND	17	
78-87-5	1,2-Dichloropropane	ND	110	ND	24	

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: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-51-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-006DUP

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: SC00157

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 0.014 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	110	ND	16	
79-01-6	Trichloroethene	**830**	110	**150**	20	
10061-01-5	cis-1,3-Dichloropropene	ND	110	ND	24	
108-10-1	4-Methyl-2-pentanone	ND	110	ND	27	
10061-02-6	trans-1,3-Dichloropropene	ND	110	ND	24	
79-00-5	1,1,2-Trichloroethane	ND	110	ND	20	
108-88-3	Toluene	ND	110	ND	29	
591-78-6	2-Hexanone	ND	110	ND	27	
124-48-1	Dibromochloromethane	ND	110	ND	13	
106-93-4	1,2-Dibromoethane	ND	110	ND	14	
127-18-4	Tetrachloroethene	ND	110	ND	16	
108-90-7	Chlorobenzene	ND	110	ND	24	
100-41-4	Ethylbenzene	ND	110	ND	25	
179601-23-1	*m,p*-Xylenes	ND	110	ND	25	
75-25-2	Bromoform	ND	110	ND	11	
100-42-5	Styrene	ND	110	ND	26	
95-47-6	o-Xylene	ND	110	ND	25	
79-34-5	1,1,2,2-Tetrachloroethane	ND	110	ND	16	
541-73-1	1,3-Dichlorobenzene	ND	110	ND	18	
106-46-7	1,4-Dichlorobenzene	ND	110	ND	18	
95-50-1	1,2-Dichlorobenzene	ND	110	ND	18	

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: µ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-30-S-12-21-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-007

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: SC00856

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.7

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.60	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**13**	7.7	**5.3**	3.2	
75-69-4	Trichlorofluoromethane	**14**	1.5	**2.5**	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.39	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	**1.6**	1.5	**0.50**	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.39	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	**2.3**	1.5	**0.65**	0.43	**M**
78-93-3	2-Butanone (MEK)	**1.9**	1.5	**0.66**	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.39	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**7.3**	1.5	**2.3**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: MW Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-30-S-12-21-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-007

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: SC00856

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.7

Can D.F. = 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.23	
79-01-6	Trichloroethene	**2.0**	1.5	**0.38**	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.34	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.34	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**13**	1.5	**3.3**	0.41	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	**130**	1.5	**19**	0.23	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**4.9**	1.5	**1.1**	0.35	
179601-23-1	*m,p*-Xylenes	**26**	1.5	**5.9**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	**9.8**	1.5	**2.3**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: LJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-30-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-008

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: SC00443

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07 & 1/5/07
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Pi 1 = -2.1 Pf 1 = 3.5

Can D.F. = 1.44

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.4	ND	0.70	
75-01-4	Vinyl Chloride	ND	1.4	ND	0.56	
74-83-9	Bromomethane	ND	1.4	ND	0.37	
75-00-3	Chloroethane	ND	1.4	ND	0.55	
67-64-1	Acetone	**15**	7.2	**6.2**	3.0	
75-69-4	Trichlorofluoromethane	**6.6**	1.4	**1.2**	0.26	
75-35-4	1,1-Dichloroethene	ND	1.4	ND	0.36	
75-09-2	Methylene chloride	ND	1.4	ND	0.41	
76-13-1	Trichlorotrifluoroethane	ND	1.4	ND	0.19	
75-15-0	Carbon Disulfide	**4.5**	1.4	**1.5**	0.46	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.36	
75-34-3	1,1-Dichloroethane	ND	1.4	ND	0.36	
1634-04-4	Methyl tert-Butyl Ether	ND	1.4	ND	0.40	
108-05-4	Vinyl Acetate	ND	1.4	ND	0.41	
78-93-3	2-Butanone (MEK)	**9.7**	1.4	**3.3**	0.49	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	ND	0.36	
67-66-3	Chloroform	ND	1.4	ND	0.29	
107-06-2	1,2-Dichloroethane	ND	1.4	ND	0.36	
71-55-6	1,1,1-Trichloroethane	ND	1.4	ND	0.26	
71-43-2	Benzene	**6.1**	1.4	**1.9**	0.45	
56-23-5	Carbon Tetrachloride	ND	1.4	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.4	ND	0.31	

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: MW Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-30-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-008

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: SC00443

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07 & 1/5/07
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Pi 1 = -2.1 Pf 1 = 3.5

Can D.F. = 1.44

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.4	ND	0.22	
79-01-6	Trichloroethene	**3.9**	1.4	**0.72**	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	ND	0.32	
108-10-1	4-Methyl-2-pentanone	**2.0**	1.4	**0.49**	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	ND	0.32	
79-00-5	1,1,2-Trichloroethane	ND	1.4	ND	0.26	
108-88-3	Toluene	**33**	1.4	**8.8**	0.38	
591-78-6	2-Hexanone	ND	1.4	ND	0.35	
124-48-1	Dibromochloromethane	ND	1.4	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.4	ND	0.19	
127-18-4	Tetrachloroethene	**200**	1.4	**29**	0.21	**H**
108-90-7	Chlorobenzene	ND	1.4	ND	0.31	
100-41-4	Ethylbenzene	**16**	1.4	**3.6**	0.33	
179601-23-1	*m,p*-Xylenes	**84**	1.4	**19**	0.33	
75-25-2	Bromoform	ND	1.4	ND	0.14	
100-42-5	Styrene	ND	1.4	ND	0.34	
95-47-6	o-Xylene	**34**	1.4	**7.9**	0.33	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.4	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.4	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.4	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.4	ND	0.24	

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.
H = Sample analyzed outside of client's 14 day hold time.

Verified By: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-30-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-009

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: SC00368

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.0 Pf 1 = 3.6

Can D.F. = 1.44

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.4	ND	0.70	
75-01-4	Vinyl Chloride	ND	1.4	ND	0.56	
74-83-9	Bromomethane	ND	1.4	ND	0.37	
75-00-3	Chloroethane	ND	1.4	ND	0.55	
67-64-1	Acetone	**12**	7.2	**5.2**	3.0	
75-69-4	Trichlorofluoromethane	**4.4**	1.4	**0.78**	0.26	
75-35-4	1,1-Dichloroethene	ND	1.4	ND	0.36	
75-09-2	Methylene chloride	**9.1**	1.4	**2.6**	0.41	
76-13-1	Trichlorotrifluoroethane	**1.6**	1.4	**0.21**	0.19	
75-15-0	Carbon Disulfide	**3.0**	1.4	**0.96**	0.46	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.36	
75-34-3	1,1-Dichloroethane	ND	1.4	ND	0.36	
1634-04-4	Methyl tert-Butyl Ether	ND	1.4	ND	0.40	
108-05-4	Vinyl Acetate	ND	1.4	ND	0.41	
78-93-3	2-Butanone (MEK)	**4.1**	1.4	**1.4**	0.49	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	ND	0.36	
67-66-3	Chloroform	ND	1.4	ND	0.29	
107-06-2	1,2-Dichloroethane	ND	1.4	ND	0.36	
71-55-6	1,1,1-Trichloroethane	ND	1.4	ND	0.26	
71-43-2	Benzene	**8.5**	1.4	**2.7**	0.45	
56-23-5	Carbon Tetrachloride	ND	1.4	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.4	ND	0.31	

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: µJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-30-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-009

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: SC00368

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.0 Pf 1 = 3.6

Can D.F. = 1.44

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.4	ND	0.22	
79-01-6	Trichloroethene	**2.7**	1.4	**0.50**	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	ND	0.32	
108-10-1	4-Methyl-2-pentanone	ND	1.4	ND	0.35	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	ND	0.32	
79-00-5	1,1,2-Trichloroethane	ND	1.4	ND	0.26	
108-88-3	Toluene	**21**	1.4	**5.7**	0.38	
591-78-6	2-Hexanone	ND	1.4	ND	0.35	
124-48-1	Dibromochloromethane	ND	1.4	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.4	ND	0.19	
127-18-4	Tetrachloroethene	**140**	1.4	**20**	0.21	
108-90-7	Chlorobenzene	ND	1.4	ND	0.31	
100-41-4	Ethylbenzene	**7.9**	1.4	**1.8**	0.33	
179601-23-1	*m,p*-Xylenes	**41**	1.4	**9.4**	0.33	
75-25-2	Bromoform	ND	1.4	ND	0.14	
100-42-5	Styrene	ND	1.4	ND	0.34	
95-47-6	o-Xylene	**16**	1.4	**3.6**	0.33	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.4	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.4	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.4	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.4	ND	0.24	

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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-62-S-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-010

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: SC00310

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -2.0 Pf 1 = 3.5

Can D.F. = 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	14	ND	6.9	
75-01-4	Vinyl Chloride	ND	14	ND	5.6	
74-83-9	Bromomethane	ND	14	ND	3.7	
75-00-3	Chloroethane	ND	14	ND	5.4	
67-64-1	Acetone	ND	72	ND	30	
75-69-4	Trichlorofluoromethane	ND	14	ND	2.5	
75-35-4	1,1-Dichloroethene	ND	14	ND	3.6	
75-09-2	Methylene chloride	ND	14	ND	4.1	
76-13-1	Trichlorotrifluoroethane	ND	14	ND	1.9	
75-15-0	Carbon Disulfide	ND	14	ND	4.6	
156-60-5	trans-1,2-Dichloroethene	ND	14	ND	3.6	
75-34-3	1,1-Dichloroethane	ND	14	ND	3.5	
1634-04-4	Methyl tert-Butyl Ether	ND	14	ND	4.0	
108-05-4	Vinyl Acetate	ND	14	ND	4.1	
78-93-3	2-Butanone (MEK)	ND	14	ND	4.9	
156-59-2	cis-1,2-Dichloroethene	ND	14	ND	3.6	
67-66-3	Chloroform	ND	14	ND	2.9	
107-06-2	1,2-Dichloroethane	ND	14	ND	3.5	
71-55-6	1,1,1-Trichloroethane	ND	14	ND	2.6	
71-43-2	Benzene	ND	14	ND	4.5	
56-23-5	Carbon Tetrachloride	ND	14	ND	2.3	
78-87-5	1,2-Dichloropropane	ND	14	ND	3.1	

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: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-62-S-12-21-06
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-010

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: SC00310

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 0.10 Liter(s)

Pi 1 = -2.0 Pf 1 = 3.5

Can D.F. = 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	14	ND	2.1	
79-01-6	Trichloroethene	ND	14	ND	2.7	
10061-01-5	cis-1,3-Dichloropropene	ND	14	ND	3.2	
108-10-1	4-Methyl-2-pentanone	ND	14	ND	3.5	
10061-02-6	trans-1,3-Dichloropropene	ND	14	ND	3.2	
79-00-5	1,1,2-Trichloroethane	ND	14	ND	2.6	
108-88-3	Toluene	ND	14	ND	3.8	
591-78-6	2-Hexanone	ND	14	ND	3.5	
124-48-1	Dibromochloromethane	ND	14	ND	1.7	
106-93-4	1,2-Dibromoethane	ND	14	ND	1.9	
127-18-4	Tetrachloroethene	ND	14	ND	2.1	
108-90-7	Chlorobenzene	**32**	14	**7.0**	3.1	**M**
100-41-4	Ethylbenzene	ND	14	ND	3.3	
179601-23-1	*m,p* -Xylenes	**16**	14	**3.7**	3.3	
75-25-2	Bromoform	ND	14	ND	1.4	
100-42-5	Styrene	ND	14	ND	3.4	
95-47-6	o-Xylene	ND	14	ND	3.3	
79-34-5	1,1,2,2-Tetrachloroethane	ND	14	ND	2.1	
541-73-1	1,3-Dichlorobenzene	ND	14	ND	2.4	
106-46-7	1,4-Dichlorobenzene	ND	14	ND	2.4	
95-50-1	1,2-Dichlorobenzene	ND	14	ND	2.4	

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

Verified By: µ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-62-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-011

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00277

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.5

Can D.F. = 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.71	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.58	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.56	
67-64-1	Acetone	ND	7.4	ND	3.1	
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.26	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.37	
75-09-2	Methylene chloride	ND	1.5	ND	0.42	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	**1.8**	1.5	**0.59**	0.47	
156-60-5	trans-1,2-Dichloroethene	**1.8**	1.5	**0.45**	0.37	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.36	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.42	
78-93-3	2-Butanone (MEK)	**1.5**	1.5	**0.52**	0.50	
156-59-2	cis-1,2-Dichloroethene	**6.6**	1.5	**1.7**	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.36	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**13**	1.5	**4.2**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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: MV Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-62-I-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-011

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00277

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.5

Can D.F. = 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	**31**	1.5	**5.9**	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.32	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.32	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**9.5**	1.5	**2.5**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	**21**	1.5	**3.1**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**7.8**	1.5	**1.8**	0.34	
179601-23-1	*m,p*-Xylenes	**44**	1.5	**10**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.35	
95-47-6	o-Xylene	**12**	1.5	**2.8**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.24	

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: MS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-62-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-012

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00764

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.2 Pf 1 = 3.5

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.71	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.57	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.55	
67-64-1	Acetone	ND	7.3	ND	3.1	
75-69-4	Trichlorofluoromethane	**3.6**	1.5	**0.64**	0.26	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.37	
75-09-2	Methylene chloride	ND	1.5	ND	0.42	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.47	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.37	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.36	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.41	
78-93-3	2-Butanone (MEK)	ND	1.5	ND	0.50	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.36	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**10**	1.5	**3.2**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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: µ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-62-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-012

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00764

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.2 Pf 1 = 3.5

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.32	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.32	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**9.1**	1.5	**2.4**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	**21**	1.5	**3.1**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**4.2**	1.5	**0.96**	0.34	
179601-23-1	*m,p*-Xylenes	**22**	1.5	**5.0**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.34	
95-47-6	o-Xylene	**8.4**	1.5	**1.9**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.24	

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: µs Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-62-12-21-06 Ambient
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-013

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00629

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 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	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.60	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**21**	7.7	**8.7**	3.2	**M**
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.39	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.39	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	**4.4**	1.5	**1.5**	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.39	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**1.8**	1.5	**0.55**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-62-12-21-06 Ambient**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-013

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00629

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 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	1.5	ND	0.23	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.34	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.34	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**6.0**	1.5	**1.6**	0.41	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	ND	1.5	ND	0.23	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	ND	1.5	ND	0.35	
179601-23-1	*m,p*-Xylenes	**4.1**	1.5	**0.95**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	ND	1.5	ND	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: MS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-62-12-21-06 Ambient**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-013DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00629

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 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	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.60	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**19**	7.7	**8.1**	3.2	**M**
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.39	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.39	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	**4.0**	1.5	**1.4**	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.39	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**1.7**	1.5	**0.52**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-62-12-21-06 Ambient**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-013DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00629

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 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	1.5	ND	0.23	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.34	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.34	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**5.7**	1.5	**1.5**	0.41	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	ND	1.5	ND	0.23	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	ND	1.5	ND	0.35	
179601-23-1	*m,p*-Xylenes	**3.9**	1.5	**0.90**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	ND	1.5	ND	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-36-S-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-014

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00075

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.9 Pf 1 = 3.5

Can D.F. = 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.75	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.60	
74-83-9	Bromomethane	ND	1.5	ND	0.40	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	**16**	7.7	**6.6**	3.2	
75-69-4	Trichlorofluoromethane	**1.9**	1.5	**0.35**	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.39	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.39	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.43	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.44	
78-93-3	2-Butanone (MEK)	**2.5**	1.5	**0.84**	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.39	
67-66-3	Chloroform	ND	1.5	ND	0.32	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**16**	1.5	**5.1**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-36-S-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-014

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00075

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.9 Pf 1 = 3.5

Can D.F. = 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.23	
79-01-6	Trichloroethene	ND	1.5	ND	0.29	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.34	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.38	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.34	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**14**	1.5	**3.7**	0.41	
591-78-6	2-Hexanone	ND	1.5	ND	0.38	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	**13**	1.5	**1.9**	0.23	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**3.3**	1.5	**0.76**	0.35	
179601-23-1	*m,p*-Xylenes	**16**	1.5	**3.8**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.36	
95-47-6	o-Xylene	**6.1**	1.5	**1.4**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.26	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.26	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.26	

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: µ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-36-D-12-21-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-015

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00327

Date Collected: 12/21/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.7 Pf 1 = 3.5

Can D.F. = 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.74	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.59	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.58	
67-64-1	Acetone	ND	7.6	ND	3.2	
75-69-4	Trichlorofluoromethane	**6.6**	1.5	**1.2**	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.38	
75-09-2	Methylene chloride	ND	1.5	ND	0.44	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.38	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.38	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.43	
78-93-3	2-Butanone (MEK)	ND	1.5	ND	0.52	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.38	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.38	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**12**	1.5	**3.7**	0.48	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.33	

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

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-42-S-12-22-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-016

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00403

Date Collected: 12/22/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.2 Pf 1 = 3.5

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.71	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.57	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.55	
67-64-1	Acetone	**8.6**	7.3	**3.6**	3.1	**M**
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.26	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.37	
75-09-2	Methylene chloride	ND	1.5	ND	0.42	
76-13-1	Trichlorotrifluoroethane	**1.9**	1.5	**0.24**	0.19	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.47	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.37	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.36	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	ND	1.5	ND	0.41	
78-93-3	2-Butanone (MEK)	**1.9**	1.5	**0.65**	0.50	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.36	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**12**	1.5	**3.8**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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.

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-42-S-12-22-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-016

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00403

Date Collected: 12/22/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.2 Pf 1 = 3.5

Can D.F. = 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	**2.1**	1.5	**0.39**	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.32	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.32	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**6.7**	1.5	**1.8**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	**15**	1.5	**2.2**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**2.2**	1.5	**0.51**	0.34	
179601-23-1	*m,p*-Xylenes	**12**	1.5	**2.7**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.34	
95-47-6	o-Xylene	**3.9**	1.5	**0.90**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.24	

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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-42-D-12-22-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-017

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00351

Date Collected: 12/22/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.4 Pf 1 = 3.5

Can D.F. = 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.72	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.58	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.56	
67-64-1	Acetone	**21**	7.4	**8.8**	3.1	**M**
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.26	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.37	
75-09-2	Methylene chloride	ND	1.5	ND	0.43	
76-13-1	Trichlorotrifluoroethane	**6.2**	1.5	**0.80**	0.19	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.48	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.37	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.37	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	**5.5**	1.5	**1.6**	0.42	
78-93-3	2-Butanone (MEK)	**4.6**	1.5	**1.5**	0.50	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.37	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**12**	1.5	**3.7**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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.

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-42-D-12-22-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-017

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00351

Date Collected: 12/22/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.4 Pf 1 = 3.5

Can D.F. = 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**8.6**	1.5	**2.3**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	**21**	1.5	**3.1**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	**2.1**	1.5	**0.49**	0.34	
179601-23-1	*m,p*-Xylenes	**11**	1.5	**2.4**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.35	
95-47-6	o-Xylene	**3.7**	1.5	**0.85**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: W Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-42-12-22-06 Ambient**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-018

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00078

Date Collected: 12/22/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.5

Can D.F. = 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.73	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.59	
74-83-9	Bromomethane	ND	1.5	ND	0.39	
75-00-3	Chloroethane	ND	1.5	ND	0.57	
67-64-1	Acetone	**37**	7.5	**15**	3.2	
75-69-4	Trichlorofluoromethane	ND	1.5	ND	0.27	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.38	
75-09-2	Methylene chloride	**4.1**	1.5	**1.2**	0.43	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.20	
75-15-0	Carbon Disulfide	**2.2**	1.5	**0.72**	0.48	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.38	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.37	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.42	
108-05-4	Vinyl Acetate	**10**	1.5	**2.9**	0.43	
78-93-3	2-Butanone (MEK)	**11**	1.5	**3.9**	0.51	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.38	
67-66-3	Chloroform	ND	1.5	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.37	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.28	
71-43-2	Benzene	**4.4**	1.5	**1.4**	0.47	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-42-12-22-06 Ambient**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-018

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00078

Date Collected: 12/22/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.5

Can D.F. = 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.28	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.33	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.37	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.33	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.28	
108-88-3	Toluene	**19**	1.5	**5.0**	0.40	
591-78-6	2-Hexanone	ND	1.5	ND	0.37	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.18	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.20	
127-18-4	Tetrachloroethene	**1.6**	1.5	**0.23**	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.33	
100-41-4	Ethylbenzene	**3.1**	1.5	**0.71**	0.35	
179601-23-1	*m,p*-Xylenes	**14**	1.5	**3.2**	0.35	
75-25-2	Bromoform	ND	1.5	ND	0.15	
100-42-5	Styrene	ND	1.5	ND	0.35	
95-47-6	o-Xylene	**4.7**	1.5	**1.1**	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.22	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.25	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.25	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.25	

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

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-25-12-22-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-019

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: SC00711

Date Collected: 12/22/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 0.050 Liter(s)

Pi 1 = -2.4 Pf 1 = 3.5

Can D.F. = 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	30	ND	14	
75-01-4	Vinyl Chloride	ND	30	ND	12	
74-83-9	Bromomethane	ND	30	ND	7.6	
75-00-3	Chloroethane	ND	30	ND	11	
67-64-1	Acetone	ND	150	ND	62	
75-69-4	Trichlorofluoromethane	ND	30	ND	5.3	
75-35-4	1,1-Dichloroethene	ND	30	ND	7.5	
75-09-2	Methylene chloride	ND	30	ND	8.5	
76-13-1	Trichlorotrifluoroethane	ND	30	ND	3.9	
75-15-0	Carbon Disulfide	ND	30	ND	9.5	
156-60-5	trans-1,2-Dichloroethene	ND	30	ND	7.5	
75-34-3	1,1-Dichloroethane	ND	30	ND	7.3	
1634-04-4	Methyl tert-Butyl Ether	ND	30	ND	8.2	
108-05-4	Vinyl Acetate	ND	30	ND	8.4	
78-93-3	2-Butanone (MEK)	ND	30	ND	10	
156-59-2	cis-1,2-Dichloroethene	ND	30	ND	7.5	
67-66-3	Chloroform	ND	30	ND	6.1	
107-06-2	1,2-Dichloroethane	ND	30	ND	7.3	
71-55-6	1,1,1-Trichloroethane	ND	30	ND	5.4	
71-43-2	Benzene	ND	30	ND	9.3	
56-23-5	Carbon Tetrachloride	ND	30	ND	4.7	
78-87-5	1,2-Dichloropropane	ND	30	ND	6.4	

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

Verified By: w Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-25-12-22-06**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-019

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: SC00711

Date Collected: 12/22/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 0.050 Liter(s)

Pi 1 = -2.4 Pf 1 = 3.5

Can D.F. = 1.48

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	30	ND	4.4	
79-01-6	Trichloroethene	ND	30	ND	5.5	
10061-01-5	cis-1,3-Dichloropropene	ND	30	ND	6.5	
108-10-1	4-Methyl-2-pentanone	ND	30	ND	7.2	
10061-02-6	trans-1,3-Dichloropropene	ND	30	ND	6.5	
79-00-5	1,1,2-Trichloroethane	ND	30	ND	5.4	
108-88-3	Toluene	ND	30	ND	7.9	
591-78-6	2-Hexanone	ND	30	ND	7.2	
124-48-1	Dibromochloromethane	ND	30	ND	3.5	
106-93-4	1,2-Dibromoethane	ND	30	ND	3.9	
127-18-4	Tetrachloroethene	ND	30	ND	4.4	
108-90-7	Chlorobenzene	ND	30	ND	6.4	
100-41-4	Ethylbenzene	ND	30	ND	6.8	
179601-23-1	*m,p*-Xylenes	ND	30	ND	6.8	
75-25-2	Bromoform	ND	30	ND	2.9	
100-42-5	Styrene	ND	30	ND	7.0	
95-47-6	o-Xylene	ND	30	ND	6.8	
79-34-5	1,1,2,2-Tetrachloroethane	ND	30	ND	4.3	
541-73-1	1,3-Dichlorobenzene	ND	30	ND	4.9	
106-46-7	1,4-Dichlorobenzene	ND	30	ND	4.9	
95-50-1	1,2-Dichlorobenzene	ND	30	ND	4.9	

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: µ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-Trip Blank -01**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-020

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes: **RH**
Container ID: AC00651

Date Collected: 12/6/06
Date Received: 12/22/06
Date(s) Analyzed: 1/5/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.
RH = Sample received outside of client's 14 day hold time.

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-Trip Blank -01
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-020

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes: **RH**
Container ID: AC00651

Date Collected: 12/6/06
Date Received: 12/22/06
Date(s) Analyzed: 1/5/07
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.
RH = Sample received outside of client's 14 day hold time.

Verified By: MV Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-Trip Blank -02**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-021

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes: **RH**
Container ID: AC01048

Date Collected: 12/6/06
Date Received: 12/22/06
Date(s) Analyzed: 1/5/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.
RH = Sample received outside of client's 14 day hold time.

Verified By: MS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-Trip Blank -02**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-021

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes: **RH**
Container ID: AC01048

Date Collected: 12/6/06
Date Received: 12/22/06
Date(s) Analyzed: 1/5/07
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.
RH = Sample received outside of client's 14 day hold time.

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Sample ID: WDI-VW-Trip Blank -03
Client Project ID: WDI

CAS Project ID: P2603530
CAS Sample ID: P2603530-022

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: AC01253

Date Collected: 12/22/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-VW-Trip Blank -03**
Client Project ID: **WDI**

CAS Project ID: P2603530
CAS Sample ID: P2603530-022

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: AC01253

Date Collected: 12/22/06
Date Received: 12/22/06
Date(s) Analyzed: 1/3/07
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: µ Date: 1/10/07

7. SDG P2700092

Included for completeness only.
No samples were reviewed in SDG.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-03-1-6-07**
Client Project ID: **WDI**

CAS Project ID: P2700092
CAS Sample ID: P2700092-001

Test Code: EPA Method 3C Modified
Instrument ID: HP5890II/GC1/TCD
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00804

Date Collected: 1/6/07
Date Received: 1/12/07
Date Analyzed: 1/17/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -4.9 Pf 1 = 3.7

D.F. = 1.88

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.19	
7782-44-7 7440-37-1	Oxygen + Argon *	**22.2**	0.19	
7727-37-9	Nitrogen	**77.8**	0.19	
630-08-0	Carbon Monoxide	ND	0.19	
124-38-9	Carbon Dioxide	ND	0.19	

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: ws Date: 1/26/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client : **TRC**
Client Sample ID: **WDI-IBM-03-1-6-07**
Client Project ID: **WDI**

CAS Project ID: P2700092
CAS Sample ID: P2700092-001DUP

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

Date Collected: 1/6/07
Date Received: 1/12/07
Date Analyzed: 1/17/07
Volume(s) Analyzed: 0.10 ml

Pi 1 = -4.9 Pf 1 = 3.7
D.F. = 1.88

CAS #	Compound	Result (%, v/v)	MRL (%, v/v)	Data Qualifier
1333-74-0	Hydrogen	ND	0.19	
7782-44-7 7440-37-1	Oxygen + Argon *	**22.2**	0.19	
7727-37-9	Nitrogen	**77.7**	0.19	
630-08-0	Carbon Monoxide	ND	0.19	
124-38-9	Carbon Dioxide	ND	0.19	

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: MV Date: 1/26/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03-1-6-07**
Client Project ID: **WDI**

CAS Project ID: P2700092
CAS Sample ID: P2700092-001

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00804

Date Collected: 1/6/07
Date Received: 1/12/07
Date Analyzed: 1/17/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -4.9 Pf 1 = 3.7
D.F. = 1.88

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.8**	0.94	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.9	

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: MJ Date: 1/26/07

00092SVG.RE2 -Sample

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03-1-6-07**
Client Project ID: **WDI**

CAS Project ID: P2700092
CAS Sample ID: P2700092-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chaney Humphrey
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00804

Date Collected: 1/6/07
Date Received: 1/12/07
Date(s) Analyzed: 1/19/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.9 Pf 1 = 3.7

Can D.F. = 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.9	ND	0.91	
75-01-4	Vinyl Chloride	ND	1.9	ND	0.74	
74-83-9	Bromomethane	ND	1.9	ND	0.48	
75-00-3	Chloroethane	ND	1.9	ND	0.71	
67-64-1	Acetone	**120**	9.4	**51**	4.0	
75-69-4	Trichlorofluoromethane	ND	1.9	ND	0.33	
75-35-4	1,1-Dichloroethene	ND	1.9	ND	0.47	
75-09-2	Methylene chloride	**25**	1.9	**7.1**	0.54	
76-13-1	Trichlorotrifluoroethane	ND	1.9	ND	0.25	
75-15-0	Carbon Disulfide	ND	1.9	ND	0.60	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	ND	0.47	
75-34-3	1,1-Dichloroethane	ND	1.9	ND	0.46	
1634-04-4	Methyl tert-Butyl Ether	**4.5**	1.9	**1.2**	0.52	
108-05-4	Vinyl Acetate	ND	1.9	ND	0.53	
78-93-3	2-Butanone (MEK)	**8.3**	1.9	**2.8**	0.64	
156-59-2	cis-1,2-Dichloroethene	ND	1.9	ND	0.47	
67-66-3	Chloroform	ND	1.9	ND	0.39	
107-06-2	1,2-Dichloroethane	ND	1.9	ND	0.46	
71-55-6	1,1,1-Trichloroethane	ND	1.9	ND	0.34	
71-43-2	Benzene	**4.9**	1.9	**1.5**	0.59	
56-23-5	Carbon Tetrachloride	ND	1.9	ND	0.30	
78-87-5	1,2-Dichloropropane	ND	1.9	ND	0.41	

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: RS Date: 1/26/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03-1-6-07**
Client Project ID: **WDI**

CAS Project ID: P2700092
CAS Sample ID: P2700092-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chaney Humphrey
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00804

Date Collected: 1/6/07
Date Received: 1/12/07
Date(s) Analyzed: 1/19/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.9 Pf 1 = 3.7

Can D.F. = 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.9	ND	0.28	
79-01-6	Trichloroethene	ND	1.9	ND	0.35	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	ND	0.41	
108-10-1	4-Methyl-2-pentanone	ND	1.9	ND	0.46	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	ND	0.41	
79-00-5	1,1,2-Trichloroethane	ND	1.9	ND	0.34	
108-88-3	Toluene	**74**	1.9	**20**	0.50	
591-78-6	2-Hexanone	ND	1.9	ND	0.46	
124-48-1	Dibromochloromethane	ND	1.9	ND	0.22	
106-93-4	1,2-Dibromoethane	ND	1.9	ND	0.24	
127-18-4	Tetrachloroethene	ND	1.9	ND	0.28	
108-90-7	Chlorobenzene	ND	1.9	ND	0.41	
100-41-4	Ethylbenzene	**7.4**	1.9	**1.7**	0.43	
179601-23-1	*m,p*-Xylenes	**33**	1.9	**7.7**	0.43	
75-25-2	Bromoform	ND	1.9	ND	0.18	
100-42-5	Styrene	ND	1.9	ND	0.44	
95-47-6	o-Xylene	**11**	1.9	**2.6**	0.43	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	ND	0.27	
541-73-1	1,3-Dichlorobenzene	ND	1.9	ND	0.31	
106-46-7	1,4-Dichlorobenzene	ND	1.9	ND	0.31	
95-50-1	1,2-Dichlorobenzene	ND	1.9	ND	0.31	

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: mv Date: 1/26/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03-1-6-07**
Client Project ID: **WDI**

CAS Project ID: P2700092
CAS Sample ID: P2700092-001

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: AC00804

Date Collected: 1/6/07
Date Received: 1/12/07
Date(s) Analyzed: 1/17/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.9 Pf 1 = 3.7

Can D.F. = 1.88

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.047	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.047	ND	0.0061	

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: MJ Date: 1/26/07

Veridian
"Truth through Science"
Environmental, Inc

SECTION C

DATA VALIDATION SUPPORT DOCUMENTATION,

LABORATORY CASE NARRATIVES, AND

PROJECT CHAIN-OF-CUSTODY RECORDS

1. SDG P2603371

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

January 12, 2007

Mr. Yasser Fahmy
TRC
21 Technology Drive
Irvine, CA 92618

RE: P2603371
WDI

Dear Mr. Fahmy:

Enclosed are the results of the sample(s) submitted to our laboratory on December 7, 2006. For your reference, these analyses have been assigned our service request number P2603371.

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 155 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

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

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

March 12, 2007

Mr. Troy Gill
TRC
21 Technology Drive
Irvine, CA 92618

Re: CAS Job File P2603371

Dear Mr. Gill:

Your CAS report number P2603371 has been revised. Pursuant your request, the case narrative has been revised to include a statement regarding the mid point standards meeting criteria. The applicable pages have been included with an "R" following the page number in the bottom right corner as an indication that it is a revised page.

Please retain this letter for your records and either return the original pages to CAS/Simi Valley or properly discard. Please contact me at (805) 526-7161 if you have any questions.

Regards,

Kate Aguilera

Kate Aguilera
Project Manager

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

LABORATORY REPORT

Client:	TRC	Date of Report:	01/12/07
		Date of Revision:	**03/12/07**
Address:	21 Technology Drive	Date Received:	12/07/06
	Irvine, CA 92618	CAS Project No:	P2603371
Contact:	Mr. Troy Gill	Purchase Order:	Verbal

Client Project ID: WDI

Eleven (11) Stainless Steel Summa Canisters labeled:

"WDI-VW-29-S-12-06-06"	"WDI-VW-29-I-12-06-06"	"WDI-VW-29-D-12-06-06"
"WDI-VW-46-S-12-06-06"	"WDI-VW-46-D-12-06-06"	"WDI-VW-46-D-12-06-06-SC"
"WDI-VW-46-I-12-06-06"	"WDI-IBM-41-12-06-06"	"WDI-IBM-32-12-06-06"
"WDI-IBM-49-12-06-06"	"WDI-IBM-21-12-06-06"	

The samples were received at the laboratory under chain of custody on December 07, 2006. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Methane and Total Gaseous Non-Methane Organics as Methane Analysis

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

The mid point standard meets the percent difference criteria of 15%.

Fixed Gases Analysis

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

The mid point standard meets the percent difference criteria of 10%.

Reviewed and Approved:

for: Liliana Marghitoiu
Analytical Chemist
Air Quality Laboratory

Reviewed and Approved:

Wade Henton
GC-VOA Team Leader
Air Quality Laboratory

2R

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

CAS Project No: P2603371

Volatile Organic Compound Analysis

The samples were also analyzed by combined gas chromatography/mass spectrometry (GC/MS) for volatile organic compounds. Four of the samples were also analyzed by combined gas chromatography/mass spectrometry (GC/MS) in selective ion monitoring (SIM) mode for selected volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. 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 Model 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.

The samples identified as "WDI-IBM-41-12-06-06", "WDI-IBM-32-12-06-06" and "WDI-IBM-21-12-06-06" were diluted due to high levels of non-target compounds present in the samples for the SIM analyses.

The results of analyses are given on the attached data sheets. 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.
Sample Acceptance Check Form

Client: TRC Work order: P2603389
Project: WDI
Sample(s) received on: 12/11/06 Date opened: 12/11/06 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
P2603389-001			NA	
P2603389-002			NA	
P2603389-003			NA	
P2603389-004			NA	

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

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: TRC Work order: P2603371

Project: WDI

Sample(s) received on: 12/7/06 Date opened: 12/7/06 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
P2603371-001			NA	
P2603371-002			NA	
P2603371-003			NA	
P2603371-004			NA	
P2603371-005			NA	
P2603371-006			NA	
P2603371-007			NA	
P2603371-008			NA	
P2603371-009			NA	
P2603371-010			NA	

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

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: TRC Work order: P2603371

Project: WDI

Sample(s) received on: 12/7/06 Date opened: 12/7/06 by: MZ

Lab Sample ID	Required pH (as received, if required)	pH (as received, if required)	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2603371-011			NA	

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. P2603371

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

Project Name: WDI

Project Number:

Project Manager: YASSER FAHMY

Phone: (949) 727-9336 Fax: (949) 753-0111

P.O. # / Billing Information:

Email Address for Result Reporting: YFAHMY@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 25 C MODIFIED (TOTAL METHANE ORGANIC CARBON)	EPA 3 C MODIFIED (METHANE)		Comments e.g. Actual Preservative or specific Instructions
WDI-VW-29-S-12-06-06	1 -6.1	12-06-06	1558	AIR	SC00365	6V-.05-040	6L	X	X	X		
WDI-VW-29-I-12-06-06	2 -6.6	12-06-06	1558	AIR	SC00581	6V-0.5-099	6L	X	X	X		
WDI-VW-29-D-12-06-06	3 -6.6	12-06-06	1558	AIR	SC00225	6V-0.5-056	6L	X	X	X		
WDI-VW-46-S-12-06-06	4 -3.5	12-06-06	1841	AIR	SC00842	6V-0.5-122	6L	X	X	X		
WDI-VW-46-D-12-06-06	5 -3.9	12-06-06	1841	AIR	SC00759	6V-0.5-036	6L	X	X	X		
WDI-VW-46-D-12-06-06-SC	6 +0.9	12-06-06	1841	AIR	SC00713	6V-0.5-069	6L	X	X	X		
WDI-VW-46-I-12-06-06	7 -3.9	12-06-06	1841	AIR	SC00097	6V-0.5-009	6L	X	X	X		
WDI-IBM-41-12-06-06	8 -5.5	12-06-06	0843	AIR	AC00937	FC00559	6L	X	X	X		
WDI-IBM-32-12-06-06	9 -5.0	12-06-06	0924	AIR	AC01214	FC00385	6L	X	X	X		
WDI-IBM-49-12-06-06	10 -4.7	12-06-06	0948	AIR	AC01101	FC00330	6L	X	X	X		
WDI-IBM-21-12-06-06	11 -7.4	12-06-06	0816	AIR	AC01106	FC00350	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	12-7-06	1151	[illegible]	12/7/06	1151

Cooler / Blank 13741
Temperature ____ °C 10820

155

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
3C	Air	MB	Method Blank P061212-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603371

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061212-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/12/06
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

all ND

Verified By: MS Date: 12/22/06

✓

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061212-LCS

Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/12/06
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Oxygen + Argon *	219,000	230,000	**105**	90-110	
Nitrogen	780,000	818,000	**105**	90-110	

all OK

Verified By: WJ Date: 12/22/06

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

WR 8/22/06

(#) = Out of Range

LW 12/12/06

COLUMBIA ANALYTICAL INC.

EPA 3C GC/TCD Analysis for Fixed Gases

Client & PAI Job# : TRC P2603371
Analyst : WHH
Sample amount : ~100uL

Printed : 12/12/06
Instrument : GC #1 / TCD #1
Date analyzed : 12/12/06

Sample Result

Sample ID	Hydrogen	O2/Ar	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	Pi1	Pf1	Pi2	Pf2
STD-50000ppm	37173	51597	50371	52449	42311	52897				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	7.3%	3.3%	0.3%	4.8%	5.6%	5.0%				✓
MB	0	0	0	0	0	0				
LAB AIR	0	230102	817569	0	0	526				
3371-001	0	145256	625688	0	0	16674	-3.0	4.0		
3371-002	0	66250	636912	0	0	53328	-3.2	3.5		
3371-003	0	52666	626083	0	0	73088	-3.2	3.5		
3371-004	0	126979	719815	0	1340	11095	-1.7	3.5		
3371-005	0	81408	693033	0	0	71787	-1.9	3.5		
3371-006	0	120414	851162	0	0	74431	0.9	3.6		
3371-007	0	86017	696576	0	0	65350	-1.9	3.5		
3371-008	0	175775	618237	0	0	379	-2.7	3.5		
3371-009	0	176363	619653	0	0	361	-2.5	3.6		
3371-010	0	172070	604624	0	0	505	-2.3	3.5		
3371-011	0	152289	533521	0	0	435	-3.6	3.6		
3371-002 dup	0	66791	640775	0	0	53341	-3.2	3.5		
STD 50000ppm S14-09	38180	52643	51079	53278	43278	53975				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	4.8%	5.3%	1.1%	6.4%	8.1%	7.2%				✓

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	230102	817569	0	0	526	104.8	1.00
3371-001	0	232161	1000031	0	0	26649	125.9	1.60
3371-002	0	104848	1007983	0	0	84397	119.7	1.58
3371-003	0	83350	990845	0	0	115670	119.0	1.58
3371-004	0	177771	1007740	0	1877	15532	120.3	1.40
3371-005	0	115753	985407	0	0	102072	120.3	1.42
3371-006	0	141255	998478	0	0	87313	122.7	1.17
3371-007	0	122306	990444	0	0	92919	120.6	1.42
3371-008	0	266592	937660	0	0	574	120.5	1.52
3371-009	0	264544	929479	0	0	542	119.5	1.50
3371-010	0	252555	887431	0	0	742	114.1	1.47
3371-011	0	251071	879589	0	0	718	113.1	1.65
3371-002 dup	0	105704	1014096	0	0	84417	120.4	1.58

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	37173	51597	50371	52449	42311	52897	
MB	ND	ND	ND	ND	ND	ND	
LAB AIR	ND	219500	779898	ND	ND	502	99.99
3371-001	ND	184406	794327	ND	ND	21167	99.99
3371-002	ND	87567	841847	ND	ND	70487	99.99
3371-003	ND	70043	832654	ND	ND	97203	99.99
3371-004	ND	147768	837661	ND	1560	12911	99.99
3371-005	ND	96192	818885	ND	ND	84823	99.99
3371-006	ND	115106	813644	ND	ND	71150	99.99
3371-007	ND	101432	821407	ND	ND	77061	99.99
3371-008	ND	221248	778175	ND	ND	477	99.99
3371-009	ND	221434	778012	ND	ND	453	99.99
3371-010	ND	221376	777874	ND	ND	650	99.99
3371-011	ND	221894	777372	ND	ND	634	99.99
3371-002 dup	ND	87769	842036	ND	ND	70095	99.99

Injection Log

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

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	08210601.d	10.	Test		21 Aug 106 12::5
2	4	08210602.d	10.	Test		21 Aug 106 13::5
3	4	08210603.d	10.	MB		21 Aug 106 13::0
4	4	08210604.d	10.	test		21 Aug 106 12::1
5	4	08210605.d	10.	STD 1 S14-03260601 (loop 0.17)		21 Aug 106 12::3
6	4	08210606.d	10.	STD 2 S14-04120602 (loop 0.17)		21 Aug 106 12::1
7	5	08210607.d	10.	STD 3 S14-04120602 (loop 1.00)		21 Aug 106 12::3
8	5	08210608.d	10.	STD 4 S14-04120602 (loop 10.47)		21 Aug 106 12::4
9	5	08210609.d	10.	STD 5 S14-~~05~~ 04120602 (loop 18.0)		21 Aug 106 12::5
10	5	08210610.d	10.	lab air	12/11/06	21 Aug 106 12::1
11	5	08210611.d	10.	icv		21 Aug 106 12::2
12	5	08210612.d	10.	ICV S14-07110501		21 Aug 106 12::5
13	5	08210613.d	10.	blank		21 Aug 106 12::1

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

DATE : 12 / 12 / 2006 *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 FXGS 12006-12/12 **METHOD FILE NAME : J:\GC1\METHODS** 3C082106 **.M**

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD 50000ppm SLt -09010603		WH
02	MB		
03	Lab Air		
04	Lab Air		
05	3371 - 001		
06	002		
07	002 Dup		
08	003		
09	004		
10	005		
11	006		
12	007		
13	008		
14	STD 50000ppm SLt -09010603		
15	3371 - 009		
16	010		
17	011		
18	3389 - 001		
19	002		
20	003		
21	3389 - 004		WH
22	STD 50000ppm SLt -09010603		
23			
24			
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37			
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39			
40			

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
25C	Air	MB	Method Blank P061212-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____ EPA Method 25C
Aq. = Aqueous; S = Solid
2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603371

Veridian Environmental, Inc.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061212-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: 12/12/06
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.

all ND

Verified By: W Date: 12/22/06

03371SVG.RE1 -MBlank

✓

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061212-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: 12/12/06
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Methane	57.5	52.3	91	90-110	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	345	313	91	90-110	

ok

Verified By: MW Date: 12/22/06

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

PERFORMANCE ANALYTICAL INC.

ZW 12/12/06

EPA 25C TCA/FID Analysis for TGNMO

Client & PAI Job# : TRC P2603371
Analyst : WHH
Sample amount : 500uL / 68uL

Printed : 12/12/06
Instrument : GC #1 / FID #1
Date analyzed : 12/12/06

Sample Results (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGNMO-2	Pi1	Pf1	Pi2	Pf2
STD 120ppm S14-101106	104.1	81.2	100.3	117.0					
ACTUAL	100.4	80.7	99.7	120.0					
% DIFF.	3.7%	0.6%	0.6%	2.5%					
MB NL	0.00	0.00	0.00	0.00	0.00				
LAB AIR NL	1.17	1.94	485.01	0.00	0.00				
3371-001 v	0.42	0.87	v	0.38	0.00	-3.0	4.0		
3371-002 v	1.12	0.00	v	1.24	0.00	-3.2	3.5		
3371-003 v	0.72	0.00	v	1.71	0.00	-3.2	3.5		
3371-004 v	0.50	1161.74	v	0.96	0.00	-1.7	3.5		
3371-005 v	0.69	0.63	v	1.50	0.00	-1.9	3.5		
3371-006 v	0.78	0.95	v	1.87	0.00	0.9	3.6		
3371-007 v	0.51	0.84	v	1.50	0.00	-1.9	3.5		
3371-008 v	3.18	2.44	v	4.16	0.00	-2.7	3.5		
3371-009 v	17.29	7.16	v	0.00	0.00	-2.5	3.6		
3371-010 v	1.90	2.26	v	0.00	0.00	-2.3	3.5		
3371-011 v	0.75	1.81	v	33.55	0.00	-3.6	3.6		
3371-004 v dup	0.77	1159.13	v	0.92	0.00	-1.7	3.5		
LCS 57/345ppm	55.08	52.34	54.82	312.89					
ACTUAL	57.9	57.5	57.9	345.0					
% Recovery	95.1%	91.0%	94.7%	90.7%					
STD 120ppm S14-101106	107.58	82.43	117.76	122.53					
ACTUAL	100.4	80.7	99.7	120.0					
% DIFF.	7.2%	2.2%	18.1%	2.1%					

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	ND	ND	ND	1.00	1.00	1.00
LAB AIR NL	1.17	1.94	485.01	ND	ND	1.00	1.00	1.00
3371-001 v	ND	1.39	VENT	ND	ND	1.00	1.00	1.60
3371-002 v	ND	ND	VENT	1.96	0.33	1.00	1.00	1.58
3371-003 v	ND	ND	VENT	2.70	0.45	1.00	1.00	1.58
3371-004 v	ND	1626.43	VENT	ND	ND	1.00	1.00	1.40
3371-005 v	ND	0.90	VENT	2.13	0.36	1.00	1.00	1.42
3371-006 v	ND	1.11	VENT	2.19	0.37	1.00	1.00	1.17
3371-007 v	ND	1.19	VENT	2.13	0.35	1.00	1.00	1.42
3371-008 v	ND	3.70	VENT	6.30	1.05	1.00	1.00	1.52
3371-009 v	25.94	10.74	VENT	ND	ND	1.00	1.00	1.50
3371-010 v	ND	3.32	VENT	ND	ND	1.00	1.00	1.47
3371-011 v	ND	2.99	VENT	55.31	9.22	1.00	1.00	1.65
3371-004 v dup	ND	1622.78	VENT	ND	ND	1.00	1.00	1.40

Injection Log

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

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

WP 10/23/06

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

DATE: 12 / 12 / 2006 *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 / 2006-12/12 **METHOD FILE NAME : J:\GC1\METHODS** M102006 **.M**

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD S14-10110605		WH
02	↓		
03	MB		
04	Lab Air		
05	LCS S14-0405060 2		
06	X		
07	3371-001 ✓		
08	002 ✓		
09	003 ✓		
10	004 ✓		
11	004Dup ✓		
12	005 ✓		
13	006 ✓		
14	007 ✓		
15	✓ 008 ✓		
16	STD S14-10110605		
17	3371-009 ✓		
18	010 ✓		
19	↓ 011 ✓		
20	3389-001 ✓		↓

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	3389-001 ✓		WH
22	X		
23	3389-002 ✓		
24	003 ✓		
25	↓ 004 ✓		
26	STD S14-10110605		
27	↓		↓
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
TO-15	Air	MB	Method Blank P061213-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603371

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061212-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: 12/12/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

all ND

Verified By: HL Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061212-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: 12/12/06
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.

all ND

Verified By: MS Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061213-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: 12/13/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

all ND

Verified By: MJ Date: 12/22/06

✓

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061213-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: 12/13/06
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.

all ND

Verified By: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061214-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: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

all ND

Verified By: MW Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061214-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: 12/14/06
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.

all ND

Verified By: LW Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061218-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: 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

all ND

Verified By: MS Date: 12/20/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061218-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: 12/18/06
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.

all ND

Verified By: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603371

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: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/12 - 12/18/06

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	P061212-MB	95	80-120	98	80-120	103	80-120	
Method Blank	P061213-MB	97	80-120	99	80-120	102	80-120	
Method Blank	P061214-MB	97	80-120	98	80-120	102	80-120	
Method Blank	P061218-MB	91	80-120	101	80-120	108	80-120	
Lab Control Sample	P061212-LCS	99	80-120	98	80-120	102	80-120	
Lab Control Sample	P061213-LCS	101	80-120	97	80-120	102	80-120	
Lab Control Sample	P061214-LCS	100	80-120	98	80-120	100	80-120	
Lab Control Sample	P061218-LCS	91	80-120	99	80-120	107	80-120	
Duplicate Lab Control Sample	P061212-DLCS	98	80-120	97	80-120	102	80-120	
Duplicate Lab Control Sample	P061213-DLCS	99	80-120	97	80-120	103	80-120	
Duplicate Lab Control Sample	P061214-DLCS	99	80-120	95	80-120	102	80-120	
Duplicate Lab Control Sample	P061218-DLCS	91	80-120	100	80-120	108	80-120	
WDI-VW-29-S-12-06-06	P2603371-001	93	80-120	100	80-120	102	80-120	
WDI-VW-29-I-12-06-06	P2603371-002	96	80-120	95	80-120	103	80-120	
WDI-VW-29-D-12-06-06	P2603371-003	93	80-120	100	80-120	102	80-120	
WDI-VW-46-S-12-06-06	P2603371-004	96	80-120	97	80-120	102	80-120	
WDI-VW-46-D-12-06-06	P2603371-005	97	80-120	98	80-120	102	80-120	
WDI-VW-46-D-12-06-06-SC	P2603371-006	109	80-120	98	80-120	103	80-120	
WDI-VW-46-I-12-06-06	P2603371-007	107	80-120	98	80-120	102	80-120	
WDI-VW-46-I-12-06-06	P2603371-007DUP	108	80-120	98	80-120	101	80-120	
WDI-IBM-41-12-06-06	P2603371-008	107	80-120	97	80-120	103	80-120	
WDI-IBM-32-12-06-06	P2603371-009	99	80-120	98	80-120	101	80-120	
WDI-IBM-49-12-06-06	P2603371-010	91	80-120	99	80-120	107	80-120	
WDI-IBM-49-12-06-06	P2603371-010DUP	90	80-120	99	80-120	106	80-120	
WDI-IBM-21-12-06-06	P2603371-011	88	80-120	100	80-120	108	80-120	

Verified By: MV Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061212-LCS, P061212-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: 12/12/06
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	23.4	22.8	96	94	65-135	2	35	
Vinyl Chloride	24.8	20.2	21.1	81	85	65-135	5	35	
Bromomethane	25.0	23.1	22.6	92	90	65-135	2	35	
Chloroethane	25.0	23.1	22.7	92	91	65-135	1	35	
Acetone	26.5	24.1	23.9	91	90	65-135	1	35	
Trichlorofluoromethane	24.3	23.1	22.7	95	93	65-135	2	35	
1,1-Dichloroethene	27.3	25.7	25.8	94	95	65-135	1	35	
Methylene chloride	26.8	24.7	24.6	92	92	65-135	0	35	
Trichlorotrifluoroethane	27.0	23.1	22.5	86	83	65-135	4	35	
Carbon Disulfide	25.0	23.5	23.4	94	94	65-135	0	35	
trans-1,2-Dichloroethene	26.3	25.3	25.5	96	97	65-135	1	35	
1,1-Dichloroethane	26.3	24.8	24.8	94	94	65-135	0	35	
Methyl tert-Butyl Ether	26.3	23.9	23.5	91	89	65-135	2	35	
Vinyl Acetate	24.3	23.0	22.7	95	93	65-135	2	35	
2-Butanone (MEK)	26.8	25.7	25.5	96	95	65-135	1	35	
cis-1,2-Dichloroethene	26.5	25.2	25.4	95	96	65-135	1	35	
Chloroform	30.0	26.6	26.2	89	87	65-135	2	35	
1,2-Dichloroethane	26.0	25.8	25.3	99	97	65-135	2	35	
1,1,1-Trichloroethane	26.3	24.9	24.7	95	94	65-135	1	35	
Benzene	26.3	24.0	23.9	91	91	65-135	0	35	
Carbon Tetrachloride	25.8	25.5	25.4	99	98	65-135	1	35	
1,2-Dichloropropane	26.0	24.9	24.9	96	96	65-135	0	35	

all OK

Verified By: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061212-LCS, P061212-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: 12/12/06
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	27.0	27.3	**98**	**99**	65-135	**1**	35	
Trichloroethene	27.3	26.2	26.1	**96**	**96**	65-135	**0**	35	
cis-1,3-Dichloropropene	26.0	24.2	24.2	**93**	**93**	65-135	**0**	35	
4-Methyl-2-pentanone	26.5	27.1	27.3	**102**	**103**	65-135	**1**	35	
trans-1,3-Dichloropropene	27.8	27.3	27.6	**98**	**99**	65-135	**1**	35	
1,1,2-Trichloroethane	25.8	25.2	25.1	**98**	**97**	65-135	**1**	35	
Toluene	26.0	24.1	24.0	**93**	**92**	65-135	**1**	35	
2-Hexanone	26.0	26.1	25.8	**100**	**99**	65-135	**1**	35	
Dibromochloromethane	26.5	25.6	25.7	**97**	**97**	65-135	**0**	35	
1,2-Dibromoethane	26.0	24.8	24.7	**95**	**95**	65-135	**0**	35	
Tetrachloroethene	25.8	23.6	23.6	**91**	**91**	65-135	**0**	35	
Chlorobenzene	26.0	24.3	24.1	**93**	**93**	65-135	**0**	35	
Ethylbenzene	25.8	24.2	24.2	**94**	**94**	65-135	**0**	35	
m,p-Xylenes	61.5	59.2	59.2	**96**	**96**	65-135	**0**	35	
Bromoform	31.3	30.1	30.1	**96**	**96**	65-135	**0**	35	
Styrene	25.8	25.2	25.2	**98**	**98**	65-135	**0**	35	
o-Xylene	29.0	27.9	27.9	**96**	**96**	65-135	**0**	35	
1,1,2,2-Tetrachloroethane	29.3	28.0	28.1	**96**	**96**	65-135	**0**	35	
1,3-Dichlorobenzene	25.3	23.8	23.9	**94**	**94**	65-135	**0**	35	
1,4-Dichlorobenzene	26.0	24.8	25.0	**95**	**96**	65-135	**1**	35	
1,2-Dichlorobenzene	25.5	24.3	24.4	**95**	**96**	65-135	**1**	35	

Verified By: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061213-LCS, P061213-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: 12/13/06
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	23.2	22.8	95	94	65-135	1	35	
Vinyl Chloride	24.8	21.3	20.9	86	84	65-135	2	35	
Bromomethane	25.0	22.7	22.3	91	89	65-135	2	35	
Chloroethane	25.0	22.7	22.5	91	90	65-135	1	35	
Acetone	26.5	24.3	24.0	92	91	65-135	1	35	
Trichlorofluoromethane	24.3	23.1	22.7	95	93	65-135	2	35	
1,1-Dichloroethene	27.3	25.6	25.6	94	94	65-135	0	35	
Methylene chloride	26.8	24.4	24.4	91	91	65-135	0	35	
Trichlorotrifluoroethane	27.0	22.6	21.5	84	80	65-135	5	35	
Carbon Disulfide	25.0	23.4	23.2	94	93	65-135	1	35	
trans-1,2-Dichloroethene	26.3	25.3	25.0	96	95	65-135	1	35	
1,1-Dichloroethane	26.3	25.0	24.9	95	95	65-135	0	35	
Methyl tert-Butyl Ether	26.3	23.7	23.3	90	89	65-135	1	35	
Vinyl Acetate	24.3	22.7	22.1	93	91	65-135	2	35	
2-Butanone (MEK)	26.8	25.4	25.2	95	94	65-135	1	35	
cis-1,2-Dichloroethene	26.5	25.2	25.1	95	95	65-135	0	35	
Chloroform	30.0	26.7	26.3	89	88	65-135	1	35	
1,2-Dichloroethane	26.0	25.6	25.2	98	97	65-135	1	35	
1,1,1-Trichloroethane	26.3	24.8	24.5	94	93	65-135	1	35	
Benzene	26.3	23.8	23.7	90	90	65-135	0	35	
Carbon Tetrachloride	25.8	25.3	25.2	98	98	65-135	0	35	
1,2-Dichloropropane	26.0	25.0	24.9	96	96	65-135	0	35	

all OK

Verified By: W Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061213-LCS, P061213-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: 12/13/06
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	27.1	27.2	**99**	**99**	65-135	**0**	35	
Trichloroethene	27.3	25.6	25.8	**94**	**95**	65-135	**1**	35	
cis-1,3-Dichloropropene	26.0	23.9	24.1	**92**	**93**	65-135	**1**	35	
4-Methyl-2-pentanone	26.5	27.0	27.2	**102**	**103**	65-135	**1**	35	
trans-1,3-Dichloropropene	27.8	27.3	27.6	**98**	**99**	65-135	**1**	35	
1,1,2-Trichloroethane	25.8	24.8	25.0	**96**	**97**	65-135	**1**	35	
Toluene	26.0	23.6	23.6	**91**	**91**	65-135	**0**	35	
2-Hexanone	26.0	25.9	25.9	**100**	**100**	65-135	**0**	35	
Dibromochloromethane	26.5	25.2	25.3	**95**	**95**	65-135	**0**	35	
1,2-Dibromoethane	26.0	24.4	24.5	**94**	**94**	65-135	**0**	35	
Tetrachloroethene	25.8	23.1	23.3	**90**	**90**	65-135	**0**	35	
Chlorobenzene	26.0	23.9	23.9	**92**	**92**	65-135	**0**	35	
Ethylbenzene	25.8	24.0	24.1	**93**	**93**	65-135	**0**	35	
m,p-Xylenes	61.5	58.4	58.6	**95**	**95**	65-135	**0**	35	
Bromoform	31.3	29.7	29.7	**95**	**95**	65-135	**0**	35	
Styrene	25.8	24.6	25.0	**95**	**97**	65-135	**2**	35	
o-Xylene	29.0	27.6	27.8	**95**	**96**	65-135	**1**	35	
1,1,2,2-Tetrachloroethane	29.3	27.7	27.8	**95**	**95**	65-135	**0**	35	
1,3-Dichlorobenzene	25.3	23.6	23.8	**93**	**94**	65-135	**1**	35	
1,4-Dichlorobenzene	26.0	24.6	24.6	**95**	**95**	65-135	**0**	35	
1,2-Dichlorobenzene	25.5	24.1	24.3	**95**	**95**	65-135	**0**	35	

Verified By: [signature] Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061214-LCS, P061214-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: 12/14/06
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	23.1	23.1	**95**	**95**	65-135	**0**	35	
Vinyl Chloride	24.8	22.5	23.4	**91**	**94**	65-135	**3**	35	
Bromomethane	25.0	22.5	23.0	**90**	**92**	65-135	**2**	35	
Chloroethane	25.0	22.2	22.4	**89**	**90**	65-135	**1**	35	
Acetone	26.5	23.8	23.9	**90**	**90**	65-135	**0**	35	
Trichlorofluoromethane	24.3	22.8	22.9	**94**	**94**	65-135	**0**	35	
1,1-Dichloroethene	27.3	24.8	24.9	**91**	**91**	65-135	**0**	35	
Methylene chloride	26.8	23.6	23.6	**88**	**88**	65-135	**0**	35	
Trichlorotrifluoroethane	27.0	23.0	23.4	**85**	**87**	65-135	**2**	35	
Carbon Disulfide	25.0	23.1	23.2	**92**	**93**	65-135	**1**	35	
trans-1,2-Dichloroethene	26.3	24.8	24.8	**94**	**94**	65-135	**0**	35	
1,1-Dichloroethane	26.3	24.6	24.7	**94**	**94**	65-135	**0**	35	
Methyl tert-Butyl Ether	26.3	23.9	24.2	**91**	**92**	65-135	**1**	35	
Vinyl Acetate	24.3	22.3	22.3	**92**	**92**	65-135	**0**	35	
2-Butanone (MEK)	26.8	25.0	25.2	**93**	**94**	65-135	**1**	35	
cis-1,2-Dichloroethene	26.5	24.7	24.9	**93**	**94**	65-135	**1**	35	
Chloroform	30.0	26.2	26.3	**87**	**88**	65-135	**1**	35	
1,2-Dichloroethane	26.0	25.3	25.5	**97**	**98**	65-135	**1**	35	
1,1,1-Trichloroethane	26.3	23.5	24.9	**89**	**95**	65-135	**7**	35	
Benzene	26.3	23.3	23.6	**89**	**90**	65-135	**1**	35	
Carbon Tetrachloride	25.8	24.8	25.4	**96**	**98**	65-135	**2**	35	
1,2-Dichloropropane	26.0	23.9	24.6	**92**	**95**	65-135	**3**	35	

Verified By: MW Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061214-LCS, P061214-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: 12/14/06
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	26.4	27.0	96	98	65-135	2	35	
Trichloroethene	27.3	25.4	25.5	93	93	65-135	0	35	
cis-1,3-Dichloropropene	26.0	23.3	23.6	90	91	65-135	1	35	
4-Methyl-2-pentanone	26.5	26.2	26.6	99	100	65-135	1	35	
trans-1,3-Dichloropropene	27.8	26.2	26.9	94	97	65-135	3	35	
1,1,2-Trichloroethane	25.8	24.3	24.2	94	94	65-135	0	35	
Toluene	26.0	23.7	23.5	91	90	65-135	1	35	
2-Hexanone	26.0	25.1	25.3	97	97	65-135	0	35	
Dibromochloromethane	26.5	25.2	24.6	95	93	65-135	2	35	
1,2-Dibromoethane	26.0	24.4	23.8	94	92	65-135	2	35	
Tetrachloroethene	25.8	23.5	22.6	91	88	65-135	3	35	
Chlorobenzene	26.0	23.8	23.7	92	91	65-135	1	35	
Ethylbenzene	25.8	23.9	23.7	93	92	65-135	1	35	
m,p-Xylenes	61.5	57.3	57.1	93	93	65-135	0	35	
Bromoform	31.3	29.1	29.0	93	93	65-135	0	35	
Styrene	25.8	23.9	24.1	93	93	65-135	0	35	
o-Xylene	29.0	26.4	27.0	91	93	65-135	2	35	
1,1,2,2-Tetrachloroethane	29.3	26.6	27.1	91	92	65-135	1	35	
1,3-Dichlorobenzene	25.3	22.6	23.2	89	92	65-135	3	35	
1,4-Dichlorobenzene	26.0	23.5	24.0	90	92	65-135	2	35	
1,2-Dichlorobenzene	25.5	23.2	23.7	91	93	65-135	2	35	

Verified By: LL Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061218-LCS, P061218-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: 12/18/06
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	21.7	21.5	**89**	**88**	65-135	**1**	35	
Vinyl Chloride	24.8	20.9	22.3	**84**	**90**	65-135	**7**	35	
Bromomethane	25.0	22.5	23.2	**90**	**93**	65-135	**3**	35	
Chloroethane	25.0	21.6	21.8	**86**	**87**	65-135	**1**	35	
Acetone	26.5	23.3	23.1	**88**	**87**	65-135	**1**	35	
Trichlorofluoromethane	24.3	21.7	21.4	**89**	**88**	65-135	**1**	35	
1,1-Dichloroethene	27.3	24.6	24.5	**90**	**90**	65-135	**0**	35	
Methylene chloride	26.8	23.2	23.2	**87**	**87**	65-135	**0**	35	
Trichlorotrifluoroethane	27.0	24.1	24.6	**89**	**91**	65-135	**2**	35	
Carbon Disulfide	25.0	22.3	22.5	**89**	**90**	65-135	**1**	35	
trans-1,2-Dichloroethene	26.3	23.3	23.2	**89**	**88**	65-135	**1**	35	
1,1-Dichloroethane	26.3	23.2	22.7	**88**	**86**	65-135	**2**	35	
Methyl tert-Butyl Ether	26.3	22.6	22.7	**86**	**86**	65-135	**0**	35	
Vinyl Acetate	24.3	21.9	21.8	**90**	**90**	65-135	**0**	35	
2-Butanone (MEK)	26.8	24.3	24.6	**91**	**92**	65-135	**1**	35	
cis-1,2-Dichloroethene	26.5	22.9	22.8	**86**	**86**	65-135	**0**	35	
Chloroform	30.0	24.7	24.4	**82**	**81**	65-135	**1**	35	
1,2-Dichloroethane	26.0	22.7	22.5	**87**	**87**	65-135	**0**	35	
1,1,1-Trichloroethane	26.3	23.3	23.1	**89**	**88**	65-135	**1**	35	
Benzene	26.3	22.9	22.6	**87**	**86**	65-135	**1**	35	
Carbon Tetrachloride	25.8	24.0	23.8	**93**	**92**	65-135	**1**	35	
1,2-Dichloropropane	26.0	23.2	22.8	**89**	**88**	65-135	**1**	35	

Data not evaluated

Verified By: [signature] Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061218-LCS, P061218-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: 12/18/06
Volume(s) Analyzed: NA

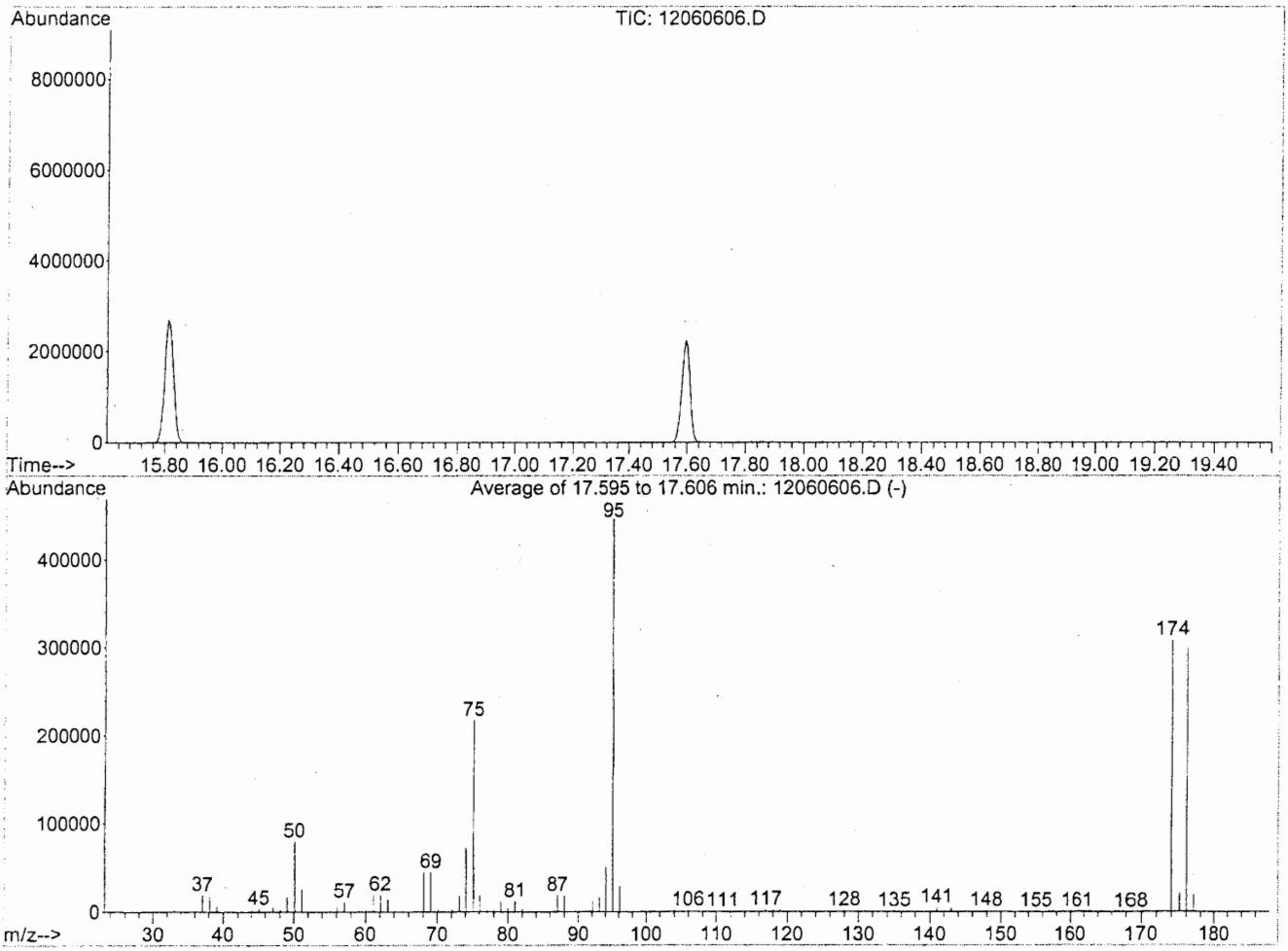
Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	25.1	24.5	91	89	65-135	2	35	
Trichloroethene	27.3	25.4	25.2	93	92	65-135	1	35	
cis-1,3-Dichloropropene	26.0	22.0	21.9	85	84	65-135	1	35	
4-Methyl-2-pentanone	26.5	24.7	24.3	93	92	65-135	1	35	
trans-1,3-Dichloropropene	27.8	24.8	24.4	89	88	65-135	1	35	
1,1,2-Trichloroethane	25.8	23.3	23.0	90	89	65-135	1	35	
Toluene	26.0	23.3	23.5	90	90	65-135	0	35	
2-Hexanone	26.0	23.8	23.7	92	91	65-135	1	35	
Dibromochloromethane	26.5	24.8	25.0	94	94	65-135	0	35	
1,2-Dibromoethane	26.0	24.1	24.2	93	93	65-135	0	35	
Tetrachloroethene	25.8	23.6	23.6	91	91	65-135	0	35	
Chlorobenzene	26.0	23.6	23.7	91	91	65-135	0	35	
Ethylbenzene	25.8	23.2	23.3	90	90	65-135	0	35	
m,p-Xylenes	61.5	56.5	56.7	92	92	65-135	0	35	
Bromoform	31.3	29.7	29.7	95	95	65-135	0	35	
Styrene	25.8	24.5	24.5	95	95	65-135	0	35	
o-Xylene	29.0	26.7	26.8	92	92	65-135	0	35	
1,1,2,2-Tetrachloroethane	29.3	26.6	26.7	91	91	65-135	0	35	
1,3-Dichlorobenzene	25.3	23.4	23.6	92	93	65-135	1	35	
1,4-Dichlorobenzene	26.0	24.3	24.4	93	94	65-135	1	35	
1,2-Dichlorobenzene	25.5	23.7	24.0	93	94	65-135	1	35	

Verified By: LJ Date: 12/22/06

Data Path : J:\MS08\Data\2006_012\06\
Data File : 12060606.D
Acq On : 6 Dec 2006 15:30
Operator : LM
Sample : 25ng TO-15 BFB
Misc : S15-12050601
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 01 11:40:51 2006



AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.8	79581	PASS
75	95	30	66	48.6	217322	PASS
95	95	100	100	100.0	446976	PASS
96	95	5	9	6.5	28912	PASS
173	174	0.00	2	0.2	734	PASS
174	95	50	120	69.0	308394	PASS
175	174	4	9	6.9	21202	PASS
176	174	93	101	96.6	298005	PASS
177	176	5	9	6.5	19282	PASS

LM 12/07/06

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Response Factor Report MS08

Method Path : J:\MS08\METHODS\
Method File : R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006
Response Via : Initial Calibration

All %RSDs ≤ 30%
All RRFs ≥ 0.05

Calibration Files
0.5 =12060607.D 1 =12060608.D 5 =12060609.D 25 =12060610.D
50 =12060611.D 100 =12060612.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I ----------ISTD----------								
2)	T	Propene	1.556	1.487	1.375	1.028	0.937	0.954	1.223	23.00
3)	T	Dichlorodifluorom	2.931	2.932	2.696	2.367	2.232	2.195	2.559	13.23
4)	T	Chloromethane	2.263	2.274	2.201	1.931	1.869	1.942	2.080	8.90
5)	T	Freon 114	0.815	0.806	0.700	0.606	0.575	0.545	0.675	17.40
6)	T	Vinyl Chloride	1.861	1.777	1.409	1.240	1.078	1.143	1.418	23.34
7)	T	1,3-Butadiene	1.650	1.575	1.459	1.227	1.168	1.173	1.375	15.53
8)	T	Bromomethane	1.212	1.186	1.082	0.930	0.914	0.981	1.051	12.29
9)	T	Chloroethane	1.146	1.093	1.018	0.877	0.842	0.866	0.974	13.33
10)	T	Ethanol	0.608	0.564	0.547	0.918	0.927	0.955	0.753	26.42
11)	T	Acetonitrile	2.190	2.095	2.024	2.393	2.326	2.394	2.237	7.05
12)	T	Acrolein	0.758	0.710	0.719	0.714	0.730	0.753	0.731	2.78
13)	T	Acetone	1.272	1.140	1.105	0.822	0.932	1.004	1.046	15.29
14)	T	Trichlorofluorome	1.895	1.852	1.773	1.660	1.632	1.636	1.741	6.63
15)	T	Isopropanol	3.587	3.505	2.972	3.370	2.969	2.806	3.201	10.19
16)	T	Acrylonitrile	1.573	1.464	1.561	1.634	1.608	1.642	1.580	4.14
17)	T	1,1-Dichloroethen	1.245	1.270	1.198	1.126	1.090	1.103	1.172	6.53
18)	T	tert-Butanol	3.496	3.504	3.088	2.880	2.614	2.170	2.959	17.56
19)	T	Methylene Chlorid	1.588	1.449	1.358	1.243	1.211	1.221	1.345	11.23
20)	T	Allyl Chloride	1.643	1.700	1.737	1.747	1.733	1.772	1.722	2.62
21)	T	Trichlorotrifluor	0.876	0.775	0.684	0.527	0.557	0.681	0.683	19.21
22)	T	Carbon Disulfide	5.671	5.360	4.931	4.422	4.294	4.308	4.831	12.16
23)	T	trans-1,2-Dichlor	1.968	1.948	1.906	1.796	1.809	1.858	1.881	3.81
24)	T	1,1-Dichloroethan	2.099	2.008	1.925	1.852	1.811	1.764	1.910	6.64
25)	T	Methyl tert-Butyl	3.715	3.514	3.025	2.597	2.607	2.757	3.036	15.75
26)	T	Vinyl Acetate	0.248	0.292	0.251	0.241	0.239	0.246	0.253	7.80
27)	T	2-Butanone	0.872	0.824	0.788	0.761	0.772	0.811	0.805	5.03
28)	T	cis-1,2-Dichloroe	1.883	1.839	1.764	1.700	1.682	1.700	1.761	4.73
29)	T	Diisopropyl Ether	0.954	0.958	0.848	0.749	0.730	0.752	0.832	12.58
30)	T	Ethyl Acetate	0.448	0.439	0.407	0.372	0.372	0.385	0.404	8.33
31)	T	n-Hexane	2.029	1.877	1.621	1.300	1.293	1.385	1.584	19.77
32)	T	Chloroform	2.165	2.124	1.857	1.764	1.676	1.626	1.869	12.20
33)	S	1,2-Dichloroethan	1.958	1.951	1.848	1.854	1.817	1.835	1.877	3.26
34)	T	Tetrahydrofuran	0.836	0.808	0.793	0.697	0.724	0.692	0.759	8.13
35)	T	Ethyl tert-Butyl	1.449	1.419	1.282	1.133	1.118	1.164	1.261	11.61
36)	T	1,2-Dichloroethan	1.875	1.808	1.707	1.625	1.630	1.609	1.709	6.45
37)	IR	1,4-Difluorobenzene (----------ISTD----------								
38)	T	1,1,1-Trichloroet	0.453	0.436	0.408	0.389	0.386	0.392	0.411	6.81
39)	T	Isopropyl Acetate	0.175	0.176	0.173	0.167	0.164	0.161	0.169	3.59
40)	T	1-Butanol	0.139	0.135	0.142	0.277	0.269	0.253	0.202	34.82 NTC
41)	T	Benzene	1.230	1.169	1.053	0.972	0.952	0.940	1.053	11.59
42)	T	Carbon Tetrachlor	0.344	0.338	0.339	0.328	0.331	0.338	0.336	1.66
43)	T	Cyclohexane	0.431	0.405	0.367	0.330	0.330	0.341	0.367	11.54
44)	T	tert-Amyl Methyl	0.800	0.780	0.740	0.699	0.681	0.670	0.728	7.40
45)	T	1,2-Dichloropropa	0.289	0.276	0.270	0.261	0.257	0.257	0.268	4.67
46)	T	Bromodichlorometh	0.362	0.361	0.366	0.367	0.359	0.349	0.361	1.83
47)	T	Trichloroethene	0.259	0.244	0.244	0.231	0.227	0.226	0.238	5.41
48)	T	1,4-Dioxane	0.211	0.205	0.205	0.213	0.208	0.200	0.207	2.34
49)	T	Isooctane	1.121	1.075	1.005	0.924	0.904	0.895	0.987	9.64
50)	T	Methyl Methacryla	0.099	0.100	0.104	0.106	0.104	0.101	0.102	2.63
51)	T	n-Heptane	0.287	0.272	0.264	0.242	0.235	0.234	0.256	8.60
52)	T	cis-1,3-Dichlorop	0.473	0.468	0.463	0.455	0.443	0.430	0.455	3.61
53)	T	4-Methyl-2-pentan	0.246	0.251	0.251	0.252	0.243	0.235	0.246	2.75
54)	T	trans-1,3-Dichlor	0.414	0.428	0.427	0.433	0.425	0.417	0.424	1.68
55)	T	1,1,2-Trichloroet	0.279	0.264	0.265	0.260	0.254	0.247	0.261	4.13
56)	I	Chlorobenzene-d5 (IS3 ----------ISTD----------								
57)	S	Toluene-d8 (SS2)	2.035	2.050	2.019	2.020	2.038	2.048	2.035	0.65

Method Path : J:\MS08\METHODS\
Method File : R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006
Response Via : Initial Calibration

Calibration Files
0.5 =12060607.D 1 =12060608.D 5 =12060609.D 25 =12060610.D
50 =12060611.D 100 =12060612.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
58)	T	Toluene	2.305	2.217	2.072	1.959	1.890	1.804	2.041	9.48
59)	T	2-Hexanone	1.164	1.179	1.176	1.194	1.168	1.112	1.166	2.41
60)	T	Dibromochlorometh	0.525	0.520	0.511	0.523	0.513	0.501	0.515	1.71
61)	T	1,2-Dibromoethane	0.557	0.570	0.554	0.555	0.538	0.521	0.549	3.06
62)	T	Butyl Acetate	1.269	1.306	1.284	1.329	1.298	1.243	1.288	2.32
63)	T	n-Octane	0.461	0.455	0.436	0.409	0.394	0.378	0.422	8.00
64)	T	Tetrachloroethene	0.484	0.488	0.454	0.432	0.424	0.418	0.450	6.85
65)	T	Chlorobenzene	1.430	1.414	1.334	1.289	1.234	1.190	1.315	7.31
66)	T	Ethylbenzene	2.597	2.555	2.438	2.376	2.251	2.123	2.390	7.56
67)	T	m- & p-Xylene	1.644	1.666	1.591	1.534	1.448	1.345	1.538	8.01
68)	T	Bromoform	0.297	0.310	0.324	0.336	0.328	0.318	0.319	4.45
69)	T	Styrene	1.389	1.420	1.427	1.426	1.371	1.291	1.387	3.79
70)	T	o-Xylene	1.782	1.777	1.715	1.668	1.578	1.460	1.663	7.53
71)	T	n-Nonane	1.089	1.104	1.049	1.034	0.979	0.911	1.028	7.04
72)	T	1,1,2,2-Tetrachlo	0.820	0.819	0.808	0.809	0.773	0.734	0.794	4.26
73)	S	Bromofluorobenzen	0.594	0.601	0.600	0.601	0.597	0.591	0.597	0.68
74)	T	Cumene	2.295	2.288	2.198	2.136	2.019	1.913	2.142	7.10
75)	T	alpha-Pinene	1.184	1.221	1.155	1.132	1.091	1.049	1.139	5.47
76)	T	n-Propylbenzene	3.105	3.061	2.960	2.912	2.725	2.497	2.877	7.95
77)	T	3-Ethyltoluene	2.486	2.443	2.387	2.378	2.266	2.133	2.349	5.50
78)	T	4-Ethyltoluene	2.322	2.359	2.270	2.192	2.012	1.880	2.172	8.69
79)	T	1,3,5-Trimethylbe	2.007	2.061	1.967	1.930	1.813	1.701	1.913	6.97
80)	T	alpha-Methylstyre	0.999	1.013	1.034	1.071	1.025	0.976	1.020	3.16
81)	T	2-Ethyltoluene	2.515	2.533	2.435	2.396	2.231	2.083	2.366	7.42
82)	T	1,2,4-Trimethylbe	1.990	2.016	1.965	1.915	1.812	1.702	1.900	6.37
83)	T	n-Decane	1.194	1.176	1.156	1.109	1.047	0.967	1.108	7.85
84)	T	Benzyl Chloride	1.734	1.810	1.859	1.921	1.826	1.681	1.805	4.80
85)	T	1,3-Dichlorobenze	1.065	1.068	1.025	1.004	0.961	0.918	1.007	5.88
86)	T	1,4-Dichlorobenze	1.016	1.037	1.003	0.986	0.936	0.887	0.977	5.75
87)	T	sec-Butylbenzene	2.730	2.719	2.625	2.531	2.348	2.159	2.519	8.96
88)	T	p-Isopropyltoluen	2.142	2.181	2.104	2.051	1.939	1.781	2.033	7.33
89)	T	1,2,3-Trimethylbe	2.009	1.965	1.913	1.853	1.747	1.635	1.854	7.60
90)	T	1,2-Dichlorobenze	1.026	0.992	0.951	0.939	0.891	0.835	0.939	7.33
91)	T	d-Limonene	0.781	0.798	0.827	0.829	0.781	0.733	0.792	4.52
92)	T	1,2-Dibromo-3-Chl	0.259	0.288	0.321	0.342	0.340	0.325	0.313	10.42
93)	T	n-Undecane	1.102	1.122	1.077	0.998	0.982	0.927	1.035	7.43
94)	T	1,2,4-Trichlorobe	0.189	0.196	0.182	0.185	0.186	0.185	0.187	2.56
95)	T	Naphthalene	2.120	2.196	2.197	2.281	2.280	2.184	2.210	2.80
96)	T	n-Dodecane	0.801	0.833	0.778	0.686	0.692	0.679	0.745	9.00
97)	T	Hexachloro-1,3-bu	0.303	0.310	0.304	0.298	0.300	0.300	0.303	1.32

(#) = Out of Range

98

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\12\
Data File : 12120601.D
Acq On : 12 Dec 2006 8:48
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Quant Time: Dec 12 13:21:01 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	94	0.01
2	T	Propene	1.223	1.009	17.5	92	0.01
3	T	Dichlorodifluoromethane	2.559	2.392	6.5	95	0.02
4	T	Chloromethane	2.080	1.916	7.9	93	0.01
5	T	Freon 114	0.675	0.607	10.1	94	0.02
6	T	Vinyl Chloride	1.418	1.095	22.8	83	0.01
7	T	1,3-Butadiene	1.375	1.197	12.9	92	0.02
8	T	Bromomethane	1.051	0.913	13.1	92	0.02
9	T	Chloroethane	0.974	0.862	11.5	93	0.02
10	T	Ethanol	0.753	0.901	-19.7	92	0.02
11	T	Acetonitrile	2.237	2.357	-5.4	93	0.02
12	T	Acrolein	0.731	0.699	4.4	92	0.02
13	T	Acetone	1.046	0.819	21.7	94	0.02
14	T	Trichlorofluoromethane	1.741	1.619	7.0	92	0.01
15	T	Isopropanol	3.201	3.378	-5.5	94	0.02
16	T	Acrylonitrile	1.580	1.591	-0.7	92	0.02
17	T	1,1-Dichloroethene	1.172	1.089	7.1	91	0.01
18	T	tert-Butanol	2.959	2.895	2.2	95	0.02
19	T	Methylene Chloride	1.345	1.217	9.5	92	0.02
20	T	Allyl Chloride	1.722	1.713	0.5	92	0.01
21	T	Trichlorotrifluoroethane	0.683	0.520	23.9	93	0.01
22	T	Carbon Disulfide	4.831	4.301	11.0	92	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.762	6.3	92	0.00
24	T	1,1-Dichloroethane	1.910	1.754	8.2	89	0.01
25	T	Methyl tert-Butyl Ether	3.036	2.611	14.0	95	0.00
26	T	Vinyl Acetate	0.253	0.236	6.7	92	0.01
27	T	2-Butanone	0.805	0.743	7.7	92	0.01
28	T	cis-1,2-Dichloroethene	1.761	1.649	6.4	91	0.00
29	T	Diisopropyl Ether	0.832	0.733	11.9	92	0.00
30	T	Ethyl Acetate	0.404	0.363	10.1	92	0.01
31	T	n-Hexane	1.584	1.278	19.3	93	0.01
32	T	Chloroform	1.869	1.699	9.1	91	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.909	-1.7	97	0.01
34	T	Tetrahydrofuran	0.759	0.682	10.1	92	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.121	11.1	93	0.00
36	T	1,2-Dichloroethane	1.709	1.580	7.5	92	0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	94	0.00
38	T	1,1,1-Trichloroethane	0.411	0.379	7.8	92	0.00
39	T	Isopropyl Acetate	~~0.169~~	0.161	~~4.7~~	91	0.00
40	T	1-Butanol	0.202	0.267	-32.2#	91	0.00
41	T	Benzene	1.053	0.932	11.5	90	0.00
42	T	Carbon Tetrachloride	0.336	0.315	6.3	90	0.00
43	T	Cyclohexane	0.367	0.316	13.9	90	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.679	6.7	91	0.00
45	T	1,2-Dichloropropane	0.268	0.247	7.8	89	0.00
46	T	Bromodichloromethane	0.361	0.356	1.4	91	0.00
47	T	Trichloroethene	0.238	0.220	7.6	90	0.00
48	T	1,4-Dioxane	0.207	0.207	0.0	91	0.00
49	T	Isooctane	0.987	0.880	10.8	90	0.00
50	T	Methyl Methacrylate	0.102	0.102	0.0	91	0.00
51	T	n-Heptane	0.256	0.228	10.9	89	0.00

LM 12/12/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\12\
Data File : 12120601.D
Acq On : 12 Dec 2006 8:48
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 12 13:21:01 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.436	4.2	90	0.00
53	T	4-Methyl-2-pentanone	0.246	0.240	2.4	90	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.409	3.5	89	0.00
55	T	1,1,2-Trichloroethane	0.261	0.248	5.0	90	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	96	0.00
57	S	Toluene-d8 (SS2)	2.035	1.971	3.1	93	0.00
58	T	Toluene	2.041	1.830	10.3	89	0.00
59	T	2-Hexanone	1.166	1.127	3.3	90	0.00
60	T	Dibromochloromethane	0.515	0.482	6.4	88	0.00
61	T	1,2-Dibromoethane	0.549	0.512	6.7	88	0.00
62	T	Butyl Acetate	1.288	1.247	3.2	90	0.00
63	T	n-Octane	0.422	0.382	9.5	89	0.00
64	T	Tetrachloroethene	0.450	0.402	10.7	89	0.00
65	T	Chlorobenzene	1.315	1.176	10.6	87	0.00
66	T	Ethylbenzene	2.390	2.191	8.3	88	0.00
67	T	m- & p-Xylene	1.538	1.425	7.3	89	0.00
68	T	Bromoform	0.319	0.314	1.6	89	0.00
69	T	Styrene	1.387	1.312	5.4	88	0.00
70	T	o-Xylene	1.663	1.554	6.6	89	0.00
71	T	n-Nonane	1.028	0.949	7.7	88	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.743	6.4	88	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.619	-3.7	99	0.00
74	T	Cumene	2.142	1.988	7.2	89	0.00
75	T	alpha-Pinene	1.139	1.048	8.0	89	0.00
76	T	n-Propylbenzene	2.877	2.682	6.8	88	0.00
77	T	3-Ethyltoluene	2.349	2.215	5.7	89	0.00
78	T	4-Ethyltoluene	2.172	2.007	7.6	88	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.786	6.6	89	0.00
80	T	alpha-Methylstyrene	1.020	0.983	3.6	88	0.00
81	T	2-Ethyltoluene	2.366	2.205	6.8	88	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.793	5.6	90	0.00
83	T	n-Decane	1.108	1.027	7.3	89	0.00
84	T	Benzyl Chloride	1.805	1.759	2.5	88	0.00
85	T	1,3-Dichlorobenzene	1.007	0.932	7.4	89	0.00
86	T	1,4-Dichlorobenzene	0.977	0.908	7.1	88	0.00
87	T	sec-Butylbenzene	2.519	2.345	6.9	89	0.00
88	T	p-Isopropyltoluene	2.033	1.896	6.7	88	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.736	6.4	90	0.00
90	T	1,2-Dichlorobenzene	0.939	0.874	6.9	89	0.00
91	T	d-Limonene	0.792	0.772	2.5	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.322	-2.9	90	0.00
93	T	n-Undecane	1.035	0.945	8.7	91	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.182	2.7	94	0.00
95	T	Naphthalene	2.210	2.240	-1.4	94	0.00
96	T	n-Dodecane	0.745	0.677	9.1	94	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.301	0.7	97	0.00

LM 12/12/06

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

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Data Path : J:\MS08\Data\2006_012\12\
Data File : 12120603.D
Acq On : 12 Dec 2006 11:05
Operator : LM
Sample : 1ng TO-15 STD
Misc : S15-12050601/S15-12050605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 12 13:24:59 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	92	-0.01
2	T	Propene	1.223	1.550	-26.7	95	0.02
3	T	Dichlorodifluoromethane	2.559	2.915	-13.9	91	0.02
4	T	Chloromethane	2.080	2.209	-6.2	89	0.00
5	T	Freon 114	0.675	0.859	-27.3	98	0.02
6	T	Vinyl Chloride	1.418	1.654	-16.6	85	0.01
7	T	1,3-Butadiene	1.375	1.493	-8.6	87	0.01
8	T	Bromomethane	1.051	1.141	-8.6	88	0.01
9	T	Chloroethane	0.974	1.043	-7.1	87	0.01
10	T	Ethanol	0.753	0.580	23.0	94	-0.01
11	T	Acetonitrile	2.237	2.086	6.8	91	0.01
12	T	Acrolein	0.731	0.677	7.4	87	0.01
13	T	Acetone	1.046	1.298	-24.1	104	0.00
14	T	Trichlorofluoromethane	1.741	1.819	-4.5	90	0.00
15	T	Isopropanol	3.201	3.481	-8.7	91	-0.02
16	T	Acrylonitrile	1.580	1.494	5.4	93	0.00
17	T	1,1-Dichloroethene	1.172	1.184	-1.0	85	0.00
18	T	tert-Butanol	2.959	3.426	-15.8	90	0.00
19	T	Methylene Chloride	1.345	1.450	-7.8	92	0.00
20	T	Allyl Chloride	1.722	1.616	6.2	87	0.00
21	T	Trichlorotrifluoroethane	0.683	0.762	-11.6	90	0.01
22	T	Carbon Disulfide	4.831	5.255	-8.8	90	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.913	-1.7	90	0.00
24	T	1,1-Dichloroethane	1.910	1.971	-3.2	90	-0.01
25	T	Methyl tert-Butyl Ether	3.036	3.376	-11.2	88	0.00
26	T	Vinyl Acetate	0.253	0.290	-14.6	91	0.00
27	T	2-Butanone	0.805	0.855	-6.2	95	0.00
28	T	cis-1,2-Dichloroethene	1.761	1.727	1.9	86	-0.02
29	T	Diisopropyl Ether	0.832	0.906	-8.9	87	0.00
30	T	Ethyl Acetate	0.404	0.390	3.5	81	-0.01
31	T	n-Hexane	1.584	1.875	-18.4	91	0.00
32	T	Chloroform	1.869	1.991	-6.5	86	-0.02
33	S	1,2-Dichloroethane-d4(SS1)	1.877	2.010	-7.1	94	-0.01
34	T	Tetrahydrofuran	0.759	0.770	-1.4	87	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.353	-7.3	87	0.00
36	T	1,2-Dichloroethane	1.709	1.745	-2.1	88	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	92	-0.01
38	T	1,1,1-Trichloroethane	0.411	0.423	-2.9	90	-0.01
39	T	Isopropyl Acetate	0.169	0.158	6.5	83	0.00
40	T	1-Butanol	0.202	0.141	30.2#	96	0.01
41	T	Benzene	1.053	1.058	-0.5	84	-0.01
42	T	Carbon Tetrachloride	0.336	0.330	1.8	90	-0.01
43	T	Cyclohexane	0.367	0.395	-7.6	90	-0.01
44	T	tert-Amyl Methyl Ether	0.728	0.740	-1.6	88	0.00
45	T	1,2-Dichloropropane	0.268	0.262	2.2	88	-0.01
46	T	Bromodichloromethane	0.361	0.357	1.1	91	-0.01
47	T	Trichloroethene	0.238	0.234	1.7	89	-0.01
48	T	1,4-Dioxane	0.207	0.203	1.9	91	0.00
49	T	Isooctane	0.987	1.015	-2.8	87	0.00
50	T	Methyl Methacrylate	0.102	0.099	2.9	91	-0.01
51	T	n-Heptane	0.256	0.261	-2.0	88	0.00

LM 12/12/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\12\
Data File : 12120603.D
Acq On : 12 Dec 2006 11:05
Operator : LM
Sample : 1ng TO-15 STD
Misc : S15-12050601/S15-12050605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 12 13:24:59 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.428	5.9	85	0.00
53	T	4-Methyl-2-pentanone	0.246	0.234	4.9	86	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.408	3.8	88	-0.01
55	T	1,1,2-Trichloroethane	0.261	0.252	3.4	88	-0.01
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	94	0.00
57	S	Toluene-d8 (SS2)	2.035	2.003	1.6	92	-0.01
58	T	Toluene	2.041	2.028	0.6	86	0.00
59	T	2-Hexanone	1.166	1.084	7.0	86	0.00
60	T	Dibromochloromethane	0.515	0.487	5.4	88	-0.01
61	T	1,2-Dibromoethane	0.549	0.524	4.6	86	-0.01
62	T	Butyl Acetate	1.288	1.156	10.2	83	0.00
63	T	n-Octane	0.422	0.408	3.3	84	0.00
64	T	Tetrachloroethene	0.450	0.425	5.6	82	0.00
65	T	Chlorobenzene	1.315	1.266	3.7	84	-0.01
66	T	Ethylbenzene	2.390	2.292	4.1	84	-0.01
67	T	m- & p-Xylene	1.538	1.511	1.8	85	0.00
68	T	Bromoform	0.319	0.289	9.4	87	0.00
69	T	Styrene	1.387	1.274	8.1	84	0.00
70	T	o-Xylene	1.663	1.662	0.1	88	-0.01
71	T	n-Nonane	1.028	0.991	3.6	84	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.731	7.9	84	-0.01
73	S	Bromofluorobenzene (SS3)	0.597	0.610	-2.2	95	0.00
74	T	Cumene	2.142	2.064	3.6	85	0.00
75	T	alpha-Pinene	1.139	1.071	6.0	82	0.00
76	T	n-Propylbenzene	2.877	2.802	2.6	86	0.00
77	T	3-Ethyltoluene	2.349	2.273	3.2	87	0.00
78	T	4-Ethyltoluene	2.172	2.107	3.0	84	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.841	3.8	84	0.00
80	T	alpha-Methylstyrene	1.020	0.895	12.3	83	0.00
81	T	2-Ethyltoluene	2.366	2.265	4.3	84	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.816	4.4	84	-0.01
83	T	n-Decane	1.108	1.056	4.7	84	0.00
84	T	Benzyl Chloride	1.805	1.584	12.2	82	-0.01
85	T	1,3-Dichlorobenzene	1.007	0.966	4.1	85	0.00
86	T	1,4-Dichlorobenzene	0.977	0.949	2.9	86	0.00
87	T	sec-Butylbenzene	2.519	2.422	3.9	84	0.00
88	T	p-Isopropyltoluene	2.033	1.950	4.1	84	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.745	5.9	83	0.00
90	T	1,2-Dichlorobenzene	0.939	0.891	5.1	84	0.00
91	T	d-Limonene	0.792	0.707	10.7	83	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.262	16.3	85	0.00
93	T	n-Undecane	1.035	0.932	10.0	78	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.152	18.7	73	0.00
95	T	Naphthalene	2.210	1.804	18.4	77	0.00
96	T	n-Dodecane	0.745	0.719	3.5	81	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.273	9.9	83	0.00

LM 12/12/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\12\
Data File : 12120613.D
Acq On : 12 Dec 2006 20:08
Operator : LM
Sample : 25ng TO-15 CCV Std
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 13 12:05:52 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.00
2	T	Propene	1.223	0.980	19.9	93	0.00
3	T	Dichlorodifluoromethane	2.559	2.279	10.9	93	0.00
4	T	Chloromethane	2.080	1.824	12.3	92	0.00
5	T	Freon 114	0.675	0.592	12.3	95	0.00
6	T	Vinyl Chloride	1.418	1.138	19.7	89	0.00
7	T	1,3-Butadiene	1.375	1.179	14.3	93	0.00
8	T	Bromomethane	1.051	0.898	14.6	94	0.00
9	T	Chloroethane	0.974	0.850	12.7	94	0.00
10	T	Ethanol	0.753	0.875	-16.2	92	0.00
11	T	Acetonitrile	2.237	2.250	-0.6	91	0.00
12	T	Acrolein	0.731	0.674	7.8	92	0.00
13	T	Acetone	1.046	0.795	24.0	94	0.00
14	T	Trichlorofluoromethane	1.741	1.598	8.2	93	0.00
15	T	Isopropanol	3.201	3.230	-0.9	93	0.00
16	T	Acrylonitrile	1.580	1.551	1.8	92	0.00
17	T	1,1-Dichloroethene	1.172	1.074	8.4	93	0.00
18	T	tert-Butanol	2.959	2.762	6.7	93	0.00
19	T	Methylene Chloride	1.345	1.200	10.8	94	0.00
20	T	Allyl Chloride	1.722	1.654	3.9	92	0.00
21	T	Trichlorotrifluoroethane	0.683	0.510	25.3	94	0.00
22	T	Carbon Disulfide	4.831	4.287	11.3	94	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.713	8.9	93	0.00
24	T	1,1-Dichloroethane	1.910	1.744	8.7	91	0.00
25	T	Methyl tert-Butyl Ether	3.036	2.512	17.3	94	0.00
26	T	Vinyl Acetate	0.253	0.239	5.5	97	0.00
27	T	2-Butanone	0.805	0.734	8.8	94	0.00
28	T	cis-1,2-Dichloroethene	1.761	1.612	8.5	92	0.00
29	T	Diisopropyl Ether	0.832	0.732	12.0	95	0.00
30	T	Ethyl Acetate	0.404	0.358	11.4	94	0.00
31	T	n-Hexane	1.584	1.267	20.0	95	0.00
32	T	Chloroform	1.869	1.683	10.0	93	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.873	0.2	98	0.00
34	T	Tetrahydrofuran	0.759	0.669	11.9	93	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.111	11.9	95	0.00
36	T	1,2-Dichloroethane	1.709	1.571	8.1	94	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	99	0.00
38	T	1,1,1-Trichloroethane	0.411	0.369	10.2	94	0.00
39	T	Isopropyl Acetate	0.169	0.159	5.9	94	0.00
40	T	1-Butanol	0.202	0.263	-30.2#	94	0.00
41	T	Benzene	1.053	0.923	12.3	94	0.00
42	T	Carbon Tetrachloride	0.336	0.314	6.5	94	0.00
43	T	Cyclohexane	0.367	0.317	13.6	95	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.671	7.8	95	0.00
45	T	1,2-Dichloropropane	0.268	0.246	8.2	93	0.00
46	T	Bromodichloromethane	0.361	0.350	3.0	94	0.00
47	T	Trichloroethene	0.238	0.221	7.1	95	0.00
48	T	1,4-Dioxane	0.207	0.205	1.0	95	0.00
49	T	Isooctane	0.987	0.872	11.7	93	0.00
50	T	Methyl Methacrylate	0.102	0.102	0.0	95	0.00
51	T	n-Heptane	0.256	0.227	11.3	93	0.00

LM 12/18/06

103

Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\12\
Data File : 12120613.D
Acq On : 12 Dec 2006 20:08
Operator : LM
Sample : 25ng TO-15 CCV Std
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 13 12:05:52 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.434	4.6	94	0.00
53	T	4-Methyl-2-pentanone	0.246	0.239	2.8	93	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.406	4.2	92	0.00
55	T	1,1,2-Trichloroethane	0.261	0.244	6.5	93	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	99	0.00
57	S	Toluene-d8 (SS2)	2.035	1.989	2.3	97	0.00
58	T	Toluene	2.041	1.852	9.3	93	0.00
59	T	2-Hexanone	1.166	1.121	3.9	93	0.00
60	T	Dibromochloromethane	0.515	0.493	4.3	93	0.00
61	T	1,2-Dibromoethane	0.549	0.519	5.5	93	0.00
62	T	Butyl Acetate	1.288	1.241	3.6	92	0.00
63	T	n-Octane	0.422	0.383	9.2	93	0.00
64	T	Tetrachloroethene	0.450	0.410	8.9	94	0.00
65	T	Chlorobenzene	1.315	1.214	7.7	93	0.00
66	T	Ethylbenzene	2.390	2.233	6.6	93	0.00
67	T	m- & p-Xylene	1.538	1.458	5.2	94	0.00
68	T	Bromoform	0.319	0.319	0.0	94	0.00
69	T	Styrene	1.387	1.353	2.5	94	0.00
70	T	o-Xylene	1.663	1.579	5.1	94	0.00
71	T	n-Nonane	1.028	0.963	6.3	92	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.756	4.8	92	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.616	-3.2	101	0.00
74	T	Cumene	2.142	2.025	5.5	94	0.00
75	T	alpha-Pinene	1.139	1.064	6.6	93	0.00
76	T	n-Propylbenzene	2.877	2.747	4.5	93	0.00
77	T	3-Ethyltoluene	2.349	2.239	4.7	93	0.00
78	T	4-Ethyltoluene	2.172	2.083	4.1	94	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.838	3.9	94	0.00
80	T	alpha-Methylstyrene	1.020	1.006	1.4	93	0.00
81	T	2-Ethyltoluene	2.366	2.267	4.2	94	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.831	3.6	95	0.00
83	T	n-Decane	1.108	1.044	5.8	93	0.00
84	T	Benzyl Chloride	1.805	1.806	-0.1	93	0.00
85	T	1,3-Dichlorobenzene	1.007	0.958	4.9	94	0.00
86	T	1,4-Dichlorobenzene	0.977	0.931	4.7	93	0.00
87	T	sec-Butylbenzene	2.519	2.396	4.9	94	0.00
88	T	p-Isopropyltoluene	2.033	1.962	3.5	95	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.774	4.3	95	0.00
90	T	1,2-Dichlorobenzene	0.939	0.893	4.9	94	0.00
91	T	d-Limonene	0.792	0.782	1.3	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.328	-4.8	95	0.00
93	T	n-Undecane	1.035	0.935	9.7	93	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.184	1.6	99	0.00
95	T	Naphthalene	2.210	2.241	-1.4	97	0.00
96	T	n-Dodecane	0.745	0.655	12.1	94	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.304	-0.3	101	0.00

LM 12/18/06

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

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603371

Data not evaluated

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: 12120601.D
Date Analyzed: 12/12/06
Time Analyzed: 08:48

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	405228	9.07	1748189	11.00	978386	15.82
	Upper Limit	567319	9.40	2447465	11.33	1369740	16.15
	Lower Limit	243137	8.74	1048913	10.67	587032	15.49
	Client Sample ID						
01	Method Blank	407436	9.04	1963942	10.98	1037729	15.81
02	Lab Control Sample	393832	9.06	1746786	11.00	968778	15.82
03	Duplicate Lab Control Sample	398397	9.06	1759784	11.00	987629	15.82
04	WDI-VW-29-S-12-06-06	427890	9.04	2048728	10.98	1079455	15.81
05	WDI-VW-29-I-12-06-06	405837	9.04	1559441	10.98	988435	15.81
06	WDI-VW-29-D-12-06-06	417118	9.04	1998216	10.98	1059184	15.81
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

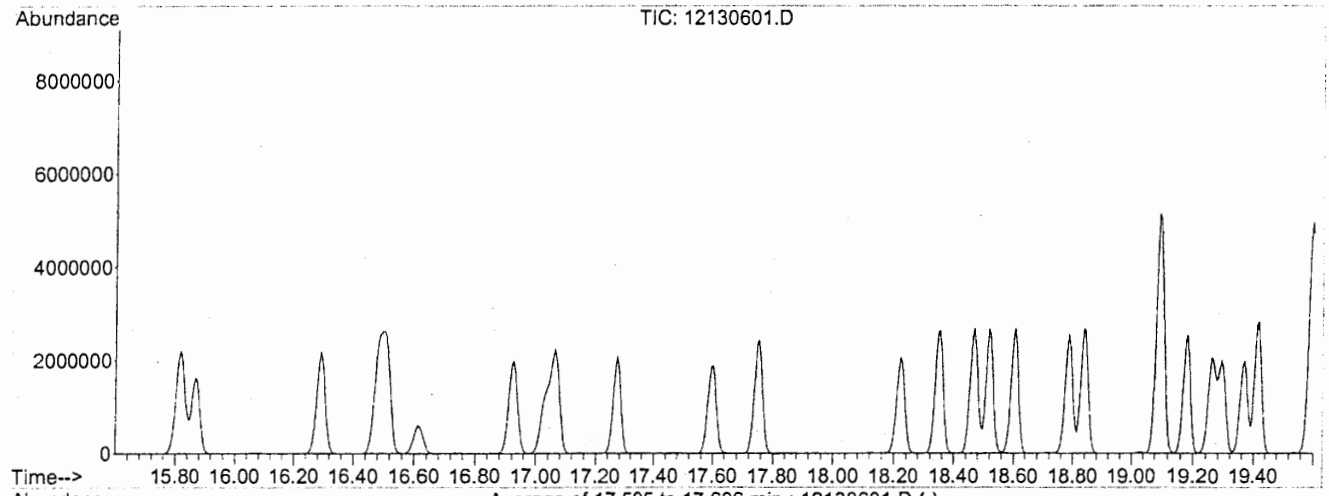
Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

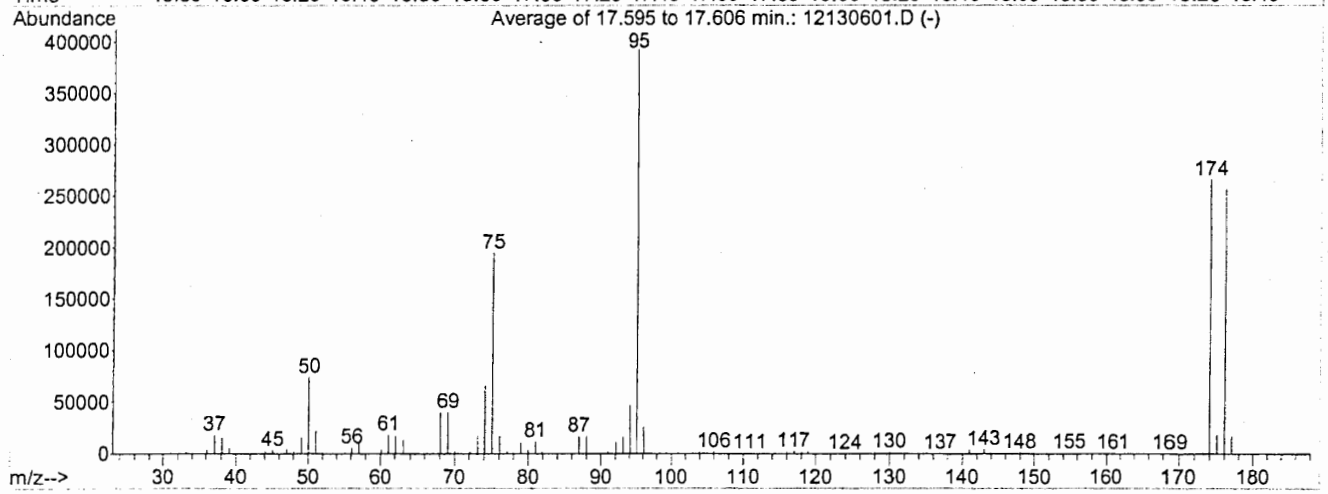
Verified by: MJ Date: 12/22/06

Data Path : J:\MS08\Data\2006_012\13\
Data File : 12130601.D
Acq On : 13 Dec 2006 8:30
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2488

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	73909	PASS
75	95	30	66	49.6	194773	PASS
95	95	100	100	100.0	392426	PASS
96	95	5	9	6.5	25421	PASS
173	174	0.00	2	0.3	735	PASS
174	95	50	120	67.7	265493	PASS
175	174	4	9	6.9	18421	PASS
176	174	93	101	96.8	256896	PASS
177	176	5	9	6.5	16638	PASS

LM 12/14/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\13\
Data File : 12130601.D
Acq On : 13 Dec 2006 8:30
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

All Targets ok
%D ≤ 30.0%
RRFs ≥ 0.05

Quant Time: Dec 14 10:03:02 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	88	0.00
2	T	Propene	1.223	1.043	14.7	89	0.00
3	T	Dichlorodifluoromethane	2.559	2.420	5.4	90	0.01
4	T	Chloromethane	2.080	1.929	7.3	88	0.00
5	T	Freon 114	0.675	0.601	11.0	87	0.01
6	T	Vinyl Chloride	1.418	1.133	20.1	80	0.00
7	T	1,3-Butadiene	1.375	1.222	11.1	88	0.01
8	T	Bromomethane	1.051	0.922	12.3	87	0.01
9	T	Chloroethane	0.974	0.876	10.1	88	0.01
10	T	Ethanol	0.753	0.896	-19.0	86	0.02
11	T	Acetonitrile	2.237	2.366	-5.8	87	0.02
12	T	Acrolein	0.731	0.688	5.9	85	0.02
13	T	Acetone	1.046	0.821	21.5	88	0.01
14	T	Trichlorofluoromethane	1.741	1.650	5.2	87	0.01
15	T	Isopropanol	3.201	3.368	-5.2	88	0.01
16	T	Acrylonitrile	1.580	1.590	-0.6	86	0.01
17	T	1,1-Dichloroethene	1.172	1.088	7.2	85	0.00
18	T	tert-Butanol	2.959	2.854	3.5	87	0.02
19	T	Methylene Chloride	1.345	1.213	9.8	86	0.01
20	T	Allyl Chloride	1.722	1.711	0.6	86	0.00
21	T	Trichlorotrifluoroethane	0.683	0.524	23.3	88	0.00
22	T	Carbon Disulfide	4.831	4.329	10.4	86	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.735	7.8	85	0.00
24	T	1,1-Dichloroethane	1.910	1.782	6.7	85	0.01
25	T	Methyl tert-Butyl Ether	3.036	2.622	13.6	89	0.00
26	T	Vinyl Acetate	0.253	0.237	6.3	87	0.00
27	T	2-Butanone	0.805	0.746	7.3	86	0.01
28	T	cis-1,2-Dichloroethene	1.761	1.636	7.1	85	0.00
29	T	Diisopropyl Ether	0.832	0.742	10.8	87	0.00
30	T	Ethyl Acetate	0.404	0.363	10.1	86	0.00
31	T	n-Hexane	1.584	1.304	17.7	88	0.00
32	T	Chloroform	1.869	1.736	7.1	87	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.939	-3.3	92	0.00
34	T	Tetrahydrofuran	0.759	0.687	9.5	87	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.126	10.7	87	0.00
36	T	1,2-Dichloroethane	1.709	1.608	5.9	87	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	89	0.00
38	T	1,1,1-Trichloroethane	0.411	0.378	8.0	86	0.00
39	T	Isopropyl Acetate	0.169	0.161	4.7	86	0.00
40	T	1-Butanol	0.202	0.261	-29.2	84	0.00
41	T	Benzene	1.053	0.933	11.4	85	0.00
42	T	Carbon Tetrachloride	0.336	0.318	5.4	86	0.00
43	T	Cyclohexane	0.367	0.318	13.4	86	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.675	7.3	86	0.00
45	T	1,2-Dichloropropane	0.268	0.247	7.8	84	0.00
46	T	Bromodichloromethane	0.361	0.355	1.7	86	0.00
47	T	Trichloroethene	0.238	0.221	7.1	85	0.00
48	T	1,4-Dioxane	0.207	0.202	2.4	84	0.00
49	T	Isooctane	0.987	0.880	10.8	85	0.00
50	T	Methyl Methacrylate	0.102	0.100	2.0	85	0.00
51	T	n-Heptane	0.256	0.226	11.7	83	0.00

LM 12/14/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\13\
Data File : 12130601.D
Acq On : 13 Dec 2006 8:30
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 14 10:03:02 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.432	5.1	84	0.00
53	T	4-Methyl-2-pentanone	0.246	0.238	3.3	84	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.409	3.5	84	0.00
55	T	1,1,2-Trichloroethane	0.261	0.243	6.9	83	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	89	0.00
57	S	Toluene-d8 (SS2)	2.035	1.985	2.5	87	0.00
58	T	Toluene	2.041	1.828	10.4	83	0.00
59	T	2-Hexanone	1.166	1.139	2.3	85	0.00
60	T	Dibromochloromethane	0.515	0.488	5.2	83	0.00
61	T	1,2-Dibromoethane	0.549	0.514	6.4	83	0.00
62	T	Butyl Acetate	1.288	1.260	2.2	84	0.00
63	T	n-Octane	0.422	0.385	8.8	84	0.00
64	T	Tetrachloroethene	0.450	0.401	10.9	83	0.00
65	T	Chlorobenzene	1.315	1.183	10.0	82	0.00
66	T	Ethylbenzene	2.390	2.197	8.1	82	0.00
67	T	m- & p-Xylene	1.538	1.436	6.6	83	0.00
68	T	Bromoform	0.319	0.313	1.9	83	0.00
69	T	Styrene	1.387	1.319	4.9	82	0.00
70	T	o-Xylene	1.663	1.563	6.0	83	0.00
71	T	n-Nonane	1.028	0.965	6.1	83	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.745	6.2	82	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.611	-2.3	91	0.00
74	T	Cumene	2.142	1.988	7.2	83	0.00
75	T	alpha-Pinene	1.139	1.043	8.4	82	0.00
76	T	n-Propylbenzene	2.877	2.701	6.1	83	0.00
77	T	3-Ethyltoluene	2.349	2.224	5.3	83	0.00
78	T	4-Ethyltoluene	2.172	2.009	7.5	82	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.789	6.5	82	0.00
80	T	alpha-Methylstyrene	1.020	0.979	4.0	81	0.00
81	T	2-Ethyltoluene	2.366	2.211	6.6	82	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.800	5.3	84	0.00
83	T	n-Decane	1.108	1.026	7.4	82	0.00
84	T	Benzyl Chloride	1.805	1.781	1.3	82	0.00
85	T	1,3-Dichlorobenzene	1.007	0.930	7.6	82	0.00
86	T	1,4-Dichlorobenzene	0.977	0.902	7.7	81	0.00
87	T	sec-Butylbenzene	2.519	2.361	6.3	83	0.00
88	T	p-Isopropyltoluene	2.033	1.924	5.4	83	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.754	5.4	84	0.00
90	T	1,2-Dichlorobenzene	0.939	0.871	7.2	83	0.00
91	T	d-Limonene	0.792	0.777	1.9	83	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.319	-1.9	83	0.00
93	T	n-Undecane	1.035	0.935	9.7	83	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.182	2.7	88	0.00
95	T	Naphthalene	2.210	2.254	-2.0	88	0.00
96	T	n-Dodecane	0.745	0.679	8.9	88	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.302	0.3	90	0.00

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

LM 12/14/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\13\
Data File : 12130603.D
Acq On : 13 Dec 2006 10:16
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12050601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 10:38:37 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
Response via : Initial Calibration

all Targets OK
%D ≤ 30.0%
RRFs ≥ 0.05

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	85	-0.02	
2	T	Propene	1.223	1.514	-23.8	86	0.02	
3	T	Dichlorodifluoromethane	2.559	2.869	-12.1	83	0.01	
4	T	Chloromethane	2.080	2.273	-9.3	85	0.00	
5	T	Freon 114	0.675	0.836	-23.9	88	0.02	
6	T	Vinyl Chloride	1.418	1.665	-17.4	80	0.00	
7	T	1,3-Butadiene	1.375	1.418	-3.1	76	0.01	
8	T	Bromomethane	1.051	1.127	-7.2	81	0.01	
9	T	Chloroethane	0.974	1.045	-7.3	81	0.01	
10	T	Ethanol	0.753	0.508	32.5#	76	-0.01	NTC
11	T	Acetonitrile	2.237	2.025	9.5	82	0.00	
12	T	Acrolein	0.731	0.676	7.5	81	0.00	
13	T	Acetone	1.046	1.247	-19.2	93	0.00	
14	T	Trichlorofluoromethane	1.741	1.784	-2.5	82	0.00	
15	T	Isopropanol	3.201	3.393	-6.0	82	-0.02	
16	T	Acrylonitrile	1.580	1.451	8.2	84	-0.01	
17	T	1,1-Dichloroethene	1.172	1.155	1.5	77	0.00	
18	T	tert-Butanol	2.959	3.457	-16.8	84	0.00	
19	T	Methylene Chloride	1.345	1.430	-6.3	84	0.00	
20	T	Allyl Chloride	1.722	1.597	7.3	80	0.00	
21	T	Trichlorotrifluoroethane	0.683	0.747	-9.4	82	0.00	
22	T	Carbon Disulfide	4.831	5.126	-6.1	81	0.00	
23	T	trans-1,2-Dichloroethene	1.881	1.867	0.7	81	0.00	
24	T	1,1-Dichloroethane	1.910	2.063	-8.0	87	-0.01	
25	T	Methyl tert-Butyl Ether	3.036	3.311	-9.1	80	0.00	
26	T	Vinyl Acetate	0.253	0.279	-10.3	81	0.00	
27	T	2-Butanone	0.805	0.801	0.5	83	0.00	
28	T	cis-1,2-Dichloroethene	1.761	1.730	1.8	80	-0.01	
29	T	Diisopropyl Ether	0.832	0.922	-10.8	82	0.00	
30	T	Ethyl Acetate	0.404	0.406	-0.5	79	0.00	
31	T	n-Hexane	1.584	1.902	-20.1	86	0.00	
32	T	Chloroform	1.869	2.044	-9.4	82	-0.02	
33	S	1,2-Dichloroethane-d4(SS1)	1.877	2.032	-8.3	88	-0.01	
34	T	Tetrahydrofuran	0.759	0.761	-0.3	80	0.00	
35	T	Ethyl tert-Butyl Ether	1.261	1.335	-5.9	80	-0.01	
36	T	1,2-Dichloroethane	1.709	1.823	-6.7	86	-0.01	
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	85	0.00	
38	T	1,1,1-Trichloroethane	0.411	0.417	-1.5	82	-0.01	
39	T	Isopropyl Acetate	0.169	0.160	5.3	78	0.00	
40	T	1-Butanol	0.202	0.127	37.1#	80	0.00	NTC
41	T	Benzene	1.053	1.055	-0.2	77	0.00	
42	T	Carbon Tetrachloride	0.336	0.342	-1.8	86	-0.01	
43	T	Cyclohexane	0.367	0.392	-6.8	83	0.00	
44	T	tert-Amyl Methyl Ether	0.728	0.742	-1.9	81	0.00	
45	T	1,2-Dichloropropane	0.268	0.268	0.0	83	-0.01	
46	T	Bromodichloromethane	0.361	0.350	3.0	83	-0.01	
47	T	Trichloroethene	0.238	0.239	-0.4	84	0.00	
48	T	1,4-Dioxane	0.207	0.193	6.8	80	0.00	
49	T	Isooctane	0.987	1.027	-4.1	82	0.00	
50	T	Methyl Methacrylate	0.102	0.090	11.8	77	0.00	
51	T	n-Heptane	0.256	0.262	-2.3	82	0.00	

NTC = Non Target compound

LM
12/21/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\13\
Data File : 12130603.D
Acq On : 13 Dec 2006 10:16
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12050601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 10:38:37 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
Response via : Initial Calibration

✓ all Targets OK

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	0.455	0.446	2.0	81	0.00
53	T	4-Methyl-2-pentanone	0.246	0.237	3.7	81	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.394	7.1	79	0.00
55	T	1,1,2-Trichloroethane	0.261	0.254	2.7	82	-0.01
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	88	0.00
57	S	Toluene-d8 (SS2)	2.035	1.990	2.2	86	0.00
58	T	Toluene	2.041	2.006	1.7	80	0.00
59	T	2-Hexanone	1.166	1.074	7.9	80	0.00
60	T	Dibromochloromethane	0.515	0.473	8.2	80	-0.01
61	T	1,2-Dibromoethane	0.549	0.530	3.5	82	0.00
62	T	Butyl Acetate	1.288	1.185	8.0	80	0.00
63	T	n-Octane	0.422	0.406	3.8	79	0.00
64	T	Tetrachloroethene	0.450	0.447	0.7	81	0.00
65	T	Chlorobenzene	1.315	1.275	3.0	80	0.00
66	T	Ethylbenzene	2.390	2.290	4.2	79	0.00
67	T	m- & p-Xylene	1.538	1.498	2.6	79	0.00
68	T	Bromoform	0.319	0.281	11.9	80	0.00
69	T	Styrene	1.387	1.289	7.1	80	0.00
70	T	o-Xylene	1.663	1.620	2.6	80	0.00
71	T	n-Nonane	1.028	0.984	4.3	79	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.751	5.4	81	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.614	-2.8	90	0.00
74	T	Cumene	2.142	2.077	3.0	80	0.00
75	T	alpha-Pinene	1.139	1.050	7.8	76	0.00
76	T	n-Propylbenzene	2.877	2.748	4.5	79	0.00
77	T	3-Ethyltoluene	2.349	2.234	4.9	81	0.00
78	T	4-Ethyltoluene	2.172	2.106	3.0	79	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.860	2.8	80	0.00
80	T	alpha-Methylstyrene	1.020	0.899	11.9	78	0.00
81	T	2-Ethyltoluene	2.366	2.277	3.8	79	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.857	2.3	81	0.00
83	T	n-Decane	1.108	1.069	3.5	80	0.00
84	T	Benzyl Chloride	1.805	1.581	12.4	77	0.00
85	T	1,3-Dichlorobenzene	1.007	0.964	4.3	80	-0.01
86	T	1,4-Dichlorobenzene	0.977	0.918	6.0	78	0.00
87	T	sec-Butylbenzene	2.519	2.440	3.1	79	0.00
88	T	p-Isopropyltoluene	2.033	1.952	4.0	79	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.795	3.2	81	0.00
90	T	1,2-Dichlorobenzene	0.939	0.915	2.6	81	0.00
91	T	d-Limonene	0.792	0.716	9.6	79	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.255	18.5	78	0.00 NTC
93	T	n-Undecane	1.035	0.952	8.0	75	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.167	10.7	75	0.00
95	T	Naphthalene	2.210	1.905	13.8	76	0.00
96	T	n-Dodecane	0.745	0.729	2.1	77	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.275	9.2	78	0.00

[illegible] 12/21/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\13\
Data File : 12130617.D
Acq On : 13 Dec 2006 20:16
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 10:41:35 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
Response via : Initial Calibration

all Target on
% Dev ≤ 30%
RRF ≥ 0.05

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	83	0.00	
2	T	Propene	1.223	0.942	23.0	76	0.00	
3	T	Dichlorodifluoromethane	2.559	2.246	12.2	79	0.00	
4	T	Chloromethane	2.080	1.794	13.8	78	0.00	
5	T	Freon 114	0.675	0.574	15.0	79	0.00	
6	T	Vinyl Chloride	1.418	1.125	20.7	76	0.00	
7	T	1,3-Butadiene	1.375	1.125	18.2	77	0.00	
8	T	Bromomethane	1.051	0.866	17.6	78	0.00	
9	T	Chloroethane	0.974	0.824	15.4	79	0.00	
10	T	Ethanol	0.753	0.860	-14.2	78	0.00	
11	T	Acetonitrile	2.237	2.225	0.5	78	0.00	
12	T	Acrolein	0.731	0.667	8.8	78	0.00	
13	T	Acetone	1.046	0.791	24.4	80	0.00	
14	T	Trichlorofluoromethane	1.741	1.576	9.5	79	0.00	
15	T	Isopropanol	3.201	3.201	0.0	79	0.00	
16	T	Acrylonitrile	1.580	1.541	2.5	79	0.00	
17	T	1,1-Dichloroethene	1.172	1.066	9.0	79	0.00	
18	T	tert-Butanol	2.959	2.640	10.8	77	0.00	
19	T	Methylene Chloride	1.345	1.187	11.7	80	0.00	
20	T	Allyl Chloride	1.722	1.619	6.0	77	0.00	
21	T	Trichlorotrifluoroethane	0.683	0.492	28.0	78	0.00	
22	T	Carbon Disulfide	4.831	4.215	12.8	80	0.00	
23	T	trans-1,2-Dichloroethene	1.881	1.693	10.0	79	0.00	
24	T	1,1-Dichloroethane	1.910	1.742	8.8	79	0.00	
25	T	Methyl tert-Butyl Ether	3.036	2.440	19.6	78	0.00	
26	T	Vinyl Acetate	0.253	0.227	10.3	79	0.00	
27	T	2-Butanone	0.805	0.723	10.2	79	0.00	
28	T	cis-1,2-Dichloroethene	1.761	1.602	9.0	79	0.00	
29	T	Diisopropyl Ether	0.832	0.721	13.3	80	0.00	
30	T	Ethyl Acetate	0.404	0.354	12.4	80	0.00	
31	T	n-Hexane	1.584	1.249	21.1	80	0.00	
32	T	Chloroform	1.869	1.665	10.9	79	0.00	
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.862	0.8	84	0.00	
34	T	Tetrahydrofuran	0.759	0.672	11.5	80	0.00	
35	T	Ethyl tert-Butyl Ether	1.261	1.091	13.5	80	0.00	
36	T	1,2-Dichloroethane	1.709	1.533	10.3	79	0.00	
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	84	0.00	
38	T	1,1,1-Trichloroethane	0.411	0.367	10.7	79	0.00	
39	T	Isopropyl Acetate	0.169	0.159	5.9	80	0.00	
40	T	1-Butanol	0.202	0.265	-31.2#	80	0.00	NTC
41	T	Benzene	1.053	0.924	12.3	80	0.00	
42	T	Carbon Tetrachloride	0.336	0.310	7.7	79	0.00	
43	T	Cyclohexane	0.367	0.315	14.2	80	0.00	
44	T	tert-Amyl Methyl Ether	0.728	0.667	8.4	80	0.00	
45	T	1,2-Dichloropropane	0.268	0.247	7.8	80	0.00	
46	T	Bromodichloromethane	0.361	0.351	2.8	80	0.00	
47	T	Trichloroethene	0.238	0.220	7.6	80	0.00	
48	T	1,4-Dioxane	0.207	0.206	0.5	81	0.00	
49	T	Isooctane	0.987	0.866	12.3	79	0.00	
50	T	Methyl Methacrylate	0.102	0.102	0.0	81	0.00	
51	T	n-Heptane	0.256	0.226	11.7	79	0.00	

NTC = Non Target Compound

LM 12/21/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\13\
Data File : 12130617.D
Acq On : 13 Dec 2006 20:16
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 10:41:35 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.434	4.6	80	0.00
53	T	4-Methyl-2-pentanone	0.246	0.241	2.0	80	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.412	2.8	80	0.00
55	T	1,1,2-Trichloroethane	0.261	0.248	5.0	80	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	84	0.00
57	S	Toluene-d8 (SS2)	2.035	2.009	1.3	83	0.00
58	T	Toluene	2.041	1.869	8.4	80	0.00
59	T	2-Hexanone	1.166	1.140	2.2	80	0.00
60	T	Dibromochloromethane	0.515	0.495	3.9	80	0.00
61	T	1,2-Dibromoethane	0.549	0.524	4.6	79	0.00
62	T	Butyl Acetate	1.288	1.260	2.2	80	0.00
63	T	n-Octane	0.422	0.391	7.3	80	0.00
64	T	Tetrachloroethene	0.450	0.411	8.7	80	0.00
65	T	Chlorobenzene	1.315	1.182	10.1	77	0.00
66	T	Ethylbenzene	2.390	2.231	6.7	79	0.00
67	T	m- & p-Xylene	1.538	1.444	6.1	79	0.00
68	T	Bromoform	0.319	0.314	1.6	78	0.00
69	T	Styrene	1.387	1.325	4.5	78	0.00
70	T	o-Xylene	1.663	1.579	5.1	79	0.00
71	T	n-Nonane	1.028	0.983	4.4	80	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.755	4.9	78	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.613	-2.7	86	0.00
74	T	Cumene	2.142	2.006	6.3	79	0.00
75	T	alpha-Pinene	1.139	1.053	7.6	78	0.00
76	T	n-Propylbenzene	2.877	2.743	4.7	79	0.00
77	T	3-Ethyltoluene	2.349	2.224	5.3	79	0.00
78	T	4-Ethyltoluene	2.172	2.082	4.1	80	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.828	4.4	80	0.00
80	T	alpha-Methylstyrene	1.020	0.996	2.4	78	0.00
81	T	2-Ethyltoluene	2.366	2.255	4.7	79	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.841	3.1	81	0.00
83	T	n-Decane	1.108	1.049	5.3	79	0.00
84	T	Benzyl Chloride	1.805	1.808	-0.2	79	0.00
85	T	1,3-Dichlorobenzene	1.007	0.942	6.5	79	0.00
86	T	1,4-Dichlorobenzene	0.977	0.924	5.4	79	0.00
87	T	sec-Butylbenzene	2.519	2.403	4.6	80	0.00
88	T	p-Isopropyltoluene	2.033	1.961	3.5	80	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.805	2.6	82	0.00
90	T	1,2-Dichlorobenzene	0.939	0.891	5.1	80	0.00
91	T	d-Limonene	0.792	0.797	-0.6	81	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.326	-4.2	80	0.00
93	T	n-Undecane	1.035	0.947	8.5	80	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.189	-1.1	86	0.00
95	T	Naphthalene	2.210	2.292	-3.7	84	0.00
96	T	n-Dodecane	0.745	0.693	7.0	85	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.306	-1.0	86	0.00

12/21/06

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

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603371

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: 12130601.D
Date Analyzed: 12/13/06
Time Analyzed: 08:30

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	378805	9.06	1653276	11.00	909957	15.82
	Upper Limit	530327	9.39	2314586	11.33	1273940	16.15
	Lower Limit	227283	8.73	991966	10.67	545974	15.49
	Client Sample ID						
01	Method Blank	372053	9.04	1828674	10.98	964246	15.81
02	Lab Control Sample	367321	9.06	1631946	11.00	913174	15.82
03	Duplicate Lab Control Sample	375359	9.06	1649627	11.00	930576	15.82
04	WDI-VW-46-S-12-06-06	384636	9.05	1838488	10.98	1011352	15.82
05	WDI-VW-46-D-12-06-06	362874	9.05	1759912	10.98	971436	15.81
06	WDI-VW-46-D-12-06-06 (Dilution)	389638	9.04	1870573	10.98	1007955	15.81
07	WDI-VW-46-D-12-06-06-SC	401338	9.04	1902502	10.98	1024911	15.81
08	WDI-VW-46-D-12-06-06-SC (Dilution)	370819	9.04	1784247	10.98	968800	15.81
09	WDI-VW-46-I-12-06-06	361359	9.04	1742616	10.98	943856	15.82
10	WDI-VW-46-I-12-06-06 (Lab Duplicate)	351640	9.04	1702454	10.98	921733	15.82
11	WDI-IBM-41-12-06-06 (Dilution)	344251	9.04	1653200	10.98	899571	15.81
12	WDI-IBM-41-12-06-06	345191	9.05	1563894	10.98	858817	15.81
13	WDI-VW-46-S-12-06-06 (Dilution)	334881	9.04	1580180	10.98	863444	15.81
14	WDI-IBM-32-12-06-06	332359	9.05	1578011	10.98	869555	15.82
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.

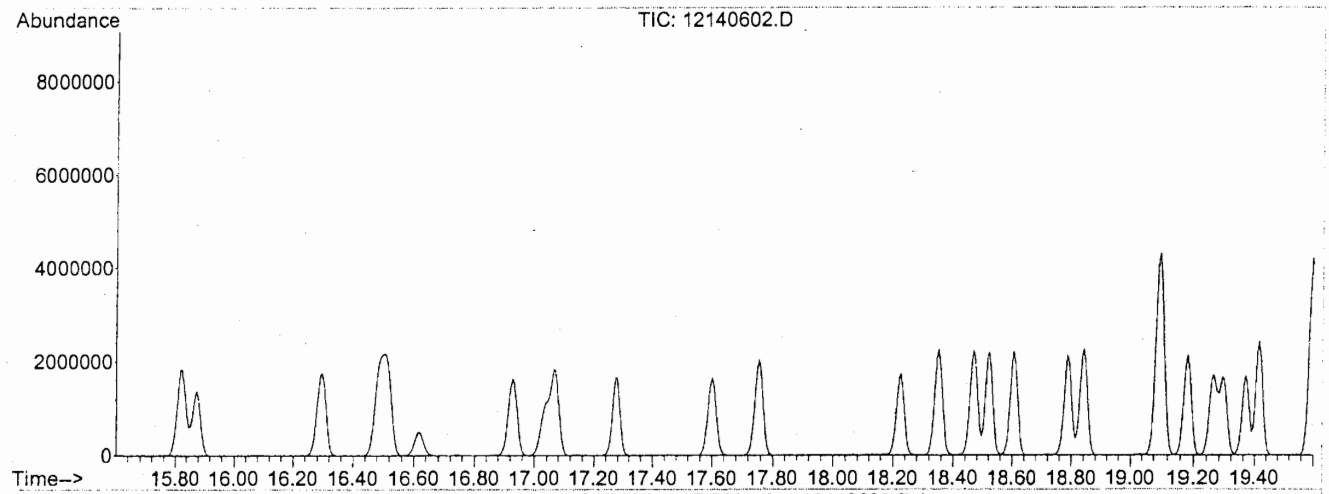
Verified by: LY Date: 12/22/06

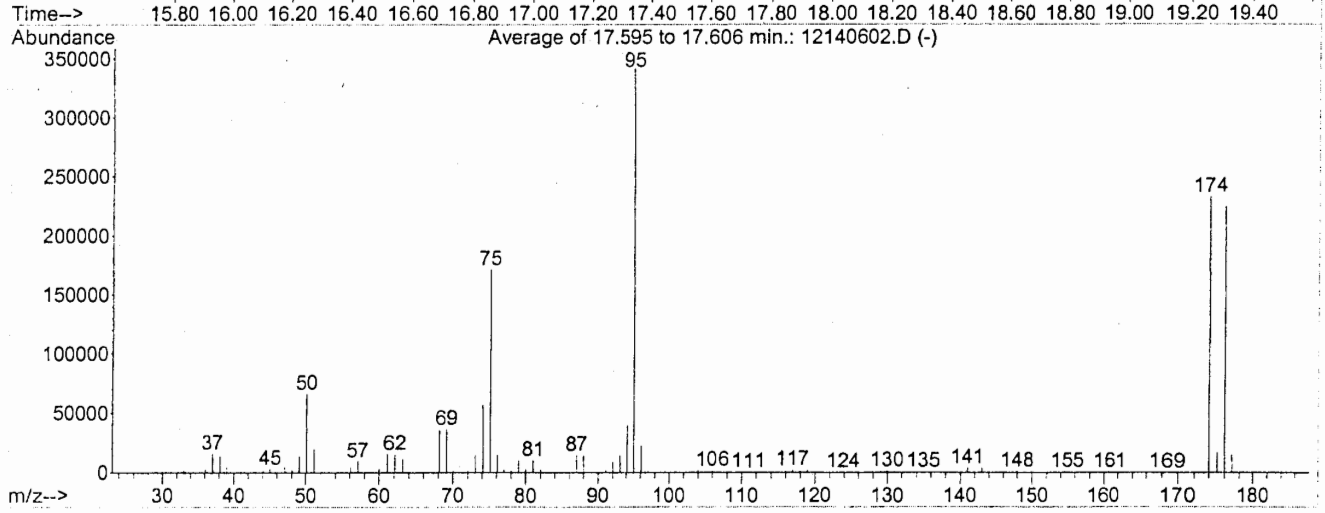
BFB

Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140602.D
Acq On : 14 Dec 2006 10:07
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.4	66064	PASS
75	95	30	66	50.2	171285	PASS
95	95	100	100	100.0	341312	PASS
96	95	5	9	6.5	22272	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	68.2	232661	PASS
175	174	4	9	7.1	16609	PASS
176	174	93	101	96.4	224256	PASS
177	176	5	9	6.7	15084	PASS

LM 12/15/06

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Evaluate Continuing Calibration Report

Data not evaluated

Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140602.D
Acq On : 14 Dec 2006 10:07
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 15 10:01:55 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	72	0.00
2	T	Propene	1.223	0.990	19.1	69	0.01
3	T	Dichlorodifluoromethane	2.559	2.283	10.8	69	0.01
4	T	Chloromethane	2.080	1.823	12.4	68	0.00
5	T	Freon 114	0.675	0.597	11.6	70	0.01
6	T	Vinyl Chloride	1.418	1.186	16.4	68	0.01
7	T	1,3-Butadiene	1.375	1.164	15.3	68	0.01
8	T	Bromomethane	1.051	0.898	14.6	69	0.01
9	T	Chloroethane	0.974	0.830	14.8	68	0.01
10	T	Ethanol	0.753	0.860	-14.2	67	0.02
11	T	Acetonitrile	2.237	2.243	-0.3	67	0.02
12	T	Acrolein	0.731	0.678	7.3	68	0.02
13	T	Acetone	1.046	0.803	23.2	70	0.01
14	T	Trichlorofluoromethane	1.741	1.610	7.5	69	0.01
15	T	Isopropanol	3.201	3.216	-0.5	68	0.02
16	T	Acrylonitrile	1.580	1.525	3.5	67	0.02
17	T	1,1-Dichloroethene	1.172	1.062	9.4	68	0.00
18	T	tert-Butanol	2.959	2.809	5.1	70	0.01
19	T	Methylene Chloride	1.345	1.170	13.0	67	0.01
20	T	Allyl Chloride	1.722	1.620	5.9	66	0.00
21	T	Trichlorotrifluoroethane	0.683	0.537	21.4	73	0.00
22	T	Carbon Disulfide	4.831	4.224	12.6	68	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.687	10.3	67	0.00
24	T	1,1-Dichloroethane	1.910	1.749	8.4	68	0.01
25	T	Methyl tert-Butyl Ether	3.036	2.651	12.7	73	0.00
26	T	Vinyl Acetate	0.253	0.239	5.5	71	0.01
27	T	2-Butanone	0.805	0.733	8.9	69	0.01
28	T	cis-1,2-Dichloroethene	1.761	1.600	9.1	67	0.01
29	T	Diisopropyl Ether	0.832	0.742	10.8	71	0.00
30	T	Ethyl Acetate	0.404	0.361	10.6	70	0.00
31	T	n-Hexane	1.584	1.326	16.3	73	0.00
32	T	Chloroform	1.869	1.694	9.4	69	0.01
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.913	-1.9	74	0.00
34	T	Tetrahydrofuran	0.759	0.688	9.4	71	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.128	10.5	71	0.00
36	T	1,2-Dichloroethane	1.709	1.558	8.8	69	0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	74	0.00
38	T	1,1,1-Trichloroethane	0.411	0.374	9.0	71	0.00
39	T	Isopropyl Acetate	0.169	0.158	6.5	70	0.00
40	T	1-Butanol	0.202	0.255	-26.2	68	0.00
41	T	Benzene	1.053	0.917	12.9	69	0.00
42	T	Carbon Tetrachloride	0.336	0.314	6.5	70	0.00
43	T	Cyclohexane	0.367	0.319	13.1	71	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.670	8.0	70	0.00
45	T	1,2-Dichloropropane	0.268	0.243	9.3	68	0.00
46	T	Bromodichloromethane	0.361	0.352	2.5	70	0.00
47	T	Trichloroethene	0.238	0.219	8.0	70	0.00
48	T	1,4-Dioxane	0.207	0.199	3.9	69	0.00
49	T	Isooctane	0.987	0.872	11.7	69	0.00
50	T	Methyl Methacrylate	0.102	0.099	2.9	69	0.00
51	T	n-Heptane	0.256	0.224	12.5	68	0.00

LM 12/15/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140602.D
Acq On : 14 Dec 2006 10:07
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 15 10:01:55 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.427	6.2	69	0.00
53	T	4-Methyl-2-pentanone	0.246	0.235	4.5	69	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.401	5.4	68	0.00
55	T	1,1,2-Trichloroethane	0.261	0.240	8.0	68	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	75	0.00
57	S	Toluene-d8 (SS2)	2.035	1.949	4.2	72	0.00
58	T	Toluene	2.041	1.783	12.6	68	0.00
59	T	2-Hexanone	1.166	1.104	5.3	69	0.00
60	T	Dibromochloromethane	0.515	0.478	7.2	68	0.00
61	T	1,2-Dibromoethane	0.549	0.504	8.2	68	0.00
62	T	Butyl Acetate	1.288	1.225	4.9	69	0.00
63	T	n-Octane	0.422	0.377	10.7	69	0.00
64	T	Tetrachloroethene	0.450	0.397	11.8	69	0.00
65	T	Chlorobenzene	1.315	1.166	11.3	68	0.00
66	T	Ethylbenzene	2.390	2.161	9.6	68	0.00
67	T	m- & p-Xylene	1.538	1.409	8.4	69	0.00
68	T	Bromoform	0.319	0.308	3.4	69	0.00
69	T	Styrene	1.387	1.313	5.3	69	0.00
70	T	o-Xylene	1.663	1.532	7.9	69	0.00
71	T	n-Nonane	1.028	0.939	8.7	68	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.737	7.2	68	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.634	-6.2	79	0.00
74	T	Cumene	2.142	1.981	7.5	69	0.00
75	T	alpha-Pinene	1.139	1.043	8.4	69	0.00
76	T	n-Propylbenzene	2.877	2.671	7.2	69	0.00
77	T	3-Ethyltoluene	2.349	2.183	7.1	69	0.00
78	T	4-Ethyltoluene	2.172	2.033	6.4	69	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.776	7.2	69	0.00
80	T	alpha-Methylstyrene	1.020	0.984	3.5	69	0.00
81	T	2-Ethyltoluene	2.366	2.214	6.4	69	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.813	4.6	71	0.00
83	T	n-Decane	1.108	1.019	8.0	69	0.00
84	T	Benzyl Chloride	1.805	1.773	1.8	69	0.00
85	T	1,3-Dichlorobenzene	1.007	0.942	6.5	70	0.00
86	T	1,4-Dichlorobenzene	0.977	0.924	5.4	70	0.00
7	T	sec-Butylbenzene	2.519	2.374	5.8	70	0.00
8	T	p-Isopropyltoluene	2.033	1.924	5.4	70	0.00
9	T	1,2,3-Trimethylbenzene	1.854	1.764	4.9	71	0.00
0	T	1,2-Dichlorobenzene	0.939	0.889	5.3	71	0.00
1	T	d-Limonene	0.792	0.784	1.0	71	0.00
2	T	1,2-Dibromo-3-Chloropropane	0.313	0.336	-7.3	73	0.00
3	T	n-Undecane	1.035	0.970	6.3	73	0.00
4	T	1,2,4-Trichlorobenzene	0.187	0.191	-2.1	77	0.00
5	T	Naphthalene	2.210	2.396	-8.4	79	0.00
6	T	n-Dodecane	0.745	0.752	-0.9	82	0.00
7	T	Hexachloro-1,3-butadiene	0.303	0.318	-5.0	80	0.00

LM 12/15/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140604.D
Acq On : 14 Dec 2006 12:11
Operator : LM
Sample : 1ng TO-15 CCV Std
Misc : S15-12050601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 10:07:07 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	70	-0.01
2	T	Propene	1.223	1.503	-22.9	71	0.02
3	T	Dichlorodifluoromethane	2.559	2.964	-15.8	71	0.02
4	T	Chloromethane	2.080	2.155	-3.6	66	0.01
5	T	Freon 114	0.675	0.849	-25.8	74	0.02
6	T	Vinyl Chloride	1.418	1.745	-23.1	69	0.01
7	T	1,3-Butadiene	1.375	1.559	-13.4	69	0.02
8	T	Bromomethane	1.051	1.091	-3.8	65	0.02
9	T	Chloroethane	0.974	1.038	-6.6	67	0.01
10	T	Ethanol	0.753	0.578	23.2	72	0.00
11	T	Acetonitrile	2.237	2.045	8.6	68	0.01
12	T	Acrolein	0.731	0.632	13.5	62	0.02
13	T	Acetone	1.046	1.255	-20.0	77	0.00
14	T	Trichlorofluoromethane	1.741	1.882	-8.1	71	0.00
15	T	Isopropanol	3.201	3.408	-6.5	68	-0.01
16	T	Acrylonitrile	1.580	1.420	10.1	68	0.00
17	T	1,1-Dichloroethene	1.172	1.158	1.2	64	0.00
18	T	tert-Butanol	2.959	3.417	-15.5	68	0.00
19	T	Methylene Chloride	1.345	1.391	-3.4	67	0.00
20	T	Allyl Chloride	1.722	1.516	12.0	63	0.00
21	T	Trichlorotrifluoroethane	0.683	0.747	-9.4	68	0.01
22	T	Carbon Disulfide	4.831	5.139	-6.4	67	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.827	2.9	66	0.00
24	T	1,1-Dichloroethane	1.910	1.995	-4.5	70	0.00
25	T	Methyl tert-Butyl Ether	3.036	3.381	-11.4	67	0.00
26	T	Vinyl Acetate	0.253	0.286	-13.0	69	0.00
27	T	2-Butanone	0.805	0.845	-5.0	72	0.00
28	T	cis-1,2-Dichloroethene	1.761	1.728	1.9	66	0.00
29	T	Diisopropyl Ether	0.832	0.961	-15.5	70	0.00
30	T	Ethyl Acetate	0.404	0.427	-5.7	68	0.00
31	T	n-Hexane	1.584	1.836	-15.9	69	0.00
32	T	Chloroform	1.869	2.032	-8.7	67	-0.02
33	S	1,2-Dichloroethane-d4(SS1)	1.877	2.055	-9.5	74	0.00
34	T	Tetrahydrofuran	0.759	0.744	2.0	65	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.342	-6.4	66	0.00
36	T	1,2-Dichloroethane	1.709	1.787	-4.6	69	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	70	0.00
38	T	1,1,1-Trichloroethane	0.411	0.418	-1.7	68	-0.01
39	T	Isopropyl Acetate	0.169	0.160	5.3	64	0.00
40	T	1-Butanol	0.202	0.129	36.1#	67	0.01 NTC
41	T	Benzene	1.053	1.062	-0.9	64	0.00
42	T	Carbon Tetrachloride	0.336	0.344	-2.4	72	0.00
43	T	Cyclohexane	0.367	0.392	-6.8	68	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.744	-2.2	67	0.00
45	T	1,2-Dichloropropane	0.268	0.269	-0.4	69	0.00
46	T	Bromodichloromethane	0.361	0.354	1.9	69	-0.01
47	T	Trichloroethene	0.238	0.241	-1.3	69	0.00
48	T	1,4-Dioxane	0.207	0.195	5.8	67	0.00
49	T	Isooctane	0.987	1.026	-4.0	67	0.00
50	T	Methyl Methacrylate	0.102	0.100	2.0	70	0.00
51	T	n-Heptane	0.256	0.256	0.0	66	0.00

LM 12/21/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140604.D
Acq On : 14 Dec 2006 12:11
Operator : LM
Sample : 1ng TO-15 CCV Std
Misc : S15-12050601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 10:07:07 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.436	4.2	66	0.00
53	T	4-Methyl-2-pentanone	0.246	0.233	5.3	65	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.403	5.0	66	0.00
55	T	1,1,2-Trichloroethane	0.261	0.250	4.2	67	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	73	0.00
57	S	Toluene-d8 (SS2)	2.035	1.969	3.2	70	0.00
58	T	Toluene	2.041	1.965	3.7	65	0.00
59	T	2-Hexanone	1.166	1.062	8.9	66	0.00
60	T	Dibromochloromethane	0.515	0.461	10.5	65	0.00
61	T	1,2-Dibromoethane	0.549	0.514	6.4	66	0.00
62	T	Butyl Acetate	1.288	1.209	6.1	68	0.00
63	T	n-Octane	0.422	0.406	3.8	66	0.00
64	T	Tetrachloroethene	0.450	0.437	2.9	66	0.00
65	T	Chlorobenzene	1.315	1.266	3.7	66	0.00
66	T	Ethylbenzene	2.390	2.251	5.8	65	0.00
67	T	m- & p-Xylene	1.538	1.459	5.1	64	0.00
68	T	Bromoform	0.319	0.286	10.3	68	0.00
69	T	Styrene	1.387	1.230	11.3	64	0.00
70	T	o-Xylene	1.663	1.609	3.2	66	0.00
71	T	n-Nonane	1.028	0.994	3.3	66	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.744	6.3	67	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.615	-3.0	75	0.00
74	T	Cumene	2.142	2.036	4.9	65	0.00
75	T	alpha-Pinene	1.139	1.056	7.3	63	0.00
76	T	n-Propylbenzene	2.877	2.732	5.0	66	0.00
77	T	3-Ethyltoluene	2.349	2.239	4.7	67	0.00
78	T	4-Ethyltoluene	2.172	2.106	3.0	66	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.815	5.1	65	0.00
80	T	alpha-Methylstyrene	1.020	0.867	15.0	63	0.00
81	T	2-Ethyltoluene	2.366	2.250	4.9	65	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.804	5.1	66	-0.01
83	T	n-Decane	1.108	1.053	5.0	66	0.00
84	T	Benzyl Chloride	1.805	1.583	12.3	64	-0.01
85	T	1,3-Dichlorobenzene	1.007	0.926	8.0	64	0.00
86	T	1,4-Dichlorobenzene	0.977	0.886	9.3	63	0.00
87	T	sec-Butylbenzene	2.519	2.415	4.1	65	0.00
88	T	p-Isopropyltoluene	2.033	1.903	6.4	64	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.750	5.6	65	0.00
90	T	1,2-Dichlorobenzene	0.939	0.885	5.8	65	0.00
91	T	d-Limonene	0.792	0.696	12.1	64	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.260	16.9	66	0.00
93	T	n-Undecane	1.035	0.935	9.7	61	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.159	15.0	60	0.00
95	T	Naphthalene	2.210	1.946	11.9	65	0.00
96	T	n-Dodecane	0.745	0.760	-2.0	67	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.298	1.7	71	0.00

LM 12/21/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140617.D
Acq On : 14 Dec 2006 21:40
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 15 08:42:25 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	91	0.00
2	T	Propene	1.223	0.916	25.1	81	0.00
3	T	Dichlorodifluoromethane	2.559	2.084	18.6	80	0.00
4	T	Chloromethane	2.080	1.698	18.4	80	0.00
5	T	Freon 114	0.675	0.586	13.2	88	0.00
6	T	Vinyl Chloride	1.418	1.282	9.6	94	0.00
7	T	1,3-Butadiene	1.375	1.116	18.8	83	0.00
8	T	Bromomethane	1.051	0.880	16.3	86	0.01
9	T	Chloroethane	0.974	0.802	17.7	83	0.00
10	T	Ethanol	0.753	0.773	-2.7	77	0.00
11	T	Acetonitrile	2.237	2.012	10.1	76	0.01
12	T	Acrolein	0.731	0.619	15.3	79	0.01
13	T	Acetone	1.046	0.742	29.1	82	0.00
14	T	Trichlorofluoromethane	1.741	1.484	14.8	81	0.00
15	T	Isopropanol	3.201	2.839	11.3	77	0.01
16	T	Acrylonitrile	1.580	1.421	10.1	79	0.01
17	T	1,1-Dichloroethene	1.172	1.030	12.1	83	0.00
18	T	tert-Butanol	2.959	2.426	18.0	77	0.01
19	T	Methylene Chloride	1.345	1.136	15.5	83	0.01
20	T	Allyl Chloride	1.722	1.461	15.2	76	0.00
21	T	Trichlorotrifluoroethane	0.683	0.546	20.1	94	0.00
22	T	Carbon Disulfide	4.831	4.089	15.4	84	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.571	16.5	79	0.00
24	T	1,1-Dichloroethane	1.910	1.611	15.7	79	0.01
25	T	Methyl tert-Butyl Ether	3.036	2.431	19.9	85	0.00
26	T	Vinyl Acetate	0.253	0.233	7.9	88	0.00
27	T	2-Butanone	0.805	0.704	12.5	84	0.00
28	T	cis-1,2-Dichloroethene	1.761	1.465	16.8	78	0.00
29	T	Diisopropyl Ether	0.832	0.726	12.7	88	0.00
30	T	Ethyl Acetate	0.404	0.334	17.3	82	0.00
31	T	n-Hexane	1.584	1.251	21.0	87	0.00
32	T	Chloroform	1.869	1.587	15.1	82	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.704	9.2	84	0.00
34	T	Tetrahydrofuran	0.759	0.656	13.6	85	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.094	13.2	88	0.00
36	T	1,2-Dichloroethane	1.709	1.394	18.4	78	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	92	0.00
38	T	1,1,1-Trichloroethane	0.411	0.352	14.4	84	0.00
39	T	Isopropyl Acetate	0.169	0.148	12.4	82	0.00
40	T	1-Butanol	0.202	0.239	-18.3	80	0.00
41	T	Benzene	1.053	0.900	14.5	86	0.00
42	T	Carbon Tetrachloride	0.336	0.299	11.0	84	0.00
43	T	Cyclohexane	0.367	0.318	13.4	89	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.636	12.6	84	0.00
45	T	1,2-Dichloropropane	0.268	0.234	12.7	83	0.00
46	T	Bromodichloromethane	0.361	0.325	10.0	82	0.00
47	T	Trichloroethene	0.238	0.222	6.7	89	0.00
48	T	1,4-Dioxane	0.207	0.195	5.8	85	0.00
49	T	Isooctane	0.987	0.823	16.6	82	0.00
50	T	Methyl Methacrylate	0.102	0.099	2.9	87	0.00
51	T	n-Heptane	0.256	0.220	14.1	84	0.00

LM 12/21/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140617.D
Acq On : 14 Dec 2006 21:40
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 15 08:42:25 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.404	11.2	82	0.00
53	T	4-Methyl-2-pentanone	0.246	0.219	11.0	80	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.375	11.6	80	0.00
55	T	1,1,2-Trichloroethane	0.261	0.236	9.6	84	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	88	0.00
57	S	Toluene-d8 (SS2)	2.035	2.046	-0.5	89	0.00
58	T	Toluene	2.041	1.860	8.9	84	0.00
59	T	2-Hexanone	1.166	1.038	11.0	77	0.00
60	T	Dibromochloromethane	0.515	0.494	4.1	83	0.00
61	T	1,2-Dibromoethane	0.549	0.521	5.1	83	0.00
62	T	Butyl Acetate	1.288	1.152	10.6	76	0.00
63	T	n-Octane	0.422	0.375	11.1	81	0.00
64	T	Tetrachloroethene	0.450	0.430	4.4	88	0.00
65	T	Chlorobenzene	1.315	1.236	6.0	85	0.00
66	T	Ethylbenzene	2.390	2.217	7.2	82	0.00
67	T	m- & p-Xylene	1.538	1.433	6.8	82	0.00
68	T	Bromoform	0.319	0.322	-0.9	84	0.00
69	T	Styrene	1.387	1.364	1.7	84	0.00
70	T	o-Xylene	1.663	1.564	6.0	83	0.00
71	T	n-Nonane	1.028	0.898	12.6	77	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.752	5.3	82	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.663	-11.1	97	0.00
74	T	Cumene	2.142	2.036	4.9	84	0.00
75	T	alpha-Pinene	1.139	1.067	6.3	83	0.00
76	T	n-Propylbenzene	2.877	2.707	5.9	82	0.00
77	T	3-Ethyltoluene	2.349	2.239	4.7	83	0.00
78	T	4-Ethyltoluene	2.172	2.084	4.1	84	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.818	5.0	83	0.00
80	T	alpha-Methylstyrene	1.020	1.016	0.4	84	0.00
81	T	2-Ethyltoluene	2.366	2.260	4.5	83	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.804	5.1	83	0.00
83	T	n-Decane	1.108	0.992	10.5	79	0.00
84	T	Benzyl Chloride	1.805	1.759	2.5	81	0.00
85	T	1,3-Dichlorobenzene	1.007	0.974	3.3	86	0.00
86	T	1,4-Dichlorobenzene	0.977	0.955	2.3	85	0.00
87	T	sec-Butylbenzene	2.519	2.407	4.4	84	0.00
88	T	p-Isopropyltoluene	2.033	1.961	3.5	84	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.750	5.6	83	0.00
90	T	1,2-Dichlorobenzene	0.939	0.909	3.2	85	0.00
91	T	d-Limonene	0.792	0.755	4.7	80	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.336	-7.3	87	0.00
93	T	n-Undecane	1.035	0.893	13.7	79	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.186	0.5	89	0.00
95	T	Naphthalene	2.210	2.240	-1.4	87	0.00
96	T	n-Dodecane	0.745	0.634	14.9	81	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.303	0.0	90	0.00

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

LM 12/21/06

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Data not evaluated

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603371

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: 12140602.D
Date Analyzed: 12/14/06
Time Analyzed: 10:07

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	308094	9.06	1366325	11.00	764747	15.82
	Upper Limit	431332	9.39	1912855	11.33	1070646	16.15
	Lower Limit	184856	8.73	819795	10.67	458848	15.49
	Client Sample ID						
01	Method Blank	317454	9.04	1492220	10.98	794143	15.81
02	Lab Control Sample	311068	9.07	1454120	11.00	795703	15.82
03	Duplicate Lab Control Sample	325875	9.06	1459499	11.00	822376	15.82
04	WDI-IBM-49-12-06-06	333371	9.05	1595467	10.98	839141	15.82
05	WDI-IBM-49-12-06-06 (Lab Duplicate)	331157	9.05	1593735	10.99	837736	15.82
06	WDI-IBM-21-12-06-06	360614	9.06	1703773	10.99	885875	15.81
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.

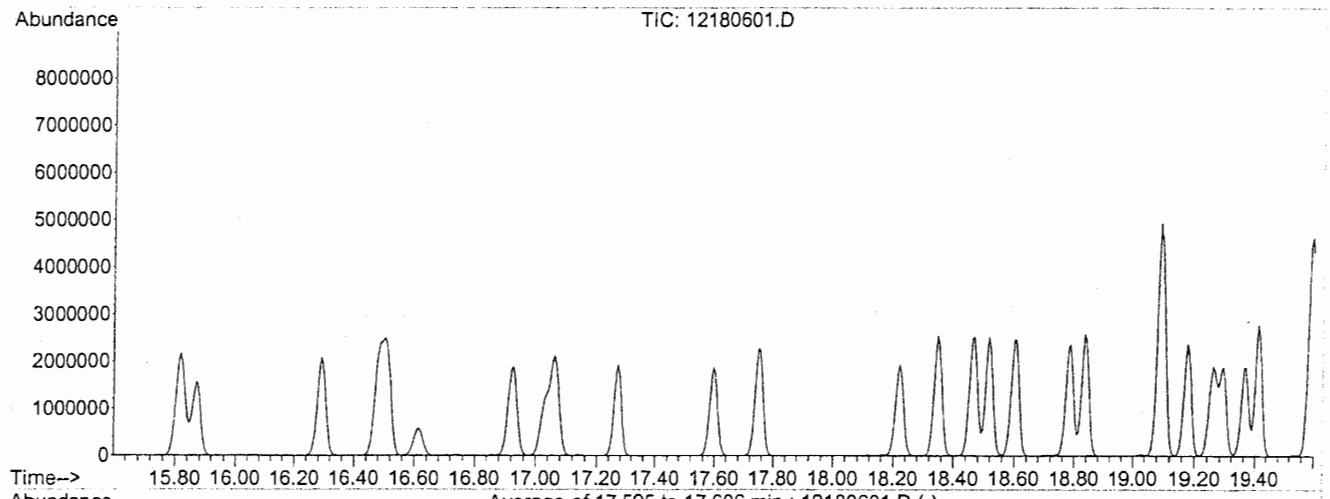
Verified by: MV Date: 12/22/06

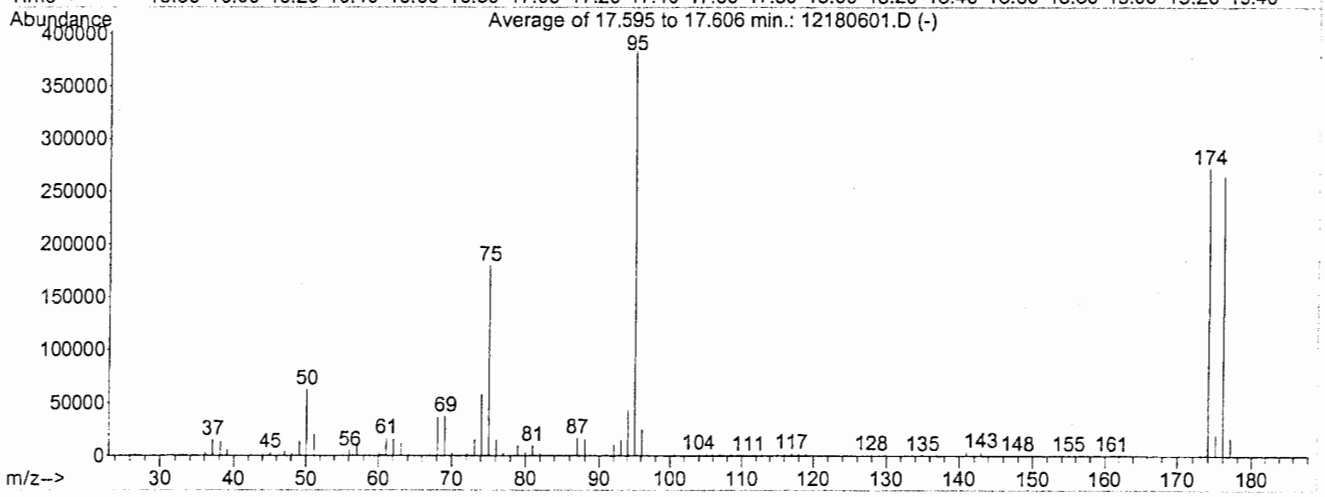
BFB

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180601.D
Acq On : 18 Dec 2006 7:08
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.4	62930	PASS
75	95	30	66	47.0	180074	PASS
95	95	100	100	100.0	383104	PASS
96	95	5	9	6.5	24768	PASS
173	174	0.00	2	0.3	733	PASS
174	95	50	120	71.1	272405	PASS
175	174	4	9	7.3	19760	PASS
176	174	93	101	97.1	264512	PASS
177	176	5	9	6.5	17156	PASS

LM 12/18/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180601.D
Acq On : 18 Dec 2006 7:08
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Quant Time: Dec 18 07:34:48 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	89	0.01
2	T	Propene	1.223	1.008	17.6	87	0.00
3	T	Dichlorodifluoromethane	2.559	2.257	11.8	85	0.01
4	T	Chloromethane	2.080	1.830	12.0	85	0.01
5	T	Freon 114	0.675	0.640	5.2	94	0.01
6	T	Vinyl Chloride	1.418	1.129	20.4	81	0.01
7	T	1,3-Butadiene	1.375	1.163	15.4	85	0.02
8	T	Bromomethane	1.051	0.919	12.6	88	0.02
9	T	Chloroethane	0.974	0.824	15.4	84	0.02
10	T	Ethanol	0.753	0.816	-8.4	79	0.03
11	T	Acetonitrile	2.237	2.169	3.0	81	0.03
12	T	Acrolein	0.731	0.650	11.1	81	0.02
13	T	Acetone	1.046	0.771	26.3	84	0.02
14	T	Trichlorofluoromethane	1.741	1.583	9.1	85	0.01
15	T	Isopropanol	3.201	3.010	6.0	80	0.03
16	T	Acrylonitrile	1.580	1.475	6.6	81	0.02
17	T	1,1-Dichloroethene	1.172	1.057	9.8	84	0.01
18	T	tert-Butanol	2.959	2.598	12.2	80	0.03
19	T	Methylene Chloride	1.345	1.154	14.2	83	0.02
20	T	Allyl Chloride	1.722	1.545	10.3	79	0.01
21	T	Trichlorotrifluoroethane	0.683	0.554	18.9	94	0.01
22	T	Carbon Disulfide	4.831	4.142	14.3	84	0.01
23	T	trans-1,2-Dichloroethene	1.881	1.611	14.4	80	0.01
24	T	1,1-Dichloroethane	1.910	1.666	12.8	80	0.02
25	T	Methyl tert-Butyl Ether	3.036	2.546	16.1	87	0.01
26	T	Vinyl Acetate	0.253	0.238	5.9	88	0.01
27	T	2-Butanone	0.805	0.710	11.8	83	0.02
28	T	cis-1,2-Dichloroethene	1.761	1.505	14.5	79	0.01
29	T	Diisopropyl Ether	0.832	0.740	11.1	88	0.01
30	T	Ethyl Acetate	0.404	0.340	15.8	82	0.02
31	T	n-Hexane	1.584	1.286	18.8	88	0.00
32	T	Chloroform	1.869	1.654	11.5	84	0.01
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.795	4.4	86	0.01
34	T	Tetrahydrofuran	0.759	0.661	12.9	85	0.01
35	T	Ethyl tert-Butyl Ether	1.261	1.101	12.7	87	0.00
36	T	1,2-Dichloroethane	1.709	1.431	16.3	79	0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	90	0.00
38	T	1,1,1-Trichloroethane	0.411	0.361	12.2	84	0.00
39	T	Isopropyl Acetate	0.169	0.152	10.1	82	0.00
40	T	1-Butanol	0.202	0.243	-20.3	79	0.00
41	T	Benzene	1.053	0.903	14.2	84	0.00
42	T	Carbon Tetrachloride	0.336	0.307	8.6	84	0.00
43	T	Cyclohexane	0.367	0.318	13.4	87	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.642	11.8	83	0.00
45	T	1,2-Dichloropropane	0.268	0.233	13.1	80	0.00
46	T	Bromodichloromethane	0.361	0.336	6.9	83	0.00
47	T	Trichloroethene	0.238	0.218	8.4	85	0.00
48	T	1,4-Dioxane	0.207	0.195	5.8	82	0.00
49	T	Isooctane	0.987	0.835	15.4	81	0.00
50	T	Methyl Methacrylate	0.102	0.097	4.9	83	0.00
51	T	n-Heptane	0.256	0.219	14.5	82	0.00

LM 12/18/06

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Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180601.D
Acq On : 18 Dec 2006 7:08
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 07:34:48 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.403	11.4	80	0.00
53	T	4-Methyl-2-pentanone	0.246	0.221	10.2	79	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.376	11.3	78	0.00
55	T	1,1,2-Trichloroethane	0.261	0.234	10.3	81	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	88	0.00
57	S	Toluene-d8 (SS2)	2.035	1.993	2.1	86	0.00
58	T	Toluene	2.041	1.803	11.7	81	0.00
59	T	2-Hexanone	1.166	1.043	10.5	76	0.00
60	T	Dibromochloromethane	0.515	0.482	6.4	81	0.00
61	T	1,2-Dibromoethane	0.549	0.508	7.5	80	0.00
62	T	Butyl Acetate	1.288	1.161	9.9	76	0.00
63	T	n-Octane	0.422	0.376	10.9	80	0.00
64	T	Tetrachloroethene	0.450	0.409	9.1	83	0.00
65	T	Chlorobenzene	1.315	1.182	10.1	80	0.00
66	T	Ethylbenzene	2.390	2.154	9.9	79	0.00
67	T	m- & p-Xylene	1.538	1.400	9.0	80	0.00
68	T	Bromoform	0.319	0.314	1.6	82	0.00
69	T	Styrene	1.387	1.318	5.0	81	0.00
70	T	o-Xylene	1.663	1.522	8.5	80	0.00
71	T	n-Nonane	1.028	0.889	13.5	75	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.730	8.1	79	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.647	-8.4	94	0.00
74	T	Cumene	2.142	1.962	8.4	80	0.00
75	T	alpha-Pinene	1.139	1.033	9.3	80	0.00
76	T	n-Propylbenzene	2.877	2.652	7.8	80	0.00
77	T	3-Ethyltoluene	2.349	2.158	8.1	79	0.00
78	T	4-Ethyltoluene	2.172	2.049	5.7	82	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.772	7.4	80	0.00
80	T	alpha-Methylstyrene	1.020	0.982	3.7	80	0.00
81	T	2-Ethyltoluene	2.366	2.196	7.2	80	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.781	6.3	81	0.00
83	T	n-Decane	1.108	0.982	11.4	77	0.00
84	T	Benzyl Chloride	1.805	1.717	4.9	78	0.00
85	T	1,3-Dichlorobenzene	1.007	0.952	5.5	83	0.00
86	T	1,4-Dichlorobenzene	0.977	0.919	5.9	82	0.00
87	T	sec-Butylbenzene	2.519	2.337	7.2	81	0.00
88	T	p-Isopropyltoluene	2.033	1.905	6.3	81	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.725	7.0	81	0.00
90	T	1,2-Dichlorobenzene	0.939	0.886	5.6	83	0.00
91	T	d-Limonene	0.792	0.743	6.2	78	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.323	-3.2	83	0.00
93	T	n-Undecane	1.035	0.901	12.9	79	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.189	-1.1	89	0.00
95	T	Naphthalene	2.210	2.281	-3.2	88	0.00
96	T	n-Dodecane	0.745	0.671	9.9	85	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.302	0.3	89	0.00

LM 12/18/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180605.D
Acq On : 18 Dec 2006 11:30
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12050601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 17:12:52 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	87	-0.01	
2	T	Propene	1.223	1.481	-21.1	86	0.01	
3	T	Dichlorodifluoromethane	2.559	2.781	-8.7	82	0.01	
4	T	Chloromethane	2.080	2.088	-0.4	80	0.00	
5	T	Freon 114	0.675	0.956	-41.6#	103	0.02	NTC
6	T	Vinyl Chloride	1.418	1.593	-12.3	78	0.00	
7	T	1,3-Butadiene	1.375	1.483	-7.9	82	0.00	
8	T	Bromomethane	1.051	1.128	-7.3	83	0.01	
9	T	Chloroethane	0.974	1.030	-5.7	82	0.00	
10	T	Ethanol	0.753	0.600	20.3	92	-0.01	
11	T	Acetonitrile	2.237	1.924	14.0	80	0.01	
12	T	Acrolein	0.731	0.680	7.0	83	0.01	
13	T	Acetone	1.046	1.332	-27.3	101	0.00	
14	T	Trichlorofluoromethane	1.741	1.860	-6.8	87	0.00	
15	T	Isopropanol	3.201	3.291	-2.8	82	0.00	
16	T	Acrylonitrile	1.580	1.403	11.2	83	0.00	
17	T	1,1-Dichloroethene	1.172	1.170	0.2	80	0.00	
18	T	tert-Butanol	2.959	3.235	-9.3	80	0.00	
19	T	Methylene Chloride	1.345	1.371	-1.9	82	0.00	
20	T	Allyl Chloride	1.722	1.451	15.7	74	0.00	
21	T	Trichlorotrifluoroethane	0.683	0.857	-25.5	96	0.00	
22	T	Carbon Disulfide	4.831	4.926	-2.0	80	0.00	
23	T	trans-1,2-Dichloroethene	1.881	1.840	2.2	82	-0.01	
24	T	1,1-Dichloroethane	1.910	2.029	-6.2	88	-0.01	
25	T	Methyl tert-Butyl Ether	3.036	3.255	-7.2	80	0.00	
26	T	Vinyl Acetate	0.253	0.286	-13.0	85	0.00	
27	T	2-Butanone	0.805	0.823	-2.2	87	0.00	
28	T	cis-1,2-Dichloroethene	1.761	1.635	7.2	77	-0.02	
29	T	Diisopropyl Ether	0.832	0.968	-16.3	88	0.00	
30	T	Ethyl Acetate	0.404	0.400	1.0	79	0.00	
31	T	n-Hexane	1.584	1.901	-20.0	88	0.00	
32	T	Chloroform	1.869	1.964	-5.1	80	-0.02	
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.860	0.9	83	-0.01	
34	T	Tetrahydrofuran	0.759	0.732	3.6	79	0.00	
35	T	Ethyl tert-Butyl Ether	1.261	1.378	-9.3	84	0.00	
36	T	1,2-Dichloroethane	1.709	1.614	5.6	78	-0.01	
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	89	0.00	
38	T	1,1,1-Trichloroethane	0.411	0.405	1.5	83	-0.01	
39	T	Isopropyl Acetate	0.169	0.164	3.0	83	0.00	
40	T	1-Butanol	0.202	0.137	32.2#	90	0.01	NTC
41	T	Benzene	1.053	1.045	0.8	80	0.00	
42	T	Carbon Tetrachloride	0.336	0.329	2.1	87	-0.01	
43	T	Cyclohexane	0.367	0.401	-9.3	88	-0.02	
44	T	tert-Amyl Methyl Ether	0.728	0.719	1.2	82	0.00	
45	T	1,2-Dichloropropane	0.268	0.251	6.3	81	-0.02	
46	T	Bromodichloromethane	0.361	0.334	7.5	82	-0.01	
47	T	Trichloroethene	0.238	0.242	-1.7	88	0.00	LM 12/18/06
48	T	1,4-Dioxane	0.207	0.188	9.2	82	0.00	
49	T	Isooctane	0.987	1.012	-2.5	84	0.00	
50	T	Methyl Methacrylate	0.102	0.094	7.8	84	0.00	
51	T	n-Heptane	0.256	0.263	-2.7	86	0.00	

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180605.D
Acq On : 18 Dec 2006 11:30
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12050601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 17:12:52 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.417	8.4	79	0.00
53	T	4-Methyl-2-pentanone	0.246	0.222	9.8	79	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.370	12.7	77	0.00
55	T	1,1,2-Trichloroethane	0.261	0.239	8.4	81	-0.02
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	87	0.00
57	S	Toluene-d8 (SS2)	2.035	2.028	0.3	86	-0.01
58	T	Toluene	2.041	2.058	-0.8	81	0.00
59	T	2-Hexanone	1.166	1.041	10.7	77	0.00
60	T	Dibromochloromethane	0.515	0.499	3.1	84	-0.01
61	T	1,2-Dibromoethane	0.549	0.544	0.9	83	0.00
62	T	Butyl Acetate	1.288	1.131	12.2	75	0.00
63	T	n-Octane	0.422	0.412	2.4	79	0.00
64	T	Tetrachloroethene	0.450	0.461	-2.4	82	0.00
65	T	Chlorobenzene	1.315	1.299	1.2	80	-0.01
66	T	Ethylbenzene	2.390	2.351	1.6	80	-0.01
67	T	m- & p-Xylene	1.538	1.513	1.6	79	-0.03
68	T	Bromoform	0.319	0.297	6.9	83	0.00
69	T	Styrene	1.387	1.303	6.1	80	0.00
70	T	o-Xylene	1.663	1.642	1.3	81	-0.01
71	T	n-Nonane	1.028	0.941	8.5	74	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.760	4.3	81	-0.01
73	S	Bromofluorobenzene (SS3)	0.597	0.650	-8.9	94	0.00
74	T	Cumene	2.142	2.181	-1.8	83	0.00
75	T	alpha-Pinene	1.139	1.093	4.0	78	0.00
76	T	n-Propylbenzene	2.877	2.796	2.8	80	0.00
77	T	3-Ethyltoluene	2.349	2.295	2.3	82	0.00
78	T	4-Ethyltoluene	2.172	2.138	1.6	79	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.920	-0.4	81	0.00
80	T	alpha-Methylstyrene	1.020	0.901	11.7	78	0.00
81	T	2-Ethyltoluene	2.366	2.330	1.5	80	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.866	1.8	81	-0.01
83	T	n-Decane	1.108	1.037	6.4	77	0.00
84	T	Benzyl Chloride	1.805	1.610	10.8	78	0.00
85	T	1,3-Dichlorobenzene	1.007	0.985	2.2	80	-0.01
86	T	1,4-Dichlorobenzene	0.977	0.966	1.1	81	0.00
87	T	sec-Butylbenzene	2.519	2.478	1.6	79	0.00
88	T	p-Isopropyltoluene	2.033	1.974	2.9	79	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.819	1.9	81	0.00
90	T	1,2-Dichlorobenzene	0.939	0.926	1.4	81	0.00
91	T	d-Limonene	0.792	0.689	13.0	75	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.266	15.0	81	0.00
93	T	n-Undecane	1.035	0.945	8.7	73	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.166	11.2	74	0.00
95	T	Naphthalene	2.210	2.019	8.6	80	0.00
96	T	n-Dodecane	0.745	0.751	-0.8	79	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.289	4.6	81	0.00

LM 12/18/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180613.D
Acq On : 18 Dec 2006 18:48
Operator : LM
Sample : 25ng TO-15 CCV Std
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 12:59:56 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	88	0.00
2	T	Propene	1.223	0.981	19.8	84	0.00
3	T	Dichlorodifluoromethane	2.559	2.262	11.6	84	0.00
4	T	Chloromethane	2.080	1.835	11.8	84	0.00
5	T	Freon 114	0.675	0.631	6.5	92	0.00
6	T	Vinyl Chloride	1.418	1.260	11.1	89	0.00
7	T	1,3-Butadiene	1.375	1.209	12.1	87	0.00
8	T	Bromomethane	1.051	0.944	10.2	89	0.00
9	T	Chloroethane	0.974	0.861	11.6	86	0.00
10	T	Ethanol	0.753	0.859	-14.1	82	0.02
11	T	Acetonitrile	2.237	2.253	-0.7	83	0.01
12	T	Acrolein	0.731	0.681	6.8	84	0.01
13	T	Acetone	1.046	0.814	22.2	87	0.00
14	T	Trichlorofluoromethane	1.741	1.617	7.1	86	0.00
15	T	Isopropanol	3.201	3.168	1.0	83	0.01
16	T	Acrylonitrile	1.580	1.550	1.9	83	0.01
17	T	1,1-Dichloroethene	1.172	1.095	6.6	86	0.00
18	T	tert-Butanol	2.959	2.698	8.8	82	0.01
19	T	Methylene Chloride	1.345	1.212	9.9	86	0.00
20	T	Allyl Chloride	1.722	1.620	5.9	82	0.00
21	T	Trichlorotrifluoroethane	0.683	0.563	17.6	94	0.00
22	T	Carbon Disulfide	4.831	4.327	10.4	86	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.678	10.8	82	0.00
24	T	1,1-Dichloroethane	1.910	1.753	8.2	83	0.00
25	T	Methyl tert-Butyl Ether	3.036	2.664	12.3	90	0.00
26	T	Vinyl Acetate	0.253	0.252	0.4	92	0.00
27	T	2-Butanone	0.805	0.757	6.0	88	0.00
28	T	cis-1,2-Dichloroethene	1.761	1.590	9.7	82	0.00
29	T	Diisopropyl Ether	0.832	0.771	7.3	90	0.00
30	T	Ethyl Acetate	0.404	0.363	10.1	86	0.00
31	T	n-Hexane	1.584	1.351	14.7	91	0.00
32	T	Chloroform	1.869	1.739	7.0	87	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.819	3.1	86	0.00
34	T	Tetrahydrofuran	0.759	0.701	7.6	88	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.165	7.6	90	0.00
36	T	1,2-Dichloroethane	1.709	1.526	10.7	83	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	90	0.00
38	T	1,1,1-Trichloroethane	0.411	0.373	9.2	87	0.00
39	T	Isopropyl Acetate	0.169	0.159	5.9	86	0.00
40	T	1-Butanol	0.202	0.256	-26.7	83	0.00
41	T	Benzene	1.053	0.936	11.1	87	0.00
42	T	Carbon Tetrachloride	0.336	0.316	6.0	87	0.00
43	T	Cyclohexane	0.367	0.329	10.4	90	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.674	7.4	87	0.00
45	T	1,2-Dichloropropane	0.268	0.244	9.0	85	0.00
46	T	Bromodichloromethane	0.361	0.343	5.0	84	0.00
47	T	Trichloroethene	0.238	0.228	4.2	89	0.00
48	T	1,4-Dioxane	0.207	0.203	1.9	86	0.00
49	T	Isooctane	0.987	0.872	11.7	85	0.00
50	T	Methyl Methacrylate	0.102	0.103	-1.0	88	0.00
51	T	n-Heptane	0.256	0.227	11.3	85	0.00

LM 12/21/06

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Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180613.D
Acq On : 18 Dec 2006 18:48
Operator : LM
Sample : 25ng TO-15 CCV Std
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 12:59:56 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.425	6.6	84	0.00
53	T	4-Methyl-2-pentanone	0.246	0.233	5.3	83	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.396	6.6	83	0.00
55	T	1,1,2-Trichloroethane	0.261	0.245	6.1	85	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	88	0.00
57	S	Toluene-d8 (SS2)	2.035	1.995	2.0	87	0.00
58	T	Toluene	2.041	1.883	7.7	85	0.00
59	T	2-Hexanone	1.166	1.100	5.7	81	0.00
60	T	Dibromochloromethane	0.515	0.493	4.3	83	0.00
61	T	1,2-Dibromoethane	0.549	0.523	4.7	83	0.00
62	T	Butyl Acetate	1.288	1.223	5.0	81	0.00
63	T	n-Octane	0.422	0.391	7.3	84	0.00
64	T	Tetrachloroethene	0.450	0.420	6.7	86	0.00
65	T	Chlorobenzene	1.315	1.224	6.9	84	0.00
66	T	Ethylbenzene	2.390	2.242	6.2	83	0.00
67	T	m- & p-Xylene	1.538	1.453	5.5	83	0.00
68	T	Bromoform	0.319	0.323	-1.3	84	0.00
69	T	Styrene	1.387	1.359	2.0	84	0.00
70	T	o-Xylene	1.663	1.590	4.4	84	0.00
71	T	n-Nonane	1.028	0.946	8.0	80	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.758	4.5	82	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.645	-8.0	94	0.00
74	T	Cumene	2.142	2.043	4.6	84	0.00
75	T	alpha-Pinene	1.139	1.069	6.1	83	0.00
76	T	n-Propylbenzene	2.877	2.743	4.7	83	0.00
77	T	3-Ethyltoluene	2.349	2.226	5.2	82	0.00
78	T	4-Ethyltoluene	2.172	2.118	2.5	85	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.839	3.9	84	0.00
80	T	alpha-Methylstyrene	1.020	1.007	1.3	83	0.00
81	T	2-Ethyltoluene	2.366	2.281	3.6	84	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.842	3.1	85	0.00
83	T	n-Decane	1.108	1.036	6.5	82	0.00
84	T	Benzyl Chloride	1.805	1.797	0.4	82	0.00
85	T	1,3-Dichlorobenzene	1.007	0.983	2.4	86	0.00
86	T	1,4-Dichlorobenzene	0.977	0.947	3.1	85	0.00
87	T	sec-Butylbenzene	2.519	2.436	3.3	85	0.00
88	T	p-Isopropyltoluene	2.033	1.966	3.3	84	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.803	2.8	86	0.00
90	T	1,2-Dichlorobenzene	0.939	0.915	2.6	86	0.00
91	T	d-Limonene	0.792	0.780	1.5	83	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.341	-8.9	88	0.00
93	T	n-Undecane	1.035	0.964	6.9	85	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.200	-7.0	95	0.00
95	T	Naphthalene	2.210	2.415	-9.3	93	0.00
96	T	n-Dodecane	0.745	0.735	1.3	94	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.324	-6.9	96	0.00

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

LM 12/21/06

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Data not evaluated

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603371

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: 12180601.D
Date Analyzed: 12/18/06
Time Analyzed: 07:08

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	383949	9.07	1673302	11.00	894835	15.82
	Upper Limit	537529	9.40	2342623	11.33	1252769	16.15
	Lower Limit	230369	8.74	1003981	10.67	536901	15.49
	Client Sample ID						
01	Method Blank	368372	9.04	1818302	10.98	926192	15.81
02	Lab Control Sample	371604	9.06	1661291	11.00	888047	15.82
03	Duplicate Lab Control Sample	376362	9.07	1695751	11.00	889474	15.82
04	WDI-IBM-32-12-06-06 (Dilution)	363996	9.05	1687111	10.98	878459	15.81
05							
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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: MJ Date: 12/22/06

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
16	12/4/06 21:37	12040616.D	P2603269-001 (1000ml)	[redacted]2.2, 3.5)	AB	10	
17	12/4/06 22:12	12040617.D	P2603269-001 Dil (100ml)	[redacted]2.2, 3.5)	AB	10	
18	12/4/06 22:53	12040618.D	P2603269-002 (1000ml)	[redacted]-1.9, 3.5)	AB	12	
19	12/4/06 23:29	12040619.D	P2603269-002 Dil (100ml)	[redacted]1.9, 3.5)	AB	12	
20	12/5/06 0:04	12040620.D	P2603269-003 (200ml)	[redacted]1.9, 3.5)	AB	13	
21	12/5/06 0:41	12040621.D	P2603269-004 (500ml)	[redacted].1, 3.5)	AB	14	Case file, Run higher
22	12/5/06 1:17	12040622.D	P2603253-002 Dil (100ml)	[redacted]2.4, 3.5)	AB	8	
23	12/5/06 1:53	12040623.D	P2603253-002 Dup Dil (100ml)	[redacted]2.4, 3.5)	AB	8	Passed as lab Dup
24	12/5/06 2:30	12040624.D	P2603244-001 Dil (100ml)	[redacted].2, 3.5)	AB	9	
25	12/5/06 3:06	12040625.D	P2603244-001 Dup Dil (100ml)	[redacted]3.2, 3.5)	AB	9	

1	12/5/06 8:02	12050601.D	25ng TO-15 CCV STD+ 2-Methylnaphthalene STD	S15-11130603/S15-11270605/S15-11280601	AB	1	Passed for TO-15
2	12/5/06 9:10	12050602.D	25ng 2-Methylnaphthalene STD	S15-11130603/S15-11280601	AB	15	Passed
3	12/5/06 10:18	12050603.D	TO-15 Method Blank (1000ml)	S15-11130603	LM	1	Passed
4	12/5/06 11:29	12050604.D	25ng TO-15 LCS STD	S15-11130603/S15-11140606	LM	2	Passed
5	12/5/06 12:17	12050605.D	25ng 2-Methylnaphthalene LCS STD	S15-11130603/S15-11280603	LM	7	Passed
6	12/5/06 13:28	12050606.D	P2603279-002 (1000ml)	[redacted].8,3.5)	LM	16	
7	12/5/06 14:21	12050607.D	P2603279-002 dup (1000ml)	[redacted].8,3.5)	LM	16	Passed as lab Dup
8	12/5/06 15:26	12050608.D	P2603279-001 (1000ml)	[redacted].8,3.5)	LM	11	
9	12/5/06 16:17	12050609.D	P2603269-003 DIL (10ml)	[redacted]-1.9,3.5)	LM	1	
10	12/5/06 18:00	12050610.D	P2603269-004 (1000ml)	[redacted]0.1,3.5)	LM	14	
11	12/5/06 18:36	12050611.D	5ng CCV STD	S15-12050604(test can)	LM	1	
12	12/5/06 19:12	12050612.D	blank (200ml)	rinse	LM	1	

1	12/6/06 9:29	12060601.D	Blank(200ml)	S15-12050601	LM	1	
2	12/6/06 10:21	12060602.D	5ng TO-15 CCV STD	S15-12050601/S15-12050604	LM	1	Failed
3	12/6/06 12:13	12060603.D	25ng TO-15 CCV STD	S15-12050601/S15-11270605	LM	1	Failed
4	12/6/06 13:16	12060604.D	Blank(500ml)	S15-12050601	LM	1	Clean system.
5	12/6/06 14:54	12060605.D	Blank(200ml)	S15-12050601	LM	1	
6	12/6/06 15:30	12060606.D	25ng TO-15 BFB	S15-12050601	LM	1	Passed
7	12/6/06 16:06	12060607.D	0.5ng TO-15 ICAL STD	S15-12050601/S15-12050604	LM	1	ICAL ok for all compounds 0.5-100ng
8	12/6/06 16:42	12060608.D	1ng TO-15 ICAL STD	S15-12050601/S15-12050604	LM	1	
9	12/6/06 17:17	12060609.D	5ng TO-15 ICAL STD	S15-12050601/S15-12050604	LM	1	
10	12/6/06 17:53	12060610.D	25ng TO-15 ICAL STD	S15-12050601/S15-12050606	LM	1	
11	12/6/06 18:28	12060611.D	50ng TO-15 ICAL STD	S15-12050601/S15-12050606	LM	1	
12	12/6/06 19:04	12060612.D	100ng TO-15 ICAL STD	S15-12050601/S15-12050606	LM	1	
13	12/6/06 19:39	12060613.D	25ng TO-15 ICV STD	S15-12050601/S15-12050608	LM	2	Passed

12/12/06

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	12/11/06 7:22	12110601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
2	12/11/06 8:05	12110602.D	50ng 1,1,1,2-Tetrafluoroethane STD (5.0ml)	S15-12050601/S15-12110602	LM	1	Passed
3	12/11/06 9:15	12110603.D	TO-15 Method Blank (1000ml)	S15-12050601	LM	1	Passed
4	12/11/06 10:00	12110604.D	25ng TO-15 LCS STD	S15-12050601/S15-12050608	LM	2	Passed
5	12/11/06 10:42	12110605.D	P2603310-011 DIL (50ml)	[redacted]0.0,3.5)	LM	6	
6	12/11/06 11:31	12110606.D	P2603310-007 (0.20ml)	[redacted]1.2,3.5)	LM	1	
7	12/11/06 12:14	12110607.D	P2603310-007 (0.60ml)	[redacted]1.2,3.5)	LM	1	
8	12/11/06 12:53	12110608.D	P2603310-007 (0.40ml)	[redacted]0.8,3.5)	LM	1	
9	12/11/06 13:42	12110609.D	P2603310-006 (0.20ml)	[redacted]0.6,3.5)	LM	1	
10	12/11/06 14:30	12110610.D	P2603310-009 (1.50ml)	[redacted].3,3.5)	LM	1	
11	12/11/06 15:06	12110611.D	P2603310-009 dup (1.50ml)	[redacted].3,3.5)	LM	1	Passed as Lab Dup
12	12/11/06 16:02	12110612.D	P2603387-001 (1000ml)	[redacted]-3.6,3.5)	LM	9	Case file, Case Valve cleared
13	12/11/06 16:43	12110613.D	P2603387-001 (1000ml)	[redacted].6,3.5)	LM	9	
14	12/11/06 18:21	12110614.D	P2603387-002 (1000ml)	[redacted]2.7,3.5)	LM	10	
15	12/11/06 18:56	12110615.D	P2603387-002 dil (100ml)	[redacted]-2.7,3.5)	LM	10	
16	12/11/06 19:37	12110616.D	P2603387-003 (1000ml)	[redacted]-5.3,3.5)	LM	11	
17	12/11/06 20:17	12110617.D	P2603387-004 (1000ml)	[redacted]-5.9,3.5)	LM	12	
18	12/11/06 20:58	12110618.D	P2603376-001 (1000ml)	[redacted].3,3.6)	LM	13	
19	12/11/06 21:34	12110619.D	P2603376-001 dil (100ml)	[redacted].3,3.6)	LM	13	
20	12/11/06 22:10	12110620.D	P2603376-002 (100ml)	[redacted].3,3.6)	LM	14	
21	12/11/06 22:46	12110621.D	P2603376-002 dil (25ml)	[redacted]0.3,3.6)	LM	14	
22	12/11/06 23:26	12110622.D	P2603353-001 (1000ml)	[redacted](-2.2,3.5)	LM	15	
23	12/12/06 0:07	12110623.D	P2603353-002 (1000ml)	[redacted](-2.0,3.6)	LM	16	
24	12/12/06 0:48	12110624.D	P2603353-003 (1000ml)	[redacted]2.0,3.6)	LM	4	Case file, Rerun
25	12/12/06 1:24	12110625.D	blank(200ml)	rinse system	LM	1	

1	12/12/06 8:48	12120601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
2	12/12/06 10:06	12120602.D	Cas Can QC 12/11/06(1000ml)	AC00942	LM	8	Passed all comp + TICS, used as MB
3	12/12/06 11:05	12120603.D	1ng TO-15 STD	S15-12050601/S15-12050605	LM	1	Passed
4	12/12/06 11:49	12120604.D	25ng TO-15 LCS STD	S15-12050601/S15-12050608	LM	2	Passed
5	12/12/06 12:24	12120605.D	25ng TO-15 LCSD STD	S15-12050601/S15-12050608	LM	2	Passed as Dup
6	12/12/06 13:28	12120606.D	P2603319-001 (0.50ml)	TRC WDI-GTS-IN-11-30-06 (-3.2,3.5)	LM	1	
7	12/12/06 14:50	12120607.D	P2603319-001 (1000ml)	TRC WDI-GTS-IN-11-30-06 (-3.2,3.5)	LM	8	
8	12/12/06 15:50	12120608.D	P2603319-002 (1000ml)	TRC WDI-GTS-~~IN~~ OUT-11-30-06 (-3.2,3.5)	LM	9	
9	12/12/06 16:43	12120609.D	P2603319-002 dup (1000ml)	TRC WDI-GTS-OUT-11-30-06 (-3.1,3.5)	LM	9	Passed as Dup
10	12/12/06 17:44	12120610.D	P2603371-001 (1000ml)	TRC WDI-VW-29-S-12-06-06(-3.0,4.0)	LM	9	
11	12/12/06 18:52	12120611.D	P2603371-002 (1000ml)	TRC WDI-VW-29-I-12-06-06 (-3.2,3.5)	LM	10	
12	12/12/06 19:32	12120612.D	P2603371-003 (1000ml)	TRC WDI-VW-29-D-12-06-06 (-3.2,3.5)	LM	11	
13	12/12/06 20:08	12120613.D	25ng TO-15 CCV Std	S15-12050601/S15-12050606	LM	1	Passed
14	12/12/06 20:49	12120614.D	P2603333-005 (1000ml)	[redacted]-5.1,3.5)	LM	4	
15	12/12/06 21:29	12120615.D	P2603333-006 (1000ml)	[redacted](-4.6,3.5)	LM	5	
16	12/12/06 22:11	12120616.D	P2603333-006 dup (1000ml)	[redacted]4.6,3.5)	LM	5	Passed as Dup

6

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
17	12/12/06 22:51	12120617.D	P2603333-007 (1000ml)	[redacted]5.8,3.5)	LM	6	
18	12/12/06 23:32	12120618.D	P2603333-008 (1000ml)	[redacted]0,3.5)	LM	7	
19	12/13/06 0:12	12120619.D	P2603317-005 (1000ml)	[redacted]4.6,3.5)	LM	8	
20	12/13/06 0:53	12120620.D	P2603317-006 (1000ml)	[redacted]5.0,3.5)	LM	9	
21	12/13/06 1:33	12120621.D	P2603317-007 (1000ml)	[redacted]4.5,3.5)	LM	12	
22	12/13/06 2:14	12120622.D	P2603317-008 (1000ml)	[redacted]4.2,3.5)	LM	13	
23	12/13/06 2:51	12120623.D	P2603353-001 dil (50ml)	[redacted]2.2,3.5)	LM	14	Care fill, Do not water dry
24	12/13/06 3:27	12120624.D	P2603353-002 dil (100ml)	[redacted]2.8,3.5)	LM	15	
25	12/13/06 4:03	12120625.D	P2603353-003 dil (100ml)	[redacted]2.8,3.6)	LM	16	
26	12/13/06 4:39	12120626.D	blank (100ml)	rinse system	LM	1	

	Date/Ti
1	12/14/06
2	12/14/06
3	12/14/06
4	12/14/06
5	12/14/06
6	12/14/06
7	12/14/06
8	12/14/06
9	12/14/06
10	12/14/06
11	12/14/06
12	12/14/0
13	12/14/0
14	12/14/0
15	12/14/0
16	12/14/0
17	12/14/0
18	12/14/0
19	12/14/
20	12/14/
21	12/15
22	12/15
23	12/15
24	12/15

1	12/13/06 8:30	12130601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
2	12/13/06 9:29	12130602.D	TO-15 Method Blank (1000ml)	S15-12050601	LM	1	Passed
3	12/13/06 10:16	12130603.D	1ng TO-15 CCV STD	S15-12050601/S15-12050604	LM	1	Passed
4	12/13/06 11:03	12130604.D	25ng TO-15 LCS STD	S15-12050601/S15-12050608	LM	2	Passed
5	12/13/06 11:39	12130605.D	25ng TO-15 LCSD STD	S15-12050601/S15-12050608	LM	2	Passed
6	12/13/06 12:44	12130606.D	P2603371-004 (1000ml)	TRC WDI-VW-46-S-12-06-06 (-1.7,3.5)	LM	4	
7	12/13/06 13:24	12130607.D	P2603371-005 (1000ml)	TRC WDI-VW-46-D-12-06-06 (-1.9,3.6)	LM	5	
8	12/13/06 14:08	12130608.D	P2603371-005 dil (10ml)	TRC WDI-VW-46-D-12-06-06 (-1.9,3.6)	LM	1	
9	12/13/06 14:50	12130609.D	P2603371-006 (25ml)	TRC WDI-VW-46-D-12-06-06-SC (0.9,3.5)	LM	6	
10	12/13/06 15:26	12130610.D	P2603371-006 dil (10ml)	TRC WDI-VW-46-D-12-06-06-SC (0.9,3.5)	LM	1	
11	12/13/06 16:02	12130611.D	P2603371-007 (20ml)	TRC WDI-VW-46-I-12-06-06 (-1.9,3.5)	LM	1	
12	12/13/06 16:39	12130612.D	P2603371-007 dup (20ml)	TRC WDI-VW-46-I-12-06-06 (-1.9,3.5)	LM	1	Passed as Dup
13	12/13/06 17:16	12130613.D	P2603371-008 (5.0ml)	TRC WDI-IBM-41-I-12-06-06 (-2.7,3.5)	LM	1	
14	12/13/06 18:24	12130614.D	P2603371-008 (100ml)	TRC WDI-IBM-41-I-12-06-06 (-2.7,3.5)	LM	2	
15	12/13/06 19:00	12130615.D	P2803371-004 dil (100ml)	TRC WDI-VW-46-S-12-06-06 (-1.7,3.5) LM 12/21/06	LM	4	
16	12/13/06 19:40	12130616.D	P2603371-009 (1000ml)	TRC WDI-IBM-32-12-06-06 (-2.5,3.5) LM 12/21/06	LM	11	
17	12/13/06 20:16	12130617.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed.
18	12/13/06 20:51	12130618.D	P2603284-003 dil (100ml)	[redacted]-1.3,3.5)	LM	5	
19	12/13/06 21:27	12130619.D	P2603411-002(0.03ml)	[redacted]	LM	6	
20	12/13/06 22:02	12130620.D	P2603411-003(0.005ml)	[redacted]	LM	7	
21	12/13/06 22:38	12130621.D	P2603411-007(0.01ml)	[redacted]	LM	8	
22	12/13/06 23:13	12130622.D	P2603411-008(0.005ml) LM 12/28/06	[redacted]	LM	9	
23	12/13/06 23:49	12130623.D	P2603411-009 (0.001ml) LM 12/28/06	[redacted]	LM	10	
24	12/14/06 0:25	12130624.D	P2603411-009(0.001ml) LM 12/28/06	[redacted]	LM	11	Care file, use the buffer [illegible]
25	12/14/06 8:27	12130625.D	blank (100ml)	rinse	LM	1	

1	12/15/0
2	12/15/0
3	12/15/0
4	12/15/0
5	12/15/0
6	12/15/0
7	12/15/0
8	12/15/0
9	12/15/0
10	12/15/
11	12/15/
12	12/15/
13	12/15/
14	12/15/
15	12/15/
16	12/15
17	12/15

LM 12/18/06

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	12/14/06 9:24	12140601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Tri/Mf [illegible]
2	12/14/06 10:07	12140602.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
3	12/14/06 11:20	12140603.D	TO-15 Method Blank (1000ml)	S15-12050601	LM	1	Passed
4	12/14/06 12:11	12140604.D	1ng TO-15 CCV Std	S15-12050601	LM	1	Passed
5	12/14/06 12:54	12140605.D	25ng TO-15 LCS STD	S15-12050601/S15-12050608	LM	2	Passed
6	12/14/06 13:30	12140606.D	25ng TO-15 LCSD STD	S15-12050601/S15-12050608	LM	2	Passed
7	12/14/06 14:06	12140607.D	P2603298-012 (0.70ml)	[redacted]1.6,10.0)	LM	2	
8	12/14/06 14:42	12140608.D	P2603298-013 (0.70ml)	[redacted]2.8,10.0)	LM	1	
9	12/14/06 15:19	12140609.D	P2603298-014 (10ml)	[redacted]1,10.2)	LM	1	
10	12/14/06 16:20	12140610.D	P2603371-010 (1000ml)	TRC WDI-IBM-49-12-0606 (-2.3,3.5)	LM	12	
11	12/14/06 17:03	12140611.D	P2603371-010 dup (1000ml)	TRC WDI-IBM-49-12-0606 (-2.3,3.5)	LM	12	
12	12/14/06 18:22	12140612.D	P2603371-011 (1000ml)	TRC WDI-IBM-21-12-06-06 (-3.6,3.6)	LM	5	
13	12/14/06 19:03	12140613.D	P2603389-001 (1000ml)	TRC WDI-VW-56-S-12-08-06 (-3.1,3.5)	LM	6	
14	12/14/06 19:44	12140614.D	P2603389-002 (1000ml)	TRC WDI-VW-56-S-12-08-06-SC (-3.3,3.5)	LM	7	
15	12/14/06 20:24	12140615.D	P2603389-003 (1000ml)	TRC WDI-VW-56-I-12-08-06 (-3.5,3.5)	LM	8	
16	12/14/06 21:05	12140616.D	P2603389-004 (1000ml)	TRC WDI-VW-56-D-12-08-06 (-3.2,3.5)	LM	9	
17	12/14/06 21:40	12140617.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	
18	12/14/06 22:16	12140618.D	P2603298-014 (400ml)	[redacted].1,10.2)	LM	4	
19	12/14/06 22:56	12140619.D	P2603396-001 (1000ml)	[redacted]3.7,3.5)	LM	13	
20	12/14/06 23:37	12140620.D	P2603396-003(1000ml)	[redacted]2.8,3.5)	LM	14	
21	12/15/06 0:17	12140621.D	P2603396-004 (1000ml)	[redacted]1.9,3.5)	LM	15	
22	12/15/06 0:58	12140622.D	P2603396-005 (1000ml)	[redacted]2.5,3.5)	LM	16	
23	12/15/06 1:39	12140623.D	P2603396-006 (1000ml)	[redacted](-2.6,3.5)	LM	10	
24	12/15/06 2:14	12140624.D	~~P2603396-006 (1000ml)~~	[redacted]	LM	12	

1	12/15/06 9:03	12150601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
2	12/15/06 10:15	12150602.D	TO-15 Method Blank (1000ml)	S15-12050601	LM	1	Passed
3	12/15/06 11:31	12150603.D	25ng TO-15 LCS Std	S15-12050601/S15-12050608	LM	2	Passed
4	12/15/06 12:13	12150604.D	25ng TO-15 LCSD Std	S15-12050601/S15-12050608	LM	2	Passed / Passed as Dup
5	12/15/06 12:50	12150605.D	1ng TO-15 CCV STD	S15-12050601/S15-12050605	LM	1	Passed
6	12/15/06 13:43	12150606.D	P2603371-009 DIL (100ml)	TRC WDI-IBM-3212-0606 (-2.5,3.6)	LM	11	Case file, Claim CSU
7	12/15/06 14:23	12150607.D	P2603389-003 DIL (100ml)	TRC WDI-VW-56-I-12-08-06 (-5.5,3.5)	LM	8	Case file, Rerun.
8	12/15/06 15:32	12150608.D	P2603~~911~~-001 (10ml)	[redacted].3 (-5.5,3.5)	LM	1	
9	12/15/06 16:19	12150609.D	P2603406-001 (30ml)	TRC WDI-IBM-50-10-06 (-3.7,3.6)	LM	4	Case file, Rerun higher
10	12/15/06 17:07	12150610.D	P2603406-003 (1000ml)	TRC WDI-IBM-24-12-10-06 (-2.7,3.5)	LM	5	
11	12/15/06 17:52	12150611.D	P2603406-003 dup (1000ml)	TRC WDI-IBM-24-12-10-06 (-2.7,3.5)	LM	5	Passed as Dup
12	12/15/06 18:57	12150612.D	P2603311-001 (10ml)	[redacted](0.3,3.5)	LM	4	
13	12/15/06 19:33	12150613.D	P2603311-001 (10ml)	TRC WDI-IBM-50-12-10-06 (-3.2,3.5)	LM	4	Case file, Rerun
14	12/15/06 20:09	12150614.D	P2603406-002 (50ml)	TRC WDI-IBM-28-12-10-06 (-3.2,3.5)	LM	6	
15	12/15/06 20:45	12150615.D	P2603406-004 (100ml)	TRC WDI-IBM-24B-12-10-06 (-2.5,3.5)	LM	7	
16	12/15/06 21:21	12150616.D	P2603389-004 dil (100ml)	TRC WDI-VW-56-D-12-08-06 (-3.2,3.5)	LM	9	
17	12/15/06 21:56	12150617.D	25ng CCV	S15-12050601/S15/12050606	LM	1	CCV outside 12 hours

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
TO-15 (SIM)	Air	MB	Method Blank P061218-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____
Aq. = Aqueous; S = Solid
2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603371

Veridian Environmental, Inc.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061218-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: 12/18/06
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.

all ND

Verified By: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371

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: 12/6/06
Date Received: 12/7/06
Date Analyzed: 12/18/06

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	P061218-MB	**98**	80-120	**94**	80-120	**104**	80-120	
Lab Control Sample	P061218-LCS	**109**	80-120	**94**	80-120	**104**	80-120	
Duplicate Lab Control Sample	P061218-DLCS	**99**	80-120	**93**	80-120	**105**	80-120	
WDI-IBM-41-12-06-06	P2603371-008	**97**	80-120	**93**	80-120	**94**	80-120	
WDI-IBM-32-12-06-06	P2603371-009	**99**	80-120	**94**	80-120	**108**	80-120	
WDI-IBM-32-12-06-06	P2603371-009DUP	**99**	80-120	**94**	80-120	**109**	80-120	
WDI-IBM-49-12-06-06	P2603371-010	**101**	80-120	**94**	80-120	**108**	80-120	
WDI-IBM-21-12-06-06	P2603371-011	**94**	80-120	**94**	80-120	**99**	80-120	

all OK

Verified By: MJ Date: 12/22/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603371
CAS Sample ID: P061218-LCS, P061218-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: 12/18/06
Volume(s) Analyzed: NA

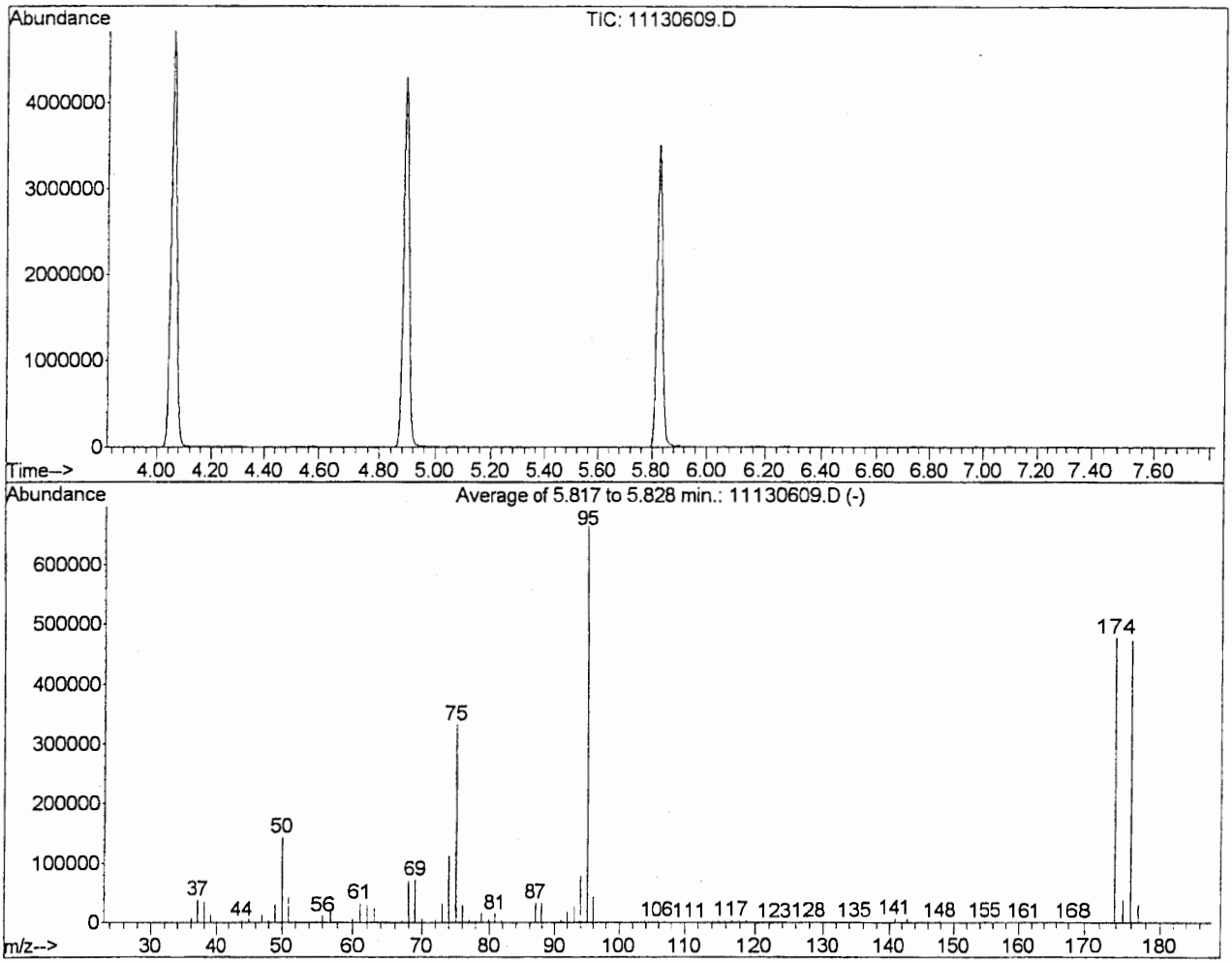
Compound	Spike Amt LCS/DLCS pg	Result LCS pg	Result DLCS pg	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Vinyl Chloride	495	494	509	**100**	**103**	65-135	**3**	35	
1,2-Dibromoethane	520	525	527	**101**	**101**	65-135	**0**	35	

all OK

Verified By: MW Date: 12/28/06

BFB

Data File : J:\MS07\DATA\2006_11\13\11130609.D Vial: 2
Acq On : 13 Nov 2006 13:43 Operator: AB
Sample : 25ng BFB Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM



AutoFind: Scans 499, 500, 501; Background Corrected with Scan 491

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.5	142904	PASS
75	95	30	66	49.9	331776	PASS
95	95	100	100	100.0	664533	PASS
96	95	5	9	6.5	43317	PASS
173	174	0.00	2	0.3	1558	PASS
174	95	50	120	71.8	477162	PASS
175	174	4	9	7.8	36997	PASS
176	174	93	101	98.9	472149	PASS
177	176	5	9	6.4	30226	PASS

11130609.D X7111306.M Mon Nov 13 18:14:57 2006 MSD7

Response Factor Report MSD7

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
Response via : Initial Calibration

Calibration Files
10 =11130610.D 25 =11130611.D 100 =11130612.D 250 =11130613.D 500 =11130614.D
1000 =11130615.D 2500 =11130616.D 9999 =11130617.D = =

		Compound	10	25	100	250	500	1000	2500	9999	Avg	%RSD
1)	I	Bromochloromethan	---ISTD---									
2)	T	Dichlorodifluorom	3.777	3.516	2.855	3.006	3.081	2.885	2.830	2.714	3.083	12.06
3)	T	Chloromethane			1.028	0.990	0.982	0.928	0.897	0.873	0.950	6.33
4)	T	Vinyl Chloride	2.816	2.930	2.386	2.518	2.583	2.621	2.578	2.476	2.613	6.83
5)	T	Chloroethane	1.470	1.383	1.221	1.238	1.251	1.192	1.187	1.177	1.265	8.35
6)	T	Acetone			3.037	2.411	2.103	1.777	1.799	1.563	2.115	25.53
7)	T	1,1-Dichloroethen	1.419	1.322	1.205	1.273	1.291	1.239	1.249	1.250	1.281	5.14
8)	T	Methylene Chlorid			1.418	1.478	1.512	1.440	1.431	1.372	1.442	3.37
9)	T	Trichlorotrifluor	1.454	1.254	1.078	1.117	1.166	1.103	1.082	1.067	1.165	11.32
10)	T	trans-1,2-Dichlor	1.383	1.417	1.314	1.405	1.456	1.389	1.380	1.390	1.392	2.87
11)	T	1,1-Dichloroethan	3.088	2.143	2.714	2.850	2.898	2.246	2.198	2.319	2.557	14.50
12)	T	Methyl tert-Butyl	4.154	3.883	4.112	4.268	4.373	3.774	3.626	3.684	3.984	7.04
13)	T	cis-1,2-Dichloroe	1.469	1.434	1.299	1.426	1.500	1.389	1.400	1.408	1.416	4.23
14)	T	Chloroform			2.248	2.301	2.318	2.109	1.990	1.983	2.158	7.04
15)	S	1,2-Dichloroethan	2.161	2.192	2.159	2.176	2.118	2.101	2.028	1.965	2.112	3.74
16)	T	1,2-Dichloroethan	1.813	1.974	1.817	1.937	2.020	1.926	1.924	1.912	1.915	3.70
17)	T	1,1,1-Trichloroet	2.291	2.082	2.004	2.145	2.192	2.056	2.043	2.043	2.107	4.56
18)	T	Benzene			9.907	7.648	7.061	6.299	6.123	6.059	7.183	20.48
19)	T	Carbon Tetrachlor	1.682	1.352	1.540	1.627	1.704	1.581	1.605	1.656	1.593	6.98
20)	I	1,4-Difluorobenze	---ISTD---									
21)	T	1,2-Dichloropropa	0.337	0.295	0.282	0.293	0.308	0.293	0.295	0.296	0.300	5.49
22)	T	Trichloroethene	0.360	0.256	0.228	0.234	0.241	0.230	0.232	0.240	0.253	17.53
23)	T	1,4-Dioxane	0.232	0.211	0.164	0.169	0.174	0.171	0.174	0.188	0.185	12.93
24)	T	cis-1,3-Dichlorop	0.389	0.358	0.363	0.410	0.417	0.404	0.417	0.446	0.400	7.32
25)	T	1,1,2-Trichloroet	0.237	0.219	0.199	0.210	0.216	0.208	0.212	0.219	0.215	5.07
26)	S	Toluene-d8 (SS2)	1.147	1.137	1.153	1.147	1.143	1.151	1.163	1.154	1.149	0.67
27)	T	Toluene		1.361	1.110	1.131	1.138	1.094	1.102	1.149	1.155	8.06

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

Response Factor Report MSD7

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
Response via : Initial Calibration

Calibration Files
10 =11130610.D 25 =11130611.D 100 =11130612.D 250 =11130613.D 500 =11130614.D
1000 =11130615.D 2500 =11130616.D 9999 =11130617.D = =

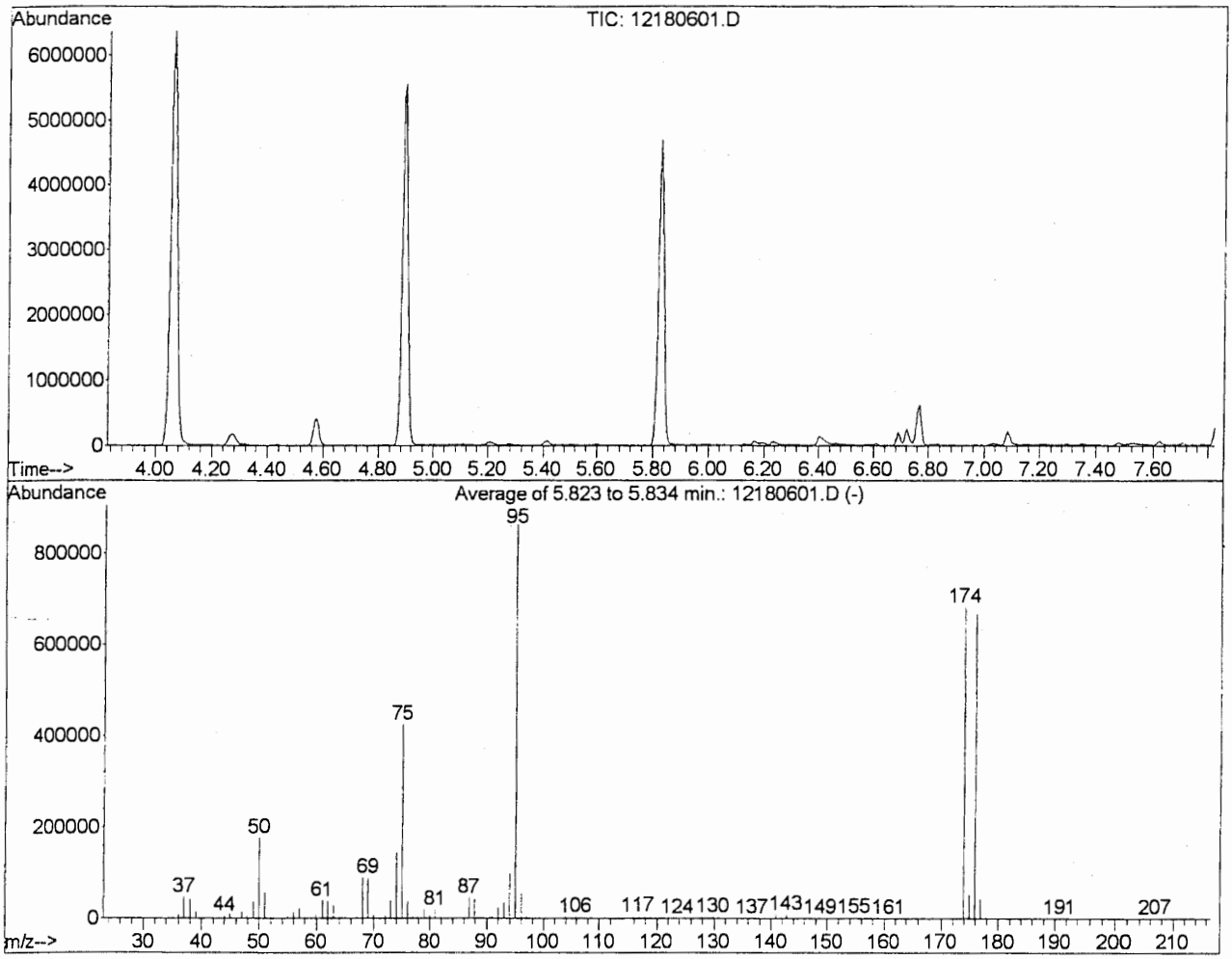
		Compound	10	25	100	250	500	1000	2500	9999	Avg	%RSD
28)	T	1,2-Dibromoethane	0.231	0.242	0.227	0.241	0.254	0.249	0.254	0.267	0.245	5.36
29)	T	Tetrachloroethene	0.258	0.236	0.226	0.241	0.247	0.237	0.239	0.245	0.241	3.84
30)	I	Chlorobenzene-d5	----------	----------	----------	----------	ISTD	----------	----------	----------		
31)	T	Chlorobenzene	1.396	1.243	1.194	1.245	1.277	1.223	1.218	1.274	1.259	4.93
32)	T	Ethylbenzene	2.697	2.441	2.199	2.315	2.385	2.284	2.313	2.471	2.388	6.39
33)	T	m-&-p-Xylene	1.780	1.527	1.337	1.430	1.495	1.450	1.472	1.585	1.509	8.69
34)	T	o-Xylene	1.699	1.630	1.499	1.586	1.647	1.582	1.594	1.700	1.617	4.14
35)	T	1,1,2,2-Tetrachlo	0.817	0.764	0.696	0.747	0.786	0.740	0.757	0.793	0.763	4.90
36)	S	Bromofluorobenzen	0.669	0.671	0.665	0.668	0.678	0.678	0.691	0.688	0.676	1.44
37)	T	1,3-Dichlorobenze	0.910	0.903	0.832	0.916	0.971	0.931	0.962	1.058	0.935	6.97
38)	T	1,4-Dichlorobenze	1.055	0.962	0.864	0.885	0.939	0.905	0.937	1.012	0.945	6.79
39)	T	1,2-Dichlorobenze	0.880	0.854	0.783	0.859	0.911	0.871	0.891	0.969	0.877	6.01
40)	T	1,2,4-Trichlorobe	0.770	0.695	0.316	0.491	0.539	0.537	0.555	0.652	0.569	24.39
41)	T	Naphthalene			0.938	1.436	1.620	1.631	1.716	2.038	1.563	23.31
42)	T	Hexachlorobutadie				0.313	0.351	0.338	0.347	0.378	0.345	6.79

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

BFB

✓

Data File : J:\MS07\DATA\2006_12\18\12180601.D Vial: 1
Acq On : 18 Dec 2006 9:45 Operator: AB
Sample : 25ng BFB Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM



AutoFind: Scans 500, 501, 502; Background Corrected with Scan 491

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.3	175680	PASS
75	95	30	66	49.2	424533	PASS
95	95	100	100	100.0	863573	PASS
96	95	5	9	6.3	54530	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	79.0	682432	PASS
175	174	4	9	7.7	52277	PASS
176	174	93	101	97.7	666624	PASS
177	176	5	9	6.5	43056	PASS

12180601.D X7111306.M Mon Dec 18 18:27:06 2006 MSD7

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2006_12\18\12180603.D Vial: 2
Acq On : 18 Dec 2006 10:38 Operator: AB
Sample : 500pg TO-15/SIM CCV std Inst : MSD7
Misc : S15-12050609/S15-12050610 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
Response via : Multiple Level Calibration

OK for Targets ✓

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	104	0.00	
2	T	Dichlorodifluoromethane	3.083	2.955	4.2	100	0.00	
3	T	Chloromethane	0.950	0.995	-4.7	105	0.00	
4	T	Vinyl Chloride	2.613	2.602	0.4	105	0.00	
5	T	Chloroethane	1.265	1.256	0.7	104	0.00	
6	T	Acetone	2.115	3.208	-51.7#	159	0.00	NTC
7	T	1,1-Dichloroethene	1.281	1.286	-0.4	104	0.00	
8	T	Methylene Chloride	1.442	1.474	-2.2	101	0.00	
9	T	Trichlorotrifluoroethane	1.165	1.141	2.1	102	0.00	
10	T	trans-1,2-Dichloroethene	1.392	1.393	-0.1	99	0.00	
11	T	1,1-Dichloroethane	2.557	2.413	5.6	87	0.00	
12	T	Methyl tert-Butyl Ether	3.984	4.370	-9.7	104	0.00	
13	T	cis-1,2-Dichloroethene	1.416	1.436	-1.4	100	0.00	
14	T	Chloroform	2.158	2.622	-21.5	118	0.00	
15	S	1,2-Dichloroethane-d4 (SS1)	2.112	1.998	5.4	98	0.00	
16	T	1,2-Dichloroethane	1.915	1.911	0.2	98	0.00	
17	T	1,1,1-Trichloroethane	2.107	2.160	-2.5	102	0.00	
18	T	Benzene	7.183	9.204	-28.1	135	0.00	
19	T	Carbon Tetrachloride	1.593	1.749	-9.8	107	0.00	
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	101	0.00	
21	T	1,2-Dichloropropane	0.300	0.297	1.0	98	0.00	
22	T	Trichloroethene	0.253	0.247	2.4	104	0.00	
23	T	1,4-Dioxane	0.185	0.192	-3.8	112	0.00	
24	T	cis-1,3-Dichloropropene	0.400	0.429	-7.2	104	0.00	
25	T	1,1,2-Trichloroethane	0.215	0.217	-0.9	102	0.00	
26	S	Toluene-d8 (SS2)	1.149	1.081	5.9	96	0.00	
27	T	Toluene	1.155	1.149	0.5	102	0.00	
28	T	1,2-Dibromoethane	0.245	0.257	-4.9	102	0.00	
29	T	Tetrachloroethene	0.241	0.248	-2.9	102	0.00	
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	104	0.00	
31	T	Chlorobenzene	1.259	1.286	-2.1	105	0.00	
32	T	Ethylbenzene	2.388	2.342	1.9	102	0.00	
33	T	m-&-p-Xylene	1.509	1.463	3.0	102	0.00	
34	T	o-Xylene	1.617	1.616	0.1	102	0.00	
35	T	1,1,2,2-Tetrachloroethane	0.763	0.764	-0.1	101	0.00	
36	S	Bromofluorobenzene (SS3)	0.676	0.711	-5.2	109	0.00	
37	T	1,3-Dichlorobenzene	0.935	0.978	-4.6	105	0.00	
38	T	1,4-Dichlorobenzene	0.945	0.958	-1.4	106	0.00	
39	T	1,2-Dichlorobenzene	0.877	0.919	-4.8	105	0.00	

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2006_12\18\12180603.D Vial: 2
Acq On : 18 Dec 2006 10:38 Operator: AB
Sample : 500pg TO-15/SIM CCV std Inst : MSD7
Misc : S15-12050609/S15-12050610 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	0.569	0.581	-2.1	112	0.00
41	T	Naphthalene	1.563	1.891	-21.0	122	0.00
42	T	Hexachlorobutadiene	0.345	0.371	-7.5	110	0.00

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2006_12\18\12180608.D Vial: 2
Acq On : 18 Dec 2006 12:55 Operator: AB
Sample : 25pg CRQL std Inst : MSD7
Misc : S15-12050609/S15-12050611 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
Response via : Multiple Level Calibration

ok for Targets

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	99	0.01
2	T	Dichlorodifluoromethane	3.083	3.502	-13.6	99	0.00
3	T	Chloromethane	0.950	2.102	-121.3#	0#	0.01
4	T	Vinyl Chloride	2.613	2.762	-5.7	93	0.01
5	T	Chloroethane	1.265	1.424	-12.6	102	0.00
6	T	Acetone	2.115	63.365	-2896.0#	0#	0.00
7	T	1,1-Dichloroethene	1.281	1.365	-6.6	102	0.01
8	T	Methylene Chloride	1.442	4.821	-234.3#	0#	0.01
9	T	Trichlorotrifluoroethane	1.165	1.262	-8.3	100	0.00
10	T	trans-1,2-Dichloroethene	1.392	1.286	7.6	90	0.02
11	T	1,1-Dichloroethane	2.557	2.213	13.5	102	0.00
12	T	Methyl tert-Butyl Ether	3.984	5.009	-25.7	128	0.05
13	T	cis-1,2-Dichloroethene	1.416	1.468	-3.7	101	0.01
14	T	Chloroform	2.158	5.296	-145.4#	0#	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	2.112	2.032	3.8	92	0.00
16	T	1,2-Dichloroethane	1.915	1.971	-2.9	99	0.01
17	T	1,1,1-Trichloroethane	2.107	2.257	-7.1	108	0.00
18	T	Benzene	7.183	86.180	-1099.8#	0#	0.00
19	T	Carbon Tetrachloride	1.593	1.847	-15.9	135	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	99	0.00
21	T	1,2-Dichloropropane	0.300	0.288	4.0	96	0.01
22	T	Trichloroethene	0.253	0.328	-29.6	126	0.01
23	T	1,4-Dioxane	0.185	0.222	-20.0	104	0.12
24	T	cis-1,3-Dichloropropene	0.400	0.347	13.3	96	0.02
25	T	1,1,2-Trichloroethane	0.215	0.220	-2.3	99	0.01
26	S	Toluene-d8 (SS2)	1.149	1.065	7.3	92	0.00
27	T	Toluene	1.155	1.573	-36.2#	114	0.00
28	T	1,2-Dibromoethane	0.245	0.235	4.1	96	0.03
29	T	Tetrachloroethene	0.241	0.249	-3.3	105	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	99	0.00
31	T	Chlorobenzene	1.259	2.041	-62.1#	163	0.00
32	T	Ethylbenzene	2.388	2.515	-5.3	102	0.00
33	T	m-&-p-Xylene	1.509	1.682	-11.5	110	0.02
34	T	o-Xylene	1.617	1.736	-7.4	106	0.00
35	T	1,1,2,2-Tetrachloroethane	0.763	0.854	-11.9	111	0.01
36	S	Bromofluorobenzene (SS3)	0.676	0.687	-1.6	102	0.00
37	T	1,3-Dichlorobenzene	0.935	1.086	-16.1	120	0.01
38	T	1,4-Dichlorobenzene	0.945	1.077	-14.0	111	0.01
39	T	1,2-Dichlorobenzene	0.877	1.082	-23.4	126	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2006_12\18\12180608.D Vial: 2
Acq On : 18 Dec 2006 12:55 Operator: AB
Sample : 25pg CRQL std Inst : MSD7
Misc : S15-12050609/S15-12050611 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	0.569	0.916	-61.0#	131	0.01
41	T	Naphthalene	1.563	3.926	-151.2#	0#	0.01
42	T	Hexachlorobutadiene	0.345	0.619	-79.4#	0#	0.00

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

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2006_12\18\12180614.D Vial: 2
Acq On : 18 Dec 2006 17:02 Operator: AB
Sample : 500pg TO-15/SIM CCV std Inst : MSD7
Misc : S15-12050609/S15-12050610 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
Response via : Multiple Level Calibration

Ok for Targets

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	102	0.01
2	T	Dichlorodifluoromethane	3.083	2.942	4.6	97	0.00
3	T	Chloromethane	0.950	0.936	1.5	97	0.00
4	T	Vinyl Chloride	2.613	2.554	2.3	101	0.00
5	T	Chloroethane	1.265	1.222	3.4	100	0.00
6	T	Acetone	2.115	2.486	-17.5	121	0.00
7	T	1,1-Dichloroethene	1.281	1.273	0.6	101	0.00
8	T	Methylene Chloride	1.442	1.434	0.6	97	0.01
9	T	Trichlorotrifluoroethane	1.165	1.125	3.4	98	0.00
10	T	trans-1,2-Dichloroethene	1.392	1.375	1.2	96	0.01
11	T	1,1-Dichloroethane	2.557	2.397	6.3	84	0.00
12	T	Methyl tert-Butyl Ether	3.984	4.138	-3.9	97	0.00
13	T	cis-1,2-Dichloroethene	1.416	1.421	-0.4	97	0.01
14	T	Chloroform	2.158	2.168	-0.5	95	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	2.112	1.977	6.4	95	0.00
16	T	1,2-Dichloroethane	1.915	1.873	2.2	95	0.00
17	T	1,1,1-Trichloroethane	2.107	2.084	1.1	97	0.00
18	T	Benzene	7.183	7.243	-0.8	105	0.00
19	T	Carbon Tetrachloride	1.593	1.620	-1.7	97	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	101	0.00
21	T	1,2-Dichloropropane	0.300	0.290	3.3	95	0.00
22	T	Trichloroethene	0.253	0.238	5.9	100	0.00
23	T	1,4-Dioxane	0.185	0.182	1.6	106	0.00
24	T	cis-1,3-Dichloropropene	0.400	0.407	-1.7	98	0.00
25	T	1,1,2-Trichloroethane	0.215	0.208	3.3	97	0.00
26	S	Toluene-d8 (SS2)	1.149	1.062	7.6	94	0.00
27	T	Toluene	1.155	1.125	2.6	100	0.00
28	T	1,2-Dibromoethane	0.245	0.247	-0.8	98	0.00
29	T	Tetrachloroethene	0.241	0.242	-0.4	99	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	100	0.00
31	T	Chlorobenzene	1.259	1.298	-3.1	101	0.00
32	T	Ethylbenzene	2.388	2.362	1.1	99	0.00
33	T	m-&-p-Xylene	1.509	1.468	2.7	98	0.00
34	T	o-Xylene	1.617	1.627	-0.6	98	0.00
35	T	1,1,2,2-Tetrachloroethane	0.763	0.765	-0.3	97	0.00
36	S	Bromofluorobenzene (SS3)	0.676	0.709	-4.9	104	0.00
37	T	1,3-Dichlorobenzene	0.935	0.983	-5.1	101	0.00
38	T	1,4-Dichlorobenzene	0.945	0.954	-1.0	101	0.00
39	T	1,2-Dichlorobenzene	0.877	0.917	-4.6	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2006_12\18\12180614.D Vial: 2
Acq On : 18 Dec 2006 17:02 Operator: AB
Sample : 500pg TO-15/SIM CCV std Inst : MSD7
Misc : S15-12050609/S15-12050610 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	0.569	0.552	3.0	102	0.00
41	T	Naphthalene	1.563	1.701	-8.8	105	0.00
42	T	Hexachlorobutadiene	0.345	0.351	-1.7	100	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603371

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: 12180603.D
Date Analyzed: 12/18/06
Time Analyzed: 10:38

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	36614	4.94	198593	6.26	106407	9.85
	Upper Limit	51260	5.27	278030	6.59	148970	10.18
	Lower Limit	21968	4.61	119156	5.93	63844	9.52
	Client Sample ID						
01	Method Blank	33376	4.95	199376	6.27	106114	9.85
02	Lab Control Sample	30999	4.94	193955	6.26	102445	9.84
03	Duplicate Lab Control Sample	33824	4.94	191873	6.26	100021	9.85
04	WDI-IBM-49-12-06-06	37326	4.95	203149	6.26	105635	9.85
05	WDI-IBM-32-12-06-06	36541	4.95	197150	6.26	97564	9.85
06	WDI-IBM-41-12-06-06	34822	4.95	190889	6.27	103237	9.85
07	WDI-IBM-32-12-06-06 (Lab Duplicate)	36743	4.95	199068	6.26	97127	9.85
08	WDI-IBM-21-12-06-06	36378	4.94	190262	6.26	99892	9.85
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: pu Date: 12/22/06

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
24	11/10/06 23:44	11100624.D	blank pos C (200ml)		AB	1	
25	11/11/06 0:12	11100625.D	blank pos C (200ml)		AB	1	
26	11/11/06 0:40	11100626.D	blank pos C (200ml)		AB	1	Benzene ~ 5 ng
1	11/11/06 10:27	11110601.D	blank (100ml)		AB	2	Benzene ~ 5 ng
2	11/11/06 10:54	11110602.D	blank (100ml)		AB	2	
3	11/11/06 11:22	11110603.D	blank (100ml)		AB	2	
4	11/11/06 11:50	11110604.D	blank (100ml)		AB	2	
5	11/11/06 12:18	11110605.D	blank (100ml)		AB	2	
1	11/13/06 9:01	11130601.D	blank (100ml)	pos. C	AB	2	
2	11/13/06 9:35	11130602.D	blank (100ml)	pos. C	AB	3	
3	11/13/06 10:30	11130603.D	IS/SURR check	pos. C S15-11130601	AB	4	
4	11/13/06 11:25	11130604.D	100pg std	S15-11130601/S15-11060603	AB	2	
5	11/13/06 11:53	11130605.D	10pg std	S15-11130601/S15-11060604	AB	2	
6	11/13/06 12:21	11130606.D	2000pg std	S15-11130601/S15-10260603	AB	2	
7	11/13/06 12:49	11130607.D	blank (200ml)		AB	2	
8	11/13/06 13:18	11130608.D	blank (200ml)		AB	2	
9	11/13/06 13:43	11130609.D	25ng BFB		AB	2	PASSED
10	11/13/06 14:10	11130610.D	10pg TO-15/SIM ICAL std	S15-11130601/S15-11060604	AB	2	Ical Good For All CMPD
11	11/13/06 14:38	11130611.D	25pg TO-15/SIM ICAL std	S15-11130601/S15-11060604	AB	3	- See folder
12	11/13/06 15:07	11130612.D	100pg TO-15/SIM ICAL std	S15-11130601/S15-11060603	AB	4	
13	11/13/06 15:35	11130613.D	250pg TO-15/SIM ICAL std	S15-11130601/S15-11060603	AB	5	
14	11/13/06 16:06	11130614.D	500pg TO-15/SIM ICAL std	S15-11130601/S15-11060603	AB	6	
15	11/13/06 16:33	11130615.D	1000pg TO-15/SIM ICAL std	S15-11130601/S15-11060603	AB	7	
16	11/13/06 17:02	11130616.D	2500pg TO-15/SIM ICAL std	S15-11130601/S15-11060603	AB	8	
17	11/13/06 17:30	11130617.D	10000pg TO-15/SIM ICAL std	S15-11130601/S15-10260603	AB	9	
18	11/13/06 17:58	11130618.D	500pg TO-15/SIM ICV std	S15-11130601/S15-10160607	AB	2	Passed.

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
	12/18/06 9:45	12180601.D	25ng BFB		AB	1	PASSED
	12/18/06 10:10	12180602.D	Blank (100ml)		AB	2	
✓	12/18/06 10:38	12180603.D	500pg TO-15/SIM CCV std	S15-12050609/S15-12050610	AB	2	PASSED, Acetone Biased High
	12/18/06 11:14	12180604.D	TO-15/SIM Method Blank (1000ml)	S15-12050609	AB	2	PASSED NO 12180605.D PAS. & RAN WRONG
	12/18/06 11:52	12180606.D	500pg TO-15/SIM LCS ~~Dup~~	S15-12050609/S15-12120601	AB	4	PASSED Acetone, MTBE, Chloro-Fo... Biased Hi
	12/18/06 12:21	12180607.D	500pg TO-15/SIM LCS Dup	S15-12050609/S15-12120601	AB	4	PASSED AS DUP
✓	12/18/06 12:55	12180608.D	25pg CRQL std	S15-12050609/S15-12050611	AB	2	MRL check TRC
8	12/18/06 14:36	12180609.D	P2603371-010 (1000ml)	TRC WDI-IBM-49-12-06-06 (-2.3, 3.5)	AB	9	
9	12/18/06 15:06	12180610.D	P2603371-009 (700ml)	TRC WDI-IBM-32-12-06-06 (-2.5, 3.6)	AB	10	
✓ 10	12/18/06 15:33	12180611.D	P2603371-008 (20ml)	TRC WDI-IBM-41-12-06-06 (-2.7, 3.5)	AB	11	
11	12/18/06 16:04	12180612.D	P2603371-009 Dup (700ml)	TRC WDI-IBM-32-12-06-06 (-2.5, 3.6)	AB	10	PASSED AS DUP
12	12/18/06 16:32	12180613.D	P2603371-011 (100ml)	TRC WDI-IBM-21-12-06-06 (-3.6, 3.6)	AB	12	
✓ 13	12/18/06 17:02	12180614.D	500pg TO-15/SIM CCV std	S15-12050609/S15-12050610	AB	2	PASSED CLOSING CCV (TRC)
14	12/18/06 18:43	12180615.D	P2603412-001 (1000ml)	[redacted]	AB	5	
15	12/18/06 19:15	12180616.D	P2603412-002 (1000ml)	[redacted]	AB	6	
16	12/18/06 19:48	12180617.D	P2603412-004 (1000ml)	[redacted]	AB	7	
17	12/18/06 20:21	12180618.D	P2603412-006 (1000ml)	[redacted]	AB	8	
18	12/18/06 20:55	12180619.D	P2603412-007 (1000ml)	[redacted]	AB	9	
19	12/18/06 21:28	12180620.D	P2603412-008 (1000ml)	[redacted]	AB	10	
20	12/18/06 22:00	12180621.D	P2603412-010 (1000ml)	[redacted]	AB	11	
21	12/18/06 22:32	12180622.D	P2603412-011 (1000ml)	[redacted]	AB	12	
22	12/18/06 23:05	12180623.D	P2603412-012 (1000ml)	[redacted]	AB	13	
23	12/18/06 23:39	12180624.D	P2603412-015 (1000ml)	[redacted]	AB	14	
24	12/19/06 0:07	12180625.D	P2603412-017 DIL (100ml)	[redacted]	AB	15	
25	12/19/06 0:36	12180626.D	Blank (100ml)		AB	2	
26	12/19/06 1:09	12180627.D	[redacted]an QC1 dr 12/18/06 (1000ml)	K659	AB	16	PASSED

nment
SED
ED
ED
ED
ED
PASSED AS MB
SED
ED AS DUP
/PASSED [redacted]
ED
[redacted]
[redacted]
dil not needed
AS DUP
dil not needed
dil not needed
AS DUP
dil not needed
dil not needed
[redacted] CLOSING

2. SDG P2603389

Included for completeness only.
No samples were reviewed in SDG.

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

January 12, 2007

Mr. Yasser Fahmy
TRC
21 Technology Drive
Irvine, CA 92618

RE: P2603389
WDI

Dear Mr. Fahmy:

Enclosed are the results of the sample(s) submitted to our laboratory on December 11, 2006. For your reference, these analyses have been assigned our service request number P2603389.

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 73 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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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

LABORATORY REPORT

Client:	TRC	Date of Report:	01/12/07
Address:	21 Technology Drive	Date Received:	12/11/06
	Irvine, CA 92618	CAS Project No:	P2603389
Contact:	Mr. Yasser Fahmy	Purchase Order:	Verbal

Client Project ID: WDI

Four (4) Stainless Steel Summa Canisters labeled:

"WDI-VW-56-S-12-08-06" "WDI-VW-56-S-12-08-06-SC"
"WDI-VW-56-I-12-08-06" "WDI-VW-56-D-12-08-06"

The samples were received at the laboratory under chain of custody on December 11, 2006. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Methane and Total Gaseous Non-Methane Organics as Methane Analysis

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

Fixed Gases Analysis

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

Reviewed and Approved:

Liliana Marghitoiu
Analytical Chemist
Air Quality Laboratory

Reviewed and Approved:

Wade Henton
GC-VOA Team Leader
Air Quality Laboratory

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Columbia Analytical Services INC.
An Employee - Owned Company

CAS Project No: P2603389

Volatile Organic Compound Analysis

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

The results of analyses are given on the attached data sheets. 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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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. 92603389

CAS Contact

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

Project Name: WDI

Project Number:

Project Manager: YASSER FAHMY

Phone: (949) 727-9336 Fax: (949) 753-0111

P.O. # / Billing Information:

Email Address for Result Reporting: YFAHMY@TRCSOLUTIONS.COM

Sampler (Print & Sign): STEVEN CRAWFORD Steven Crawford

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume	TO-15	EPA 25 C MODIFIED (TOTAL METHANE ORGANIC CARBON)	EPA 3C MODIFIED (METHANE)		Comments e.g. Actual Preservative or specific instructions
WDI-VW-56-S-12-08-06	1	12-08-06	1208	AIR	SC00414	6V-.5-083	6L	X	X	X		
WDI-VW-56-S-12-08-06-SC	2	12-08-06	1208	AIR	SC00467	6V-.5-115	6L	X	X	X		
WDI-VW-56-I-12-08-06	3	12-08-06	1208	AIR	SC00239	6V-.5-096	6L	X	X	X		
WDI-VW-56-O-12-08-06	4	12-08-06	1208	AIR	SC00109	6V-.5-090	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	12-08-06	0150	[signature]	12/8/06	1530
[signature]	12/10/06	0800	[signature]	12/11/06	0800

Cooler / Blank 10150
Temperature 10820 °C

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603389
CAS Sample ID: P061212-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: 12/12/06
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: W Date: 12/26/06

03389SVG.RE2 -MBlank

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603389
CAS Sample ID: P061212-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: 12/12/06
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Methane	57.5	52.3	91	90-110	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	345	313	91	90-110	

Verified By: μ Date: 12/26/06

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

PERFORMANCE ANALYTICAL INC.

ZW 12/12/06

EPA 25C TCA/FID Analysis for TGNMO

Client & PAI Job# : TRC P2603389
Analyst : WHH
Sample amount : 500uL / 68uL

Printed : 12/12/06
Instrument : GC #1 / FID #1
Date analyzed : 12/12/06

Sample Results (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGNMO-2	Pi1	Pf1	Pi2	Pf2
STD 120ppm S14-101106	104.1	81.2	100.3	117.0					
ACTUAL	100.4	80.7	99.7	120.0					
% DIFF.	3.7%	0.6%	0.6%	2.5%					
MB NL	0.00	0.00	0.00	0.00	0.00				
LAB AIR NL	1.17	1.94	485.01	0.00	0.00				
3389-001 v	0.00	2.08	v	2.76	0.00	-3.1	3.5		
3389-002 v	0.00	1.82	v	3.44	0.00	-3.3	3.5		
3389-003 v	0.93	2.33	v	4.04	0.00	-3.5	3.5		
3389-004 v	1.43	2.27	v	4.50	0.00	-3.2	3.5		

LCS 57/345ppm	55.08	52.34	54.82	312.89
ACTUAL	57.9	57.5	57.9	345.0
% Recovery	95.1%	91.0%	94.7%	90.7%
STD 120ppm S14-101106	107.58	82.43	117.76	122.53
ACTUAL	100.4	80.7	99.7	120.0
% DIFF.	7.2%	2.2%	18.1%	2.1%

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	ND	ND	ND	1.00	1.00	1.00
LAB AIR NL	1.17	1.94	485.01	ND	ND	1.00	1.00	1.00
3389-001 v	ND	3.27	VENT	4.33	0.72	1.00	1.00	1.57
3389-002 v	ND	2.91	VENT	5.49	0.91	1.00	1.00	1.60
3389-003 v	ND	3.79	VENT	6.56	1.09	1.00	1.00	1.63
3389-004 v	ND	3.59	VENT	7.13	1.19	1.00	1.00	1.58

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

.ine	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
8	1	10200608.d	1.		STD 25C mid level small loop	S14-10110605	20 Oct 106 12::0
9	1	10200609.d	1.		STD 25C mid level normal loop	S14-10110605	20 Oct 106 12::2
10	1	10200610.d	1.		STD 25C high level small loop	S14-10200601	20 Oct 106 12::1
11	1	10200611.d	1.		STD 25C high level normal loop	S14-10200601	20 Oct 106 12::3
12	1	10200612.d	1.		ICV S14-03270602		20 Oct 106 12::5
13	1	10200613.d	1.		ICV S14-03270602	aprox 100/80ppm	20 Oct 106 12::2
14	1	10200614.d	1.	X	MB electrical noise		20 Oct 106 12::3
15	1	10200615.d	1.		MB good		20 Oct 106 12::0
16	1	10200616.d	1.		MB		20 Oct 106 12::2

WE 10/23/06

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

DATE: 12 / 12 / 2006 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 / 2006-12/12 METHOD FILE NAME: J:\GC1\METHODS\ M102006 .M

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD 514-10110605		WK
02	↓		
03	MB		
04	Lab Air		
05	LCS 514-0405060 2		
06	X		
07	3371-001 ✓		
08	002 ✓		
09	003 ✓		
10	004 ✓		
11	004Dup ✓		
12	005 ✓		
13	006 ✓		
14	007 ✓		
15	↓ 008 ✓		
16	STD 514-10110605		
17	3371-009 ✓		
18	010 ✓		
19	↓ 011 ✓		
20	3389-001 ✓		↓

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	3389-001 ✓		WK
22	X		
23	3389-002 ✓		
24	003 ✓		
25	↓ 004 ✓		
26	STD 514-10110607		
27	↓		↓
28			
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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603389
CAS Sample ID: P061212-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/12/06
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: W Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603389
CAS Sample ID: P061212-LCS

Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/12/06
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Oxygen + Argon *	219,000	230,000	**105**	90-110	
Nitrogen	780,000	818,000	**105**	90-110	

Verified By: MV Date: 12/20/06

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

ZW 12/12/06

COLUMBIA ANALYTICAL INC.

EPA 3C GC/TCD Analysis for Fixed Gases

Client & PAI Job# : TRC P2603389
Analyst : WHH
Sample amount : ~100uL

Printed : 12/12/06
Instrument : GC #1 / TCD #1
Date analyzed : 12/12/06

Sample Result

Sample ID	Hydrogen	O2/Ar	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	Pi1	Pf1	Pi2	Pf2
STD-50000ppm	37173	51597	50371	52449	42311	52897				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	7.3%	3.3%	0.3%	4.8%	5.6%	5.0%				
MB	0	0	0	0	0	0				
LAB AIR	0	230102	817569	0	0	526				
3389-001	0	31276	603627	0	0	92825	-3.1	3.5		
3389-002	0	26433	557638	0	0	87244	-3.3	3.5		
3389-003	0	18292	522543	0	0	111441	-3.5	3.5		
3389-004	0	22574	536578	0	0	110860	-3.2	3.5		

STD 50000ppm S14-09	38180	52643	51079	53278	43278	53975
ACTUAL	40100	49970	50540	50050	40050	50360
% DIFFER.	4.8%	5.3%	1.1%	6.4%	8.1%	7.2%

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	230102	817569	0	0	526	104.8	1.00
3389-001	0	49071	947071	0	0	145639	114.2	1.57
3389-002	0	42200	890265	0	0	139284	107.2	1.60
3389-003	0	29725	849132	0	0	181092	106.0	1.63
3389-004	0	35726	849193	0	0	175448	106.0	1.58

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	37173	51597	50371	52449	42311	52897	
MB	ND	ND	ND	ND	ND	ND	
LAB AIR	ND	219500	779898	ND	ND	502	99.99
3389-001	ND	42974	829385	ND	ND	127542	99.99
3389-002	ND	39371	830583	ND	ND	129947	99.99
3389-003	ND	28041	801026	ND	ND	170833	99.99
3389-004	ND	33688	800768	ND	ND	165443	99.99

Directory: j:\gc0\data\xg\2006_06\21

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	08210601.d	10.	Test		21 Aug 106 12::5
2	4	08210602.d	10.	Test		21 Aug 106 13::5
3	4	08210603.d	10.	MB		21 Aug 106 13::0
4	4	08210604.d	10.	test		21 Aug 106 12::1
5	4	08210605.d	10.	STD 1 S14-03260601 (loop 0.17)		21 Aug 106 12::3
6	4	08210606.d	10.	STD 2 S14-04120602 (loop 0.17)		21 Aug 106 12::1
7	5	08210607.d	10.	STD 3 S14-04120602 (loop 1.00)		21 Aug 106 12::3
8	5	08210608.d	10.	STD 4 S14-04120602 (loop 10.47)		21 Aug 106 12::4
9	5	08210609.d	10.	STD 5 S14-~~05~~ 4120602 (loop 18.0)		21 Aug 106 12::5
10	5	08210610.d	10.	lab air	12/11/06	21 Aug 106 12::1
11	5	08210611.d	10.	icv		21 Aug 106 12::2
12	5	08210612.d	10.	ICV S14-07110501		21 Aug 106 12::5
13	5	08210613.d	10.	blank		21 Aug 106 12::1

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603389
CAS Sample ID: P061214-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: 12/14/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

Verified By: LJ Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603389
CAS Sample ID: P061214-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: 12/14/06
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: NJ Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603389
CAS Sample ID: P061218-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: 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

Verified By: LW Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603389
CAS Sample ID: P061218-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: 12/18/06
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: W Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603389

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: 12/8/06
Date Received: 12/11/06
Date Analyzed: 12/14 - 12/18/06

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	P061214-MB	**97**	80-120	**98**	80-120	**102**	80-120	
Method Blank	P061218-MB	**91**	80-120	**101**	80-120	**108**	80-120	
Lab Control Sample	P061214-LCS	**100**	80-120	**98**	80-120	**100**	80-120	
Lab Control Sample	P061218-LCS	**91**	80-120	**99**	80-120	**107**	80-120	
Duplicate Lab Control Sample	P061214-DLCS	**99**	80-120	**95**	80-120	**102**	80-120	
Duplicate Lab Control Sample	P061218-DLCS	**91**	80-120	**100**	80-120	**108**	80-120	
WDI-VW-56-S-12-08-06	P2603389-001	**88**	80-120	**99**	80-120	**107**	80-120	
WDI-VW-56-S-12-08-06-SC	P2603389-002	**85**	80-120	**101**	80-120	**108**	80-120	
WDI-VW-56-I-12-08-06	P2603389-003	**86**	80-120	**101**	80-120	**108**	80-120	
WDI-VW-56-D-12-08-06	P2603389-004	**86**	80-120	**100**	80-120	**108**	80-120	

Verified By: LW Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603389
CAS Sample ID: P061214-LCS, P061214-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: 12/14/06
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	23.1	23.1	**95**	**95**	65-135	**0**	35	
Vinyl Chloride	24.8	22.5	23.4	**91**	**94**	65-135	**3**	35	
Bromomethane	25.0	22.5	23.0	**90**	**92**	65-135	**2**	35	
Chloroethane	25.0	22.2	22.4	**89**	**90**	65-135	**1**	35	
Acetone	26.5	23.8	23.9	**90**	**90**	65-135	**0**	35	
Trichlorofluoromethane	24.3	22.8	22.9	**94**	**94**	65-135	**0**	35	
1,1-Dichloroethene	27.3	24.8	24.9	**91**	**91**	65-135	**0**	35	
Methylene chloride	26.8	23.6	23.6	**88**	**88**	65-135	**0**	35	
Trichlorotrifluoroethane	27.0	23.0	23.4	**85**	**87**	65-135	**2**	35	
Carbon Disulfide	25.0	23.1	23.2	**92**	**93**	65-135	**1**	35	
trans-1,2-Dichloroethene	26.3	24.8	24.8	**94**	**94**	65-135	**0**	35	
1,1-Dichloroethane	26.3	24.6	24.7	**94**	**94**	65-135	**0**	35	
Methyl tert-Butyl Ether	26.3	23.9	24.2	**91**	**92**	65-135	**1**	35	
Vinyl Acetate	24.3	22.3	22.3	**92**	**92**	65-135	**0**	35	
2-Butanone (MEK)	26.8	25.0	25.2	**93**	**94**	65-135	**1**	35	
cis-1,2-Dichloroethene	26.5	24.7	24.9	**93**	**94**	65-135	**1**	35	
Chloroform	30.0	26.2	26.3	**87**	**88**	65-135	**1**	35	
1,2-Dichloroethane	26.0	25.3	25.5	**97**	**98**	65-135	**1**	35	
1,1,1-Trichloroethane	26.3	23.5	24.9	**89**	**95**	65-135	**7**	35	
Benzene	26.3	23.3	23.6	**89**	**90**	65-135	**1**	35	
Carbon Tetrachloride	25.8	24.8	25.4	**96**	**98**	65-135	**2**	35	
1,2-Dichloropropane	26.0	23.9	24.6	**92**	**95**	65-135	**3**	35	

Verified By: μ Date: 12/21/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603389
CAS Sample ID: P061214-LCS, P061214-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: 12/14/06
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	26.4	27.0	**96**	**98**	65-135	**2**	35	
Trichloroethene	27.3	25.4	25.5	**93**	**93**	65-135	**0**	35	
cis-1,3-Dichloropropene	26.0	23.3	23.6	**90**	**91**	65-135	**1**	35	
4-Methyl-2-pentanone	26.5	26.2	26.6	**99**	**100**	65-135	**1**	35	
trans-1,3-Dichloropropene	27.8	26.2	26.9	**94**	**97**	65-135	**3**	35	
1,1,2-Trichloroethane	25.8	24.3	24.2	**94**	**94**	65-135	**0**	35	
Toluene	26.0	23.7	23.5	**91**	**90**	65-135	**1**	35	
2-Hexanone	26.0	25.1	25.3	**97**	**97**	65-135	**0**	35	
Dibromochloromethane	26.5	25.2	24.6	**95**	**93**	65-135	**2**	35	
1,2-Dibromoethane	26.0	24.4	23.8	**94**	**92**	65-135	**2**	35	
Tetrachloroethene	25.8	23.5	22.6	**91**	**88**	65-135	**3**	35	
Chlorobenzene	26.0	23.8	23.7	**92**	**91**	65-135	**1**	35	
Ethylbenzene	25.8	23.9	23.7	**93**	**92**	65-135	**1**	35	
m,p-Xylenes	61.5	57.3	57.1	**93**	**93**	65-135	**0**	35	
Bromoform	31.3	29.1	29.0	**93**	**93**	65-135	**0**	35	
Styrene	25.8	23.9	24.1	**93**	**93**	65-135	**0**	35	
o-Xylene	29.0	26.4	27.0	**91**	**93**	65-135	**2**	35	
1,1,2,2-Tetrachloroethane	29.3	26.6	27.1	**91**	**92**	65-135	**1**	35	
1,3-Dichlorobenzene	25.3	22.6	23.2	**89**	**92**	65-135	**3**	35	
1,4-Dichlorobenzene	26.0	23.5	24.0	**90**	**92**	65-135	**2**	35	
1,2-Dichlorobenzene	25.5	23.2	23.7	**91**	**93**	65-135	**2**	35	

Verified By: KJ Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603389
CAS Sample ID: P061218-LCS, P061218-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: 12/18/06
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	21.7	21.5	89	88	65-135	1	35	
Vinyl Chloride	24.8	20.9	22.3	84	90	65-135	7	35	
Bromomethane	25.0	22.5	23.2	90	93	65-135	3	35	
Chloroethane	25.0	21.6	21.8	86	87	65-135	1	35	
Acetone	26.5	23.3	23.1	88	87	65-135	1	35	
Trichlorofluoromethane	24.3	21.7	21.4	89	88	65-135	1	35	
1,1-Dichloroethene	27.3	24.6	24.5	90	90	65-135	0	35	
Methylene chloride	26.8	23.2	23.2	87	87	65-135	0	35	
Trichlorotrifluoroethane	27.0	24.1	24.6	89	91	65-135	2	35	
Carbon Disulfide	25.0	22.3	22.5	89	90	65-135	1	35	
trans-1,2-Dichloroethene	26.3	23.3	23.2	89	88	65-135	1	35	
1,1-Dichloroethane	26.3	23.2	22.7	88	86	65-135	2	35	
Methyl tert-Butyl Ether	26.3	22.6	22.7	86	86	65-135	0	35	
Vinyl Acetate	24.3	21.9	21.8	90	90	65-135	0	35	
2-Butanone (MEK)	26.8	24.3	24.6	91	92	65-135	1	35	
cis-1,2-Dichloroethene	26.5	22.9	22.8	86	86	65-135	0	35	
Chloroform	30.0	24.7	24.4	82	81	65-135	1	35	
1,2-Dichloroethane	26.0	22.7	22.5	87	87	65-135	0	35	
1,1,1-Trichloroethane	26.3	23.3	23.1	89	88	65-135	1	35	
Benzene	26.3	22.9	22.6	87	86	65-135	1	35	
Carbon Tetrachloride	25.8	24.0	23.8	93	92	65-135	1	35	
1,2-Dichloropropane	26.0	23.2	22.8	89	88	65-135	1	35	

Verified By: MV Date: 12/26/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603389
CAS Sample ID: P061218-LCS, P061218-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: 12/18/06
Volume(s) Analyzed: NA

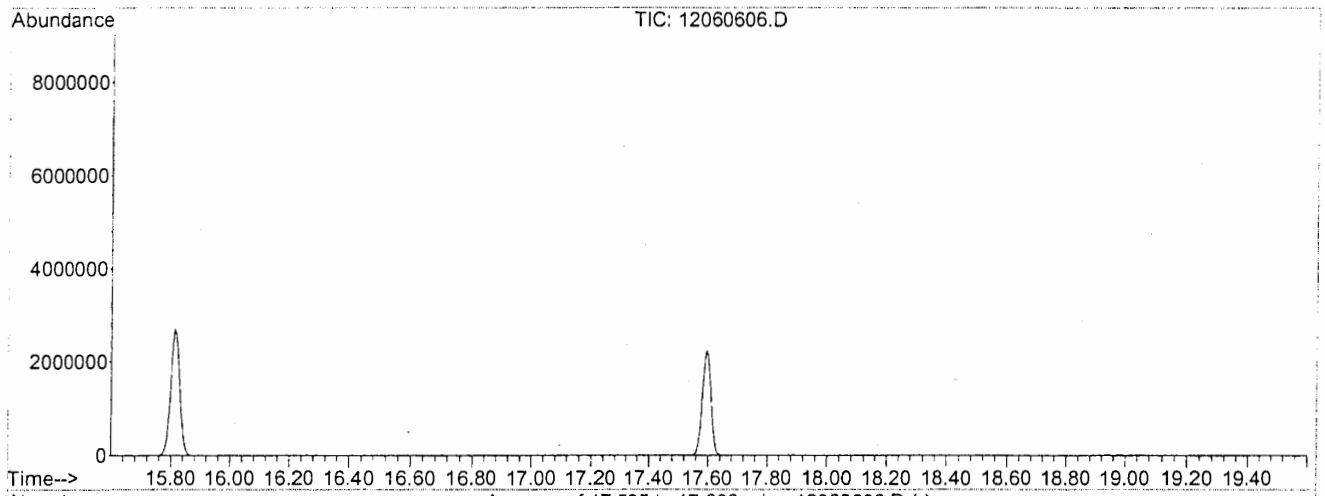
Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	25.1	24.5	91	89	65-135	2	35	
Trichloroethene	27.3	25.4	25.2	93	92	65-135	1	35	
cis-1,3-Dichloropropene	26.0	22.0	21.9	85	84	65-135	1	35	
4-Methyl-2-pentanone	26.5	24.7	24.3	93	92	65-135	1	35	
trans-1,3-Dichloropropene	27.8	24.8	24.4	89	88	65-135	1	35	
1,1,2-Trichloroethane	25.8	23.3	23.0	90	89	65-135	1	35	
Toluene	26.0	23.3	23.5	90	90	65-135	0	35	
2-Hexanone	26.0	23.8	23.7	92	91	65-135	1	35	
Dibromochloromethane	26.5	24.8	25.0	94	94	65-135	0	35	
1,2-Dibromoethane	26.0	24.1	24.2	93	93	65-135	0	35	
Tetrachloroethene	25.8	23.6	23.6	91	91	65-135	0	35	
Chlorobenzene	26.0	23.6	23.7	91	91	65-135	0	35	
Ethylbenzene	25.8	23.2	23.3	90	90	65-135	0	35	
m,p-Xylenes	61.5	56.5	56.7	92	92	65-135	0	35	
Bromoform	31.3	29.7	29.7	95	95	65-135	0	35	
Styrene	25.8	24.5	24.5	95	95	65-135	0	35	
o-Xylene	29.0	26.7	26.8	92	92	65-135	0	35	
1,1,2,2-Tetrachloroethane	29.3	26.6	26.7	91	91	65-135	0	35	
1,3-Dichlorobenzene	25.3	23.4	23.6	92	93	65-135	1	35	
1,4-Dichlorobenzene	26.0	24.3	24.4	93	94	65-135	1	35	
1,2-Dichlorobenzene	25.5	23.7	24.0	93	94	65-135	1	35	

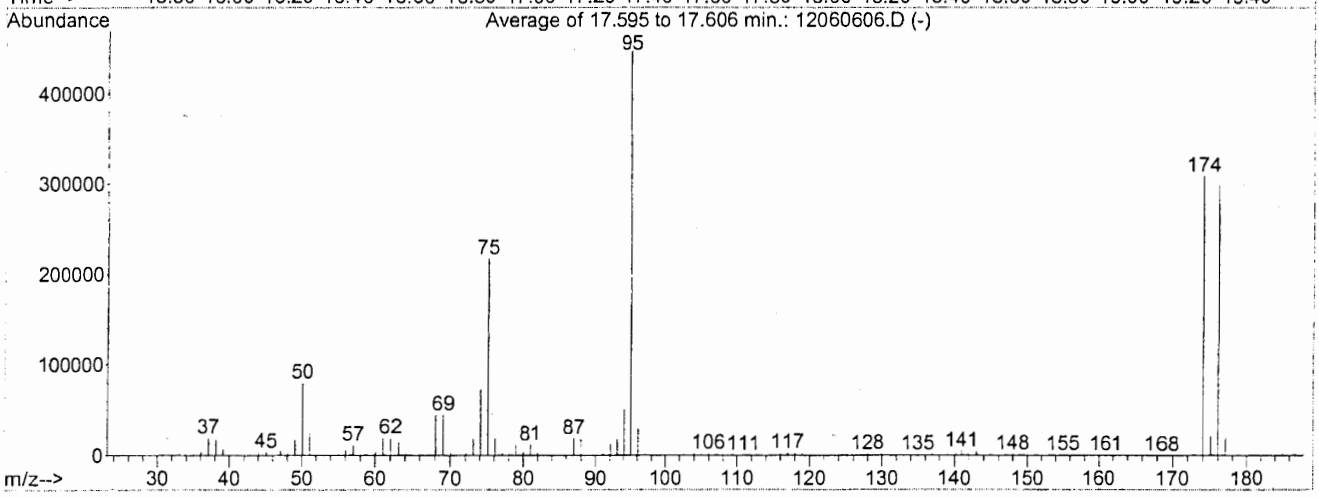
Verified By: MV Date: 12/26/06

Data Path : J:\MS08\Data\2006_012\06\
Data File : 12060606.D
Acq On : 6 Dec 2006 15:30
Operator : LM
Sample : 25ng TO-15 BFB
Misc : S15-12050601
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 01 11:40:51 2006





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.8	79581	PASS
75	95	30	66	48.6	217322	PASS
95	95	100	100	100.0	446976	PASS
96	95	5	9	6.5	28912	PASS
173	174	0.00	2	0.2	734	PASS
174	95	50	120	69.0	308394	PASS
175	174	4	9	6.9	21202	PASS
176	174	93	101	96.6	298005	PASS
177	176	5	9	6.5	19282	PASS

LM 12/07/06

50

Response Factor Report R8120

Method Path : J:\MS08\METHODS\
Method File : R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006
Response Via : Initial Calibration

Calibration Files
0.5 =12060607.D 1 =12060608.D 5 =12060609.D 25 =12060610.D
50 =12060611.D 100 =12060612.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD	
1)	IR	Bromochloromethane (I ----------ISTD----------									
2)	T	Propene	1.556	1.487	1.375	1.028	0.937	0.954	1.223	23.00	
3)	T	Dichlorodifluorom	2.931	2.932	2.696	2.367	2.232	2.195	2.559	13.23	
4)	T	Chloromethane	2.263	2.274	2.201	1.931	1.869	1.942	2.080	8.90	
5)	T	Freon 114	0.815	0.806	0.700	0.606	0.575	0.545	0.675	17.40	
6)	T	Vinyl Chloride	1.861	1.777	1.409	1.240	1.078	1.143	1.418	23.34	
7)	T	1,3-Butadiene	1.650	1.575	1.459	1.227	1.168	1.173	1.375	15.53	
8)	T	Bromomethane	1.212	1.186	1.082	0.930	0.914	0.981	1.051	12.29	
9)	T	Chloroethane	1.146	1.093	1.018	0.877	0.842	0.866	0.974	13.33	
10)	T	Ethanol	0.608	0.564	0.547	0.918	0.927	0.955	0.753	26.42	NTC
11)	T	Acetonitrile	2.190	2.095	2.024	2.393	2.326	2.394	2.237	7.05	
12)	T	Acrolein	0.758	0.710	0.719	0.714	0.730	0.753	0.731	2.78	
13)	T	Acetone	1.272	1.140	1.105	0.822	0.932	1.004	1.046	15.29	
14)	T	Trichlorofluorome	1.895	1.852	1.773	1.660	1.632	1.636	1.741	6.63	
15)	T	Isopropanol	3.587	3.505	2.972	3.370	2.969	2.806	3.201	10.19	
16)	T	Acrylonitrile	1.573	1.464	1.561	1.634	1.608	1.642	1.580	4.14	
17)	T	1,1-Dichloroethen	1.245	1.270	1.198	1.126	1.090	1.103	1.172	6.53	
18)	T	tert-Butanol	3.496	3.504	3.088	2.880	2.614	2.170	2.959	17.56	
19)	T	Methylene Chlorid	1.588	1.449	1.358	1.243	1.211	1.221	1.345	11.23	
20)	T	Allyl Chloride	1.643	1.700	1.737	1.747	1.733	1.772	1.722	2.62	
21)	T	Trichlorotrifluor	0.876	0.775	0.684	0.527	0.557	0.681	0.683	19.21	
22)	T	Carbon Disulfide	5.671	5.360	4.931	4.422	4.294	4.308	4.831	12.16	
23)	T	trans-1,2-Dichlor	1.968	1.948	1.906	1.796	1.809	1.858	1.881	3.81	
24)	T	1,1-Dichloroethan	2.099	2.008	1.925	1.852	1.811	1.764	1.910	6.64	
25)	T	Methyl tert-Butyl	3.715	3.514	3.025	2.597	2.607	2.757	3.036	15.75	
26)	T	Vinyl Acetate	0.248	0.292	0.251	0.241	0.239	0.246	0.253	7.80	
27)	T	2-Butanone	0.872	0.824	0.788	0.761	0.772	0.811	0.805	5.03	
28)	T	cis-1,2-Dichloroe	1.883	1.839	1.764	1.700	1.682	1.700	1.761	4.73	
29)	T	Diisopropyl Ether	0.954	0.958	0.848	0.749	0.730	0.752	0.832	12.58	
30)	T	Ethyl Acetate	0.448	0.439	0.407	0.372	0.372	0.385	0.404	8.33	
31)	T	n-Hexane	2.029	1.877	1.621	1.300	1.293	1.385	1.584	19.77	
32)	T	Chloroform	2.165	2.124	1.857	1.764	1.676	1.626	1.869	12.20	
33)	S	1,2-Dichloroethan	1.958	1.951	1.848	1.854	1.817	1.835	1.877	3.26	
34)	T	Tetrahydrofuran	0.836	0.808	0.793	0.697	0.724	0.692	0.759	8.13	
35)	T	Ethyl tert-Butyl	1.449	1.419	1.282	1.133	1.118	1.164	1.261	11.61	
36)	T	1,2-Dichloroethan	1.875	1.808	1.707	1.625	1.630	1.609	1.709	6.45	
37)	IR	1,4-Difluorobenzene (----------ISTD----------									
38)	T	1,1,1-Trichloroet	0.453	0.436	0.408	0.389	0.386	0.392	0.411	6.81	
39)	T	Isopropyl Acetate	0.175	0.176	0.173	0.167	0.164	0.161	0.169	3.59	
40)	T	1-Butanol	0.139	0.135	0.142	0.277	0.269	0.253	0.202	34.82	NTC
41)	T	Benzene	1.230	1.169	1.053	0.972	0.952	0.940	1.053	11.59	
42)	T	Carbon Tetrachlor	0.344	0.338	0.339	0.328	0.331	0.338	0.336	1.66	
43)	T	Cyclohexane	0.431	0.405	0.367	0.330	0.330	0.341	0.367	11.54	
44)	T	tert-Amyl Methyl	0.800	0.780	0.740	0.699	0.681	0.670	0.728	7.40	
45)	T	1,2-Dichloropropa	0.289	0.276	0.270	0.261	0.257	0.257	0.268	4.67	
46)	T	Bromodichlorometh	0.362	0.361	0.366	0.367	0.359	0.349	0.361	1.83	
47)	T	Trichloroethene	0.259	0.244	0.244	0.231	0.227	0.226	0.238	5.41	
48)	T	1,4-Dioxane	0.211	0.205	0.205	0.213	0.208	0.200	0.207	2.34	
49)	T	Isooctane	1.121	1.075	1.005	0.924	0.904	0.895	0.987	9.64	
50)	T	Methyl Methacryla	0.099	0.100	0.104	0.106	0.104	0.101	0.102	2.63	
51)	T	n-Heptane	0.287	0.272	0.264	0.242	0.235	0.234	0.256	8.60	
52)	T	cis-1,3-Dichlorop	0.473	0.468	0.463	0.455	0.443	0.430	0.455	3.61	
53)	T	4-Methyl-2-pentan	0.246	0.251	0.251	0.252	0.243	0.235	0.246	2.75	
54)	T	trans-1,3-Dichlor	0.414	0.428	0.427	0.433	0.425	0.417	0.424	1.68	
55)	T	1,1,2-Trichloroet	0.279	0.264	0.265	0.260	0.254	0.247	0.261	4.13	
56)	I	Chlorobenzene-d5 (IS3 ----------ISTD----------									
57)	S	Toluene-d8 (SS2)	2.035	2.050	2.019	2.020	2.038	2.048	2.035	0.65	

53

Method Path : J:\MS08\METHODS\
Method File : R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006
Response Via : Initial Calibration

Calibration Files
0.5 =12060607.D 1 =12060608.D 5 =12060609.D 25 =12060610.D
50 =12060611.D 100 =12060612.D =

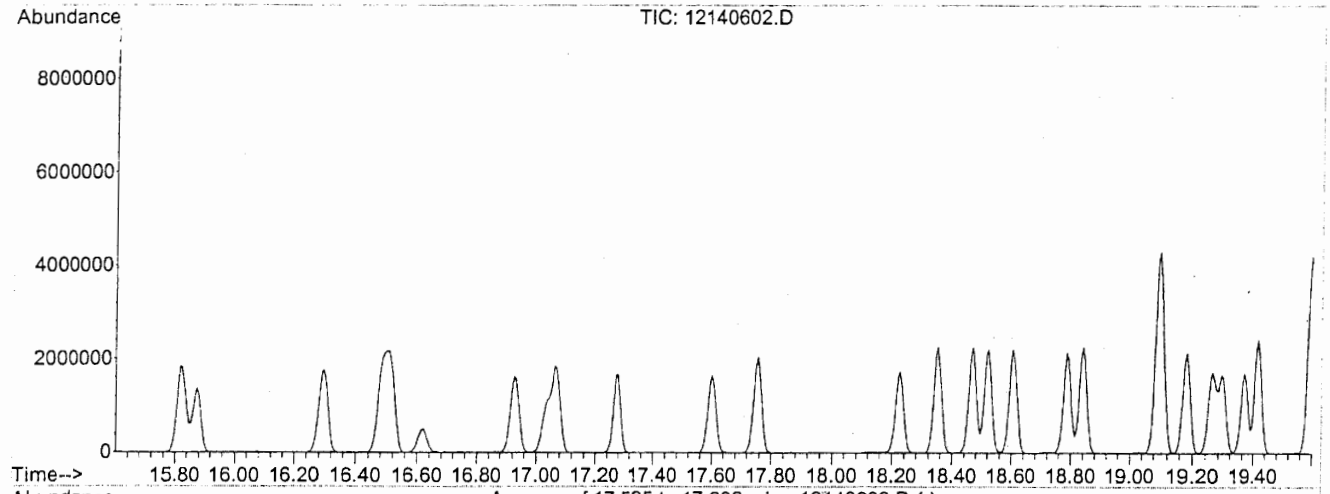
		Compound	0.5	1	5	25	50	100	Avg	%RSD
58)	T	Toluene	2.305	2.217	2.072	1.959	1.890	1.804	2.041	9.48
59)	T	2-Hexanone	1.164	1.179	1.176	1.194	1.168	1.112	1.166	2.41
60)	T	Dibromochlorometh	0.525	0.520	0.511	0.523	0.513	0.501	0.515	1.71
61)	T	1,2-Dibromoethane	0.557	0.570	0.554	0.555	0.538	0.521	0.549	3.06
62)	T	Butyl Acetate	1.269	1.306	1.284	1.329	1.298	1.243	1.288	2.32
63)	T	n-Octane	0.461	0.455	0.436	0.409	0.394	0.378	0.422	8.00
64)	T	Tetrachloroethene	0.484	0.488	0.454	0.432	0.424	0.418	0.450	6.85
65)	T	Chlorobenzene	1.430	1.414	1.334	1.289	1.234	1.190	1.315	7.31
66)	T	Ethylbenzene	2.597	2.555	2.438	2.376	2.251	2.123	2.390	7.56
67)	T	m- & p-Xylene	1.644	1.666	1.591	1.534	1.448	1.345	1.538	8.01
68)	T	Bromoform	0.297	0.310	0.324	0.336	0.328	0.318	0.319	4.45
69)	T	Styrene	1.389	1.420	1.427	1.426	1.371	1.291	1.387	3.79
70)	T	o-Xylene	1.782	1.777	1.715	1.668	1.578	1.460	1.663	7.53
71)	T	n-Nonane	1.089	1.104	1.049	1.034	0.979	0.911	1.028	7.04
72)	T	1,1,2,2-Tetrachlo	0.820	0.819	0.808	0.809	0.773	0.734	0.794	4.26
73)	S	Bromofluorobenzen	0.594	0.601	0.600	0.601	0.597	0.591	0.597	0.68
74)	T	Cumene	2.295	2.288	2.198	2.136	2.019	1.913	2.142	7.10
75)	T	alpha-Pinene	1.184	1.221	1.155	1.132	1.091	1.049	1.139	5.47
76)	T	n-Propylbenzene	3.105	3.061	2.960	2.912	2.725	2.497	2.877	7.95
77)	T	3-Ethyltoluene	2.486	2.443	2.387	2.378	2.266	2.133	2.349	5.50
78)	T	4-Ethyltoluene	2.322	2.359	2.270	2.192	2.012	1.880	2.172	8.69
79)	T	1,3,5-Trimethylbe	2.007	2.061	1.967	1.930	1.813	1.701	1.913	6.97
80)	T	alpha-Methylstyre	0.999	1.013	1.034	1.071	1.025	0.976	1.020	3.16
81)	T	2-Ethyltoluene	2.515	2.533	2.435	2.396	2.231	2.083	2.366	7.42
82)	T	1,2,4-Trimethylbe	1.990	2.016	1.965	1.915	1.812	1.702	1.900	6.37
83)	T	n-Decane	1.194	1.176	1.156	1.109	1.047	0.967	1.108	7.85
84)	T	Benzyl Chloride	1.734	1.810	1.859	1.921	1.826	1.681	1.805	4.80
85)	T	1,3-Dichlorobenze	1.065	1.068	1.025	1.004	0.961	0.918	1.007	5.88
86)	T	1,4-Dichlorobenze	1.016	1.037	1.003	0.986	0.936	0.887	0.977	5.75
87)	T	sec-Butylbenzene	2.730	2.719	2.625	2.531	2.348	2.159	2.519	8.96
88)	T	p-Isopropyltoluen	2.142	2.181	2.104	2.051	1.939	1.781	2.033	7.33
89)	T	1,2,3-Trimethylbe	2.009	1.965	1.913	1.853	1.747	1.635	1.854	7.60
90)	T	1,2-Dichlorobenze	1.026	0.992	0.951	0.939	0.891	0.835	0.939	7.33
91)	T	d-Limonene	0.781	0.798	0.827	0.829	0.781	0.733	0.792	4.52
92)	T	1,2-Dibromo-3-Chl	0.259	0.288	0.321	0.342	0.340	0.325	0.313	10.42
93)	T	n-Undecane	1.102	1.122	1.077	0.998	0.982	0.927	1.035	7.43
94)	T	1,2,4-Trichlorobe	0.189	0.196	0.182	0.185	0.186	0.185	0.187	2.56
95)	T	Naphthalene	2.120	2.196	2.197	2.281	2.280	2.184	2.210	2.80
96)	T	n-Dodecane	0.801	0.833	0.778	0.686	0.692	0.679	0.745	9.00
97)	T	Hexachloro-1,3-bu	0.303	0.310	0.304	0.298	0.300	0.300	0.303	1.32

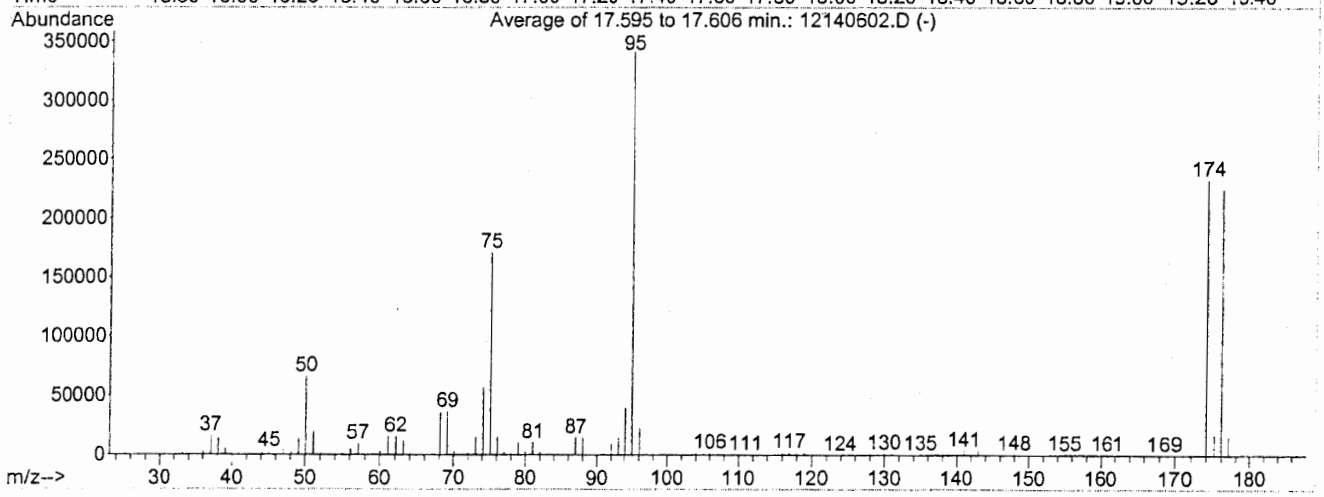
(#) = Out of Range

Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140602.D
Acq On : 14 Dec 2006 10:07
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.4	66064	PASS
75	95	30	66	50.2	171285	PASS
95	95	100	100	100.0	341312	PASS
96	95	5	9	6.5	22272	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	68.2	232661	PASS
175	174	4	9	7.1	16609	PASS
176	174	93	101	96.4	224256	PASS
177	176	5	9	6.7	15084	PASS

LM 12/15/06

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Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140602.D
Acq On : 14 Dec 2006 10:07
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 15 10:01:55 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	72	0.00
2	T	Propene	1.223	0.990	19.1	69	0.01
3	T	Dichlorodifluoromethane	2.559	2.283	10.8	69	0.01
4	T	Chloromethane	2.080	1.823	12.4	68	0.00
5	T	Freon 114	0.675	0.597	11.6	70	0.01
6	T	Vinyl Chloride	1.418	1.186	16.4	68	0.01
7	T	1,3-Butadiene	1.375	1.164	15.3	68	0.01
8	T	Bromomethane	1.051	0.898	14.6	69	0.01
9	T	Chloroethane	0.974	0.830	14.8	68	0.01
10	T	Ethanol	0.753	0.860	-14.2	67	0.02
11	T	Acetonitrile	2.237	2.243	-0.3	67	0.02
12	T	Acrolein	0.731	0.678	7.3	68	0.02
13	T	Acetone	1.046	0.803	23.2	70	0.01
14	T	Trichlorofluoromethane	1.741	1.610	7.5	69	0.01
15	T	Isopropanol	3.201	3.216	-0.5	68	0.02
16	T	Acrylonitrile	1.580	1.525	3.5	67	0.02
17	T	1,1-Dichloroethene	1.172	1.062	9.4	68	0.00
18	T	tert-Butanol	2.959	2.809	5.1	70	0.01
19	T	Methylene Chloride	1.345	1.170	13.0	67	0.01
20	T	Allyl Chloride	1.722	1.620	5.9	66	0.00
21	T	Trichlorotrifluoroethane	0.683	0.537	21.4	73	0.00
22	T	Carbon Disulfide	4.831	4.224	12.6	68	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.687	10.3	67	0.00
24	T	1,1-Dichloroethane	1.910	1.749	8.4	68	0.01
25	T	Methyl tert-Butyl Ether	3.036	2.651	12.7	73	0.00
26	T	Vinyl Acetate	0.253	0.239	5.5	71	0.01
27	T	2-Butanone	0.805	0.733	8.9	69	0.01
28	T	cis-1,2-Dichloroethene	1.761	1.600	9.1	67	0.01
29	T	Diisopropyl Ether	0.832	0.742	10.8	71	0.00
30	T	Ethyl Acetate	0.404	0.361	10.6	70	0.00
31	T	n-Hexane	1.584	1.326	16.3	73	0.00
32	T	Chloroform	1.869	1.694	9.4	69	0.01
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.913	-1.9	74	0.00
34	T	Tetrahydrofuran	0.759	0.688	9.4	71	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.128	10.5	71	0.00
36	T	1,2-Dichloroethane	1.709	1.558	8.8	69	0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	74	0.00
38	T	1,1,1-Trichloroethane	0.411	0.374	9.0	71	0.00
39	T	Isopropyl Acetate	0.169	0.158	6.5	70	0.00
40	T	1-Butanol	0.202	0.255	-26.2	68	0.00
41	T	Benzene	1.053	0.917	12.9	69	0.00
42	T	Carbon Tetrachloride	0.336	0.314	6.5	70	0.00
43	T	Cyclohexane	0.367	0.319	13.1	71	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.670	8.0	70	0.00
45	T	1,2-Dichloropropane	0.268	0.243	9.3	68	0.00
46	T	Bromodichloromethane	0.361	0.352	2.5	70	0.00
47	T	Trichloroethene	0.238	0.219	8.0	70	0.00
48	T	1,4-Dioxane	0.207	0.199	3.9	69	0.00
49	T	Isooctane	0.987	0.872	11.7	69	0.00
50	T	Methyl Methacrylate	0.102	0.099	2.9	69	0.00
51	T	n-Heptane	0.256	0.224	12.5	68	0.00

LM 12/15/06

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Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140602.D
Acq On : 14 Dec 2006 10:07
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 15 10:01:55 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.427	6.2	69	0.00
53	T	4-Methyl-2-pentanone	0.246	0.235	4.5	69	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.401	5.4	68	0.00
55	T	1,1,2-Trichloroethane	0.261	0.240	8.0	68	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	75	0.00
57	S	Toluene-d8 (SS2)	2.035	1.949	4.2	72	0.00
58	T	Toluene	2.041	1.783	12.6	68	0.00
59	T	2-Hexanone	1.166	1.104	5.3	69	0.00
60	T	Dibromochloromethane	0.515	0.478	7.2	68	0.00
61	T	1,2-Dibromoethane	0.549	0.504	8.2	68	0.00
62	T	Butyl Acetate	1.288	1.225	4.9	69	0.00
63	T	n-Octane	0.422	0.377	10.7	69	0.00
64	T	Tetrachloroethene	0.450	0.397	11.8	69	0.00
65	T	Chlorobenzene	1.315	1.166	11.3	68	0.00
66	T	Ethylbenzene	2.390	2.161	9.6	68	0.00
67	T	m- & p-Xylene	1.538	1.409	8.4	69	0.00
68	T	Bromoform	0.319	0.308	3.4	69	0.00
69	T	Styrene	1.387	1.313	5.3	69	0.00
70	T	o-Xylene	1.663	1.532	7.9	69	0.00
71	T	n-Nonane	1.028	0.939	8.7	68	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.737	7.2	68	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.634	-6.2	79	0.00
74	T	Cumene	2.142	1.981	7.5	69	0.00
75	T	alpha-Pinene	1.139	1.043	8.4	69	0.00
76	T	n-Propylbenzene	2.877	2.671	7.2	69	0.00
77	T	3-Ethyltoluene	2.349	2.183	7.1	69	0.00
78	T	4-Ethyltoluene	2.172	2.033	6.4	69	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.776	7.2	69	0.00
80	T	alpha-Methylstyrene	1.020	0.984	3.5	69	0.00
81	T	2-Ethyltoluene	2.366	2.214	6.4	69	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.813	4.6	71	0.00
83	T	n-Decane	1.108	1.019	8.0	69	0.00
84	T	Benzyl Chloride	1.805	1.773	1.8	69	0.00
85	T	1,3-Dichlorobenzene	1.007	0.942	6.5	70	0.00
86	T	1,4-Dichlorobenzene	0.977	0.924	5.4	70	0.00
87	T	sec-Butylbenzene	2.519	2.374	5.8	70	0.00
88	T	p-Isopropyltoluene	2.033	1.924	5.4	70	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.764	4.9	71	0.00
90	T	1,2-Dichlorobenzene	0.939	0.889	5.3	71	0.00
91	T	d-Limonene	0.792	0.784	1.0	71	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.336	-7.3	73	0.00
93	T	n-Undecane	1.035	0.970	6.3	73	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.191	-2.1	77	0.00
95	T	Naphthalene	2.210	2.396	-8.4	79	0.00
96	T	n-Dodecane	0.745	0.752	-0.9	82	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.318	-5.0	80	0.00

LM 12/15/06

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

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Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140604.D
Acq On : 14 Dec 2006 12:11
Operator : LM
Sample : 1ng TO-15 CCV Std
Misc : S15-12050601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 10:07:07 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	70	-0.01
2	T	Propene	1.223	1.503	-22.9	71	0.02
3	T	Dichlorodifluoromethane	2.559	2.964	-15.8	71	0.02
4	T	Chloromethane	2.080	2.155	-3.6	66	0.01
5	T	Freon 114	0.675	0.849	-25.8	74	0.02
6	T	Vinyl Chloride	1.418	1.745	-23.1	69	0.01
7	T	1,3-Butadiene	1.375	1.559	-13.4	69	0.02
8	T	Bromomethane	1.051	1.091	-3.8	65	0.02
9	T	Chloroethane	0.974	1.038	-6.6	67	0.01
10	T	Ethanol	0.753	0.578	23.2	72	0.00
11	T	Acetonitrile	2.237	2.045	8.6	68	0.01
12	T	Acrolein	0.731	0.632	13.5	62	0.02
13	T	Acetone	1.046	1.255	-20.0	77	0.00
14	T	Trichlorofluoromethane	1.741	1.882	-8.1	71	0.00
15	T	Isopropanol	3.201	3.408	-6.5	68	-0.01
16	T	Acrylonitrile	1.580	1.420	10.1	68	0.00
17	T	1,1-Dichloroethene	1.172	1.158	1.2	64	0.00
18	T	tert-Butanol	2.959	3.417	-15.5	68	0.00
19	T	Methylene Chloride	1.345	1.391	-3.4	67	0.00
20	T	Allyl Chloride	1.722	1.516	12.0	63	0.00
21	T	Trichlorotrifluoroethane	0.683	0.747	-9.4	68	0.01
22	T	Carbon Disulfide	4.831	5.139	-6.4	67	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.827	2.9	66	0.00
24	T	1,1-Dichloroethane	1.910	1.995	-4.5	70	0.00
25	T	Methyl tert-Butyl Ether	3.036	3.381	-11.4	67	0.00
26	T	Vinyl Acetate	0.253	0.286	-13.0	69	0.00
27	T	2-Butanone	0.805	0.845	-5.0	72	0.00
28	T	cis-1,2-Dichloroethene	1.761	1.728	1.9	66	0.00
29	T	Diisopropyl Ether	0.832	0.961	-15.5	70	0.00
30	T	Ethyl Acetate	0.404	0.427	-5.7	68	0.00
31	T	n-Hexane	1.584	1.836	-15.9	69	0.00
32	T	Chloroform	1.869	2.032	-8.7	67	-0.02
33	S	1,2-Dichloroethane-d4(SS1)	1.877	2.055	-9.5	74	0.00
34	T	Tetrahydrofuran	0.759	0.744	2.0	65	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.342	-6.4	66	0.00
36	T	1,2-Dichloroethane	1.709	1.787	-4.6	69	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	70	0.00
38	T	1,1,1-Trichloroethane	0.411	0.418	-1.7	68	-0.01
39	T	Isopropyl Acetate	0.169	0.160	5.3	64	0.00
40	T	1-Butanol	0.202	0.129	36.1#	67	0.01
41	T	Benzene	1.053	1.062	-0.9	64	0.00
42	T	Carbon Tetrachloride	0.336	0.344	-2.4	72	0.00
43	T	Cyclohexane	0.367	0.392	-6.8	68	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.744	-2.2	67	0.00
45	T	1,2-Dichloropropane	0.268	0.269	-0.4	69	0.00
46	T	Bromodichloromethane	0.361	0.354	1.9	69	-0.01
47	T	Trichloroethene	0.238	0.241	-1.3	69	0.00
48	T	1,4-Dioxane	0.207	0.195	5.8	67	0.00
49	T	Isooctane	0.987	1.026	-4.0	67	0.00
50	T	Methyl Methacrylate	0.102	0.100	2.0	70	0.00
51	T	n-Heptane	0.256	0.256	0.0	66	0.00

LM 12/21/06

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Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140604.D
Acq On : 14 Dec 2006 12:11
Operator : LM
Sample : 1ng TO-15 CCV Std
Misc : S15-12050601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 10:07:07 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.436	4.2	66	0.00
53	T	4-Methyl-2-pentanone	0.246	0.233	5.3	65	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.403	5.0	66	0.00
55	T	1,1,2-Trichloroethane	0.261	0.250	4.2	67	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	73	0.00
57	S	Toluene-d8 (SS2)	2.035	1.969	3.2	70	0.00
58	T	Toluene	2.041	1.965	3.7	65	0.00
59	T	2-Hexanone	1.166	1.062	8.9	66	0.00
60	T	Dibromochloromethane	0.515	0.461	10.5	65	0.00
61	T	1,2-Dibromoethane	0.549	0.514	6.4	66	0.00
62	T	Butyl Acetate	1.288	1.209	6.1	68	0.00
63	T	n-Octane	0.422	0.406	3.8	66	0.00
64	T	Tetrachloroethene	0.450	0.437	2.9	66	0.00
65	T	Chlorobenzene	1.315	1.266	3.7	66	0.00
66	T	Ethylbenzene	2.390	2.251	5.8	65	0.00
67	T	m- & p-Xylene	1.538	1.459	5.1	64	0.00
68	T	Bromoform	0.319	0.286	10.3	68	0.00
69	T	Styrene	1.387	1.230	11.3	64	0.00
70	T	o-Xylene	1.663	1.609	3.2	66	0.00
71	T	n-Nonane	1.028	0.994	3.3	66	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.744	6.3	67	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.615	-3.0	75	0.00
74	T	Cumene	2.142	2.036	4.9	65	0.00
75	T	alpha-Pinene	1.139	1.056	7.3	63	0.00
76	T	n-Propylbenzene	2.877	2.732	5.0	66	0.00
77	T	3-Ethyltoluene	2.349	2.239	4.7	67	0.00
78	T	4-Ethyltoluene	2.172	2.106	3.0	66	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.815	5.1	65	0.00
80	T	alpha-Methylstyrene	1.020	0.867	15.0	63	0.00
81	T	2-Ethyltoluene	2.366	2.250	4.9	65	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.804	5.1	66	-0.01
83	T	n-Decane	1.108	1.053	5.0	66	0.00
84	T	Benzyl Chloride	1.805	1.583	12.3	64	-0.01
85	T	1,3-Dichlorobenzene	1.007	0.926	8.0	64	0.00
86	T	1,4-Dichlorobenzene	0.977	0.886	9.3	63	0.00
87	T	sec-Butylbenzene	2.519	2.415	4.1	65	0.00
88	T	p-Isopropyltoluene	2.033	1.903	6.4	64	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.750	5.6	65	0.00
90	T	1,2-Dichlorobenzene	0.939	0.885	5.8	65	0.00
91	T	d-Limonene	0.792	0.696	12.1	64	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.260	16.9	66	0.00
93	T	n-Undecane	1.035	0.935	9.7	61	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.159	15.0	60	0.00
95	T	Naphthalene	2.210	1.946	11.9	65	0.00
96	T	n-Dodecane	0.745	0.760	-2.0	67	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.298	1.7	71	0.00

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

LM 12/21/06

58

Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140617.D
Acq On : 14 Dec 2006 21:40
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 15 08:42:25 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	91	0.00
2	T	Propene	1.223	0.916	25.1	81	0.00
3	T	Dichlorodifluoromethane	2.559	2.084	18.6	80	0.00
4	T	Chloromethane	2.080	1.698	18.4	80	0.00
5	T	Freon 114	0.675	0.586	13.2	88	0.00
6	T	Vinyl Chloride	1.418	1.282	9.6	94	0.00
7	T	1,3-Butadiene	1.375	1.116	18.8	83	0.00
8	T	Bromomethane	1.051	0.880	16.3	86	0.01
9	T	Chloroethane	0.974	0.802	17.7	83	0.00
10	T	Ethanol	0.753	0.773	-2.7	77	0.00
11	T	Acetonitrile	2.237	2.012	10.1	76	0.01
12	T	Acrolein	0.731	0.619	15.3	79	0.01
13	T	Acetone	1.046	0.742	29.1	82	0.00
14	T	Trichlorofluoromethane	1.741	1.484	14.8	81	0.00
15	T	Isopropanol	3.201	2.839	11.3	77	0.01
16	T	Acrylonitrile	1.580	1.421	10.1	79	0.01
17	T	1,1-Dichloroethene	1.172	1.030	12.1	83	0.00
18	T	tert-Butanol	2.959	2.426	18.0	77	0.01
19	T	Methylene Chloride	1.345	1.136	15.5	83	0.01
20	T	Allyl Chloride	1.722	1.461	15.2	76	0.00
21	T	Trichlorotrifluoroethane	0.683	0.546	20.1	94	0.00
22	T	Carbon Disulfide	4.831	4.089	15.4	84	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.571	16.5	79	0.00
24	T	1,1-Dichloroethane	1.910	1.611	15.7	79	0.01
25	T	Methyl tert-Butyl Ether	3.036	2.431	19.9	85	0.00
26	T	Vinyl Acetate	0.253	0.233	7.9	88	0.00
27	T	2-Butanone	0.805	0.704	12.5	84	0.00
28	T	cis-1,2-Dichloroethene	1.761	1.465	16.8	78	0.00
29	T	Diisopropyl Ether	0.832	0.726	12.7	88	0.00
30	T	Ethyl Acetate	0.404	0.334	17.3	82	0.00
31	T	n-Hexane	1.584	1.251	21.0	87	0.00
32	T	Chloroform	1.869	1.587	15.1	82	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.704	9.2	84	0.00
34	T	Tetrahydrofuran	0.759	0.656	13.6	85	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.094	13.2	88	0.00
36	T	1,2-Dichloroethane	1.709	1.394	18.4	78	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	92	0.00
38	T	1,1,1-Trichloroethane	0.411	0.352	14.4	84	0.00
39	T	Isopropyl Acetate	0.169	0.148	12.4	82	0.00
40	T	1-Butanol	0.202	0.239	-18.3	80	0.00
41	T	Benzene	1.053	0.900	14.5	86	0.00
42	T	Carbon Tetrachloride	0.336	0.299	11.0	84	0.00
43	T	Cyclohexane	0.367	0.318	13.4	89	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.636	12.6	84	0.00
45	T	1,2-Dichloropropane	0.268	0.234	12.7	83	0.00
46	T	Bromodichloromethane	0.361	0.325	10.0	82	0.00
47	T	Trichloroethene	0.238	0.222	6.7	89	0.00
48	T	1,4-Dioxane	0.207	0.195	5.8	85	0.00
49	T	Isooctane	0.987	0.823	16.6	82	0.00
50	T	Methyl Methacrylate	0.102	0.099	2.9	87	0.00
51	T	n-Heptane	0.256	0.220	14.1	84	0.00

LM 12/21/06

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Data Path : J:\MS08\Data\2006_012\14\
Data File : 12140617.D
Acq On : 14 Dec 2006 21:40
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 15 08:42:25 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.404	11.2	82	0.00
53	T	4-Methyl-2-pentanone	0.246	0.219	11.0	80	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.375	11.6	80	0.00
55	T	1,1,2-Trichloroethane	0.261	0.236	9.6	84	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	88	0.00
57	S	Toluene-d8 (SS2)	2.035	2.046	-0.5	89	0.00
58	T	Toluene	2.041	1.860	8.9	84	0.00
59	T	2-Hexanone	1.166	1.038	11.0	77	0.00
60	T	Dibromochloromethane	0.515	0.494	4.1	83	0.00
61	T	1,2-Dibromoethane	0.549	0.521	5.1	83	0.00
62	T	Butyl Acetate	1.288	1.152	10.6	76	0.00
63	T	n-Octane	0.422	0.375	11.1	81	0.00
64	T	Tetrachloroethene	0.450	0.430	4.4	88	0.00
65	T	Chlorobenzene	1.315	1.236	6.0	85	0.00
66	T	Ethylbenzene	2.390	2.217	7.2	82	0.00
67	T	m- & p-Xylene	1.538	1.433	6.8	82	0.00
68	T	Bromoform	0.319	0.322	-0.9	84	0.00
69	T	Styrene	1.387	1.364	1.7	84	0.00
70	T	o-Xylene	1.663	1.564	6.0	83	0.00
71	T	n-Nonane	1.028	0.898	12.6	77	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.752	5.3	82	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.663	-11.1	97	0.00
74	T	Cumene	2.142	2.036	4.9	84	0.00
75	T	alpha-Pinene	1.139	1.067	6.3	83	0.00
76	T	n-Propylbenzene	2.877	2.707	5.9	82	0.00
77	T	3-Ethyltoluene	2.349	2.239	4.7	83	0.00
78	T	4-Ethyltoluene	2.172	2.084	4.1	84	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.818	5.0	83	0.00
80	T	alpha-Methylstyrene	1.020	1.016	0.4	84	0.00
81	T	2-Ethyltoluene	2.366	2.260	4.5	83	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.804	5.1	83	0.00
83	T	n-Decane	1.108	0.992	10.5	79	0.00
84	T	Benzyl Chloride	1.805	1.759	2.5	81	0.00
85	T	1,3-Dichlorobenzene	1.007	0.974	3.3	86	0.00
86	T	1,4-Dichlorobenzene	0.977	0.955	2.3	85	0.00
87	T	sec-Butylbenzene	2.519	2.407	4.4	84	0.00
88	T	p-Isopropyltoluene	2.033	1.961	3.5	84	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.750	5.6	83	0.00
90	T	1,2-Dichlorobenzene	0.939	0.909	3.2	85	0.00
91	T	d-Limonene	0.792	0.755	4.7	80	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.336	-7.3	87	0.00
93	T	n-Undecane	1.035	0.893	13.7	79	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.186	0.5	89	0.00
95	T	Naphthalene	2.210	2.240	-1.4	87	0.00
96	T	n-Dodecane	0.745	0.634	14.9	81	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.303	0.0	90	0.00

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

LM 12/21/06

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Project ID: **WDI** CAS Project ID: P2603389

Internal Standard Area and RT Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Lab File ID: 12140602.D
Analyst: Liliana Marghitoiu Date Analyzed: 12/14/06
Sampling Media: Summa Canister(s) Time Analyzed: 10:07
Test Notes:

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	308094	9.06	1366325	11.00	764747	15.82
	Upper Limit	431332	9.39	1912855	11.33	1070646	16.15
	Lower Limit	184856	8.73	819795	10.67	458848	15.49
	Client Sample ID						
01	Method Blank	317454	9.04	1492220	10.98	794143	15.81
02	Lab Control Sample	311068	9.07	1454120	11.00	795703	15.82
03	Duplicate Lab Control Sample	325875	9.06	1459499	11.00	822376	15.82
04	WDI-VW-56-S-12-08-06	360798	9.06	1674206	10.99	893723	15.82
05	WDI-VW-56-S-12-08-06-SC	374658	9.06	1793587	10.99	917397	15.82
06	WDI-VW-56-I-12-08-06	374389	9.06	1801123	11.00	920570	15.82
07	WDI-VW-56-D-12-08-06	374244	9.05	1773806	10.99	923311	15.82
08							
09							
10							
11							
12							
13							
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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

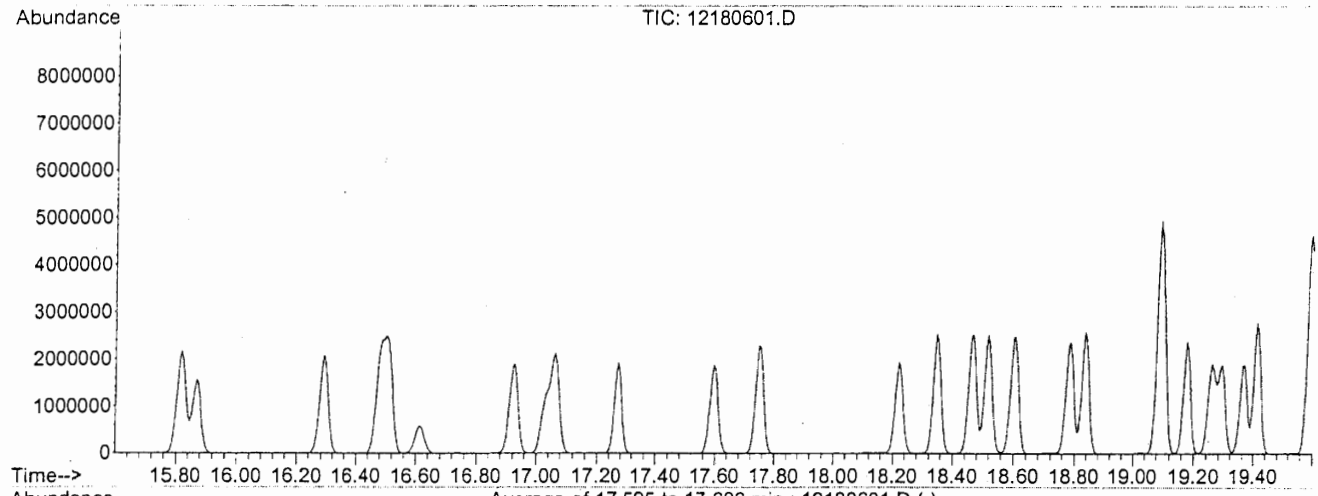
Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

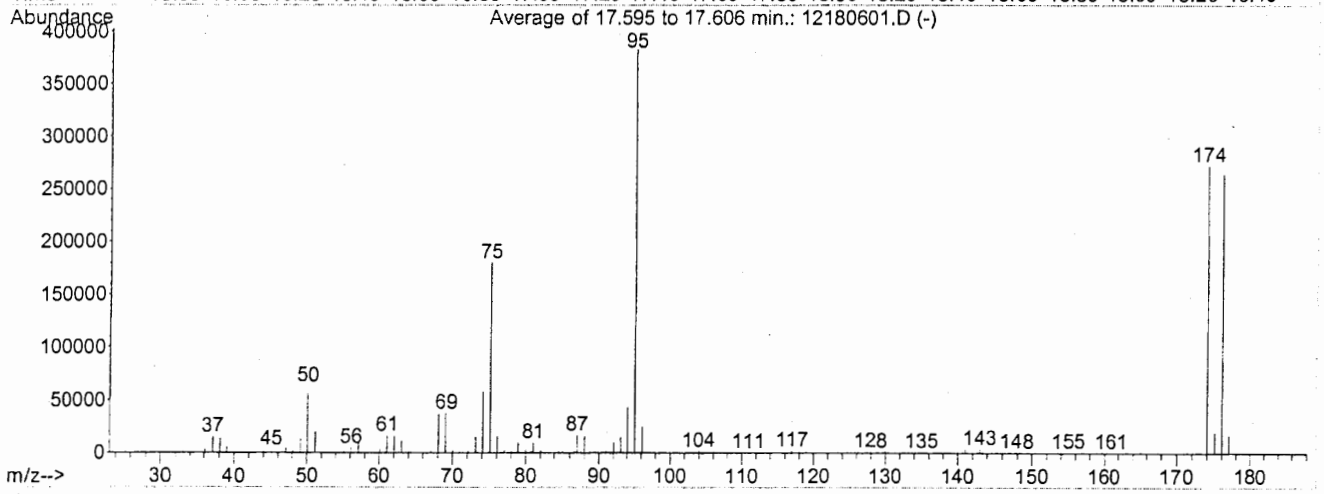
Verified by: pw Date: 12/26/06

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180601.D
Acq On : 18 Dec 2006 7:08
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.4	62930	PASS
75	95	30	66	47.0	180074	PASS
95	95	100	100	100.0	383104	PASS
96	95	5	9	6.5	24768	PASS
173	174	0.00	2	0.3	733	PASS
174	95	50	120	71.1	272405	PASS
175	174	4	9	7.3	19760	PASS
176	174	93	101	97.1	264512	PASS
177	176	5	9	6.5	17156	PASS

LM 12/18/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180601.D
Acq On : 18 Dec 2006 7:08
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 07:34:48 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	89	0.01
2	T	Propene	1.223	1.008	17.6	87	0.00
3	T	Dichlorodifluoromethane	2.559	2.257	11.8	85	0.01
4	T	Chloromethane	2.080	1.830	12.0	85	0.01
5	T	Freon 114	0.675	0.640	5.2	94	0.01
6	T	Vinyl Chloride	1.418	1.129	20.4	81	0.01
7	T	1,3-Butadiene	1.375	1.163	15.4	85	0.02
8	T	Bromomethane	1.051	0.919	12.6	88	0.02
9	T	Chloroethane	0.974	0.824	15.4	84	0.02
10	T	Ethanol	0.753	0.816	-8.4	79	0.03
11	T	Acetonitrile	2.237	2.169	3.0	81	0.03
12	T	Acrolein	0.731	0.650	11.1	81	0.02
13	T	Acetone	1.046	0.771	26.3	84	0.02
14	T	Trichlorofluoromethane	1.741	1.583	9.1	85	0.01
15	T	Isopropanol	3.201	3.010	6.0	80	0.03
16	T	Acrylonitrile	1.580	1.475	6.6	81	0.02
17	T	1,1-Dichloroethene	1.172	1.057	9.8	84	0.01
18	T	tert-Butanol	2.959	2.598	12.2	80	0.03
19	T	Methylene Chloride	1.345	1.154	14.2	83	0.02
20	T	Allyl Chloride	1.722	1.545	10.3	79	0.01
21	T	Trichlorotrifluoroethane	0.683	0.554	18.9	94	0.01
22	T	Carbon Disulfide	4.831	4.142	14.3	84	0.01
23	T	trans-1,2-Dichloroethene	1.881	1.611	14.4	80	0.01
24	T	1,1-Dichloroethane	1.910	1.666	12.8	80	0.02
25	T	Methyl tert-Butyl Ether	3.036	2.546	16.1	87	0.01
26	T	Vinyl Acetate	0.253	0.238	5.9	88	0.01
27	T	2-Butanone	0.805	0.710	11.8	83	0.02
28	T	cis-1,2-Dichloroethene	1.761	1.505	14.5	79	0.01
29	T	Diisopropyl Ether	0.832	0.740	11.1	88	0.01
30	T	Ethyl Acetate	0.404	0.340	15.8	82	0.02
31	T	n-Hexane	1.584	1.286	18.8	88	0.00
32	T	Chloroform	1.869	1.654	11.5	84	0.01
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.795	4.4	86	0.01
34	T	Tetrahydrofuran	0.759	0.661	12.9	85	0.01
35	T	Ethyl tert-Butyl Ether	1.261	1.101	12.7	87	0.00
36	T	1,2-Dichloroethane	1.709	1.431	16.3	79	0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	90	0.00
38	T	1,1,1-Trichloroethane	0.411	0.361	12.2	84	0.00
39	T	Isopropyl Acetate	0.169	0.152	10.1	82	0.00
40	T	1-Butanol	0.202	0.243	-20.3	79	0.00
41	T	Benzene	1.053	0.903	14.2	84	0.00
42	T	Carbon Tetrachloride	0.336	0.307	8.6	84	0.00
43	T	Cyclohexane	0.367	0.318	13.4	87	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.642	11.8	83	0.00
45	T	1,2-Dichloropropane	0.268	0.233	13.1	80	0.00
46	T	Bromodichloromethane	0.361	0.336	6.9	83	0.00
47	T	Trichloroethene	0.238	0.218	8.4	85	0.00
48	T	1,4-Dioxane	0.207	0.195	5.8	82	0.00
49	T	Isooctane	0.987	0.835	15.4	81	0.00
50	T	Methyl Methacrylate	0.102	0.097	4.9	83	0.00
51	T	n-Heptane	0.256	0.219	14.5	82	0.00

LM 12/18/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180601.D
Acq On : 18 Dec 2006 7:08
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 07:34:48 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.403	11.4	80	0.00
53	T	4-Methyl-2-pentanone	0.246	0.221	10.2	79	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.376	11.3	78	0.00
55	T	1,1,2-Trichloroethane	0.261	0.234	10.3	81	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	88	0.00
57	S	Toluene-d8 (SS2)	2.035	1.993	2.1	86	0.00
58	T	Toluene	2.041	1.803	11.7	81	0.00
59	T	2-Hexanone	1.166	1.043	10.5	76	0.00
60	T	Dibromochloromethane	0.515	0.482	6.4	81	0.00
61	T	1,2-Dibromoethane	0.549	0.508	7.5	80	0.00
62	T	Butyl Acetate	1.288	1.161	9.9	76	0.00
63	T	n-Octane	0.422	0.376	10.9	80	0.00
64	T	Tetrachloroethene	0.450	0.409	9.1	83	0.00
65	T	Chlorobenzene	1.315	1.182	10.1	80	0.00
66	T	Ethylbenzene	2.390	2.154	9.9	79	0.00
67	T	m- & p-Xylene	1.538	1.400	9.0	80	0.00
68	T	Bromoform	0.319	0.314	1.6	82	0.00
69	T	Styrene	1.387	1.318	5.0	81	0.00
70	T	o-Xylene	1.663	1.522	8.5	80	0.00
71	T	n-Nonane	1.028	0.889	13.5	75	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.730	8.1	79	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.647	-8.4	94	0.00
74	T	Cumene	2.142	1.962	8.4	80	0.00
75	T	alpha-Pinene	1.139	1.033	9.3	80	0.00
76	T	n-Propylbenzene	2.877	2.652	7.8	80	0.00
77	T	3-Ethyltoluene	2.349	2.158	8.1	79	0.00
78	T	4-Ethyltoluene	2.172	2.049	5.7	82	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.772	7.4	80	0.00
80	T	alpha-Methylstyrene	1.020	0.982	3.7	80	0.00
81	T	2-Ethyltoluene	2.366	2.196	7.2	80	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.781	6.3	81	0.00
83	T	n-Decane	1.108	0.982	11.4	77	0.00
84	T	Benzyl Chloride	1.805	1.717	4.9	78	0.00
85	T	1,3-Dichlorobenzene	1.007	0.952	5.5	83	0.00
86	T	1,4-Dichlorobenzene	0.977	0.919	5.9	82	0.00
87	T	sec-Butylbenzene	2.519	2.337	7.2	81	0.00
88	T	p-Isopropyltoluene	2.033	1.905	6.3	81	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.725	7.0	81	0.00
90	T	1,2-Dichlorobenzene	0.939	0.886	5.6	83	0.00
91	T	d-Limonene	0.792	0.743	6.2	78	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.323	-3.2	83	0.00
93	T	n-Undecane	1.035	0.901	12.9	79	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.189	-1.1	89	0.00
95	T	Naphthalene	2.210	2.281	-3.2	88	0.00
96	T	n-Dodecane	0.745	0.671	9.9	85	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.302	0.3	89	0.00

LM 12/18/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180605.D
Acq On : 18 Dec 2006 11:30
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12050601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 17:12:52 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	87	-0.01
2	T	Propene	1.223	1.481	-21.1	86	0.01
3	T	Dichlorodifluoromethane	2.559	2.781	-8.7	82	0.01
4	T	Chloromethane	2.080	2.088	-0.4	80	0.00
5	T	Freon 114	0.675	0.956	-41.6#	103	0.02
6	T	Vinyl Chloride	1.418	1.593	-12.3	78	0.00
7	T	1,3-Butadiene	1.375	1.483	-7.9	82	0.00
8	T	Bromomethane	1.051	1.128	-7.3	83	0.01
9	T	Chloroethane	0.974	1.030	-5.7	82	0.00
10	T	Ethanol	0.753	0.600	20.3	92	-0.01
11	T	Acetonitrile	2.237	1.924	14.0	80	0.01
12	T	Acrolein	0.731	0.680	7.0	83	0.01
13	T	Acetone	1.046	1.332	-27.3	101	0.00
14	T	Trichlorofluoromethane	1.741	1.860	-6.8	87	0.00
15	T	Isopropanol	3.201	3.291	-2.8	82	0.00
16	T	Acrylonitrile	1.580	1.403	11.2	83	0.00
17	T	1,1-Dichloroethene	1.172	1.170	0.2	80	0.00
18	T	tert-Butanol	2.959	3.235	-9.3	80	0.00
19	T	Methylene Chloride	1.345	1.371	-1.9	82	0.00
20	T	Allyl Chloride	1.722	1.451	15.7	74	0.00
21	T	Trichlorotrifluoroethane	0.683	0.857	-25.5	96	0.00
22	T	Carbon Disulfide	4.831	4.926	-2.0	80	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.840	2.2	82	-0.01
24	T	1,1-Dichloroethane	1.910	2.029	-6.2	88	-0.01
25	T	Methyl tert-Butyl Ether	3.036	3.255	-7.2	80	0.00
26	T	Vinyl Acetate	0.253	0.286	-13.0	85	0.00
27	T	2-Butanone	0.805	0.823	-2.2	87	0.00
28	T	cis-1,2-Dichloroethene	1.761	1.635	7.2	77	-0.02
29	T	Diisopropyl Ether	0.832	0.968	-16.3	88	0.00
30	T	Ethyl Acetate	0.404	0.400	1.0	79	0.00
31	T	n-Hexane	1.584	1.901	-20.0	88	0.00
32	T	Chloroform	1.869	1.964	-5.1	80	-0.02
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.860	0.9	83	-0.01
34	T	Tetrahydrofuran	0.759	0.732	3.6	79	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.378	-9.3	84	0.00
36	T	1,2-Dichloroethane	1.709	1.614	5.6	78	-0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	89	0.00
38	T	1,1,1-Trichloroethane	0.411	0.405	1.5	83	-0.01
39	T	Isopropyl Acetate	0.169	0.164	3.0	83	0.00
40	T	1-Butanol	0.202	0.137	32.2#	90	0.01
41	T	Benzene	1.053	1.045	0.8	80	0.00
42	T	Carbon Tetrachloride	0.336	0.329	2.1	87	-0.01
43	T	Cyclohexane	0.367	0.401	-9.3	88	-0.02
44	T	tert-Amyl Methyl Ether	0.728	0.719	1.2	82	0.00
45	T	1,2-Dichloropropane	0.268	0.251	6.3	81	-0.02
46	T	Bromodichloromethane	0.361	0.334	7.5	82	-0.01
47	T	Trichloroethene	0.238	0.242	-1.7	88	0.00
48	T	1,4-Dioxane	0.207	0.188	9.2	82	0.00
49	T	Isooctane	0.987	1.012	-2.5	84	0.00
50	T	Methyl Methacrylate	0.102	0.094	7.8	84	0.00
51	T	n-Heptane	0.256	0.263	-2.7	86	0.00

LM 12/18/06

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Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180605.D
Acq On : 18 Dec 2006 11:30
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12050601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 17:12:52 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.417	8.4	79	0.00
53	T	4-Methyl-2-pentanone	0.246	0.222	9.8	79	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.370	12.7	77	0.00
55	T	1,1,2-Trichloroethane	0.261	0.239	8.4	81	-0.02
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	87	0.00
57	S	Toluene-d8 (SS2)	2.035	2.028	0.3	86	-0.01
58	T	Toluene	2.041	2.058	-0.8	81	0.00
59	T	2-Hexanone	1.166	1.041	10.7	77	0.00
60	T	Dibromochloromethane	0.515	0.499	3.1	84	-0.01
61	T	1,2-Dibromoethane	0.549	0.544	0.9	83	0.00
62	T	Butyl Acetate	1.288	1.131	12.2	75	0.00
63	T	n-Octane	0.422	0.412	2.4	79	0.00
64	T	Tetrachloroethene	0.450	0.461	-2.4	82	0.00
65	T	Chlorobenzene	1.315	1.299	1.2	80	-0.01
66	T	Ethylbenzene	2.390	2.351	1.6	80	-0.01
67	T	m- & p-Xylene	1.538	1.513	1.6	79	-0.03
68	T	Bromoform	0.319	0.297	6.9	83	0.00
69	T	Styrene	1.387	1.303	6.1	80	0.00
70	T	o-Xylene	1.663	1.642	1.3	81	-0.01
71	T	n-Nonane	1.028	0.941	8.5	74	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.760	4.3	81	-0.01
73	S	Bromofluorobenzene (SS3)	0.597	0.650	-8.9	94	0.00
74	T	Cumene	2.142	2.181	-1.8	83	0.00
75	T	alpha-Pinene	1.139	1.093	4.0	78	0.00
76	T	n-Propylbenzene	2.877	2.796	2.8	80	0.00
77	T	3-Ethyltoluene	2.349	2.295	2.3	82	0.00
78	T	4-Ethyltoluene	2.172	2.138	1.6	79	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.920	-0.4	81	0.00
80	T	alpha-Methylstyrene	1.020	0.901	11.7	78	0.00
81	T	2-Ethyltoluene	2.366	2.330	1.5	80	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.866	1.8	81	-0.01
83	T	n-Decane	1.108	1.037	6.4	77	0.00
84	T	Benzyl Chloride	1.805	1.610	10.8	78	0.00
85	T	1,3-Dichlorobenzene	1.007	0.985	2.2	80	-0.01
86	T	1,4-Dichlorobenzene	0.977	0.966	1.1	81	0.00
87	T	sec-Butylbenzene	2.519	2.478	1.6	79	0.00
88	T	p-Isopropyltoluene	2.033	1.974	2.9	79	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.819	1.9	81	0.00
90	T	1,2-Dichlorobenzene	0.939	0.926	1.4	81	0.00
91	T	d-Limonene	0.792	0.689	13.0	75	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.266	15.0	81	0.00
93	T	n-Undecane	1.035	0.945	8.7	73	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.166	11.2	74	0.00
95	T	Naphthalene	2.210	2.019	8.6	80	0.00
96	T	n-Dodecane	0.745	0.751	-0.8	79	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.289	4.6	81	0.00

LM 12/18/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180613.D
Acq On : 18 Dec 2006 18:48
Operator : LM
Sample : 25ng TO-15 CCV Std
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 12:59:56 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	88	0.00
2	T	Propene	1.223	0.981	19.8	84	0.00
3	T	Dichlorodifluoromethane	2.559	2.262	11.6	84	0.00
4	T	Chloromethane	2.080	1.835	11.8	84	0.00
5	T	Freon 114	0.675	0.631	6.5	92	0.00
6	T	Vinyl Chloride	1.418	1.260	11.1	89	0.00
7	T	1,3-Butadiene	1.375	1.209	12.1	87	0.00
8	T	Bromomethane	1.051	0.944	10.2	89	0.00
9	T	Chloroethane	0.974	0.861	11.6	86	0.00
10	T	Ethanol	0.753	0.859	-14.1	82	0.02
11	T	Acetonitrile	2.237	2.253	-0.7	83	0.01
12	T	Acrolein	0.731	0.681	6.8	84	0.01
13	T	Acetone	1.046	0.814	22.2	87	0.00
14	T	Trichlorofluoromethane	1.741	1.617	7.1	86	0.00
15	T	Isopropanol	3.201	3.168	1.0	83	0.01
16	T	Acrylonitrile	1.580	1.550	1.9	83	0.01
17	T	1,1-Dichloroethene	1.172	1.095	6.6	86	0.00
18	T	tert-Butanol	2.959	2.698	8.8	82	0.01
19	T	Methylene Chloride	1.345	1.212	9.9	86	0.00
20	T	Allyl Chloride	1.722	1.620	5.9	82	0.00
21	T	Trichlorotrifluoroethane	0.683	0.563	17.6	94	0.00
22	T	Carbon Disulfide	4.831	4.327	10.4	86	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.678	10.8	82	0.00
24	T	1,1-Dichloroethane	1.910	1.753	8.2	83	0.00
25	T	Methyl tert-Butyl Ether	3.036	2.664	12.3	90	0.00
26	T	Vinyl Acetate	0.253	0.252	0.4	92	0.00
27	T	2-Butanone	0.805	0.757	6.0	88	0.00
28	T	cis-1,2-Dichloroethene	1.761	1.590	9.7	82	0.00
29	T	Diisopropyl Ether	0.832	0.771	7.3	90	0.00
30	T	Ethyl Acetate	0.404	0.363	10.1	86	0.00
31	T	n-Hexane	1.584	1.351	14.7	91	0.00
32	T	Chloroform	1.869	1.739	7.0	87	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.819	3.1	86	0.00
34	T	Tetrahydrofuran	0.759	0.701	7.6	88	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.165	7.6	90	0.00
36	T	1,2-Dichloroethane	1.709	1.526	10.7	83	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	90	0.00
38	T	1,1,1-Trichloroethane	0.411	0.373	9.2	87	0.00
39	T	Isopropyl Acetate	0.169	0.159	5.9	86	0.00
40	T	1-Butanol	0.202	0.256	-26.7	83	0.00
41	T	Benzene	1.053	0.936	11.1	87	0.00
42	T	Carbon Tetrachloride	0.336	0.316	6.0	87	0.00
43	T	Cyclohexane	0.367	0.329	10.4	90	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.674	7.4	87	0.00
45	T	1,2-Dichloropropane	0.268	0.244	9.0	85	0.00
46	T	Bromodichloromethane	0.361	0.343	5.0	84	0.00
47	T	Trichloroethene	0.238	0.228	4.2	89	0.00
48	T	1,4-Dioxane	0.207	0.203	1.9	86	0.00
49	T	Isooctane	0.987	0.872	11.7	85	0.00
50	T	Methyl Methacrylate	0.102	0.103	-1.0	88	0.00
51	T	n-Heptane	0.256	0.227	11.3	85	0.00

LM 12/21/06

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180613.D
Acq On : 18 Dec 2006 18:48
Operator : LM
Sample : 25ng TO-15 CCV Std
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 12:59:56 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.425	6.6	84	0.00
53	T	4-Methyl-2-pentanone	0.246	0.233	5.3	83	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.396	6.6	83	0.00
55	T	1,1,2-Trichloroethane	0.261	0.245	6.1	85	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	88	0.00
57	S	Toluene-d8 (SS2)	2.035	1.995	2.0	87	0.00
58	T	Toluene	2.041	1.883	7.7	85	0.00
59	T	2-Hexanone	1.166	1.100	5.7	81	0.00
60	T	Dibromochloromethane	0.515	0.493	4.3	83	0.00
61	T	1,2-Dibromoethane	0.549	0.523	4.7	83	0.00
62	T	Butyl Acetate	1.288	1.223	5.0	81	0.00
63	T	n-Octane	0.422	0.391	7.3	84	0.00
64	T	Tetrachloroethene	0.450	0.420	6.7	86	0.00
65	T	Chlorobenzene	1.315	1.224	6.9	84	0.00
66	T	Ethylbenzene	2.390	2.242	6.2	83	0.00
67	T	m- & p-Xylene	1.538	1.453	5.5	83	0.00
68	T	Bromoform	0.319	0.323	-1.3	84	0.00
69	T	Styrene	1.387	1.359	2.0	84	0.00
70	T	o-Xylene	1.663	1.590	4.4	84	0.00
71	T	n-Nonane	1.028	0.946	8.0	80	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.758	4.5	82	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.645	-8.0	94	0.00
74	T	Cumene	2.142	2.043	4.6	84	0.00
75	T	alpha-Pinene	1.139	1.069	6.1	83	0.00
76	T	n-Propylbenzene	2.877	2.743	4.7	83	0.00
77	T	3-Ethyltoluene	2.349	2.226	5.2	82	0.00
78	T	4-Ethyltoluene	2.172	2.118	2.5	85	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.839	3.9	84	0.00
80	T	alpha-Methylstyrene	1.020	1.007	1.3	83	0.00
81	T	2-Ethyltoluene	2.366	2.281	3.6	84	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.842	3.1	85	0.00
83	T	n-Decane	1.108	1.036	6.5	82	0.00
84	T	Benzyl Chloride	1.805	1.797	0.4	82	0.00
85	T	1,3-Dichlorobenzene	1.007	0.983	2.4	86	0.00
86	T	1,4-Dichlorobenzene	0.977	0.947	3.1	85	0.00
87	T	sec-Butylbenzene	2.519	2.436	3.3	85	0.00
88	T	p-Isopropyltoluene	2.033	1.966	3.3	84	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.803	2.8	86	0.00
90	T	1,2-Dichlorobenzene	0.939	0.915	2.6	86	0.00
91	T	d-Limonene	0.792	0.780	1.5	83	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.341	-8.9	88	0.00
93	T	n-Undecane	1.035	0.964	6.9	85	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.200	-7.0	95	0.00
95	T	Naphthalene	2.210	2.415	-9.3	93	0.00
96	T	n-Dodecane	0.745	0.735	1.3	94	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.324	-6.9	96	0.00

LM 12/21/06

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

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Project ID: **WDI** CAS Project ID: P2603389

Internal Standard Area and RT Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8 Lab File ID: 12180601.D
Analyst: Liliana Marghitoiu Date Analyzed: 12/18/06
Sampling Media: Summa Canister(s) Time Analyzed: 07:08
Test Notes:

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	383949	9.07	1673302	11.00	894835	15.82
	Upper Limit	537529	9.40	2342623	11.33	1252769	16.15
	Lower Limit	230369	8.74	1003981	10.67	536901	15.49
	Client Sample ID						
01	Method Blank	368372	9.04	1818302	10.98	926192	15.81
02	Lab Control Sample	371604	9.06	1661291	11.00	888047	15.82
03	Duplicate Lab Control Sample	376362	9.07	1695751	11.00	889474	15.82
04	WDI-VW-56-D-12-08-06 (Dilution)	349950	9.05	1655887	10.98	867150	15.81
05	WDI-VW-56-I-12-08-06 (Dilution)	380039	9.05	1805974	10.98	935264	15.81
06							
07							
08							
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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: LY Date: 12/26/06

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
16	12/4/06 21:37	12040616.D	P2603269-001 (1000ml)	[redacted]2.2, 3.5)	AB	10	
17	12/4/06 22:12	12040617.D	P2603269-001 Dil (100ml)	[redacted]2.2, 3.5)	AB	10	
18	12/4/06 22:53	12040618.D	P2603269-002 (1000ml)	[redacted]-1.9, 3.5)	AB	12	
19	12/4/06 23:29	12040619.D	P2603269-002 Dil (100ml)	[redacted].9, 3.5)	AB	12	
20	12/5/06 0:04	12040620.D	P2603269-003 (200ml)	[redacted]1.9, 3.5)	AB	13	
21	12/5/06 0:41	12040621.D	P2603269-004 (500ml)	[redacted].1, 3.5)	AB	14	Case file, Run higher
22	12/5/06 1:17	12040622.D	P2603253-002 Dil (100ml)	[redacted]2.4, 3.5)	AB	8	
23	12/5/06 1:53	12040623.D	P2603253-002 Dup Dil (100ml)	[redacted]2.4, 3.5)	AB	8	Passed as lab Dup
24	12/5/06 2:30	12040624.D	P2603244-001 Dil (100ml)	[redacted].2, 3.5)	AB	9	
25	12/5/06 3:06	12040625.D	P2603244-001 Dup Dil (100ml)	[redacted]3.2, 3.5)	AB	9	

1	12/5/06 8:02	12050601.D	25ng TO-15 CCV STD+ 2-Methylnaphthalene STD	S15-11130603/S15-11270605/S15-11280601	AB	1	Passed for TO-15
2	12/5/06 9:10	12050602.D	25ng 2-Methylnaphthalene STD	S15-11130603/S15-11280601	AB	15	Passed
3	12/5/06 10:18	12050603.D	TO-15 Method Blank (1000ml)	S15-11130603	LM	1	Passed
4	12/5/06 11:29	12050604.D	25ng TO-15 LCS STD	S15-11130603/S15-11140606	LM	2	Passed
5	12/5/06 12:17	12050605.D	25ng 2-Methylnaphthalene LCS STD	S15-11130603/S15-11280603	LM	7	Passed
6	12/5/06 13:28	12050606.D	P2603279-002 (1000ml)	[redacted]1.8,3.5)	LM	16	
7	12/5/06 14:21	12050607.D	P2603279-002 dup (1000ml)	[redacted].8,3.5)	LM	16	Passed as lab Dup
8	12/5/06 15:26	12050608.D	P2603279-001 (1000ml)	[redacted]8,3.5)	LM	11	
9	12/5/06 16:17	12050609.D	P2603269-003 DIL (10ml)	[redacted]1.9,3.5)	LM	1	
10	12/5/06 18:00	12050610.D	P2603269-004 (1000ml)	[redacted]0.1,3.5)	LM	14	
11	12/5/06 18:36	12050611.D	5ng CCV STD	S15-12050604(test can)	LM	1	
12	12/5/06 19:12	12050612.D	blank (200ml)	rinse	LM	1	

1	12/6/06 9:29	12060601.D	Blank(200ml)	S15-12050601	LM	1	
2	12/6/06 10:21	12060602.D	5ng TO-15 CCV STD	S15-12050601/S15-12050604	LM	1	Failed
3	12/6/06 12:13	12060603.D	25ng TO-15 CCV STD	S15-12050601/S15-11270605	LM	1	Failed
4	12/6/06 13:16	12060604.D	Blank(500ml)	S15-12050601	LM	1	Clean system.
5	12/6/06 14:54	12060605.D	Blank(200ml)	S15-12050601	LM	1	
6	12/6/06 15:30	12060606.D	25ng TO-15 BFB	S15-12050601	LM	1	Passed
7	12/6/06 16:06	12060607.D	0.5ng TO-15 ICAL STD	S15-12050601/S15-12050604	LM	1	ICAL ok for all compounds 0.5-100ng
8	12/6/06 16:42	12060608.D	1ng TO-15 ICAL STD	S15-12050601/S15-12050604	LM	1	
9	12/6/06 17:17	12060609.D	5ng TO-15 ICAL STD	S15-12050601/S15-12050604	LM	1	
10	12/6/06 17:53	12060610.D	25ng TO-15 ICAL STD	S15-12050601/S15-12050606	LM	1	
11	12/6/06 18:28	12060611.D	50ng TO-15 ICAL STD	S15-12050601/S15-12050606	LM	1	
12	12/6/06 19:04	12060612.D	100ng TO-15 ICAL STD	S15-12050601/S15-12050606	LM	1	
13	12/6/06 19:39	12060613.D	25ng TO-15 ICV STD	S15-12050601/S15-12050608	LM	2	Passed

LM 12/12/06

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	12/14/06 9:24	12140601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Tri/Ethylmethylbenzene/Methylbenzene/Trimethylben
2	12/14/06 10:07	12140602.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
3	12/14/06 11:20	12140603.D	TO-15 Method Blank (1000ml)	S15-12050601	LM	1	Passed
4	12/14/06 12:11	12140604.D	1ng TO-15 CCV Std	S15-12050601	LM	1	Passed
5	12/14/06 12:54	12140605.D	25ng TO-15 LCS STD	S15-12050601/S15-12050608	LM	2	Passed
6	12/14/06 13:30	12140606.D	25ng TO-15 LCSD STD	S15-12050601/S15-12050608	LM	2	Passed
7	12/14/06 14:06	12140607.D	P2603298-012 (0.70ml)	[redacted]1.5,10.0)	LM	2	
8	12/14/06 14:42	12140608.D	P2603298-013 (0.70ml)	[redacted].8,10.0)	LM	1	
9	12/14/06 15:19	12140609.D	P2603298-014 (10ml)	[redacted],10.2)	LM	1	
10	12/14/06 16:20	12140610.D	P2603371-010 (1000ml)	TRC WDI-IBM-49-12-0606 (-2.3,3.5)	LM	12	
11	12/14/06 17:03	12140611.D	P2603371-010 dup (1000ml)	TRC WDI-IBM-49-12-0606 (-2.3,3.5)	LM	12	
12	12/14/06 18:22	12140612.D	P2603371-011 (1000ml)	TRC WDI-IBM-21-12-06-06 (-3.6,3.6)	LM	5	
13	12/14/06 19:03	12140613.D	P2603389-001 (1000ml)	TRC WDI-VW-56-S-12-08-06 (-3.1,3.5)	LM	6	
14	12/14/06 19:44	12140614.D	P2603389-002 (1000ml)	TRC WDI-VW-56-S-12-08-06-SC (-3.3,3.5)	LM	7	
15	12/14/06 20:24	12140615.D	P2603389-003 (1000ml)	TRC WDI-VW-56-I-12-08-06 (-3.5,3.5)	LM	8	
16	12/14/06 21:05	12140616.D	P2603389-004 (1000ml)	TRC WDI-VW-56-D-12-08-06 (-3.2,3.5)	LM	9	
17	12/14/06 21:40	12140617.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	
18	12/14/06 22:16	12140618.D	P2603298-014 (400ml)	[redacted].1,10.2)	LM	4	
19	12/14/06 22:56	12140619.D	P2603396-001 (1000ml)	[redacted]-3.7,3.5)	LM	13	
20	12/14/06 23:37	12140620.D	P2603396-003(1000ml)	[redacted]-2.8,3.5)	LM	14	
21	12/15/06 0:17	12140621.D	P2603396-004 (1000ml)	[redacted]1.9,3.5)	LM	15	
22	12/15/06 0:58	12140622.D	P2603396-005 (1000ml)	[redacted]-2.5,3.5)	LM	16	
23	12/15/06 1:39	12140623.D	P2603396-006 (1000ml)	[redacted](-2.6,3.5)	LM	10	
24	12/15/06 2:14	12140624.D	~~P2603396-006 (1000ml)~~	[redacted]	LM	12	

1	12/15/06 9:03	12150601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
2	12/15/06 10:15	12150602.D	TO-15 Method Blank (1000ml)	S15-12050601	LM	1	Passed
3	12/15/06 11:31	12150603.D	25ng TO-15 LCS Std	S15-12050601/S15-12050608	LM	2	Passed
4	12/15/06 12:13	12150604.D	25ng TO-15 LCSD Std	S15-12050601/S15-12050608	LM	2	Passed / Passed as Dup
5	12/15/06 12:50	12150605.D	1ng TO-15 CCV STD	S15-12050601/S15-12050605	LM	1	Passed
6	12/15/06 13:43	12150606.D	P2603371-009 DIL (100ml)	TRC WDI-IBM-3212-0606 (-2.5,3.6)	LM	11	Case file, Claim case
7	12/15/06 14:23	12150607.D	P2603389-003 DIL (100ml)	TRC WDI-VW-56-I-12-08-06 (-5.5,3.5)	LM	8	Case file, Rerun.
8	12/15/06 15:32	12150608.D	P2603~~311~~-001 (10ml)	[redacted].3 (-5.5,3.5)	LM	1	
9	12/15/06 16:19	12150609.D	P2603406-001 (30ml)	TRC WDI-IBM-50-10-06 (-3.7,3.6)	LM	4	Case file, Rerun higher
10	12/15/06 17:07	12150610.D	P2603406-003 (1000ml)	TRC WDI-IBM-24-12-10-06 (-2.7,3.5)	LM	5	
11	12/15/06 17:52	12150611.D	P2603406-003 dup (1000ml)	TRC WDI-IBM-24-12-10-06 (-2.7,3.5)	LM	5	Passed as Dup
12	12/15/06 18:57	12150612.D	P2603311-001 (10ml)	[redacted](0.3,3.5)	LM	4	
13	12/15/06 19:33	12150613.D	P2603~~311~~-001 (10ml)	TRC WDI-IBM-50-12-10-06 (-3.2,3.5)	LM	4	Case file, Rerun
14	12/15/06 20:09	12150614.D	P2603406-002 (50ml)	TRC WDI-IBM-28-12-10-06 (-3.2,3.5)	LM	6	
15	12/15/06 20:45	12150615.D	P2603406-004 (100ml)	TRC WDI-IBM-24B-12-10-06 (-2.5,3.5)	LM	7	
16	12/15/06 21:21	12150616.D	P2603389-004 dil (100ml)	TRC WDI-VW-56-D-12-08-06 (-3.2,3.5)	LM	9	
17	12/15/06 21:56	12150617.D	25ng CCV	S15-12050601/S15/12050606	LM	1	CCV outside 12 hours run

8

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
18	12/15/06 22:32	12150618.D	Blank (100ml)	rinse	LM	1	
19	12/15/06 23:12	12150619.D	P2603413-015 (1000ml)	[redacted]2.0,3.0)	LM	11	
20	12/15/06 23:55	12150620.D	P2603413-015 dup (1000ml)	[redacted]-2.0,3.0)	LM	11	Passed as dup
21	12/16/06 0:36	12150621.D	P2603413-013 (1000ml)	[redacted]2.6,1.0)	LM	8	
22	12/16/06 1:17	12150622.D	P2603413-014 (1000ml)	[redacted]3.3,1.0)	LM	10	
23	12/16/06 1:59	12150623.D	P2603413-016 (1000ml)	[redacted]2.9,1.0)	LM	12	
24	12/16/06 2:40	12150624.D	P2603413-017 (1000ml)	[redacted]3.9,1.0)	LM	13	
25	12/16/06 3:22	12150625.D	P2603413-018 (1000ml)	[redacted]3.1,1.0)	LM	15	
26	12/16/06 4:02	12150626.D	P2603396-002 (1000ml)	[redacted](-2.8,3.5)	LM	14	
27	12/16/06 4:38	12150627.D	P2603311-001 (100ml)	[redacted](0.3,3.5)	LM	2	
28	12/16/06 5:14	12150628.D	blank(100ml)	rinse	LM	1	

	Date/T
1	12/19/0
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18	12/19/0
19	12/19/0
20	12/19/0
21	12/20/
22	12/20/
23	12/20
24	12/20

1	12/18/06 7:08	12180601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
2	12/18/06 8:28	12180602.D	TO-15 Method Blank (1000ml)	S15-12050601	LM	1	Passed
3	12/18/06 9:31	12180603.D	25ng TO-15 LCS STD	S15-12050601/S15-12050608	LM	10	Passed
4	12/18/06 10:42	12180604.D	25ng TO-15 LCSD STD	S15-12050601/S15-12050608	LM	10	Passed
5	12/18/06 11:30	12180605.D	1ng TO-15 CCV STD	S15-12050601/S15-12050604	LM	1	Passed
6	12/18/06 12:45	12180606.D	P2603371-009 Dil (100ml)	TRC WDI-IBM-32-12-06-06 (-2.5,3.6)	LM	11	
7	12/18/06 13:21	12180607.D	P2603389-004 Dil (100ml)	TRC WDI-VW-56-D-12-08-06 (-3.2,3.5)	LM	9	
8	12/18/06 14:22	12180608.D	P2603406-002 (1000ml)	TRC WDI-IBM-28-12-10-06 (-3.2,3.5)	LM	6	
9	12/18/06 15:18	12180609.D	P2603406-004 (1000ml)	TRC WDI-IBM-24B-12-10-06 (-2.5,3.5)	LM	7	
10	12/18/06 16:21	12180610.D	P2603406-005 (1000ml)	TRC WDI-IBM-03B-12-10-06 (-2.6,3.8)	LM	11	
11	12/18/06 17:21	12180611.D	P2603406-005 dup (1000ml)	TRC WDI-IBM-03B-12-10-06 (-2.6,3.8)	LM	11	Passed as dup
12	12/18/06 17:59	12180612.D	P2603389-003 dil (100ml)	TRC WDI-VW-56-I-12--0806 (-3.5,3.5)	LM	2	
13	12/18/06 18:48	12180613.D	25ng TO-15 CCV Std	S15-12050601/S15-12050606	LM	1	Passed
14	12/18/06 19:29	12180614.D	P2603399-001 (1000ml)	[redacted](-2.9,3.5)	LM	6	
15	12/18/06 20:10	12180615.D	P2603399-002 (1000ml)	[redacted](-2.6,3.6)	LM	7	
16	12/18/06 20:50	12180616.D	P2603399-003 (1000ml)	[redacted](-2.9,3.6)	LM	8	
17	12/18/06 21:31	12180617.D	P2603399-004 (1000ml)	[redacted](-2.3,3.6)	LM	9	
18	12/18/06 22:12	12180618.D	P2603400-001 (1000ml)	[redacted]2.5,3.6)	LM	12	
19	12/18/06 22:53	12180619.D	P2603400-002 (1000ml)	[redacted]2.7,3.5)	LM	13	
20	12/18/06 23:33	12180620.D	P2603400-003 (1000ml)	[redacted]-4.3,3.6)	LM	14	
21	12/19/06 0:14	12180621.D	P2603400-004 (1000ml)	[redacted]2.6,3.6)	LM	15	
22	12/19/06 0:55	12180622.D	P2603353-003 (1000ml)	[redacted]2.3,3.6)	LM	16	
23	12/19/06 1:31	12180623.D	P2603353-003 Dil (100ml)	[redacted]3,3.6)	LM	16	
24	12/19/06 2:07	12180624.D	blank (100ml)	rinse	LM	1	

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14	12/20
15	12/20
16	12/20

3. SDG P2603406

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

January 12, 2007

Mr. Yasser Fahmy
TRC
21 Technology Drive
Irvine, CA 92618

RE: P2603406
WDI

Dear Mr. Fahmy:

Enclosed are the results of the sample(s) submitted to our laboratory on December 12, 2006. For your reference, these analyses have been assigned our service request number P2603406.

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 101 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

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

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

March 12, 2007

Mr. Troy Gill
TRC
21 Technology Drive
Irvine, CA 92618

Re: CAS Job File P2603406

Dear Mr. Gill:

Your CAS report number P2603406 has been revised. Pursuant your request, the case narrative has been revised to include a statement regarding the mid point standards meeting criteria. The applicable pages have been included with an "R" following the page number in the bottom right corner as an indication that it is a revised page.

Please retain this letter for your records and either return the original pages to CAS/Simi Valley or properly discard. Please contact me at (805) 526-7161 if you have any questions.

Regards,

Kate Aguilera

Kate Aguilera
Project Manager

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

LABORATORY REPORT

Client:	TRC	Date of Report:	01/12/07
		Date of Revision:	**03/12/07**
Address:	21 Technology Drive	Date Received:	12/12/06
	Irvine, CA 92618	CAS Project No:	P2603406
Contact:	Mr. Yasser Fahmy	Purchase Order:	Verbal

Client Project ID: WDI

Twelve (12) Stainless Steel Summa Canisters labeled:

"WDI-IBM-50-12-10-06"	"WDI-IBM-28-12-10-06"	"WDI-IBM-24-12-10-06"
"WDI-IBM-24B-12-10-06"	"WDI-IBM-03B-12-10-06"	"WDI-IBM-50-12-10-06-SC"
"WDI-VW-31-S-12-12-06"	"WDI-VW-31-D-12-12-06"	"WDI-VW-34-D-12-12-06"
"WDI-VW-34-I-12-12-06"	"WDI-VW-34-S-12-12-06"	"WDI-VW-34-I-12-12-06-SC"

The samples were received at the laboratory under chain of custody on December 12, 2006. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Methane and Total Gaseous Non-Methane Organics as Methane Analysis

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

The mid point standard meets the percent difference criteria of 15%.

Fixed Gases Analysis

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

The mid point standard meets the percent difference criteria of 10%.

Reviewed and Approved:

Aristotle Bragasin
Analytical Chemist
Air Quality Laboratory

Reviewed and Approved:

Wade Henton
GC-VOA Team Leader
Air Quality Laboratory

2R

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

CAS Project No: P2603406

Volatile Organic Compound Analysis

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

On 12/15/06 the closing CCV was outside of the 12-hours tune. The sample identified as "WDI-IBM-24-12-10-06" and its duplicate were reported from this batch.

On 12/20/06 and 12/19/06 vinyl chloride was biased low on the closing CCV.

Volatile Organic Compound Analysis

Six of the samples were also analyzed by combined gas chromatography/mass spectrometry (GC/MS) in selective ion monitoring (SIM) mode for selected volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical system used was comprised of an Agilent Model 5973N GC/MS/DS interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets. 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.
Sample Acceptance Check Form

Client: TRC Work order: P2603406

Project: WDI

Sample(s) received on: 12/12/06 Date opened: 12/12/06 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
P2603406-001			NA	
P2603406-002			NA	
P2603406-003			NA	
P2603406-004			NA	
P2603406-005			NA	
P2603406-006			NA	
P2603406-007			NA	
P2603406-008			NA	
P2603406-009			NA	
P2603406-010			NA	

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

COAs listed on COC were not received.

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: TRC Work order: P2603406

Project: WDI

Sample(s) received on: 12/12/06 Date opened: 12/12/06 by: MZ

Lab Sample ID	Required pH (as received, if required)	pH (as received, if required)	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2603406-011			NA	
P2603406-012			NA	

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. P2603406

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

Project Name: WDI

Project Number:

Project Manager: YASSER FAHMY

Phone: (949) 727-9336

Fax: (949) 753-0111

P.O. # / Billing Information:

Email Address for Result Reporting: YFAHMY@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 METHANE ORGANIC CARBON)	EPA 3C MODIFIED (METHANE)		Comments e.g. Actual Preservative or specific instructions
WDI-IBM-50-12-~~09~~ 10-06	1 -7.5	12-10-06	1338	AIR	AC00589	FC00227	6L	X	X	X		
WDI-IBM-28-12-10-06	2 -6.5	12-10-06	1445	AIR	AC00926	FC00586	6L	X	X	X		
WDI-IBM-24-12-10-06	3 -5.5	12-10-06	1406	AIR	AC00594	FC00152	6L	X	X	X		
WDI-IBM-24B-12-10-06	4 -5.1	12-10-06	1354	AIR	AC00756	FC00005	6L	X	X	X		
WDI-IBM-03B-12-10-06	5 -5.2	12-10-06	1416	AIR	AC00404	FC00302	6L	X	X	X		
WDI-IBM-50-12-10-06-SC	6 -5.8	12-10-06	1338	AIR	AC01273	FC00410	6L	X	X	X		
WDI-VW-31-S-12-12-06	7 -5.1	12-12-06	1129	AIR	SC00037	6V-.5-047	6L	X	X	X		
WDI-VW-31-D-12-12-06	8 -7.4	12-12-06	1129	AIR	SC00203	6V-.5-085	6L	X	X	X		
WDI-VW-34-D-12-12-06	9 -7.6	12-12-06	1253	AIR	SC00592	6V-.5-080	6L	X	X	X		
WDI-VW-34-I-12-12-06	10 -7.6	12-12-06	1253	AIR	SC00041	6V-.5-033	6L	X	X	X		
WDI-VW-34-S-12-12-06	11 -7.0	12-12-06	1253	AIR	SC00263	6V-.5-087	6L	X	X	X		
WDI-VW-34-I-12-12-06-SC	12 -8.1	12-12-06	1253	AIR	SC00286	6V-.5-062	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	12/12/06	1400	[signature]	12/12/06	1400
[signature]	12/12/06	1535	[signature]	12/12/06	1535

Cooler / Blank: 10749
Temperature: 10818 °C

Organic Analyses Support Documentation

Veridian Project Name: WDI-TRC
Sample Collection Dates: 12/10/ and 12/12/2006
Project Manager: Yasser Fahmy - TRC
Laboratory: Columbia Analytical Servies, Inc.

Reviewed By: T.A.Young
Approved By: W.G.Kay
Completion Date: 3/15/07

Deliverables:
- CLP ☐
- Tier III ☒
- Tier IV ☐
- Limited ☐
- Other

SDG*: **P2603406**

*Refer to Table 1 in QA Review for Applicable Sample No's.

The following table indicates criteria which were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail Check if Yes or Footnote Letter for Comments Below				Problems Identified Check if Yes or Footnote Number for Comments Below				Support Documentation Attachments Check if Yes or Identify Attachment No.			
	Method 3C	Method 25C	Method TO-15	Method TO-15 Modified (SIM)	Method 3C	Method 25C	Method TO-15	Method TO-15 Modified (SIM)	Method 3C	Method 25C	Method TO-15	Method TO-15 Modified (SIM)
Holding Times	✓	✓	✓	✓					✓	✓	✓	✓
Blank Analysis Results	✓	✓	✓	✓					✓	✓	✓	✓
Surrogate Spike Results			✓	✓							✓	✓
Blank Spike Results		✓	✓	✓						✓	✓	✓
Laboratory Duplicate Results	✓	✓	✓	✓					✓	✓	✓	✓
BFB Mass Tuning			✓	✓							✓	✓
Initial Calibrations	✓	✓	✓	✓					✓	✓	✓	✓
Continuing Calibrations	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
Surrogate Retention Time Shifts			✓	✓							✓	✓
Internal Standards Performance			✓	✓							✓	✓
Analytical Sequence			✓	✓							✓	✓
Other												

Comments: Samples: WDI-IBM-03B-12-10-06
WDI-VW-31-S-12-12-06

Veridian Environmental, Inc.

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
3C	Air	MB	Method Blank P061219-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603406

Veridian Environmental, Inc.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061219-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/19/06
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

all ND

Verified By: RG Date: 12/28/06

03406SVG.RD2 - MBlank

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061219-LCS

Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/19/06
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Hydrogen	40,100	36,800	**92**	90-110	
Oxygen + Argon *	50,000	51,100	**102**	90-110	
Nitrogen	50,500	49,900	**99**	90-110	
Carbon Monoxide	50,100	51,800	**103**	90-110	
Carbon Dioxide	50,400	51,900	**103**	90-110	

Verified By: RG Date: 12/28/06

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

COLUMBIA ANALYTICAL INC.

EPA 3C GC/TCD Analysis for Fixed Gases

Client & PAI Job# : TRC P2603406
Analyst : WHH
Sample amount : ~100uL

Printed : 12/21/06
Instrument : GC #1 / TCD #1
Date analyzed : 12/19/06

Sample Result

Sample ID	Hydrogen	O2/Ar	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	Pi1	Pf1	Pi2	Pf2
STD-50000ppm	37469	53053	52214	53525	43175	52781				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	6.6%	6.2%	3.3%	6.9%	7.8%	4.8%				
MB	0	0	0	0	0	0				
LAB AIR	0	227604	814222	0	0	486				
3406-001	0	138759	487806	0	0	664	-3.7	3.6		
3406-002	0	143248	501075	0	0	0	-3.2	3.6		
3406-003	0	121180	424782	0	0	506	-2.7	3.5	-1.7	2.4
3406-004	0	148957	523044	0	0	0	-2.5	3.5		
3406-005	0	121582	424713	0	0	536	-2.6	3.8	-2.2	1.4
3406-006	0	141106	493522	0	0	686	-2.8	3.5		
3406-007	0	103319	452163	0	0	25427	-2.5	3.5		
3406-008	0	66756	455333	0	0	49841	-3.6	3.5		
3406-009	0	31426	536011	0	0	77701	-3.7	3.5		
3406-010	0	143779	505394	0	0	689	-3.7	3.6		
3406-011	0	94209	523289	0	0	50959	-3.4	3.5		
3406-012	0	147109	515427	0	0	0	-4.0	3.5		
3406-004 dup	0	149773	523776	0	0	0	-2.5	3.5		
STD 50000ppm S14-09	36973	51284	50289	51853	41720	52118				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	7.8%	2.6%	0.5%	3.6%	4.2%	3.5%				

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	227604	814222	0	0	486	104.2	1.00
3406-001	0	230845	811531	0	0	1105	104.3	1.66
3406-002	0	227951	797364	0	0	0	102.5	1.59
3406-003	0	241753	847441	0	0	1009	109.0	2.00
3406-004	0	222215	780278	0	0	0	100.2	1.49
3406-005	0	239426	836369	0	0	1056	107.7	1.97
3406-006	0	215809	754799	0	0	1049	97.2	1.53
3406-007	0	154132	674538	0	0	37932	86.7	1.49
3406-008	0	109456	746581	0	0	81721	93.8	1.64
3406-009	0	51996	886854	0	0	128559	106.7	1.65
3406-010	0	239196	840792	0	0	1146	108.1	1.66
3406-011	0	151734	842819	0	0	82076	107.7	1.61
3406-012	0	250223	876708	0	0	0	112.7	1.70
3406-004 dup	0	223432	781371	0	0	0	100.5	1.49

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	37469	53053	52214	53525	43175	52781	
MB	ND	ND	ND	ND	ND	ND	
LAB AIR	ND	218343	781091	ND	ND	466	99.99
3406-001	ND	221204	777638	ND	ND	~~1059~~	99.99
3406-002	ND	222300	777600	ND	ND	ND	99.99
3406-003	ND	221729	777246	ND	ND	~~925~~	99.99
3406-004	ND	221640	778260	ND	ND	ND	99.99
3406-005	ND	222317	776603	ND	ND	~~980~~	99.99
3406-006	ND	222082	776738	ND	ND	~~1080~~	99.99
3406-007	ND	177840	778293	ND	ND	43767	99.99
3406-008	ND	116709	796054	ND	ND	87136	99.99
3406-009	ND	48708	830764	ND	ND	120428	99.99
3406-010	ND	221223	777617	ND	ND	~~1060~~	99.99
3406-011	ND	140921	782753	ND	ND	76227	99.99
3406-012	ND	222017	777883	ND	ND	ND	99.99
3406-004 dup	ND	222342	777558	ND	ND	ND	99.99

See 25°C for CH_4

WH 12/21/06

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Injection Log

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

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	08210601.d	10.	Test		21 Aug 106 12::5
2	4	08210602.d	10.	Test		21 Aug 106 13::5
3	4	08210603.d	10.	MB		21 Aug 106 13::0
4	4	08210604.d	10.	test		21 Aug 106 12::1
5	4	✓ 08210605.d	10.	STD 1 S14-03260601 (loop 0.17)		21 Aug 106 12::3
6	4	✓ 08210606.d	10.	STD 2 S14-04120602 (loop 0.17)		21 Aug 106 12::1
7	5	✓ 08210607.d	10.	STD 3 S14-04120602 (loop 1.00)		21 Aug 106 12::3
8	5	✓ 08210608.d	10.	STD 4 S14-04120602 (loop 10.47)		21 Aug 106 12::4
9	5	✓ 08210609.d	10.	STD 5 S14-~~0~~4120602 (loop 18.0)		21 Aug 106 12::5
10	5	08210610.d	10.	lab air		21 Aug 106 12::1
11	5	08210611.d	10.	icv		21 Aug 106 12::2
12	5	08210612.d	10.	ICV S14-07110501		21 Aug 106 12::5
13	5	08210613.d	10.	blank		21 Aug 106 12::1

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

DATE: 12 / 19 / 2006 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\Fxgs\2006-12\19 METHOD FILE NAME: J:\GC1\METHODS\3C082106.M

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD 500ppm S14-09010603		WB
02	MB		
03	MB		
04	Lab A.C		
05	LCS S14-12150601		
06	3470-001		
07	3406 002		
08	003		
09	004		
10	004 Dup		
11	005		
12	001		
13	006		
14	012		
15	STD 50000ppm S14-09010603		
16	3406-011		
17	010		
18	009		
19	007		
20	008		

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	3406-008		WB
22	008 Dup		
23	STD 50000ppm S14-09010603		
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S. Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
25C	Air	MB	Method Blank P061219-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603406

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061219-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: 12/19/06
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.

all ND

Verified By: RCS Date: 12/28/06

03406SVG.RD1 -MBlank

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061219-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: 12/19/06
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Methane	57.5	57.6	100	90-110	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	345	346	100	90-110	

Verified By: RC Date: 12/28/06

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

PERFORMANCE ANALYTICAL INC.

EPA 25C TCA/FID Analysis for TGNMO

Client & PAI Job# : TRC P2603406
Analyst : WHH
Sample amount : 500uL / 68uL

Printed : 12/27/06
Instrument : GC #1 / FID #1
Date analyzed : 12/19/06

Sample Results (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGNMO-2	Pi1	Pf1	Pi2	Pf2
STD S14-10110605	99.6	77.8	97.3	112.0					
ACTUAL	100.4	80.7	99.7	120.0					
% DIFF.	0.8%	3.6%	2.4%	6.6%				✓	
MB NL	0.00	0.00	0.00	0.00	0.00				
LAB AIR NL	0.90	1.97	495.73	0.00	0.00				
3406-001	1.36	1.04	273.90	10.17	0.00	-3.7	3.6		
3406-002	0.46	1.30	270.16	0.00	0.00	-3.2	3.6		
3406-003	0.58	0.82	237.87	0.00	0.00	-2.7	3.5	-1.7	2.4
3406-004	0.98	2.15	340.55	0.00	0.00	-2.5	3.5		
3406-005	0.00	1.13	234.64	2.77	0.00	-2.6	3.8	-2.2	1.4
3406-006	0.83	1.26	269.54	9.95	0.00	-2.8	3.5		
3406-007 v	0.00	0.45	v	1.39	0.00	-2.5	3.5		
3406-008 v	0.78	0.73	v	2.68	0.00	-3.6	3.5		
3406-009 v	1.15	0.52	v	3.26	0.00	-3.7	3.5		
3406-010	0.70	1.52	710.51	0.00	0.00	-3.7	3.6		
3406-011 v	0.00	0.63	v	3.15	0.00	-3.4	3.5		
3406-012	0.56	1.46	303.36	0.00	0.00	-4.0	3.5		
3406-005 dup	0.41	1.20	225.26	2.47	0.00	-2.6	3.8	-2.2	1.4
LCS 57/345ppm S14-0405	60.84	57.62	57.27	346.32					
ACTUAL	57.9	57.5	57.9	345.0					
% Recovery	105.1%	100.2%	99.0%	100.4%					
STD S14-10110605	96.02	73.94	101.97	107.13					
ACTUAL	100.4	80.7	99.7	120.0					
% DIFF.	4.4%	8.4%	2.3%	10.7%	J⊕/uJ⊖				

Lb 12/27/06

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	ND	ND	ND	1.00	1.00	1.00
LAB AIR NL	0.90	1.97	495.73	ND	ND	1.00	1.00	1.00
3406-001	ND	1.74	455.68	16.92	2.82	1.00	1.00	1.66
3406-002	ND	2.07	429.90	ND	ND	1.00	1.00	1.59
3406-003	ND	1.63	474.56	ND	ND	1.00	1.00	2.00
3406-004	ND	3.20	508.03	ND	ND	1.00	1.00	1.49
3406-005	ND	2.23	462.06	5.45	0.91	1.00	1.00	1.97
3406-006	ND	1.92	412.23	15.21	2.54	1.00	1.00	1.53
3406-007 v	ND	ND	VENT	2.07	0.34	1.00	1.00	1.49
3406-008 v	ND	1.20	VENT	4.39	0.73	1.00	1.00	1.64
3406-009 v	ND	0.87	VENT	5.40	0.90	1.00	1.00	1.65
3406-010	ND	2.53	1182.04	ND	ND	1.00	1.00	1.66
3406-011 v	ND	1.02	VENT	5.08	0.85	1.00	1.00	1.61
3406-012	ND	2.47	515.99	ND	ND	1.00	1.00	1.70
3406-005 dup	ND	2.37	443.59	4.87	0.81	1.00	1.00	1.97

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

.ine	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
	1	10200601.d	1.	STD 100/80ppmS14-10110605		20 Oct 106 12::4
2	1	10200602.d	1.	MB		20 Oct 106 12::5
3	1	10200603.d	1.	Lab Air		20 Oct 106 12::0
4	1	10200604.d	1.	LCS 345ppm		20 Oct 106 12::2
5	1	10200605.d	1.	test low		20 Oct 106 13::5
6	1	10200606.d	1.	STD 25C low level small loop	S14-10110606	20 Oct 106 13::0
7	1	10200607.d	1.	STD 25C low level normal loop	S14-10110606	20 Oct 106 13::3
8	1	10200608.d	1.	STD 25C mid level small loop	S14-10110605	20 Oct 106 12::0
9	1	10200609.d	1.	STD 25C mid level normal loop	S14-10110605	20 Oct 106 12::2
0	1	10200610.d	1.	STD 25C high level small loop	S14-10200601	20 Oct 106 12::1
1	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.	× 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

WE 10/23/06

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

DATE: 12 / 19 / 2006 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 / 2006_12 / 19 / METHOD FILE NAME: J:\GC1\METHODS\ MCO 2006 .M

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD S14-10110605		WP
02	↓		
03	MB		
04	LabA.5		
05	LCS 375 ppm S14-04050602		
06	3406-002		
07	003		
08	003 Dup		
09	004		
10	005		
11	005 Dup		
12	001		
13	006		
14	012		
15	011 ✓		
16	STD S14-10110605		
17	3406-010		
18	009 ✓		
19	008 ✓		
20	007 ✓		

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	3406-007 ✓ Dup		WP
22	STD S14-10110605		WP
23			
24			
25			
26			
27			
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37			
38			
39			
40			

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
TO-15	Air	MB	Method Blank P061218-MB	None			
			Method Blank P061219-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603406

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
TO-15 (SIM)	Air	MB	Method Blank P061220-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603406

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061215-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: 12/15/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

Data not evaluated

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061215-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: 12/15/06
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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061218-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: 12/18/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

all ND

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061218-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: 12/18/06
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.

all ND

Verified By: RCS Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061219-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: 12/19/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

all ND

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061220-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: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

Data not evaluated

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061220-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: 12/20/06
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: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603406

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: 12/10 - 12/12/06
Date Received: 12/12/06
Date Analyzed: 12/15 - 12/20/06

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	P061215-MB	90	80-120	100	80-120	111	80-120	
Method Blank	P061218-MB	91	80-120	101	80-120	108	80-120	
Method Blank	P061219-MB	98	80-120	97	80-120	103	80-120	
Method Blank	P061220-MB	88	80-120	99	80-120	114	80-120	
Lab Control Sample	P061215-LCS	91	80-120	100	80-120	108	80-120	
Lab Control Sample	P061218-LCS	91	80-120	99	80-120	107	80-120	
Lab Control Sample	P061219-LCS	99	80-120	95	80-120	110	80-120	
Lab Control Sample	P061220-LCS	89	80-120	98	80-120	113	80-120	
Duplicate Lab Control Sample	P061215-DLCS	89	80-120	101	80-120	109	80-120	
Duplicate Lab Control Sample	P061218-DLCS	91	80-120	100	80-120	108	80-120	
Duplicate Lab Control Sample	P061219-DLCS	99	80-120	96	80-120	107	80-120	
Duplicate Lab Control Sample	P061220-DLCS	88	80-120	100	80-120	111	80-120	
WDI-IBM-50-12-10-06	P2603406-001	91	80-120	100	80-120	110	80-120	
WDI-IBM-28-12-10-06	P2603406-002	94	80-120	99	80-120	106	80-120	
WDI-IBM-24-12-10-06	P2603406-003	90	80-120	100	80-120	106	80-120	
WDI-IBM-24-12-10-06	P2603406-003DUP	91	80-120	100	80-120	107	80-120	
WDI-IBM-24B-12-10-06	P2603406-004	89	80-120	101	80-120	106	80-120	
WDI-IBM-03B-12-10-06	P2603406-005	93	80-120	98	80-120	104	80-120	
WDI-IBM-03B-12-10-06	P2603406-005DUP	91	80-120	98	80-120	107	80-120	
WDI-IBM-50-12-10-06-SC	P2603406-006	89	80-120	100	80-120	109	80-120	
WDI-VW-31-S-12-12-06	P2603406-007	87	80-120	100	80-120	109	80-120	
WDI-VW-31-D-12-12-06	P2603406-008	89	80-120	98	80-120	105	80-120	
WDI-VW-34-D-12-12-06	P2603406-009	89	80-120	100	80-120	110	80-120	
WDI-VW-34-I-12-12-06	P2603406-010	89	80-120	100	80-120	109	80-120	
WDI-VW-34-I-12-12-06	P2603406-010DUP	90	80-120	100	80-120	110	80-120	
WDI-VW-34-S-12-12-06	P2603406-011	88	80-120	99	80-120	112	80-120	
WDI-VW-34-I-12-12-06-SC	P2603406-012	98	80-120	96	80-120	105	80-120	

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061215-LCS, P061215-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: 12/15/06
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	21.6	20.5	89	84	65-135	6	35	
Vinyl Chloride	24.8	21.5	23.9	87	96	65-135	10	35	
Bromomethane	25.0	23.0	22.8	92	91	65-135	1	35	
Chloroethane	25.0	21.7	21.3	87	85	65-135	2	35	
Acetone	26.5	23.2	22.4	88	85	65-135	3	35	
Trichlorofluoromethane	24.3	21.7	21.0	89	86	65-135	3	35	
1,1-Dichloroethene	27.3	24.8	24.3	91	89	65-135	2	35	
Methylene chloride	26.8	23.2	22.7	87	85	65-135	2	35	
Trichlorotrifluoroethane	27.0	24.8	25.0	92	93	65-135	1	35	
Carbon Disulfide	25.0	22.5	22.1	90	88	65-135	2	35	
trans-1,2-Dichloroethene	26.3	23.1	22.5	88	86	65-135	2	35	
1,1-Dichloroethane	26.3	23.0	22.5	87	86	65-135	1	35	
Methyl tert-Butyl Ether	26.3	23.1	22.7	88	86	65-135	2	35	
Vinyl Acetate	24.3	22.1	22.1	91	91	65-135	0	35	
2-Butanone (MEK)	26.8	24.4	24.0	91	90	65-135	1	35	
cis-1,2-Dichloroethene	26.5	22.8	22.5	86	85	65-135	1	35	
Chloroform	30.0	24.5	24.3	82	81	65-135	1	35	
1,2-Dichloroethane	26.0	22.5	22.2	87	85	65-135	2	35	
1,1,1-Trichloroethane	26.3	23.1	22.9	88	87	65-135	1	35	
Benzene	26.3	22.6	22.6	86	86	65-135	0	35	
Carbon Tetrachloride	25.8	23.6	23.7	91	92	65-135	1	35	
1,2-Dichloropropane	26.0	22.9	22.7	88	87	65-135	1	35	

Data not evaluated

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061215-LCS, P061215-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: 12/15/06
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	24.3	24.7	88	90	65-135	2	35	
Trichloroethene	27.3	25.1	25.2	92	92	65-135	0	35	
cis-1,3-Dichloropropene	26.0	21.8	21.6	84	83	65-135	1	35	
4-Methyl-2-pentanone	26.5	24.3	24.2	92	91	65-135	1	35	
trans-1,3-Dichloropropene	27.8	24.2	24.5	87	88	65-135	1	35	
1,1,2-Trichloroethane	25.8	23.2	23.1	90	90	65-135	0	35	
Toluene	26.0	23.8	23.7	92	91	65-135	1	35	
2-Hexanone	26.0	23.7	23.4	91	90	65-135	1	35	
Dibromochloromethane	26.5	25.2	24.9	95	94	65-135	1	35	
1,2-Dibromoethane	26.0	24.3	24.3	93	93	65-135	0	35	
Tetrachloroethene	25.8	24.2	24.2	94	94	65-135	0	35	
Chlorobenzene	26.0	24.2	24.1	93	93	65-135	0	35	
Ethylbenzene	25.8	23.5	23.4	91	91	65-135	0	35	
m,p-Xylenes	61.5	57.1	56.8	93	92	65-135	1	35	
Bromoform	31.3	29.9	29.9	96	96	65-135	0	35	
Styrene	25.8	24.9	24.8	97	96	65-135	1	35	
o-Xylene	29.0	27.0	26.9	93	93	65-135	0	35	
1,1,2,2-Tetrachloroethane	29.3	27.0	27.0	92	92	65-135	0	35	
1,3-Dichlorobenzene	25.3	23.9	23.8	94	94	65-135	0	35	
1,4-Dichlorobenzene	26.0	24.9	24.7	96	95	65-135	1	35	
1,2-Dichlorobenzene	25.5	24.3	24.2	95	95	65-135	0	35	

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061218-LCS, P061218-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: 12/18/06
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	21.7	21.5	89	88	65-135	1	35	
Vinyl Chloride	24.8	20.9	22.3	84	90	65-135	7	35	
Bromomethane	25.0	22.5	23.2	90	93	65-135	3	35	
Chloroethane	25.0	21.6	21.8	86	87	65-135	1	35	
Acetone	26.5	23.3	23.1	88	87	65-135	1	35	
Trichlorofluoromethane	24.3	21.7	21.4	89	88	65-135	1	35	
1,1-Dichloroethene	27.3	24.6	24.5	90	90	65-135	0	35	
Methylene chloride	26.8	23.2	23.2	87	87	65-135	0	35	
Trichlorotrifluoroethane	27.0	24.1	24.6	89	91	65-135	2	35	
Carbon Disulfide	25.0	22.3	22.5	89	90	65-135	1	35	
trans-1,2-Dichloroethene	26.3	23.3	23.2	89	88	65-135	1	35	
1,1-Dichloroethane	26.3	23.2	22.7	88	86	65-135	2	35	
Methyl tert-Butyl Ether	26.3	22.6	22.7	86	86	65-135	0	35	
Vinyl Acetate	24.3	21.9	21.8	90	90	65-135	0	35	
2-Butanone (MEK)	26.8	24.3	24.6	91	92	65-135	1	35	
cis-1,2-Dichloroethene	26.5	22.9	22.8	86	86	65-135	0	35	
Chloroform	30.0	24.7	24.4	82	81	65-135	1	35	
1,2-Dichloroethane	26.0	22.7	22.5	87	87	65-135	0	35	
1,1,1-Trichloroethane	26.3	23.3	23.1	89	88	65-135	1	35	
Benzene	26.3	22.9	22.6	87	86	65-135	1	35	
Carbon Tetrachloride	25.8	24.0	23.8	93	92	65-135	1	35	
1,2-Dichloropropane	26.0	23.2	22.8	89	88	65-135	1	35	

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061218-LCS, P061218-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: 12/18/06
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	25.1	24.5	91	89	65-135	2	35	
Trichloroethene	27.3	25.4	25.2	93	92	65-135	1	35	
cis-1,3-Dichloropropene	26.0	22.0	21.9	85	84	65-135	1	35	
4-Methyl-2-pentanone	26.5	24.7	24.3	93	92	65-135	1	35	
trans-1,3-Dichloropropene	27.8	24.8	24.4	89	88	65-135	1	35	
1,1,2-Trichloroethane	25.8	23.3	23.0	90	89	65-135	1	35	
Toluene	26.0	23.3	23.5	90	90	65-135	0	35	
2-Hexanone	26.0	23.8	23.7	92	91	65-135	1	35	
Dibromochloromethane	26.5	24.8	25.0	94	94	65-135	0	35	
1,2-Dibromoethane	26.0	24.1	24.2	93	93	65-135	0	35	
Tetrachloroethene	25.8	23.6	23.6	91	91	65-135	0	35	
Chlorobenzene	26.0	23.6	23.7	91	91	65-135	0	35	
Ethylbenzene	25.8	23.2	23.3	90	90	65-135	0	35	
m,p-Xylenes	61.5	56.5	56.7	92	92	65-135	0	35	
Bromoform	31.3	29.7	29.7	95	95	65-135	0	35	
Styrene	25.8	24.5	24.5	95	95	65-135	0	35	
o-Xylene	29.0	26.7	26.8	92	92	65-135	0	35	
1,1,2,2-Tetrachloroethane	29.3	26.6	26.7	91	91	65-135	0	35	
1,3-Dichlorobenzene	25.3	23.4	23.6	92	93	65-135	1	35	
1,4-Dichlorobenzene	26.0	24.3	24.4	93	94	65-135	1	35	
1,2-Dichlorobenzene	25.5	23.7	24.0	93	94	65-135	1	35	

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061219-LCS, P061219-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: 12/19/06
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	22.1	22.3	91	92	65-135	1	35	
Vinyl Chloride	24.8	22.5	22.9	91	92	65-135	1	35	
Bromomethane	25.0	22.7	23.3	91	93	65-135	2	35	
Chloroethane	25.0	22.0	22.1	88	88	65-135	0	35	
Acetone	26.5	23.1	23.6	87	89	65-135	2	35	
Trichlorofluoromethane	24.3	22.3	22.3	92	92	65-135	0	35	
1,1-Dichloroethene	27.3	24.8	24.6	91	90	65-135	1	35	
Methylene chloride	26.8	23.5	23.1	88	86	65-135	2	35	
Trichlorotrifluoroethane	27.0	23.8	24.4	88	90	65-135	2	35	
Carbon Disulfide	25.0	22.3	22.2	89	89	65-135	0	35	
trans-1,2-Dichloroethene	26.3	23.5	23.8	89	90	65-135	1	35	
1,1-Dichloroethane	26.3	23.7	23.8	90	90	65-135	0	35	
Methyl tert-Butyl Ether	26.3	23.6	24.3	90	92	65-135	2	35	
Vinyl Acetate	24.3	21.5	22.4	88	92	65-135	4	35	
2-Butanone (MEK)	26.8	24.1	24.6	90	92	65-135	2	35	
cis-1,2-Dichloroethene	26.5	23.4	23.6	88	89	65-135	1	35	
Chloroform	30.0	25.2	24.6	84	82	65-135	2	35	
1,2-Dichloroethane	26.0	24.2	24.1	93	93	65-135	0	35	
1,1,1-Trichloroethane	26.3	23.9	23.9	91	91	65-135	0	35	
Benzene	26.3	23.0	22.4	87	85	65-135	2	35	
Carbon Tetrachloride	25.8	24.4	24.3	95	94	65-135	1	35	
1,2-Dichloropropane	26.0	23.4	23.7	90	91	65-135	1	35	

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061219-LCS, P061219-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: 12/19/06
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	25.7	25.3	93	92	65-135	1	35	
Trichloroethene	27.3	24.5	25.4	90	93	65-135	3	35	
cis-1,3-Dichloropropene	26.0	22.5	22.2	87	85	65-135	2	35	
4-Methyl-2-pentanone	26.5	25.2	24.8	95	94	65-135	1	35	
trans-1,3-Dichloropropene	27.8	25.4	25.0	91	90	65-135	1	35	
1,1,2-Trichloroethane	25.8	23.1	22.6	90	88	65-135	2	35	
Toluene	26.0	22.1	22.0	85	85	65-135	0	35	
2-Hexanone	26.0	24.0	23.9	92	92	65-135	0	35	
Dibromochloromethane	26.5	23.8	23.3	90	88	65-135	2	35	
1,2-Dibromoethane	26.0	23.1	22.4	89	86	65-135	3	35	
Tetrachloroethene	25.8	22.3	21.5	86	83	65-135	4	35	
Chlorobenzene	26.0	22.3	23.0	86	88	65-135	2	35	
Ethylbenzene	25.8	22.9	22.7	89	88	65-135	1	35	
m,p-Xylenes	61.5	55.6	55.0	90	89	65-135	1	35	
Bromoform	31.3	28.7	28.0	92	89	65-135	3	35	
Styrene	25.8	24.0	23.3	93	90	65-135	3	35	
o-Xylene	29.0	26.4	26.0	91	90	65-135	1	35	
1,1,2,2-Tetrachloroethane	29.3	26.3	25.8	90	88	65-135	2	35	
1,3-Dichlorobenzene	25.3	23.3	21.8	92	86	65-135	7	35	
1,4-Dichlorobenzene	26.0	24.1	22.5	93	87	65-135	7	35	
1,2-Dichlorobenzene	25.5	23.5	22.0	92	86	65-135	7	35	

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061220-LCS, P061220-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: 12/20/06
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	20.7	20.6	**85**	**85**	65-135	**0**	35	
Vinyl Chloride	24.8	19.3	19.8	**78**	**80**	65-135	**3**	35	
Bromomethane	25.0	22.2	22.6	**89**	**90**	65-135	**1**	35	
Chloroethane	25.0	20.9	20.9	**84**	**84**	65-135	**0**	35	
Acetone	26.5	23.4	23.4	**88**	**88**	65-135	**0**	35	
Trichlorofluoromethane	24.3	20.6	20.8	**85**	**86**	65-135	**1**	35	
1,1-Dichloroethene	27.3	24.0	23.8	**88**	**87**	65-135	**1**	35	
Methylene chloride	26.8	22.4	22.3	**84**	**83**	65-135	**1**	35	
Trichlorotrifluoroethane	27.0	24.1	25.4	**89**	**94**	65-135	**5**	35	
Carbon Disulfide	25.0	21.9	21.7	**88**	**87**	65-135	**1**	35	
trans-1,2-Dichloroethene	26.3	22.7	22.5	**86**	**86**	65-135	**0**	35	
1,1-Dichloroethane	26.3	22.2	22.5	**84**	**86**	65-135	**2**	35	
Methyl tert-Butyl Ether	26.3	22.9	23.2	**87**	**88**	65-135	**1**	35	
Vinyl Acetate	24.3	21.5	22.0	**88**	**91**	65-135	**3**	35	
2-Butanone (MEK)	26.8	24.6	24.6	**92**	**92**	65-135	**0**	35	
cis-1,2-Dichloroethene	26.5	22.2	22.2	**84**	**84**	65-135	**0**	35	
Chloroform	30.0	23.3	23.4	**78**	**78**	65-135	**0**	35	
1,2-Dichloroethane	26.0	21.9	21.9	**84**	**84**	65-135	**0**	35	
1,1,1-Trichloroethane	26.3	22.5	22.4	**86**	**85**	65-135	**1**	35	
Benzene	26.3	22.2	22.1	**84**	**84**	65-135	**0**	35	
Carbon Tetrachloride	25.8	23.3	23.1	**90**	**90**	65-135	**0**	35	
1,2-Dichloropropane	26.0	22.5	22.5	**87**	**87**	65-135	**0**	35	

Data not evaluated

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061220-LCS, P061220-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: 12/20/06
Volume(s) Analyzed: NA

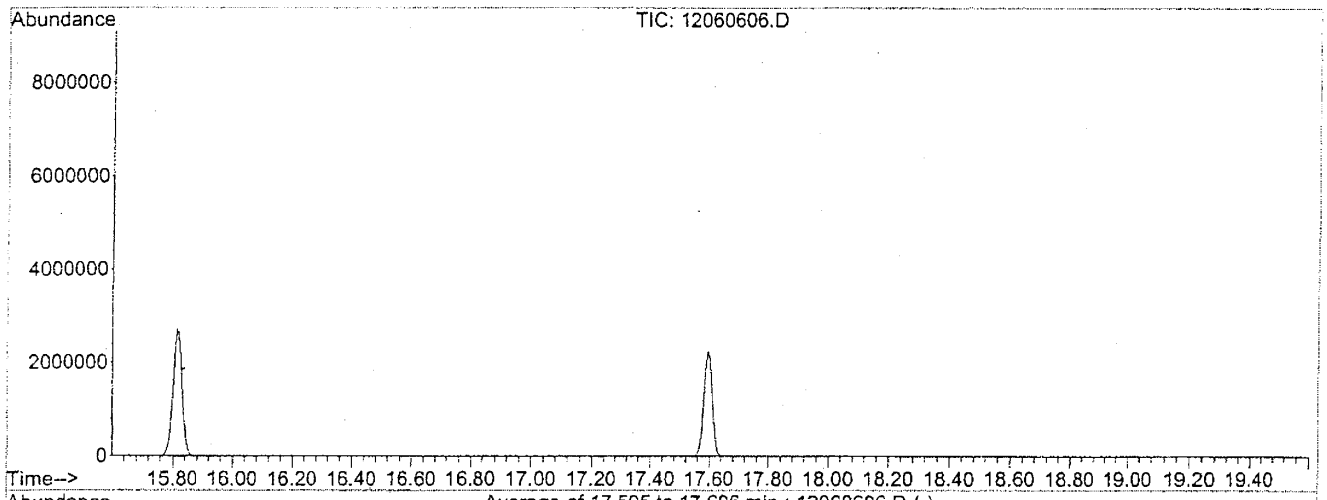
Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	24.0	23.8	87	87	65-135	0	35	
Trichloroethene	27.3	24.7	24.5	90	90	65-135	0	35	
cis-1,3-Dichloropropene	26.0	21.5	21.5	83	83	65-135	0	35	
4-Methyl-2-pentanone	26.5	24.1	23.5	91	89	65-135	2	35	
trans-1,3-Dichloropropene	27.8	24.2	23.9	87	86	65-135	1	35	
1,1,2-Trichloroethane	25.8	22.8	22.4	88	87	65-135	1	35	
Toluene	26.0	22.2	22.7	85	87	65-135	2	35	
2-Hexanone	26.0	22.4	22.8	86	88	65-135	2	35	
Dibromochloromethane	26.5	23.7	24.1	89	91	65-135	2	35	
1,2-Dibromoethane	26.0	23.0	23.4	88	90	65-135	2	35	
Tetrachloroethene	25.8	22.7	23.2	88	90	65-135	2	35	
Chlorobenzene	26.0	22.7	23.1	87	89	65-135	2	35	
Ethylbenzene	25.8	22.3	22.4	86	87	65-135	1	35	
m,p-Xylenes	61.5	54.0	54.6	88	89	65-135	1	35	
Bromoform	31.3	28.3	28.6	90	91	65-135	1	35	
Styrene	25.8	23.4	23.6	91	91	65-135	0	35	
o-Xylene	29.0	25.5	25.8	88	89	65-135	1	35	
1,1,2,2-Tetrachloroethane	29.3	25.7	26.0	88	89	65-135	1	35	
1,3-Dichlorobenzene	25.3	22.5	22.7	89	90	65-135	1	35	
1,4-Dichlorobenzene	26.0	23.5	23.5	90	90	65-135	0	35	
1,2-Dichlorobenzene	25.5	23.0	23.1	90	91	65-135	1	35	

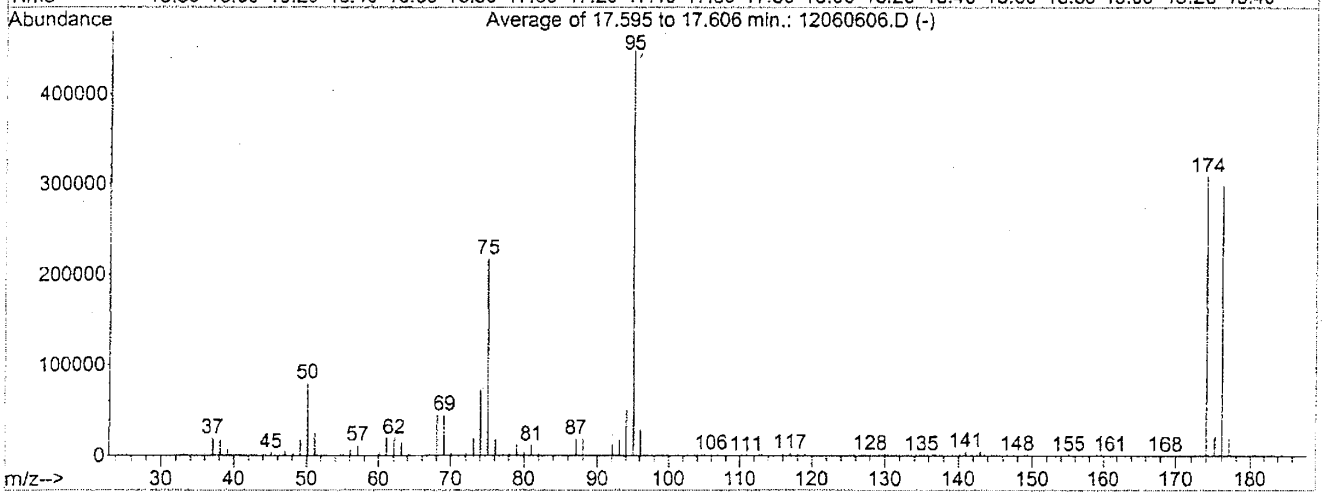
Verified By: RCS Date: 12/28/06

Data Path : J:\MS08\Data\2006_012\06\
Data File : 12060606.D
Acq On : 6 Dec 2006 15:30
Operator : LM
Sample : 25ng TO-15 BFB
Misc : S15-12050601
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 01 11:40:51 2006





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.8	79581	PASS
75	95	30	66	48.6	217322	PASS
95	95	100	100	100.0	446976	PASS
96	95	5	9	6.5	28912	PASS
173	174	0.00	2	0.2	734	PASS
174	95	50	120	69.0	308394	PASS
175	174	4	9	6.9	21202	PASS
176	174	93	101	96.6	298005	PASS
177	176	5	9	6.5	19282	PASS

LM 12/07/06

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Response Factor Report MS08

Method Path : J:\MS08\METHODS\
Method File : R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006
Response Via : Initial Calibration

%RSD ≤ 30%
all OK for Targets

Calibration Files
0.5 =12060607.D 1 =12060608.D 5 =12060609.D 25 =12060610.D
50 =12060611.D 100 =12060612.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I ----------ISTD----------								
2)	T	Propene	1.556	1.487	1.375	1.028	0.937	0.954	1.223	23.00
3)	T	Dichlorodifluorom	2.931	2.932	2.696	2.367	2.232	2.195	2.559	13.23
4)	T	Chloromethane	2.263	2.274	2.201	1.931	1.869	1.942	2.080	8.90
5)	T	Freon 114	0.815	0.806	0.700	0.606	0.575	0.545	0.675	17.40
6)	T	Vinyl Chloride	1.861	1.777	1.409	1.240	1.078	1.143	1.418	23.34
7)	T	1,3-Butadiene	1.650	1.575	1.459	1.227	1.168	1.173	1.375	15.53
8)	T	Bromomethane	1.212	1.186	1.082	0.930	0.914	0.981	1.051	12.29
9)	T	Chloroethane	1.146	1.093	1.018	0.877	0.842	0.866	0.974	13.33
10)	T	Ethanol	0.608	0.564	0.547	0.918	0.927	0.955	0.753	26.42
11)	T	Acetonitrile	2.190	2.095	2.024	2.393	2.326	2.394	2.237	7.05
12)	T	Acrolein	0.758	0.710	0.719	0.714	0.730	0.753	0.731	2.78
13)	T	Acetone	1.272	1.140	1.105	0.822	0.932	1.004	1.046	15.29
14)	T	Trichlorofluorome	1.895	1.852	1.773	1.660	1.632	1.636	1.741	6.63
15)	T	Isopropanol	3.587	3.505	2.972	3.370	2.969	2.806	3.201	10.19
16)	T	Acrylonitrile	1.573	1.464	1.561	1.634	1.608	1.642	1.580	4.14
17)	T	1,1-Dichloroethen	1.245	1.270	1.198	1.126	1.090	1.103	1.172	6.53
18)	T	tert-Butanol	3.496	3.504	3.088	2.880	2.614	2.170	2.959	17.56
19)	T	Methylene Chlorid	1.588	1.449	1.358	1.243	1.211	1.221	1.345	11.23
20)	T	Allyl Chloride	1.643	1.700	1.737	1.747	1.733	1.772	1.722	2.62
21)	T	Trichlorotrifluor	0.876	0.775	0.684	0.527	0.557	0.681	0.683	19.21
22)	T	Carbon Disulfide	5.671	5.360	4.931	4.422	4.294	4.308	4.831	12.16
23)	T	trans-1,2-Dichlor	1.968	1.948	1.906	1.796	1.809	1.858	1.881	3.81
24)	T	1,1-Dichloroethan	2.099	2.008	1.925	1.852	1.811	1.764	1.910	6.64
25)	T	Methyl tert-Butyl	3.715	3.514	3.025	2.597	2.607	2.757	3.036	15.75
26)	T	Vinyl Acetate	0.248	0.292	0.251	0.241	0.239	0.246	0.253	7.80
27)	T	2-Butanone	0.872	0.824	0.788	0.761	0.772	0.811	0.805	5.03
28)	T	cis-1,2-Dichloroe	1.883	1.839	1.764	1.700	1.682	1.700	1.761	4.73
29)	T	Diisopropyl Ether	0.954	0.958	0.848	0.749	0.730	0.752	0.832	12.58
30)	T	Ethyl Acetate	0.448	0.439	0.407	0.372	0.372	0.385	0.404	8.33
31)	T	n-Hexane	2.029	1.877	1.621	1.300	1.293	1.385	1.584	19.77
32)	T	Chloroform	2.165	2.124	1.857	1.764	1.676	1.626	1.869	12.20
33)	S	1,2-Dichloroethan	1.958	1.951	1.848	1.854	1.817	1.835	1.877	3.26
34)	T	Tetrahydrofuran	0.836	0.808	0.793	0.697	0.724	0.692	0.759	8.13
35)	T	Ethyl tert-Butyl	1.449	1.419	1.282	1.133	1.118	1.164	1.261	11.61
36)	T	1,2-Dichloroethan	1.875	1.808	1.707	1.625	1.630	1.609	1.709	6.45
37)	IR	1,4-Difluorobenzene (----------ISTD----------								
38)	T	1,1,1-Trichloroet	0.453	0.436	0.408	0.389	0.386	0.392	0.411	6.81
39)	T	Isopropyl Acetate	0.175	0.176	0.173	0.167	0.164	0.161	0.169	3.59
40)	T	1-Butanol	0.139	0.135	0.142	0.277	0.269	0.253	0.202	34.82 NTC
41)	T	Benzene	1.230	1.169	1.053	0.972	0.952	0.940	1.053	11.59
42)	T	Carbon Tetrachlor	0.344	0.338	0.339	0.328	0.331	0.338	0.336	1.66
43)	T	Cyclohexane	0.431	0.405	0.367	0.330	0.330	0.341	0.367	11.54
44)	T	tert-Amyl Methyl	0.800	0.780	0.740	0.699	0.681	0.670	0.728	7.40
45)	T	1,2-Dichloropropa	0.289	0.276	0.270	0.261	0.257	0.257	0.268	4.67
46)	T	Bromodichlorometh	0.362	0.361	0.366	0.367	0.359	0.349	0.361	1.83
47)	T	Trichloroethene	0.259	0.244	0.244	0.231	0.227	0.226	0.238	5.41
48)	T	1,4-Dioxane	0.211	0.205	0.205	0.213	0.208	0.200	0.207	2.34
49)	T	Isooctane	1.121	1.075	1.005	0.924	0.904	0.895	0.987	9.64
50)	T	Methyl Methacryla	0.099	0.100	0.104	0.106	0.104	0.101	0.102	2.63
51)	T	n-Heptane	0.287	0.272	0.264	0.242	0.235	0.234	0.256	8.60
52)	T	cis-1,3-Dichlorop	0.473	0.468	0.463	0.455	0.443	0.430	0.455	3.61
53)	T	4-Methyl-2-pentan	0.246	0.251	0.251	0.252	0.243	0.235	0.246	2.75
54)	T	trans-1,3-Dichlor	0.414	0.428	0.427	0.433	0.425	0.417	0.424	1.68
55)	T	1,1,2-Trichloroet	0.279	0.264	0.265	0.260	0.254	0.247	0.261	4.13
56)	I	Chlorobenzene-d5 (IS3 ----------ISTD----------								
57)	S	Toluene-d8 (SS2)	2.035	2.050	2.019	2.020	2.038	2.048	2.035	0.65

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Response Factor Report MS08

Method Path : J:\MS08\METHODS\
Method File : R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006
Response Via : Initial Calibration

Calibration Files
0.5 =12060607.D 1 =12060608.D 5 =12060609.D 25 =12060610.D
50 =12060611.D 100 =12060612.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
58)	T	Toluene	2.305	2.217	2.072	1.959	1.890	1.804	2.041	9.48
59)	T	2-Hexanone	1.164	1.179	1.176	1.194	1.168	1.112	1.166	2.41
60)	T	Dibromochlorometh	0.525	0.520	0.511	0.523	0.513	0.501	0.515	1.71
61)	T	1,2-Dibromoethane	0.557	0.570	0.554	0.555	0.538	0.521	0.549	3.06
62)	T	Butyl Acetate	1.269	1.306	1.284	1.329	1.298	1.243	1.288	2.32
63)	T	n-Octane	0.461	0.455	0.436	0.409	0.394	0.378	0.422	8.00
64)	T	Tetrachloroethene	0.484	0.488	0.454	0.432	0.424	0.418	0.450	6.85
65)	T	Chlorobenzene	1.430	1.414	1.334	1.289	1.234	1.190	1.315	7.31
66)	T	Ethylbenzene	2.597	2.555	2.438	2.376	2.251	2.123	2.390	7.56
67)	T	m- & p-Xylene	1.644	1.666	1.591	1.534	1.448	1.345	1.538	8.01
68)	T	Bromoform	0.297	0.310	0.324	0.336	0.328	0.318	0.319	4.45
69)	T	Styrene	1.389	1.420	1.427	1.426	1.371	1.291	1.387	3.79
70)	T	o-Xylene	1.782	1.777	1.715	1.668	1.578	1.460	1.663	7.53
71)	T	n-Nonane	1.089	1.104	1.049	1.034	0.979	0.911	1.028	7.04
72)	T	1,1,2,2-Tetrachlo	0.820	0.819	0.808	0.809	0.773	0.734	0.794	4.26
73)	S	Bromofluorobenzen	0.594	0.601	0.600	0.601	0.597	0.591	0.597	0.68
74)	T	Cumene	2.295	2.288	2.198	2.136	2.019	1.913	2.142	7.10
75)	T	alpha-Pinene	1.184	1.221	1.155	1.132	1.091	1.049	1.139	5.47
76)	T	n-Propylbenzene	3.105	3.061	2.960	2.912	2.725	2.497	2.877	7.95
77)	T	3-Ethyltoluene	2.486	2.443	2.387	2.378	2.266	2.133	2.349	5.50
78)	T	4-Ethyltoluene	2.322	2.359	2.270	2.192	2.012	1.880	2.172	8.69
79)	T	1,3,5-Trimethylbe	2.007	2.061	1.967	1.930	1.813	1.701	1.913	6.97
80)	T	alpha-Methylstyre	0.999	1.013	1.034	1.071	1.025	0.976	1.020	3.16
81)	T	2-Ethyltoluene	2.515	2.533	2.435	2.396	2.231	2.083	2.366	7.42
82)	T	1,2,4-Trimethylbe	1.990	2.016	1.965	1.915	1.812	1.702	1.900	6.37
83)	T	n-Decane	1.194	1.176	1.156	1.109	1.047	0.967	1.108	7.85
84)	T	Benzyl Chloride	1.734	1.810	1.859	1.921	1.826	1.681	1.805	4.80
85)	T	1,3-Dichlorobenze	1.065	1.068	1.025	1.004	0.961	0.918	1.007	5.88
86)	T	1,4-Dichlorobenze	1.016	1.037	1.003	0.986	0.936	0.887	0.977	5.75
87)	T	sec-Butylbenzene	2.730	2.719	2.625	2.531	2.348	2.159	2.519	8.96
88)	T	p-Isopropyltoluen	2.142	2.181	2.104	2.051	1.939	1.781	2.033	7.33
89)	T	1,2,3-Trimethylbe	2.009	1.965	1.913	1.853	1.747	1.635	1.854	7.60
90)	T	1,2-Dichlorobenze	1.026	0.992	0.951	0.939	0.891	0.835	0.939	7.33
91)	T	d-Limonene	0.781	0.798	0.827	0.829	0.781	0.733	0.792	4.52
92)	T	1,2-Dibromo-3-Chl	0.259	0.288	0.321	0.342	0.340	0.325	0.313	10.42
93)	T	n-Undecane	1.102	1.122	1.077	0.998	0.982	0.927	1.035	7.43
94)	T	1,2,4-Trichlorobe	0.189	0.196	0.182	0.185	0.186	0.185	0.187	2.56
95)	T	Naphthalene	2.120	2.196	2.197	2.281	2.280	2.184	2.210	2.80
96)	T	n-Dodecane	0.801	0.833	0.778	0.686	0.692	0.679	0.745	9.00
97)	T	Hexachloro-1,3-bu	0.303	0.310	0.304	0.298	0.300	0.300	0.303	1.32

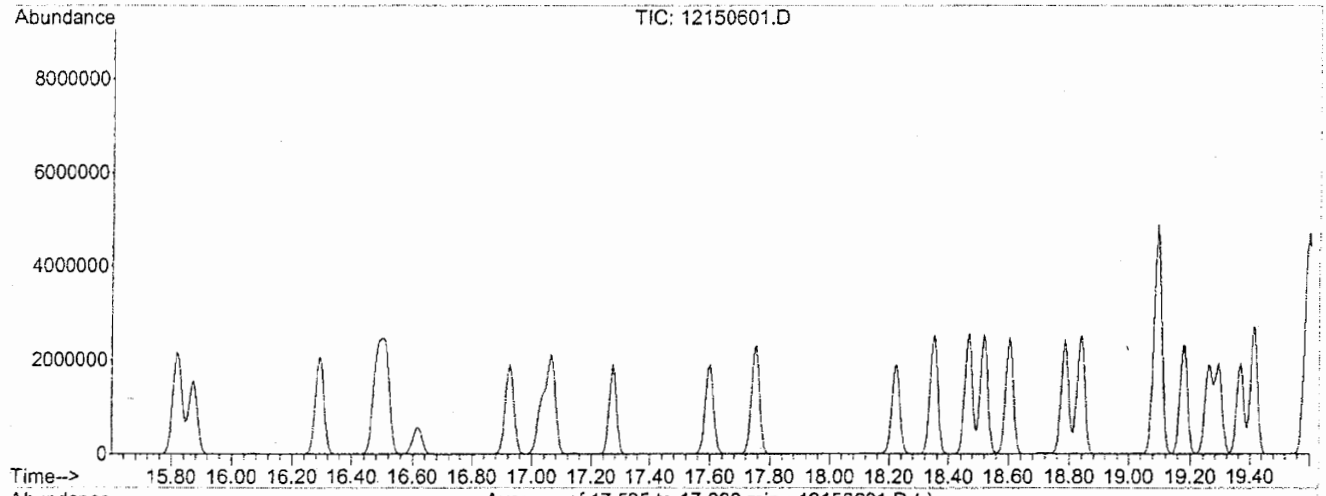
#) = Out of Range

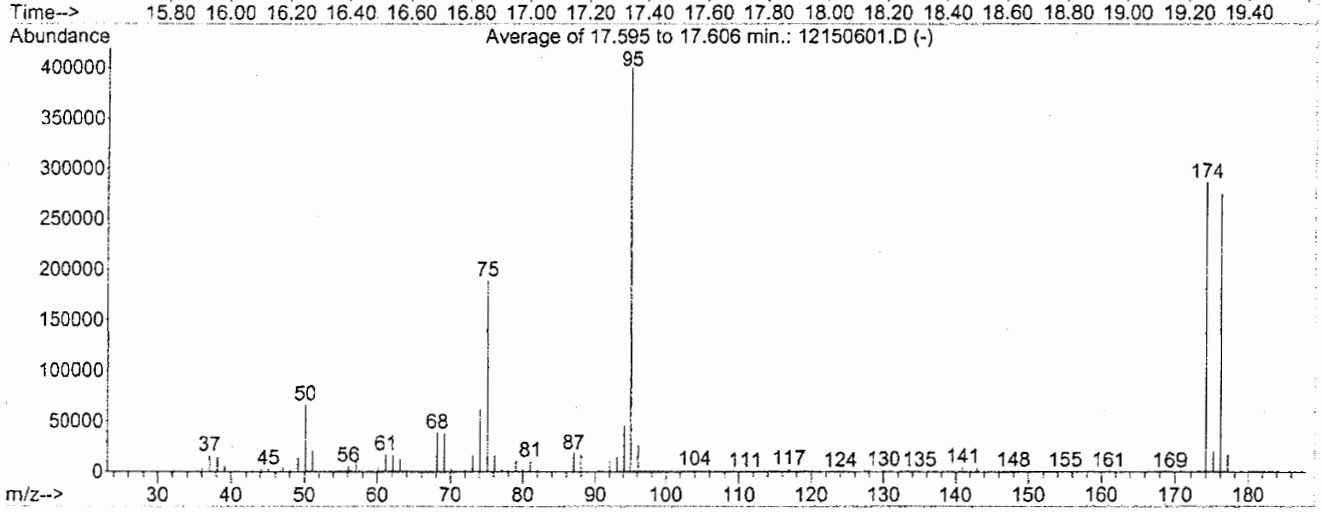
Data Path : J:\MS08\Data\2006_012\15\
Data File : 12150601.D
Acq On : 15 Dec 2006 9:03
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.5	66098	PASS
75	95	30	66	47.2	188586	PASS
95	95	100	100	100.0	399829	PASS
96	95	5	9	6.4	25490	PASS
173	174	0.00	2	0.2	638	PASS
174	95	50	120	71.5	285888	PASS
175	174	4	9	7.0	20090	PASS
176	174	93	101	96.0	274538	PASS
177	176	5	9	6.6	18069	PASS

LM 12/18/06

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\15\
Data File : 12150601.D
Acq On : 15 Dec 2006 9:03
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 15 09:49:02 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	89	0.01
2	T	Propene	1.223	0.944	22.8	82	0.01
3	T	Dichlorodifluoromethane	2.559	2.192	14.3	83	0.02
4	T	Chloromethane	2.080	1.752	15.8	81	0.01
5	T	Freon 114	0.675	0.604	10.5	89	0.02
6	T	Vinyl Chloride	1.418	1.114	21.4	80	0.01
7	T	1,3-Butadiene	1.375	1.134	17.5	83	0.02
8	T	Bromomethane	1.051	0.886	15.7	85	0.02
9	T	Chloroethane	0.974	0.808	17.0	82	0.02
10	T	Ethanol	0.753	0.796	-5.7	78	0.02
11	T	Acetonitrile	2.237	2.112	5.6	79	0.02
12	T	Acrolein	0.731	0.645	11.8	81	0.02
13	T	Acetone	1.046	0.759	27.4	82	0.02
14	T	Trichlorofluoromethane	1.741	1.540	11.5	83	0.02
15	T	Isopropanol	3.201	2.964	7.4	79	0.02
16	T	Acrylonitrile	1.580	1.464	7.3	80	0.02
17	T	1,1-Dichloroethene	1.172	1.049	10.5	83	0.01
18	T	tert-Butanol	2.959	2.634	11.0	82	0.02
19	T	Methylene Chloride	1.345	1.150	14.5	83	0.02
20	T	Allyl Chloride	1.722	1.518	11.8	78	0.01
21	T	Trichlorotrifluoroethane	0.683	0.533	22.0	90	0.01
22	T	Carbon Disulfide	4.831	4.107	15.0	83	0.01
23	T	trans-1,2-Dichloroethene	1.881	1.586	15.7	79	0.01
24	T	1,1-Dichloroethane	1.910	1.634	14.5	79	0.02
25	T	Methyl tert-Butyl Ether	3.036	2.538	16.4	87	0.00
26	T	Vinyl Acetate	0.253	0.232	8.3	86	0.01
27	T	2-Butanone	0.805	0.711	11.7	84	0.02
28	T	cis-1,2-Dichloroethene	1.761	1.490	15.4	78	0.01
29	T	Diisopropyl Ether	0.832	0.727	12.6	87	0.01
30	T	Ethyl Acetate	0.404	0.339	16.1	82	0.01
31	T	n-Hexane	1.584	1.243	21.5	85	0.01
32	T	Chloroform	1.869	1.629	12.8	83	0.01
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.741	7.2	84	0.01
34	T	Tetrahydrofuran	0.759	0.663	12.6	85	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.102	12.6	87	0.00
36	T	1,2-Dichloroethane	1.709	1.411	17.4	78	0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	90	0.00
38	T	1,1,1-Trichloroethane	0.411	0.354	13.9	82	0.00
39	T	Isopropyl Acetate	0.169	0.150	11.2	81	0.00
40	T	1-Butanol	0.202	0.243	-20.3	79	0.00
41	T	Benzene	1.053	0.898	14.7	83	0.00
42	T	Carbon Tetrachloride	0.336	0.299	11.0	82	0.00
43	T	Cyclohexane	0.367	0.315	14.2	86	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.641	12.0	83	0.00
45	T	1,2-Dichloropropane	0.268	0.231	13.8	80	0.00
46	T	Bromodichloromethane	0.361	0.326	9.7	80	0.00
47	T	Trichloroethene	0.238	0.218	8.4	85	0.00
48	T	1,4-Dioxane	0.207	0.195	5.8	83	0.00
49	T	Isooctane	0.987	0.826	16.3	81	0.00
50	T	Methyl Methacrylate	0.102	0.099	2.9	85	0.00
51	T	n-Heptane	0.256	0.218	14.8	81	0.00

1-4 17 18/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\15\
Data File : 12150601.D
Acq On : 15 Dec 2006 9:03
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 15 09:49:02 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.402	11.6	80	0.00
53	T	4-Methyl-2-pentanone	0.246	0.222	9.8	80	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.372	12.3	77	0.00
55	T	1,1,2-Trichloroethane	0.261	0.235	10.0	82	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	87	0.00
57	S	Toluene-d8 (SS2)	2.035	1.995	2.0	86	0.00
58	T	Toluene	2.041	1.819	10.9	81	0.00
59	T	2-Hexanone	1.166	1.038	11.0	76	0.00
60	T	Dibromochloromethane	0.515	0.479	7.0	80	0.00
61	T	1,2-Dibromoethane	0.549	0.510	7.1	80	0.00
62	T	Butyl Acetate	1.288	1.152	10.6	76	0.00
63	T	n-Octane	0.422	0.374	11.4	80	0.00
64	T	Tetrachloroethene	0.450	0.412	8.4	83	0.00
65	T	Chlorobenzene	1.315	1.188	9.7	80	0.00
66	T	Ethylbenzene	2.390	2.171	9.2	80	0.00
67	T	m- & p-Xylene	1.538	1.399	9.0	80	0.00
68	T	Bromoform	0.319	0.313	1.9	81	0.00
69	T	Styrene	1.387	1.330	4.1	81	0.00
70	T	o-Xylene	1.663	1.514	9.0	79	0.00
71	T	n-Nonane	1.028	0.886	13.8	75	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.733	7.7	79	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.666	-11.6	97	0.00
74	T	Cumene	2.142	1.980	7.6	81	0.00
75	T	alpha-Pinene	1.139	1.035	9.1	80	0.00
76	T	n-Propylbenzene	2.877	2.650	7.9	79	0.00
77	T	3-Ethyltoluene	2.349	2.211	5.9	81	0.00
78	T	4-Ethyltoluene	2.172	1.997	8.1	80	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.788	6.5	81	0.00
80	T	alpha-Methylstyrene	1.020	0.994	2.5	81	0.00
81	T	2-Ethyltoluene	2.366	2.206	6.8	80	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.775	6.6	81	0.00
83	T	n-Decane	1.108	0.981	11.5	77	0.00
84	T	Benzyl Chloride	1.805	1.721	4.7	78	0.00
85	T	1,3-Dichlorobenzene	1.007	0.962	4.5	84	0.00
86	T	1,4-Dichlorobenzene	0.977	0.930	4.8	82	0.00
87	T	sec-Butylbenzene	2.519	2.359	6.4	81	0.00
88	T	p-Isopropyltoluene	2.033	1.906	6.2	81	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.748	5.7	82	0.00
90	T	1,2-Dichlorobenzene	0.939	0.897	4.5	83	0.00
91	T	d-Limonene	0.792	0.748	5.6	79	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.334	-6.7	85	0.00
93	T	n-Undecane	1.035	0.941	9.1	82	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.200	-7.0	95	0.00
95	T	Naphthalene	2.210	2.434	-10.1	93	0.00
96	T	n-Dodecane	0.745	0.728	2.3	93	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.322	-6.3	94	0.00

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

LM 12/18/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\15\
Data File : 12150605.D
Acq On : 15 Dec 2006 12:50
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12050601/S15-12050605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 10:05:50 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	88	-0.01
2	T	Propene	1.223	1.403	-14.7	83	0.02
3	T	Dichlorodifluoromethane	2.559	2.679	-4.7	80	0.01
4	T	Chloromethane	2.080	2.029	2.5	78	0.00
5	T	Freon 114	0.675	0.875	-29.6	95	0.02
6	T	Vinyl Chloride	1.418	1.671	-17.8	82	0.00
7	T	1,3-Butadiene	1.375	1.427	-3.8	79	0.01
8	T	Bromomethane	1.051	1.082	-2.9	80	0.01
9	T	Chloroethane	0.974	0.980	-0.6	79	0.00
10	T	Ethanol	0.753	0.537	28.7	83	-0.02
11	T	Acetonitrile	2.237	1.855	17.1	77	0.00
12	T	Acrolein	0.731	0.644	11.9	79	0.02
13	T	Acetone	1.046	1.189	-13.7	91	0.00
14	T	Trichlorofluoromethane	1.741	1.809	-3.9	85	0.00
15	T	Isopropanol	3.201	3.208	-0.2	80	-0.01
16	T	Acrylonitrile	1.580	1.347	14.7	81	0.00
17	T	1,1-Dichloroethene	1.172	1.135	3.2	78	0.00
18	T	tert-Butanol	2.959	3.060	-3.4	76	0.00
19	T	Methylene Chloride	1.345	1.367	-1.6	83	0.00
20	T	Allyl Chloride	1.722	1.417	17.7	73	0.00
21	T	Trichlorotrifluoroethane	0.683	0.778	-13.9	88	0.00
22	T	Carbon Disulfide	4.831	4.864	-0.7	79	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.679	10.7	75	0.00
24	T	1,1-Dichloroethane	1.910	1.921	-0.6	84	0.00
25	T	Methyl tert-Butyl Ether	3.036	3.097	-2.0	77	0.00
26	T	Vinyl Acetate	0.253	0.254	-0.4	76	0.00
27	T	2-Butanone	0.805	0.804	0.1	85	0.00
28	T	cis-1,2-Dichloroethene	1.761	1.602	9.0	76	-0.01
29	T	Diisopropyl Ether	0.832	0.923	-10.9	84	0.00
30	T	Ethyl Acetate	0.404	0.386	4.5	77	0.00
31	T	n-Hexane	1.584	1.770	-11.7	83	0.00
32	T	Chloroform	1.869	1.954	-4.5	81	-0.01
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.813	3.4	81	0.00
34	T	Tetrahydrofuran	0.759	0.728	4.1	79	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.346	-6.7	83	0.00
36	T	1,2-Dichloroethane	1.709	1.589	7.0	77	-0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	89	0.00
38	T	1,1,1-Trichloroethane	0.411	0.386	6.1	79	-0.01
39	T	Isopropyl Acetate	0.169	0.153	9.5	77	0.00
40	T	1-Butanol	0.202	0.143	29.2	94	0.01
41	T	Benzene	1.053	1.014	3.7	77	0.00
42	T	Carbon Tetrachloride	0.336	0.312	7.1	82	0.00
43	T	Cyclohexane	0.367	0.382	-4.1	84	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.704	3.3	80	0.00
45	T	1,2-Dichloropropane	0.268	0.250	6.7	81	0.00
46	T	Bromodichloromethane	0.361	0.327	9.4	80	0.00
47	T	Trichloroethene	0.238	0.246	-3.4	90	0.00
48	T	1,4-Dioxane	0.207	0.189	8.7	82	0.00
49	T	Isooctane	0.987	0.967	2.0	80	0.00
50	T	Methyl Methacrylate	0.102	0.095	6.9	84	0.00
51	T	n-Heptane	0.256	0.253	1.2	83	0.00

LM 12/27/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\15\
Data File : 12150605.D
Acq On : 15 Dec 2006 12:50
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12050601/S15-12050605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 10:05:50 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.413	9.2	79	0.00
53	T	4-Methyl-2-pentanone	0.246	0.227	7.7	80	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.369	13.0	77	0.00
55	T	1,1,2-Trichloroethane	0.261	0.237	9.2	80	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	87	0.00
57	S	Toluene-d8 (SS2)	2.035	2.037	-0.1	86	0.00
58	T	Toluene	2.041	2.073	-1.6	81	0.00
59	T	2-Hexanone	1.166	1.019	12.6	75	0.00
60	T	Dibromochloromethane	0.515	0.489	5.0	82	0.00
61	T	1,2-Dibromoethane	0.549	0.545	0.7	83	0.00
62	T	Butyl Acetate	1.288	1.122	12.9	75	0.00
63	T	n-Octane	0.422	0.413	2.1	79	0.00
64	T	Tetrachloroethene	0.450	0.466	-3.6	83	0.00
65	T	Chlorobenzene	1.315	1.322	-0.5	81	0.00
66	T	Ethylbenzene	2.390	2.350	1.7	80	0.00
67	T	m- & p-Xylene	1.538	1.521	1.1	79	0.00
68	T	Bromoform	0.319	0.296	7.2	83	0.00
69	T	Styrene	1.387	1.306	5.8	80	0.00
70	T	o-Xylene	1.663	1.662	0.1	81	0.00
71	T	n-Nonane	1.028	0.962	6.4	76	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.759	4.4	81	-0.01
73	S	Bromofluorobenzene (SS3)	0.597	0.661	-10.7	96	0.00
74	T	Cumene	2.142	2.202	-2.8	84	0.00
75	T	alpha-Pinene	1.139	1.096	3.8	78	0.00
76	T	n-Propylbenzene	2.877	2.867	0.3	81	0.00
77	T	3-Ethyltoluene	2.349	2.330	0.8	83	0.00
78	T	4-Ethyltoluene	2.172	2.191	-0.9	81	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.899	0.7	80	0.00
80	T	alpha-Methylstyrene	1.020	0.937	8.1	80	0.00
81	T	2-Ethyltoluene	2.366	2.398	-1.4	82	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.915	-0.8	83	0.00
83	T	n-Decane	1.108	1.038	6.3	77	0.00
84	T	Benzyl Chloride	1.805	1.647	8.8	79	0.00
85	T	1,3-Dichlorobenzene	1.007	1.024	-1.7	83	0.00
86	T	1,4-Dichlorobenzene	0.977	0.989	-1.2	83	0.00
87	T	sec-Butylbenzene	2.519	2.535	-0.6	81	0.00
88	T	p-Isopropyltoluene	2.033	2.011	1.1	80	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.839	0.8	81	0.00
90	T	1,2-Dichlorobenzene	0.939	0.961	-2.3	84	0.00
91	T	d-Limonene	0.792	0.693	12.5	75	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.281	10.2	85	0.00
93	T	n-Undecane	1.035	0.916	11.5	71	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.171	8.6	76	0.00
95	T	Naphthalene	2.210	2.083	5.7	82	0.00
96	T	n-Dodecane	0.745	0.756	-1.5	79	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.318	-5.0	89	0.00

LM 12/27/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\15\
Data File : 12150617.D
Acq On : 15 Dec 2006 21:56
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15/12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 10:08:52 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	82	0.00
2	T	Propene	1.223	0.959	21.6	76	0.00
3	T	Dichlorodifluoromethane	2.559	2.173	15.1	75	0.00
4	T	Chloromethane	2.080	1.789	14.0	75	0.00
5	T	Freon 114	0.675	0.565	16.3	76	0.00
6	T	Vinyl Chloride	1.418	1.315	7.3	86	0.00
7	T	1,3-Butadiene	1.375	1.145	16.7	76	0.00
8	T	Bromomethane	1.051	0.894	14.9	78	0.00
9	T	Chloroethane	0.974	0.822	15.6	76	0.00
10	T	Ethanol	0.753	0.791	-5.0	70	0.01
11	T	Acetonitrile	2.237	2.136	4.5	73	0.00
12	T	Acrolein	0.731	0.637	12.9	73	0.01
13	T	Acetone	1.046	0.767	26.7	76	0.00
14	T	Trichlorofluoromethane	1.741	1.531	12.1	75	0.00
15	T	Isopropanol	3.201	2.977	7.0	72	0.00
16	T	Acrylonitrile	1.580	1.468	7.1	73	0.00
17	T	1,1-Dichloroethene	1.172	1.042	11.1	75	0.00
18	T	tert-Butanol	2.959	2.453	17.1	69	0.00
19	T	Methylene Chloride	1.345	1.152	14.3	76	0.00
20	T	Allyl Chloride	1.722	1.527	11.3	71	0.00
21	T	Trichlorotrifluoroethane	0.683	0.545	20.2	84	0.00
22	T	Carbon Disulfide	4.831	4.168	13.7	77	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.615	14.1	73	0.00
24	T	1,1-Dichloroethane	1.910	1.666	12.8	73	0.01
25	T	Methyl tert-Butyl Ether	3.036	2.495	17.8	78	0.00
26	T	Vinyl Acetate	0.253	0.231	8.7	78	0.00
27	T	2-Butanone	0.805	0.720	10.6	77	0.01
28	T	cis-1,2-Dichloroethene	1.761	1.513	14.1	73	0.00
29	T	Diisopropyl Ether	0.832	0.742	10.8	81	0.00
30	T	Ethyl Acetate	0.404	0.349	13.6	77	0.00
31	T	n-Hexane	1.584	1.297	18.1	81	0.00
32	T	Chloroform	1.869	1.638	12.4	76	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.805	3.8	79	0.00
34	T	Tetrahydrofuran	0.759	0.679	10.5	79	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.107	12.2	80	0.00
36	T	1,2-Dichloroethane	1.709	1.475	13.7	74	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	84	0.00
38	T	1,1,1-Trichloroethane	0.411	0.358	12.9	77	0.00
39	T	Isopropyl Acetate	0.169	0.153	9.5	77	0.00
40	T	1-Butanol	0.202	0.242	-19.8	73	0.00
41	T	Benzene	1.053	0.910	13.6	79	0.00
42	T	Carbon Tetrachloride	0.336	0.307	8.6	78	0.00
43	T	Cyclohexane	0.367	0.319	13.1	81	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.645	11.4	77	0.00
45	T	1,2-Dichloropropane	0.268	0.237	11.6	77	0.00
46	T	Bromodichloromethane	0.361	0.334	7.5	77	0.00
47	T	Trichloroethene	0.238	0.219	8.0	80	0.00
48	T	1,4-Dioxane	0.207	0.196	5.3	77	0.00
49	T	Isooctane	0.987	0.848	14.1	77	0.00
50	T	Methyl Methacrylate	0.102	0.099	2.9	79	0.00
51	T	n-Heptane	0.256	0.221	13.7	77	0.00

LM 12/27/06

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\15\
Data File : 12150617.D
Acq On : 15 Dec 2006 21:56
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15/12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 10:08:52 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.410	9.9	76	0.00
53	T	4-Methyl-2-pentanone	0.246	0.226	8.1	75	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.384	9.4	75	0.00
55	T	1,1,2-Trichloroethane	0.261	0.237	9.2	77	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	82	0.00
57	S	Toluene-d8 (SS2)	2.035	2.010	1.2	82	0.00
58	T	Toluene	2.041	1.821	10.8	76	0.00
59	T	2-Hexanone	1.166	1.056	9.4	73	0.00
60	T	Dibromochloromethane	0.515	0.482	6.4	76	0.00
61	T	1,2-Dibromoethane	0.549	0.511	6.9	76	0.00
62	T	Butyl Acetate	1.288	1.175	8.8	73	0.00
63	T	n-Octane	0.422	0.376	10.9	75	0.00
64	T	Tetrachloroethene	0.450	0.412	8.4	78	0.00
65	T	Chlorobenzene	1.315	1.196	9.0	76	0.00
66	T	Ethylbenzene	2.390	2.181	8.7	75	0.00
67	T	m- & p-Xylene	1.538	1.410	8.3	76	0.00
68	T	Bromoform	0.319	0.314	1.6	77	0.00
69	T	Styrene	1.387	1.327	4.3	76	0.00
70	T	o-Xylene	1.663	1.530	8.0	75	0.00
71	T	n-Nonane	1.028	0.907	11.8	72	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.741	6.7	75	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.636	-6.5	87	0.00
74	T	Cumene	2.142	1.978	7.7	76	0.00
75	T	alpha-Pinene	1.139	1.043	8.4	76	0.00
76	T	n-Propylbenzene	2.877	2.671	7.2	75	0.00
77	T	3-Ethyltoluene	2.349	2.167	7.7	75	0.00
78	T	4-Ethyltoluene	2.172	2.035	6.3	76	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.780	7.0	76	0.00
80	T	alpha-Methylstyrene	1.020	0.986	3.3	76	0.00
81	T	2-Ethyltoluene	2.366	2.203	6.9	76	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.769	6.9	76	0.00
83	T	n-Decane	1.108	0.990	10.6	73	0.00
84	T	Benzyl Chloride	1.805	1.722	4.6	74	0.00
85	T	1,3-Dichlorobenzene	1.007	0.945	6.2	77	0.00
86	T	1,4-Dichlorobenzene	0.977	0.923	5.5	77	0.00
87	T	sec-Butylbenzene	2.519	2.356	6.5	76	0.00
88	T	p-Isopropyltoluene	2.033	1.916	5.8	77	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.725	7.0	76	0.00
90	T	1,2-Dichlorobenzene	0.939	0.881	6.2	77	0.00
91	T	d-Limonene	0.792	0.752	5.1	74	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.326	-4.2	78	0.00
93	T	n-Undecane	1.035	0.898	13.2	74	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.181	3.2	80	0.00
95	T	Naphthalene	2.210	2.228	-0.8	80	0.00
96	T	n-Dodecane	0.745	0.654	12.2	78	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.301	0.7	83	0.00

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

CM 12/27/06

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603406

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: 12150601.D
Date Analyzed: 12/15/06
Time Analyzed: 09:03

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	384744	9.07	1677343	11.00	892333	15.82
	Upper Limit	538642	9.40	2348280	11.33	1249266	16.15
	Lower Limit	230846	8.74	1006406	10.67	535400	15.49
	Client Sample ID						
01	Method Blank	366230	9.04	1815597	10.98	921538	15.81
02	Lab Control Sample	375473	9.06	1700177	11.00	884111	15.82
03	Duplicate Lab Control Sample	384170	9.07	1732528	11.00	905907	15.82
04	WDI-IBM-24-12-10-06	350964	9.04	1708773	10.98	880568	15.81
05	WDI-IBM-24-12-10-06 (Lab Duplicate)	348385	9.04	1678981	10.98	876641	15.82
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

Data not evaluated

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

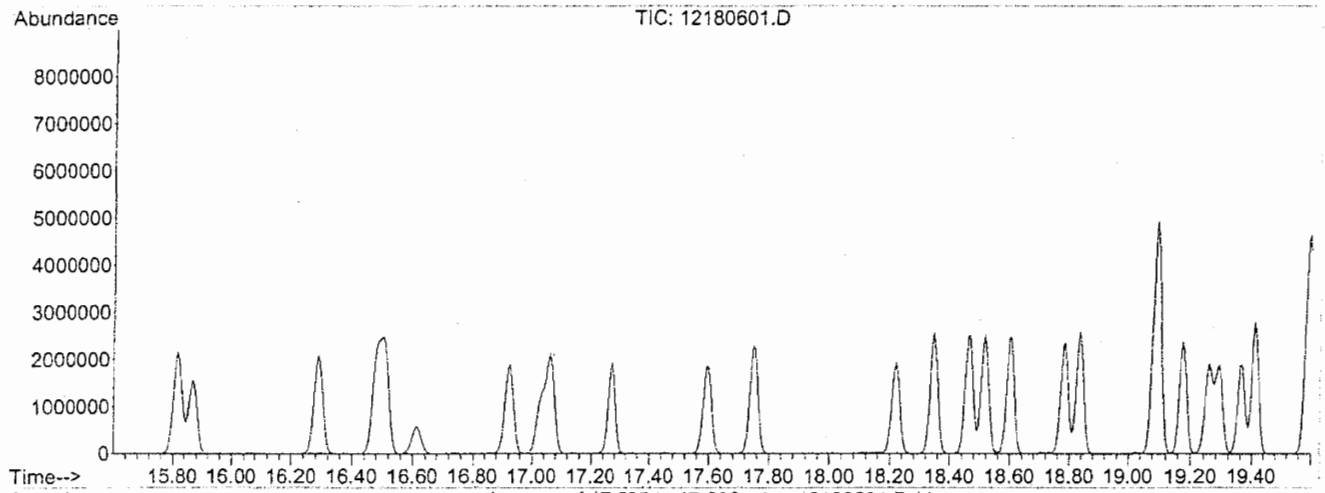
Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

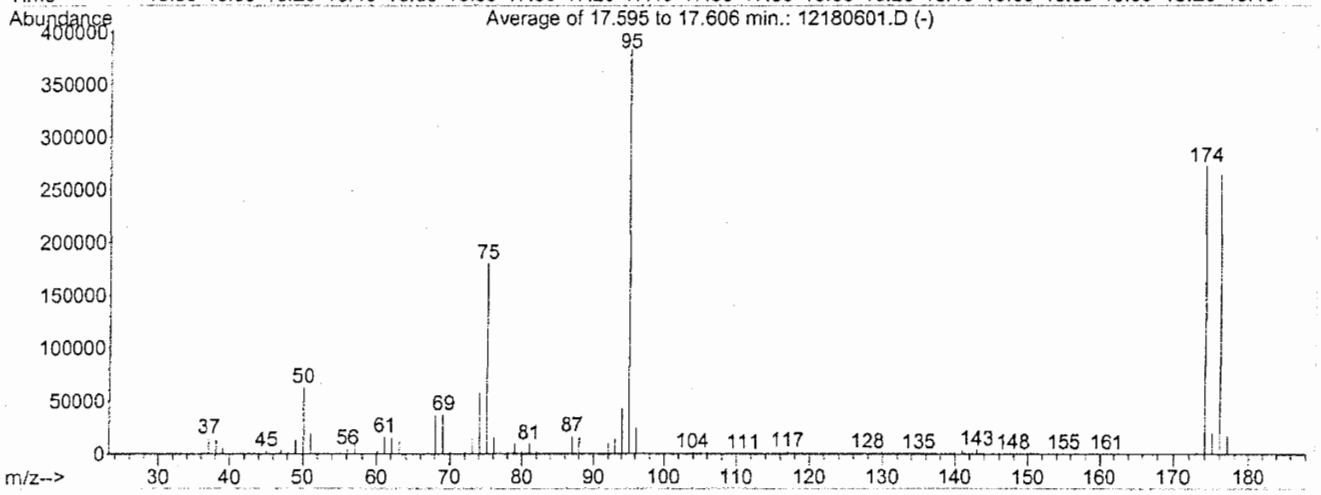
Verified by: RG Date: 12/28/06

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180601.D
Acq On : 18 Dec 2006 7:08
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.4	62930	PASS
75	95	30	66	47.0	180074	PASS
95	95	100	100	100.0	383104	PASS
96	95	5	9	6.5	24768	PASS
173	174	0.00	2	0.3	733	PASS
174	95	50	120	71.1	272405	PASS
175	174	4	9	7.3	19760	PASS
176	174	93	101	97.1	264512	PASS
177	176	5	9	6.5	17156	PASS

LM 12/18/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180601.D
Acq On : 18 Dec 2006 7:08
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

all OK for Targets ✓

Quant Time: Dec 18 07:34:48 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	89	0.01
2	T	Propene	1.223	1.008	17.6	87	0.00
3	T	Dichlorodifluoromethane	2.559	2.257	11.8	85	0.01
4	T	Chloromethane	2.080	1.830	12.0	85	0.01
5	T	Freon 114	0.675	0.640	5.2	94	0.01
6	T	Vinyl Chloride	1.418	1.129	20.4	81	0.01
7	T	1,3-Butadiene	1.375	1.163	15.4	85	0.02
8	T	Bromomethane	1.051	0.919	12.6	88	0.02
9	T	Chloroethane	0.974	0.824	15.4	84	0.02
10	T	Ethanol	0.753	0.816	-8.4	79	0.03
11	T	Acetonitrile	2.237	2.169	3.0	81	0.03
12	T	Acrolein	0.731	0.650	11.1	81	0.02
13	T	Acetone	1.046	0.771	26.3	84	0.02
14	T	Trichlorofluoromethane	1.741	1.583	9.1	85	0.01
15	T	Isopropanol	3.201	3.010	6.0	80	0.03
16	T	Acrylonitrile	1.580	1.475	6.6	81	0.02
17	T	1,1-Dichloroethene	1.172	1.057	9.8	84	0.01
18	T	tert-Butanol	2.959	2.598	12.2	80	0.03
19	T	Methylene Chloride	1.345	1.154	14.2	83	0.02
20	T	Allyl Chloride	1.722	1.545	10.3	79	0.01
21	T	Trichlorotrifluoroethane	0.683	0.554	18.9	94	0.01
22	T	Carbon Disulfide	4.831	4.142	14.3	84	0.01
23	T	trans-1,2-Dichloroethene	1.881	1.611	14.4	80	0.01
24	T	1,1-Dichloroethane	1.910	1.666	12.8	80	0.02
25	T	Methyl tert-Butyl Ether	3.036	2.546	16.1	87	0.01
26	T	Vinyl Acetate	0.253	0.238	5.9	88	0.01
27	T	2-Butanone	0.805	0.710	11.8	83	0.02
28	T	cis-1,2-Dichloroethene	1.761	1.505	14.5	79	0.01
29	T	Diisopropyl Ether	0.832	0.740	11.1	88	0.01
30	T	Ethyl Acetate	0.404	0.340	15.8	82	0.02
31	T	n-Hexane	1.584	1.286	18.8	88	0.00
32	T	Chloroform	1.869	1.654	11.5	84	0.01
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.795	4.4	86	0.01
34	T	Tetrahydrofuran	0.759	0.661	12.9	85	0.01
35	T	Ethyl tert-Butyl Ether	1.261	1.101	12.7	87	0.00
36	T	1,2-Dichloroethane	1.709	1.431	16.3	79	0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	90	0.00
38	T	1,1,1-Trichloroethane	0.411	0.361	12.2	84	0.00
39	T	Isopropyl Acetate	0.169	0.152	10.1	82	0.00
40	T	1-Butanol	0.202	0.243	-20.3	79	0.00
41	T	Benzene	1.053	0.903	14.2	84	0.00
42	T	Carbon Tetrachloride	0.336	0.307	8.6	84	0.00
43	T	Cyclohexane	0.367	0.318	13.4	87	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.642	11.8	83	0.00
45	T	1,2-Dichloropropane	0.268	0.233	13.1	80	0.00
46	T	Bromodichloromethane	0.361	0.336	6.9	83	0.00
47	T	Trichloroethene	0.238	0.218	8.4	85	0.00
48	T	1,4-Dioxane	0.207	0.195	5.8	82	0.00
49	T	Isooctane	0.987	0.835	15.4	81	0.00
50	T	Methyl Methacrylate	0.102	0.097	4.9	83	0.00
51	T	n-Heptane	0.256	0.219	14.5	82	0.00

LM 12/18/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180601.D
Acq On : 18 Dec 2006 7:08
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 07:34:48 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.403	11.4	80	0.00
53	T	4-Methyl-2-pentanone	0.246	0.221	10.2	79	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.376	11.3	78	0.00
55	T	1,1,2-Trichloroethane	0.261	0.234	10.3	81	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	88	0.00
57	S	Toluene-d8 (SS2)	2.035	1.993	2.1	86	0.00
58	T	Toluene	2.041	1.803	11.7	81	0.00
59	T	2-Hexanone	1.166	1.043	10.5	76	0.00
60	T	Dibromochloromethane	0.515	0.482	6.4	81	0.00
61	T	1,2-Dibromoethane	0.549	0.508	7.5	80	0.00
62	T	Butyl Acetate	1.288	1.161	9.9	76	0.00
63	T	n-Octane	0.422	0.376	10.9	80	0.00
64	T	Tetrachloroethene	0.450	0.409	9.1	83	0.00
65	T	Chlorobenzene	1.315	1.182	10.1	80	0.00
66	T	Ethylbenzene	2.390	2.154	9.9	79	0.00
67	T	m- & p-Xylene	1.538	1.400	9.0	80	0.00
68	T	Bromoform	0.319	0.314	1.6	82	0.00
69	T	Styrene	1.387	1.318	5.0	81	0.00
70	T	o-Xylene	1.663	1.522	8.5	80	0.00
71	T	n-Nonane	1.028	0.889	13.5	75	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.730	8.1	79	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.647	-8.4	94	0.00
74	T	Cumene	2.142	1.962	8.4	80	0.00
75	T	alpha-Pinene	1.139	1.033	9.3	80	0.00
76	T	n-Propylbenzene	2.877	2.652	7.8	80	0.00
77	T	3-Ethyltoluene	2.349	2.158	8.1	79	0.00
78	T	4-Ethyltoluene	2.172	2.049	5.7	82	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.772	7.4	80	0.00
80	T	alpha-Methylstyrene	1.020	0.982	3.7	80	0.00
81	T	2-Ethyltoluene	2.366	2.196	7.2	80	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.781	6.3	81	0.00
83	T	n-Decane	1.108	0.982	11.4	77	0.00
84	T	Benzyl Chloride	1.805	1.717	4.9	78	0.00
85	T	1,3-Dichlorobenzene	1.007	0.952	5.5	83	0.00
86	T	1,4-Dichlorobenzene	0.977	0.919	5.9	82	0.00
87	T	sec-Butylbenzene	2.519	2.337	7.2	81	0.00
88	T	p-Isopropyltoluene	2.033	1.905	6.3	81	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.725	7.0	81	0.00
90	T	1,2-Dichlorobenzene	0.939	0.886	5.6	83	0.00
91	T	d-Limonene	0.792	0.743	6.2	78	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.323	-3.2	83	0.00
93	T	n-Undecane	1.035	0.901	12.9	79	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.189	-1.1	89	0.00
95	T	Naphthalene	2.210	2.281	-3.2	88	0.00
96	T	n-Dodecane	0.745	0.671	9.9	85	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.302	0.3	89	0.00

LM 12/18/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180605.D
Acq On : 18 Dec 2006 11:30
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12050601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 17:12:52 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
Response via : Initial Calibration

All OK for targets

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	87	-0.01	
2	T	Propene	1.223	1.481	-21.1	86	0.01	
3	T	Dichlorodifluoromethane	2.559	2.781	-8.7	82	0.01	
4	T	Chloromethane	2.080	2.088	-0.4	80	0.00	
5	T	Freon 114	0.675	0.956	-41.6#	103	0.02	NTC
6	T	Vinyl Chloride	1.418	1.593	-12.3	78	0.00	
7	T	1,3-Butadiene	1.375	1.483	-7.9	82	0.00	
8	T	Bromomethane	1.051	1.128	-7.3	83	0.01	
9	T	Chloroethane	0.974	1.030	-5.7	82	0.00	
10	T	Ethanol	0.753	0.600	20.3	92	-0.01	
11	T	Acetonitrile	2.237	1.924	14.0	80	0.01	
12	T	Acrolein	0.731	0.680	7.0	83	0.01	
13	T	Acetone	1.046	1.332	-27.3	101	0.00	
14	T	Trichlorofluoromethane	1.741	1.860	-6.8	87	0.00	
15	T	Isopropanol	3.201	3.291	-2.8	82	0.00	
16	T	Acrylonitrile	1.580	1.403	11.2	83	0.00	
17	T	1,1-Dichloroethene	1.172	1.170	0.2	80	0.00	
18	T	tert-Butanol	2.959	3.235	-9.3	80	0.00	
19	T	Methylene Chloride	1.345	1.371	-1.9	82	0.00	
20	T	Allyl Chloride	1.722	1.451	15.7	74	0.00	
21	T	Trichlorotrifluoroethane	0.683	0.857	-25.5	96	0.00	
22	T	Carbon Disulfide	4.831	4.926	-2.0	80	0.00	
23	T	trans-1,2-Dichloroethene	1.881	1.840	2.2	82	-0.01	
24	T	1,1-Dichloroethane	1.910	2.029	-6.2	88	-0.01	
25	T	Methyl tert-Butyl Ether	3.036	3.255	-7.2	80	0.00	
26	T	Vinyl Acetate	0.253	0.286	-13.0	85	0.00	
27	T	2-Butanone	0.805	0.823	-2.2	87	0.00	
28	T	cis-1,2-Dichloroethene	1.761	1.635	7.2	77	-0.02	
29	T	Diisopropyl Ether	0.832	0.968	-16.3	88	0.00	
30	T	Ethyl Acetate	0.404	0.400	1.0	79	0.00	
31	T	n-Hexane	1.584	1.901	-20.0	88	0.00	
32	T	Chloroform	1.869	1.964	-5.1	80	-0.02	
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.860	0.9	83	-0.01	
34	T	Tetrahydrofuran	0.759	0.732	3.6	79	0.00	
35	T	Ethyl tert-Butyl Ether	1.261	1.378	-9.3	84	0.00	
36	T	1,2-Dichloroethane	1.709	1.614	5.6	78	-0.01	
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	89	0.00	
38	T	1,1,1-Trichloroethane	0.411	0.405	1.5	83	-0.01	
39	T	Isopropyl Acetate	0.169	0.164	3.0	83	0.00	
40	T	1-Butanol	0.202	0.137	32.2#	90	0.01	NTC
41	T	Benzene	1.053	1.045	0.8	80	0.00	
42	T	Carbon Tetrachloride	0.336	0.329	2.1	87	-0.01	
43	T	Cyclohexane	0.367	0.401	-9.3	88	-0.02	
44	T	tert-Amyl Methyl Ether	0.728	0.719	1.2	82	0.00	
45	T	1,2-Dichloropropane	0.268	0.251	6.3	81	-0.02	
46	T	Bromodichloromethane	0.361	0.334	7.5	82	-0.01	
47	T	Trichloroethene	0.238	0.242	-1.7	88	0.00	
48	T	1,4-Dioxane	0.207	0.188	9.2	82	0.00	
49	T	Isooctane	0.987	1.012	-2.5	84	0.00	
50	T	Methyl Methacrylate	0.102	0.094	7.8	84	0.00	
51	T	n-Heptane	0.256	0.263	-2.7	86	0.00	

LM 12/18/06

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Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180605.D
Acq On : 18 Dec 2006 11:30
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12050601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 17:12:52 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.417	8.4	79	0.00
53	T	4-Methyl-2-pentanone	0.246	0.222	9.8	79	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.370	12.7	77	0.00
55	T	1,1,2-Trichloroethane	0.261	0.239	8.4	81	-0.02
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	87	0.00
57	S	Toluene-d8 (SS2)	2.035	2.028	0.3	86	-0.01
58	T	Toluene	2.041	2.058	-0.8	81	0.00
59	T	2-Hexanone	1.166	1.041	10.7	77	0.00
60	T	Dibromochloromethane	0.515	0.499	3.1	84	-0.01
61	T	1,2-Dibromoethane	0.549	0.544	0.9	83	0.00
62	T	Butyl Acetate	1.288	1.131	12.2	75	0.00
63	T	n-Octane	0.422	0.412	2.4	79	0.00
64	T	Tetrachloroethene	0.450	0.461	-2.4	82	0.00
65	T	Chlorobenzene	1.315	1.299	1.2	80	-0.01
66	T	Ethylbenzene	2.390	2.351	1.6	80	-0.01
67	T	m- & p-Xylene	1.538	1.513	1.6	79	-0.03
68	T	Bromoform	0.319	0.297	6.9	83	0.00
69	T	Styrene	1.387	1.303	6.1	80	0.00
70	T	o-Xylene	1.663	1.642	1.3	81	-0.01
71	T	n-Nonane	1.028	0.941	8.5	74	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.760	4.3	81	-0.01
73	S	Bromofluorobenzene (SS3)	0.597	0.650	-8.9	94	0.00
74	T	Cumene	2.142	2.181	-1.8	83	0.00
75	T	alpha-Pinene	1.139	1.093	4.0	78	0.00
76	T	n-Propylbenzene	2.877	2.796	2.8	80	0.00
77	T	3-Ethyltoluene	2.349	2.295	2.3	82	0.00
78	T	4-Ethyltoluene	2.172	2.138	1.6	79	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.920	-0.4	81	0.00
80	T	alpha-Methylstyrene	1.020	0.901	11.7	78	0.00
81	T	2-Ethyltoluene	2.366	2.330	1.5	80	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.866	1.8	81	-0.01
83	T	n-Decane	1.108	1.037	6.4	77	0.00
84	T	Benzyl Chloride	1.805	1.610	10.8	78	0.00
85	T	1,3-Dichlorobenzene	1.007	0.985	2.2	80	-0.01
86	T	1,4-Dichlorobenzene	0.977	0.966	1.1	81	0.00
87	T	sec-Butylbenzene	2.519	2.478	1.6	79	0.00
88	T	p-Isopropyltoluene	2.033	1.974	2.9	79	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.819	1.9	81	0.00
90	T	1,2-Dichlorobenzene	0.939	0.926	1.4	81	0.00
91	T	d-Limonene	0.792	0.689	13.0	75	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.266	15.0	81	0.00
93	T	n-Undecane	1.035	0.945	8.7	73	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.166	11.2	74	0.00
95	T	Naphthalene	2.210	2.019	8.6	80	0.00
96	T	n-Dodecane	0.745	0.751	-0.8	79	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.289	4.6	81	0.00

LM 12/18/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180613.D
Acq On : 18 Dec 2006 18:48
Operator : LM
Sample : 25ng TO-15 CCV Std
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 12:59:56 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
Response via : Initial Calibration

all ok for targets

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	88	0.00
2	T	Propene	1.223	0.981	19.8	84	0.00
3	T	Dichlorodifluoromethane	2.559	2.262	11.6	84	0.00
4	T	Chloromethane	2.080	1.835	11.8	84	0.00
5	T	Freon 114	0.675	0.631	6.5	92	0.00
6	T	Vinyl Chloride	1.418	1.260	11.1	89	0.00
7	T	1,3-Butadiene	1.375	1.209	12.1	87	0.00
8	T	Bromomethane	1.051	0.944	10.2	89	0.00
9	T	Chloroethane	0.974	0.861	11.6	86	0.00
10	T	Ethanol	0.753	0.859	-14.1	82	0.02
11	T	Acetonitrile	2.237	2.253	-0.7	83	0.01
12	T	Acrolein	0.731	0.681	6.8	84	0.01
13	T	Acetone	1.046	0.814	22.2	87	0.00
14	T	Trichlorofluoromethane	1.741	1.617	7.1	86	0.00
15	T	Isopropanol	3.201	3.168	1.0	83	0.01
16	T	Acrylonitrile	1.580	1.550	1.9	83	0.01
17	T	1,1-Dichloroethene	1.172	1.095	6.6	86	0.00
18	T	tert-Butanol	2.959	2.698	8.8	82	0.01
19	T	Methylene Chloride	1.345	1.212	9.9	86	0.00
20	T	Allyl Chloride	1.722	1.620	5.9	82	0.00
21	T	Trichlorotrifluoroethane	0.683	0.563	17.6	94	0.00
22	T	Carbon Disulfide	4.831	4.327	10.4	86	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.678	10.8	82	0.00
24	T	1,1-Dichloroethane	1.910	1.753	8.2	83	0.00
25	T	Methyl tert-Butyl Ether	3.036	2.664	12.3	90	0.00
26	T	Vinyl Acetate	0.253	0.252	0.4	92	0.00
27	T	2-Butanone	0.805	0.757	6.0	88	0.00
28	T	cis-1,2-Dichloroethene	1.761	1.590	9.7	82	0.00
29	T	Diisopropyl Ether	0.832	0.771	7.3	90	0.00
30	T	Ethyl Acetate	0.404	0.363	10.1	86	0.00
31	T	n-Hexane	1.584	1.351	14.7	91	0.00
32	T	Chloroform	1.869	1.739	7.0	87	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.819	3.1	86	0.00
34	T	Tetrahydrofuran	0.759	0.701	7.6	88	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.165	7.6	90	0.00
36	T	1,2-Dichloroethane	1.709	1.526	10.7	83	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	90	0.00
38	T	1,1,1-Trichloroethane	0.411	0.373	9.2	87	0.00
39	T	Isopropyl Acetate	0.169	0.159	5.9	86	0.00
40	T	1-Butanol	0.202	0.256	-26.7	83	0.00
41	T	Benzene	1.053	0.936	11.1	87	0.00
42	T	Carbon Tetrachloride	0.336	0.316	6.0	87	0.00
43	T	Cyclohexane	0.367	0.329	10.4	90	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.674	7.4	87	0.00
45	T	1,2-Dichloropropane	0.268	0.244	9.0	85	0.00
46	T	Bromodichloromethane	0.361	0.343	5.0	84	0.00
47	T	Trichloroethene	0.238	0.228	4.2	89	0.00
48	T	1,4-Dioxane	0.207	0.203	1.9	86	0.00
49	T	Isooctane	0.987	0.872	11.7	85	0.00
50	T	Methyl Methacrylate	0.102	0.103	-1.0	88	0.00
51	T	n-Heptane	0.256	0.227	11.3	85	0.00

UM 12/21/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\18\
Data File : 12180613.D
Acq On : 18 Dec 2006 18:48
Operator : LM
Sample : 25ng TO-15 CCV Std
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 12:59:56 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.425	6.6	84	0.00
53	T	4-Methyl-2-pentanone	0.246	0.233	5.3	83	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.396	6.6	83	0.00
55	T	1,1,2-Trichloroethane	0.261	0.245	6.1	85	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	88	0.00
57	S	Toluene-d8 (SS2)	2.035	1.995	2.0	87	0.00
58	T	Toluene	2.041	1.883	7.7	85	0.00
59	T	2-Hexanone	1.166	1.100	5.7	81	0.00
60	T	Dibromochloromethane	0.515	0.493	4.3	83	0.00
61	T	1,2-Dibromoethane	0.549	0.523	4.7	83	0.00
62	T	Butyl Acetate	1.288	1.223	5.0	81	0.00
63	T	n-Octane	0.422	0.391	7.3	84	0.00
64	T	Tetrachloroethene	0.450	0.420	6.7	86	0.00
65	T	Chlorobenzene	1.315	1.224	6.9	84	0.00
66	T	Ethylbenzene	2.390	2.242	6.2	83	0.00
67	T	m- & p-Xylene	1.538	1.453	5.5	83	0.00
68	T	Bromoform	0.319	0.323	-1.3	84	0.00
69	T	Styrene	1.387	1.359	2.0	84	0.00
70	T	o-Xylene	1.663	1.590	4.4	84	0.00
71	T	n-Nonane	1.028	0.946	8.0	80	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.758	4.5	82	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.645	-8.0	94	0.00
74	T	Cumene	2.142	2.043	4.6	84	0.00
75	T	alpha-Pinene	1.139	1.069	6.1	83	0.00
76	T	n-Propylbenzene	2.877	2.743	4.7	83	0.00
77	T	3-Ethyltoluene	2.349	2.226	5.2	82	0.00
78	T	4-Ethyltoluene	2.172	2.118	2.5	85	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.839	3.9	84	0.00
80	T	alpha-Methylstyrene	1.020	1.007	1.3	83	0.00
81	T	2-Ethyltoluene	2.366	2.281	3.6	84	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.842	3.1	85	0.00
83	T	n-Decane	1.108	1.036	6.5	82	0.00
84	T	Benzyl Chloride	1.805	1.797	0.4	82	0.00
85	T	1,3-Dichlorobenzene	1.007	0.983	2.4	86	0.00
86	T	1,4-Dichlorobenzene	0.977	0.947	3.1	85	0.00
87	T	sec-Butylbenzene	2.519	2.436	3.3	85	0.00
88	T	p-Isopropyltoluene	2.033	1.966	3.3	84	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.803	2.8	86	0.00
90	T	1,2-Dichlorobenzene	0.939	0.915	2.6	86	0.00
91	T	d-Limonene	0.792	0.780	1.5	83	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.341	-8.9	88	0.00
93	T	n-Undecane	1.035	0.964	6.9	85	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.200	-7.0	95	0.00
95	T	Naphthalene	2.210	2.415	-9.3	93	0.00
96	T	n-Dodecane	0.745	0.735	1.3	94	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.324	-6.9	96	0.00

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

LM 12/21/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\19\
Data File : 12190601.D
Acq On : 19 Dec 2006 8:39
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 09:05:38 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
Response via : Initial Calibration

all ok for targets ✓

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	76	0.01
2	T	Propene	1.223	1.107	9.5	82	0.00
3	T	Dichlorodifluoromethane	2.559	2.551	0.3	82	0.01
4	T	Chloromethane	2.080	2.039	2.0	80	0.00
5	T	Freon 114	0.675	0.686	-1.6	86	0.01
6	T	Vinyl Chloride	1.418	1.248	12.0	77	0.00
7	T	1,3-Butadiene	1.375	1.295	5.8	80	0.01
8	T	Bromomethane	1.051	0.998	5.0	82	0.01
9	T	Chloroethane	0.974	0.917	5.9	80	0.01
10	T	Ethanol	0.753	0.921	-22.3	76	0.03
11	T	Acetonitrile	2.237	2.448	-9.4	78	0.02
12	T	Acrolein	0.731	0.724	1.0	77	0.02
13	T	Acetone	1.046	0.856	18.2	79	0.02
14	T	Trichlorofluoromethane	1.741	1.744	-0.2	80	0.01
15	T	Isopropanol	3.201	3.451	-7.8	78	0.02
16	T	Acrylonitrile	1.580	1.642	-3.9	77	0.02
17	T	1,1-Dichloroethene	1.172	1.179	-0.6	80	0.00
18	T	tert-Butanol	2.959	3.085	-4.3	82	0.02
19	T	Methylene Chloride	1.345	1.297	3.6	79	0.02
20	T	Allyl Chloride	1.722	1.754	-1.9	77	0.00
21	T	Trichlorotrifluoroethane	0.683	0.595	12.9	86	0.00
22	T	Carbon Disulfide	4.831	4.711	2.5	81	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.799	4.4	76	0.01
24	T	1,1-Dichloroethane	1.910	1.890	1.0	78	0.02
25	T	Methyl tert-Butyl Ether	3.036	2.874	5.3	84	0.00
26	T	Vinyl Acetate	0.253	0.257	-1.6	81	0.01
27	T	2-Butanone	0.805	0.807	-0.2	81	0.01
28	T	cis-1,2-Dichloroethene	1.761	1.691	4.0	76	0.01
29	T	Diisopropyl Ether	0.832	0.808	2.9	82	0.01
30	T	Ethyl Acetate	0.404	0.389	3.7	80	0.01
31	T	n-Hexane	1.584	1.430	9.7	84	0.00
32	T	Chloroform	1.869	1.850	1.0	80	0.01
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.870	0.4	77	0.01
34	T	Tetrahydrofuran	0.759	0.731	3.7	80	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.195	5.2	80	0.00
36	T	1,2-Dichloroethane	1.709	1.652	3.3	77	0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	73	0.00
38	T	1,1,1-Trichloroethane	0.411	0.412	-0.2	78	0.00
39	T	Isopropyl Acetate	0.169	0.173	-2.4	76	0.00
40	T	1-Butanol	0.202	0.282	-39.6#	75	0.00 Note
41	T	Benzene	1.053	1.014	3.7	77	0.00
42	T	Carbon Tetrachloride	0.336	0.347	-3.3	78	0.00
43	T	Cyclohexane	0.367	0.355	3.3	79	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.744	-2.2	78	0.00
45	T	1,2-Dichloropropane	0.268	0.267	0.4	75	0.00
46	T	Bromodichloromethane	0.361	0.383	-6.1	77	0.00
47	T	Trichloroethene	0.238	0.238	0.0	76	0.00
48	T	1,4-Dioxane	0.207	0.215	-3.9	74	0.00
49	T	Isooctane	0.987	0.951	3.6	76	0.00
50	T	Methyl Methacrylate	0.102	0.111	-8.8	77	0.00
51	T	n-Heptane	0.256	0.246	3.9	75	0.00

LM 12/19/06

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603406

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: 12180601.D
Date Analyzed: 12/18/06
Time Analyzed: 07:08

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	383949	9.07	1673302	11.00	894835	15.82
	Upper Limit	537529	9.40	2342623	11.33	1252769	16.15
	Lower Limit	230369	8.74	1003981	10.67	536901	15.49
	Client Sample ID						
01	Method Blank	368372	9.04	1818302	10.98	926192	15.81
02	Lab Control Sample	371604	9.06	1661291	11.00	888047	15.82
03	Duplicate Lab Control Sample	376362	9.07	1695751	11.00	889474	15.82
04	WDI-IBM-28-12-10-06	342567	9.05	1587645	10.98	862433	15.81
05	WDI-IBM-24B-12-10-06	357388	9.05	1680999	10.98	875416	15.81
06	WDI-IBM-03B-12-10-06	358853	9.05	1656545	10.98	909523	15.81
07	WDI-IBM-03B-12-10-06 (Lab Duplicate)	376156	9.05	1738112	10.98	946967	15.81
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.

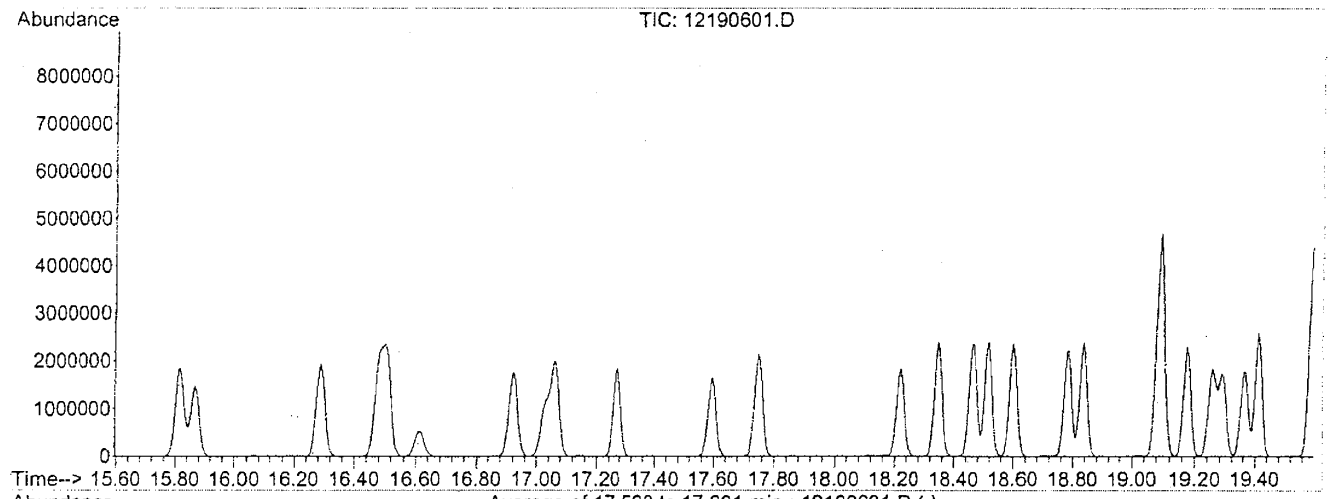
Verified by: RG Date: 12/28/06

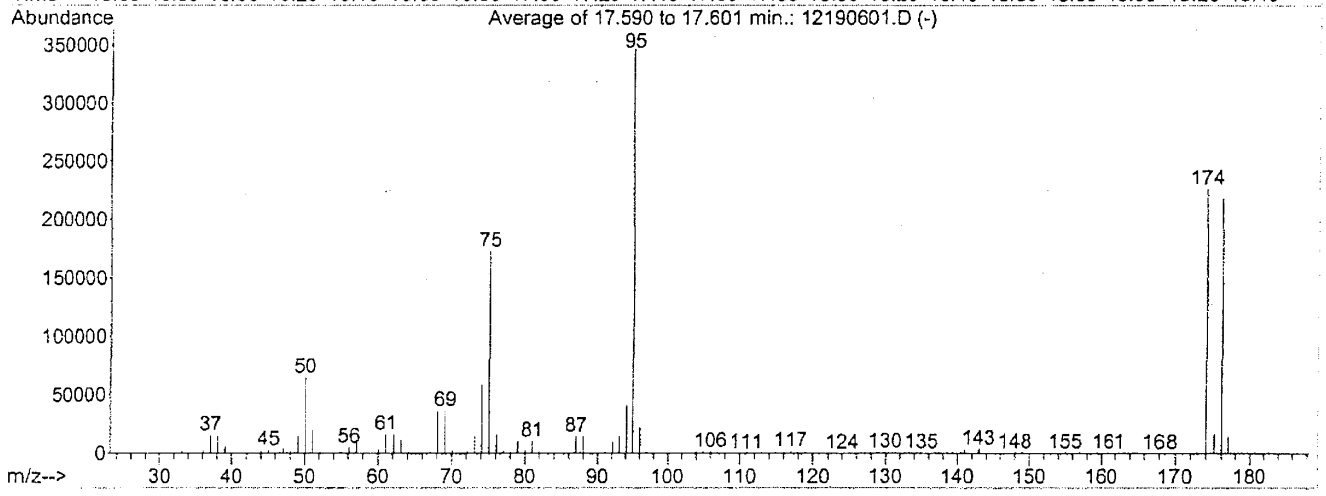
BFB

Data Path : J:\MS08\Data\2006_012\19\
Data File : 12190601.D
Acq On : 19 Dec 2006 8:39
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	65266	PASS
75	95	30	66	49.9	172800	PASS
95	95	100	100	100.0	346282	PASS
96	95	5	9	6.5	22488	PASS
173	174	0.00	2	0.2	558	PASS
174	95	50	120	65.4	226474	PASS
175	174	4	9	7.3	16421	PASS
176	174	93	101	96.3	217984	PASS
177	176	5	9	6.8	14717	PASS

LM 12/19/06

101

Data Path : J:\MS08\Data\2006_012\19\
Data File : 12190601.D
Acq On : 19 Dec 2006 8:39
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 09:05:38 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.466	-2.4	75	0.00
53	T	4-Methyl-2-pentanone	0.246	0.256	-4.1	75	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.441	-4.0	75	0.00
55	T	1,1,2-Trichloroethane	0.261	0.260	0.4	74	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	75	0.00
57	S	Toluene-d8 (SS2)	2.035	1.924	5.5	71	0.00
58	T	Toluene	2.041	1.930	5.4	73	0.00
59	T	2-Hexanone	1.166	1.199	-2.8	75	0.00
60	T	Dibromochloromethane	0.515	0.518	-0.6	74	0.00
61	T	1,2-Dibromoethane	0.549	0.543	1.1	73	0.00
62	T	Butyl Acetate	1.288	1.335	-3.6	75	0.00
63	T	n-Octane	0.422	0.408	3.3	74	0.00
64	T	Tetrachloroethene	0.450	0.420	6.7	73	0.00
65	T	Chlorobenzene	1.315	1.247	5.2	72	0.00
66	T	Ethylbenzene	2.390	2.345	1.9	74	0.00
67	T	m- & p-Xylene	1.538	1.533	0.3	74	0.00
68	T	Bromoform	0.319	0.341	-6.9	75	0.00
69	T	Styrene	1.387	1.385	0.1	72	0.00
70	T	o-Xylene	1.663	1.650	0.8	74	0.00
71	T	n-Nonane	1.028	1.022	0.6	74	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.788	0.8	73	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.621	-4.0	77	0.00
74	T	Cumene	2.142	2.106	1.7	73	0.00
75	T	alpha-Pinene	1.139	1.102	3.2	73	0.00
76	T	n-Propylbenzene	2.877	2.902	-0.9	74	0.00
77	T	3-Ethyltoluene	2.349	2.337	0.5	73	0.00
78	T	4-Ethyltoluene	2.172	2.207	-1.6	75	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.946	-1.7	75	0.00
80	T	alpha-Methylstyrene	1.020	1.041	-2.1	72	0.00
81	T	2-Ethyltoluene	2.366	2.354	0.5	73	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.922	-1.2	75	0.00
83	T	n-Decane	1.108	1.094	1.3	73	0.00
84	T	Benzyl Chloride	1.805	1.882	-4.3	73	0.00
85	T	1,3-Dichlorobenzene	1.007	0.981	2.6	73	0.00
86	T	1,4-Dichlorobenzene	0.977	0.962	1.5	73	0.00
87	T	sec-Butylbenzene	2.519	2.507	0.5	74	0.00
88	T	p-Isopropyltoluene	2.033	2.055	-1.1	75	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.881	-1.5	76	0.00
90	T	1,2-Dichlorobenzene	0.939	0.944	-0.5	75	0.00
91	T	d-Limonene	0.792	0.831	-4.9	75	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.362	-15.7	79	0.00
93	T	n-Undecane	1.035	1.004	3.0	75	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.197	-5.3	80	0.00
95	T	Naphthalene	2.210	2.440	-10.4	80	0.00
96	T	n-Dodecane	0.745	0.710	4.7	77	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.325	-7.3	81	0.00

LM 12/19/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\19\
Data File : 12190603.D
Acq On : 19 Dec 2006 10:40
Operator : LM
Sample : 1ng TO-15 STD
Misc : S15-12190601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

CRDL Standard

Quant Time: Dec 19 17:09:04 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	77	-0.01
2	T	Propene	1.223	1.532	-25.3	79	0.02
3	T	Dichlorodifluoromethane	2.559	2.974	-16.2	78	0.02
4	T	Chloromethane	2.080	2.273	-9.3	77	0.00
5	T	Freon 114	0.675	0.821	-21.6	78	0.02
6	T	Vinyl Chloride	1.418	1.622	-14.4	70	0.01
7	T	1,3-Butadiene	1.375	1.476	-7.3	72	0.02
8	T	Bromomethane	1.051	1.081	-2.9	70	0.02
9	T	Chloroethane	0.974	1.023	-5.0	72	0.01
10	T	Ethanol	0.753	0.543	27.9	74	0.00
11	T	Acetonitrile	2.237	2.066	7.6	76	0.02
12	T	Acrolein	0.731	0.715	2.2	77	0.02
13	T	Acetone	1.046	1.397	-33.6#	94	0.01
14	T	Trichlorofluoromethane	1.741	1.880	-8.0	78	0.00
15	T	Isopropanol	3.201	3.548	-10.8	78	0.00
16	T	Acrylonitrile	1.580	1.502	4.9	79	0.00
17	T	1,1-Dichloroethene	1.172	1.138	2.9	69	0.01
18	T	tert-Butanol	2.959	3.435	-16.1	75	0.00
19	T	Methylene Chloride	1.345	1.442	-7.2	76	0.00
20	T	Allyl Chloride	1.722	1.553	9.8	70	0.00
21	T	Trichlorotrifluoroethane	0.683	0.819	-19.9	81	0.00
22	T	Carbon Disulfide	4.831	5.276	-9.2	75	0.01
23	T	trans-1,2-Dichloroethene	1.881	1.885	-0.2	74	0.00
24	T	1,1-Dichloroethane	1.910	2.070	-8.4	79	0.00
25	T	Methyl tert-Butyl Ether	3.036	3.450	-13.6	75	0.00
26	T	Vinyl Acetate	0.253	0.271	-7.1	71	0.00
27	T	2-Butanone	0.805	0.826	-2.6	77	0.01
28	T	cis-1,2-Dichloroethene	1.761	1.664	5.5	69	-0.01
29	T	Diisopropyl Ether	0.832	0.929	-11.7	74	0.00
30	T	Ethyl Acetate	0.404	0.410	-1.5	72	0.00
31	T	n-Hexane	1.584	1.839	-16.1	75	0.00
32	T	Chloroform	1.869	2.009	-7.5	73	-0.02
33	S	1,2-Dichloroethane-d4(SS1)	1.877	2.046	-9.0	80	0.00
34	T	Tetrahydrofuran	0.759	0.791	-4.2	75	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.386	-9.9	75	0.00
36	T	1,2-Dichloroethane	1.709	1.780	-4.2	75	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	80	0.00
38	T	1,1,1-Trichloroethane	0.411	0.397	3.4	73	-0.01
39	T	Isopropyl Acetate	0.169	0.156	7.7	72	0.00
40	T	1-Butanol	0.202	0.128	36.6#	76	0.02
41	T	Benzene	1.053	1.027	2.5	71	0.00
42	T	Carbon Tetrachloride	0.336	0.327	2.7	78	-0.02
43	T	Cyclohexane	0.367	0.384	-4.6	76	-0.01
44	T	tert-Amyl Methyl Ether	0.728	0.727	0.1	75	0.00
45	T	1,2-Dichloropropane	0.268	0.254	5.2	74	-0.01
46	T	Bromodichloromethane	0.361	0.336	6.9	75	-0.01
47	T	Trichloroethene	0.238	0.235	1.3	77	0.00
48	T	1,4-Dioxane	0.207	0.181	12.6	71	0.00
49	T	Isooctane	0.987	1.002	-1.5	75	0.00
50	T	Methyl Methacrylate	0.102	0.091	10.8	73	0.00
51	T	n-Heptane	0.256	0.249	2.7	74	0.00

OK < 35%

LM 1/12/07

119

Data Path : J:\MS08\Data\2006_012\19\
Data File : 12190603.D
Acq On : 19 Dec 2006 10:40
Operator : LM
Sample : 1ng TO-15 STD
Misc : S15-12190601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 17:09:04 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.411	9.7	71	0.00
53	T	4-Methyl-2-pentanone	0.246	0.223	9.3	71	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.377	11.1	71	0.00
55	T	1,1,2-Trichloroethane	0.261	0.250	4.2	76	-0.01
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	81	0.00
57	S	Toluene-d8 (SS2)	2.035	2.015	1.0	80	-0.01
58	T	Toluene	2.041	2.002	1.9	73	0.00
59	T	2-Hexanone	1.166	1.062	8.9	73	0.00
60	T	Dibromochloromethane	0.515	0.486	5.6	76	-0.01
61	T	1,2-Dibromoethane	0.549	0.532	3.1	76	0.00
62	T	Butyl Acetate	1.288	1.148	10.9	71	0.00
63	T	n-Octane	0.422	0.414	1.9	74	0.00
64	T	Tetrachloroethene	0.450	0.422	6.2	70	0.00
65	T	Chlorobenzene	1.315	1.267	3.7	73	-0.01
66	T	Ethylbenzene	2.390	2.234	6.5	71	-0.01
67	T	m- & p-Xylene	1.538	1.477	4.0	72	-0.02
68	T	Bromoform	0.319	0.283	11.3	74	-0.02
69	T	Styrene	1.387	1.241	10.5	71	0.00
70	T	o-Xylene	1.663	1.592	4.3	73	-0.01
71	T	n-Nonane	1.028	1.004	2.3	74	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.744	6.3	74	-0.01
73	S	Bromofluorobenzene (SS3)	0.597	0.627	-5.0	85	0.00
74	T	Cumene	2.142	2.058	3.9	73	-0.01
75	T	alpha-Pinene	1.139	1.026	9.9	68	-0.01
76	T	n-Propylbenzene	2.877	2.695	6.3	71	0.00
77	T	3-Ethyltoluene	2.349	2.137	9.0	71	0.00
78	T	4-Ethyltoluene	2.172	2.108	2.9	72	-0.01
79	T	1,3,5-Trimethylbenzene	1.913	1.785	6.7	70	0.00
80	T	alpha-Methylstyrene	1.020	0.855	16.2	68	0.00
81	T	2-Ethyltoluene	2.366	2.219	6.2	71	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.802	5.2	72	-0.01
83	T	n-Decane	1.108	1.032	6.9	71	-0.01
84	T	Benzyl Chloride	1.805	1.545	14.4	69	-0.01
85	T	1,3-Dichlorobenzene	1.007	0.941	6.6	71	-0.01
86	T	1,4-Dichlorobenzene	0.977	0.913	6.6	71	0.00
87	T	sec-Butylbenzene	2.519	2.400	4.7	72	0.00
88	T	p-Isopropyltoluene	2.033	1.896	6.7	70	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.719	7.3	71	0.00
90	T	1,2-Dichlorobenzene	0.939	0.860	8.4	70	-0.01
91	T	d-Limonene	0.792	0.681	14.0	69	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.265	15.3	75	0.00
93	T	n-Undecane	1.035	0.925	10.6	67	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.159	15.0	66	0.00
95	T	Naphthalene	2.210	1.855	16.1	68	0.00
96	T	n-Dodecane	0.745	0.719	3.5	70	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.280	7.6	73	0.00

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

LM 1/12/07

120

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\19\
Data File : 12190614.D
Acq On : 19 Dec 2006 19:58
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 08:46:37 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	94	0.00
2	T	Propene	1.223	0.857	29.9	78	0.00
3	T	Dichlorodifluoromethane	2.559	1.980	22.6	79	0.00
4	T	Chloromethane	2.080	1.634	21.4	79	0.00
5	T	Freon 114	0.675	0.555	17.8	86	0.00
6	T	Vinyl Chloride	1.418	0.969	31.7#	73	0.00 J/UJ
7	T	1,3-Butadiene	1.375	1.042	24.2	80	0.00
8	T	Bromomethane	1.051	0.841	20.0	85	0.00
9	T	Chloroethane	0.974	0.764	21.6	82	0.00
10	T	Ethanol	0.753	0.757	-0.5	77	0.02
11	T	Acetonitrile	2.237	1.958	12.5	77	0.01
12	T	Acrolein	0.731	0.636	13.0	84	0.01
13	T	Acetone	1.046	0.787	24.8	90	0.01
14	T	Trichlorofluoromethane	1.741	1.425	18.2	81	0.00
15	T	Isopropanol	3.201	2.789	12.9	78	0.01
16	T	Acrylonitrile	1.580	1.372	13.2	79	0.01
17	T	1,1-Dichloroethene	1.172	0.985	16.0	82	0.00
18	T	tert-Butanol	2.959	2.464	16.7	80	0.01
19	T	Methylene Chloride	1.345	1.091	18.9	82	0.01
20	T	Allyl Chloride	1.722	1.411	18.1	76	0.00
21	T	Trichlorotrifluoroethane	0.683	0.514	24.7	92	0.00
22	T	Carbon Disulfide	4.831	3.892	19.4	83	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.500	20.3	78	0.00
24	T	1,1-Dichloroethane	1.910	1.542	19.3	78	0.01
25	T	Methyl tert-Butyl Ether	3.036	2.418	20.4	87	0.00
26	T	Vinyl Acetate	0.253	0.233	7.9	91	0.00
27	T	2-Butanone	0.805	0.698	13.3	86	0.01
28	T	cis-1,2-Dichloroethene	1.761	1.410	19.9	78	0.00
29	T	Diisopropyl Ether	0.832	0.705	15.3	88	0.00
30	T	Ethyl Acetate	0.404	0.337	16.6	85	0.00
31	T	n-Hexane	1.584	1.206	23.9	87	0.00
32	T	Chloroform	1.869	1.509	19.3	80	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.709	9.0	87	0.00
34	T	Tetrahydrofuran	0.759	0.656	13.6	88	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.060	15.9	88	0.00
36	T	1,2-Dichloroethane	1.709	1.351	20.9	78	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	96	0.00
38	T	1,1,1-Trichloroethane	0.411	0.336	18.2	83	0.00
39	T	Isopropyl Acetate	0.169	0.146	13.6	85	0.00
40	T	1-Butanol	0.202	0.230	-13.9	80	0.00
41	T	Benzene	1.053	0.858	18.5	85	0.00
42	T	Carbon Tetrachloride	0.336	0.286	14.9	84	0.00
43	T	Cyclohexane	0.367	0.301	18.0	88	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.615	15.5	85	0.00
45	T	1,2-Dichloropropane	0.268	0.224	16.4	83	0.00
46	T	Bromodichloromethane	0.361	0.312	13.6	82	0.00
47	T	Trichloroethene	0.238	0.212	10.9	89	0.00
48	T	1,4-Dioxane	0.207	0.188	9.2	85	0.00
49	T	Isooctane	0.987	0.795	19.5	83	0.00
50	T	Methyl Methacrylate	0.102	0.096	5.9	87	0.00
51	T	n-Heptane	0.256	0.211	17.6	84	0.00

LM 12/27/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\19\
Data File : 12190614.D
Acq On : 19 Dec 2006 19:58
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12050601/S15-12050606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 08:46:37 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.388	14.7	82	0.00
53	T	4-Methyl-2-pentanone	0.246	0.212	13.8	81	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.360	15.1	80	0.00
55	T	1,1,2-Trichloroethane	0.261	0.225	13.8	84	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	94	0.00
57	S	Toluene-d8 (SS2)	2.035	2.010	1.2	93	0.00
58	T	Toluene	2.041	1.749	14.3	84	0.00
59	T	2-Hexanone	1.166	0.984	15.6	77	0.00
60	T	Dibromochloromethane	0.515	0.462	10.3	83	0.00
61	T	1,2-Dibromoethane	0.549	0.491	10.6	83	0.00
62	T	Butyl Acetate	1.288	1.095	15.0	77	0.00
63	T	n-Octane	0.422	0.354	16.1	81	0.00
64	T	Tetrachloroethene	0.450	0.400	11.1	87	0.00
65	T	Chlorobenzene	1.315	1.158	11.9	84	0.00
66	T	Ethylbenzene	2.390	2.074	13.2	82	0.00
67	T	m- & p-Xylene	1.538	1.341	12.8	82	0.00
68	T	Bromoform	0.319	0.304	4.7	85	0.00
69	T	Styrene	1.387	1.274	8.1	84	0.00
70	T	o-Xylene	1.663	1.465	11.9	82	0.00
71	T	n-Nonane	1.028	0.845	17.8	77	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.702	11.6	81	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.679	-13.7	106	0.00
74	T	Cumene	2.142	1.901	11.3	83	0.00
75	T	alpha-Pinene	1.139	0.994	12.7	82	0.00
76	T	n-Propylbenzene	2.877	2.524	12.3	81	0.00
77	T	3-Ethyltoluene	2.349	2.125	9.5	84	0.00
78	T	4-Ethyltoluene	2.172	1.906	12.2	82	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.704	10.9	83	0.00
80	T	alpha-Methylstyrene	1.020	0.944	7.5	83	0.00
81	T	2-Ethyltoluene	2.366	2.113	10.7	83	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.695	10.8	83	0.00
83	T	n-Decane	1.108	0.939	15.3	79	0.00
84	T	Benzyl Chloride	1.805	1.656	8.3	81	0.00
85	T	1,3-Dichlorobenzene	1.007	0.913	9.3	85	0.00
86	T	1,4-Dichlorobenzene	0.977	0.889	9.0	85	0.00
87	T	sec-Butylbenzene	2.519	2.261	10.2	84	0.00
88	T	p-Isopropyltoluene	2.033	1.836	9.7	84	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.658	10.6	84	0.00
90	T	1,2-Dichlorobenzene	0.939	0.855	8.9	85	0.00
91	T	d-Limonene	0.792	0.713	10.0	81	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.325	-3.8	89	0.00
93	T	n-Undecane	1.035	0.864	16.5	81	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.186	0.5	95	0.00
95	T	Naphthalene	2.210	2.246	-1.6	92	0.00
96	T	n-Dodecane	0.745	0.634	14.9	87	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.308	-1.7	97	0.00

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

LM 12/27/06

122

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603406

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: 12190601.D
Date Analyzed: 12/19/06
Time Analyzed: 08:39

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	327860	9.07	1365949	11.00	761935	15.81
	Upper Limit	459004	9.40	1912329	11.33	1066709	16.14
	Lower Limit	196716	8.74	819569	10.67	457161	15.48
	Client Sample ID						
01	Method Blank	306917	9.04	1538942	10.98	801555	15.81
02	Lab Control Sample	343399	9.06	1522955	11.00	853356	15.82
03	Duplicate Lab Control Sample	360382	9.06	1622474	11.00	895458	15.81
04	WDI-IBM-50-12-10-06	377855	9.04	1710943	10.98	907223	15.81
05	WDI-IBM-50-12-10-06-SC	389674	9.05	1808639	10.98	970425	15.81
06	WDI-VW-31-S-12-12-06	415863	9.04	1905661	10.98	1007967	15.81
07	WDI-VW-34-I-12-12-06-SC	386009	9.04	1808349	10.98	1004765	15.81
08	WDI-VW-34-S-12-12-06	388971	9.04	1808772	10.98	984249	15.81
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.

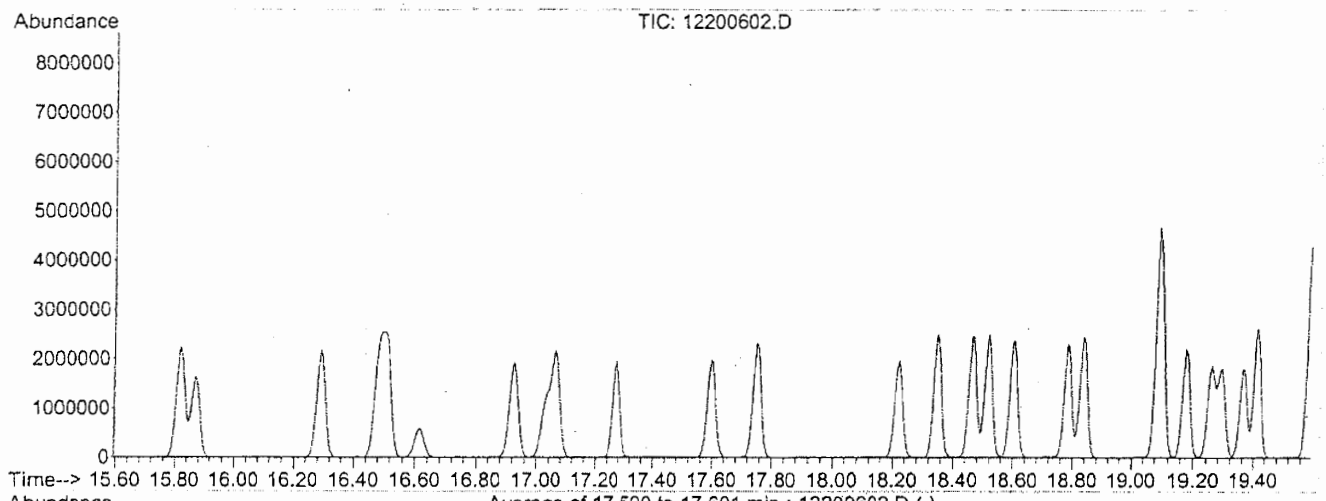
Verified by: RG Date: 12/28/06

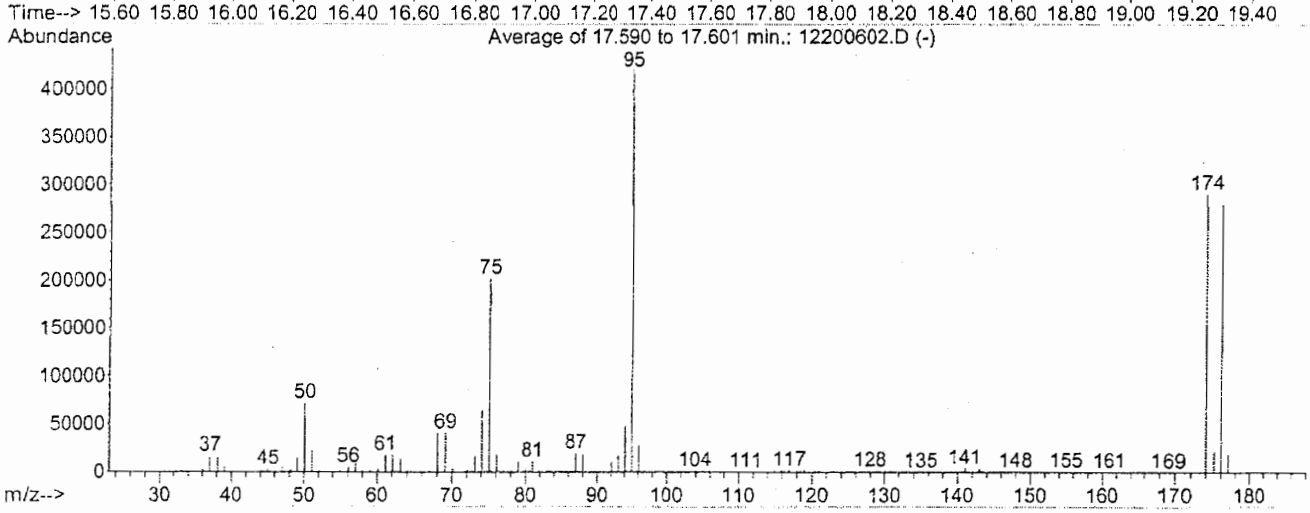
Data Path : J:\MS08\DATA\2006_012\20\
Data File : 12200602.D
Acq On : 20 Dec 2006 9:52
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.0	71546	PASS
75	95	30	66	47.9	201856	PASS
95	95	100	100	100.0	421781	PASS
96	95	5	9	6.4	27074	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	68.8	290261	PASS
175	174	4	9	7.4	21581	PASS
176	174	93	101	96.5	279957	PASS
177	176	5	9	6.6	18582	PASS

LM 12/21/06

102

Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\20\
Data File : 12200602.D
Acq On : 20 Dec 2006 9:52
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 11:27:05 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.417	8.4	85	0.00
53	T	4-Methyl-2-pentanone	0.246	0.220	10.6	81	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.386	9.0	83	0.00
55	T	1,1,2-Trichloroethane	0.261	0.239	8.4	86	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	90	0.00
57	S	Toluene-d8 (SS2)	2.035	1.998	1.8	89	0.00
58	T	Toluene	2.041	1.868	8.5	86	0.00
59	T	2-Hexanone	1.166	1.007	13.6	76	0.00
60	T	Dibromochloromethane	0.515	0.491	4.7	85	0.00
61	T	1,2-Dibromoethane	0.549	0.521	5.1	85	0.00
62	T	Butyl Acetate	1.288	1.125	12.7	76	0.00
63	T	n-Octane	0.422	0.378	10.4	83	0.00
64	T	Tetrachloroethene	0.450	0.422	6.2	88	0.00
65	T	Chlorobenzene	1.315	1.219	7.3	85	0.00
66	T	Ethylbenzene	2.390	2.181	8.7	83	0.00
67	T	m- & p-Xylene	1.538	1.401	8.9	82	0.00
68	T	Bromoform	0.319	0.313	1.9	84	0.00
69	T	Styrene	1.387	1.317	5.0	83	0.00
70	T	o-Xylene	1.663	1.512	9.1	82	0.00
71	T	n-Nonane	1.028	0.869	15.5	76	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.707	11.0	79	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.677	-13.4	102	0.00
74	T	Cumene	2.142	1.953	8.8	83	0.00
75	T	alpha-Pinene	1.139	1.025	10.0	82	0.00
76	T	n-Propylbenzene	2.877	2.562	10.9	79	0.00
77	T	3-Ethyltoluene	2.349	2.060	12.3	78	0.00
78	T	4-Ethyltoluene	2.172	1.943	10.5	80	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.664	13.0	78	0.00
80	T	alpha-Methylstyrene	1.020	0.932	8.6	79	0.00
81	T	2-Ethyltoluene	2.366	2.073	12.4	78	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.623	14.6	76	0.00
83	T	n-Decane	1.108	0.887	19.9	72	0.00
84	T	Benzyl Chloride	1.805	1.605	11.1	75	0.00
85	T	1,3-Dichlorobenzene	1.007	0.881	12.5	79	0.00
86	T	1,4-Dichlorobenzene	0.977	0.852	12.8	78	0.00
87	T	sec-Butylbenzene	2.519	2.182	13.4	78	0.00
88	T	p-Isopropyltoluene	2.033	1.718	15.5	76	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.546	16.6	75	0.00
90	T	1,2-Dichlorobenzene	0.939	0.799	14.9	77	0.00
91	T	d-Limonene	0.792	0.663	16.3	72	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.277	11.5	73	0.00
93	T	n-Undecane	1.035	0.672	35.1#	61	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.128	31.6#	63	0.00
95	T	Naphthalene	2.210	1.521	31.2#	60	0.00
96	T	n-Dodecane	0.745	0.394	47.1#	52	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.208	31.4#	63	0.00

LM 12/21/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\20\
Data File : 12200604.D
Acq On : 20 Dec 2006 12:08
Operator : LM
Sample : 1ng TO-15 STD
Misc : S15-12190601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 12:40:53 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	87	-0.01
2	T	Propene	1.223	1.429	-16.8	84	0.02
3	T	Dichlorodifluoromethane	2.559	2.688	-5.0	80	0.02
4	T	Chloromethane	2.080	1.991	4.3	77	0.00
5	T	Freon 114	0.675	0.820	-21.5	89	0.02
6	T	Vinyl Chloride	1.418	1.387	2.2	68	0.01
7	T	1,3-Butadiene	1.375	1.061	22.8	59	0.02
8	T	Bromomethane	1.051	1.104	-5.0	81	0.01
9	T	Chloroethane	0.974	0.938	3.7	75	0.00
.0	T	Ethanol	0.753	0.523	30.5#	81	0.00
.1	T	Acetonitrile	2.237	1.835	18.0	77	0.01
.2	T	Acrolein	0.731	0.675	7.7	83	0.02
.3	T	Acetone	1.046	1.129	-7.9	87	0.02
.4	T	Trichlorofluoromethane	1.741	1.675	3.8	79	0.00
.5	T	Isopropanol	3.201	2.986	6.7	74	0.00
.6	T	Acrylonitrile	1.580	1.400	11.4	84	0.00
.7	T	1,1-Dichloroethene	1.172	1.113	5.0	77	0.00
8	T	tert-Butanol	2.959	3.016	-1.9	75	0.00
.9	T	Methylene Chloride	1.345	1.290	4.1	78	0.00
.0	T	Allyl Chloride	1.722	1.392	19.2	72	0.00
:1	T	Trichlorotrifluoroethane	0.683	0.706	-3.4	80	0.00
:2	T	Carbon Disulfide	4.831	4.982	-3.1	81	0.00
:3	T	trans-1,2-Dichloroethene	1.881	1.617	14.0	73	0.00
.4	T	1,1-Dichloroethane	1.910	1.886	1.3	82	0.00
5	T	Methyl tert-Butyl Ether	3.036	3.024	0.4	75	0.00
6	T	Vinyl Acetate	0.253	0.263	-4.0	79	0.00
7	T	2-Butanone	0.805	0.751	6.7	80	0.00
8	T	cis-1,2-Dichloroethene	1.761	1.549	12.0	74	-0.01
9	T	Diisopropyl Ether	0.832	0.853	-2.5	78	0.00
0	T	Ethyl Acetate	0.404	0.374	7.4	74	0.00
1	T	n-Hexane	1.584	1.626	-2.7	76	0.00
2	T	Chloroform	1.869	1.854	0.8	76	-0.02
3	S	1,2-Dichloroethane-d4(SS1)	1.877	1.820	3.0	82	0.00
4	T	Tetrahydrofuran	0.759	0.698	8.0	75	0.00
5	T	Ethyl tert-Butyl Ether	1.261	1.226	2.8	76	0.00
6	T	1,2-Dichloroethane	1.709	1.525	10.8	74	0.00
7	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	87	0.00
8	T	1,1,1-Trichloroethane	0.411	0.373	9.2	74	-0.01
9	T	Isopropyl Acetate	0.169	0.155	8.3	77	0.00
0	T	1-Butanol	0.202	0.120	40.6#	77	0.01
1	T	Benzene	1.053	1.002	4.8	74	0.00
2	T	Carbon Tetrachloride	0.336	0.309	8.0	80	-0.02
3	T	Cyclohexane	0.367	0.361	1.6	77	-0.01
4	T	tert-Amyl Methyl Ether	0.728	0.691	5.1	77	0.00
5	T	1,2-Dichloropropane	0.268	0.243	9.3	77	-0.01
6	T	Bromodichloromethane	0.361	0.325	10.0	78	-0.01
7	T	Trichloroethene	0.238	0.229	3.8	81	0.00
8	T	1,4-Dioxane	0.207	0.176	15.0	75	0.00
9	T	Isooctane	0.987	0.925	6.3	75	0.00
0	T	Methyl Methacrylate	0.102	0.092	9.8	80	0.00
1	T	n-Heptane	0.256	0.240	6.3	77	0.00

LM 12/27/06

Data Path : J:\MS08\Data\2006_012\20\
Data File : 12200604.D
Acq On : 20 Dec 2006 12:08
Operator : LM
Sample : 1ng TO-15 STD
Misc : S15-12190601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 12:40:53 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.394	13.4	73	-0.01
53	T	4-Methyl-2-pentanone	0.246	0.210	14.6	73	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.354	16.5	72	0.00
55	T	1,1,2-Trichloroethane	0.261	0.236	9.6	78	-0.02
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	88	0.00
57	S	Toluene-d8 (SS2)	2.035	1.990	2.2	85	-0.01
58	T	Toluene	2.041	1.920	5.9	76	0.00
59	T	2-Hexanone	1.166	0.939	19.5	70	0.00
60	T	Dibromochloromethane	0.515	0.457	11.3	77	0.00
61	T	1,2-Dibromoethane	0.549	0.501	8.7	77	-0.02
62	T	Butyl Acetate	1.288	1.035	19.6	69	0.00
63	T	n-Octane	0.422	0.366	13.3	71	0.00
64	T	Tetrachloroethene	0.450	0.419	6.9	75	0.00
65	T	Chlorobenzene	1.315	1.211	7.9	75	-0.01
66	T	Ethylbenzene	2.390	2.186	8.5	75	-0.01
67	T	m- & p-Xylene	1.538	1.410	8.3	74	0.00
68	T	Bromoform	0.319	0.279	12.5	79	-0.01
69	T	Styrene	1.387	1.224	11.8	76	0.00
70	T	o-Xylene	1.663	1.537	7.6	76	-0.01
71	T	n-Nonane	1.028	0.893	13.1	71	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.705	11.2	75	-0.01
73	S	Bromofluorobenzene (SS3)	0.597	0.678	-13.6	99	0.00
74	T	Cumene	2.142	2.001	6.6	77	0.00
75	T	alpha-Pinene	1.139	0.988	13.3	71	-0.01
76	T	n-Propylbenzene	2.877	2.612	9.2	75	0.00
77	T	3-Ethyltoluene	2.349	2.190	6.8	79	0.00
78	T	4-Ethyltoluene	2.172	1.972	9.2	73	-0.01
79	T	1,3,5-Trimethylbenzene	1.913	1.740	9.0	74	0.00
80	T	alpha-Methylstyrene	1.020	0.856	16.1	74	0.00
81	T	2-Ethyltoluene	2.366	2.200	7.0	76	-0.01
82	T	1,2,4-Trimethylbenzene	1.900	1.740	8.4	76	-0.01
83	T	n-Decane	1.108	0.992	10.5	74	-0.01
84	T	Benzyl Chloride	1.805	1.517	16.0	73	-0.01
85	T	1,3-Dichlorobenzene	1.007	0.928	7.8	76	-0.01
86	T	1,4-Dichlorobenzene	0.977	0.919	5.9	78	0.00
87	T	sec-Butylbenzene	2.519	2.332	7.4	75	0.00
88	T	p-Isopropyltoluene	2.033	1.894	6.8	76	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.708	7.9	76	0.00
90	T	1,2-Dichlorobenzene	0.939	0.895	4.7	79	0.00
91	T	d-Limonene	0.792	0.646	18.4	71	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.270	13.7	82	0.00
93	T	n-Undecane	1.035	0.879	15.1	69	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.166	11.2	74	0.00
95	T	Naphthalene	2.210	1.862	15.7	74	0.00
96	T	n-Dodecane	0.745	0.688	7.7	72	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.279	7.9	79	-0.01

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

LM 12/27/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\20\
Data File : 12200615.D
Acq On : 20 Dec 2006 21:06
Operator : LM
Sample : 25ng TO-15 CCV Std
Misc : S15-12050601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 08:29:53 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	84	0.01
2	T	Propene	1.223	0.890	27.2	73	0.00
3	T	Dichlorodifluoromethane	2.559	2.146	16.1	77	0.00
4	T	Chloromethane	2.080	1.754	15.7	77	0.00
5	T	Freon 114	0.675	0.605	10.4	84	0.00
6	T	Vinyl Chloride	1.418	0.977	31.1#	67	0.00
7	T	1,3-Butadiene	1.375	0.848	38.3#	58	0.00
8	T	Bromomethane	1.051	0.860	18.2	78	0.00
9	T	Chloroethane	0.974	0.776	20.3	75	0.00
10	T	Ethanol	0.753	0.777	-3.2	72	0.02
11	T	Acetonitrile	2.237	1.907	14.8	67	0.02
12	T	Acrolein	0.731	0.656	10.3	78	0.02
13	T	Acetone	1.046	0.863	17.5	89	0.02
14	T	Trichlorofluoromethane	1.741	1.503	13.7	76	0.00
15	T	Isopropanol	3.201	2.702	15.6	68	0.02
16	T	Acrylonitrile	1.580	1.435	9.2	74	0.02
17	T	1,1-Dichloroethene	1.172	1.053	10.2	79	0.00
18	T	tert-Butanol	2.959	2.294	22.5	67	0.02
19	T	Methylene Chloride	1.345	1.149	14.6	78	0.01
20	T	Allyl Chloride	1.722	1.475	14.3	71	0.00
21	T	Trichlorotrifluoroethane	0.683	0.478	30.0#	77	0.00
22	T	Carbon Disulfide	4.831	4.096	15.2	78	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.544	17.9	73	0.00
24	T	1,1-Dichloroethane	1.910	1.649	13.7	75	0.01
25	T	Methyl tert-Butyl Ether	3.036	2.357	22.4	77	0.00
26	T	Vinyl Acetate	0.253	0.230	9.1	81	0.01
27	T	2-Butanone	0.805	0.705	12.4	78	0.02
28	T	cis-1,2-Dichloroethene	1.761	1.492	15.3	74	0.01
29	T	Diisopropyl Ether	0.832	0.729	12.4	82	0.01
30	T	Ethyl Acetate	0.404	0.343	15.1	78	0.01
31	T	n-Hexane	1.584	1.206	23.9	78	0.00
32	T	Chloroform	1.869	1.650	11.7	79	0.01
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.709	9.0	78	0.01
34	T	Tetrahydrofuran	0.759	0.676	10.9	82	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.089	13.6	81	0.00
36	T	1,2-Dichloroethane	1.709	1.421	16.9	74	0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	84	0.01
38	T	1,1,1-Trichloroethane	0.411	0.355	13.6	77	0.00
39	T	Isopropyl Acetate	0.169	0.156	7.7	79	0.00
40	T	1-Butanol	0.202	0.210	-4.0	64	0.00
41	T	Benzene	1.053	0.916	13.0	79	0.00
42	T	Carbon Tetrachloride	0.336	0.303	9.8	78	0.00
43	T	Cyclohexane	0.367	0.313	14.7	80	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.655	10.0	79	0.00
45	T	1,2-Dichloropropane	0.268	0.241	10.1	78	0.00
46	T	Bromodichloromethane	0.361	0.341	5.5	78	0.00
47	T	Trichloroethene	0.238	0.227	4.6	83	0.00
48	T	1,4-Dioxane	0.207	0.195	5.8	77	0.00
49	T	Isooctane	0.987	0.841	14.8	77	0.00
50	T	Methyl Methacrylate	0.102	0.102	0.0	81	0.00
51	T	n-Heptane	0.256	0.223	12.9	78	0.00

LM 12/27/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\20\
Data File : 12200615.D
Acq On : 20 Dec 2006 21:06
Operator : LM
Sample : 25ng TO-15 CCV Std
Misc : S15-12050601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 08:29:53 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.420	7.7	78	0.00
53	T	4-Methyl-2-pentanone	0.246	0.224	8.9	75	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.391	7.8	76	0.00
55	T	1,1,2-Trichloroethane	0.261	0.246	5.7	80	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	84	0.00
57	S	Toluene-d8 (SS2)	2.035	1.966	3.4	82	0.00
58	T	Toluene	2.041	1.849	9.4	79	0.00
59	T	2-Hexanone	1.166	0.998	14.4	70	0.00
60	T	Dibromochloromethane	0.515	0.493	4.3	79	0.00
61	T	1,2-Dibromoethane	0.549	0.521	5.1	79	0.00
62	T	Butyl Acetate	1.288	1.121	13.0	71	0.00
63	T	n-Octane	0.422	0.376	10.9	77	0.00
64	T	Tetrachloroethene	0.450	0.425	5.6	82	0.00
65	T	Chlorobenzene	1.315	1.244	5.4	81	0.00
66	T	Ethylbenzene	2.390	2.242	6.2	79	0.00
67	T	m- & p-Xylene	1.538	1.446	6.0	79	0.00
68	T	Bromoform	0.319	0.325	-1.9	81	0.00
69	T	Styrene	1.387	1.372	1.1	81	0.00
70	T	o-Xylene	1.663	1.566	5.8	79	0.00
71	T	n-Nonane	1.028	0.903	12.2	73	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.738	7.1	77	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.689	-15.4	96	0.00
74	T	Cumene	2.142	2.042	4.7	80	0.00
75	T	alpha-Pinene	1.139	1.071	6.0	79	0.00
76	T	n-Propylbenzene	2.877	2.733	5.0	79	0.00
77	T	3-Ethyltoluene	2.349	2.256	4.0	80	0.00
78	T	4-Ethyltoluene	2.172	2.054	5.4	79	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.800	5.9	78	0.00
80	T	alpha-Methylstyrene	1.020	1.000	2.0	78	0.00
81	T	2-Ethyltoluene	2.366	2.242	5.2	78	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.783	6.2	78	0.00
83	T	n-Decane	1.108	0.969	12.5	73	0.00
84	T	Benzyl Chloride	1.805	1.725	4.4	75	0.00
85	T	1,3-Dichlorobenzene	1.007	0.959	4.8	80	0.00
86	T	1,4-Dichlorobenzene	0.977	0.934	4.4	79	0.00
87	T	sec-Butylbenzene	2.519	2.380	5.5	79	0.00
88	T	p-Isopropyltoluene	2.033	1.902	6.4	78	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.726	6.9	78	0.00
90	T	1,2-Dichlorobenzene	0.939	0.881	6.2	79	0.00
91	T	d-Limonene	0.792	0.745	5.9	75	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.303	3.2	74	0.00
93	T	n-Undecane	1.035	0.761	26.5	64	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.145	22.5	66	0.00
95	T	Naphthalene	2.210	1.696	23.3	62	0.00
96	T	n-Dodecane	0.745	0.425	43.0#	52	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.237	21.8	67	0.00

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

LM 12/27/06

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603406

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: 12200602.D
Date Analyzed: 12/20/06
Time Analyzed: 09:52

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	394946	9.07	1727818	11.00	923179	15.82
	Upper Limit	552924	9.40	2418945	11.33	1292451	16.15
	Lower Limit	236968	8.74	1036691	10.67	553907	15.49
	Client Sample ID						
01	Method Blank	382760	9.04	1851876	10.98	954993	15.81
02	Lab Control Sample	359436	9.07	1620355	11.00	888887	15.82
03	Duplicate Lab Control Sample	371712	9.07	1705445	11.00	903165	15.82
04	WDI-VW-34-D-12-12-06	375271	9.05	1787922	10.98	935069	15.81
05	WDI-VW-34-I-12-12-06	377670	9.05	1765961	10.98	930731	15.81
06	WDI-VW-34-I-12-12-06 (Lab Duplicate)	376866	9.05	1774953	10.98	928703	15.81
07	WDI-VW-31-D-12-12-06	372905	9.05	1759825	10.98	937432	15.81
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

Data not evaluated

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

Verified by: RG Date: 12/27/06

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
16	12/4/06 21:37	12040616.D	P2603269-001 (1000ml)	[redacted]2.2, 3.5)	AB	10	
17	12/4/06 22:12	12040617.D	P2603269-001 Dil (100ml)	[redacted]2.2, 3.5)	AB	10	
18	12/4/06 22:53	12040618.D	P2603269-002 (1000ml)	[redacted]-1.9, 3.5)	AB	12	
19	12/4/06 23:29	12040619.D	P2603269-002 Dil (100ml)	[redacted]1.9, 3.5)	AB	12	
20	12/5/06 0:04	12040620.D	P2603269-003 (200ml)	[redacted]1.9, 3.5)	AB	13	
21	12/5/06 0:41	12040621.D	P2603269-004 (500ml)	[redacted].1, 3.5)	AB	14	Case file, Run higher
22	12/5/06 1:17	12040622.D	P2603253-002 Dil (100ml)	[redacted]2.4, 3.5)	AB	8	
23	12/5/06 1:53	12040623.D	P2603253-002 Dup Dil (100ml)	[redacted]2.4, 3.5)	AB	8	Passed as lab Dup
24	12/5/06 2:30	12040624.D	P2603244-001 Dil (100ml)	[redacted].2, 3.5)	AB	9	
25	12/5/06 3:06	12040625.D	P2603244-001 Dup Dil (100ml)	[redacted]3.2, 3.5)	AB	9	

1	12/5/06 8:02	12050601.D	25ng TO-15 CCV STD+ 2-Methylnaphthalene STD	S15-11130603/S15-11270605/S15-11280601	AB	1	Passed for TO-15
2	12/5/06 9:10	12050602.D	25ng 2-Methylnaphthalene STD	S15-11130603/S15-11280601	AB	15	Passed
3	12/5/06 10:18	12050603.D	TO-15 Method Blank (1000ml)	S15-11130603	LM	1	Passed
4	12/5/06 11:29	12050604.D	25ng TO-15 LCS STD	S15-11130603/S15-11140606	LM	2	Passed
5	12/5/06 12:17	12050605.D	25ng 2-Methylnaphthalene LCS STD	S15-11130603/S15-11280603	LM	7	Passed
6	12/5/06 13:28	12050606.D	P2603279-002 (1000ml)	[redacted]1.8,3.5)	LM	16	
7	12/5/06 14:21	12050607.D	P2603279-002 dup (1000ml)	[redacted]1.8,3.5)	LM	16	Passed as lab Dup
8	12/5/06 15:26	12050608.D	P2603279-001 (1000ml)	[redacted]8,3.5)	LM	11	
9	12/5/06 16:17	12050609.D	P2603269-003 DIL (10ml)	[redacted]1.9,3.5)	LM	1	
10	12/5/06 18:00	12050610.D	P2603269-004 (1000ml)	[redacted]0.1,3.5)	LM	14	
11	12/5/06 18:36	12050611.D	5ng CCV STD	S15-12050604(test can)	LM	1	
12	12/5/06 19:12	12050612.D	blank (200ml)	rinse	LM	1	

1	12/6/06 9:29	12060601.D	Blank(200ml)	S15-12050601	LM	1	
2	12/6/06 10:21	12060602.D	5ng TO-15 CCV STD	S15-12050601/S15-12050604	LM	1	Failed
3	12/6/06 12:13	12060603.D	25ng TO-15 CCV STD	S15-12050601/S15-11270605	LM	1	Failed
4	12/6/06 13:16	12060604.D	Blank(500ml)	S15-12050601	LM	1	Clean system.
5	12/6/06 14:54	12060605.D	Blank(200ml)	S15-12050601	LM	1	
6	12/6/06 15:30	12060606.D	25ng TO-15 BFB	S15-12050601	LM	1	Passed
7	12/6/06 16:06	12060607.D	0.5ng TO-15 ICAL STD	S15-12050601/S15-12050604	LM	1	
8	12/6/06 16:42	12060608.D	1ng TO-15 ICAL STD	S15-12050601/S15-12050604	LM	1	ICAL ok for all
9	12/6/06 17:17	12060609.D	5ng TO-15 ICAL STD	S15-12050601/S15-12050604	LM	1	compounds 0.5-100ng
10	12/6/06 17:53	12060610.D	25ng TO-15 ICAL STD	S15-12050601/S15-12050606	LM	1	
11	12/6/06 18:28	12060611.D	50ng TO-15 ICAL STD	S15-12050601/S15-12050606	LM	1	
12	12/6/06 19:04	12060612.D	100ng TO-15 ICAL STD	S15-12050601/S15-12050606	LM	1	
13	12/6/06 19:39	12060613.D	25ng TO-15 ICV STD	S15-12050601/S15-12050608	LM	2	Passed

LM 12/12/06

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	12/14/06 9:24	12140601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Trichlorotrifluoroethane [illegible]
2	12/14/06 10:07	12140602.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
3	12/14/06 11:20	12140603.D	TO-15 Method Blank (1000ml)	S15-12050601	LM	1	Passed
4	12/14/06 12:11	12140604.D	1ng TO-15 CCV Std	S15-12050601	LM	1	Passed
5	12/14/06 12:54	12140605.D	25ng TO-15 LCS STD	S15-12050601/S15-12050608	LM	2	Passed
6	12/14/06 13:30	12140606.D	25ng TO-15 LCSD STD	S15-12050601/S15-12050608	LM	2	Passed
7	12/14/06 14:06	12140607.D	P2603298-012 (0.70ml)	[redacted]1.6,10.0)	LM	2	
8	12/14/06 14:42	12140608.D	P2603298-013 (0.70ml)	[redacted].8,10.0)	LM	1	
9	12/14/06 15:19	12140609.D	P2603298-014 (10ml)	[redacted],10.2)	LM	1	
10	12/14/06 16:20	12140610.D	P2603371-010 (1000ml)	TRC WDI-IBM-49-12-0606 (-2.3,3.5)	LM	12	
11	12/14/06 17:03	12140611.D	P2603371-010 dup (1000ml)	TRC WDI-IBM-49-12-0606 (-2.3,3.5)	LM	12	
12	12/14/06 18:22	12140612.D	P2603371-011 (1000ml)	TRC WDI-IBM-21-12-06-06 (-3.6,3.6)	LM	5	
13	12/14/06 19:03	12140613.D	P2603389-001 (1000ml)	TRC WDI-VW-56-S-12-08-06 (-3.1,3.5)	LM	6	
14	12/14/06 19:44	12140614.D	P2603389-002 (1000ml)	TRC WDI-VW-56-S-12-08-06-SC (-3.3,3.5)	LM	7	
15	12/14/06 20:24	12140615.D	P2603389-003 (1000ml)	TRC WDI-VW-56-I-12-08-06 (-3.5,3.5)	LM	8	
16	12/14/06 21:05	12140616.D	P2603389-004 (1000ml)	TRC WDI-VW-56-D-12-08-06 (-3.2,3.5)	LM	9	
17	12/14/06 21:40	12140617.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	
18	12/14/06 22:16	12140618.D	P2603298-014 (400ml)	[redacted].1,10.2)	LM	4	
19	12/14/06 22:56	12140619.D	P2603396-001 (1000ml)	[redacted]3.7,3.5)	LM	13	
20	12/14/06 23:37	12140620.D	P2603396-003(1000ml)	[redacted]2.8,3.5)	LM	14	
21	12/15/06 0:17	12140621.D	P2603396-004 (1000ml)	[redacted]1.9,3.5)	LM	15	
22	12/15/06 0:58	12140622.D	P2603396-005 (1000ml)	[redacted]2.5,3.5)	LM	16	
23	12/15/06 1:39	12140623.D	P2603396-006 (1000ml)	[redacted]-2.6,3.5)	LM	10	
24	12/15/06 2:14	12140624.D	~~P2603396-006 (1000ml)~~	[redacted]	LM	12	

1	12/15/06 9:03	12150601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
2	12/15/06 10:15	12150602.D	TO-15 Method Blank (1000ml)	S15-12050601	LM	1	Passed
3	12/15/06 11:31	12150603.D	25ng TO-15 LCS Std	S15-12050601/S15-12050608	LM	2	Passed
4	12/15/06 12:13	12150604.D	25ng TO-15 LCSD Std	S15-12050601/S15-12050608	LM	2	Passed / Passed as Dup
5	12/15/06 12:50	12150605.D	1ng TO-15 CCV STD	S15-12050601/S15-12050605	LM	1	Passed
6	12/15/06 13:43	12150606.D	P2603371-009 DIL (100ml)	TRC WDI-IBM-3212-0606 (-2.5,3.6)	LM	11	Case file, Clearing CCV
7	12/15/06 14:23	12150607.D	P2603389-003 DIL (100ml)	TRC WDI-VW-56-I-12-08-06 (-5.5,3.5)	LM	8	Case file, Rerun.
8	12/15/06 15:32	12150608.D	P2603311-001 (10ml)	[redacted].3 (-5.5,3.5)	LM	1	
9	12/15/06 16:19	12150609.D	P2603406-001 (30ml)	TRC WDI-IBM-50-10-06 (-3.7,3.6)	LM	4	Case file, Rerun higher
10	12/15/06 17:07	12150610.D	P2603406-003 (1000ml)	TRC WDI-IBM-24-12-10-06 (-2.7,3.5)	LM	5	
11	12/15/06 17:52	12150611.D	P2603406-003 dup (1000ml)	TRC WDI-IBM-24-12-10-06 (-2.7,3.5)	LM	5	Passed as Dup
12	12/15/06 18:57	12150612.D	P2603311-001 (10ml)	[redacted](0.3,3.5)	LM	4	
13	12/15/06 19:33	12150613.D	P2603311-001 (10ml)	TRC WDI-IBM-50-12-10-06 (-3.2,3.5)	LM	4	Case file, Rerun
14	12/15/06 20:09	12150614.D	P2603406-002 (50ml)	TRC WDI-IBM-28-12-10-06 (-3.2,3.5)	LM	6	
15	12/15/06 20:45	12150615.D	P2603406-004 (100ml)	TRC WDI-IBM-24B-12-10-06 (-2.5,3.5)	LM	7	
16	12/15/06 21:21	12150616.D	P2603389-004 dil (100ml)	TRC WDI-VW-56-D-12-08-06 (-3.2,3.5)	LM	9	
17	12/15/06 21:56	12150617.D	25ng CCV	S15-12050601/S15/12050606	LM	1	CCV outside 12 hours run

3

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
18	12/15/06 22:32	12150618.D	Blank (100ml)	rinse	LM	1	
19	12/15/06 23:12	12150619.D	P2603413-015 (1000ml)	[redacted]2.0,3.0)	LM	11	
20	12/15/06 23:55	12150620.D	P2603413-015 dup (1000ml)	[redacted]-2.0,3.0)	LM	11	Passed as dup
21	12/16/06 0:36	12150621.D	P2603413-013 (1000ml)	[redacted]2.6,1.0)	LM	8	
22	12/16/06 1:17	12150622.D	P2603413-014 (1000ml)	[redacted]3.3,1.0)	LM	10	
23	12/16/06 1:59	12150623.D	P2603413-016 (1000ml)	[redacted]2.9,1.0)	LM	12	
24	12/16/06 2:40	12150624.D	P2603413-017 (1000ml)	[redacted]3.9,1.0)	LM	13	
25	12/16/06 3:22	12150625.D	P2603413-018 (1000ml)	[redacted]3.1,1.0)	LM	15	
26	12/16/06 4:02	12150626.D	P2603396-002 (1000ml)	[redacted](-2.8,3.5)	LM	14	
27	12/16/06 4:38	12150627.D	P2603311-001 (100ml)	[redacted](0.3,3.5)	LM	2	
28	12/16/06 5:14	12150628.D	blank(100ml)	rinse	LM	1	

	Date/T
1	12/19/0
2	12/19/0
3	12/19/0
4	12/19/0
5	12/19/0
6	12/19/0
7	12/19/0
8	12/19/0
9	12/19/0
10	12/19/0
11	12/19/0
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13	12/19/0
14	12/19/0
15	12/19/0
16	12/19/0
17	12/19/0
18	12/19/0
19	12/19/0
20	12/19/0
21	12/20/
22	12/20/
23	12/20
24	12/20

✓ 1	12/18/06 7:08	12180601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
2	12/18/06 8:28	12180602.D	TO-15 Method Blank (1000ml)	S15-12050601	LM	1	Passed
3	12/18/06 9:31	12180603.D	25ng TO-15 LCS STD	S15-12050601/S15-12050608	LM	10	Passed
4	12/18/06 10:42	12180604.D	25ng TO-15 LCSD STD	S15-12050601/S15-12050608	LM	10	Passed
✓ 5	12/18/06 11:30	12180605.D	1ng TO-15 CCV STD	S15-12050601/S15-12050604	LM	1	Passed
6	12/18/06 12:45	12180606.D	P2603371-009 Dil (100ml)	TRC WDI-IBM-32-12-06-06 (-2.5,3.6)	LM	11	
7	12/18/06 13:21	12180607.D	P2603389-004 Dil (100ml)	TRC WDI-VW-56-D-12-08-06 (-3.2,3.5)	LM	9	
8	12/18/06 14:22	12180608.D	P2603406-002 (1000ml)	TRC WDI-IBM-28-12-10-06 (-3.2,3.5)	LM	6	
9	12/18/06 15:18	12180609.D	P2603406-004 (1000ml)	TRC WDI-IBM-24B-12-10-06 (-2.5,3.5)	LM	7	
10	12/18/06 16:21	12180610.D	P2603406-005 (1000ml)	TRC WDI-IBM-03B-12-10-06 (-2.6,3.8)	LM	11	
11	12/18/06 17:21	12180611.D	P2603406-005 dup (1000ml)	TRC WDI-IBM-03B-12-10-06 (-2.6,3.8)	LM	11	Passed as dup
12	12/18/06 17:59	12180612.D	P2603389-003 dil (100ml)	TRC WDI-VW-56-I-12--0806 (-3.5,3.5)	LM	2	
✓ 13	12/18/06 18:48	12180613.D	25ng TO-15 CCV Std	S15-12050601/S15-12050606	LM	1	Passed
14	12/18/06 19:29	12180614.D	P2603399-001 (1000ml)	[redacted](-2.9,3.5)	LM	6	
15	12/18/06 20:10	12180615.D	P2603399-002 (1000ml)	[redacted](-2.6,3.6)	LM	7	
16	12/18/06 20:50	12180616.D	P2603399-003 (1000ml)	[redacted](-2.9,3.5)	LM	8	
17	12/18/06 21:31	12180617.D	P2603399-004 (1000ml)	[redacted](-2.3,3.6)	LM	9	
18	12/18/06 22:12	12180618.D	P2603400-001 (1000ml)	[redacted]2.5,3.6)	LM	12	
19	12/18/06 22:53	12180619.D	P2603400-002 (1000ml)	[redacted]2.7,3.5)	LM	13	
20	12/18/06 23:33	12180620.D	P2603400-003 (1000ml)	[redacted]-4.3,3.6)	LM	14	
21	12/19/06 0:14	12180621.D	P2603400-004 (1000ml)	[redacted]2.6,3.6)	LM	15	
22	12/19/06 0:55	12180622.D	P2603353-003 (1000ml)	[redacted]2.3,3.6)	LM	16	
23	12/19/06 1:31	12180623.D	P2603353-003 Dil (100ml)	[redacted]3,3.6)	LM	16	
24	12/19/06 2:07	12180624.D	blank (100ml)	rinse	LM	1	

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12	12/20
13	12/20
14	12/20
15	12/20
16	12/20

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	12/19/06 8:39	12190601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
2	12/19/06 9:35	12190602.D	TO-15 Method Blank (1000ml)	S15-12050601	LM	1	Passed
3	12/19/06 10:40	12190603.D	1ng TO-15 STD	S15-12190601/S15-12050604	LM	1	Passed
4	12/19/06 11:27	12190604.D	25ng TO-15 LCS STD	S15-12190601/S15-12050608	LM	10	Passed
5	12/19/06 12:33	12190605.D	25ng TO-15 LCSD STD	S15-12190601/S15-12050608	LM	10	Passed, Passed as Dup
6	12/19/06 13:09	12190606.D	P2603406-001 (250ml)	TRC WDI-IBM-50-12-10-06 (-3.7,3.6)	LM	4	
7	12/19/06 13:50	12190607.D	P2603406-006 (1000ml)	TRC WDI-IBM-50-12-10-06-SC (-2.8,3.5)	LM	2	
8	12/19/06 14:45	12190608.D	P2603406-007 (1000ml)	TRC WDI-VW-31-S-12-12-06 (-2.5,3.5)	LM	11	RPD for Benzene IS > 40%
9	12/19/06 15:39	12190609.D	P2603406-007 dup (1000ml)	TRC WDI-VW-31-S-12-12-06 (-2.5,3.5)	LM	11	Passed as Dup
10	12/19/06 16:38	12190610.D	P2603406-008 (1000ml)	TRC WDI-VW-31-D-12-12-06 (-3.6,3.5)	LM	2	See IS failed, carry to
11	12/19/06 17:30	12190611.D	P2603406-003 (1000ml)	TRC WDI-IBM-24-12-10-06 (-2.7,3.5)	LM	4	See IS failed, carry to
12	12/19/06 18:41	12190612.D	P2603406-012 (1000ml)	TRC WDI-VW-34-I-12-12-06 (-4.0,3.5)	LM	5	
13	12/19/06 19:22	12190613.D	P2603406-011 (1000ml)	TRC WDI-VW-3-S-12-12-06 (-4.0,3.5)	LM	6	
14	12/19/06 19:58	12190614.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	
15	12/19/06 20:39	12190615.D	P2603462-001 (1000ml)	[redacted] (-2.0,3.7)	LM	7	
16	12/19/06 21:16	12190616.D	P2603391-001 (300ml)	[redacted] (0.0,3.6)	LM	8	
17	12/19/06 21:56	12190617.D	P2603391-005 (1000ml)	[redacted] (-0.2,3.4)	LM	9	
18	12/19/06 22:37	12190618.D	P2603391-006 (1000ml)	[redacted] (-0.2,3.6)	LM	11	
19	12/19/06 23:18	12190619.D	P2603391-007 (1000ml)	[redacted] (-0.2,3.6)	LM	12	
20	12/19/06 23:58	12190620.D	P2603391-008 (1000ml)	[redacted] (-0.1,3.5)	LM	13	
21	12/20/06 0:39	12190621.D	P2603391-009 (1000ml)	[redacted] (0.0,3.5)	LM	14	
22	12/20/06 1:20	12190622.D	P2603391-010 (1000ml)	[redacted] (0.0,3.5)	LM	15	
23	12/20/06 1:55	12190623.D	P2603391-010 dil (100ml)	[redacted] (0.0,3.5)	LM	10	
24	12/20/06 2:31	12190624.D	P2603462-001 dil (100ml)	[redacted] (-2.0,3.7)	LM	7	

1	12/20/06 9:00	12200601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Failed
2	12/20/06 9:52	12200602.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Passed, 1,3 Butadiene low
3	12/20/06 10:55	12200603.D	TO-15 Method Blank (1000ml)	S15-12190601	LM	1	Passed
4	12/20/06 12:08	12200604.D	1ng TO-15 STD	S15-12190601/S15-12050604	LM	1	Passed
5	12/20/06 12:44	12200605.D	25ng TO-15 LCS STD	S15-12190601/S15-12050608	LM	10	Passed
6	12/20/06 13:20	12200606.D	25ng TO-15 LCSD STD	S15-12190601/S15-12050608	LM	10	Passed, Passed as Dup
7	12/20/06 14:16	12200607.D	P2603406-009 (1000ml)	TRC WDI-34-D-12-12-06 (-3.7,3.5)	LM	4	
8	12/20/06 15:17	12200608.D	P2603406-010 (1000ml)	TRC WDI-34-I-12-12-06 (-3.7,3.6)	LM	16	
9	12/20/06 16:13	12200609.D	P2603406-010 dup (1000ml)	TRC WDI-34-I-12-12-06 (-3.7,3.6)	LM	16	Passed as Dup
10	12/20/06 17:26	12200610.D	P2603406-008 (1000ml)	TRC WDI-VW-31-D-12-12-06 (-3.6,3.5)	LM	16	
11	12/20/06 18:37	12200611.D	P2603349-002 (1.0ml)	[redacted] (0.1,3.5)	LM	1	
12	12/20/06 19:18	12200612.D	P2603461-001 (1000ml)	TRC WDI-VW-35-S-12-12-06 (-3.3,3.6)	LM	6	
13	12/20/06 19:54	12200613.D	P2603461-002 (25ml)	TRC WDI-VW-35-D-12-12-06 (-2.5,3.6)	LM	7	
14	12/20/06 20:30	12200614.D	P2603461-003 (60ml)	TRC WDI-VW-35-I-12-12-06 (-2.6,3.6)	LM	8	
15	12/20/06 21:06	12200615.D	25ng TO-15 CCV Std	S15-12050601/S15-12150607	LM	1	Passed, VC was low
16	12/20/06 21:42	12200616.D	25ng TO-15 CCV Std	S15-12050601/S15-12050607	LM	5	

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
TO-15 (SIM)	Air	MB	Method Blank P061220-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603406

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061220-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: 12/20/06
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.

all ND

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603406

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: 12/10/06
Date Received: 12/12/06
Date Analyzed: 12/20/06

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	P061220-MB	**94**	80-120	**94**	80-120	**102**	80-120	
Lab Control Sample	P061220-LCS	**93**	80-120	**94**	80-120	**104**	80-120	
Duplicate Lab Control Sample	P061220-DLCS	**92**	80-120	**93**	80-120	**106**	80-120	
WDI-IBM-50-12-10-06	P2603406-001	**92**	80-120	**94**	80-120	**105**	80-120	
WDI-IBM-28-12-10-06	P2603406-002	**94**	80-120	**94**	80-120	**105**	80-120	
WDI-IBM-28-12-10-06	P2603406-002DUP	**94**	80-120	**93**	80-120	**104**	80-120	
WDI-IBM-24-12-10-06	P2603406-003	**93**	80-120	**94**	80-120	**101**	80-120	
WDI-IBM-24B-12-10-06	P2603406-004	**91**	80-120	**94**	80-120	**109**	80-120	
WDI-IBM-03B-12-10-06	P2603406-005	**92**	80-120	**93**	80-120	**100**	80-120	
WDI-IBM-50-12-10-06-SC	P2603406-006	**90**	80-120	**93**	80-120	**100**	80-120	

all OK

Verified By: RG Date: 12/28/06

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603406
CAS Sample ID: P061220-LCS, P061220-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: 12/20/06
Volume(s) Analyzed: NA

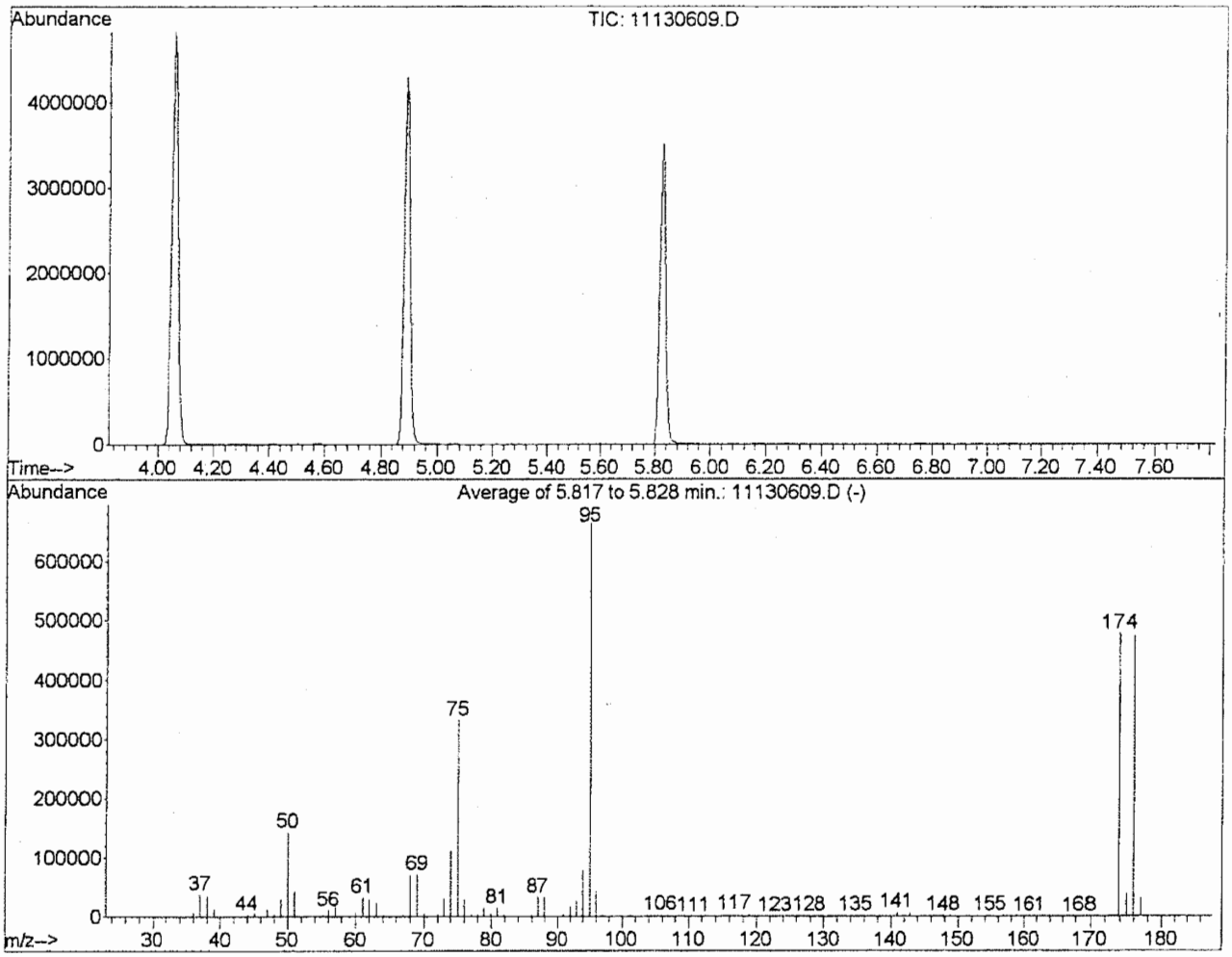
Compound	Spike Amt LCS/DLCS pg	Result LCS pg	Result DLCS pg	% Recovery LCS	% Recovery DLCS	CAS Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Vinyl Chloride	495	548	549	**111**	**111**	65-135	**0**	35	
1,2-Dibromoethane	520	557	544	**107**	**105**	65-135	**2**	35	

Verified By: RG Date: 12/28/06

03406VOA.RD1 - DLCS

BFB

Data File : J:\MS07\DATA\2006_11\13\11130609.D Vial: 2
Acq On : 13 Nov 2006 13:43 Operator: AB
Sample : 25ng BFB Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM



AutoFind: Scans 499, 500, 501; Background Corrected with Scan 491

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.5	142904	PASS
75	95	30	66	49.9	331776	PASS
95	95	100	100	100.0	664533	PASS
96	95	5	9	6.5	43317	PASS
173	174	0.00	2	0.3	1558	PASS
174	95	50	120	71.8	477162	PASS
175	174	4	9	7.8	36997	PASS
176	174	93	101	98.9	472149	PASS
177	176	5	9	6.4	30226	PASS

11130609.D X7111306.M Mon Nov 13 18:14:57 2006 MSD7

Response Factor Report MSD7

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
Response via : Initial Calibration

Calibration Files
10 =11130610.D 25 =11130611.D 100 =11130612.D 250 =11130613.D 500 =11130614.D
1000 =11130615.D 2500 =11130616.D 9999 =11130617.D = =

		Compound	10	25	100	250	500	1000	2500	9999	Avg	%RSD
1)	I	Bromochloromethan	ISTD									
2)	T	Dichlorodifluorom	3.777	3.516	2.855	3.006	3.081	2.885	2.830	2.714	3.083	12.06
3)	T	Chloromethane			1.028	0.990	0.982	0.928	0.897	0.873	0.950	6.33
4)	T	Vinyl Chloride	2.816	2.930	2.386	2.518	2.583	2.621	2.578	2.476	2.613	6.83
5)	T	Chloroethane	1.470	1.383	1.221	1.238	1.251	1.192	1.187	1.177	1.265	8.35
6)	T	Acetone			3.037	2.411	2.103	1.777	1.799	1.563	2.115	25.53
7)	T	1,1-Dichloroethen	1.419	1.322	1.205	1.273	1.291	1.239	1.249	1.250	1.281	5.14
8)	T	Methylene Chlorid			1.418	1.478	1.512	1.440	1.431	1.372	1.442	3.37
9)	T	Trichlorotrifluor	1.454	1.254	1.078	1.117	1.166	1.103	1.082	1.067	1.165	11.32
10)	T	trans-1,2-Dichlor	1.383	1.417	1.314	1.405	1.456	1.389	1.380	1.390	1.392	2.87
11)	T	1,1-Dichloroethan	3.088	2.143	2.714	2.850	2.898	2.246	2.198	2.319	2.557	14.50
12)	T	Methyl tert-Butyl	4.154	3.883	4.112	4.268	4.373	3.774	3.626	3.684	3.984	7.04
13)	T	cis-1,2-Dichloroe	1.469	1.434	1.299	1.426	1.500	1.389	1.400	1.408	1.416	4.23
14)	T	Chloroform			2.248	2.301	2.318	2.109	1.990	1.983	2.158	7.04
15)	S	1,2-Dichloroethan	2.161	2.192	2.159	2.176	2.118	2.101	2.028	1.965	2.112	3.74
16)	T	1,2-Dichloroethan	1.813	1.974	1.817	1.937	2.020	1.926	1.924	1.912	1.915	3.70
17)	T	1,1,1-Trichloroet	2.291	2.082	2.004	2.145	2.192	2.056	2.043	2.043	2.107	4.56
18)	T	Benzene			9.907	7.648	7.061	6.299	6.123	6.059	7.183	20.48
19)	T	Carbon Tetrachlor	1.682	1.352	1.540	1.627	1.704	1.581	1.605	1.656	1.593	6.98
20)	I	1,4-Difluorobenze	ISTD									
21)	T	1,2-Dichloropropa	0.337	0.295	0.282	0.293	0.308	0.293	0.295	0.296	0.300	5.49
22)	T	Trichloroethene	0.360	0.256	0.228	0.234	0.241	0.230	0.232	0.240	0.253	17.53
23)	T	1,4-Dioxane	0.232	0.211	0.164	0.169	0.174	0.171	0.174	0.188	0.185	12.93
24)	T	cis-1,3-Dichlorop	0.389	0.358	0.363	0.410	0.417	0.404	0.417	0.446	0.400	7.32
25)	T	1,1,2-Trichloroet	0.237	0.219	0.199	0.210	0.216	0.208	0.212	0.219	0.215	5.07
26)	S	Toluene-d8 (SS2)	1.147	1.137	1.153	1.147	1.143	1.151	1.163	1.154	1.149	0.67
27)	T	Toluene		1.361	1.110	1.131	1.138	1.094	1.102	1.149	1.155	8.06

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

Response Factor Report MSD7

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
Response via : Initial Calibration

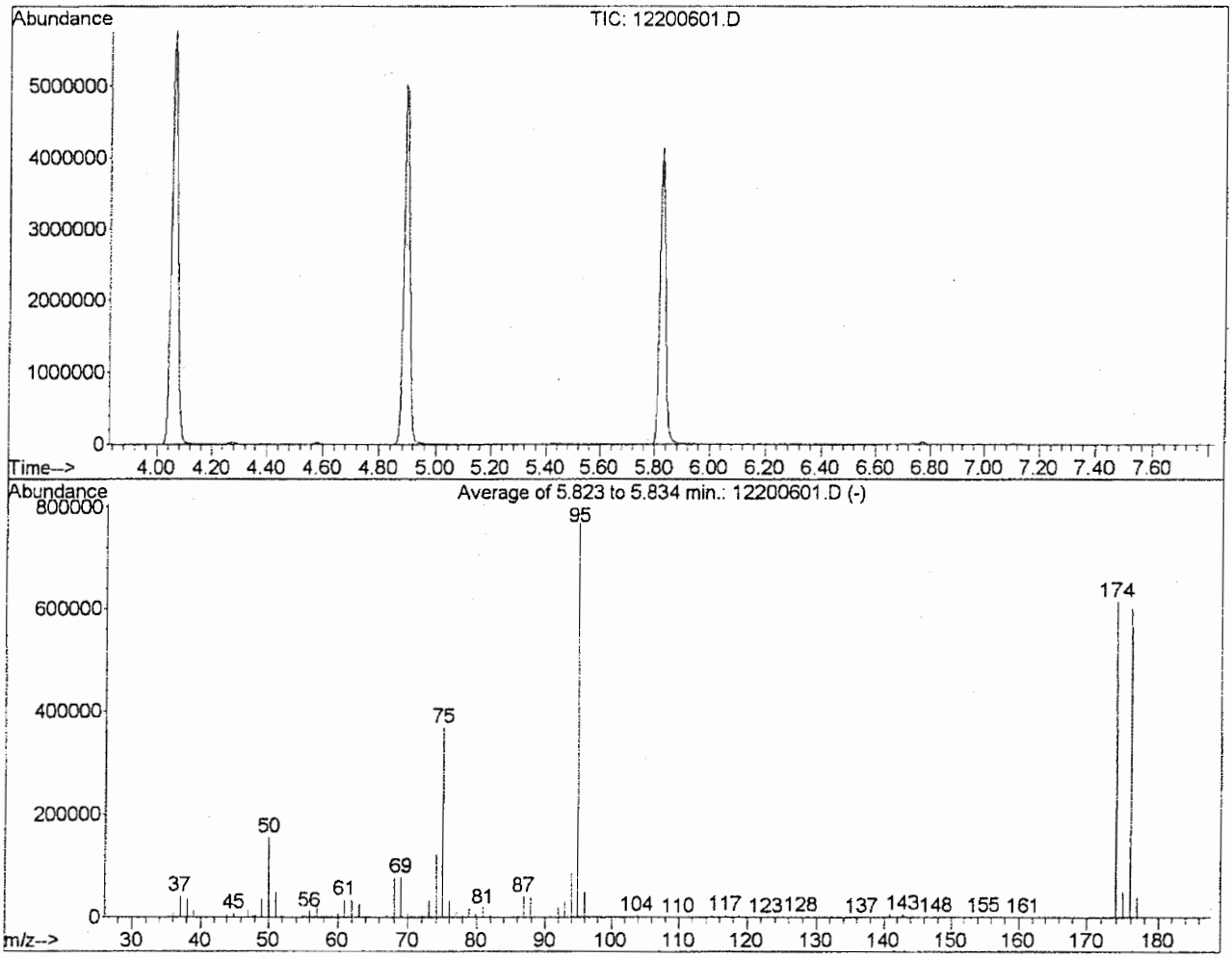
Calibration Files
10 =11130610.D 25 =11130611.D 100 =11130612.D 250 =11130613.D 500 =11130614.D
1000 =11130615.D 2500 =11130616.D 9999 =11130617.D = =

		Compound	10	25	100	250	500	1000	2500	9999	Avg	%RSD
28)	T	1,2-Dibromoethane	0.231	0.242	0.227	0.241	0.254	0.249	0.254	0.267	0.245	5.36
29)	T	Tetrachloroethene	0.258	0.236	0.226	0.241	0.247	0.237	0.239	0.245	0.241	3.84
30)	I	Chlorobenzene-d5	ISTD									
31)	T	Chlorobenzene	1.396	1.243	1.194	1.245	1.277	1.223	1.218	1.274	1.259	4.93
32)	T	Ethylbenzene	2.697	2.441	2.199	2.315	2.385	2.284	2.313	2.471	2.388	6.39
33)	T	m-&-p-Xylene	1.780	1.527	1.337	1.430	1.495	1.450	1.472	1.585	1.509	8.69
34)	T	o-Xylene	1.699	1.630	1.499	1.586	1.647	1.582	1.594	1.700	1.617	4.14
35)	T	1,1,2,2-Tetrachlo	0.817	0.764	0.696	0.747	0.786	0.740	0.757	0.793	0.763	4.90
36)	S	Bromofluorobenzen	0.669	0.671	0.665	0.668	0.678	0.678	0.691	0.688	0.676	1.44
37)	T	1,3-Dichlorobenze	0.910	0.903	0.832	0.916	0.971	0.931	0.962	1.058	0.935	6.97
38)	T	1,4-Dichlorobenze	1.055	0.962	0.864	0.885	0.939	0.905	0.937	1.012	0.945	6.79
39)	T	1,2-Dichlorobenze	0.880	0.854	0.783	0.859	0.911	0.871	0.891	0.969	0.877	6.01
40)	T	1,2,4-Trichlorobe	0.770	0.695	0.316	0.491	0.539	0.537	0.555	0.652	0.569	24.39
41)	T	Naphthalene			0.938	1.436	1.620	1.631	1.716	2.038	1.563	23.31
42)	T	Hexachlorobutadie				0.313	0.351	0.338	0.347	0.378	0.345	6.79

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

BFB

Data File : J:\MS07\DATA\2006_12\20\12200601.D Vial: 1
Acq On : 20 Dec 2006 9:20 Operator: AB
Sample : 25ng BFB Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM



AutoFind: Scans 500, 501, 502; Background Corrected with Scan 492

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.2	155093	PASS
75	95	30	66	48.1	369237	PASS
95	95	100	100	100.0	766976	PASS
96	95	5	9	6.5	49952	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	80.2	614954	PASS
175	174	4	9	8.1	49506	PASS
176	174	93	101	97.9	601920	PASS
177	176	5	9	6.3	38218	PASS

12200601.D X7111306.M Wed Dec 20 15:10:04 2006 MSD7

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2006_12\20\12200603.D Vial: 2
Acq On : 20 Dec 2006 10:12 Operator: AB
Sample : 500pg TO-15/SIM CCV std Inst : MSD7
Misc : S15-12050609/S15-12050610 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	97	0.01
2	T	Dichlorodifluoromethane	3.083	2.936	4.8	93	0.00
3	T	Chloromethane	0.950	0.946	0.4	93	0.00
4	T	Vinyl Chloride	2.613	2.614	-0.0	98	0.00
5	T	Chloroethane	1.265	1.246	1.5	97	0.00
6	T	Acetone	2.115	2.643	-25.0	122	0.00
7	T	1,1-Dichloroethene	1.281	1.296	-1.2	97	0.00
8	T	Methylene Chloride	1.442	1.463	-1.5	94	0.01
9	T	Trichlorotrifluoroethane	1.165	1.137	2.4	95	0.00
10	T	trans-1,2-Dichloroethene	1.392	1.387	0.4	92	0.01
11	T	1,1-Dichloroethane	2.557	2.385	6.7	80	0.00
12	T	Methyl tert-Butyl Ether	3.984	4.296	-7.8	95	0.00
13	T	cis-1,2-Dichloroethene	1.416	1.416	0.0	92	0.00
14	T	Chloroform	2.158	2.234	-3.5	94	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	2.112	1.980	6.3	91	0.00
16	T	1,2-Dichloroethane	1.915	1.881	1.8	90	0.00
17	T	1,1,1-Trichloroethane	2.107	2.097	0.5	93	0.00
18	T	Benzene	7.183	7.936	-10.5	109	0.00
19	T	Carbon Tetrachloride	1.593	1.646	-3.3	94	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	97	0.00
21	T	1,2-Dichloropropane	0.300	0.290	3.3	91	0.00
22	T	Trichloroethene	0.253	0.238	5.9	95	0.00
23	T	1,4-Dioxane	0.185	0.183	1.1	102	0.00
24	T	cis-1,3-Dichloropropene	0.400	0.404	-1.0	94	0.00
25	T	1,1,2-Trichloroethane	0.215	0.209	2.8	93	0.00
26	S	Toluene-d8 (SS2)	1.149	1.061	7.7	90	0.00
27	T	Toluene	1.155	1.119	3.1	95	0.00
28	T	1,2-Dibromoethane	0.245	0.247	-0.8	94	0.00
29	T	Tetrachloroethene	0.241	0.244	-1.2	96	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	96	0.00
31	T	Chlorobenzene	1.259	1.277	-1.4	96	0.00
32	T	Ethylbenzene	2.388	2.357	1.3	95	0.00
33	T	m-&-p-Xylene	1.509	1.463	3.0	94	0.00
34	T	o-Xylene	1.617	1.623	-0.4	94	0.00
35	T	1,1,2,2-Tetrachloroethane	0.763	0.762	0.1	93	0.00
36	S	Bromofluorobenzene (SS3)	0.676	0.705	-4.3	100	0.00
37	T	1,3-Dichlorobenzene	0.935	0.984	-5.2	97	0.00
38	T	1,4-Dichlorobenzene	0.945	0.957	-1.3	98	0.00
39	T	1,2-Dichlorobenzene	0.877	0.922	-5.1	97	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2006_12\20\12200603.D Vial: 2
Acq On : 20 Dec 2006 10:12 Operator: AB
Sample : 500pg TO-15/SIM CCV std Inst : MSD7
Misc : S15-12050609/S15-12050610 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	0.569	0.584	-2.6	104	0.00
41	T	Naphthalene	1.563	1.842	-17.9	109	0.00
42	T	Hexachlorobutadiene	0.345	0.389	-12.8	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
12200603.D X7111306.M Wed Dec 20 15:10:42 2006 MSD7 Page 2

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2006_12\20\12200607.D Vial: 2
Acq On : 20 Dec 2006 12:20 Operator: AB
Sample : 25pg CRQL std Inst : MSD7
Misc : S15-12050609/S15-12050611 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	99	0.01
2	T	Dichlorodifluoromethane	3.083	3.267	-6.0	92	0.00
3	T	Chloromethane	0.950	1.559	-64.1#	0#	0.00
4	T	Vinyl Chloride	2.613	2.567	1.8	86	0.01
5	T	Chloroethane	1.265	1.219	3.6	87	0.00
6	T	Acetone	2.115	57.070	-2598.3#	0#	0.00
7	T	1,1-Dichloroethene	1.281	1.232	3.8	92	0.00
8	T	Methylene Chloride	1.442	4.518	-213.3#	0#	0.02
9	T	Trichlorotrifluoroethane	1.165	1.246	-7.0	98	0.00
10	T	trans-1,2-Dichloroethene	1.392	1.269	8.8	88	0.02
11	T	1,1-Dichloroethane	2.557	2.140	16.3	98	0.00
12	T	Methyl tert-Butyl Ether	3.984	4.160	-4.4	106	0.06
13	T	cis-1,2-Dichloroethene	1.416	1.323	6.6	91	0.02
14	T	Chloroform	2.158	3.329	-54.3#	0#	0.01
15	S	1,2-Dichloroethane-d4 (SS1)	2.112	1.983	6.1	89	0.00
16	T	1,2-Dichloroethane	1.915	1.690	11.7	84	0.01
17	T	1,1,1-Trichloroethane	2.107	2.026	3.8	96	0.00
18	T	Benzene	7.183	39.310	-447.3#	0#	0.00
19	T	Carbon Tetrachloride	1.593	1.496	6.1	109	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	94	0.00
21	T	1,2-Dichloropropane	0.300	0.287	4.3	92	0.01
22	T	Trichloroethene	0.253	0.273	-7.9	101	0.01
23	T	1,4-Dioxane	0.185	0.002	98.9#	1#	-0.06
24	T	cis-1,3-Dichloropropene	0.400	0.352	12.0	93	0.03
25	T	1,1,2-Trichloroethane	0.215	0.188	12.6	81	0.02
26	S	Toluene-d8 (SS2)	1.149	1.069	7.0	89	0.00
27	T	Toluene	1.155	1.436	-24.3	100	0.00
28	T	1,2-Dibromoethane	0.245	0.212	13.5	83	0.04
29	T	Tetrachloroethene	0.241	0.236	2.1	95	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	94	0.00
31	T	Chlorobenzene	1.259	1.470	-16.8	111	0.01
32	T	Ethylbenzene	2.388	2.401	-0.5	92	0.01
33	T	m-&-p-Xylene	1.509	1.515	-0.4	93	0.02
34	T	o-Xylene	1.617	1.604	0.8	92	0.01
35	T	1,1,2,2-Tetrachloroethane	0.763	0.765	-0.3	94	0.02
36	S	Bromofluorobenzene (SS3)	0.676	0.694	-2.7	97	0.00
37	T	1,3-Dichlorobenzene	0.935	0.975	-4.3	101	0.02
38	T	1,4-Dichlorobenzene	0.945	0.894	5.4	87	0.01
39	T	1,2-Dichlorobenzene	0.877	0.949	-8.2	104	0.01

(#) = Out of Range

Data File : J:\MS07\DATA\2006_12\20\12200607.D Vial: 2
Acq On : 20 Dec 2006 12:20 Operator: AB
Sample : 25pg CRQL std Inst : MSD7
Misc : S15-12050609/S15-12050611 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	0.569	0.784	-37.8#	106	0.02
41	T	Naphthalene	1.563	3.178	-103.3#	0#	0.02
42	T	Hexachlorobutadiene	0.345	0.547	-58.6#	0#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
12200607.D X7111306.M Wed Dec 20 15:13:50 2006 MSD7 Page 2

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2006_12\20\12200620.D Vial: 2
Acq On : 20 Dec 2006 19:18 Operator: AB
Sample : 500pg TO-15/SIM CCV std Inst : MSD7
Misc : S15-12050609/S15-12050610 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	113	0.01
2	T	Dichlorodifluoromethane	3.083	2.745	11.0	101	0.00
3	T	Chloromethane	0.950	0.883	7.1	102	0.00
4	T	Vinyl Chloride	2.613	2.516	3.7	110	0.00
5	T	Chloroethane	1.265	1.239	2.1	112	0.00
6	T	Acetone	2.115	2.503	-18.3	134	0.00
7	T	1,1-Dichloroethene	1.281	1.257	1.9	110	0.00
8	T	Methylene Chloride	1.442	1.396	3.2	104	0.00
9	T	Trichlorotrifluoroethane	1.165	1.120	3.9	108	0.00
10	T	trans-1,2-Dichloroethene	1.392	1.373	1.4	107	0.00
11	T	1,1-Dichloroethane	2.557	2.274	11.1	89	0.00
12	T	Methyl tert-Butyl Ether	3.984	4.190	-5.2	108	0.00
13	T	cis-1,2-Dichloroethene	1.416	1.390	1.8	105	0.00
14	T	Chloroform	2.158	1.994	7.6	97	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	2.112	1.866	11.6	100	0.00
16	T	1,2-Dichloroethane	1.915	1.750	8.6	98	0.00
17	T	1,1,1-Trichloroethane	2.107	2.015	4.4	104	0.00
18	T	Benzene	7.183	7.121	0.9	114	0.00
19	T	Carbon Tetrachloride	1.593	1.553	2.5	103	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	112	0.00
21	T	1,2-Dichloropropane	0.300	0.284	5.3	103	0.00
22	T	Trichloroethene	0.253	0.239	5.5	111	0.00
23	T	1,4-Dioxane	0.185	0.175	5.4	113	0.00
24	T	cis-1,3-Dichloropropene	0.400	0.397	0.8	107	0.00
25	T	1,1,2-Trichloroethane	0.215	0.199	7.4	103	0.00
26	S	Toluene-d8 (SS2)	1.149	1.069	7.0	105	0.00
27	T	Toluene	1.155	1.116	3.4	110	0.00
28	T	1,2-Dibromoethane	0.245	0.243	0.8	107	0.00
29	T	Tetrachloroethene	0.241	0.247	-2.5	112	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	109	0.00
31	T	Chlorobenzene	1.259	1.290	-2.5	110	0.00
32	T	Ethylbenzene	2.388	2.366	0.9	108	0.00
33	T	m-&-p-Xylene	1.509	1.470	2.6	107	0.00
34	T	o-Xylene	1.617	1.633	-1.0	108	0.00
35	T	1,1,2,2-Tetrachloroethane	0.763	0.756	0.9	105	0.00
36	S	Bromofluorobenzene (SS3)	0.676	0.708	-4.7	114	0.00
37	T	1,3-Dichlorobenzene	0.935	0.983	-5.1	111	0.00
38	T	1,4-Dichlorobenzene	0.945	0.966	-2.2	112	0.00
39	T	1,2-Dichlorobenzene	0.877	0.914	-4.2	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2006_12\20\12200620.D Vial: 2
Acq On : 20 Dec 2006 19:18 Operator: AB
Sample : 500pg TO-15/SIM CCV std Inst : MSD7
Misc : S15-12050609/S15-12050610 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	0.569	0.539	5.3	109	0.00
41	T	Naphthalene	1.563	1.693	-8.3	114	0.00
42	T	Hexachlorobutadiene	0.345	0.345	0.0	107	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603406

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: 12200603.D
Date Analyzed: 12/20/06
Time Analyzed: 10:12

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	34183	4.95	188903	6.26	97708	9.85
	Upper Limit	47856	5.28	264464	6.59	136791	10.18
	Lower Limit	20510	4.62	113342	5.93	58625	9.52
	Client Sample ID						
01	Method Blank	38272	4.95	220629	6.27	112610	9.85
02	Lab Control Sample	33682	4.94	187921	6.26	98738	9.84
03	Duplicate Lab Control Sample	34090	4.95	187578	6.26	96829	9.85
04	WDI-IBM-24-12-10-06	34674	4.95	188412	6.26	99212	9.85
05	WDI-IBM-28-12-10-06	34145	4.95	187506	6.26	96178	9.85
06	WDI-IBM-28-12-10-06 (Lab Duplicate)	35552	4.95	194456	6.27	100428	9.85
07	WDI-IBM-50-12-10-06	38793	4.95	216386	6.26	116001	9.85
08	WDI-IBM-24B-12-10-06	39111	4.95	214943	6.26	110356	9.85
09	WDI-IBM-03B-12-10-06	39153	4.95	218028	6.26	117802	9.85
10	WDI-IBM-50-12-10-06-SC	40020	4.95	222257	6.26	120274	9.85
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: RG Date: 12/28/06

Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
12/19/06 20:45	12190619.D	P2603412-019 (1000ml)	[redacted]-3.6, 3.6)	AB	9	
12/19/06 21:17	12190620.D	P2603412-021 (1000ml)	[redacted]0.3, 3.6)	AB	10	
12/19/06 21:49	12190621.D	P2603412-022 (1000ml)	[redacted]-2.6, 3.6)	AB	11	
12/19/06 22:22	12190622.D	P2603412-023 (1000ml)	[redacted]1.8, 3.5)	AB	12	
12/19/06 22:54	12190623.D	P2603412-025 (1000ml)	[redacted]0.3, 3.5)	AB	13	
12/19/06 23:28	12190624.D	P2603412-027 (1000ml)	[redacted]0.7, 3.5)	AB	14	
12/19/06 23:56	12190625.D	P2603412-026 (100ml)	[redacted]2.6, 3.5)	AB	16	
12/20/06 0:24	12190626.D	P2603412-026 dil (20ml)	[redacted]2.6, 3.5)	AB	16	
12/20/06 0:52	12190627.D	Blank (100ml)		AB	2	
✓ 12/20/06 9:20	12200601.D	25ng BFB		AB	1	PASSED
12/20/06 9:43	12200602.D	Blank (100ml)		AB	2	
✓ 12/20/06 10:12	12200603.D	500pg TO-15/SIM CCV std	S15-12050609/S15-12050610	AB	2	PASSED
12/20/06 10:50	12200604.D	TO-15/SIM Method Blank (1000ml)	S15-12050609	AB	2	PASSED
12/20/06 11:21	12200605.D	500pg TO-15/SIM LCS	S15-12050609/S15-12050610	AB	4	PASSED
12/20/06 11:49	12200606.D	500pg TO-15/SIM LCS Dup	S15-12050609/S15-12050610	AB	4	PASSED
✓ 12/20/06 12:20	12200607.D	25pg CRQL std	S15-12050609/S15-12050611	AB	2	PASSED MRL check
12/20/06 13:20	12200608.D	P2603406-003 (1000ml)	TRC WDI-IBM-24-12-10-06 (-2.7, 3.5)(-1.7,2.4)	AB	5	
12/20/06 13:52	12200609.D	P2603406-002 (1000ml)	TRC WDI-IBM-28-12-10-06 (-3.2, 3.6)	AB	6	
12/20/06 14:29	12200610.D	P2603406-002 Dup (1000ml)	TRC WDI-IBM-28-12-10-06 (-3.2, 3.6)	AB	6	PASSED AS DUP
12/20/06 14:57	12200611.D	P2603406-001 (100ml)	TRC WDI-IBM-50-12-10-06 (-3.7, 3.6)	AB	7	CASEFILE: RL higher Vol
12/20/06 15:24	12200612.D	P2603406-004 (200ml)	TRC WDI-IBM-50-12-10-06 (-3.7, 3.6)	AB	8	
12/20/06 15:52	12200613.D	P2603406-005 (100ml)	TRC WDI-IBM-50-12-10-06 (-3.7, 3.6)	AB	9	
12/20/06 16:19	12200614.D	P2603406-006 (100ml)	TRC WDI-IBM-50-12-10-06 (-3.7, 3.6)	AB	10	
12/20/06 16:57	12200615.D	P2603412-026 (500ml)	[redacted]2.6, 3.5)	AB	16	
12/20/06 17:25	12200616.D	P2603406-001 (250ml)	TRC WDI-IBM-50-12-10-06 (-3.7, 3.6)	AB	7	
12/20/06 17:53	12200617.D	P2603406-004 (500ml)	TRC WDI-IBM-~~50~~ 24B 12-10-06 ~~(-3.7, 3.6)~~ (-2.6, 3.5)	AB	8	
12/20/06 18:21	12200618.D	P2603406-005 (250ml)	TRC WDI-IBM-~~50~~ 8B 12-10-06 ~~(-3.7, 3.6)~~ (-2.6, 3.5)	AB	9	
12/20/06 18:50	12200619.D	P2603406-006 (250ml)	TRC WDI-IBM-50-12-10-06 ~~(-3.7, 3.6)~~ (-2.6, 3.5)	AB	10	
✓ 12/20/06 19:18	12200620.D	500pg TO-15/SIM CCV std	S15-12050609/S15-12050610	AB	2	PASSED; TRC CLOSING CCV

4. SDG P2603461

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

January 12, 2007

Mr. Yasser Fahmy
TRC
21 Technology Drive
Irvine, CA 92618

RE: P2603461
WDI

Dear Mr. Fahmy:

Enclosed are the results of the sample(s) submitted to our laboratory on December 15, 2006. For your reference, these analyses have been assigned our service request number P2603461.

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 119 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

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

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

March 12, 2007

Mr. Troy Gill
TRC
21 Technology Drive
Irvine, CA 92618

Re: CAS Job File P2603461

Dear Mr. Gill:

Your CAS report number P2603461 has been revised. Pursuant your request, the case narrative has been revised to include a statement regarding the mid point standards meeting criteria. The applicable pages have been included with an "R" following the page number in the bottom right corner as an indication that it is a revised page.

Please retain this letter for your records and either return the original pages to CAS/Simi Valley or properly discard. Please contact me at (805) 526-7161 if you have any questions.

Regards,

Kate Aguilera

Kate Aguilera
Project Manager

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

LABORATORY REPORT

Client:	TRC	Date of Report:	01/12/07
		Date of Revision:	**03/12/07**
Address:	21 Technology Drive	Date Received:	12/15/06
	Irvine, CA 92618	CAS Project No:	P2603461
Contact:	Mr. Yasser Fahmy	Purchase Order:	Verbal

Client Project ID: WDI

Ten (10) Stainless Steel Summa Canisters labeled:

"WDI-VW-35-S-12-12-06" "WDI-VW-35-D-12-12-06" "WDI-VW-58-I-12-14-06"
"WDI-VW-58-S-12-14-06" "WDI-VW-58-S-12-14-06-SC" "WDI-VW-58-D-12-14-06"
"WDI-VW-39-S-12-14-06" "WDI-VW-39-D-12-14-06" "WDI-VW-38-S-12-14-06"
"WDI-VW-38-D-12-14-06"

The samples were received at the laboratory under chain of custody on December 15, 2006. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Methane and Total Gaseous Non-Methane Organics as Methane Analysis

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

The mid point standard meets the percent difference criteria of 15%.

Fixed Gases Analysis

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

The mid point standard meets the percent difference criteria of 10%.

Reviewed and Approved:

for: Liliana Marghitoiu
Analytical Chemist
Air Quality Laboratory

Reviewed and Approved:

Wade Henton
GC-VOA Team Leader
Air Quality Laboratory

2R

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

CAS Project No: P2603461

Volatile Organic Compound Analysis

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

Vinyl Chloride biased low on closing CCV from 12/20/06 no hits for this compound were found in any analyzed samples from this job.

The results of analyses are given on the attached data sheets. 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.
Sample Acceptance Check Form

Client: TRC Work order: P2603461

Project: WDI

Sample(s) received on: 12/15/06 Date opened: 12/15/06 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
P2603461-001			NA	
P2603461-002			NA	
P2603461-003			NA	
P2603461-004			NA	
P2603461-005			NA	
P2603461-006			NA	
P2603461-007			NA	
P2603461-008			NA	
P2603461-009			NA	
P2603461-010			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. 92603461

CAS Contact

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

Project Name: WDI

Project Number

Project Manager: YASSER FAHMY

P.O. # / Billing Information

Phone: (949) 727-7336 Fax: (949) 753-0111

Email Address for Result Reporting: YFAHMY@TRCSOLUTIONS.COM

Sampler (Print & Sign): STEVEN CRAWFORD Steven Crawford

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume	TO-15	EPA 25c MODIFIED (TOTAL METHANE ORGANIC CARBON)	EPA 3c MODIFIED (METHANE)		Comments e.g. Actual Preservative or specific instructions
WDI-VW-35-S-12-12-06	1 -6.7	12-12-06	1517	AIR	SC00858	6V-.5-062	6L	X	X	X		
WDI-VW-35-D-12-12-06	2 -5.1	12-12-06	1517	AIR	SC00833	6V-.5-033	6L	X	X	X		
WDI-VW-58-I-12-14-06	3 -5.3	12-14-06	0930	AIR	SC00911	6V-.5-033	6L	X	X	X		
WDI-VW-58-S-12-14-06	4 -4.7	12-14-06	0930	AIR	SC00347	6V-.5-047	6L	X	X	X		
WDI-VW-58-S-12-14-06-SC	5 -6.3	12-14-06	0930	AIR	SC00520	6V-.5-062	6L	X	X	X		
WDI-VW-58-D-12-14-06	6 -5.7	12-14-06	0930	AIR	SC00025	6V-.5-087	6L	X	X	X		
WDI-VW-39-S-12-14-06	7 -6.8	12-14-06	1122	AIR	SC00127	6V-.5-080	6L	X	X	X		
WDI-VW-39-D-12-14-06	8 -7.1	12-14-06	1122	AIR	SC00113	6V-.5-087	6L	X	X	X		
WDI-VW-38-S-12-14-06	9 -5.1	12-14-06	1240	AIR	SC00624	6V-.5-047	6L	X	X	X		
WDI-VW-38-D-12-14-06	10 -5.7	12-14-06	1240	AIR	SC00909	6V-.5-033	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	12/15/06	1405	[signature]	12/15/06	1405
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank 10.748 10.749
Temperature °C

Organic Analyses Support Documentation

Veridian Project Name: WDI-TRC
Sample Collection Dates: 12/14/2006
Project Manager: Yasser Fahmy - TRC
Laboratory: Columbia Analytical Servies, Inc.

Reviewed By: T.A. Young
Approved By: W.G. Kay
Completion Date: 3/15/07

Deliverables:
- CLP ☐
- Tier III ☒
- Tier IV ☐
- Limited ☐
- Other

SDG*: **P2603461**

The following table indicates criteria which were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail Check if Yes or Footnote Letter for Comments Below			Problems Identified Check if Yes or Footnote Number for Comments Below			Support Documentation Attachments Check if Yes or Identify Attachment No.		
	Method 3C	Method 25C	Method TO-15	Method 3C	Method 25C	Method TO-15	Method 3C	Method 25C	Method TO-15
Holding Times	✓	✓	✓				✓	✓	✓
Blank Analysis Results	✓	✓	✓				✓	✓	✓
Surrogate Spike Results			✓						✓
Blank Spike Results		✓	✓					✓	✓
Laboratory Duplicate Results	✓	✓	✓				✓	✓	✓
BFB Mass Tuning			✓						✓
Initial Calibrations	✓	✓	✓				✓	✓	✓
Continuing Calibrations	✓	✓	✓				✓	✓	✓
Surrogate Retention Time Shifts			✓						✓
Internal Standards Performance			✓						✓
Analytical Sequence			✓						✓
Other									

Comments: Sample: WDI-VW-38-D-12-14-06

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
3C	Air	MB	Method Blank P061228-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603461

Veridian Environmental, Inc.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061228-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/28/06
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

ALL ND

Verified By: MJ Date: 1/3/07

03461SVG.RD1 - MBlank

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061228-LCS

Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/28/06
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Hydrogen	40,100	40,400	**101**	90-110	
Oxygen + Argon *	50,000	52,600	**105**	90-110	
Nitrogen	50,500	51,400	**102**	90-110	
Carbon Monoxide	50,100	53,500	**107**	90-110	
Carbon Dioxide	50,400	54,000	**107**	90-110	

Verified By: MJ Date: 1/3/07

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

WO 8/22/06

#) = Out of Range

ZW 12/28/06

COLUMBIA ANALYTICAL INC.

EPA 3C GC/TCD Analysis for Fixed Gases

Client & PAI Job# : TRC P2603461
Analyst : WHH
Sample amount : ~100uL

Printed : 12/28/06
Instrument : GC #1 / TCD #1
Date analyzed : 12/28/06

Sample Result

Sample ID	Hydrogen	O2/Ar	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	Pi1	Pf1	Pi2	Pf2
STD-50000ppm	39385	52937	51608	53451	43371	54087				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	1.8%	5.9%	2.1%	6.8%	8.3%	7.4%		✓		
MB	0	0	0	0	0	0				
LAB AIR	0	225687	807069	0	0	431				
3461-001	0	80640	463164	0	0	36841	-3.3	3.6		
3461-002	0	41416	571186	0	0	89506	-2.5	3.6		
3461-003	0	44836	621156	0	0	103665	-2.6	3.6		
3461-004	0	98806	612321	0	0	39803	-2.3	3.6		
3461-005	0	93196	579489	0	0	37970	-3.1	3.7		
3461-006	0	124865	464121	0	0	6386	-2.8	3.6		
3461-007	0	24761	521922	0	0	56808	-3.3	3.8		
3461-008	0	62754	489006	0	0	36909	-3.5	3.5		
3461-009	0	79324	505760	0	0	49299	-2.5	3.7		
3461-010	0	7716	571425	0	885	70844	-2.8	4.4		
LCS 50000ppm S14-12	40385	52638	51439	53525	43033	54008				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	0.7%	5.3%	1.8%	6.9%	7.4%	7.2%				
3461-002 dup	0	41930	577388	0	0	90138	-2.5	3.6		
STD 50000ppm S14-09	38841	50869	49434	51751	41985	52142				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	3.1%	1.8%	2.2%	3.4%	4.8%	3.5%		✓		

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	225687	807069	0	0	431	103.3	1.00
3461-001	0	129448	743501	0	0	59140	93.2	1.61
3461-002	0	62123	856779	0	0	134259	105.3	1.50
3461-003	0	67810	939434	0	0	156783	116.4	1.51
3461-004	0	145818	903668	0	0	58741	110.8	1.48
3461-005	0	147827	919189	0	0	60228	112.7	1.59
3461-006	0	192019	713733	0	0	9820	91.6	1.54
3461-007	0	40182	846978	0	0	92189	97.9	1.62
3461-008	0	101976	794635	0	0	59977	95.7	1.63
3461-009	0	119636	762786	0	0	74353	95.7	1.51
3461-010	0	12384	917161	0	1420	113707	104.5	1.61
LCS 50000ppm S14-12	40385	52638	51439	53525	43033	54008	29.5	1.00
3461-002 dup	0	62896	866082	0	0	135206	106.4	1.50

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	39385	52937	51608	53451	43371	54087	
MB	ND	ND	ND	ND	ND	ND	
LAB AIR	ND	218416	781067	ND	ND	418	99.99
3461-001	ND	138866	797592	ND	ND	63442	99.99
3461-002	ND	58982	813449	ND	ND	127469	99.99
3461-003	ND	58249	806974	ND	ND	134677	99.99
3461-004	ND	131565	815336	ND	ND	52999	99.99
3461-005	ND	131127	815349	ND	ND	53424	99.99
3461-006	ND	209704	779471	ND	ND	10724	99.99
3461-007	ND	41025	864752	ND	ND	94123	99.99
3461-008	ND	106593	830614	ND	ND	62693	99.99
3461-009	ND	125029	797167	ND	ND	77704	99.99
3461-010	ND	11853	877854	ND	1359	108834	99.99
LCS 50000ppm S14-12	136872	178400	174335	181406	145845	183041	99.99
3461-002 dup	ND	59096	813765	ND	ND	127039	99.99

Injection Log

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

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	08210601.d	10.	Test		21 Aug 106 12::5
2	4	08210602.d	10.	Test		21 Aug 106 13::5
3	4	08210603.d	10.	MB		21 Aug 106 13::0
4	4	08210604.d	10.	test		21 Aug 106 12::1
5	4	08210605.d	10.	STD 1 S14-03260601 (loop 0.17)		21 Aug 106 12::3
6	4	08210606.d	10.	STD 2 S14-04120602 (loop 0.17)		21 Aug 106 12::1
7	5	08210607.d	10.	STD 3 S14-04120602 (loop 1.00)		21 Aug 106 12::3
8	5	08210608.d	10.	STD 4 S14-04120602 (loop 10.47)		21 Aug 106 12::4
9	5	08210609.d	10.	STD 5 S14-0~~6~~4120602 (loop 18.0)		21 Aug 106 12::5
10	5	08210610.d	10.	lab air	[illegible]	21 Aug 106 12::1
11	5	08210611.d	10.	icv		21 Aug 106 12::2
12	5	08210612.d	10.	ICV S14-07110501		21 Aug 106 12::5
13	5	08210613.d	10.	blank		21 Aug 106 12::1

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
25	Air	MB	Method Blank P061228-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603461

Veridian Environmental, Inc.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061228-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: 12/28/06
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.

all ND

Verified By: MJ Date: 1/3/07

03461SVG.RD2 -MBlank

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061228-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: 12/28/06
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Methane	80.1	73.9	92	90-110	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	101	105	104	90-110	

Verified By: MJ Date: 1/3/07

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

PERFORMANCE ANALYTICAL INC.

ZW 12/29/06

EPA 25C TCA/FID Analysis for TGNMO

Client & PAI Job# : TRC P2603461
Analyst : WHH
Sample amount : 500uL / 68uL

Printed : 12/29/06
Instrument : GC #1 / FID #1
Date analyzed : 12/28/06

Sample Results (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGNMO-2	Pi1	Pf1	Pi2	Pf2
STD 345ppm S14-040506	56.0	53.8	53.3	320.1					
ACTUAL	57.9	57.5	57.9	345.0					
% DIFF.	3.3%	6.5%	8.0%	7.2%					
MB NL	0.00	0.00	0.00	0.00	0.00				
LAB AIR NL	1.46	1.86	502.77	0.00	0.00				
3461-001 v	0.72	0.00	v	1.32	0.00	-3.3	3.6		
3461-002 v	0.76	1.53	v	3.03	0.00	-2.5	3.6		
3461-003 v	0.73	0.45	v	3.60	0.00	-2.6	3.6		
3461-004 v	0.60	0.72	v	1.78	0.00	-2.3	3.6		
3461-005 v	0.43	0.56	v	1.63	0.00	-3.1	3.7		
3461-006 v	1.63	1.62	v	0.75	0.00	-2.8	3.6		
3461-007 v	0.50	0.38	v	2.46	0.00	-3.3	3.8		
3461-008 v	0.39	0.33	v	2.55	0.00	-3.5	3.5		
3461-009 v	0.49	0.49	v	1.78	0.00	-2.5	3.7		
3461-010 v	0.74	1030.83	v	3.04	0.00	-2.8	4.4		
3461-010 v dup	1.05	1021.87	v	3.15	0.00	-2.8	4.4		
LCS 100/80ppm S14-122E	94.74	73.86	91.74	105.19					
ACTUAL	100.1	80.1	100.7	101.2					
% Recovery	94.6%	92.2%	91.1%	103.9%					
STD 345ppm S14-040506	57.16	54.74	55.13	326.58					
ACTUAL	57.9	57.5	57.9	345.0					
% DIFF.	1.3%	4.8%	4.7%	5.3%					

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	ND	ND	ND	1.00	1.00	1.00
LAB AIR NL	1.46	1.86	502.77	ND	ND	1.00	1.00	1.00
3461-001 v	ND	ND	VENT	2.11	0.35	1.00	1.00	1.61
3461-002 v	ND	2.29	VENT	4.55	0.76	1.00	1.00	1.50
3461-003 v	ND	ND	VENT	5.44	0.91	1.00	1.00	1.51
3461-004 v	ND	1.06	VENT	2.62	0.44	1.00	1.00	1.48
3461-005 v	ND	0.89	VENT	2.58	0.43	1.00	1.00	1.59
3461-006 v	ND	2.49	VENT	ND	ND	1.00	1.00	1.54
3461-007 v	ND	ND	VENT	3.99	0.66	1.00	1.00	1.62
3461-008 v	ND	ND	VENT	4.15	0.69	1.00	1.00	1.63
3461-009 v	ND	ND	VENT	2.69	0.45	1.00	1.00	1.51
3461-010 v	ND	1654.52	VENT	4.87	0.81	1.00	1.00	1.61
3461-010 v dup	ND	1640.15	VENT	5.05	0.84	1.00	1.00	1.61

Injection Log

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

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

WB 10/23/06

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

DATE: 12 / 28 / 200 6 *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 / 2006-12/28 **METHOD FILE NAME : J:\GC1\METHODS**_____**.M**

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD 345 ppm S14-04050602		ZW
02	MB		
03	Lab Air		
04	Water		
05	LCS ~~STD~~ 100/80 ppm S14-12280601		
06	↓		
07	3461-001 ✓		
08	↓ 002 ✓		
09	X 003		
10	3461-003 ✓		
11	004 ✓		
12	005 ✓		
13	006 ✓		
14	007 ✓		
15	007 ✓ Dup		
16	STD 100/80 ppm S14-12280601		
17	X		
18	3461-008 ✓		
19	009 ✓		
20	010 ✓		

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	3461-010 ✓ Dup		ZW
22	STD 100/80 ppm S14-12280601		
23	↓		
24			
25			
26			
27			
28			
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31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
TO-15	Air	MB	Method Blank P061227-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603461

Veridian Environmental, Inc.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061220-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: 12/20/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

Data not evaluated

Verified By: MW Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061220-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: 12/20/06
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: WJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061226-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: 12/26/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

Data not evaluated

Verified By: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061226-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: 12/26/06
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: MS Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061227-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: 12/27/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

all ND

Verified By: MJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061227-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: 12/27/06
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.

all ND

Verified By: W Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603461

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: 12/12 - 12/14/06
Date Received: 12/15/06
Date Analyzed: 12/20 - 12/27/06

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	P061220-MB	**88**	80-120	**99**	80-120	**114**	80-120	
Method Blank	P061226-MB	**94**	80-120	**103**	80-120	**102**	80-120	
Method Blank	P061227-MB	**103**	80-120	**101**	80-120	**101**	80-120	
Lab Control Sample	P061220-LCS	**89**	80-120	**98**	80-120	**113**	80-120	
Lab Control Sample	P061226-LCS	**98**	80-120	**100**	80-120	**99**	80-120	
Lab Control Sample	P061227-LCS	**104**	80-120	**98**	80-120	**101**	80-120	
Duplicate Lab Control Sample	P061220-DLCS	**88**	80-120	**100**	80-120	**111**	80-120	
Duplicate Lab Control Sample	P061226-DLCS	**97**	80-120	**100**	80-120	**99**	80-120	
Duplicate Lab Control Sample	P061227-DLCS	**99**	80-120	**96**	80-120	**93**	80-120	
WDI-VW-35-S-12-12-06	P2603461-001	**96**	80-120	**96**	80-120	**103**	80-120	
WDI-VW-35-D-12-12-06	P2603461-002	**103**	80-120	**96**	80-120	**105**	80-120	
WDI-VW-58-I-12-14-06	P2603461-003	**92**	80-120	**92**	80-120	**108**	80-120	
WDI-VW-58-S-12-14-06	P2603461-004	**103**	80-120	**101**	80-120	**98**	80-120	
WDI-VW-58-S-12-14-06	P2603461-004DUP	**110**	80-120	**99**	80-120	**97**	80-120	
WDI-VW-58-S-12-14-06-SC	P2603461-005	**108**	80-120	**98**	80-120	**94**	80-120	
WDI-VW-58-D-12-14-06	P2603461-006	**103**	80-120	**99**	80-120	**93**	80-120	
WDI-VW-39-S-12-14-06	P2603461-007	**94**	80-120	**99**	80-120	**100**	80-120	
WDI-VW-39-D-12-14-06	P2603461-008	**97**	80-120	**99**	80-120	**96**	80-120	
WDI-VW-38-S-12-14-06	P2603461-009	**101**	80-120	**98**	80-120	**98**	80-120	
WDI-VW-38-D-12-14-06	P2603461-010	**108**	80-120	**99**	80-120	**103**	80-120	

Verified By: MW Date: 1/2/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061220-LCS, P061220-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: 12/20/06
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	20.7	20.6	**85**	**85**	65-135	**0**	35	
Vinyl Chloride	24.8	19.3	19.8	**78**	**80**	65-135	**3**	35	
Bromomethane	25.0	22.2	22.6	**89**	**90**	65-135	**1**	35	
Chloroethane	25.0	20.9	20.9	**84**	**84**	65-135	**0**	35	
Acetone	26.5	23.4	23.4	**88**	**88**	65-135	**0**	35	
Trichlorofluoromethane	24.3	20.6	20.8	**85**	**86**	65-135	**1**	35	
1,1-Dichloroethene	27.3	24.0	23.8	**88**	**87**	65-135	**1**	35	
Methylene chloride	26.8	22.4	22.3	**84**	**83**	65-135	**1**	35	
Trichlorotrifluoroethane	27.0	24.1	25.4	**89**	**94**	65-135	**5**	35	
Carbon Disulfide	25.0	21.9	21.7	**88**	**87**	65-135	**1**	35	
trans-1,2-Dichloroethene	26.3	22.7	22.5	**86**	**86**	65-135	**0**	35	
1,1-Dichloroethane	26.3	22.2	22.5	**84**	**86**	65-135	**2**	35	
Methyl tert-Butyl Ether	26.3	22.9	23.2	**87**	**88**	65-135	**1**	35	
Vinyl Acetate	24.3	21.5	22.0	**88**	**91**	65-135	**3**	35	
2-Butanone (MEK)	26.8	24.6	24.6	**92**	**92**	65-135	**0**	35	
cis-1,2-Dichloroethene	26.5	22.2	22.2	**84**	**84**	65-135	**0**	35	
Chloroform	30.0	23.3	23.4	**78**	**78**	65-135	**0**	35	
1,2-Dichloroethane	26.0	21.9	21.9	**84**	**84**	65-135	**0**	35	
1,1,1-Trichloroethane	26.3	22.5	22.4	**86**	**85**	65-135	**1**	35	
Benzene	26.3	22.2	22.1	**84**	**84**	65-135	**0**	35	
Carbon Tetrachloride	25.8	23.3	23.1	**90**	**90**	65-135	**0**	35	
1,2-Dichloropropane	26.0	22.5	22.5	**87**	**87**	65-135	**0**	35	

Data not evaluated

Verified By: W Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061220-LCS, P061220-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: 12/20/06
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	24.0	23.8	**87**	**87**	65-135	**0**	35	
Trichloroethene	27.3	24.7	24.5	**90**	**90**	65-135	**0**	35	
cis-1,3-Dichloropropene	26.0	21.5	21.5	**83**	**83**	65-135	**0**	35	
4-Methyl-2-pentanone	26.5	24.1	23.5	**91**	**89**	65-135	**2**	35	
trans-1,3-Dichloropropene	27.8	24.2	23.9	**87**	**86**	65-135	**1**	35	
1,1,2-Trichloroethane	25.8	22.8	22.4	**88**	**87**	65-135	**1**	35	
Toluene	26.0	22.2	22.7	**85**	**87**	65-135	**2**	35	
2-Hexanone	26.0	22.4	22.8	**86**	**88**	65-135	**2**	35	
Dibromochloromethane	26.5	23.7	24.1	**89**	**91**	65-135	**2**	35	
1,2-Dibromoethane	26.0	23.0	23.4	**88**	**90**	65-135	**2**	35	
Tetrachloroethene	25.8	22.7	23.2	**88**	**90**	65-135	**2**	35	
Chlorobenzene	26.0	22.7	23.1	**87**	**89**	65-135	**2**	35	
Ethylbenzene	25.8	22.3	22.4	**86**	**87**	65-135	**1**	35	
m,p-Xylenes	61.5	54.0	54.6	**88**	**89**	65-135	**1**	35	
Bromoform	31.3	28.3	28.6	**90**	**91**	65-135	**1**	35	
Styrene	25.8	23.4	23.6	**91**	**91**	65-135	**0**	35	
o-Xylene	29.0	25.5	25.8	**88**	**89**	65-135	**1**	35	
1,1,2,2-Tetrachloroethane	29.3	25.7	26.0	**88**	**89**	65-135	**1**	35	
1,3-Dichlorobenzene	25.3	22.5	22.7	**89**	**90**	65-135	**1**	35	
1,4-Dichlorobenzene	26.0	23.5	23.5	**90**	**90**	65-135	**0**	35	
1,2-Dichlorobenzene	25.5	23.0	23.1	**90**	**91**	65-135	**1**	35	

Verified By: W Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061226-LCS, P061226-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: 12/26/06
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	23.3	22.7	**96**	**93**	65-135	**3**	35	
Vinyl Chloride	24.8	21.0	21.3	**85**	**86**	65-135	**1**	35	
Bromomethane	25.0	22.9	23.1	**92**	**92**	65-135	**0**	35	
Chloroethane	25.0	22.3	22.3	**89**	**89**	65-135	**0**	35	
Acetone	26.5	22.3	22.5	**84**	**85**	65-135	**1**	35	
Trichlorofluoromethane	24.3	23.1	22.9	**95**	**94**	65-135	**1**	35	
1,1-Dichloroethene	27.3	26.1	25.9	**96**	**95**	65-135	**1**	35	
Methylene chloride	26.8	24.4	24.4	**91**	**91**	65-135	**0**	35	
Trichlorotrifluoroethane	27.0	22.0	22.3	**81**	**83**	65-135	**2**	35	
Carbon Disulfide	25.0	22.7	22.8	**91**	**91**	65-135	**0**	35	
trans-1,2-Dichloroethene	26.3	24.7	24.7	**94**	**94**	65-135	**0**	35	
1,1-Dichloroethane	26.3	25.2	25.2	**96**	**96**	65-135	**0**	35	
Methyl tert-Butyl Ether	26.3	23.2	23.3	**88**	**89**	65-135	**1**	35	
Vinyl Acetate	24.3	22.1	22.1	**91**	**91**	65-135	**0**	35	
2-Butanone (MEK)	26.8	25.6	25.4	**96**	**95**	65-135	**1**	35	
cis-1,2-Dichloroethene	26.5	25.0	25.0	**94**	**94**	65-135	**0**	35	
Chloroform	30.0	26.4	26.4	**88**	**88**	65-135	**0**	35	
1,2-Dichloroethane	26.0	24.7	24.7	**95**	**95**	65-135	**0**	35	
1,1,1-Trichloroethane	26.3	24.5	24.6	**93**	**94**	65-135	**1**	35	
Benzene	26.3	24.1	24.2	**92**	**92**	65-135	**0**	35	
Carbon Tetrachloride	25.8	24.7	24.7	**96**	**96**	65-135	**0**	35	
1,2-Dichloropropane	26.0	24.8	24.7	**95**	**95**	65-135	**0**	35	

Data not evaluated

Verified By: w Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061226-LCS, P061226-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: 12/26/06
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	26.5	26.6	**96**	**97**	65-135	**1**	35	
Trichloroethene	27.3	25.6	25.8	**94**	**95**	65-135	**1**	35	
cis-1,3-Dichloropropene	26.0	24.4	24.2	**94**	**93**	65-135	**1**	35	
4-Methyl-2-pentanone	26.5	27.4	27.5	**103**	**104**	65-135	**1**	35	
trans-1,3-Dichloropropene	27.8	27.6	27.8	**99**	**100**	65-135	**1**	35	
1,1,2-Trichloroethane	25.8	24.7	24.8	**96**	**96**	65-135	**0**	35	
Toluene	26.0	24.8	24.9	**95**	**96**	65-135	**1**	35	
2-Hexanone	26.0	27.0	26.8	**104**	**103**	65-135	**1**	35	
Dibromochloromethane	26.5	26.4	26.4	**100**	**100**	65-135	**0**	35	
1,2-Dibromoethane	26.0	25.1	25.3	**97**	**97**	65-135	**0**	35	
Tetrachloroethene	25.8	24.1	24.0	**93**	**93**	65-135	**0**	35	
Chlorobenzene	26.0	24.9	25.0	**96**	**96**	65-135	**0**	35	
Ethylbenzene	25.8	25.2	25.2	**98**	**98**	65-135	**0**	35	
m,p-Xylenes	61.5	60.7	60.8	**99**	**99**	65-135	**0**	35	
Bromoform	31.3	30.3	30.0	**97**	**96**	65-135	**1**	35	
Styrene	25.8	25.9	25.9	**100**	**100**	65-135	**0**	35	
o-Xylene	29.0	28.7	28.8	**99**	**99**	65-135	**0**	35	
1,1,2,2-Tetrachloroethane	29.3	28.7	28.7	**98**	**98**	65-135	**0**	35	
1,3-Dichlorobenzene	25.3	24.8	24.8	**98**	**98**	65-135	**0**	35	
1,4-Dichlorobenzene	26.0	25.7	25.6	**99**	**98**	65-135	**1**	35	
1,2-Dichlorobenzene	25.5	25.2	25.2	**99**	**99**	65-135	**0**	35	

Verified By: WJ Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061227-LCS, P061227-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: 12/27/06
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	24.5	23.2	**101**	**95**	65-135	**6**	35	
Vinyl Chloride	24.8	22.4	21.8	**90**	**88**	65-135	**2**	35	
Bromomethane	25.0	22.5	22.7	**90**	**91**	65-135	**1**	35	
Chloroethane	25.0	22.2	21.9	**89**	**88**	65-135	**1**	35	
Acetone	26.5	22.6	22.1	**85**	**83**	65-135	**2**	35	
Trichlorofluoromethane	24.3	24.1	22.6	**99**	**93**	65-135	**6**	35	
1,1-Dichloroethene	27.3	26.1	25.5	**96**	**93**	65-135	**3**	35	
Methylene chloride	26.8	24.8	24.2	**93**	**90**	65-135	**3**	35	
Trichlorotrifluoroethane	27.0	19.1	22.5	**71**	**83**	65-135	**16**	35	
Carbon Disulfide	25.0	22.4	22.5	**90**	**90**	65-135	**0**	35	
trans-1,2-Dichloroethene	26.3	25.4	24.5	**97**	**93**	65-135	**4**	35	
1,1-Dichloroethane	26.3	26.6	24.8	**101**	**94**	65-135	**7**	35	
Methyl tert-Butyl Ether	26.3	22.1	23.4	**84**	**89**	65-135	**6**	35	
Vinyl Acetate	24.3	21.2	22.4	**87**	**92**	65-135	**6**	35	
2-Butanone (MEK)	26.8	24.3	25.6	**91**	**96**	65-135	**5**	35	
cis-1,2-Dichloroethene	26.5	26.4	24.9	**100**	**94**	65-135	**6**	35	
Chloroform	30.0	27.9	26.2	**93**	**87**	65-135	**7**	35	
1,2-Dichloroethane	26.0	25.6	25.4	**98**	**98**	65-135	**0**	35	
1,1,1-Trichloroethane	26.3	24.4	25.6	**93**	**97**	65-135	**4**	35	
Benzene	26.3	23.5	24.4	**89**	**93**	65-135	**4**	35	
Carbon Tetrachloride	25.8	24.9	25.5	**97**	**99**	65-135	**2**	35	
1,2-Dichloropropane	26.0	25.4	25.4	**98**	**98**	65-135	**0**	35	

Verified By: w Date: 1/3/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461
CAS Sample ID: P061227-LCS, P061227-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: 12/27/06
Volume(s) Analyzed: NA

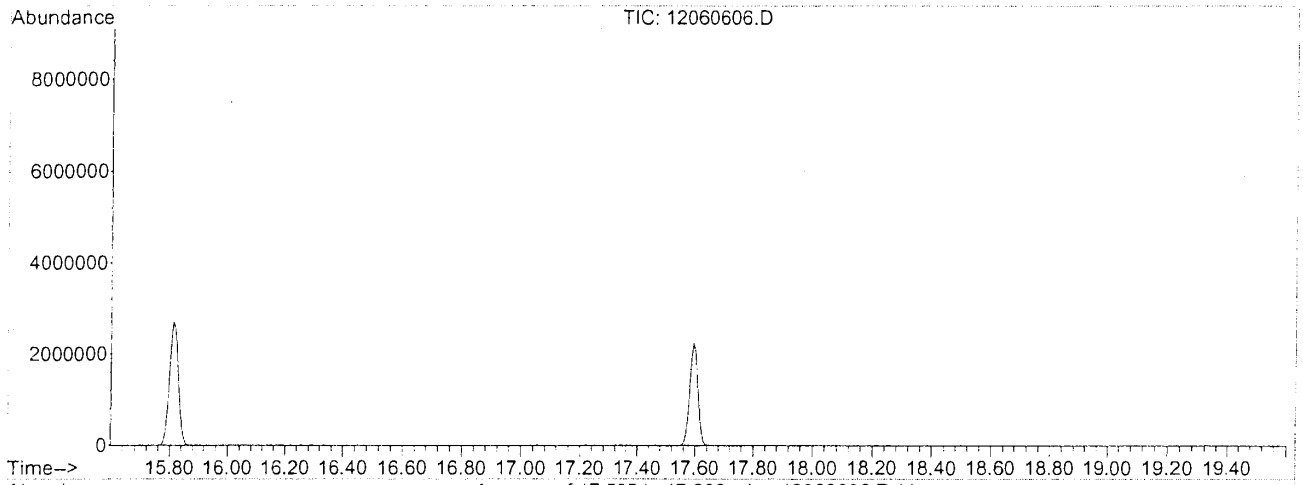
Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	27.9	27.8	101	101	65-135	0	35	
Trichloroethene	27.3	25.7	25.0	94	92	65-135	2	35	
cis-1,3-Dichloropropene	26.0	24.9	24.8	96	95	65-135	1	35	
4-Methyl-2-pentanone	26.5	27.9	28.2	105	106	65-135	0.9	35	
trans-1,3-Dichloropropene	27.8	28.0	28.4	101	102	65-135	1	35	
1,1,2-Trichloroethane	25.8	24.1	24.5	93	95	65-135	2	35	
Toluene	26.0	23.8	23.8	92	92	65-135	0	35	
2-Hexanone	26.0	27.7	27.8	107	107	65-135	0	35	
Dibromochloromethane	26.5	25.5	25.1	96	95	65-135	1	35	
1,2-Dibromoethane	26.0	24.3	23.8	93	92	65-135	1	35	
Tetrachloroethene	25.8	23.9	22.5	93	87	65-135	7	35	
Chlorobenzene	26.0	23.7	24.3	91	93	65-135	2	35	
Ethylbenzene	25.8	24.6	24.8	95	96	65-135	1	35	
m,p-Xylenes	61.5	60.1	59.5	98	97	65-135	1	35	
Bromoform	31.3	29.6	28.4	95	91	65-135	4	35	
Styrene	25.8	25.7	24.2	100	94	65-135	6	35	
o-Xylene	29.0	28.6	27.6	99	95	65-135	4	35	
1,1,2,2-Tetrachloroethane	29.3	28.3	27.4	97	94	65-135	3	35	
1,3-Dichlorobenzene	25.3	24.6	23.2	97	92	65-135	5	35	
1,4-Dichlorobenzene	26.0	25.5	23.9	98	92	65-135	6	35	
1,2-Dichlorobenzene	25.5	24.9	23.4	98	92	65-135	6	35	

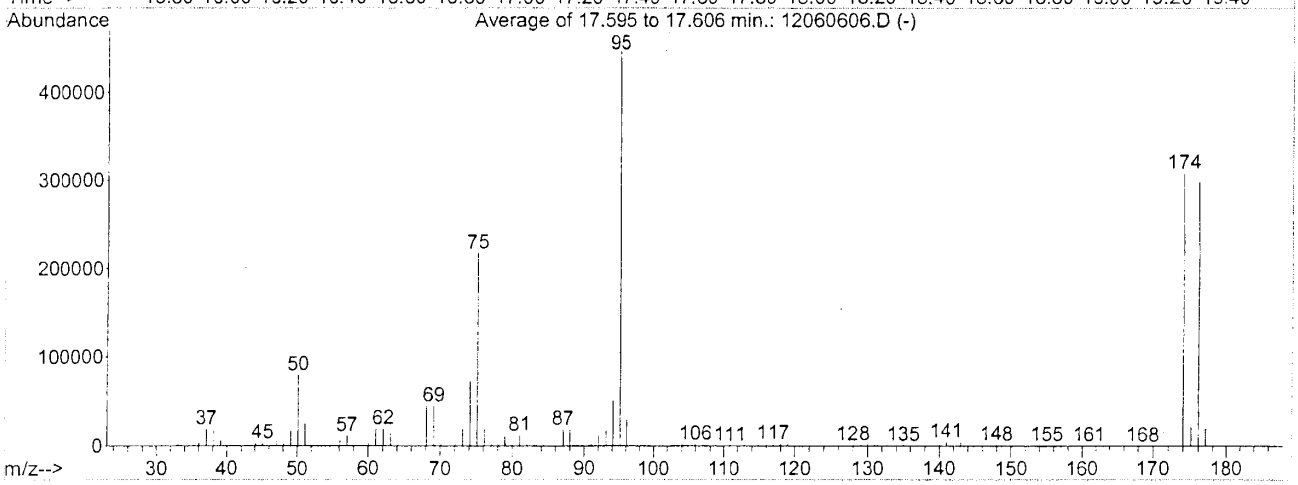
Verified By: MJ Date: 1/2/07

Data Path : J:\MS08\Data\2006_012\06\
Data File : 12060606.D
Acq On : 6 Dec 2006 15:30
Operator : LM
Sample : 25ng TO-15 BFB
Misc : S15-12050601
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 01 11:40:51 2006





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.8	79581	PASS
75	95	30	66	48.6	217322	PASS
95	95	100	100	100.0	446976	PASS
96	95	5	9	6.5	28912	PASS
173	174	0.00	2	0.2	734	PASS
174	95	50	120	69.0	308394	PASS
175	174	4	9	6.9	21202	PASS
176	174	93	101	96.6	298005	PASS
177	176	5	9	6.5	19282	PASS

LM 12/07/06

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Response Factor Report MS08

all Targets ok

Method Path : J:\MS08\METHODS\
Method File : R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006
Response Via : Initial Calibration

Calibration Files
0.5 =12060607.D 1 =12060608.D 5 =12060609.D 25 =12060610.D
50 =12060611.D 100 =12060612.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I	----------ISTD----------							
2)	T	Propene	1.556	1.487	1.375	1.028	0.937	0.954	1.223	23.00
3)	T	Dichlorodifluorom	2.931	2.932	2.696	2.367	2.232	2.195	2.559	13.23
4)	T	Chloromethane	2.263	2.274	2.201	1.931	1.869	1.942	2.080	8.90
5)	T	Freon 114	0.815	0.806	0.700	0.606	0.575	0.545	0.675	17.40
6)	T	Vinyl Chloride	1.861	1.777	1.409	1.240	1.078	1.143	1.418	23.34
7)	T	1,3-Butadiene	1.650	1.575	1.459	1.227	1.168	1.173	1.375	15.53
8)	T	Bromomethane	1.212	1.186	1.082	0.930	0.914	0.981	1.051	12.29
9)	T	Chloroethane	1.146	1.093	1.018	0.877	0.842	0.866	0.974	13.33
10)	T	Ethanol	0.608	0.564	0.547	0.918	0.927	0.955	0.753	26.42
11)	T	Acetonitrile	2.190	2.095	2.024	2.393	2.326	2.394	2.237	7.05
12)	T	Acrolein	0.758	0.710	0.719	0.714	0.730	0.753	0.731	2.78
13)	T	Acetone	1.272	1.140	1.105	0.822	0.932	1.004	1.046	15.29
14)	T	Trichlorofluorome	1.895	1.852	1.773	1.660	1.632	1.636	1.741	6.63
15)	T	Isopropanol	3.587	3.505	2.972	3.370	2.969	2.806	3.201	10.19
16)	T	Acrylonitrile	1.573	1.464	1.561	1.634	1.608	1.642	1.580	4.14
17)	T	1,1-Dichloroethen	1.245	1.270	1.198	1.126	1.090	1.103	1.172	6.53
18)	T	tert-Butanol	3.496	3.504	3.088	2.880	2.614	2.170	2.959	17.56
19)	T	Methylene Chlorid	1.588	1.449	1.358	1.243	1.211	1.221	1.345	11.23
20)	T	Allyl Chloride	1.643	1.700	1.737	1.747	1.733	1.772	1.722	2.62
21)	T	Trichlorotrifluor	0.876	0.775	0.684	0.527	0.557	0.681	0.683	19.21
22)	T	Carbon Disulfide	5.671	5.360	4.931	4.422	4.294	4.308	4.831	12.16
23)	T	trans-1,2-Dichlor	1.968	1.948	1.906	1.796	1.809	1.858	1.881	3.81
24)	T	1,1-Dichloroethan	2.099	2.008	1.925	1.852	1.811	1.764	1.910	6.64
25)	T	Methyl tert-Butyl	3.715	3.514	3.025	2.597	2.607	2.757	3.036	15.75
26)	T	Vinyl Acetate	0.248	0.292	0.251	0.241	0.239	0.246	0.253	7.80
27)	T	2-Butanone	0.872	0.824	0.788	0.761	0.772	0.811	0.805	5.03
28)	T	cis-1,2-Dichloroe	1.883	1.839	1.764	1.700	1.682	1.700	1.761	4.73
29)	T	Diisopropyl Ether	0.954	0.958	0.848	0.749	0.730	0.752	0.832	12.58
30)	T	Ethyl Acetate	0.448	0.439	0.407	0.372	0.372	0.385	0.404	8.33
31)	T	n-Hexane	2.029	1.877	1.621	1.300	1.293	1.385	1.584	19.77
32)	T	Chloroform	2.165	2.124	1.857	1.764	1.676	1.626	1.869	12.20
33)	S	1,2-Dichloroethan	1.958	1.951	1.848	1.854	1.817	1.835	1.877	3.26
34)	T	Tetrahydrofuran	0.836	0.808	0.793	0.697	0.724	0.692	0.759	8.13
35)	T	Ethyl tert-Butyl	1.449	1.419	1.282	1.133	1.118	1.164	1.261	11.61
36)	T	1,2-Dichloroethan	1.875	1.808	1.707	1.625	1.630	1.609	1.709	6.45
37)	IR	1,4-Difluorobenzene (	----------ISTD----------							
38)	T	1,1,1-Trichloroet	0.453	0.436	0.408	0.389	0.386	0.392	0.411	6.81
39)	T	Isopropyl Acetate	0.175	0.176	0.173	0.167	0.164	0.161	0.169	3.59
40)	T	1-Butanol	0.139	0.135	0.142	0.277	0.269	0.253	0.202	34.82 NTC
41)	T	Benzene	1.230	1.169	1.053	0.972	0.952	0.940	1.053	11.59
42)	T	Carbon Tetrachlor	0.344	0.338	0.339	0.328	0.331	0.338	0.336	1.66
43)	T	Cyclohexane	0.431	0.405	0.367	0.330	0.330	0.341	0.367	11.54
44)	T	tert-Amyl Methyl	0.800	0.780	0.740	0.699	0.681	0.670	0.728	7.40
45)	T	1,2-Dichloropropa	0.289	0.276	0.270	0.261	0.257	0.257	0.268	4.67
46)	T	Bromodichlorometh	0.362	0.361	0.366	0.367	0.359	0.349	0.361	1.83
47)	T	Trichloroethene	0.259	0.244	0.244	0.231	0.227	0.226	0.238	5.41
48)	T	1,4-Dioxane	0.211	0.205	0.205	0.213	0.208	0.200	0.207	2.34
49)	T	Isooctane	1.121	1.075	1.005	0.924	0.904	0.895	0.987	9.64
50)	T	Methyl Methacryla	0.099	0.100	0.104	0.106	0.104	0.101	0.102	2.63
51)	T	n-Heptane	0.287	0.272	0.264	0.242	0.235	0.234	0.256	8.60
52)	T	cis-1,3-Dichlorop	0.473	0.468	0.463	0.455	0.443	0.430	0.455	3.61
53)	T	4-Methyl-2-pentan	0.246	0.251	0.251	0.252	0.243	0.235	0.246	2.75
54)	T	trans-1,3-Dichlor	0.414	0.428	0.427	0.433	0.425	0.417	0.424	1.68
55)	T	1,1,2-Trichloroet	0.279	0.264	0.265	0.260	0.254	0.247	0.261	4.13
56)	I	Chlorobenzene-d5 (IS3	----------ISTD----------							
57)	S	Toluene-d8 (SS2)	2.035	2.050	2.019	2.020	2.038	2.048	2.035	0.65

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Response Factor Report MS08

Method Path : J:\MS08\METHODS\
Method File : R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006
Response Via : Initial Calibration

Calibration Files
0.5 =12060607.D 1 =12060608.D 5 =12060609.D 25 =12060610.D
50 =12060611.D 100 =12060612.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
58)	T	Toluene	2.305	2.217	2.072	1.959	1.890	1.804	2.041	9.48
59)	T	2-Hexanone	1.164	1.179	1.176	1.194	1.168	1.112	1.166	2.41
60)	T	Dibromochlorometh	0.525	0.520	0.511	0.523	0.513	0.501	0.515	1.71
61)	T	1,2-Dibromoethane	0.557	0.570	0.554	0.555	0.538	0.521	0.549	3.06
62)	T	Butyl Acetate	1.269	1.306	1.284	1.329	1.298	1.243	1.288	2.32
63)	T	n-Octane	0.461	0.455	0.436	0.409	0.394	0.378	0.422	8.00
64)	T	Tetrachloroethene	0.484	0.488	0.454	0.432	0.424	0.418	0.450	6.85
65)	T	Chlorobenzene	1.430	1.414	1.334	1.289	1.234	1.190	1.315	7.31
66)	T	Ethylbenzene	2.597	2.555	2.438	2.376	2.251	2.123	2.390	7.56
67)	T	m- & p-Xylene	1.644	1.666	1.591	1.534	1.448	1.345	1.538	8.01
68)	T	Bromoform	0.297	0.310	0.324	0.336	0.328	0.318	0.319	4.45
69)	T	Styrene	1.389	1.420	1.427	1.426	1.371	1.291	1.387	3.79
70)	T	o-Xylene	1.782	1.777	1.715	1.668	1.578	1.460	1.663	7.53
71)	T	n-Nonane	1.089	1.104	1.049	1.034	0.979	0.911	1.028	7.04
72)	T	1,1,2,2-Tetrachlo	0.820	0.819	0.808	0.809	0.773	0.734	0.794	4.26
73)	S	Bromofluorobenzen	0.594	0.601	0.600	0.601	0.597	0.591	0.597	0.68
74)	T	Cumene	2.295	2.288	2.198	2.136	2.019	1.913	2.142	7.10
75)	T	alpha-Pinene	1.184	1.221	1.155	1.132	1.091	1.049	1.139	5.47
76)	T	n-Propylbenzene	3.105	3.061	2.960	2.912	2.725	2.497	2.877	7.95
77)	T	3-Ethyltoluene	2.486	2.443	2.387	2.378	2.266	2.133	2.349	5.50
78)	T	4-Ethyltoluene	2.322	2.359	2.270	2.192	2.012	1.880	2.172	8.69
79)	T	1,3,5-Trimethylbe	2.007	2.061	1.967	1.930	1.813	1.701	1.913	6.97
80)	T	alpha-Methylstyre	0.999	1.013	1.034	1.071	1.025	0.976	1.020	3.16
81)	T	2-Ethyltoluene	2.515	2.533	2.435	2.396	2.231	2.083	2.366	7.42
82)	T	1,2,4-Trimethylbe	1.990	2.016	1.965	1.915	1.812	1.702	1.900	6.37
83)	T	n-Decane	1.194	1.176	1.156	1.109	1.047	0.967	1.108	7.85
84)	T	Benzyl Chloride	1.734	1.810	1.859	1.921	1.826	1.681	1.805	4.80
85)	T	1,3-Dichlorobenze	1.065	1.068	1.025	1.004	0.961	0.918	1.007	5.88
86)	T	1,4-Dichlorobenze	1.016	1.037	1.003	0.986	0.936	0.887	0.977	5.75
87)	T	sec-Butylbenzene	2.730	2.719	2.625	2.531	2.348	2.159	2.519	8.96
88)	T	p-Isopropyltoluen	2.142	2.181	2.104	2.051	1.939	1.781	2.033	7.33
89)	T	1,2,3-Trimethylbe	2.009	1.965	1.913	1.853	1.747	1.635	1.854	7.60
90)	T	1,2-Dichlorobenze	1.026	0.992	0.951	0.939	0.891	0.835	0.939	7.33
91)	T	d-Limonene	0.781	0.798	0.827	0.829	0.781	0.733	0.792	4.52
92)	T	1,2-Dibromo-3-Chl	0.259	0.288	0.321	0.342	0.340	0.325	0.313	10.42
93)	T	n-Undecane	1.102	1.122	1.077	0.998	0.982	0.927	1.035	7.43
94)	T	1,2,4-Trichlorobe	0.189	0.196	0.182	0.185	0.186	0.185	0.187	2.56
95)	T	Naphthalene	2.120	2.196	2.197	2.281	2.280	2.184	2.210	2.80
96)	T	n-Dodecane	0.801	0.833	0.778	0.686	0.692	0.679	0.745	9.00
97)	T	Hexachloro-1,3-bu	0.303	0.310	0.304	0.298	0.300	0.300	0.303	1.32

(#) = Out of Range

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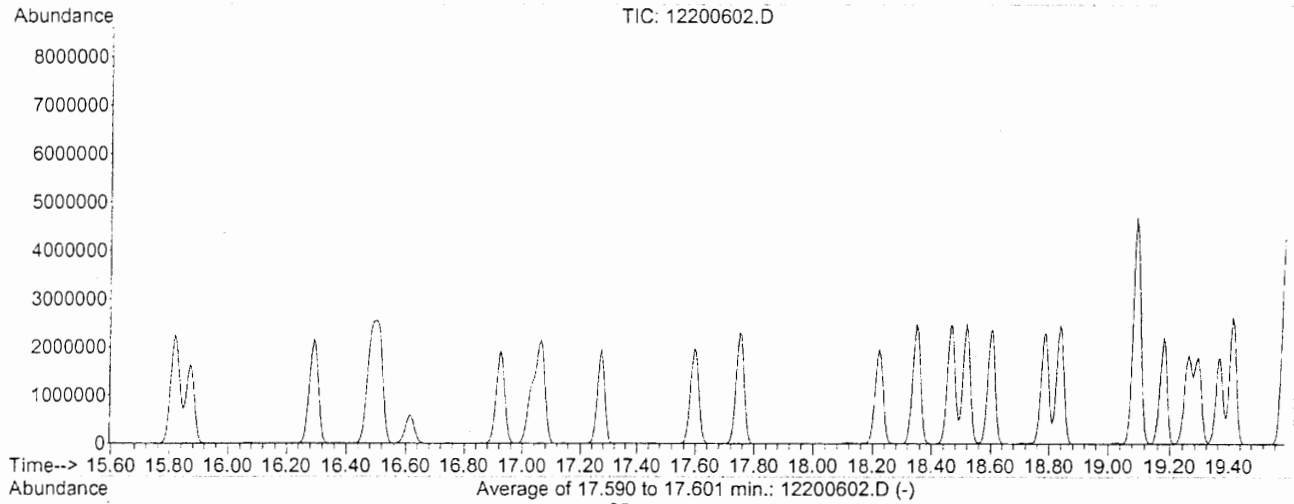
BFB

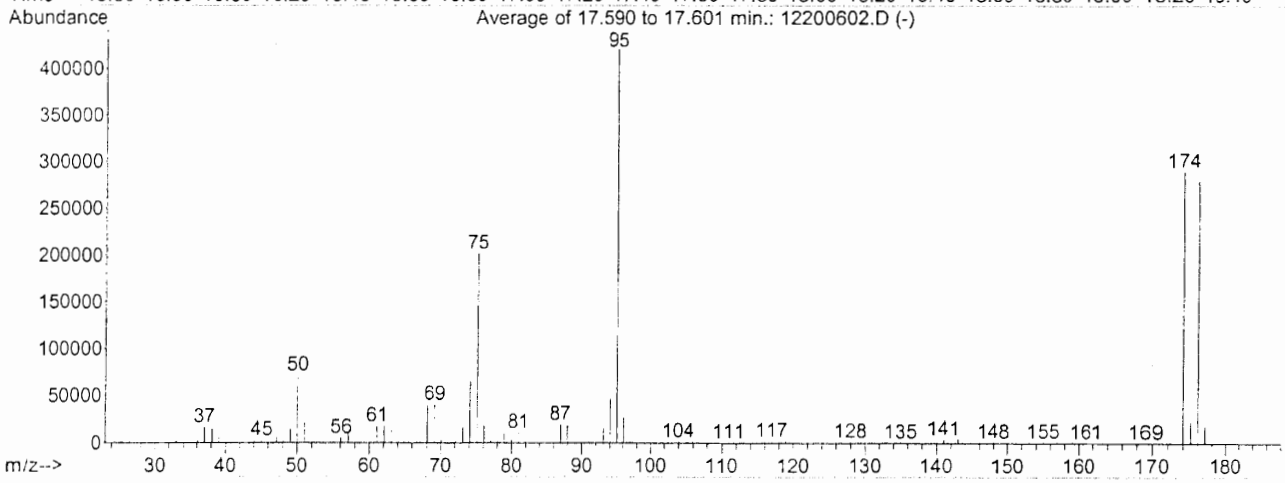
Data Path : J:\MS08\DATA\2006_012\20\
Data File : 12200602.D
Acq On : 20 Dec 2006 9:52
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8120606.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.0	71546	PASS
75	95	30	66	47.9	201856	PASS
95	95	100	100	100.0	421781	PASS
96	95	5	9	6.4	27074	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	68.8	290261	PASS
175	174	4	9	7.4	21581	PASS
176	174	93	101	96.5	279957	PASS
177	176	5	9	6.6	18582	PASS

LM 12/21/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\20\
Data File : 12200602.D
Acq On : 20 Dec 2006 9:52
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 11:27:05 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	92	0.01
2	T	Propene	1.223	0.919	24.9	82	0.01
3	T	Dichlorodifluoromethane	2.559	2.195	14.2	85	0.02
4	T	Chloromethane	2.080	1.756	15.6	83	0.01
5	T	Freon 114	0.675	0.677	-0.3	102	0.01
6	T	Vinyl Chloride	1.418	1.127	20.5	83	0.01
7	T	1,3-Butadiene	1.375	0.918	33.2#	69	0.02
8	T	Bromomethane	1.051	0.900	14.4	89	0.01
9	T	Chloroethane	0.974	0.831	14.7	87	0.01
10	T	Ethanol	0.753	0.805	-6.9	80	0.03
11	T	Acetonitrile	2.237	2.079	7.1	80	0.03
12	T	Acrolein	0.731	0.686	6.2	88	0.02
13	T	Acetone	1.046	0.893	14.6	100	0.02
14	T	Trichlorofluoromethane	1.741	1.616	7.2	89	0.01
15	T	Isopropanol	3.201	2.954	7.7	80	0.03
16	T	Acrylonitrile	1.580	1.488	5.8	84	0.02
17	T	1,1-Dichloroethene	1.172	1.085	7.4	88	0.01
18	T	tert-Butanol	2.959	2.570	13.1	82	0.03
19	T	Methylene Chloride	1.345	1.178	12.4	87	0.02
20	T	Allyl Chloride	1.722	1.544	10.3	81	0.01
21	T	Trichlorotrifluoroethane	0.683	0.566	17.1	99	0.01
22	T	Carbon Disulfide	4.831	4.278	11.4	89	0.01
23	T	trans-1,2-Dichloroethene	1.881	1.605	14.7	82	0.01
24	T	1,1-Dichloroethane	1.910	1.712	10.4	85	0.02
25	T	Methyl tert-Butyl Ether	3.036	2.676	11.9	95	0.01
26	T	Vinyl Acetate	0.253	0.249	1.6	95	0.01
27	T	2-Butanone	0.805	0.769	4.5	93	0.02
28	T	cis-1,2-Dichloroethene	1.761	1.518	13.8	82	0.01
29	T	Diisopropyl Ether	0.832	0.775	6.9	95	0.01
30	T	Ethyl Acetate	0.404	0.364	9.9	90	0.01
31	T	n-Hexane	1.584	1.333	15.8	94	0.01
32	T	Chloroform	1.869	1.722	7.9	90	0.01
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.755	6.5	87	0.01
34	T	Tetrahydrofuran	0.759	0.737	2.9	97	0.01
35	T	Ethyl tert-Butyl Ether	1.261	1.167	7.5	94	0.00
36	T	1,2-Dichloroethane	1.709	1.459	14.6	82	0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	93	0.00
38	T	1,1,1-Trichloroethane	0.411	0.370	10.0	89	0.00
39	T	Isopropyl Acetate	0.169	0.160	5.3	89	0.00
40	T	1-Butanol	0.202	0.209	-3.5	70	0.00
41	T	Benzene	1.053	0.940	10.7	90	0.00
42	T	Carbon Tetrachloride	0.336	0.314	6.5	89	0.00
43	T	Cyclohexane	0.367	0.330	10.1	93	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.672	7.7	89	0.00
45	T	1,2-Dichloropropane	0.268	0.241	10.1	86	0.00
46	T	Bromodichloromethane	0.361	0.336	6.9	85	0.00
47	T	Trichloroethene	0.238	0.229	3.8	92	0.00
48	T	1,4-Dioxane	0.207	0.197	4.8	86	0.00
49	T	Isooctane	0.987	0.866	12.3	87	0.00
50	T	Methyl Methacrylate	0.102	0.103	-1.0	91	0.00
51	T	n-Heptane	0.256	0.226	11.7	87	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\20\
Data File : 12200602.D
Acq On : 20 Dec 2006 9:52
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Quant Time: Dec 21 11:27:05 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.417	8.4	85	0.00
53	T	4-Methyl-2-pentanone	0.246	0.220	10.6	81	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.386	9.0	83	0.00
55	T	1,1,2-Trichloroethane	0.261	0.239	8.4	86	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	90	0.00
57	S	Toluene-d8 (SS2)	2.035	1.998	1.8	89	0.00
58	T	Toluene	2.041	1.868	8.5	86	0.00
59	T	2-Hexanone	1.166	1.007	13.6	76	0.00
60	T	Dibromochloromethane	0.515	0.491	4.7	85	0.00
61	T	1,2-Dibromoethane	0.549	0.521	5.1	85	0.00
62	T	Butyl Acetate	1.288	1.125	12.7	76	0.00
63	T	n-Octane	0.422	0.378	10.4	83	0.00
64	T	Tetrachloroethene	0.450	0.422	6.2	88	0.00
65	T	Chlorobenzene	1.315	1.219	7.3	85	0.00
66	T	Ethylbenzene	2.390	2.181	8.7	83	0.00
67	T	m- & p-Xylene	1.538	1.401	8.9	82	0.00
68	T	Bromoform	0.319	0.313	1.9	84	0.00
69	T	Styrene	1.387	1.317	5.0	83	0.00
70	T	o-Xylene	1.663	1.512	9.1	82	0.00
71	T	n-Nonane	1.028	0.869	15.5	76	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.707	11.0	79	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.677	-13.4	102	0.00
74	T	Cumene	2.142	1.953	8.8	83	0.00
75	T	alpha-Pinene	1.139	1.025	10.0	82	0.00
76	T	n-Propylbenzene	2.877	2.562	10.9	79	0.00
77	T	3-Ethyltoluene	2.349	2.060	12.3	78	0.00
78	T	4-Ethyltoluene	2.172	1.943	10.5	80	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.664	13.0	78	0.00
80	T	alpha-Methylstyrene	1.020	0.932	8.6	79	0.00
81	T	2-Ethyltoluene	2.366	2.073	12.4	78	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.623	14.6	76	0.00
83	T	n-Decane	1.108	0.887	19.9	72	0.00
84	T	Benzyl Chloride	1.805	1.605	11.1	75	0.00
85	T	1,3-Dichlorobenzene	1.007	0.881	12.5	79	0.00
86	T	1,4-Dichlorobenzene	0.977	0.852	12.8	78	0.00
87	T	sec-Butylbenzene	2.519	2.182	13.4	78	0.00
88	T	p-Isopropyltoluene	2.033	1.718	15.5	76	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.546	16.6	75	0.00
90	T	1,2-Dichlorobenzene	0.939	0.799	14.9	77	0.00
91	T	d-Limonene	0.792	0.663	16.3	72	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.277	11.5	73	0.00
93	T	n-Undecane	1.035	0.672	35.1#	61	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.128	31.6#	63	0.00
95	T	Naphthalene	2.210	1.521	31.2#	60	0.00
96	T	n-Dodecane	0.745	0.394	47.1#	52	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.208	31.4#	63	0.00

L 12/21/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\20\
Data File : 12200604.D
Acq On : 20 Dec 2006 12:08
Operator : LM
Sample : 1ng TO-15 STD
Misc : S15-12190601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 12:40:53 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	87	-0.01
2	T	Propene	1.223	1.429	-16.8	84	0.02
3	T	Dichlorodifluoromethane	2.559	2.688	-5.0	80	0.02
4	T	Chloromethane	2.080	1.991	4.3	77	0.00
5	T	Freon 114	0.675	0.820	-21.5	89	0.02
6	T	Vinyl Chloride	1.418	1.387	2.2	68	0.01
7	T	1,3-Butadiene	1.375	1.061	22.8	59	0.02
8	T	Bromomethane	1.051	1.104	-5.0	81	0.01
9	T	Chloroethane	0.974	0.938	3.7	75	0.00
10	T	Ethanol	0.753	0.523	30.5#	81	0.00
11	T	Acetonitrile	2.237	1.835	18.0	77	0.01
12	T	Acrolein	0.731	0.675	7.7	83	0.02
13	T	Acetone	1.046	1.129	-7.9	87	0.02
14	T	Trichlorofluoromethane	1.741	1.675	3.8	79	0.00
15	T	Isopropanol	3.201	2.986	6.7	74	0.00
16	T	Acrylonitrile	1.580	1.400	11.4	84	0.00
17	T	1,1-Dichloroethene	1.172	1.113	5.0	77	0.00
18	T	tert-Butanol	2.959	3.016	-1.9	75	0.00
19	T	Methylene Chloride	1.345	1.290	4.1	78	0.00
20	T	Allyl Chloride	1.722	1.392	19.2	72	0.00
21	T	Trichlorotrifluoroethane	0.683	0.706	-3.4	80	0.00
22	T	Carbon Disulfide	4.831	4.982	-3.1	81	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.617	14.0	73	0.00
24	T	1,1-Dichloroethane	1.910	1.886	1.3	82	0.00
25	T	Methyl tert-Butyl Ether	3.036	3.024	0.4	75	0.00
26	T	Vinyl Acetate	0.253	0.263	-4.0	79	0.00
27	T	2-Butanone	0.805	0.751	6.7	80	0.00
28	T	cis-1,2-Dichloroethene	1.761	1.549	12.0	74	-0.01
29	T	Diisopropyl Ether	0.832	0.853	-2.5	78	0.00
30	T	Ethyl Acetate	0.404	0.374	7.4	74	0.00
31	T	n-Hexane	1.584	1.626	-2.7	76	0.00
32	T	Chloroform	1.869	1.854	0.8	76	-0.02
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.820	3.0	82	0.00
34	T	Tetrahydrofuran	0.759	0.698	8.0	75	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.226	2.8	76	0.00
36	T	1,2-Dichloroethane	1.709	1.525	10.8	74	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	87	0.00
38	T	1,1,1-Trichloroethane	0.411	0.373	9.2	74	-0.01
39	T	Isopropyl Acetate	0.169	0.155	8.3	77	0.00
40	T	1-Butanol	0.202	0.120	40.6#	77	0.01
41	T	Benzene	1.053	1.002	4.8	74	0.00
42	T	Carbon Tetrachloride	0.336	0.309	8.0	80	-0.02
43	T	Cyclohexane	0.367	0.361	1.6	77	-0.01
44	T	tert-Amyl Methyl Ether	0.728	0.691	5.1	77	0.00
45	T	1,2-Dichloropropane	0.268	0.243	9.3	77	-0.01
46	T	Bromodichloromethane	0.361	0.325	10.0	78	-0.01
47	T	Trichloroethene	0.238	0.229	3.8	81	0.00
48	T	1,4-Dioxane	0.207	0.176	15.0	75	0.00
49	T	Isooctane	0.987	0.925	6.3	75	0.00
50	T	Methyl Methacrylate	0.102	0.092	9.8	80	0.00
51	T	n-Heptane	0.256	0.240	6.3	77	0.00

LM 12/27/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\20\
Data File : 12200604.D
Acq On : 20 Dec 2006 12:08
Operator : LM
Sample : 1ng TO-15 STD
Misc : S15-12190601/S15-12050604
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 20 12:40:53 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.394	13.4	73	-0.01
53	T	4-Methyl-2-pentanone	0.246	0.210	14.6	73	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.354	16.5	72	0.00
55	T	1,1,2-Trichloroethane	0.261	0.236	9.6	78	-0.02
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	88	0.00
57	S	Toluene-d8 (SS2)	2.035	1.990	2.2	85	-0.01
58	T	Toluene	2.041	1.920	5.9	76	0.00
59	T	2-Hexanone	1.166	0.939	19.5	70	0.00
60	T	Dibromochloromethane	0.515	0.457	11.3	77	0.00
61	T	1,2-Dibromoethane	0.549	0.501	8.7	77	-0.02
62	T	Butyl Acetate	1.288	1.035	19.6	69	0.00
63	T	n-Octane	0.422	0.366	13.3	71	0.00
64	T	Tetrachloroethene	0.450	0.419	6.9	75	0.00
65	T	Chlorobenzene	1.315	1.211	7.9	75	-0.01
66	T	Ethylbenzene	2.390	2.186	8.5	75	-0.01
67	T	m- & p-Xylene	1.538	1.410	8.3	74	0.00
68	T	Bromoform	0.319	0.279	12.5	79	-0.01
69	T	Styrene	1.387	1.224	11.8	76	0.00
70	T	o-Xylene	1.663	1.537	7.6	76	-0.01
71	T	n-Nonane	1.028	0.893	13.1	71	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.705	11.2	75	-0.01
73	S	Bromofluorobenzene (SS3)	0.597	0.678	-13.6	99	0.00
74	T	Cumene	2.142	2.001	6.6	77	0.00
75	T	alpha-Pinene	1.139	0.988	13.3	71	-0.01
76	T	n-Propylbenzene	2.877	2.612	9.2	75	0.00
77	T	3-Ethyltoluene	2.349	2.190	6.8	79	0.00
78	T	4-Ethyltoluene	2.172	1.972	9.2	73	-0.01
79	T	1,3,5-Trimethylbenzene	1.913	1.740	9.0	74	0.00
80	T	alpha-Methylstyrene	1.020	0.856	16.1	74	0.00
81	T	2-Ethyltoluene	2.366	2.200	7.0	76	-0.01
82	T	1,2,4-Trimethylbenzene	1.900	1.740	8.4	76	-0.01
83	T	n-Decane	1.108	0.992	10.5	74	-0.01
84	T	Benzyl Chloride	1.805	1.517	16.0	73	-0.01
85	T	1,3-Dichlorobenzene	1.007	0.928	7.8	76	-0.01
86	T	1,4-Dichlorobenzene	0.977	0.919	5.9	78	0.00
87	T	sec-Butylbenzene	2.519	2.332	7.4	75	0.00
88	T	p-Isopropyltoluene	2.033	1.894	6.8	76	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.708	7.9	76	0.00
90	T	1,2-Dichlorobenzene	0.939	0.895	4.7	79	0.00
91	T	d-Limonene	0.792	0.646	18.4	71	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.270	13.7	82	0.00
93	T	n-Undecane	1.035	0.879	15.1	69	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.166	11.2	74	0.00
95	T	Naphthalene	2.210	1.862	15.7	74	0.00
96	T	n-Dodecane	0.745	0.688	7.7	72	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.279	7.9	79	-0.01

LM 12/27/06

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

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\20\
Data File : 12200615.D
Acq On : 20 Dec 2006 21:06
Operator : LM
Sample : 25ng TO-15 CCV Std
Misc : S15-12050601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 08:29:53 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	84	0.01
2	T	Propene	1.223	0.890	27.2	73	0.00
3	T	Dichlorodifluoromethane	2.559	2.146	16.1	77	0.00
4	T	Chloromethane	2.080	1.754	15.7	77	0.00
5	T	Freon 114	0.675	0.605	10.4	84	0.00
6	T	Vinyl Chloride	1.418	0.977	31.1#	67	0.00
7	T	1,3-Butadiene	1.375	0.848	38.3#	58	0.00
8	T	Bromomethane	1.051	0.860	18.2	78	0.00
9	T	Chloroethane	0.974	0.776	20.3	75	0.00
10	T	Ethanol	0.753	0.777	-3.2	72	0.02
11	T	Acetonitrile	2.237	1.907	14.8	67	0.02
12	T	Acrolein	0.731	0.656	10.3	78	0.02
13	T	Acetone	1.046	0.863	17.5	89	0.02
14	T	Trichlorofluoromethane	1.741	1.503	13.7	76	0.00
15	T	Isopropanol	3.201	2.702	15.6	68	0.02
16	T	Acrylonitrile	1.580	1.435	9.2	74	0.02
17	T	1,1-Dichloroethene	1.172	1.053	10.2	79	0.00
18	T	tert-Butanol	2.959	2.294	22.5	67	0.02
19	T	Methylene Chloride	1.345	1.149	14.6	78	0.01
20	T	Allyl Chloride	1.722	1.475	14.3	71	0.00
21	T	Trichlorotrifluoroethane	0.683	0.478	30.0#	77	0.00
22	T	Carbon Disulfide	4.831	4.096	15.2	78	0.00
23	T	trans-1,2-Dichloroethene	1.881	1.544	17.9	73	0.00
24	T	1,1-Dichloroethane	1.910	1.649	13.7	75	0.01
25	T	Methyl tert-Butyl Ether	3.036	2.357	22.4	77	0.00
26	T	Vinyl Acetate	0.253	0.230	9.1	81	0.01
27	T	2-Butanone	0.805	0.705	12.4	78	0.02
28	T	cis-1,2-Dichloroethene	1.761	1.492	15.3	74	0.01
29	T	Diisopropyl Ether	0.832	0.729	12.4	82	0.01
30	T	Ethyl Acetate	0.404	0.343	15.1	78	0.01
31	T	n-Hexane	1.584	1.206	23.9	78	0.00
32	T	Chloroform	1.869	1.650	11.7	79	0.01
33	S	1,2-Dichloroethane-d4(SS1)	1.877	1.709	9.0	78	0.01
34	T	Tetrahydrofuran	0.759	0.676	10.9	82	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.089	13.6	81	0.00
36	T	1,2-Dichloroethane	1.709	1.421	16.9	74	0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	84	0.01
38	T	1,1,1-Trichloroethane	0.411	0.355	13.6	77	0.00
39	T	Isopropyl Acetate	0.169	0.156	7.7	79	0.00
40	T	1-Butanol	0.202	0.210	-4.0	64	0.00
41	T	Benzene	1.053	0.916	13.0	79	0.00
42	T	Carbon Tetrachloride	0.336	0.303	9.8	78	0.00
43	T	Cyclohexane	0.367	0.313	14.7	80	0.00
44	T	tert-Amyl Methyl Ether	0.728	0.655	10.0	79	0.00
45	T	1,2-Dichloropropane	0.268	0.241	10.1	78	0.00
46	T	Bromodichloromethane	0.361	0.341	5.5	78	0.00
47	T	Trichloroethene	0.238	0.227	4.6	83	0.00
48	T	1,4-Dioxane	0.207	0.195	5.8	77	0.00
49	T	Isooctane	0.987	0.841	14.8	77	0.00
50	T	Methyl Methacrylate	0.102	0.102	0.0	81	0.00
51	T	n-Heptane	0.256	0.223	12.9	78	0.00

LM 12/27/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\20\
Data File : 12200615.D
Acq On : 20 Dec 2006 21:06
Operator : LM
Sample : 25ng TO-15 CCV Std
Misc : S15-12050601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 08:29:53 2006
Quant Method : J:\MS08\METHODS\R8120606.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Dec 07 08:17:50 2006
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	0.455	0.420	7.7	78	0.00
53	T	4-Methyl-2-pentanone	0.246	0.224	8.9	75	0.00
54	T	trans-1,3-Dichloropropene	0.424	0.391	7.8	76	0.00
55	T	1,1,2-Trichloroethane	0.261	0.246	5.7	80	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	84	0.00
57	S	Toluene-d8 (SS2)	2.035	1.966	3.4	82	0.00
58	T	Toluene	2.041	1.849	9.4	79	0.00
59	T	2-Hexanone	1.166	0.998	14.4	70	0.00
60	T	Dibromochloromethane	0.515	0.493	4.3	79	0.00
61	T	1,2-Dibromoethane	0.549	0.521	5.1	79	0.00
62	T	Butyl Acetate	1.288	1.121	13.0	71	0.00
63	T	n-Octane	0.422	0.376	10.9	77	0.00
64	T	Tetrachloroethene	0.450	0.425	5.6	82	0.00
65	T	Chlorobenzene	1.315	1.244	5.4	81	0.00
66	T	Ethylbenzene	2.390	2.242	6.2	79	0.00
67	T	m- & p-Xylene	1.538	1.446	6.0	79	0.00
68	T	Bromoform	0.319	0.325	-1.9	81	0.00
69	T	Styrene	1.387	1.372	1.1	81	0.00
70	T	o-Xylene	1.663	1.566	5.8	79	0.00
71	T	n-Nonane	1.028	0.903	12.2	73	0.00
72	T	1,1,2,2-Tetrachloroethane	0.794	0.738	7.1	77	0.00
73	S	Bromofluorobenzene (SS3)	0.597	0.689	-15.4	96	0.00
74	T	Cumene	2.142	2.042	4.7	80	0.00
75	T	alpha-Pinene	1.139	1.071	6.0	79	0.00
76	T	n-Propylbenzene	2.877	2.733	5.0	79	0.00
77	T	3-Ethyltoluene	2.349	2.256	4.0	80	0.00
78	T	4-Ethyltoluene	2.172	2.054	5.4	79	0.00
79	T	1,3,5-Trimethylbenzene	1.913	1.800	5.9	78	0.00
80	T	alpha-Methylstyrene	1.020	1.000	2.0	78	0.00
81	T	2-Ethyltoluene	2.366	2.242	5.2	78	0.00
82	T	1,2,4-Trimethylbenzene	1.900	1.783	6.2	78	0.00
83	T	n-Decane	1.108	0.969	12.5	73	0.00
84	T	Benzyl Chloride	1.805	1.725	4.4	75	0.00
85	T	1,3-Dichlorobenzene	1.007	0.959	4.8	80	0.00
86	T	1,4-Dichlorobenzene	0.977	0.934	4.4	79	0.00
87	T	sec-Butylbenzene	2.519	2.380	5.5	79	0.00
88	T	p-Isopropyltoluene	2.033	1.902	6.4	78	0.00
89	T	1,2,3-Trimethylbenzene	1.854	1.726	6.9	78	0.00
90	T	1,2-Dichlorobenzene	0.939	0.881	6.2	79	0.00
91	T	d-Limonene	0.792	0.745	5.9	75	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.313	0.303	3.2	74	0.00
93	T	n-Undecane	1.035	0.761	26.5	64	0.00
94	T	1,2,4-Trichlorobenzene	0.187	0.145	22.5	66	0.00
95	T	Naphthalene	2.210	1.696	~~23.3~~	62	0.00
96	T	n-Dodecane	0.745	0.425	43.0#	52	0.00
97	T	Hexachloro-1,3-butadiene	0.303	0.237	21.8	67	0.00

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

LM 12/27/06

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461

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: 12200602.D
Date Analyzed: 12/20/06
Time Analyzed: 09:52

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	394946	9.07	1727818	11.00	923179	15.82
	Upper Limit	552924	9.40	2418945	11.33	1292451	16.15
	Lower Limit	236968	8.74	1036691	10.67	553907	15.49
	Client Sample ID						
01	Method Blank	382760	9.04	1851876	10.98	954993	15.81
02	Lab Control Sample	359436	9.07	1620355	11.00	888887	15.82
03	Duplicate Lab Control Sample	371712	9.07	1705445	11.00	903165	15.82
04	WDI-VW-35-S-12-12-06	340896	9.05	1558002	10.98	885545	15.82
05	WDI-VW-35-D-12-12-06	376615	9.05	1675104	10.99	932556	15.81
06	WDI-VW-58-I-12-14-06	364463	9.04	1460394	10.98	861251	15.81
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

Data not evaluated

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.

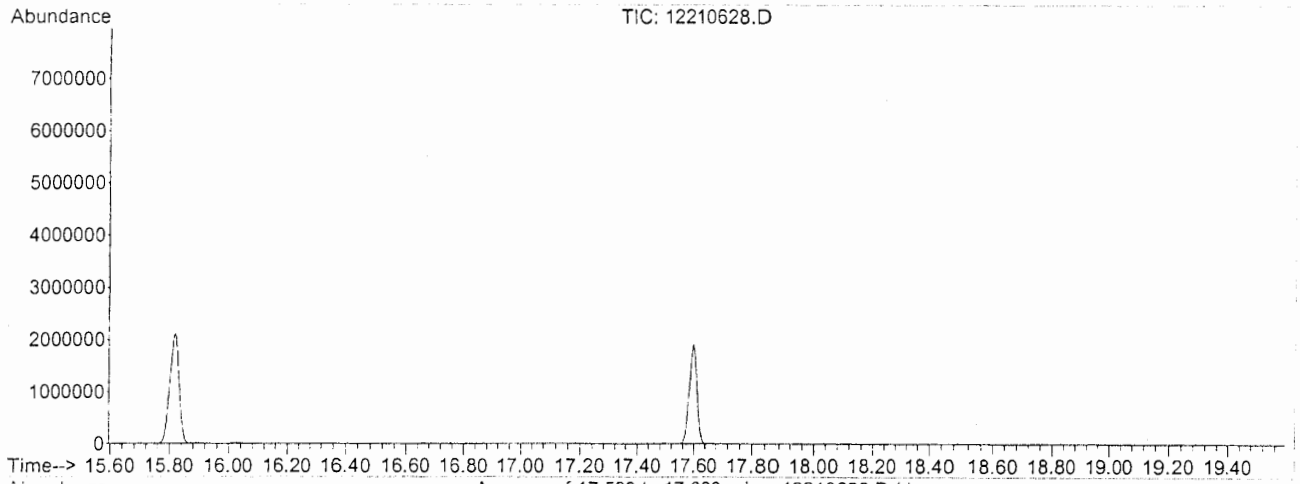
Verified by: ws Date: 1/3/07

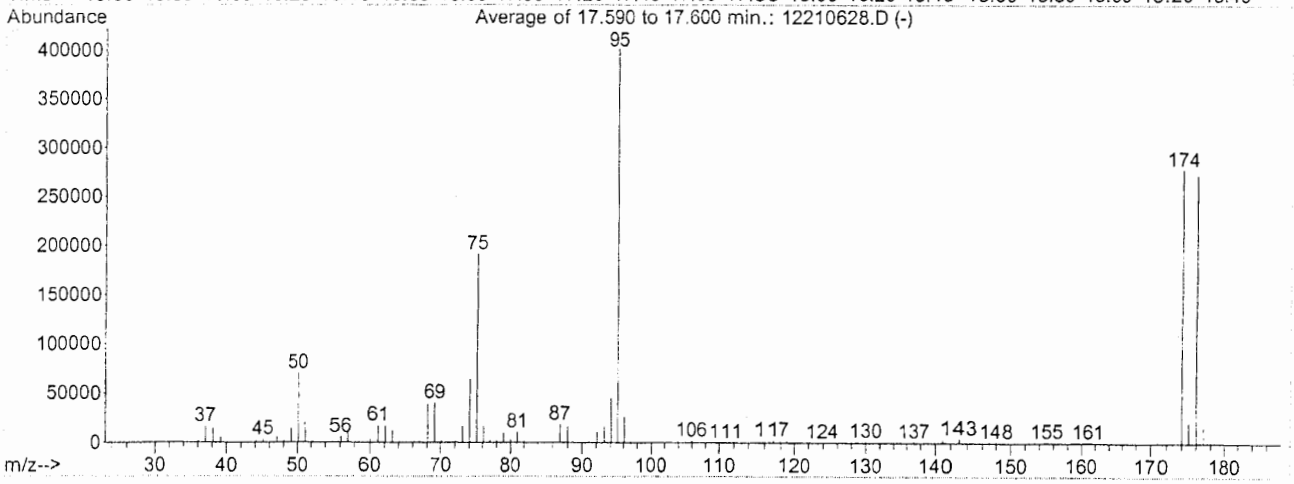
BFB

Data Path : J:\MS08\Data\2006_012\21\
Data File : 12210628.D
Acq On : 22 Dec 2006 4:07
Operator : LM
Sample : TO-15 BFB STD
Misc : S15-12190601
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.4	70200	PASS
75	95	30	66	47.6	191509	PASS
95	95	100	100	100.0	402368	PASS
96	95	5	9	6.4	25920	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	69.1	278080	PASS
175	174	4	9	7.3	20405	PASS
176	174	93	101	97.9	272213	PASS
177	176	5	9	6.7	18154	PASS

LM 12/22/06

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Response Factor Report MS08

Method Path : J:\MS08\METHODS\
Method File : R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006
Response Via : Initial Calibration

Calibration Files
0.5 =12210629.D 1 =12210630.D 5 =12210631.D 25 =12210632.D
50 =12210633.D 100 =12210634.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I ----------ISTD----------								
2)	T	Propene	1.639	1.429	1.261	0.940	0.900	0.843	1.169	27.79
3)	T	Dichlorodifluorom	2.887	2.628	2.425	2.189	2.073	1.945	2.358	15.15
4)	T	Chloromethane	2.014	1.983	1.910	1.806	1.717	1.629	1.843	8.28
5)	T	Freon 114	0.770	0.770	0.659	0.593	0.577	0.521	0.648	16.06
6)	T	Vinyl Chloride	1.470	1.513	1.305	1.050	1.040	1.008	1.231	18.57
7)	T	1,3-Butadiene	1.172	1.151	1.047	0.919	0.902	0.836	1.005	13.88
8)	T	Bromomethane	1.142	1.096	1.010	0.900	0.913	0.927	0.998	10.24
9)	T	Chloroethane	1.066	1.024	0.925	0.827	0.802	0.784	0.905	13.26
10)	T	Ethanol	0.685	0.626	0.687	0.808	0.793	0.796	0.732	10.39
11)	T	Acetonitrile	2.219	2.214	2.071	2.088	2.000	1.974	2.094	4.96
12)	T	Acrolein	0.750	0.686	0.696	0.692	0.674	0.656	0.692	4.57
13)	T	Acetone	1.448	1.192	1.099	0.908	0.921	0.912	1.080	19.89
14)	T	Trichlorofluorome	1.772	1.677	1.613	1.553	1.525	1.484	1.604	6.64
15)	T	Isopropanol	3.312	3.188	2.647	2.980	2.566	2.292	2.831	13.92
16)	T	Acrylonitrile	1.519	1.446	1.431	1.485	1.454	1.419	1.459	2.53
17)	T	1,1-Dichloroethen	1.132	1.098	1.106	1.069	1.043	1.021	1.078	3.86
18)	T	tert-Butanol	3.092	3.021	2.736	2.488	2.271	1.934	2.590	17.28
19)	T	Methylene Chlorid	1.370	1.320	1.232	1.175	1.141	1.119	1.226	8.23
20)	T	Allyl Chloride	1.374	1.311	1.449	1.547	1.511	1.509	1.450	6.30
21)	T	Trichlorotrifluor	0.805	0.805	0.659	0.555	0.611	0.667	0.684	14.92
22)	T	Carbon Disulfide	5.640	5.016	4.511	4.239	4.182	4.018	4.601	13.42
23)	T	trans-1,2-Dichlor	1.757	1.763	1.670	1.631	1.637	1.627	1.681	3.76
24)	T	1,1-Dichloroethan	1.901	1.798	1.690	1.695	1.638	1.585	1.718	6.66
25)	T	Methyl tert-Butyl	3.394	3.372	2.838	2.611	2.652	2.597	2.911	12.91
26)	T	Vinyl Acetate	0.254	0.265	0.244	0.238	0.241	0.236	0.246	4.52
27)	T	2-Butanone	0.771	0.766	0.757	0.761	0.760	0.753	0.761	0.86
28)	T	cis-1,2-Dichloroe	1.683	1.603	1.535	1.525	1.526	1.498	1.562	4.43
29)	T	Diisopropyl Ether	0.950	0.913	0.812	0.769	0.764	0.734	0.824	10.68
30)	T	Ethyl Acetate	0.358	0.407	0.388	0.370	0.364	0.353	0.373	5.51
31)	T	n-Hexane	1.888	1.846	1.523	1.337	1.371	1.333	1.550	16.50
32)	T	Chloroform	1.990	1.926	1.661	1.680	1.554	1.460	1.712	12.12
33)	S	1,2-Dichloroethan	1.849	1.894	1.770	1.773	1.733	1.676	1.783	4.40
34)	T	Tetrahydrofuran	0.774	0.796	0.757	0.741	0.743	0.636	0.741	7.49
35)	T	Ethyl tert-Butyl	1.347	1.326	1.179	1.156	1.144	1.124	1.213	8.06
36)	T	1,2-Dichloroethan	1.628	1.627	1.514	1.496	1.502	1.417	1.531	5.37
37)	IR	1,4-Difluorobenzene (----------ISTD----------								
38)	T	1,1,1-Trichloroet	0.402	0.395	0.364	0.371	0.364	0.364	0.377	4.63
39)	T	Isopropyl Acetate	0.157	0.148	0.149	0.159	0.152	0.148	0.152	3.05
40)	T	1-Butanol	0.157	0.149	0.166	0.216	0.201	0.192	0.180	14.79
41)	T	Benzene	1.102	1.033	0.953	0.938	0.909	0.896	0.972	8.21
42)	T	Carbon Tetrachlor	0.330	0.325	0.308	0.317	0.313	0.315	0.318	2.60
43)	T	Cyclohexane	0.405	0.398	0.338	0.330	0.329	0.330	0.355	10.14
44)	T	tert-Amyl Methyl	0.712	0.693	0.650	0.669	0.646	0.629	0.666	4.70
45)	T	1,2-Dichloropropa	0.266	0.246	0.242	0.246	0.237	0.235	0.246	4.46
46)	T	Bromodichlorometh	0.332	0.330	0.331	0.343	0.328	0.326	0.332	1.80
47)	T	Trichloroethene	0.251	0.235	0.228	0.229	0.221	0.217	0.230	5.25
48)	T	1,4-Dioxane	0.181	0.181	0.187	0.201	0.190	0.182	0.187	4.19
49)	T	Isooctane	0.991	0.947	0.869	0.873	0.843	0.818	0.890	7.39
50)	T	Methyl Methacryla	0.094	0.088	0.092	0.102	0.098	0.096	0.095	5.42
51)	T	n-Heptane	0.255	0.245	0.232	0.227	0.221	0.216	0.233	6.36
52)	T	cis-1,3-Dichlorop	0.418	0.408	0.412	0.425	0.406	0.389	0.410	3.00
53)	T	4-Methyl-2-pentan	0.217	0.221	0.228	0.226	0.216	0.202	0.218	4.32
54)	T	trans-1,3-Dichlor	0.372	0.372	0.373	0.395	0.381	0.373	0.377	2.50
55)	T	1,1,2-Trichloroet	0.256	0.250	0.239	0.245	0.237	0.230	0.243	3.95
56)	I	Chlorobenzene-d5 (IS3 ----------ISTD----------								
57)	S	Toluene-d8 (SS2)	1.978	1.986	1.965	1.979	2.003	2.009	1.986	0.83

Method Path : J:\MS08\METHODS\
Method File : R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006
Response Via : Initial Calibration

Calibration Files
0.5 =12210629.D 1 =12210630.D 5 =12210631.D 25 =12210632.D
50 =12210633.D 100 =12210634.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
58)	T	Toluene	2.029	1.911	1.865	1.857	1.796	1.701	1.860	5.92
59)	T	2-Hexanone	0.985	1.010	1.028	1.029	0.994	0.930	0.996	3.68
60)	T	Dibromochlorometh	0.473	0.473	0.476	0.496	0.484	0.468	0.478	2.10
61)	T	1,2-Dibromoethane	0.530	0.504	0.512	0.528	0.510	0.492	0.513	2.83
62)	T	Butyl Acetate	1.023	1.067	1.091	1.134	1.113	1.046	1.079	3.86
63)	T	n-Octane	0.394	0.370	0.374	0.382	0.369	0.344	0.372	4.52
64)	T	Tetrachloroethene	0.477	0.434	0.422	0.427	0.412	0.402	0.429	6.08
65)	T	Chlorobenzene	1.334	1.278	1.199	1.227	1.186	1.131	1.226	5.86
66)	T	Ethylbenzene	2.241	2.186	2.180	2.215	2.123	2.002	2.158	3.99
67)	T	m- & p-Xylene	1.468	1.428	1.421	1.438	1.365	1.272	1.399	5.05
68)	T	Bromoform	0.290	0.305	0.302	0.325	0.313	0.301	0.306	3.96
69)	T	Styrene	1.280	1.272	1.296	1.359	1.302	1.221	1.288	3.47
70)	T	o-Xylene	1.570	1.558	1.539	1.570	1.482	1.380	1.517	4.93
71)	T	n-Nonane	0.894	0.881	0.879	0.919	0.866	0.802	0.874	4.49
72)	T	1,1,2,2-Tetrachlo	0.735	0.726	0.733	0.756	0.719	0.680	0.725	3.47
73)	S	Bromofluorobenzen	0.685	0.683	0.681	0.687	0.672	0.658	0.678	1.63
74)	T	Cumene	2.092	1.970	1.928	2.042	1.925	1.799	1.959	5.24
75)	T	alpha-Pinene	1.000	1.008	1.019	1.074	1.034	0.978	1.019	3.20
76)	T	n-Propylbenzene	2.645	2.589	2.588	2.753	2.577	2.371	2.587	4.82
77)	T	3-Ethyltoluene	2.139	2.085	2.124	2.264	2.079	2.020	2.119	3.89
78)	T	4-Ethyltoluene	2.096	2.076	2.048	2.068	1.973	1.763	2.004	6.27
79)	T	1,3,5-Trimethylbe	1.813	1.784	1.776	1.822	1.707	1.589	1.749	5.04
80)	T	alpha-Methylstyre	0.837	0.838	0.893	1.019	0.965	0.910	0.910	7.86
81)	T	2-Ethyltoluene	2.258	2.180	2.156	2.269	2.115	1.966	2.157	5.13
82)	T	1,2,4-Trimethylbe	1.807	1.777	1.800	1.826	1.689	1.580	1.747	5.42
83)	T	n-Decane	0.967	0.973	0.949	1.013	0.932	0.854	0.948	5.67
84)	T	Benzyl Chloride	1.570	1.609	1.687	1.785	1.683	1.559	1.649	5.21
85)	T	1,3-Dichlorobenze	0.990	0.957	0.964	0.978	0.930	0.866	0.947	4.72
86)	T	1,4-Dichlorobenze	0.973	0.957	0.929	0.955	0.894	0.835	0.924	5.57
87)	T	sec-Butylbenzene	2.368	2.349	2.313	2.432	2.253	2.058	2.296	5.69
88)	T	p-Isopropyltoluen	1.898	1.854	1.847	1.976	1.824	1.655	1.842	5.77
89)	T	1,2,3-Trimethylbe	1.703	1.665	1.664	1.783	1.640	1.528	1.664	5.00
90)	T	1,2-Dichlorobenze	0.944	0.932	0.913	0.915	0.859	0.780	0.891	6.92
91)	T	d-Limonene	0.645	0.655	0.687	0.778	0.718	0.661	0.691	7.27
92)	T	1,2-Dibromo-3-Chl	0.241	0.247	0.286	0.339	0.319	0.300	0.289	13.49
93)	T	n-Undecane	0.761	0.789	0.797	0.890	0.807	0.755	0.800	6.08
94)	T	1,2,4-Trichlorobe	0.154	0.166	0.180	0.189	0.179	0.171	0.173	7.15
95)	T	Naphthalene	1.498	1.709	1.878	2.227	2.084	1.980	1.896	13.87
96)	T	n-Dodecane	0.499	0.567	0.553	0.566	0.534	0.514	0.539	5.23
97)	T	Hexachloro-1,3-bu	0.265	0.284	0.292	0.308	0.294	0.280	0.287	5.10

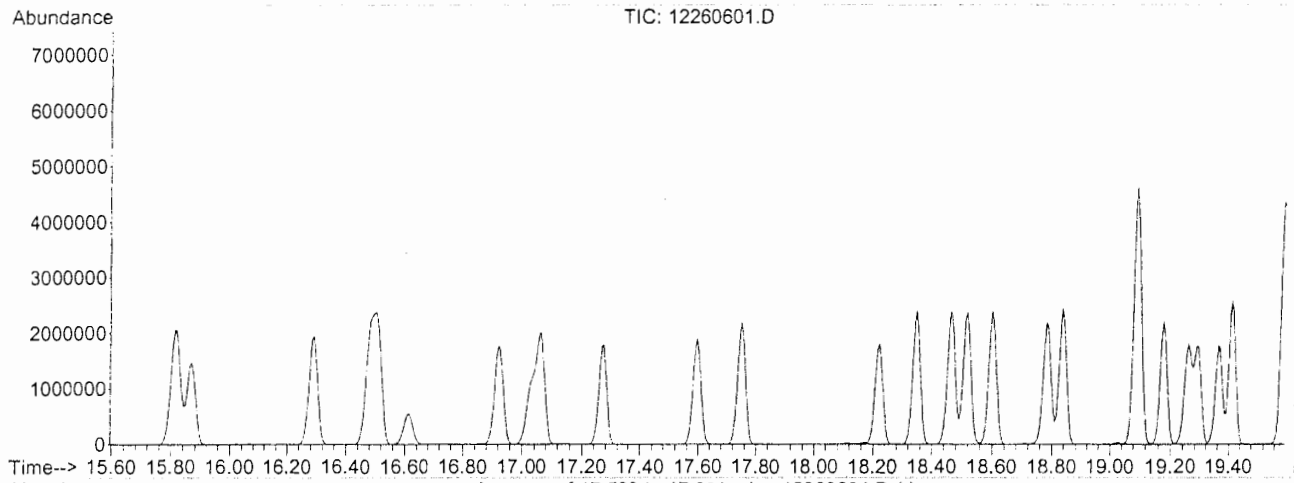
(#) = Out of Range

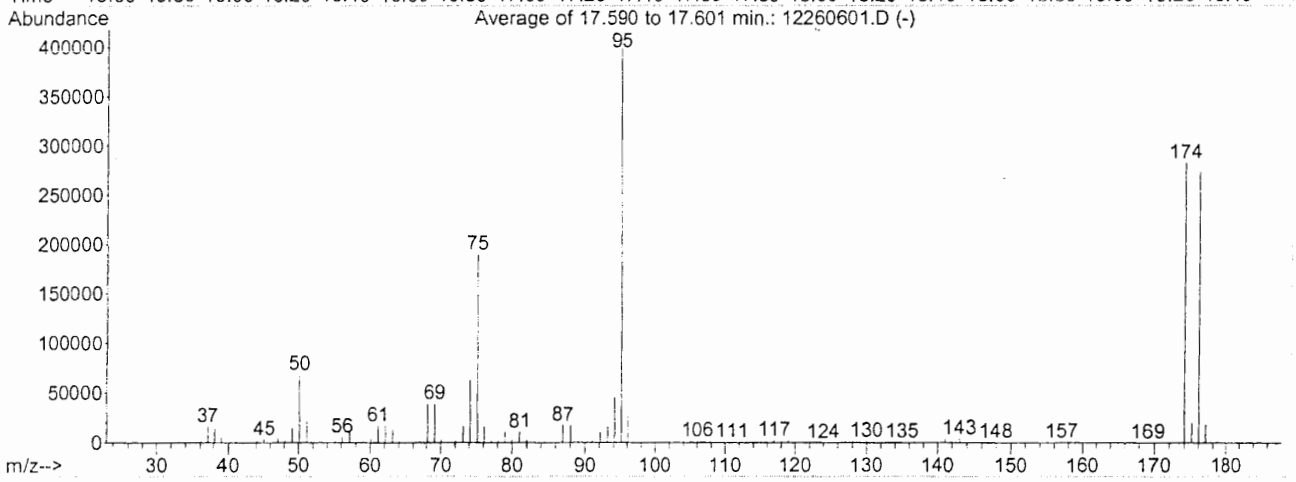
Data Path : J:\MS08\Data\2006_012\26\
Data File : 12260601.D
Acq On : 26 Dec 2006 8:49
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2488

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.3	68858	PASS
75	95	30	66	47.7	189994	PASS
95	95	100	100	100.0	398250	PASS
96	95	5	9	6.6	26421	PASS
173	174	0.00	2	0.2	597	PASS
174	95	50	120	70.9	282304	PASS
175	174	4	9	7.2	20456	PASS
176	174	93	101	96.7	273066	PASS
177	176	5	9	6.6	18104	PASS

LM 12/27/06

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\26\
Data File : 12260601.D
Acq On : 26 Dec 2006 8:49
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 17:22:50 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	113	0.00
2	T	Propene	1.169	0.945	19.2	114	0.00
3	T	Dichlorodifluoromethane	2.358	2.219	5.9	115	0.00
4	T	Chloromethane	1.843	1.756	4.7	110	0.00
5	T	Freon 114	0.648	0.625	3.5	120	0.00
6	T	Vinyl Chloride	1.231	1.069	13.2	116	0.00
7	T	1,3-Butadiene	1.005	0.882	12.2	109	0.00
8	T	Bromomethane	0.998	0.895	10.3	113	0.00
9	T	Chloroethane	0.905	0.789	12.8	108	0.00
10	T	Ethanol	0.732	0.773	-5.6	108	0.01
11	T	Acetonitrile	2.094	1.931	7.8	105	0.00
12	T	Acrolein	0.692	0.660	4.6	108	0.00
13	T	Acetone	1.080	0.880	18.5	110	0.00
14	T	Trichlorofluoromethane	1.604	1.541	3.9	113	0.00
15	T	Isopropanol	2.831	2.793	1.3	106	0.00
16	T	Acrylonitrile	1.459	1.411	3.3	108	0.00
17	T	1,1-Dichloroethene	1.078	1.037	3.8	110	0.00
18	T	tert-Butanol	2.590	2.479	4.3	113	0.00
19	T	Methylene Chloride	1.226	1.124	8.3	108	0.00
20	T	Allyl Chloride	1.450	1.488	-2.6	109	0.00
21	T	Trichlorotrifluoroethane	0.684	0.527	23.0	108	0.00
22	T	Carbon Disulfide	4.601	4.069	11.6	109	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.543	8.2	107	0.00
24	T	1,1-Dichloroethane	1.718	1.629	5.2	109	0.00
25	T	Methyl tert-Butyl Ether	2.911	2.450	15.8	106	0.00
26	T	Vinyl Acetate	0.246	0.228	7.3	108	0.00
27	T	2-Butanone	0.761	0.705	7.4	105	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.443	7.6	107	0.00
29	T	Diisopropyl Ether	0.824	0.703	14.7	104	0.00
30	T	Ethyl Acetate	0.373	0.332	11.0	102	0.00
31	T	n-Hexane	1.550	1.183	23.7	100	0.00
32	T	Chloroform	1.712	1.583	7.5	107	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.701	4.6	109	0.00
34	T	Tetrahydrofuran	0.741	0.654	11.7	100	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.064	12.3	104	0.00
36	T	1,2-Dichloroethane	1.531	1.377	10.1	104	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	110	0.00
38	T	1,1,1-Trichloroethane	0.377	0.348	7.7	103	0.00
39	T	Isopropyl Acetate	0.152	0.149	2.0	103	-0.01
40	T	1-Butanol	0.180	0.198	-10.0	101	0.00
41	T	Benzene	0.972	0.891	8.3	105	0.00
42	T	Carbon Tetrachloride	0.318	0.298	6.3	104	0.00
43	T	Cyclohexane	0.355	0.306	13.8	102	0.00
44	T	tert-Amyl Methyl Ether	0.666	0.629	5.6	104	0.00
45	T	1,2-Dichloropropane	0.246	0.229	6.9	102	0.00
46	T	Bromodichloromethane	0.332	0.330	0.6	106	0.00
47	T	Trichloroethene	0.230	0.219	4.8	106	0.00
48	T	1,4-Dioxane	0.187	0.188	-0.5	103	0.00
49	T	Isooctane	0.890	0.790	11.2	100	0.00
50	T	Methyl Methacrylate	0.095	0.097	-2.1	105	0.00
51	T	n-Heptane	0.233	0.210	9.9	102	0.00

LM 12/27/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\26\
Data File : 12260601.D
Acq On : 26 Dec 2006 8:49
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 17:22:50 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.399	2.7	104	0.00
53	T	4-Methyl-2-pentanone	0.218	0.208	4.6	102	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.372	1.3	104	0.00
55	T	1,1,2-Trichloroethane	0.243	0.231	4.9	104	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	108	0.00
57	S	Toluene-d8 (SS2)	1.986	1.983	0.2	109	0.00
58	T	Toluene	1.860	1.783	4.1	104	0.00
59	T	2-Hexanone	0.996	0.956	4.0	101	0.00
60	T	Dibromochloromethane	0.478	0.478	0.0	105	0.00
61	T	1,2-Dibromoethane	0.513	0.507	1.2	104	0.00
62	T	Butyl Acetate	1.079	1.066	1.2	102	0.00
63	T	n-Octane	0.372	0.363	2.4	103	0.00
64	T	Tetrachloroethene	0.429	0.412	4.0	105	0.00
65	T	Chlorobenzene	1.226	1.188	3.1	105	0.00
66	T	Ethylbenzene	2.158	2.122	1.7	104	0.00
67	T	m- & p-Xylene	1.399	1.379	1.4	104	0.00
68	T	Bromoform	0.306	0.313	-2.3	104	0.00
69	T	Styrene	1.288	1.306	-1.4	104	0.00
70	T	o-Xylene	1.517	1.500	1.1	103	0.00
71	T	n-Nonane	0.874	0.865	1.0	102	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.709	2.2	102	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.684	-0.9	108	0.00
74	T	Cumene	1.959	1.941	0.9	103	0.00
75	T	alpha-Pinene	1.019	1.013	0.6	102	0.00
76	T	n-Propylbenzene	2.587	2.595	-0.3	102	0.00
77	T	3-Ethyltoluene	2.119	2.127	-0.4	102	0.00
78	T	4-Ethyltoluene	2.004	1.983	1.0	104	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.731	1.0	103	0.00
80	T	alpha-Methylstyrene	0.910	0.957	-5.2	102	0.00
81	T	2-Ethyltoluene	2.157	2.151	0.3	103	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.724	1.3	102	0.00
83	T	n-Decane	0.948	0.946	0.2	101	0.00
84	T	Benzyl Chloride	1.649	1.654	-0.3	100	0.00
85	T	1,3-Dichlorobenzene	0.947	0.929	1.9	103	0.00
86	T	1,4-Dichlorobenzene	0.924	0.898	2.8	102	0.00
87	T	sec-Butylbenzene	2.296	2.289	0.3	102	0.00
88	T	p-Isopropyltoluene	1.842	1.868	-1.4	102	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.680	-1.0	102	0.00
90	T	1,2-Dichlorobenzene	0.891	0.862	3.3	102	0.00
91	T	d-Limonene	0.691	0.715	-3.5	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.312	-8.0	100	0.00
93	T	n-Undecane	0.800	0.791	1.1	96	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.172	0.6	98	0.00
95	T	Naphthalene	1.896	2.038	-7.5	99	0.00
96	T	n-Dodecane	0.539	0.526	2.4	101	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.282	1.7	99	0.00

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

12/27/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\26\
Data File : 12260603.D
Acq On : 26 Dec 2006 11:05
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 02 13:16:27 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	110	-0.02
2	T	Propene	1.169	1.307	-11.8	100	0.01
3	T	Dichlorodifluoromethane	2.358	2.485	-5.4	104	0.01
4	T	Chloromethane	1.843	1.839	0.2	102	0.00
5	T	Freon 114	0.648	0.729	-12.5	104	0.00
6	T	Vinyl Chloride	1.231	1.363	-10.7	99	0.00
7	T	1,3-Butadiene	1.005	1.073	-6.8	102	0.00
8	T	Bromomethane	0.998	1.076	-7.8	108	0.00
9	T	Chloroethane	0.905	0.934	-3.2	100	0.00
10	T	Ethanol	0.732	0.638	12.8	112	-0.03
11	T	Acetonitrile	2.094	2.049	2.1	101	0.00
12	T	Acrolein	0.692	0.686	0.9	110	0.00
13	T	Acetone	1.080	1.316	-21.9	121	0.00
14	T	Trichlorofluoromethane	1.604	1.664	-3.7	109	0.00
15	T	Isopropanol	2.831	3.029	-7.0	104	-0.03
16	T	Acrylonitrile	1.459	1.396	4.3	106	-0.01
17	T	1,1-Dichloroethene	1.078	1.053	2.3	105	0.00
18	T	tert-Butanol	2.590	2.919	-12.7	106	0.00
19	T	Methylene Chloride	1.226	1.248	-1.8	104	-0.01
20	T	Allyl Chloride	1.450	1.328	8.4	111	-0.01
21	T	Trichlorotrifluoroethane	0.684	0.723	-5.7	98	0.00
22	T	Carbon Disulfide	4.601	4.662	-1.3	102	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.595	5.1	99	-0.02
24	T	1,1-Dichloroethane	1.718	1.790	-4.2	109	-0.02
25	T	Methyl tert-Butyl Ether	2.911	3.071	-5.5	100	0.00
26	T	Vinyl Acetate	0.246	0.245	0.4	101	-0.01
27	T	2-Butanone	0.761	0.725	4.7	104	-0.02
28	T	cis-1,2-Dichloroethene	1.562	1.517	2.9	104	-0.03
29	T	Diisopropyl Ether	0.824	0.851	-3.3	102	-0.02
30	T	Ethyl Acetate	0.373	0.372	0.3	100	-0.02
31	T	n-Hexane	1.550	1.613	-4.1	96	-0.01
32	T	Chloroform	1.712	1.807	-5.5	103	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.826	-2.4	106	-0.02
34	T	Tetrahydrofuran	0.741	0.714	3.6	98	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.220	-0.6	101	-0.01
36	T	1,2-Dichloroethane	1.531	1.509	1.4	102	-0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	105	-0.01

LM 1/02/07

Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\26\
Data File : 12260603.D
Acq On : 26 Dec 2006 11:05
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 02 13:16:27 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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)
38	T	1,1,1-Trichloroethane	0.377	0.389	-3.2	104	-0.01
39	T	Isopropyl Acetate	0.152	0.141	7.2	101	-0.01
40	T	1-Butanol	0.180	0.147	18.3	104	0.01
41	T	Benzene	0.972	1.030	-6.0	105	-0.01
42	T	Carbon Tetrachloride	0.318	0.306	3.8	99	-0.02
43	T	Cyclohexane	0.355	0.360	-1.4	96	-0.01
44	T	tert-Amyl Methyl Ether	0.666	0.647	2.9	98	0.00
45	T	1,2-Dichloropropane	0.246	0.238	3.3	102	-0.02
46	T	Bromodichloromethane	0.332	0.317	4.5	101	-0.02
47	T	Trichloroethene	0.230	0.225	2.2	101	-0.01
48	T	1,4-Dioxane	0.187	0.179	4.3	104	0.00
49	T	Isooctane	0.890	0.881	1.0	98	-0.01
50	T	Methyl Methacrylate	0.095	0.088	7.4	106	0.00
51	T	n-Heptane	0.233	0.235	-0.9	101	-0.01
52	T	cis-1,3-Dichloropropene	0.410	0.392	4.4	101	-0.01
53	T	4-Methyl-2-pentanone	0.218	0.209	4.1	100	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.357	5.3	101	-0.01
55	T	1,1,2-Trichloroethane	0.243	0.228	6.2	96	-0.01
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	106	0.00
57	S	Toluene-d8 (SS2)	1.986	1.995	-0.5	106	-0.01
58	T	Toluene	1.860	1.892	-1.7	104	-0.01
59	T	2-Hexanone	0.996	0.971	2.5	101	0.00
60	T	Dibromochloromethane	0.478	0.459	4.0	102	-0.01
61	T	1,2-Dibromoethane	0.513	0.498	2.9	104	0.00
62	T	Butyl Acetate	1.079	0.981	9.1	97	0.00
63	T	n-Octane	0.372	0.369	0.8	105	-0.01
64	T	Tetrachloroethene	0.429	0.423	1.4	103	-0.01
65	T	Chlorobenzene	1.226	1.223	0.2	101	0.00
66	T	Ethylbenzene	2.158	2.106	2.4	102	-0.01
67	T	m- & p-Xylene	1.399	1.390	0.6	103	-0.01
68	T	Bromoform	0.306	0.279	8.8	97	0.00
69	T	Styrene	1.288	1.186	7.9	98	0.00
70	T	o-Xylene	1.517	1.474	2.8	100	-0.01
71	T	n-Nonane	0.874	0.856	2.1	102	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.695	4.1	101	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.670	1.2	103	0.00
74	T	Cumene	1.959	1.915	2.2	103	0.00

MHC 2/02

Data Path : J:\MS08\DATA\2006_012\26\
Data File : 12260603.D
Acq On : 26 Dec 2006 11:05
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 02 13:16:27 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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)
75 T	alpha-Pinene	1.019	0.952	6.6	100	0.00
76 T	n-Propylbenzene	2.587	2.493	3.6	102	0.00
77 T	3-Ethyltoluene	2.119	2.101	0.8	106	0.00
78 T	4-Ethyltoluene	2.004	1.917	4.3	97	-0.01
79 T	1,3,5-Trimethylbenzene	1.749	1.721	1.6	102	0.00
80 T	alpha-Methylstyrene	0.910	0.791	13.1	100	0.00
81 T	2-Ethyltoluene	2.157	2.087	3.2	101	-0.01
82 T	1,2,4-Trimethylbenzene	1.747	1.715	1.8	102	-0.01
83 T	n-Decane	0.948	0.900	5.1	98	-0.01
84 T	Benzyl Chloride	1.649	1.469	10.9	96	0.00
85 T	1,3-Dichlorobenzene	0.947	0.918	3.1	101	0.00
86 T	1,4-Dichlorobenzene	0.924	0.908	1.7	100	0.00
87 T	sec-Butylbenzene	2.296	2.222	3.2	100	-0.01
88 T	p-Isopropyltoluene	1.842	1.781	3.3	101	0.00
89 T	1,2,3-Trimethylbenzene	1.664	1.599	3.9	101	0.00
90 T	1,2-Dichlorobenzene	0.891	0.852	4.4	97	0.00
91 T	d-Limonene	0.691	0.608	12.0	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.289	0.233	19.4	99	0.00
93 T	n-Undecane	0.800	0.738	7.8	99	0.00
94 T	1,2,4-Trichlorobenzene	0.173	0.157	9.2	100	0.00
95 T	Naphthalene	1.896	1.627	14.2	100	0.00
96 T	n-Dodecane	0.539	0.580	-7.6	108	0.00
97 T	Hexachloro-1,3-butadiene	0.287	0.259	9.8	96	0.00

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

LM 1/02/07

Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\26\
Data File : 12260615.D
Acq On : 26 Dec 2006 20:20
Operator : LM
Sample : 25ng TO-15 CCV
Misc : S15-12190601/S15-12150607(closing CCV)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 02 13:19:27 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	102	0.00
2	T	Propene	1.169	0.932	20.3	101	0.00
3	T	Dichlorodifluoromethane	2.358	2.230	5.4	104	0.00
4	T	Chloromethane	1.843	1.817	1.4	102	0.00
5	T	Freon 114	0.648	0.594	8.3	102	0.00
6	T	Vinyl Chloride	1.231	1.047	14.9	102	0.00
7	T	1,3-Butadiene	1.005	0.943	6.2	105	0.00
8	T	Bromomethane	0.998	0.899	9.9	102	0.00
9	T	Chloroethane	0.905	0.827	8.6	102	0.00
10	T	Ethanol	0.732	0.841	-14.9	106	0.00
11	T	Acetonitrile	2.094	2.128	-1.6	104	0.00
12	T	Acrolein	0.692	0.701	-1.3	103	0.00
13	T	Acetone	1.080	0.932	13.7	105	0.00
14	T	Trichlorofluoromethane	1.604	1.607	-0.2	105	0.00
15	T	Isopropanol	2.831	3.103	-9.6	106	0.00
16	T	Acrylonitrile	1.459	1.515	-3.8	104	0.00
17	T	1,1-Dichloroethene	1.078	1.048	2.8	100	0.00
18	T	tert-Butanol	2.590	2.614	-0.9	107	0.00
19	T	Methylene Chloride	1.226	1.160	5.4	101	0.00
20	T	Allyl Chloride	1.450	1.632	-12.6	107	0.00
21	T	Trichlorotrifluoroethane	0.684	0.491	28.2	90	0.00
22	T	Carbon Disulfide	4.601	4.192	8.9	101	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.639	2.5	102	0.00
24	T	1,1-Dichloroethane	1.718	1.742	-1.4	105	0.00
25	T	Methyl tert-Butyl Ether	2.911	2.578	11.4	101	0.00
26	T	Vinyl Acetate	0.246	0.238	3.3	102	0.00
27	T	2-Butanone	0.761	0.753	1.1	101	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.580	-1.2	106	0.00
29	T	Diisopropyl Ether	0.824	0.723	12.3	96	0.00
30	T	Ethyl Acetate	0.373	0.366	1.9	101	0.00
31	T	n-Hexane	1.550	1.285	17.1	98	0.00
32	T	Chloroform	1.712	1.706	0.4	103	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.929	-8.2	111	0.00
34	T	Tetrahydrofuran	0.741	0.717	3.2	99	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.130	6.8	100	0.00
36	T	1,2-Dichloroethane	1.531	1.543	-0.8	105	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	105	0.00

Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\26\
Data File : 12260615.D
Acq On : 26 Dec 2006 20:20
Operator : LM
Sample : 25ng TO-15 CCV
Misc : S15-12190601/S15-12150607(closing CCV)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 02 13:19:27 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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)
38	T	1,1,1-Trichloroethane	0.377	0.351	6.9	100	0.00
39	T	Isopropyl Acetate	0.152	0.156	-2.6	103	0.00
40	T	1-Butanol	0.180	0.213	-18.3	104	0.00
41	T	Benzene	0.972	0.892	8.2	100	0.00
42	T	Carbon Tetrachloride	0.318	0.302	5.0	101	0.00
43	T	Cyclohexane	0.355	0.309	13.0	99	0.00
44	T	tert-Amyl Methyl Ether	0.666	0.642	3.6	101	0.00
45	T	1,2-Dichloropropane	0.246	0.236	4.1	101	0.00
46	T	Bromodichloromethane	0.332	0.329	0.9	101	0.00
47	T	Trichloroethene	0.230	0.223	3.0	103	0.00
48	T	1,4-Dioxane	0.187	0.193	-3.2	101	0.00
49	T	Isooctane	0.890	0.818	8.1	99	0.00
50	T	Methyl Methacrylate	0.095	0.100	-5.3	103	0.00
51	T	n-Heptane	0.233	0.217	6.9	100	0.00
52	T	cis-1,3-Dichloropropene	0.410	0.415	-1.2	103	0.00
53	T	4-Methyl-2-pentanone	0.218	0.220	-0.9	102	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.384	-1.9	102	0.00
55	T	1,1,2-Trichloroethane	0.243	0.241	0.8	104	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	108	0.00
57	S	Toluene-d8 (SS2)	1.986	1.950	1.8	107	0.00
58	T	Toluene	1.860	1.768	4.9	103	0.00
59	T	2-Hexanone	0.996	0.973	2.3	102	0.00
60	T	Dibromochloromethane	0.478	0.472	1.3	103	0.00
61	T	1,2-Dibromoethane	0.513	0.501	2.3	103	0.00
62	T	Butyl Acetate	1.079	1.104	-2.3	106	0.00
63	T	n-Octane	0.372	0.368	1.1	104	0.00
64	T	Tetrachloroethene	0.429	0.398	7.2	101	0.00
65	T	Chlorobenzene	1.226	1.137	7.3	100	0.00
66	T	Ethylbenzene	2.158	2.093	3.0	102	0.00
67	T	m- & p-Xylene	1.399	1.370	2.1	103	0.00
68	T	Bromoform	0.306	0.297	2.9	99	0.00
69	T	Styrene	1.288	1.256	2.5	100	0.00
70	T	o-Xylene	1.517	1.486	2.0	103	0.00
71	T	n-Nonane	0.874	0.918	-5.0	108	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.704	2.9	101	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.646	4.7	102	0.00
74	T	Cumene	1.959	1.902	2.9	101	0.00

Data Path : J:\MS08\DATA\2006_012\26\
Data File : 12260615.D
Acq On : 26 Dec 2006 20:20
Operator : LM
Sample : 25ng TO-15 CCV
Misc : S15-12190601/S15-12150607(closing CCV)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 02 13:19:27 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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)
75	T	alpha-Pinene	1.019	1.001	1.8	101	0.00
76	T	n-Propylbenzene	2.587	2.578	0.3	102	0.00
77	T	3-Ethyltoluene	2.119	2.125	-0.3	102	0.00
78	T	4-Ethyltoluene	2.004	1.916	4.4	100	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.712	2.1	102	0.00
80	T	alpha-Methylstyrene	0.910	0.931	-2.3	99	0.00
81	T	2-Ethyltoluene	2.157	2.150	0.3	103	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.732	0.9	103	0.00
83	T	n-Decane	0.948	0.967	-2.0	103	0.00
84	T	Benzyl Chloride	1.649	1.689	-2.4	103	0.00
85	T	1,3-Dichlorobenzene	0.947	0.902	4.8	100	0.00
86	T	1,4-Dichlorobenzene	0.924	0.875	5.3	99	0.00
87	T	sec-Butylbenzene	2.296	2.270	1.1	101	0.00
88	T	p-Isopropyltoluene	1.842	1.823	1.0	100	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.671	-0.4	102	0.00
90	T	1,2-Dichlorobenzene	0.891	0.829	7.0	98	0.00
91	T	d-Limonene	0.691	0.735	-6.4	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.304	-5.2	97	0.00
93	T	n-Undecane	0.800	0.833	-4.1	101	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.172	0.6	99	0.00
95	T	Naphthalene	1.896	2.054	-8.3	100	0.00
96	T	n-Dodecane	0.539	0.563	-4.5	108	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.279	2.8	98	0.00

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

1/11/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603461

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: 12260601.D
Date Analyzed: 12/26/06
Time Analyzed: 08:49

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	377041	9.06	1610061	11.00	862111	15.81
	Upper Limit	527857	9.39	2254085	11.33	1206955	16.14
	Lower Limit	226225	8.73	966037	10.67	517267	15.48
	Client Sample ID						
01	Method Blank	366406	9.04	1774147	10.98	898845	15.81
02	Lab Control Sample	355339	9.07	1566334	11.00	844891	15.82
03	Duplicate Lab Control Sample	357434	9.07	1583740	11.00	858465	15.82
04	WDI-VW-58-S-12-14-06	369139	9.05	1666783	10.98	888073	15.81
05	WDI-VW-58-S-12-14-06 (Lab Duplicate)	345807	9.05	1604159	10.98	871851	15.81
06	WDI-VW-58-S-12-14-06-SC	349630	9.05	1593113	10.98	872941	15.81
07	WDI-VW-58-S-12-14-06-SC (Dilution)	346272	9.05	1592289	10.98	895843	15.81
08	WDI-VW-58-D-12-14-06	319179	9.05	1483020	10.98	832597	15.81
09	WDI-VW-39-S-12-14-06	337819	9.05	1403385	10.98	814190	15.81
10	WDI-VW-39-D-12-14-06	342341	9.05	1518033	10.98	861660	15.81
11	WDI-VW-38-S-12-14-06	336363	9.05	1556220	10.98	872026	15.81
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

Data not evaluated

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

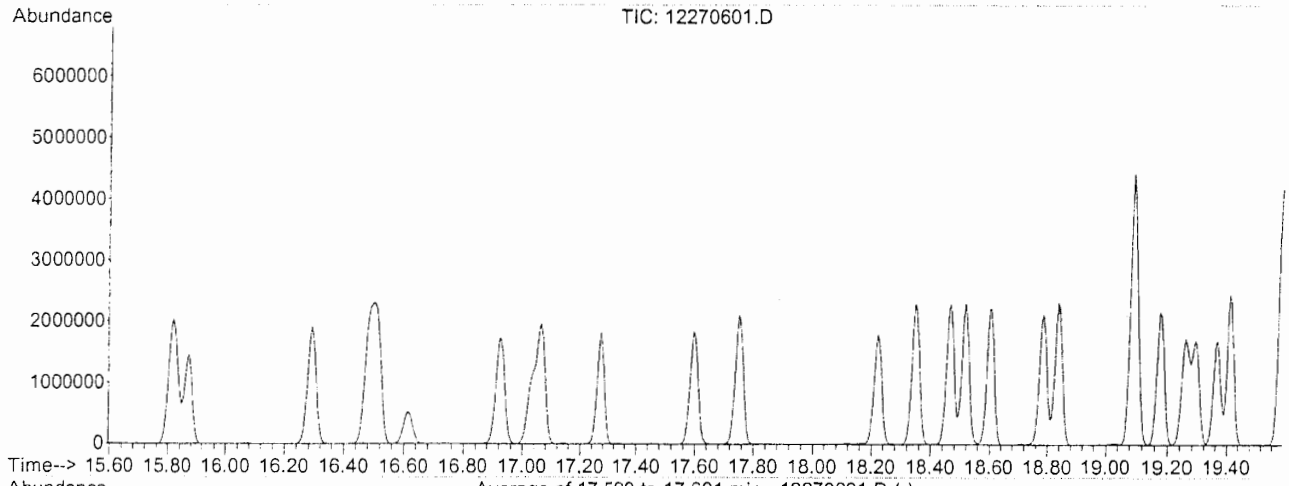
Verified by: MJ Date: 1/3/07

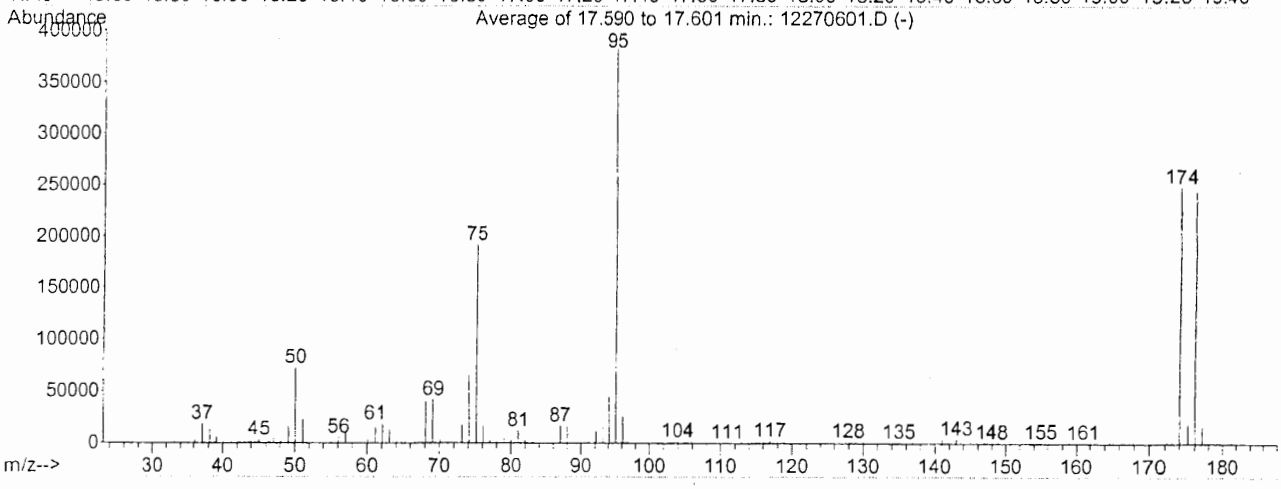
BFB

Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270601.D
Acq On : 27 Dec 2006 8:53
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.0	72424	PASS
75	95	30	66	50.1	191616	PASS
95	95	100	100	100.0	382122	PASS
96	95	5	9	6.7	25733	PASS
173	174	0.00	2	0.5	1152	PASS
174	95	50	120	64.9	247914	PASS
175	174	4	9	7.3	18096	PASS
176	174	93	101	98.4	243968	PASS
177	176	5	9	6.6	16028	PASS

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270601.D
Acq On : 27 Dec 2006 8:53
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 10:35:26 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

are ok for Targets

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	111	0.00
2	T	Propene	1.169	0.936	19.9	111	0.00
3	T	Dichlorodifluoromethane	2.358	2.173	7.8	110	0.00
4	T	Chloromethane	1.843	1.744	5.4	107	0.00
5	T	Freon 114	0.648	0.621	4.2	116	0.00
6	T	Vinyl Chloride	1.231	1.018	17.3	108	0.00
7	T	1,3-Butadiene	1.005	0.886	11.8	107	0.00
8	T	Bromomethane	0.998	0.890	10.8	110	0.00
9	T	Chloroethane	0.905	0.783	13.5	105	0.00
10	T	Ethanol	0.732	0.764	-4.4	105	0.01
11	T	Acetonitrile	2.094	1.900	9.3	101	0.00
12	T	Acrolein	0.692	0.653	5.6	105	0.00
13	T	Acetone	1.080	0.865	19.9	106	0.00
14	T	Trichlorofluoromethane	1.604	1.554	3.1	111	0.00
15	T	Isopropanol	2.831	2.609	7.8	97	0.01
16	T	Acrylonitrile	1.459	1.401	4.0	105	0.00
17	T	1,1-Dichloroethene	1.078	1.028	4.6	107	0.00
18	T	tert-Butanol	2.590	2.270	12.4	101	0.01
19	T	Methylene Chloride	1.226	1.113	9.2	105	0.00
20	T	Allyl Chloride	1.450	1.481	-2.1	106	0.00
21	T	Trichlorotrifluoroethane	0.684	0.494	27.8	99	0.00
22	T	Carbon Disulfide	4.601	4.022	12.6	105	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.523	9.4	104	0.00
24	T	1,1-Dichloroethane	1.718	1.636	4.8	107	0.00
25	T	Methyl tert-Butyl Ether	2.911	2.370	18.6	101	0.00
26	T	Vinyl Acetate	0.246	0.224	8.9	105	0.00
27	T	2-Butanone	0.761	0.675	11.3	99	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.443	7.6	105	0.00
29	T	Diisopropyl Ether	0.824	0.695	15.7	100	0.00
30	T	Ethyl Acetate	0.373	0.328	12.1	99	0.00
31	T	n-Hexane	1.550	1.176	24.1	98	0.00
32	T	Chloroform	1.712	1.605	6.2	106	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.735	2.7	109	0.00
34	T	Tetrahydrofuran	0.741	0.649	12.4	97	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.042	14.1	100	0.00
36	T	1,2-Dichloroethane	1.531	1.380	9.9	103	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	107	0.00
38	T	1,1,1-Trichloroethane	0.377	0.351	6.9	102	0.00
39	T	Isopropyl Acetate	0.152	0.147	3.3	100	0.00
40	T	1-Butanol	0.180	0.196	-8.9	98	0.00
41	T	Benzene	0.972	0.886	8.8	102	0.00
42	T	Carbon Tetrachloride	0.318	0.299	6.0	102	0.00
43	T	Cyclohexane	0.355	0.308	13.2	100	0.00
44	T	tert-Amyl Methyl Ether	0.666	0.628	5.7	101	0.00
45	T	1,2-Dichloropropane	0.246	0.232	5.7	101	0.00
46	T	Bromodichloromethane	0.332	0.326	1.8	102	0.00
47	T	Trichloroethene	0.230	0.217	5.7	102	0.00
48	T	1,4-Dioxane	0.187	0.183	2.1	98	0.00
49	T	Isooctane	0.890	0.792	11.0	98	0.00
50	T	Methyl Methacrylate	0.095	0.097	-2.1	102	0.00
51	T	n-Heptane	0.233	0.210	9.9	99	0.00

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270601.D
Acq On : 27 Dec 2006 8:53
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 10:35:26 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.404	1.5	102	0.00
53	T	4-Methyl-2-pentanone	0.218	0.211	3.2	100	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.378	-0.3	103	0.00
55	T	1,1,2-Trichloroethane	0.243	0.231	4.9	101	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	106	0.00
57	S	Toluene-d8 (SS2)	1.986	1.975	0.6	105	0.00
58	T	Toluene	1.860	1.775	4.6	101	0.00
59	T	2-Hexanone	0.996	0.991	0.5	102	0.00
60	T	Dibromochloromethane	0.478	0.473	1.0	101	0.00
61	T	1,2-Dibromoethane	0.513	0.499	2.7	100	0.00
62	T	Butyl Acetate	1.079	1.105	-2.4	103	0.00
63	T	n-Octane	0.372	0.371	0.3	102	0.00
64	T	Tetrachloroethene	0.429	0.393	8.4	97	0.00
65	T	Chlorobenzene	1.226	1.149	6.3	99	0.00
66	T	Ethylbenzene	2.158	2.100	2.7	100	0.00
67	T	m- & p-Xylene	1.399	1.361	2.7	100	0.00
68	T	Bromoform	0.306	0.296	3.3	96	0.00
69	T	Styrene	1.288	1.243	3.5	97	0.00
70	T	o-Xylene	1.517	1.462	3.6	98	0.00
71	T	n-Nonane	0.874	0.909	-4.0	104	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.688	5.1	96	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.627	7.5	96	0.00
74	T	Cumene	1.959	1.889	3.6	98	0.00
75	T	alpha-Pinene	1.019	0.984	3.4	97	0.00
76	T	n-Propylbenzene	2.587	2.560	1.0	98	0.00
77	T	3-Ethyltoluene	2.119	2.030	4.2	95	0.00
78	T	4-Ethyltoluene	2.004	1.931	3.6	99	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.673	4.3	97	0.00
80	T	alpha-Methylstyrene	0.910	0.898	1.3	93	0.00
81	T	2-Ethyltoluene	2.157	2.072	3.9	96	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.678	3.9	97	0.00
83	T	n-Decane	0.948	0.945	0.3	98	0.00
84	T	Benzyl Chloride	1.649	1.629	1.2	96	0.00
85	T	1,3-Dichlorobenzene	0.947	0.860	9.2	93	0.00
86	T	1,4-Dichlorobenzene	0.924	0.842	8.9	93	0.00
87	T	sec-Butylbenzene	2.296	2.195	4.4	95	0.00
88	T	p-Isopropyltoluene	1.842	1.791	2.8	96	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.625	2.3	96	0.00
90	T	1,2-Dichlorobenzene	0.891	0.805	9.7	93	0.00
91	T	d-Limonene	0.691	0.711	-2.9	96	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.290	-0.3	90	0.00
93	T	n-Undecane	0.800	0.801	-0.1	95	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.168	2.9	93	0.00
95	T	Naphthalene	1.896	2.009	-6.0	95	0.00
96	T	n-Dodecane	0.539	0.541	-0.4	101	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.266	7.3	91	0.00

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

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270603.D
Acq On : 27 Dec 2006 10:53
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 09:02:06 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

all ok for Targets ✓

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	99	-0.02
2	T	Propene	1.169	1.368	-17.0	95	0.01
3	T	Dichlorodifluoromethane	2.358	2.608	-10.6	98	0.01
4	T	Chloromethane	1.843	2.025	-9.9	101	0.00
5	T	Freon 114	0.648	0.770	-18.8	99	0.00
6	T	Vinyl Chloride	1.231	1.469	-19.3	96	0.00
7	T	1,3-Butadiene	1.005	1.195	-18.9	103	0.00
8	T	Bromomethane	0.998	1.010	-1.2	91	0.00
9	T	Chloroethane	0.905	0.929	-2.7	90	0.00
10	T	Ethanol	0.732	0.764	-4.4	120	-0.02
11	T	Acetonitrile	2.094	2.190	-4.6	98	0.00
12	T	Acrolein	0.692	0.650	6.1	94	0.00
13	T	Acetone	1.080	1.279	-18.4	106	0.00
14	T	Trichlorofluoromethane	1.604	1.718	-7.1	101	0.00
15	T	Isopropanol	2.831	3.062	-8.2	95	-0.02
16	T	Acrylonitrile	1.459	1.409	3.4	96	-0.01
17	T	1,1-Dichloroethene	1.078	1.077	0.1	97	-0.01
18	T	tert-Butanol	2.590	3.088	-19.2	101	-0.02
19	T	Methylene Chloride	1.226	1.270	-3.6	95	-0.02
20	T	Allyl Chloride	1.450	1.402	3.3	106	-0.01
21	T	Trichlorotrifluoroethane	0.684	0.652	4.7	80	0.00
22	T	Carbon Disulfide	4.601	4.753	-3.3	94	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.679	0.1	94	-0.02
24	T	1,1-Dichloroethane	1.718	1.899	-10.5	104	-0.02
25	T	Methyl tert-Butyl Ether	2.911	3.001	-3.1	88	0.00
26	T	Vinyl Acetate	0.246	0.251	-2.0	94	-0.02
27	T	2-Butanone	0.761	0.751	1.3	97	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.567	-0.3	97	-0.02
29	T	Diisopropyl Ether	0.824	0.834	-1.2	90	-0.01
30	T	Ethyl Acetate	0.373	0.375	-0.5	91	-0.01
31	T	n-Hexane	1.550	1.610	-3.9	86	0.00
32	T	Chloroform	1.712	1.906	-11.3	98	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.987	-11.4	104	-0.02
34	T	Tetrahydrofuran	0.741	0.712	3.9	88	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.190	1.9	89	-0.01
36	T	1,2-Dichloroethane	1.531	1.645	-7.4	100	-0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	97	-0.01
38	T	1,1,1-Trichloroethane	0.377	0.375	0.5	92	-0.02
39	T	Isopropyl Acetate	0.152	0.138	9.2	90	-0.01
40	T	1-Butanol	0.180	0.160	11.1	103	0.00
41	T	Benzene	0.972	0.983	-1.1	92	-0.01
42	T	Carbon Tetrachloride	0.318	0.292	8.2	87	-0.01
43	T	Cyclohexane	0.355	0.362	-2.0	88	-0.01
44	T	tert-Amyl Methyl Ether	0.666	0.641	3.8	89	-0.01
45	T	1,2-Dichloropropane	0.246	0.239	2.8	94	-0.01
46	T	Bromodichloromethane	0.332	0.317	4.5	93	-0.01
47	T	Trichloroethene	0.230	0.210	8.7	87	-0.01
48	T	1,4-Dioxane	0.187	0.176	5.9	94	0.00
49	T	Isooctane	0.890	0.891	-0.1	91	0.00
50	T	Methyl Methacrylate	0.095	0.087	8.4	96	-0.01
51	T	n-Heptane	0.233	0.222	4.7	88	-0.02

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270603.D
Acq On : 27 Dec 2006 10:53
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

all ok for target

Quant Time: Dec 28 09:02:06 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.389	5.1	92	0.00
53	T	4-Methyl-2-pentanone	0.218	0.218	0.0	95	-0.01
54	T	trans-1,3-Dichloropropene	0.377	0.365	3.2	95	-0.01
55	T	1,1,2-Trichloroethane	0.243	0.238	2.1	92	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	100	0.00
57	S	Toluene-d8 (SS2)	1.986	1.929	2.9	97	-0.01
58	T	Toluene	1.860	1.802	3.1	94	-0.01
59	T	2-Hexanone	0.996	1.017	-2.1	101	-0.01
60	T	Dibromochloromethane	0.478	0.432	9.6	91	-0.01
61	T	1,2-Dibromoethane	0.513	0.476	7.2	94	-0.01
62	T	Butyl Acetate	1.079	1.048	2.9	98	0.00
63	T	n-Octane	0.372	0.370	0.5	100	-0.02
64	T	Tetrachloroethene	0.429	0.400	6.8	92	0.00
65	T	Chlorobenzene	1.226	1.225	0.1	96	0.00
66	T	Ethylbenzene	2.158	2.160	-0.1	99	-0.01
67	T	m- & p-Xylene	1.399	1.405	-0.4	98	-0.02
68	T	Bromoform	0.306	0.274	10.5	90	-0.01
69	T	Styrene	1.288	1.219	5.4	96	0.00
70	T	o-Xylene	1.517	1.491	1.7	95	-0.01
71	T	n-Nonane	0.874	0.864	1.1	98	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.680	6.2	93	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.683	-0.7	100	0.00
74	T	Cumene	1.959	1.936	1.2	98	0.00
75	T	alpha-Pinene	1.019	0.966	5.2	96	0.00
76	T	n-Propylbenzene	2.587	2.502	3.3	96	0.00
77	T	3-Ethyltoluene	2.119	1.976	6.7	95	0.00
78	T	4-Ethyltoluene	2.004	2.023	-0.9	97	-0.01
79	T	1,3,5-Trimethylbenzene	1.749	1.716	1.9	96	0.00
80	T	alpha-Methylstyrene	0.910	0.752	17.4	89	0.00
81	T	2-Ethyltoluene	2.157	2.068	4.1	95	-0.01
82	T	1,2,4-Trimethylbenzene	1.747	1.679	3.9	94	-0.01
83	T	n-Decane	0.948	0.921	2.8	94	0.00
84	T	Benzyl Chloride	1.649	1.497	9.2	93	0.00
85	T	1,3-Dichlorobenzene	0.947	0.886	6.4	92	0.00
86	T	1,4-Dichlorobenzene	0.924	0.836	9.5	87	0.00
87	T	sec-Butylbenzene	2.296	2.136	7.0	91	0.00
88	T	p-Isopropyltoluene	1.842	1.708	7.3	92	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.567	5.8	94	0.00
90	T	1,2-Dichlorobenzene	0.891	0.826	7.3	88	-0.01
91	T	d-Limonene	0.691	0.608	12.0	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.223	22.8	90	0.00
93	T	n-Undecane	0.800	0.750	6.3	95	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.151	12.7	91	0.00
95	T	Naphthalene	1.896	1.592	16.0	93	0.00
96	T	n-Dodecane	0.539	0.598	-10.9	105	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.254	11.5	89	0.00

LM 12/28/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270616.D
Acq On : 27 Dec 2006 20:34
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607(closing CCV)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 09:13:38 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

all are 60 target

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	118	0.00	
2	T	Propene	1.169	0.813	30.5#	102	0.00	NTC
3	T	Dichlorodifluoromethane	2.358	1.945	17.5	105	0.00	
4	T	Chloromethane	1.843	1.564	15.1	102	0.00	
5	T	Freon 114	0.648	0.559	13.7	112	0.00	
6	T	Vinyl Chloride	1.231	0.937	23.9	106	0.00	
7	T	1,3-Butadiene	1.005	0.831	17.3	107	0.00	
8	T	Bromomethane	0.998	0.868	13.0	114	0.00	
9	T	Chloroethane	0.905	0.774	14.5	111	0.00	
10	T	Ethanol	0.732	0.737	-0.7	108	0.00	
11	T	Acetonitrile	2.094	1.868	10.8	106	0.00	
12	T	Acrolein	0.692	0.637	7.9	109	0.00	
13	T	Acetone	1.080	0.852	21.1	111	0.00	
14	T	Trichlorofluoromethane	1.604	1.471	8.3	112	0.00	
15	T	Isopropanol	2.831	2.697	4.7	107	0.00	
16	T	Acrylonitrile	1.459	1.367	6.3	109	0.00	
17	T	1,1-Dichloroethene	1.078	1.014	5.9	112	0.00	
18	T	tert-Butanol	2.590	2.264	12.6	108	0.00	
19	T	Methylene Chloride	1.226	1.103	10.0	111	0.00	
20	T	Allyl Chloride	1.450	1.420	2.1	109	0.00	
21	T	Trichlorotrifluoroethane	0.684	0.494	27.8	105	0.00	
22	T	Carbon Disulfide	4.601	3.950	14.1	110	0.00	
23	T	trans-1,2-Dichloroethene	1.681	1.486	11.6	108	0.00	
24	T	1,1-Dichloroethane	1.718	1.595	7.2	111	0.00	
25	T	Methyl tert-Butyl Ether	2.911	2.365	18.8	107	0.00	
26	T	Vinyl Acetate	0.246	0.225	8.5	112	0.00	
27	T	2-Butanone	0.761	0.712	6.4	111	0.00	
28	T	cis-1,2-Dichloroethene	1.562	1.425	8.8	111	0.00	
29	T	Diisopropyl Ether	0.824	0.708	14.1	109	0.00	
30	T	Ethyl Acetate	0.373	0.343	8.0	110	0.00	
31	T	n-Hexane	1.550	1.174	24.3	104	0.00	
32	T	Chloroform	1.712	1.581	7.7	111	0.00	
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.684	5.6	112	0.00	
34	T	Tetrahydrofuran	0.741	0.678	8.5	108	0.00	
35	T	Ethyl tert-Butyl Ether	1.213	1.062	12.4	109	0.00	
36	T	1,2-Dichloroethane	1.531	1.351	11.8	107	0.00	
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	115	0.00	
38	T	1,1,1-Trichloroethane	0.377	0.341	9.5	106	0.00	
39	T	Isopropyl Acetate	0.152	0.152	0.0	111	0.00	
40	T	1-Butanol	0.180	0.199	-10.6	106	0.00	
41	T	Benzene	0.972	0.893	8.1	110	0.00	
42	T	Carbon Tetrachloride	0.318	0.294	7.5	107	0.00	
43	T	Cyclohexane	0.355	0.309	13.0	108	0.00	
44	T	tert-Amyl Methyl Ether	0.666	0.630	5.4	109	0.00	
45	T	1,2-Dichloropropane	0.246	0.232	5.7	109	0.00	
46	T	Bromodichloromethane	0.332	0.322	3.0	108	0.00	
47	T	Trichloroethene	0.230	0.222	3.5	112	0.00	
48	T	1,4-Dioxane	0.187	0.189	-1.1	109	0.00	
49	T	Isooctane	0.890	0.802	9.9	106	0.00	
50	T	Methyl Methacrylate	0.095	0.099	-4.2	112	0.00	
51	T	n-Heptane	0.233	0.216	7.3	110	0.00	

LM 12/28/06

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603461

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: 12270601.D
Date Analyzed: 12/27/06
Time Analyzed: 08:53

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	369505	9.07	1568366	11.00	839773	15.82
	Upper Limit	517307	9.40	2195712	11.33	1175682	16.15
	Lower Limit	221703	8.74	941020	10.67	503864	15.49
	Client Sample ID						
01	Method Blank	332321	9.04	1628266	10.98	877339	15.81
02	Lab Control Sample	326285	9.07	1439046	11.00	803260	15.82
03	Duplicate Lab Control Sample	349357	9.08	1496595	11.00	842413	15.82
04	WDI-VW-38-D-12-14-06	335918	9.05	1485810	10.98	848149	15.82
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

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

Verified by: W Date: 1/3/07

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
16	12/4/06 21:37	12040616.D	P2603269-001 (1000ml)	[redacted]2.2, 3.5)	AB	10	
17	12/4/06 22:12	12040617.D	P2603269-001 Dil (100ml)	[redacted]2.2, 3.5)	AB	10	
18	12/4/06 22:53	12040618.D	P2603269-002 (1000ml)	[redacted]-1.9, 3.5)	AB	12	
19	12/4/06 23:29	12040619.D	P2603269-002 Dil (100ml)	[redacted]1.9, 3.5)	AB	12	
20	12/5/06 0:04	12040620.D	P2603269-003 (200ml)	[redacted]1.9, 3.5)	AB	13	
21	12/5/06 0:41	12040621.D	P2603269-004 (500ml)	[redacted]3.1, 3.5)	AB	14	Case file, Run higher
22	12/5/06 1:17	12040622.D	P2603253-002 Dil (100ml)	[redacted]2.4, 3.5)	AB	8	
23	12/5/06 1:53	12040623.D	P2603253-002 Dup Dil (100ml)	[redacted]2.4, 3.5)	AB	8	Passed as lab Dup
24	12/5/06 2:30	12040624.D	P2603244-001 Dil (100ml)	[redacted]2.2, 3.5)	AB	9	
25	12/5/06 3:06	12040625.D	P2603244-001 Dup Dil (100ml)	[redacted]3.2, 3.5)	AB	9	

1	12/5/06 8:02	12050601.D	25ng TO-15 CCV STD+ 2-Methylnaphthalene STD	S15-11130603/S15-11270605/S15-11280601	AB	1	Passed for TO-15
2	12/5/06 9:10	12050602.D	25ng 2-Methylnaphthalene STD	S15-11130603/S15-11280601	AB	15	Passed
3	12/5/06 10:18	12050603.D	TO-15 Method Blank (1000ml)	S15-11130603	LM	1	Passed
4	12/5/06 11:29	12050604.D	25ng TO-15 LCS STD	S15-11130603/S15-11140606	LM	2	Passed
5	12/5/06 12:17	12050605.D	25ng 2-Methylnaphthalene LCS STD	S15-11130603/S15-11280603	LM	7	Passed
6	12/5/06 13:28	12050606.D	P2603279-002 (1000ml)	[redacted]1.8,3.5)	LM	16	
7	12/5/06 14:21	12050607.D	P2603279-002 dup (1000ml)	[redacted]1.8,3.5)	LM	16	Passed as lab Dup
8	12/5/06 15:26	12050608.D	P2603279-001 (1000ml)	[redacted]8,3.5)	LM	11	
9	12/5/06 16:17	12050609.D	P2603269-003 DIL (10ml)	[redacted]1.9,3.5)	LM	1	
10	12/5/06 18:00	12050610.D	P2603269-004 (1000ml)	[redacted]0.1,3.5)	LM	14	
11	12/5/06 18:36	12050611.D	5ng CCV STD	S15-12050604(test can)	LM	1	
12	12/5/06 19:12	12050612.D	blank (200ml)	rinse	LM	1	

1	12/6/06 9:29	12060601.D	Blank(200ml)	S15-12050601	LM	1	
2	12/6/06 10:21	12060602.D	5ng TO-15 CCV STD	S15-12050601/S15-12050604	LM	1	Failed
3	12/6/06 12:13	12060603.D	25ng TO-15 CCV STD	S15-12050601/S15-11270605	LM	1	Failed
4	12/6/06 13:16	12060604.D	Blank(500ml)	S15-12050601	LM	1	Clean system.
5	12/6/06 14:54	12060605.D	Blank(200ml)	S15-12050601	LM	1	
6	12/6/06 15:30	12060606.D	25ng TO-15 BFB	S15-12050601	LM	1	Passed
7	12/6/06 16:06	12060607.D	0.5ng TO-15 ICAL STD	S15-12050601/S15-12050604	LM	1	ICAL ok for all compounds 0.5-100ng
8	12/6/06 16:42	12060608.D	1ng TO-15 ICAL STD	S15-12050601/S15-12050604	LM	1	
9	12/6/06 17:17	12060609.D	5ng TO-15 ICAL STD	S15-12050601/S15-12050604	LM	1	
10	12/6/06 17:53	12060610.D	25ng TO-15 ICAL STD	S15-12050601/S15-12050606	LM	1	
11	12/6/06 18:28	12060611.D	50ng TO-15 ICAL STD	S15-12050601/S15-12050606	LM	1	
12	12/6/06 19:04	12060612.D	100ng TO-15 ICAL STD	S15-12050601/S15-12050606	LM	1	
13	12/6/06 19:39	12060613.D	25ng TO-15 ICV STD	S15-12050601/S15-12050608	LM	2	Passed

12/12/06

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	12/19/06 8:39	12190601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Passed
2	12/19/06 9:35	12190602.D	TO-15 Method Blank (1000ml)	S15-12050601	LM	1	Passed
3	12/19/06 10:40	12190603.D	1ng TO-15 STD	S15-12190601/S15-12050604	LM	1	Passed
4	12/19/06 11:27	12190604.D	25ng TO-15 LCS STD	S15-12190601/S15-12050608	LM	10	Passed
5	12/19/06 12:33	12190605.D	25ng TO-15 LCSD STD	S15-12190601/S15-12050608	LM	10	Passed, Passed as Dup
6	12/19/06 13:09	12190606.D	P2603406-001 (250ml)	TRC WDI-IBM-50-12-10-06 (-3.7,3.6)	LM	4	
7	12/19/06 13:50	12190607.D	P2603406-006 (1000ml)	TRC WDI-IBM-50-12-10-06-SC (-2.8,3.5)	LM	2	
8	12/19/06 14:45	12190608.D	P2603406-007 (1000ml)	TRC WDI-VW-31-S-12-12-06 (-2.5,3.5)	LM	11	RPD found IS > 40%
9	12/19/06 15:39	12190609.D	P2603406-007 dup (1000ml)	TRC WDI-VW-31-S-12-12-06 (-2.5,3.5)	LM	11	Passed as Dup
10	12/19/06 16:38	12190610.D	P2603406-008 (1000ml)	TRC WDI-VW-31-D-12-12-06 (-3.6,3.5)	LM	2	See IS failed, carry to
11	12/19/06 17:30	12190611.D	P2603406-003 (1000ml)	TRC WDI-IBM-24-12-10-06 (-2.7,3.5)	LM	4	See IS failed, carry to
12	12/19/06 18:41	12190612.D	P2603406-012 (1000ml)	TRC WDI-VW-34-I-12-12-~~X~~-06 (-4.0,3.5)	LM	5	
13	12/19/06 19:22	12190613.D	P2603406-011 (1000ml)	TRC WDI-VW-3-S-12-12-06 (~~-4.0~~ -3.4,3.5)	LM	6	
14	12/19/06 19:58	12190614.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	
15	12/19/06 20:39	12190615.D	P2603462-001 (1000ml)	[redacted] (-2.0,3.7)	LM	7	
16	12/19/06 21:16	12190616.D	P2603391-001 (300ml)	[redacted] (0.0,3.6)	LM	8	
17	12/19/06 21:56	12190617.D	P2603391-005 (1000ml)	[redacted] (-0.2,3.4)	LM	9	
18	12/19/06 22:37	12190618.D	P2603391-006 (1000ml)	[redacted] (-0.2,3.6)	LM	11	
19	12/19/06 23:18	12190619.D	P2603391-007 (1000ml)	[redacted] (-0.2,3.6)	LM	12	
20	12/19/06 23:58	12190620.D	P2603391-008 (1000ml)	[redacted] (-0.1,3.5)	LM	13	
21	12/20/06 0:39	12190621.D	P2603391-009 (1000ml)	[redacted] (0.0,3.5)	LM	14	
22	12/20/06 1:20	12190622.D	P2603391-010 (1000ml)	[redacted] (0.0,3.5)	LM	15	
23	12/20/06 1:55	12190623.D	P2603391-010 dil (100ml)	[redacted] (0.0,3.5)	LM	10	
24	12/20/06 2:31	12190624.D	P2603462-001 dil (100ml)	[redacted] (-2.0,3.7)	LM	7	

1	12/20/06 9:00	12200601.D	25ng TO-15 CCV STD	S15-12050601/S15-12050606	LM	1	Failed
2	12/20/06 9:52	12200602.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Passed, 1,3 Butadiene low
3	12/20/06 10:55	12200603.D	TO-15 Method Blank (1000ml)	S15-12190601	LM	1	Passed
4	12/20/06 12:08	12200604.D	1ng TO-15 STD	S15-12190601/S15-12050604	LM	1	Passed
5	12/20/06 12:44	12200605.D	25ng TO-15 LCS STD	S15-12190601/S15-12050608	LM	10	Passed
6	12/20/06 13:20	12200606.D	25ng TO-15 LCSD STD	S15-12190601/S15-12050608	LM	10	Passed, Passed as Dup
7	12/20/06 14:16	12200607.D	P2603406-009 (1000ml)	TRC WDI-34-D-12-12-06 (-3.7,3.5)	LM	4	
8	12/20/06 15:17	12200608.D	P2603406-010 (1000ml)	TRC WDI-34-I-12-12-06 (-3.7,3.6)	LM	16	
9	12/20/06 16:13	12200609.D	P2603406-010 dup (1000ml)	TRC WDI-34-I-12-12-06 (-3.7,3.6)	LM	16	Passed as Dup
10	12/20/06 17:26	12200610.D	P2603406-008 (1000ml)	TRC WDI-VW-31-D-12-12-06 (-3.6,3.5)	LM	16	
11	12/20/06 18:37	12200611.D	P2603349-002 (1.0ml)	[redacted] (0.1,3.5)	LM	1	
12	12/20/06 19:18	12200612.D	P2603461-001 (1000ml)	TRC WDI-VW-35-S-12-12-06 (-3.3,3.6)	LM	6	
13	12/20/06 19:54	12200613.D	P2603461-002 (25ml)	TRC WDI-VW-35-D-12-12-06 (-2.5,3.6)	LM	7	
14	12/20/06 20:30	12200614.D	P2603461-003 (60ml)	TRC WDI-VW-35-I-12-12-06 (-2.6,3.6)	LM	8	
15	12/20/06 21:06	12200615.D	25ng TO-15 CCV Std	S15-12050601/S15-12150607	LM	1	Passed, VC Was low
16	12/20/06 21:42	12200616.D	25ng TO-15 CCV Std	S15-12050601/S15-12050607	LM	5	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
28	12/22/06 4:07	12210628.D	TO-15 BFB STD	S15-12190601	LM	1	Passed
29	12/22/06 4:43	12210629.D	0.5ng TO-15 ICAL STD	S15-12190601/S15-12150605	LM	1	ICAL Passed for all
30	12/22/06 5:19	12210630.D	1.0ng TO-15 ICAL STD	S15-12190601/S15-12150605	LM	1	compounds
31	12/22/06 5:55	12210631.D	5ng TO-15 ICAL STD	S15-12190601/S15-12150605	LM	1	0.5ng-> 100ng
32	12/22/06 6:31	12210632.D	25ng TO-15 ICAL STD	S15-12190601/S15-12150607	LM	1	
33	12/22/06 7:07	12210633.D	50ng TO-15 ICAL STD	S15-12190601/S15-12150607	LM	1	
34	12/22/06 7:43	12210634.D	100ng TO-15 ICAL STD	S15-12190601/S15-12150607	LM	1	
35	12/22/06 8:18	12210635.D	25ng TO-15 ICv STD	S15-12190601/S15-12150603	LM	4	Passed all comp, except 1-Butanal.

	1	12/22/06 9:09	12220601.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Passed
	2	12/22/06 10:09	12220602.D	CAS Can QC#1 12/20/06 (1000ml)	SC00115	LM	2	Passed43 analyzing
	3	12/22/06 11:15	12220603.D	TO-15 Method Blank (1000ml)	S15-12190601(Qc tank #481240720411)	LM	1	Passed
	4	12/22/06 11:56	12220604.D	1ng TO-15 CCV STD	S15-12190601/S15-120050605	LM	1	Passed
	5	12/22/06 12:32	12220605.D	25ng TO-15 LCS STD	S15-12190601/S15-120050603	LM	4	Passed
...ed as MB	6	12/22/06 13:09	12220606.D	25ng TO-15 LCSD STD	S15-12190601/S15-120050603	LM	4	Passed, Passed as Dup
	7	12/22/06 13:46	12220607.D	P2603419-033 (1.5ml)	[redacted].1,10.1)	LM	1	
	8	12/22/06 14:23	12220608.D	P2603419-033 dil (0.5ml)	[redacted]0.1,10.1)	LM	1	
...lled as	9	12/22/06 14:58	12220609.D	P2603419-034 (1.0ml)	[redacted](0.0,10.2)	LM	1	
...m MSO2	10	12/22/06 15:38	12220610.D	P2603419-035 (0.60ml)	[redacted]1.9,10.1)	LM	1	
...ighter.	11	12/22/06 16:14	12220611.D	P2603419-036 (0.30ml)	[redacted](3.2,10.2)	LM	1	
	12	12/22/06 16:52	12220612.D	P2603419-038 (0.10ml)	[redacted]3.2,10.1)	LM	1	
higher run	13	12/22/06 17:27	12220613.D	P2603419-037 (0.20ml)	[redacted]1.0,10.2)	LM	1	
	14	12/22/06 18:28	12220614.D	P2603419-039 (0.025ml)	[redacted]-0.5,10.5)	LM	1	Carefully, Run higher
...Dup	15	12/22/06 19:04	12220615.D	P2603419-036 (25ml)	[redacted](3.2,10.2)	LM	5	
	16	12/22/06 19:39	12220616.D	P2603419-036 dup (25ml)	[redacted].2,10.2)	LM	5	Passed as Dup
...p	17	12/22/06 20:15	12220617.D	P2603419-029 (200ml)	[redacted]1.8,10.1)	LM	6	
	18	12/22/06 20:51	12220618.D	blank (200ml)	rinse	LM	1	
	19	12/22/06 21:32	12220619.D	P2603427-001 (1000ml)	[redacted]-4.5,3.6)	LM	9	
	20	12/22/06 22:13	12220620.D	P2603427-001 dup (1000ml)	[redacted]-4.5,3.6)	LM	9	Passed, extra Dup
	21	12/22/06 22:54	12220621.D	P2603427-002 (1000ml)	[redacted]-2.5,3.5)	LM	10	
	22	12/22/06 23:34	12220622.D	P2603427-003 (1000ml)	[redacted]-4.2,3.6)	LM	11	
higher.	23	12/23/06 0:15	12220623.D	P2603427-004 (1000ml)	[redacted]-4.4,3.6)	LM	12	
	24	12/23/06 0:56	12220624.D	P2603427-005 (1000ml)	[redacted]-2.5,3.5)	LM	13	
...ed	25	12/23/06 1:36	12220625.D	P2603427-006 (1000ml)	[redacted](-3.9,3.5)	LM	8	
	26	12/23/06 2:17	12220626.D	P2603444-001 (1000ml)	[redacted](0.2,3.5)	LM	2	
	27	12/23/06 2:53	12220627.D	P2603432-001 (500ml)	[redacted] (-3.2,3.5)	LM	14	
	28	12/23/06 3:29	12220628.D	blank(100)	rinse	LM	1	
	29	12/23/06 4:10	12220629.D	CAS Can QC (1000ml)	AC00975	LM	7	
	30	12/23/06 4:51	12220630.D	CAS Can QC#3 DR 12/20/06 (1000ml)	AC00649	LM	15	Failed

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	12/26/06 8:49	12260601.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Passed
2	12/26/06 10:18	12260602.D	TO-15 Method Blank (1000ml)	S15-12190601	LM	1	Passed
3	12/26/06 11:05	12260603.D	1ng TO-15 CCV STD	S15-12190601/S15-12150605	LM	1	Passed
4	12/26/06 11:51	12260604.D	25ng TO-15 LCS STD	S15-12190601/S15-12150603	LM	4	Passed
5	12/26/06 12:26	12260605.D	25ng TO-15 LCSD STD	S15-12190601/S15-12150603	LM	4	Passed
6	12/26/06 13:34	12260606.D	P2603461-004 (100ml)	TRC WDI-VW-58-S-12-14-06 (-2.3,3.6)	LM	5	
7	12/26/06 14:17	12260607.D	P2603461-004 dup (100ml)	TRC WDI-VW-58-S-12-14-06 (-2.3,3.6)	LM	5	Passed as Dup
8	12/26/06 15:03	12260608.D	P2603461-005 (125ml)	TRC WDI-VW-58-S-12-14-06-SC (-3.1,3.7)	LM	6	
9	12/26/06 15:46	12260609.D	P2603461-005 dil (50ml)	TRC WDI-VW-58-S-12-14-06-SC (-3.1,3.7)	LM	6	
10	12/26/06 16:35	12260610.D	P2603461-006 (500ml)	TRC WDI-VW-58-D-12-14-06 (-2.8,3.6)	LM	5	Cancel file, Run higher Vol
11	12/26/06 17:22	12260611.D	P2603461-006 (1000ml)	TRC WDI-VW-58-D-12-14-06 (-2.8,3.6)	LM	5	
12	12/26/06 18:23	12260612.D	P2603461-007 (1000ml)	TRC WDI-VW-39-S-12-14-06 (-3.3,3.8)	LM	7	
13	12/26/06 19:04	12260613.D	P2603461-008 (1000ml)	TRC WDI-VW-39-D-12-14-06 (-3.5,3.5)	LM	8	
14	12/26/06 19:44	12260614.D	P2603461-009 (1000ml)	TRC WDI-VW-38-S-12-14-06 (-2.5,3.7)	LM	4	
15	12/26/06 20:20	12260615.D	25ng TO-15 CCV	S15-12190601/S15-12150607	LM	1	Passed
16	12/26/06 21:01	12260616.D	P2603417-001 (1000ml)	[redacted]0.5,3.5)	LM	10	
17	12/26/06 21:41	12260617.D	P2603417-002 (1000ml)	[redacted]0.5,3.6)	LM	11	
18	12/26/06 22:22	12260618.D	P2603417-003 (1000ml)	[redacted].6,3.5)	LM	12	
19	12/26/06 23:03	12260619.D	P2603417-004 (1000ml)	[redacted]0.5,3.6)	LM	13	
20	12/26/06 23:43	12260620.D	P2603417-005 (1000ml)	[redacted]0.6,3.5)	LM	14	
21	12/27/06 0:24	12260621.D	P2603417-006 (1000ml)	[redacted](0.8,3.5)	LM	15	
22	12/27/06 1:05	12260622.D	P2603417-007 (1000ml)	[redacted]0.7,3.7)	LM	16	
23	12/27/06 1:45	12260623.D	P2603417-008 (1000ml)	[redacted]1.0,3.5)	LM	6	
24	12/27/06 2:22	12260624.D	P2603444-001 dil (100ml)	[redacted]0.2,3.5)	LM	2	
25	12/27/06 3:03	12260625.D	CAS CAN QC#2 12/22/06(1000ml)	SC00549	LM	5	

	Date/Time
17	12/27/06 21:1
18	12/27/06 21:4
19	12/27/06 22:2
20	12/27/06 23:0
21	12/27/06 23:3
22	12/28/06 0:1
23	12/28/06 0:5
24	12/28/06 1:2
25	12/28/06 2:0
26	12/28/06 2:3
27	12/28/06 3:1

	Date/Time
1	12/28/06 7:
2	12/28/06 8:
3	12/28/06 9:
4	12/28/06 10
5	12/28/06 1
6	12/28/06 1
7	12/28/06 1:
8	12/28/06 1:
9	12/28/06 1
10	12/28/06 1
11	12/28/06 1
12	12/28/06 1
13	12/28/06 1
14	12/28/06
15	12/28/06
16	12/28/06
17	12/28/06

✓	12/27/06 8:53	12270601.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Passed
	12/27/06 10:12	12270602.D	TO-15 Method Blank (1000ml)	S15-12190601	LM	1	Passed
✓	12/27/06 10:53	12270603.D	1ng TO-15 CCV STD	S15-12190601/S15-12150605	LM	1	Passed
	12/27/06 11:47	12270604.D	25ng TO-15 LCS STD	S15-12190601/S15-12150603	LM	2	Passed
	12/27/06 12:23	12270605.D	25ng TO-15 LCSD STD	S15-12190601/S15-12150603	LM	2	Passed Passed as Dup
	12/27/06 13:11	12270606.D	P2603461-010 (100ml) Dil Can 11/05/06	TRC WDI-VW-38-D-12-14-06 (-2.8,4.4)	LM	5	
	12/27/06 14:03	12270607.D	P2603502-002 (1.5ml)	TRC WDI-VW-49-I-12-19-06 (-2.6,3.5)	LM	1	
	12/27/06 14:42	12270608.D	P2603502-004 (2.0ml)	TRC WDI-VW-55-I-12-19-06 (-0.9,3.5)	LM	1	Cancel file, Run higher
	12/27/06 15:26	12270609.D	P2603502-004 (600ml)	TRC WDI-VW-55-I-12-19-06 (-0.9,3.5)	LM	9	Cancel file, scan failed.
	12/27/06 16:08	12270610.D	P2603502-004 (100ml)	TRC WDI-VW-55-I-12-19-06 (-0.9,3.5)	LM	9	
	12/27/06 16:48	12270611.D	P2603502-004 dup (100ml)	TRC WDI-VW-55-I-12-19-06 (-0.9,3.5)	LM	9	Passed as Dup
	12/27/06 17:36	12270612.D	P2603502-002 (60ml)	TRC WDI-VW-49-I-12-19-06 (-2.6,3.7)	LM	5	
	12/27/06 18:47	12270613.D	P2603502-001 (1000ml)	TRC WDI-VW-49-S-12-19-06 (-2.2,3.5)	LM	6	
	12/27/06 19:23	12270614.D	P2603502-003 (300ml)	TRC WDI-VW-49-D-12-19-06 (-2.8,3.5)	LM	7	
	12/27/06 19:59	12270615.D	P2603502-005 (100ml)	TRC WDI-VW-55-I-12-19-06-SC (-2.9,3.5)	LM	8	
✓	12/27/06 20:34	12270616.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607(closing CCV)	LM	1	Passed

5. SDG P2603502

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

January 16, 2007

Mr. Yasser Fahmy
TRC
21 Technology Drive
Irvine, CA 92618

RE: P2603502
WDI

Dear Mr. Fahmy:

Enclosed are the results of the sample(s) submitted to our laboratory on December 20, 2006. For your reference, these analyses have been assigned our service request number P2603502.

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 120 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

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

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

March 12, 2007

Mr. Troy Gill
TRC
21 Technology Drive
Irvine, CA 92618

Re: CAS Job File P2603502

Dear Mr. Gill:

Your CAS report number P2603502 has been revised. Pursuant your request, the case narrative has been revised to include a statement regarding the mid point standards meeting criteria. The applicable pages have been included with an "R" following the page number in the bottom right corner as an indication that it is a revised page.

Please retain this letter for your records and either return the original pages to CAS/Simi Valley or properly discard. Please contact me at (805) 526-7161 if you have any questions.

Regards,

Kate Aguilera

Kate Aguilera
Project Manager

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

LABORATORY REPORT

Client:	TRC	Date of Report:	01/16/07
		Date of Revision:	**03/12/07**
Address:	21 Technology Drive	Date Received:	12/20/06
	Irvine, CA 92618	CAS Project No:	P2603502
Contact:	Mr. Yasser Fahmy	Purchase Order:	Verbal

Client Project ID: WDI

Eleven (11) Stainless Steel Summa Canisters labeled:

"WDI-VW-49-S-12-19-06" "WDI-VW-49-I-12-19-06" "WDI-VW-49-D-12-19-06"
"WDI-VW-55-I-12-19-06" "WDI-VW-55-I-12-19-06-SC" "WDI-VW-55-S-12-19-06"
"WDI-VW-55-D-12-19-06" "WDI-VW-41-S-12-19-06" "WDI-VW-41-D-12-19-06"
"WDI-VW-37-S-12-20-06" "WDI-VW-37-D-12-20-06"

The samples were received at the laboratory under chain of custody on December 20, 2006. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Methane and Total Gaseous Non-Methane Organics as Methane Analysis

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

The mid point standard meets the percent difference criteria of 15%.

Fixed Gases Analysis

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

The mid point standard meets the percent difference criteria of 10%.

Reviewed and Approved:

for: Liliana Marghitoiu
Analytical Chemist
Air Quality Laboratory

Reviewed and Approved:

Wade Henton
GC-VOA Team Leader
Air Quality Laboratory

2R

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

CAS Project No: P2603502

Volatile Organic Compound Analysis

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

On 12/29/06 trichlorotrifluoroethane was biased low on closing continuing calibration verification. The sample identified as "WDI-VW-37-D-12-20-06 was analyzed on that day and has a positive hit for trichlorotrifluoroethane.

The results of analyses are given on the attached data sheets. 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.

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: TRC Work order: P2603502

Project: WDI

Sample(s) received on: 12/20/06 Date opened: 12/20/06 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
P2603502-001			NA	
P2603502-002			NA	
P2603502-003			NA	
P2603502-004			NA	
P2603502-005			NA	
P2603502-006			NA	
P2603502-007			NA	
P2603502-008			NA	
P2603502-009			NA	
P2603502-010			NA	

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

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: TRC Work order: P2603502

Project: WDI

Sample(s) received on: 12/20/06 Date opened: 12/20/06 by: MZ

Lab Sample ID	Required pH (as received, if required)	pH (as received, if required)	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2603502-011			NA	

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. P2603502

CAS Contact

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

Project Name: WDI

Project Number:

Project Manager: YASSER FAHMY

Phone: (949) 727-9336 Fax: (949) 753-0111

P.O. # / Billing Information:

Email Address for Result Reporting: YFAHMY@TRCSOLUTIONS.COM

Sampler (Print & Sign): STEVEN CRAWFORD Steven Crawford

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume	TO-15	EPA 25c MODIFIED (TOTAL METHANE ORGANIC CARBON)	EPA 3c MODIFIED (METHANE)		Comments e.g. Actual Preservative or specific instructions
WDI-VW-49-S-12-19-06	1 -4.5	12-19-06	1425	AIR	SC00211	6V-.5-080	6L	X	X	X		
WDI-VW-49-I-12-19-06	2 -5.2	12-19-06	1425	AIR	SC00243	6V-.5-047	6L	X	X	X		
WDI-VW-49-D-12-19-06	3 -5.7	12-19-06	1425	AIR	SC00868	6V-.5-033	6L	X	X	X		
WDI-VW-55-I-12-19-06	4 -1.8	12-19-06	1135	AIR	SC00160	6V-.5-080	6L	X	X	X		
WDI-VW-55-I-12-19-06-SC	5 -5.9	12-19-06	1135	AIR	SC00610	6V-.5-062	6L	X	X	X		
WDI-VW-55-S-12-19-06	6 -4.3	12-19-06	1135	AIR	SC00241	6V-.5-047	6L	X	X	X		
WDI-VW-55-D-12-19-06	7 -4.9	12-19-06	1135	AIR	SC00147	6V-.5-033	6L	X	X	X		
WDI-VW-41-S-12-19-06	8 -5.4	12-19-06	0935	AIR	SC00892	6V-.5-080	6L	X	X	X		
WDI-VW-41-D-12-19-06	9 -5.8	12-19-06	0935	AIR	SC00330	6V-.5-087	6L	X	X	X		
WDI-VW-37-S-12-20-06	10 -6.0	12-20-06	0955	AIR	SC00088	6V-.5-062	6L	X	X	X		
WDI-VW-37-D-12-20-06	11 -5.5	12-20-06	0955	AIR	SC00807	6V-.5-080	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	12-20-06	1130 AM	[signature]	12/20/06	1130
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
[signature]	12/20/06	1250	[signature]	12/20/06	1250
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank 10748
Temperature 10750

Organic Analyses Support Documentation

Veridian Project Name: WDI-TRC
Sample Collection Dates: 12/19/2006
Project Manager: Yasser Fahmy - TRC
Laboratory: Columbia Analytical Servies, Inc.

Reviewed By: T.A. Young
Approved By: W.G. Kay
Completion Date: 3/15/07

Deliverables:
- CLP ☐
- Tier III ☒
- Tier IV ☐
- Limited ☐
- Other

SDG*: **P2603502**

The following table indicates criteria which were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail Check if Yes or Footnote Letter for Comments Below			Problems Identified Check if Yes or Footnote Number for Comments Below			Support Documentation Attachments Check if Yes or Identify Attachment No.		
	Method 3C	Method 25C	Method TO-15	Method 3C	Method 25C	Method TO-15	Method 3C	Method 25C	Method TO-15
Holding Times	✓	✓	✓				✓	✓	✓
Blank Analysis Results	✓	✓	✓				✓	✓	✓
Surrogate Spike Results			✓						✓
Blank Spike Results		✓	✓					✓	✓
Laboratory Duplicate Results	✓	✓	✓				✓	✓	✓
BFB Mass Tuning			✓						✓
Initial Calibrations	✓	✓	✓				✓	✓	✓
Continuing Calibrations	✓	✓	✓				✓	✓	✓
Surrogate Retention Time Shifts			✓						✓
Internal Standards Performance			✓						✓
Analytical Sequence			✓						✓
Other									

Comments: Sample: WDI-VW-55-S-12-19-06

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S. Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
3C	Air	MB	Method Blank P061229-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603502

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061229-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/29/06
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	
74-82-8	Methane	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

all ND

Verified By: RC Date: 1/8/07

03502SVG.RD1 - MBlank

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061229-LCS

Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/29/06
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Hydrogen	40,100	39,400	**98**	90-110	
Oxygen + Argon *	50,000	52,100	**104**	90-110	
Nitrogen	50,500	50,700	**100**	90-110	
Carbon Monoxide	50,100	52,900	**106**	90-110	
Methane	40,100	42,800	**107**	90-110	
Carbon Dioxide	50,400	53,600	**106**	90-110	

Verified By: RG Date: 1/8/07

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

(#) = Out of Range

zw 12/29/06

COLUMBIA ANALYTICAL INC.

EPA 3C GC/TCD Analysis for Fixed Gases

Client & PAI Job# : TRC P2603502
Analyst : WHH
Sample amount : ~100uL

Printed : 12/29/06
Instrument : GC #1 / TCD #1
Date analyzed : 12/29/06

Sample Result

Sample ID	Hydrogen	O2/Ar	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	Pi1	Pf1	Pi2	Pf2
STD-50000ppm	36430	50586	50942	50977	41211	51195				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	9.2%	1.2%	0.8%	1.9%	2.9%	1.7%		✓		
MB	0	0	0	0	0	0				
LAB AIR	0	231054	816031	0	0	450				
3502-001	0	120892	583241	0	0	26562	-2.2	3.5		
3502-002	0	31338	665471	0	0	120175	-2.6	3.7		
3502-003	0	29022	628163	0	0	114775	-2.8	4.2		
3502-004	0	51524	649768	0	1539	109114	-0.9	3.5		
3502-005	0	8408	637843	0	2218	142903	-2.9	3.5		
3502-006	0	9029	715611	0	41096	67043	-2.1	3.7		
3502-007	0	8470	576137	0	0	124759	-2.4	3.5		
3502-008	0	152429	541870	0	0	11507	-2.7	3.7		
3502-009	0	116603	538446	0	0	41613	-2.8	3.5		
3502-010	0	99344	548193	0	0	31316	-2.9	3.5		
3502-011	0	37015	582081	0	0	76268	-2.7	3.5		
LCS 50000ppm S14-12	39364	52078	50735	52873	42784	53581				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	1.8%	4.2%	0.4%	5.6%	6.8%	6.4%				
3502-001 dup	0	120568	581934	0	0	26393	-2.2	3.5		
STD 50000ppm S14-09	37999	52482	51286	52801	42846	53670				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	5.2%	5.0%	1.5%	5.5%	7.0%	6.6%		✓		

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	231054	816031	0	0	450	104.8	1.00
3502-001	0	176018	849199	0	0	38674	106.4	1.46
3502-002	0	47654	1011957	0	0	182746	124.2	1.52
3502-003	0	46093	997670	0	0	182289	122.6	1.59
3502-004	0	67952	856940	0	2030	143905	107.1	1.32
3502-005	0	12968	983791	0	3421	220409	122.1	1.54
3502-006	0	13185	1045019	0	60013	97905	121.6	1.46
3502-007	0	12532	852496	0	0	184603	105.0	1.48
3502-008	0	233724	830867	0	0	17644	108.2	1.53
3502-009	0	178334	823506	0	0	63643	106.5	1.53
3502-010	0	153226	845518	0	0	48301	104.7	1.54
3502-011	0	56139	882822	0	0	115672	105.5	1.52
3502-001 dup	0	175548	847296	0	0	38428	106.1	1.46

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	36430	50586	50942	50977	41211	51195	
MB	ND	ND	ND	ND	ND	ND	
LAB AIR	ND	220547	778923	ND	ND	430	99.99
3502-001	ND	165431	798121	ND	ND	36348	99.99
3502-002	ND	38354	814465	ND	ND	147081	99.99
3502-003	ND	37591	813644	ND	ND	148665	99.99
3502-004	ND	63451	800180	ND	1896	134373	99.99
3502-005	ND	10623	805916	ND	2803	180558	99.99
3502-006	ND	10841	859219	ND	49343	80498	99.99
3502-007	ND	11939	812105	ND	ND	175857	99.99
3502-008	ND	215942	767656	ND	ND	16302	99.99
3502-009	ND	167357	772817	ND	ND	59726	99.99
3502-010	ND	146327	807447	ND	ND	46126	99.99
3502-011	ND	53226	837005	ND	ND	109669	99.99
3502-001 dup	ND	165396	798298	ND	ND	36206	99.99

Injection Log

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

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	08210601.d	10.	Test		21 Aug 106 12::5
2	4	08210602.d	10.	Test		21 Aug 106 13::5
3	4	08210603.d	10.	MB		21 Aug 106 13::0
4	4	08210604.d	10.	test		21 Aug 106 12::1
5	4	08210605.d	10.	STD 1 S14-03260601 (loop 0.17)		21 Aug 106 12::3
6	4	08210606.d	10.	STD 2 S14-04120602 (loop 0.17)		21 Aug 106 12::1
7	5	08210607.d	10.	STD 3 S14-04120602 (loop 1.00)		21 Aug 106 12::3
8	5	08210608.d	10.	STD 4 S14-04120602 (loop 10.47)		21 Aug 106 12::4
9	5	08210609.d	10.	STD 5 S14-~~05~~ 04120602 (loop 18.0)		21 Aug 106 12::5
10	5	08210610.d	10.	lab air	WA 12/11/06	21 Aug 106 12::1
11	5	08210611.d	10.	icv		21 Aug 106 12::2
12	5	08210612.d	10.	ICV S14-07110501		21 Aug 106 12::5
13	5	08210613.d	10.	blank		21 Aug 106 12::1

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

DATE: 12 / 29 / 200__ 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\ PAgs/2006-12/29 METHOD FILE NAME: J:\GC1\METHODS\ 3C 082106 .M

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD 50000 ppm S14 09010603		WH
02	MB		
03	Lab Air		
04	Lab Air		
05	LCS 50000 ppm S14-12150602		
06	↓		
07	3502 -001 :		
08	001 Dup		
09	002		
10	003		
11	004		
12	005		
13	006		
14	007		
15	008		
16	STD 500 ppm S14-09010603		
17	3502 -009		
18	↓ 010		
19	3561 -001		
20	↓ -002		

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	3497-001		WH
22	3502-011		↓
23	3497-002		
24	STD 50000 ppm S14-09010603		
25			
26			
27			
28			
29			
30			
31			
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33			
34			
35			
36			
37			
38			
39			
40			

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
25C	Air	MB	Method Blank P061229-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603502

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061229-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: 12/29/06
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.

all ND

Verified By: RG Date: 1/8/07

03502SVG.RD2 -MBlank

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061229-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: 12/29/06
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Methane	57.5	56.7	99	90-110	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	345	342	99	90-110	

ok

Verified By: RG Date: 1/8/07

17

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

VB 10/23/06

(#) = Out of Range

PERFORMANCE ANALYTICAL INC.

zw 1/9/07

EPA 25C TCA/FID Analysis for TGNMO

Client & PAI Job# : TRC P2603502
Analyst : WHH
Sample amount : 500uL / 68uL

Printed : 1/9/07
Instrument : GC #1 / FID #1
Date analyzed : 12/29/06

Sample Results (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGNMO-2	Pi1	Pf1	Pi2	Pf2
STD 100/80ppm S14-122E	90.2	71.3	88.3	101.2					
ACTUAL	100.1	80.1	100.7	101.2					
% DIFF.	9.9%	10.9%	12.3%	0.0%					
		Reported from 3c NQW							
MB NL	0.00	0.00	0.00	0.00	0.00				
LAB AIR NL	0.94	1.91	424.49	0.00	0.00				
3502-001 v	0.41	1.00	v	1.28	0.00	-2.2	3.5		
3502-002 v	2.09	0.00	v	3.16	0.00	-2.6	3.7		
3502-003 v	0.64	0.00	v	3.47	0.00	-2.8	4.2		
3502-004 v	0.43	1578.09	v	11.92	0.00	-0.9	3.5		
3502-005 v	0.87	1996.44	v	15.81	0.00	-2.9	3.5		
3502-006 vv	0.63	v	v	205.43	0.00	-2.1	3.7		
3502-007 v	0.43	270.58	v	4.27	0.00	-2.4	3.5		
3502-008 v	2.80	1.91	v	0.59	0.00	-2.7	3.7		
3502-009 v	0.38	0.00	v	1.51	0.00	-2.8	3.5		
3502-010 v	0.00	1.05	v	1.11	0.00	-2.9	3.5		
3502-011 v	0.53	0.00	v	2.02	0.00	-2.7	3.5		
3502-004 v dup	0.49	1580.32	v	11.77	0.00	-0.9	3.5		
LCS 345ppm S14-040506I	59.64	56.70	56.61	341.72					
ACTUAL	57.9	57.5	57.9	345.0					
% Recovery	103.0%	98.6%	97.8%	99.0%					
STD 100/80ppm S14-122E	92.06	72.44	96.50	101.81					
ACTUAL	100.1	80.1	100.7	101.2					
% DIFF.	8.0%	9.6%	4.2%	0.6%					

✓

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	ND	ND	ND	1.00	1.00	1.00
LAB AIR NL	0.94	1.91	424.49	ND	ND	1.00	1.00	1.00
3502-001 v	ND	1.46	VENT	1.86	0.31	1.00	1.00	1.46
3502-002 v	ND	ND	VENT	4.81	0.80	1.00	1.00	1.52
3502-003 v	ND	ND	VENT	5.51	0.92	1.00	1.00	1.59
3502-004 v	ND	~~2081.24~~	VENT	15.73	2.62	1.00	1.00	1.32
3502-005 v	ND	~~3079.25~~	VENT	24.39	4.06	1.00	1.00	1.54
3502-006 vv	ND	VENT	VENT	300.00	50.00	1.00	1.00	1.46
3502-007 v	ND	400.37	VENT	6.31	1.05	1.00	1.00	1.48
3502-008 v	ND	2.93	VENT	ND	ND	1.00	1.00	1.53
3502-009 v	ND	ND	VENT	2.30	0.38	1.00	1.00	1.53
3502-010 v	ND	1.62	VENT	1.72	0.29	1.00	1.00	1.54
3502-011 v	ND	ND	VENT	3.06	0.51	1.00	1.00	1.52
3502-004 v dup	ND	~~2084.20~~	VENT	15.52	2.59	1.00	1.00	1.32

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

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

WH 10/23/06

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

DATE: 12 / 24 / 2006 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/2006/29 METHOD FILE NAME: J:\GC1\METHODS_____.M

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD 100/80ppm 514-12280601		ZW
02	MB		
03	Lab Air		
04	LCS 345ppm 514-04050602		
05	3397-001 ✓		
06	3502-001 ✓		
07	002 ✓		
08	003 ✓		
09	004 ✓		
10	004 Dup ✓		
11	005 ✓		
12	006 ✓		
13	STD 100/80ppm 514-12280601		
14	3502-006 ✓✓		
15	007 ✓		
16	008 ✓		
17	010 ✓		
18	009 ✓		
19	3561 002		
20	X		

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	X		
22	3561-001 ✓		
23	3502-011 ✓		
24	STD 100/80ppm		
25	3497-001 ✓		
26	3497-002 ✓		
27	STD 100/80ppm 514-12280601		
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
TO-15	Air	MB	Method Blank P061228-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603502

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061227-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: 12/27/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

Data not evaluated

Verified By: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061227-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: 12/27/06
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: Rc Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061228-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: 12/28/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

all ND

Verified By: RC Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061228-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: 12/28/06
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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061229-MB

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

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

Data not evaluated

Verified By: RC Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061229-MB

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

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 12/29/06
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: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603502

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: 12/19 - 12/20/06
Date Received: 12/20/06
Date Analyzed: 12/27 - 12/29/06

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	P061227-MB	103	80-120	101	80-120	101	80-120	
Method Blank	P061228-MB	93	80-120	101	80-120	101	80-120	
Method Blank	P061229-MB	90	80-120	100	80-120	103	80-120	
Lab Control Sample	P061227-LCS	104	80-120	98	80-120	101	80-120	
Lab Control Sample	P061228-LCS	97	80-120	99	80-120	101	80-120	
Lab Control Sample	P061229-LCS	93	80-120	100	80-120	103	80-120	
Duplicate Lab Control Sample	P061227-DLCS	99	80-120	96	80-120	93	80-120	
Duplicate Lab Control Sample	P061228-DLCS	96	80-120	99	80-120	102	80-120	
Duplicate Lab Control Sample	P061229-DLCS	94	80-120	101	80-120	102	80-120	
WDI-VW-49-S-12-19-06	P2603502-001	90	80-120	100	80-120	100	80-120	
WDI-VW-49-I-12-19-06	P2603502-002	95	80-120	100	80-120	104	80-120	
WDI-VW-49-D-12-19-06	P2603502-003	92	80-120	103	80-120	102	80-120	
WDI-VW-55-I-12-19-06	P2603502-004	99	80-120	96	80-120	96	80-120	
WDI-VW-55-I-12-19-06	P2603502-004DUP	97	80-120	97	80-120	96	80-120	
WDI-VW-55-I-12-19-06-SC	P2603502-005	96	80-120	96	80-120	94	80-120	
WDI-VW-55-S-12-19-06	P2603502-006	100	80-120	97	80-120	93	80-120	
WDI-VW-55-S-12-19-06	P2603502-006DUP	99	80-120	99	80-120	96	80-120	
WDI-VW-55-D-12-19-06	P2603502-007	92	80-120	99	80-120	95	80-120	
WDI-VW-41-S-12-19-06	P2603502-008	91	80-120	100	80-120	100	80-120	
WDI-VW-41-D-12-19-06	P2603502-009	90	80-120	99	80-120	101	80-120	
WDI-VW-37-S-12-20-06	P2603502-010	91	80-120	101	80-120	100	80-120	
WDI-VW-37-D-12-20-06	P2603502-011	92	80-120	100	80-120	102	80-120	

Verified By: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061227-LCS, P061227-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: 12/27/06
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	24.5	23.2	101	95	65-135	6	35	
Vinyl Chloride	24.8	22.4	21.8	90	88	65-135	2	35	
Bromomethane	25.0	22.5	22.7	90	91	65-135	1	35	
Chloroethane	25.0	22.2	21.9	89	88	65-135	1	35	
Acetone	26.5	22.6	22.1	85	83	65-135	2	35	
Trichlorofluoromethane	24.3	24.1	22.6	99	93	65-135	6	35	
1,1-Dichloroethene	27.3	26.1	25.5	96	93	65-135	3	35	
Methylene chloride	26.8	24.8	24.2	93	90	65-135	3	35	
Trichlorotrifluoroethane	27.0	19.1	22.5	71	83	65-135	16	35	
Carbon Disulfide	25.0	22.4	22.5	90	90	65-135	0	35	
trans-1,2-Dichloroethene	26.3	25.4	24.5	97	93	65-135	4	35	
1,1-Dichloroethane	26.3	26.6	24.8	101	94	65-135	7	35	
Methyl tert-Butyl Ether	26.3	22.1	23.4	84	89	65-135	6	35	
Vinyl Acetate	24.3	21.2	22.4	87	92	65-135	6	35	
2-Butanone (MEK)	26.8	24.3	25.6	91	96	65-135	5	35	
cis-1,2-Dichloroethene	26.5	26.4	24.9	100	94	65-135	6	35	
Chloroform	30.0	27.9	26.2	93	87	65-135	7	35	
1,2-Dichloroethane	26.0	25.6	25.4	98	98	65-135	0	35	
1,1,1-Trichloroethane	26.3	24.4	25.6	93	97	65-135	4	35	
Benzene	26.3	23.5	24.4	89	93	65-135	4	35	
Carbon Tetrachloride	25.8	24.9	25.5	97	99	65-135	2	35	
1,2-Dichloropropane	26.0	25.4	25.4	98	98	65-135	0	35	

Data not evaluated

Verified By: RL Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061227-LCS, P061227-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: 12/27/06
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	27.9	27.8	101	101	65-135	0	35	
Trichloroethene	27.3	25.7	25.0	94	92	65-135	2	35	
cis-1,3-Dichloropropene	26.0	24.9	24.8	96	95	65-135	1	35	
4-Methyl-2-pentanone	26.5	27.9	28.2	105	106	65-135	0.9	35	
trans-1,3-Dichloropropene	27.8	28.0	28.4	101	102	65-135	1	35	
1,1,2-Trichloroethane	25.8	24.1	24.5	93	95	65-135	2	35	
Toluene	26.0	23.8	23.8	92	92	65-135	0	35	
2-Hexanone	26.0	27.7	27.8	107	107	65-135	0	35	
Dibromochloromethane	26.5	25.5	25.1	96	95	65-135	1	35	
1,2-Dibromoethane	26.0	24.3	23.8	93	92	65-135	1	35	
Tetrachloroethene	25.8	23.9	22.5	93	87	65-135	7	35	
Chlorobenzene	26.0	23.7	24.3	91	93	65-135	2	35	
Ethylbenzene	25.8	24.6	24.8	95	96	65-135	1	35	
m,p-Xylenes	61.5	60.1	59.5	98	97	65-135	1	35	
Bromoform	31.3	29.6	28.4	95	91	65-135	4	35	
Styrene	25.8	25.7	24.2	100	94	65-135	6	35	
o-Xylene	29.0	28.6	27.6	99	95	65-135	4	35	
1,1,2,2-Tetrachloroethane	29.3	28.3	27.4	97	94	65-135	3	35	
1,3-Dichlorobenzene	25.3	24.6	23.2	97	92	65-135	5	35	
1,4-Dichlorobenzene	26.0	25.5	23.9	98	92	65-135	6	35	
1,2-Dichlorobenzene	25.5	24.9	23.4	98	92	65-135	6	35	

Verified By: RC Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061228-LCS, P061228-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: 12/28/06
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	25.8	25.9	94	94	65-135	0	35	
Trichloroethene	27.3	25.0	25.4	92	93	65-135	1	35	
cis-1,3-Dichloropropene	26.0	23.6	23.7	91	91	65-135	0	35	
4-Methyl-2-pentanone	26.5	26.5	26.8	100	101	65-135	1	35	
trans-1,3-Dichloropropene	27.8	26.7	26.8	96	96	65-135	0	35	
1,1,2-Trichloroethane	25.8	24.3	24.5	94	95	65-135	1	35	
Toluene	26.0	23.9	24.4	92	94	65-135	2	35	
2-Hexanone	26.0	25.9	26.3	100	101	65-135	1	35	
Dibromochloromethane	26.5	25.4	25.7	96	97	65-135	1	35	
1,2-Dibromoethane	26.0	24.5	24.9	94	96	65-135	2	35	
Tetrachloroethene	25.8	23.4	23.9	91	93	65-135	2	35	
Chlorobenzene	26.0	24.3	24.6	93	95	65-135	2	35	
Ethylbenzene	25.8	24.6	24.8	95	96	65-135	1	35	
m,p-Xylenes	61.5	59.1	59.7	96	97	65-135	1	35	
Bromoform	31.3	29.3	29.6	94	95	65-135	1	35	
Styrene	25.8	25.2	25.5	98	99	65-135	1	35	
o-Xylene	29.0	28.1	28.2	97	97	65-135	0	35	
1,1,2,2-Tetrachloroethane	29.3	28.0	28.2	96	96	65-135	0	35	
1,3-Dichlorobenzene	25.3	24.2	24.3	96	96	65-135	0	35	
1,4-Dichlorobenzene	26.0	25.1	25.2	97	97	65-135	0	35	
1,2-Dichlorobenzene	25.5	24.6	24.6	96	96	65-135	0	35	

Verified By: RG Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061229-LCS, P061229-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/29/06
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	24.0	23.9	99	98	65-135	1	35	
Vinyl Chloride	24.8	21.5	22.1	87	89	65-135	2	35	
Bromomethane	25.0	23.9	25.0	96	100	65-135	4	35	
Chloroethane	25.0	23.1	23.6	92	94	65-135	2	35	
Acetone	26.5	24.1	24.4	91	92	65-135	1	35	
Trichlorofluoromethane	24.3	23.8	24.2	98	100	65-135	2	35	
1,1-Dichloroethene	27.3	27.8	28.1	102	103	65-135	1	35	
Methylene chloride	26.8	25.9	26.4	97	99	65-135	2	35	
Trichlorotrifluoroethane	27.0	21.6	23.3	80	86	65-135	7	35	
Carbon Disulfide	25.0	23.7	24.2	95	97	65-135	2	35	
trans-1,2-Dichloroethene	26.3	25.7	26.1	98	99	65-135	1	35	
1,1-Dichloroethane	26.3	26.7	26.8	102	102	65-135	0	35	
Methyl tert-Butyl Ether	26.3	22.2	24.0	84	91	65-135	8	35	
Vinyl Acetate	24.3	22.2	23.0	91	95	65-135	4	35	
2-Butanone (MEK)	26.8	25.6	27.3	96	102	65-135	6	35	
cis-1,2-Dichloroethene	26.5	26.3	26.4	99	100	65-135	1	35	
Chloroform	30.0	27.7	27.9	92	93	65-135	1	35	
1,2-Dichloroethane	26.0	24.8	25.3	95	97	65-135	2	35	
1,1,1-Trichloroethane	26.3	25.9	26.1	98	99	65-135	1	35	
Benzene	26.3	26.0	26.2	99	100	65-135	1	35	
Carbon Tetrachloride	25.8	25.8	26.1	100	101	65-135	1	35	
1,2-Dichloropropane	26.0	26.8	26.8	103	103	65-135	0	35	

Data not evaluated

Verified By: RC Date: 1/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603502
CAS Sample ID: P061229-LCS, P061229-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/29/06
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	28.5	28.8	104	105	65-135	1	35	
Trichloroethene	27.3	28.4	28.5	104	104	65-135	0	35	
cis-1,3-Dichloropropene	26.0	26.4	26.3	102	101	65-135	1	35	
4-Methyl-2-pentanone	26.5	29.7	29.6	112	112	65-135	0	35	
trans-1,3-Dichloropropene	27.8	30.1	29.7	108	107	65-135	0.9	35	
1,1,2-Trichloroethane	25.8	27.1	27.2	105	105	65-135	0	35	
Toluene	26.0	27.0	27.3	104	105	65-135	1	35	
2-Hexanone	26.0	28.5	28.8	110	111	65-135	0.9	35	
Dibromochloromethane	26.5	28.5	28.9	108	109	65-135	0.9	35	
1,2-Dibromoethane	26.0	27.5	27.8	106	107	65-135	0.9	35	
Tetrachloroethene	25.8	26.7	26.8	103	104	65-135	1	35	
Chlorobenzene	26.0	27.6	27.6	106	106	65-135	0	35	
Ethylbenzene	25.8	27.6	27.6	107	107	65-135	0	35	
m,p-Xylenes	61.5	66.3	66.0	108	107	65-135	0.9	35	
Bromoform	31.3	33.1	33.2	106	106	65-135	0	35	
Styrene	25.8	28.6	28.5	111	110	65-135	0.9	35	
o-Xylene	29.0	31.4	31.3	108	108	65-135	0	35	
1,1,2,2-Tetrachloroethane	29.3	31.4	31.2	107	106	65-135	0.9	35	
1,3-Dichlorobenzene	25.3	27.4	27.2	108	108	65-135	0	35	
1,4-Dichlorobenzene	26.0	28.2	28.2	108	108	65-135	0	35	
1,2-Dichlorobenzene	25.5	27.6	27.4	108	107	65-135	0.9	35	

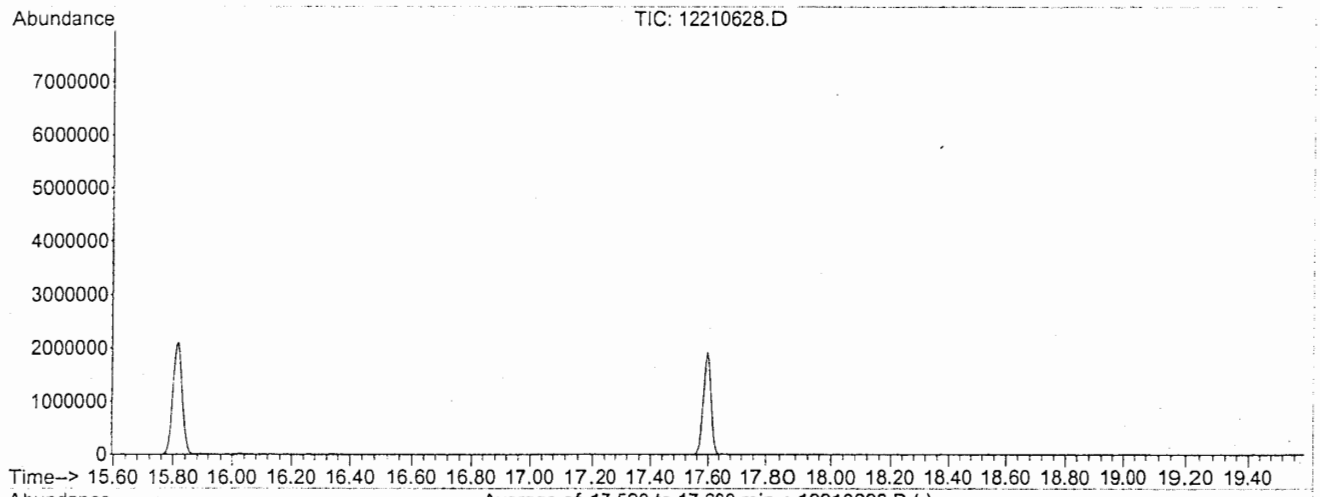
Verified By: RG Date: 1/8/07

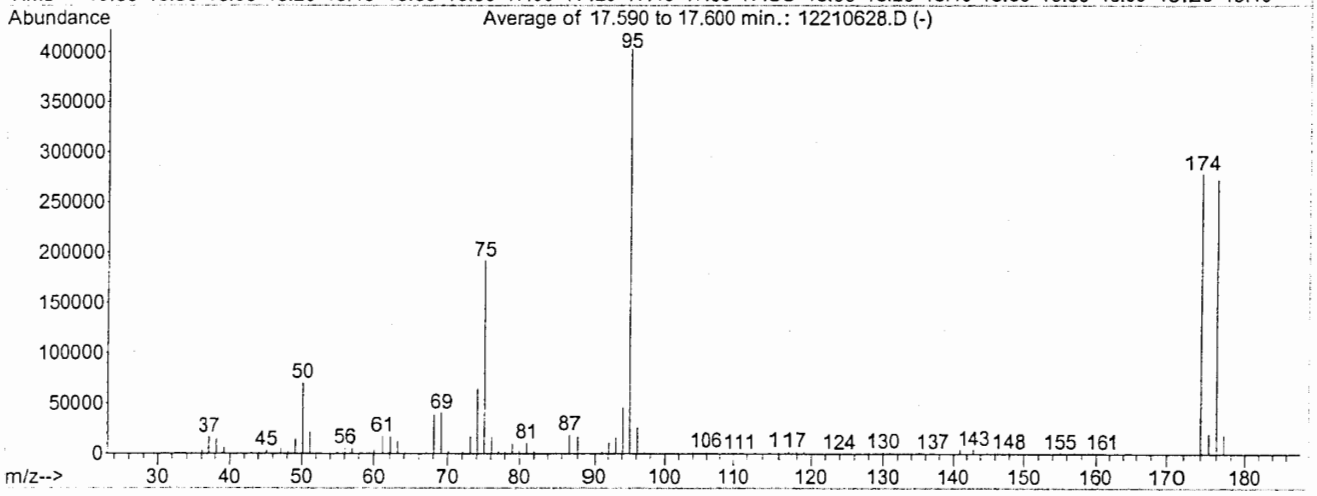
BFB

Data Path : J:\MS08\Data\2006_012\21\
Data File : 12210628.D
Acq On : 22 Dec 2006 4:07
Operator : LM
Sample : TO-15 BFB STD
Misc : S15-12190601
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.4	70200	PASS
75	95	30	66	47.6	191509	PASS
95	95	100	100	100.0	402368	PASS
96	95	5	9	6.4	25920	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	69.1	278080	PASS
175	174	4	9	7.3	20405	PASS
176	174	93	101	97.9	272213	PASS
177	176	5	9	6.7	18154	PASS

LM 12/22/06

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Response Factor Report MS08

Method Path : J:\MS08\METHODS\
Method File : R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006
Response Via : Initial Calibration

all OK for Targets

Calibration Files
0.5 =12210629.D 1 =12210630.D 5 =12210631.D 25 =12210632.D
50 =12210633.D 100 =12210634.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I	----------ISTD----------							
2)	T	Propene	1.639	1.429	1.261	0.940	0.900	0.843	1.169	27.79
3)	T	Dichlorodifluorom	2.887	2.628	2.425	2.189	2.073	1.945	2.358	15.15
4)	T	Chloromethane	2.014	1.983	1.910	1.806	1.717	1.629	1.843	8.28
5)	T	Freon 114	0.770	0.770	0.659	0.593	0.577	0.521	0.648	16.06
6)	T	Vinyl Chloride	1.470	1.513	1.305	1.050	1.040	1.008	1.231	18.57
7)	T	1,3-Butadiene	1.172	1.151	1.047	0.919	0.902	0.836	1.005	13.88
8)	T	Bromomethane	1.142	1.096	1.010	0.900	0.913	0.927	0.998	10.24
9)	T	Chloroethane	1.066	1.024	0.925	0.827	0.802	0.784	0.905	13.26
10)	T	Ethanol	0.685	0.626	0.687	0.808	0.793	0.796	0.732	10.39
11)	T	Acetonitrile	2.219	2.214	2.071	2.088	2.000	1.974	2.094	4.96
12)	T	Acrolein	0.750	0.686	0.696	0.692	0.674	0.656	0.692	4.57
13)	T	Acetone	1.448	1.192	1.099	0.908	0.921	0.912	1.080	19.89
14)	T	Trichlorofluorome	1.772	1.677	1.613	1.553	1.525	1.484	1.604	6.64
15)	T	Isopropanol	3.312	3.188	2.647	2.980	2.566	2.292	2.831	13.92
16)	T	Acrylonitrile	1.519	1.446	1.431	1.485	1.454	1.419	1.459	2.53
17)	T	1,1-Dichloroethen	1.132	1.098	1.106	1.069	1.043	1.021	1.078	3.86
18)	T	tert-Butanol	3.092	3.021	2.736	2.488	2.271	1.934	2.590	17.28
19)	T	Methylene Chlorid	1.370	1.320	1.232	1.175	1.141	1.119	1.226	8.23
20)	T	Allyl Chloride	1.374	1.311	1.449	1.547	1.511	1.509	1.450	6.30
21)	T	Trichlorotrifluor	0.805	0.805	0.659	0.555	0.611	0.667	0.684	14.92
22)	T	Carbon Disulfide	5.640	5.016	4.511	4.239	4.182	4.018	4.601	13.42
23)	T	trans-1,2-Dichlor	1.757	1.763	1.670	1.631	1.637	1.627	1.681	3.76
24)	T	1,1-Dichloroethan	1.901	1.798	1.690	1.695	1.638	1.585	1.718	6.66
25)	T	Methyl tert-Butyl	3.394	3.372	2.838	2.611	2.652	2.597	2.911	12.91
26)	T	Vinyl Acetate	0.254	0.265	0.244	0.238	0.241	0.236	0.246	4.52
27)	T	2-Butanone	0.771	0.766	0.757	0.761	0.760	0.753	0.761	0.86
28)	T	cis-1,2-Dichloroe	1.683	1.603	1.535	1.525	1.526	1.498	1.562	4.43
29)	T	Diisopropyl Ether	0.950	0.913	0.812	0.769	0.764	0.734	0.824	10.68
30)	T	Ethyl Acetate	0.358	0.407	0.388	0.370	0.364	0.353	0.373	5.51
31)	T	n-Hexane	1.888	1.846	1.523	1.337	1.371	1.333	1.550	16.50
32)	T	Chloroform	1.990	1.926	1.661	1.680	1.554	1.460	1.712	12.12
33)	S	1,2-Dichloroethan	1.849	1.894	1.770	1.773	1.733	1.676	1.783	4.40
34)	T	Tetrahydrofuran	0.774	0.796	0.757	0.741	0.743	0.636	0.741	7.49
35)	T	Ethyl tert-Butyl	1.347	1.326	1.179	1.156	1.144	1.124	1.213	8.06
36)	T	1,2-Dichloroethan	1.628	1.627	1.514	1.496	1.502	1.417	1.531	5.37
37)	IR	1,4-Difluorobenzene (	----------ISTD----------							
38)	T	1,1,1-Trichloroet	0.402	0.395	0.364	0.371	0.364	0.364	0.377	4.63
39)	T	Isopropyl Acetate	0.157	0.148	0.149	0.159	0.152	0.148	0.152	3.05
40)	T	1-Butanol	0.157	0.149	0.166	0.216	0.201	0.192	0.180	14.79
41)	T	Benzene	1.102	1.033	0.953	0.938	0.909	0.896	0.972	8.21
42)	T	Carbon Tetrachlor	0.330	0.325	0.308	0.317	0.313	0.315	0.318	2.60
43)	T	Cyclohexane	0.405	0.398	0.338	0.330	0.329	0.330	0.355	10.14
44)	T	tert-Amyl Methyl	0.712	0.693	0.650	0.669	0.646	0.629	0.666	4.70
45)	T	1,2-Dichloropropa	0.266	0.246	0.242	0.246	0.237	0.235	0.246	4.46
46)	T	Bromodichlorometh	0.332	0.330	0.331	0.343	0.328	0.326	0.332	1.80
47)	T	Trichloroethene	0.251	0.235	0.228	0.229	0.221	0.217	0.230	5.25
48)	T	1,4-Dioxane	0.181	0.181	0.187	0.201	0.190	0.182	0.187	4.19
49)	T	Isooctane	0.991	0.947	0.869	0.873	0.843	0.818	0.890	7.39
50)	T	Methyl Methacryla	0.094	0.088	0.092	0.102	0.098	0.096	0.095	5.42
51)	T	n-Heptane	0.255	0.245	0.232	0.227	0.221	0.216	0.233	6.36
52)	T	cis-1,3-Dichlorop	0.418	0.408	0.412	0.425	0.406	0.389	0.410	3.00
53)	T	4-Methyl-2-pentan	0.217	0.221	0.228	0.226	0.216	0.202	0.218	4.32
54)	T	trans-1,3-Dichlor	0.372	0.372	0.373	0.395	0.381	0.373	0.377	2.50
55)	T	1,1,2-Trichloroet	0.256	0.250	0.239	0.245	0.237	0.230	0.243	3.95
56)	I	Chlorobenzene-d5 (IS3	----------ISTD----------							
57)	S	Toluene-d8 (SS2)	1.978	1.986	1.965	1.979	2.003	2.009	1.986	0.83

Response Factor Report MS08

Method Path : J:\MS08\METHODS\
Method File : R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006
Response Via : Initial Calibration

Calibration Files
0.5 =12210629.D 1 =12210630.D 5 =12210631.D 25 =12210632.D
50 =12210633.D 100 =12210634.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
58)	T	Toluene	2.029	1.911	1.865	1.857	1.796	1.701	1.860	5.92
59)	T	2-Hexanone	0.985	1.010	1.028	1.029	0.994	0.930	0.996	3.68
60)	T	Dibromochlorometh	0.473	0.473	0.476	0.496	0.484	0.468	0.478	2.10
61)	T	1,2-Dibromoethane	0.530	0.504	0.512	0.528	0.510	0.492	0.513	2.83
62)	T	Butyl Acetate	1.023	1.067	1.091	1.134	1.113	1.046	1.079	3.86
63)	T	n-Octane	0.394	0.370	0.374	0.382	0.369	0.344	0.372	4.52
64)	T	Tetrachloroethene	0.477	0.434	0.422	0.427	0.412	0.402	0.429	6.08
65)	T	Chlorobenzene	1.334	1.278	1.199	1.227	1.186	1.131	1.226	5.86
66)	T	Ethylbenzene	2.241	2.186	2.180	2.215	2.123	2.002	2.158	3.99
67)	T	m- & p-Xylene	1.468	1.428	1.421	1.438	1.365	1.272	1.399	5.05
68)	T	Bromoform	0.290	0.305	0.302	0.325	0.313	0.301	0.306	3.96
69)	T	Styrene	1.280	1.272	1.296	1.359	1.302	1.221	1.288	3.47
70)	T	o-Xylene	1.570	1.558	1.539	1.570	1.482	1.380	1.517	4.93
71)	T	n-Nonane	0.894	0.881	0.879	0.919	0.866	0.802	0.874	4.49
72)	T	1,1,2,2-Tetrachlo	0.735	0.726	0.733	0.756	0.719	0.680	0.725	3.47
73)	S	Bromofluorobenzen	0.685	0.683	0.681	0.687	0.672	0.658	0.678	1.63
74)	T	Cumene	2.092	1.970	1.928	2.042	1.925	1.799	1.959	5.24
75)	T	alpha-Pinene	1.000	1.008	1.019	1.074	1.034	0.978	1.019	3.20
76)	T	n-Propylbenzene	2.645	2.589	2.588	2.753	2.577	2.371	2.587	4.82
77)	T	3-Ethyltoluene	2.139	2.085	2.124	2.264	2.079	2.020	2.119	3.89
78)	T	4-Ethyltoluene	2.096	2.076	2.048	2.068	1.973	1.763	2.004	6.27
79)	T	1,3,5-Trimethylbe	1.813	1.784	1.776	1.822	1.707	1.589	1.749	5.04
80)	T	alpha-Methylstyre	0.837	0.838	0.893	1.019	0.965	0.910	0.910	7.86
81)	T	2-Ethyltoluene	2.258	2.180	2.156	2.269	2.115	1.966	2.157	5.13
82)	T	1,2,4-Trimethylbe	1.807	1.777	1.800	1.826	1.689	1.580	1.747	5.42
83)	T	n-Decane	0.967	0.973	0.949	1.013	0.932	0.854	0.948	5.67
84)	T	Benzyl Chloride	1.570	1.609	1.687	1.785	1.683	1.559	1.649	5.21
85)	T	1,3-Dichlorobenze	0.990	0.957	0.964	0.978	0.930	0.866	0.947	4.72
86)	T	1,4-Dichlorobenze	0.973	0.957	0.929	0.955	0.894	0.835	0.924	5.57
87)	T	sec-Butylbenzene	2.368	2.349	2.313	2.432	2.253	2.058	2.296	5.69
88)	T	p-Isopropyltoluen	1.898	1.854	1.847	1.976	1.824	1.655	1.842	5.77
89)	T	1,2,3-Trimethylbe	1.703	1.665	1.664	1.783	1.640	1.528	1.664	5.00
90)	T	1,2-Dichlorobenze	0.944	0.932	0.913	0.915	0.859	0.780	0.891	6.92
91)	T	d-Limonene	0.645	0.655	0.687	0.778	0.718	0.661	0.691	7.27
92)	T	1,2-Dibromo-3-Chl	0.241	0.247	0.286	0.339	0.319	0.300	0.289	13.49
93)	T	n-Undecane	0.761	0.789	0.797	0.890	0.807	0.755	0.800	6.08
94)	T	1,2,4-Trichlorobe	0.154	0.166	0.180	0.189	0.179	0.171	0.173	7.15
95)	T	Naphthalene	1.498	1.709	1.878	2.227	2.084	1.980	1.896	13.87
96)	T	n-Dodecane	0.499	0.567	0.553	0.566	0.534	0.514	0.539	5.23
97)	T	Hexachloro-1,3-bu	0.265	0.284	0.292	0.308	0.294	0.280	0.287	5.10

(#) = Out of Range

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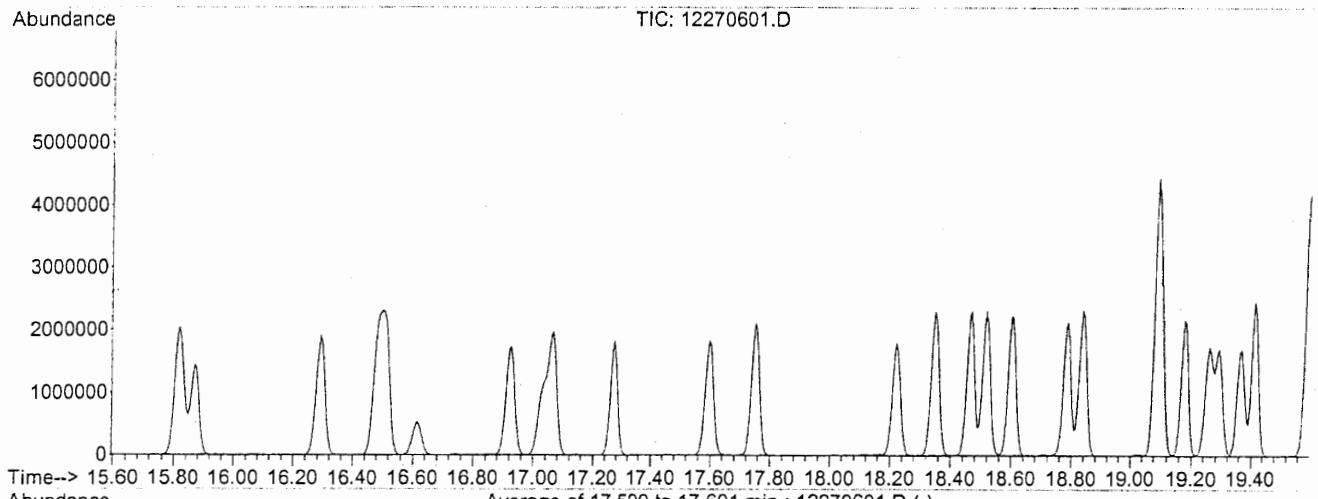
BFB

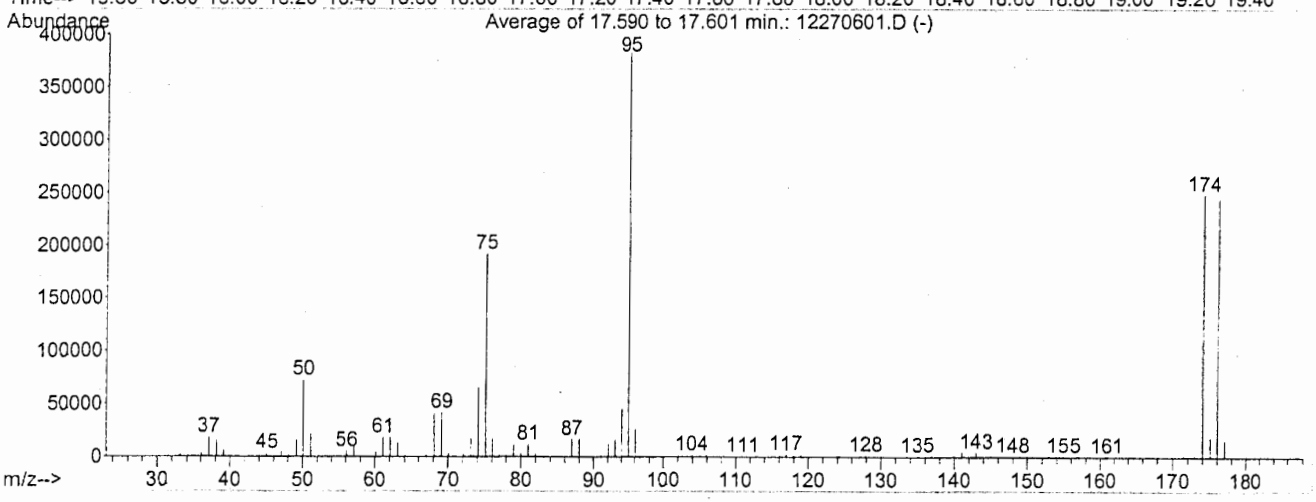
Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270601.D
Acq On : 27 Dec 2006 8:53
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.0	72424	PASS
75	95	30	66	50.1	191616	PASS
95	95	100	100	100.0	382122	PASS
96	95	5	9	6.7	25733	PASS
173	174	0.00	2	0.5	1152	PASS
174	95	50	120	64.9	247914	PASS
175	174	4	9	7.3	18096	PASS
176	174	93	101	98.4	243968	PASS
177	176	5	9	6.6	16028	PASS

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270601.D
Acq On : 27 Dec 2006 8:53
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 10:35:26 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

Data not evaluated

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	111	0.00
2	T	Propene	1.169	0.936	19.9	111	0.00
3	T	Dichlorodifluoromethane	2.358	2.173	7.8	110	0.00
4	T	Chloromethane	1.843	1.744	5.4	107	0.00
5	T	Freon 114	0.648	0.621	4.2	116	0.00
6	T	Vinyl Chloride	1.231	1.018	17.3	108	0.00
7	T	1,3-Butadiene	1.005	0.886	11.8	107	0.00
8	T	Bromomethane	0.998	0.890	10.8	110	0.00
9	T	Chloroethane	0.905	0.783	13.5	105	0.00
10	T	Ethanol	0.732	0.764	-4.4	105	0.01
11	T	Acetonitrile	2.094	1.900	9.3	101	0.00
12	T	Acrolein	0.692	0.653	5.6	105	0.00
13	T	Acetone	1.080	0.865	19.9	106	0.00
14	T	Trichlorofluoromethane	1.604	1.554	3.1	111	0.00
15	T	Isopropanol	2.831	2.609	7.8	97	0.01
16	T	Acrylonitrile	1.459	1.401	4.0	105	0.00
17	T	1,1-Dichloroethene	1.078	1.028	4.6	107	0.00
18	T	tert-Butanol	2.590	2.270	12.4	101	0.01
19	T	Methylene Chloride	1.226	1.113	9.2	105	0.00
20	T	Allyl Chloride	1.450	1.481	-2.1	106	0.00
21	T	Trichlorotrifluoroethane	0.684	0.494	27.8	99	0.00
22	T	Carbon Disulfide	4.601	4.022	12.6	105	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.523	9.4	104	0.00
24	T	1,1-Dichloroethane	1.718	1.636	4.8	107	0.00
25	T	Methyl tert-Butyl Ether	2.911	2.370	18.6	101	0.00
26	T	Vinyl Acetate	0.246	0.224	8.9	105	0.00
27	T	2-Butanone	0.761	0.675	11.3	99	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.443	7.6	105	0.00
29	T	Diisopropyl Ether	0.824	0.695	15.7	100	0.00
30	T	Ethyl Acetate	0.373	0.328	12.1	99	0.00
31	T	n-Hexane	1.550	1.176	24.1	98	0.00
32	T	Chloroform	1.712	1.605	6.2	106	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.735	2.7	109	0.00
34	T	Tetrahydrofuran	0.741	0.649	12.4	97	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.042	14.1	100	0.00
36	T	1,2-Dichloroethane	1.531	1.380	9.9	103	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	107	0.00
38	T	1,1,1-Trichloroethane	0.377	0.351	6.9	102	0.00
39	T	Isopropyl Acetate	0.152	0.147	3.3	100	0.00
40	T	1-Butanol	0.180	0.196	-8.9	98	0.00
41	T	Benzene	0.972	0.886	8.8	102	0.00
42	T	Carbon Tetrachloride	0.318	0.299	6.0	102	0.00
43	T	Cyclohexane	0.355	0.308	13.2	100	0.00
44	T	tert-Amyl Methyl Ether	0.666	0.628	5.7	101	0.00
45	T	1,2-Dichloropropane	0.246	0.232	5.7	101	0.00
46	T	Bromodichloromethane	0.332	0.326	1.8	102	0.00
47	T	Trichloroethene	0.230	0.217	5.7	102	0.00
48	T	1,4-Dioxane	0.187	0.183	2.1	98	0.00
49	T	Isooctane	0.890	0.792	11.0	98	0.00
50	T	Methyl Methacrylate	0.095	0.097	-2.1	102	0.00
51	T	n-Heptane	0.233	0.210	9.9	99	0.00

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270601.D
Acq On : 27 Dec 2006 8:53
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 10:35:26 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.404	1.5	102	0.00
53	T	4-Methyl-2-pentanone	0.218	0.211	3.2	100	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.378	-0.3	103	0.00
55	T	1,1,2-Trichloroethane	0.243	0.231	4.9	101	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	106	0.00
57	S	Toluene-d8 (SS2)	1.986	1.975	0.6	105	0.00
58	T	Toluene	1.860	1.775	4.6	101	0.00
59	T	2-Hexanone	0.996	0.991	0.5	102	0.00
60	T	Dibromochloromethane	0.478	0.473	1.0	101	0.00
61	T	1,2-Dibromoethane	0.513	0.499	2.7	100	0.00
62	T	Butyl Acetate	1.079	1.105	-2.4	103	0.00
63	T	n-Octane	0.372	0.371	0.3	102	0.00
64	T	Tetrachloroethene	0.429	0.393	8.4	97	0.00
65	T	Chlorobenzene	1.226	1.149	6.3	99	0.00
66	T	Ethylbenzene	2.158	2.100	2.7	100	0.00
67	T	m- & p-Xylene	1.399	1.361	2.7	100	0.00
68	T	Bromoform	0.306	0.296	3.3	96	0.00
69	T	Styrene	1.288	1.243	3.5	97	0.00
70	T	o-Xylene	1.517	1.462	3.6	98	0.00
71	T	n-Nonane	0.874	0.909	-4.0	104	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.688	5.1	96	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.627	7.5	96	0.00
74	T	Cumene	1.959	1.889	3.6	98	0.00
75	T	alpha-Pinene	1.019	0.984	3.4	97	0.00
76	T	n-Propylbenzene	2.587	2.560	1.0	98	0.00
77	T	3-Ethyltoluene	2.119	2.030	4.2	95	0.00
78	T	4-Ethyltoluene	2.004	1.931	3.6	99	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.673	4.3	97	0.00
80	T	alpha-Methylstyrene	0.910	0.898	1.3	93	0.00
81	T	2-Ethyltoluene	2.157	2.072	3.9	96	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.678	3.9	97	0.00
83	T	n-Decane	0.948	0.945	0.3	98	0.00
84	T	Benzyl Chloride	1.649	1.629	1.2	96	0.00
85	T	1,3-Dichlorobenzene	0.947	0.860	9.2	93	0.00
86	T	1,4-Dichlorobenzene	0.924	0.842	8.9	93	0.00
87	T	sec-Butylbenzene	2.296	2.195	4.4	95	0.00
88	T	p-Isopropyltoluene	1.842	1.791	2.8	96	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.625	2.3	96	0.00
90	T	1,2-Dichlorobenzene	0.891	0.805	9.7	93	0.00
91	T	d-Limonene	0.691	0.711	-2.9	96	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.290	-0.3	90	0.00
93	T	n-Undecane	0.800	0.801	-0.1	95	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.168	2.9	93	0.00
95	T	Naphthalene	1.896	2.009	-6.0	95	0.00
96	T	n-Dodecane	0.539	0.541	-0.4	101	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.266	7.3	91	0.00

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

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270603.D
Acq On : 27 Dec 2006 10:53
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 09:02:06 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	99	-0.02
2	T	Propene	1.169	1.368	-17.0	95	0.01
3	T	Dichlorodifluoromethane	2.358	2.608	-10.6	98	0.01
4	T	Chloromethane	1.843	2.025	-9.9	101	0.00
5	T	Freon 114	0.648	0.770	-18.8	99	0.00
6	T	Vinyl Chloride	1.231	1.469	-19.3	96	0.00
7	T	1,3-Butadiene	1.005	1.195	-18.9	103	0.00
8	T	Bromomethane	0.998	1.010	-1.2	91	0.00
9	T	Chloroethane	0.905	0.929	-2.7	90	0.00
10	T	Ethanol	0.732	0.764	-4.4	120	-0.02
11	T	Acetonitrile	2.094	2.190	-4.6	98	0.00
12	T	Acrolein	0.692	0.650	6.1	94	0.00
13	T	Acetone	1.080	1.279	-18.4	106	0.00
14	T	Trichlorofluoromethane	1.604	1.718	-7.1	101	0.00
15	T	Isopropanol	2.831	3.062	-8.2	95	-0.02
16	T	Acrylonitrile	1.459	1.409	3.4	96	-0.01
17	T	1,1-Dichloroethene	1.078	1.077	0.1	97	-0.01
18	T	tert-Butanol	2.590	3.088	-19.2	101	-0.02
19	T	Methylene Chloride	1.226	1.270	-3.6	95	-0.02
20	T	Allyl Chloride	1.450	1.402	3.3	106	-0.01
21	T	Trichlorotrifluoroethane	0.684	0.652	4.7	80	0.00
22	T	Carbon Disulfide	4.601	4.753	-3.3	94	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.679	0.1	94	-0.02
24	T	1,1-Dichloroethane	1.718	1.899	-10.5	104	-0.02
25	T	Methyl tert-Butyl Ether	2.911	3.001	-3.1	88	0.00
26	T	Vinyl Acetate	0.246	0.251	-2.0	94	-0.02
27	T	2-Butanone	0.761	0.751	1.3	97	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.567	-0.3	97	-0.02
29	T	Diisopropyl Ether	0.824	0.834	-1.2	90	-0.01
30	T	Ethyl Acetate	0.373	0.375	-0.5	91	-0.01
31	T	n-Hexane	1.550	1.610	-3.9	86	0.00
32	T	Chloroform	1.712	1.906	-11.3	98	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.987	-11.4	104	-0.02
34	T	Tetrahydrofuran	0.741	0.712	3.9	88	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.190	1.9	89	-0.01
36	T	1,2-Dichloroethane	1.531	1.645	-7.4	100	-0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	97	-0.01
38	T	1,1,1-Trichloroethane	0.377	0.375	0.5	92	-0.02
39	T	Isopropyl Acetate	0.152	0.138	9.2	90	-0.01
40	T	1-Butanol	0.180	0.160	11.1	103	0.00
41	T	Benzene	0.972	0.983	-1.1	92	-0.01
42	T	Carbon Tetrachloride	0.318	0.292	8.2	87	-0.01
43	T	Cyclohexane	0.355	0.362	-2.0	88	-0.01
44	T	tert-Amyl Methyl Ether	0.666	0.641	3.8	89	-0.01
45	T	1,2-Dichloropropane	0.246	0.239	2.8	94	-0.01
46	T	Bromodichloromethane	0.332	0.317	4.5	93	-0.01
47	T	Trichloroethene	0.230	0.210	8.7	87	-0.01
48	T	1,4-Dioxane	0.187	0.176	5.9	94	0.00
49	T	Isooctane	0.890	0.891	-0.1	91	0.00
50	T	Methyl Methacrylate	0.095	0.087	8.4	96	-0.01
51	T	n-Heptane	0.233	0.222	4.7	88	-0.02

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270603.D
Acq On : 27 Dec 2006 10:53
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 09:02:06 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.389	5.1	92	0.00
53	T	4-Methyl-2-pentanone	0.218	0.218	0.0	95	-0.01
54	T	trans-1,3-Dichloropropene	0.377	0.365	3.2	95	-0.01
55	T	1,1,2-Trichloroethane	0.243	0.238	2.1	92	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	100	0.00
57	S	Toluene-d8 (SS2)	1.986	1.929	2.9	97	-0.01
58	T	Toluene	1.860	1.802	3.1	94	-0.01
59	T	2-Hexanone	0.996	1.017	-2.1	101	-0.01
60	T	Dibromochloromethane	0.478	0.432	9.6	91	-0.01
61	T	1,2-Dibromoethane	0.513	0.476	7.2	94	-0.01
62	T	Butyl Acetate	1.079	1.048	2.9	98	0.00
63	T	n-Octane	0.372	0.370	0.5	100	-0.02
64	T	Tetrachloroethene	0.429	0.400	6.8	92	0.00
65	T	Chlorobenzene	1.226	1.225	0.1	96	0.00
66	T	Ethylbenzene	2.158	2.160	-0.1	99	-0.01
67	T	m- & p-Xylene	1.399	1.405	-0.4	98	-0.02
68	T	Bromoform	0.306	0.274	10.5	90	-0.01
69	T	Styrene	1.288	1.219	5.4	96	0.00
70	T	o-Xylene	1.517	1.491	1.7	95	-0.01
71	T	n-Nonane	0.874	0.864	1.1	98	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.680	6.2	93	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.683	-0.7	100	0.00
74	T	Cumene	1.959	1.936	1.2	98	0.00
75	T	alpha-Pinene	1.019	0.966	5.2	96	0.00
76	T	n-Propylbenzene	2.587	2.502	3.3	96	0.00
77	T	3-Ethyltoluene	2.119	1.976	6.7	95	0.00
78	T	4-Ethyltoluene	2.004	2.023	-0.9	97	-0.01
79	T	1,3,5-Trimethylbenzene	1.749	1.716	1.9	96	0.00
80	T	alpha-Methylstyrene	0.910	0.752	17.4	89	0.00
81	T	2-Ethyltoluene	2.157	2.068	4.1	95	-0.01
82	T	1,2,4-Trimethylbenzene	1.747	1.679	3.9	94	-0.01
83	T	n-Decane	0.948	0.921	2.8	94	0.00
84	T	Benzyl Chloride	1.649	1.497	9.2	93	0.00
85	T	1,3-Dichlorobenzene	0.947	0.886	6.4	92	0.00
86	T	1,4-Dichlorobenzene	0.924	0.836	9.5	87	0.00
87	T	sec-Butylbenzene	2.296	2.136	7.0	91	0.00
88	T	p-Isopropyltoluene	1.842	1.708	7.3	92	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.567	5.8	94	0.00
90	T	1,2-Dichlorobenzene	0.891	0.826	7.3	88	-0.01
91	T	d-Limonene	0.691	0.608	12.0	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.223	22.8	90	0.00
93	T	n-Undecane	0.800	0.750	6.3	95	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.151	12.7	91	0.00
95	T	Naphthalene	1.896	1.592	16.0	93	0.00
96	T	n-Dodecane	0.539	0.598	-10.9	105	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.254	11.5	89	0.00

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

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270616.D
Acq On : 27 Dec 2006 20:34
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607(closing CCV)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 09:13:38 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	118	0.00
2	T	Propene	1.169	0.813	30.5#	102	0.00
3	T	Dichlorodifluoromethane	2.358	1.945	17.5	105	0.00
4	T	Chloromethane	1.843	1.564	15.1	102	0.00
5	T	Freon 114	0.648	0.559	13.7	112	0.00
6	T	Vinyl Chloride	1.231	0.937	23.9	106	0.00
7	T	1,3-Butadiene	1.005	0.831	17.3	107	0.00
8	T	Bromomethane	0.998	0.868	13.0	114	0.00
9	T	Chloroethane	0.905	0.774	14.5	111	0.00
10	T	Ethanol	0.732	0.737	-0.7	108	0.00
11	T	Acetonitrile	2.094	1.868	10.8	106	0.00
12	T	Acrolein	0.692	0.637	7.9	109	0.00
13	T	Acetone	1.080	0.852	21.1	111	0.00
14	T	Trichlorofluoromethane	1.604	1.471	8.3	112	0.00
15	T	Isopropanol	2.831	2.697	4.7	107	0.00
16	T	Acrylonitrile	1.459	1.367	6.3	109	0.00
17	T	1,1-Dichloroethene	1.078	1.014	5.9	112	0.00
18	T	tert-Butanol	2.590	2.264	12.6	108	0.00
19	T	Methylene Chloride	1.226	1.103	10.0	111	0.00
20	T	Allyl Chloride	1.450	1.420	2.1	109	0.00
21	T	Trichlorotrifluoroethane	0.684	0.494	27.8	105	0.00
22	T	Carbon Disulfide	4.601	3.950	14.1	110	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.486	11.6	108	0.00
24	T	1,1-Dichloroethane	1.718	1.595	7.2	111	0.00
25	T	Methyl tert-Butyl Ether	2.911	2.365	18.8	107	0.00
26	T	Vinyl Acetate	0.246	0.225	8.5	112	0.00
27	T	2-Butanone	0.761	0.712	6.4	111	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.425	8.8	111	0.00
29	T	Diisopropyl Ether	0.824	0.708	14.1	109	0.00
30	T	Ethyl Acetate	0.373	0.343	8.0	110	0.00
31	T	n-Hexane	1.550	1.174	24.3	104	0.00
32	T	Chloroform	1.712	1.581	7.7	111	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.684	5.6	112	0.00
34	T	Tetrahydrofuran	0.741	0.678	8.5	108	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.062	12.4	109	0.00
36	T	1,2-Dichloroethane	1.531	1.351	11.8	107	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	115	0.00
38	T	1,1,1-Trichloroethane	0.377	0.341	9.5	106	0.00
39	T	Isopropyl Acetate	0.152	0.152	0.0	111	0.00
40	T	1-Butanol	0.180	0.199	-10.6	106	0.00
41	T	Benzene	0.972	0.893	8.1	110	0.00
42	T	Carbon Tetrachloride	0.318	0.294	7.5	107	0.00
43	T	Cyclohexane	0.355	0.309	13.0	108	0.00
44	T	tert-Amyl Methyl Ether	0.666	0.630	5.4	109	0.00
45	T	1,2-Dichloropropane	0.246	0.232	5.7	109	0.00
46	T	Bromodichloromethane	0.332	0.322	3.0	108	0.00
47	T	Trichloroethene	0.230	0.222	3.5	112	0.00
48	T	1,4-Dioxane	0.187	0.189	-1.1	109	0.00
49	T	Isooctane	0.890	0.802	9.9	106	0.00
50	T	Methyl Methacrylate	0.095	0.099	-4.2	112	0.00
51	T	n-Heptane	0.233	0.216	7.3	110	0.00

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\27\
Data File : 12270616.D
Acq On : 27 Dec 2006 20:34
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607(closing CCV)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 09:13:38 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.403	1.7	110	0.00
53	T	4-Methyl-2-pentanone	0.218	0.211	3.2	107	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.373	1.1	109	0.00
55	T	1,1,2-Trichloroethane	0.243	0.237	2.5	111	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	114	0.00
57	S	Toluene-d8 (SS2)	1.986	2.004	-0.9	116	0.00
58	T	Toluene	1.860	1.798	3.3	111	0.00
59	T	2-Hexanone	0.996	0.962	3.4	107	0.00
60	T	Dibromochloromethane	0.478	0.480	-0.4	111	0.00
61	T	1,2-Dibromoethane	0.513	0.509	0.8	110	0.00
62	T	Butyl Acetate	1.079	1.065	1.3	108	0.00
63	T	n-Octane	0.372	0.366	1.6	110	0.00
64	T	Tetrachloroethene	0.429	0.418	2.6	112	0.00
65	T	Chlorobenzene	1.226	1.203	1.9	112	0.00
66	T	Ethylbenzene	2.158	2.139	0.9	111	0.00
67	T	m- & p-Xylene	1.399	1.385	1.0	110	0.00
68	T	Bromoform	0.306	0.312	-2.0	110	0.00
69	T	Styrene	1.288	1.309	-1.6	110	0.00
70	T	o-Xylene	1.517	1.502	1.0	109	0.00
71	T	n-Nonane	0.874	0.862	1.4	107	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.715	1.4	108	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.688	-1.5	115	0.00
74	T	Cumene	1.959	1.955	0.2	110	0.00
75	T	alpha-Pinene	1.019	1.018	0.1	109	0.00
76	T	n-Propylbenzene	2.587	2.605	-0.7	108	0.00
77	T	3-Ethyltoluene	2.119	2.129	-0.5	108	0.00
78	T	4-Ethyltoluene	2.004	2.009	-0.2	111	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.740	0.5	109	0.00
80	T	alpha-Methylstyrene	0.910	0.964	-5.9	108	0.00
81	T	2-Ethyltoluene	2.157	2.171	-0.6	110	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.721	1.5	108	0.00
83	T	n-Decane	0.948	0.945	0.3	107	0.00
84	T	Benzyl Chloride	1.649	1.674	-1.5	107	0.00
85	T	1,3-Dichlorobenzene	0.947	0.947	0.0	111	0.00
86	T	1,4-Dichlorobenzene	0.924	0.914	1.1	110	0.00
87	T	sec-Butylbenzene	2.296	2.304	-0.3	108	0.00
88	T	p-Isopropyltoluene	1.842	1.867	-1.4	108	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.671	-0.4	107	0.00
90	T	1,2-Dichlorobenzene	0.891	0.875	1.8	109	0.00
91	T	d-Limonene	0.691	0.713	-3.2	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.317	-9.7	107	0.00
93	T	n-Undecane	0.800	0.800	0.0	103	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.176	-1.7	106	0.00
95	T	Naphthalene	1.896	2.072	-9.3	106	0.00
96	T	n-Dodecane	0.539	0.546	-1.3	110	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.289	-0.7	107	0.00

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

LM 12/28/06

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603502

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: 12270601.D
Date Analyzed: 12/27/06
Time Analyzed: 08:53

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	369505	9.07	1568366	11.00	839773	15.82
	Upper Limit	517307	9.40	2195712	11.33	1175682	16.15
	Lower Limit	221703	8.74	941020	10.67	503864	15.49
	Client Sample ID						
01	Method Blank	332321	9.04	1628266	10.98	877339	15.81
02	Lab Control Sample	326285	9.07	1439046	11.00	803260	15.82
03	Duplicate Lab Control Sample	349357	9.08	1496595	11.00	842413	15.82
04	WDI-VW-49-I-12-19-06 (Dilution)	354871	9.04	1703629	10.98	887658	15.81
05	WDI-VW-55-I-12-19-06	374148	9.05	1710674	10.99	964668	15.82
06	WDI-VW-55-I-12-19-06 (Lab Duplicate)	383530	9.05	1734823	10.99	968867	15.82
07	WDI-VW-49-I-12-19-06	402656	9.04	1740289	10.98	936908	15.81
08	WDI-VW-49-S-12-19-06	386516	9.06	1792846	10.98	952776	15.81
09	WDI-VW-49-D-12-19-06	383084	9.05	1788095	10.98	926815	15.81
10	WDI-VW-55-I-12-19-06-SC	381187	9.05	1688317	10.99	974795	15.82
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

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

Data not evaluated

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

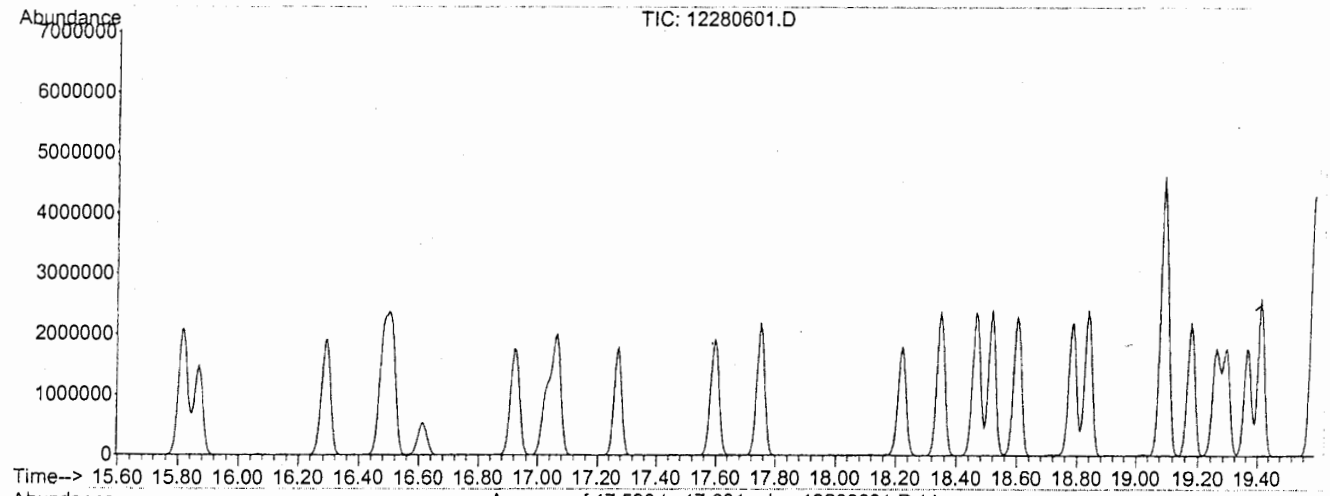
Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

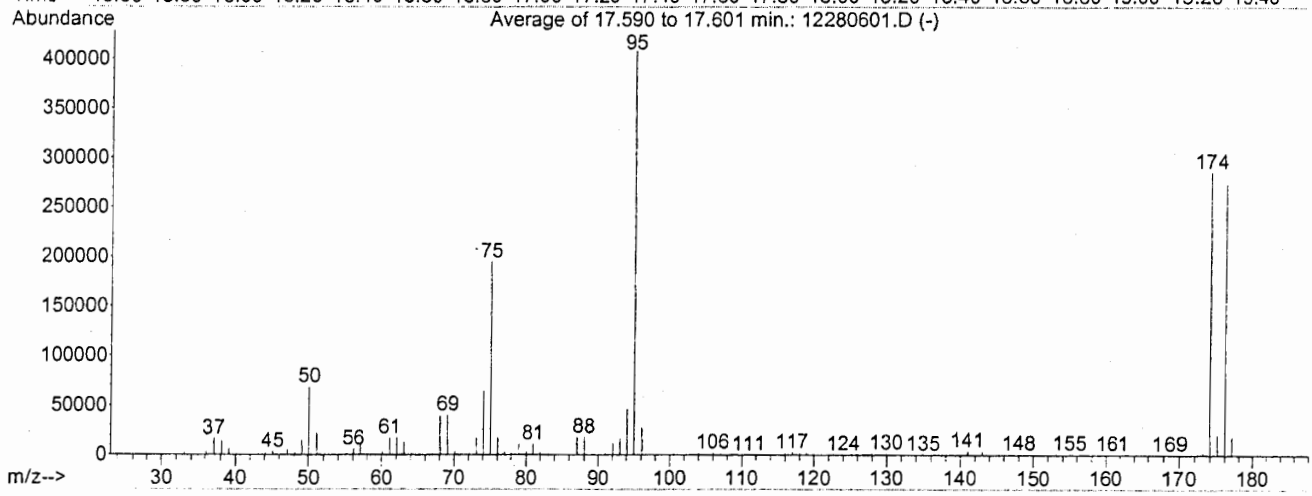
Verified by: Re Date: 1/8/07

Data Path : J:\MS08\Data\2006_012\28\
Data File : 12280601.D
Acq On : 28 Dec 2006 7:42
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2488

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.7	68098	PASS
75	95	30	66	47.7	194538	PASS
95	95	100	100	100.0	408000	PASS
96	95	5	9	6.6	27085	PASS
173	174	0.00	2	0.8	2161	PASS
174	95	50	120	70.0	285653	PASS
175	174	4	9	7.2	20496	PASS
176	174	93	101	95.8	273557	PASS
177	176	5	9	6.7	18242	PASS

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\28\
Data File : 12280601.D
Acq On : 28 Dec 2006 7:42
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:24:23 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

all OK for targets
%D ≤ 30%
RRFs ≥ 0.05

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	115	0.00
2	T	Propene	1.169	0.934	20.1	114	0.00
3	T	Dichlorodifluoromethane	2.358	2.188	7.2	115	0.00
4	T	Chloromethane	1.843	1.756	4.7	111	0.00
5	T	Freon 114	0.648	0.617	4.8	119	0.00
6	T	Vinyl Chloride	1.231	1.023	16.9	112	0.00
7	T	1,3-Butadiene	1.005	0.888	11.6	111	0.00
8	T	Bromomethane	0.998	0.884	11.4	113	0.00
9	T	Chloroethane	0.905	0.790	12.7	110	0.00
10	T	Ethanol	0.732	0.767	-4.8	109	0.01
11	T	Acetonitrile	2.094	1.928	7.9	106	0.00
12	T	Acrolein	0.692	0.651	5.9	108	0.00
13	T	Acetone	1.080	0.863	20.1	109	0.00
14	T	Trichlorofluoromethane	1.604	1.535	4.3	113	0.00
15	T	Isopropanol	2.831	2.638	6.8	102	0.01
16	T	Acrylonitrile	1.459	1.399	4.1	108	0.00
17	T	1,1-Dichloroethene	1.078	1.028	4.6	110	0.00
18	T	tert-Butanol	2.590	2.267	12.5	104	0.01
19	T	Methylene Chloride	1.226	1.115	9.1	109	0.00
20	T	Allyl Chloride	1.450	1.487	-2.6	110	0.00
21	T	Trichlorotrifluoroethane	0.684	0.493	27.9	102	0.00
22	T	Carbon Disulfide	4.601	4.036	12.3	109	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.509	10.2	106	0.00
24	T	1,1-Dichloroethane	1.718	1.635	4.8	111	0.00
25	T	Methyl tert-Butyl Ether	2.911	2.356	19.1	103	0.00
26	T	Vinyl Acetate	0.246	0.221	10.2	106	0.00
27	T	2-Butanone	0.761	0.671	11.8	101	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.432	8.3	108	0.00
29	T	Diisopropyl Ether	0.824	0.686	16.7	102	0.00
30	T	Ethyl Acetate	0.373	0.324	13.1	100	0.00
31	T	n-Hexane	1.550	1.158	25.3	99	0.00
32	T	Chloroform	1.712	1.613	5.8	110	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.732	2.9	112	0.00
34	T	Tetrahydrofuran	0.741	0.641	13.5	99	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.033	14.8	102	0.00
36	T	1,2-Dichloroethane	1.531	1.358	11.3	104	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	110	0.00
38	T	1,1,1-Trichloroethane	0.377	0.347	8.0	103	0.00
39	T	Isopropyl Acetate	0.152	0.146	3.9	102	0.00
40	T	1-Butanol	0.180	0.194	-7.8	99	0.00
41	T	Benzene	0.972	0.881	9.4	104	0.00
42	T	Carbon Tetrachloride	0.318	0.295	7.2	103	0.00
43	T	Cyclohexane	0.355	0.308	13.2	103	0.00
44	T	tert-Amyl Methyl Ether	0.666	0.620	6.9	102	0.00
45	T	1,2-Dichloropropane	0.246	0.228	7.3	102	0.00
46	T	Bromodichloromethane	0.332	0.328	1.2	106	0.00
47	T	Trichloroethene	0.230	0.214	7.0	103	0.00
48	T	1,4-Dioxane	0.187	0.184	1.6	101	0.00
49	T	Isooctane	0.890	0.786	11.7	99	0.00
50	T	Methyl Methacrylate	0.095	0.096	-1.1	104	0.00
51	T	n-Heptane	0.233	0.209	10.3	102	0.00

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\28\
Data File : 12280601.D
Acq On : 28 Dec 2006 7:42
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:24:23 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.397	3.2	103	0.00
53	T	4-Methyl-2-pentanone	0.218	0.209	4.1	102	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.370	1.9	103	0.00
55	T	1,1,2-Trichloroethane	0.243	0.231	4.9	104	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	109	0.00
57	S	Toluene-d8 (SS2)	1.986	1.975	0.6	109	0.00
58	T	Toluene	1.860	1.745	6.2	103	0.00
59	T	2-Hexanone	0.996	0.949	4.7	101	0.00
60	T	Dibromochloromethane	0.478	0.473	1.0	104	0.00
61	T	1,2-Dibromoethane	0.513	0.495	3.5	102	0.00
62	T	Butyl Acetate	1.079	1.064	1.4	103	0.00
63	T	n-Octane	0.372	0.361	3.0	103	0.00
64	T	Tetrachloroethene	0.429	0.404	5.8	103	0.00
65	T	Chlorobenzene	1.226	1.165	5.0	104	0.00
66	T	Ethylbenzene	2.158	2.111	2.2	104	0.00
67	T	m- & p-Xylene	1.399	1.364	2.5	104	0.00
68	T	Bromoform	0.306	0.304	0.7	102	0.00
69	T	Styrene	1.288	1.285	0.2	103	0.00
70	T	o-Xylene	1.517	1.475	2.8	103	0.00
71	T	n-Nonane	0.874	0.858	1.8	102	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.701	3.3	101	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.686	-1.2	109	0.00
74	T	Cumene	1.959	1.919	2.0	103	0.00
75	T	alpha-Pinene	1.019	0.998	2.1	102	0.00
76	T	n-Propylbenzene	2.587	2.567	0.8	102	0.00
77	T	3-Ethyltoluene	2.119	2.096	1.1	101	0.00
78	T	4-Ethyltoluene	2.004	1.964	2.0	104	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.701	2.7	102	0.00
80	T	alpha-Methylstyrene	0.910	0.944	-3.7	101	0.00
81	T	2-Ethyltoluene	2.157	2.112	2.1	102	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.695	3.0	101	0.00
83	T	n-Decane	0.948	0.935	1.4	101	0.00
84	T	Benzyl Chloride	1.649	1.652	-0.2	101	0.00
85	T	1,3-Dichlorobenzene	0.947	0.909	4.0	102	0.00
86	T	1,4-Dichlorobenzene	0.924	0.889	3.8	102	0.00
87	T	sec-Butylbenzene	2.296	2.257	1.7	101	0.00
88	T	p-Isopropyltoluene	1.842	1.842	0.0	102	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.645	1.1	101	0.00
90	T	1,2-Dichlorobenzene	0.891	0.854	4.2	102	0.00
91	T	d-Limonene	0.691	0.708	-2.5	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.311	-7.6	100	0.00
93	T	n-Undecane	0.800	0.799	0.1	98	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.176	-1.7	102	0.00
95	T	Naphthalene	1.896	2.094	-10.4	103	0.00
96	T	n-Dodecane	0.539	0.563	-4.5	109	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.291	-1.4	103	0.00

LM 12/28/06

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\28\
Data File : 12280605.D
Acq On : 28 Dec 2006 11:02
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 18:12:53 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

all ok for targets

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	110	-0.02
2	T	Propene	1.169	1.312	-12.2	101	0.01
3	T	Dichlorodifluoromethane	2.358	2.508	-6.4	105	0.01
4	T	Chloromethane	1.843	1.882	-2.1	105	0.00
5	T	Freon 114	0.648	0.806	-24.4	115	0.00
6	T	Vinyl Chloride	1.231	1.381	-12.2	101	0.00
7	T	1,3-Butadiene	1.005	1.065	-6.0	102	0.00
8	T	Bromomethane	0.998	1.071	-7.3	108	0.00
9	T	Chloroethane	0.905	0.892	1.4	96	0.00
10	T	Ethanol	0.732	0.630	13.9	111	-0.03
11	T	Acetonitrile	2.094	2.021	3.5	101	-0.01
12	T	Acrolein	0.692	0.676	2.3	109	0.00
13	T	Acetone	1.080	1.303	-20.6	120	-0.01
14	T	Trichlorofluoromethane	1.604	1.792	-11.7	118	0.00
15	T	Isopropanol	2.831	3.157	-11.5	109	-0.03
16	T	Acrylonitrile	1.459	1.379	5.5	105	-0.02
17	T	1,1-Dichloroethene	1.078	1.074	0.4	108	0.00
18	T	tert-Butanol	2.590	2.952	-14.0	108	-0.01
19	T	Methylene Chloride	1.226	1.273	-3.8	106	-0.01
20	T	Allyl Chloride	1.450	1.317	9.2	111	-0.01
21	T	Trichlorotrifluoroethane	0.684	0.725	-6.0	99	0.00
22	T	Carbon Disulfide	4.601	4.726	-2.7	104	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.593	5.2	100	-0.02
24	T	1,1-Dichloroethane	1.718	1.847	-7.5	113	-0.02
25	T	Methyl tert-Butyl Ether	2.911	3.055	-4.9	100	0.00
26	T	Vinyl Acetate	0.246	0.262	-6.5	109	-0.01
27	T	2-Butanone	0.761	0.780	-2.5	112	-0.02
28	T	cis-1,2-Dichloroethene	1.562	1.523	2.5	105	-0.03
29	T	Diisopropyl Ether	0.824	0.831	-0.8	100	-0.02
30	T	Ethyl Acetate	0.373	0.376	-0.8	102	0.00
31	T	n-Hexane	1.550	1.637	-5.6	98	-0.01
32	T	Chloroform	1.712	1.791	-4.6	102	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.809	-1.5	105	-0.02
34	T	Tetrahydrofuran	0.741	0.721	2.7	100	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.219	-0.5	101	-0.02
36	T	1,2-Dichloroethane	1.531	1.482	3.2	100	-0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	107	-0.01
38	T	1,1,1-Trichloroethane	0.377	0.366	2.9	99	-0.02
39	T	Isopropyl Acetate	0.152	0.145	4.6	104	-0.02
40	T	1-Butanol	0.180	0.164	8.9	117	0.01
41	T	Benzene	0.972	0.972	0.0	101	-0.01
42	T	Carbon Tetrachloride	0.318	0.301	5.3	99	-0.02
43	T	Cyclohexane	0.355	0.364	-2.5	98	-0.02
44	T	tert-Amyl Methyl Ether	0.666	0.664	0.3	102	-0.01
45	T	1,2-Dichloropropane	0.246	0.240	2.4	104	-0.02
46	T	Bromodichloromethane	0.332	0.310	6.6	100	-0.02
47	T	Trichloroethene	0.230	0.227	1.3	103	-0.01
48	T	1,4-Dioxane	0.187	0.187	0.0	111	0.00
49	T	Isooctane	0.890	0.900	-1.1	101	-0.01
50	T	Methyl Methacrylate	0.095	0.085	10.5	103	0.00
51	T	n-Heptane	0.233	0.236	-1.3	103	-0.01

LM 12/28/06

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\28\
Data File : 12280605.D
Acq On : 28 Dec 2006 11:02
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 18:12:53 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

all ok for targets

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	0.410	0.403	1.7	106	0.00
53	T	4-Methyl-2-pentanone	0.218	0.215	1.4	104	-0.01
54	T	trans-1,3-Dichloropropene	0.377	0.351	6.9	101	-0.01
55	T	1,1,2-Trichloroethane	0.243	0.235	3.3	101	-0.01
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	107	0.00
57	S	Toluene-d8 (SS2)	1.986	1.964	1.1	106	-0.01
58	T	Toluene	1.860	1.860	0.0	105	-0.01
59	T	2-Hexanone	0.996	0.953	4.3	101	0.00
60	T	Dibromochloromethane	0.478	0.453	5.2	103	0.00
61	T	1,2-Dibromoethane	0.513	0.491	4.3	105	-0.01
62	T	Butyl Acetate	1.079	0.996	7.7	100	0.00
63	T	n-Octane	0.372	0.358	3.8	104	-0.01
64	T	Tetrachloroethene	0.429	0.412	4.0	102	0.00
65	T	Chlorobenzene	1.226	1.223	0.2	103	0.00
66	T	Ethylbenzene	2.158	2.120	1.8	104	-0.01
67	T	m- & p-Xylene	1.399	1.368	2.2	103	-0.01
68	T	Bromoform	0.306	0.277	9.5	98	-0.01
69	T	Styrene	1.288	1.173	8.9	99	0.00
70	T	o-Xylene	1.517	1.513	0.3	104	-0.01
71	T	n-Nonane	0.874	0.832	4.8	101	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.710	2.1	105	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.706	-4.1	111	0.00
74	T	Cumene	1.959	1.930	1.5	105	0.00
75	T	alpha-Pinene	1.019	0.954	6.4	102	0.00
76	T	n-Propylbenzene	2.587	2.498	3.4	104	0.00
77	T	3-Ethyltoluene	2.119	2.097	1.0	108	0.00
78	T	4-Ethyltoluene	2.004	1.938	3.3	100	-0.01
79	T	1,3,5-Trimethylbenzene	1.749	1.745	0.2	105	0.00
80	T	alpha-Methylstyrene	0.910	0.781	14.2	100	0.00
81	T	2-Ethyltoluene	2.157	2.103	2.5	104	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.718	1.7	104	-0.01
83	T	n-Decane	0.948	0.916	3.4	101	0.00
84	T	Benzyl Chloride	1.649	1.551	5.9	104	0.00
85	T	1,3-Dichlorobenzene	0.947	0.963	-1.7	108	0.00
86	T	1,4-Dichlorobenzene	0.924	0.926	-0.2	104	0.00
87	T	sec-Butylbenzene	2.296	2.241	2.4	103	0.00
88	T	p-Isopropyltoluene	1.842	1.808	1.8	105	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.614	3.0	104	0.00
90	T	1,2-Dichlorobenzene	0.891	0.891	0.0	103	0.00
91	T	d-Limonene	0.691	0.599	13.3	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.255	11.8	111	0.00
93	T	n-Undecane	0.800	0.779	2.6	106	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.183	-5.8	119	0.00
95	T	Naphthalene	1.896	1.859	2.0	117	0.00
96	T	n-Dodecane	0.539	0.640	-18.7	121	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.295	-2.8	111	0.00

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\28\
Data File : 12280616.D
Acq On : 28 Dec 2006 19:25
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S1512150607 (closing CCV)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 08:38:18 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	121	-0.03
2	T	Propene	1.169	0.926	20.8	119	-0.09
3	T	Dichlorodifluoromethane	2.358	2.370	-0.5	131	-0.05
4	T	Chloromethane	1.843	1.714	7.0	115	-0.06
5	T	Freon 114	0.648	0.628	3.1	128	-0.05
6	T	Vinyl Chloride	1.231	1.124	8.7	129	-0.06
7	T	1,3-Butadiene	1.005	0.885	11.9	116	-0.06
8	T	Bromomethane	0.998	0.968	3.0	130	-0.05
9	T	Chloroethane	0.905	0.833	8.0	122	-0.05
10	T	Ethanol	0.732	0.765	-4.5	114	-0.04
11	T	Acetonitrile	2.094	1.977	5.6	114	-0.04
12	T	Acrolein	0.692	0.662	4.3	116	-0.04
13	T	Acetone	1.080	0.881	18.4	117	-0.04
14	T	Trichlorofluoromethane	1.604	1.546	3.6	120	-0.05
15	T	Isopropanol	2.831	2.804	1.0	114	-0.04
16	T	Acrylonitrile	1.459	1.401	4.0	114	-0.04
17	T	1,1-Dichloroethene	1.078	1.029	4.5	116	-0.04
18	T	tert-Butanol	2.590	2.362	8.8	115	-0.03
19	T	Methylene Chloride	1.226	1.123	8.4	116	-0.04
20	T	Allyl Chloride	1.450	1.466	-1.1	115	-0.04
21	T	Trichlorotrifluoroethane	0.684	0.615	10.1	134	-0.04
22	T	Carbon Disulfide	4.601	4.120	10.5	117	-0.04
23	T	trans-1,2-Dichloroethene	1.681	1.552	7.7	115	-0.04
24	T	1,1-Dichloroethane	1.718	1.622	5.6	116	-0.03
25	T	Methyl tert-Butyl Ether	2.911	2.672	8.2	124	-0.03
26	T	Vinyl Acetate	0.246	0.248	-0.8	126	-0.03
27	T	2-Butanone	0.761	0.739	2.9	117	-0.03
28	T	cis-1,2-Dichloroethene	1.562	1.439	7.9	114	-0.03
29	T	Diisopropyl Ether	0.824	0.764	7.3	120	-0.03
30	T	Ethyl Acetate	0.373	0.354	5.1	116	-0.03
31	T	n-Hexane	1.550	1.380	11.0	125	-0.03
32	T	Chloroform	1.712	1.642	4.1	118	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.754	1.6	120	-0.02
34	T	Tetrahydrofuran	0.741	0.711	4.0	116	-0.02
35	T	Ethyl tert-Butyl Ether	1.213	1.140	6.0	119	-0.03
36	T	1,2-Dichloroethane	1.531	1.397	8.8	113	-0.03
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	124	-0.02
38	T	1,1,1-Trichloroethane	0.377	0.352	6.6	117	-0.03
39	T	Isopropyl Acetate	0.152	0.150	1.3	117	-0.03
40	T	1-Butanol	0.180	0.191	-6.1	109	-0.02
41	T	Benzene	0.972	0.892	8.2	118	-0.02
42	T	Carbon Tetrachloride	0.318	0.303	4.7	118	-0.02
43	T	Cyclohexane	0.355	0.326	8.2	122	-0.02
44	T	tert-Amyl Methyl Ether	0.666	0.634	4.8	117	-0.02
45	T	1,2-Dichloropropane	0.246	0.230	6.5	115	-0.02
46	T	Bromodichloromethane	0.332	0.314	5.4	113	-0.02
47	T	Trichloroethene	0.230	0.218	5.2	118	-0.02
48	T	1,4-Dioxane	0.187	0.183	2.1	113	-0.02
49	T	Isooctane	0.890	0.831	6.6	118	-0.02
50	T	Methyl Methacrylate	0.095	0.096	-1.1	115	-0.02
51	T	n-Heptane	0.233	0.219	6.0	119	-0.02

Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\28\
Data File : 12280616.D
Acq On : 28 Dec 2006 19:25
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S1512150607 (closing CCV)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 08:38:18 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.394	3.9	115	-0.01
53	T	4-Methyl-2-pentanone	0.218	0.208	4.6	113	-0.02
54	T	trans-1,3-Dichloropropene	0.377	0.364	3.4	114	-0.02
55	T	1,1,2-Trichloroethane	0.243	0.225	7.4	113	-0.01
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	120	0.00
57	S	Toluene-d8 (SS2)	1.986	2.004	-0.9	122	-0.01
58	T	Toluene	1.860	1.758	5.5	114	-0.01
59	T	2-Hexanone	0.996	0.942	5.4	110	-0.01
60	T	Dibromochloromethane	0.478	0.463	3.1	113	-0.01
61	T	1,2-Dibromoethane	0.513	0.492	4.1	112	-0.01
62	T	Butyl Acetate	1.079	1.060	1.8	113	0.00
63	T	n-Octane	0.372	0.362	2.7	114	-0.01
64	T	Tetrachloroethene	0.429	0.402	6.3	113	-0.01
65	T	Chlorobenzene	1.226	1.160	5.4	114	0.00
66	T	Ethylbenzene	2.158	2.063	4.4	112	-0.01
67	T	m- & p-Xylene	1.399	1.337	4.4	112	0.00
68	T	Bromoform	0.306	0.299	2.3	111	0.00
69	T	Styrene	1.288	1.256	2.5	111	0.00
70	T	o-Xylene	1.517	1.445	4.7	111	0.00
71	T	n-Nonane	0.874	0.851	2.6	111	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.693	4.4	110	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.678	0.0	119	0.00
74	T	Cumene	1.959	1.880	4.0	111	0.00
75	T	alpha-Pinene	1.019	0.997	2.2	112	0.00
76	T	n-Propylbenzene	2.587	2.496	3.5	109	0.00
77	T	3-Ethyltoluene	2.119	2.032	4.1	108	0.00
78	T	4-Ethyltoluene	2.004	1.905	4.9	111	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.649	5.7	109	0.00
80	T	alpha-Methylstyrene	0.910	0.926	-1.8	109	0.00
81	T	2-Ethyltoluene	2.157	2.054	4.8	109	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.630	6.7	107	0.00
83	T	n-Decane	0.948	0.902	4.9	107	0.00
84	T	Benzyl Chloride	1.649	1.606	2.6	108	0.00
85	T	1,3-Dichlorobenzene	0.947	0.887	6.3	109	0.00
86	T	1,4-Dichlorobenzene	0.924	0.867	6.2	109	0.00
87	T	sec-Butylbenzene	2.296	2.197	4.3	109	0.00
88	T	p-Isopropyltoluene	1.842	1.787	3.0	109	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.585	4.7	107	0.00
90	T	1,2-Dichlorobenzene	0.891	0.826	7.3	109	0.00
91	T	d-Limonene	0.691	0.684	1.0	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.303	-4.8	108	0.00
93	T	n-Undecane	0.800	0.784	2.0	106	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.169	2.3	108	0.00
95	T	Naphthalene	1.896	1.982	-4.5	107	0.00
96	T	n-Dodecane	0.539	0.562	-4.3	119	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.280	2.4	109	0.00

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

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603502

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: 12280601.D
Date Analyzed: 12/28/06
Time Analyzed: 07:42

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	381102	9.07	1611386	11.00	869251	15.81
	Upper Limit	533543	9.40	2255940	11.33	1216951	16.14
	Lower Limit	228661	8.74	966832	10.67	521551	15.48
	Client Sample ID						
01	Method Blank	370346	9.04	1777910	10.98	915145	15.81
02	Lab Control Sample	363864	9.06	1577510	11.00	857877	15.82
03	Duplicate Lab Control Sample	356443	9.07	1594308	11.00	863363	15.82
04	WDI-VW-49-D-12-19-06 (Dilution)	370751	9.04	1715830	10.98	914440	15.81
05	WDI-VW-55-S-12-19-06	359011	9.05	1616749	10.99	928982	15.82
06	WDI-VW-55-S-12-19-06 (Lab Duplicate)	375198	9.05	1690370	10.99	947019	15.82
07	WDI-VW-55-D-12-19-06	396226	9.06	1890311	11.00	1012949	15.81
08	WDI-VW-41-S-12-19-06	392369	9.04	1775868	10.98	967401	15.81
09	WDI-VW-41-D-12-19-06	392018	9.04	1706165	10.98	935649	15.81
10	WDI-VW-37-S-12-20-06 (Dilution)	416205	9.04	1929228	10.98	1011010	15.81
11	WDI-VW-37-S-12-20-06	396345	9.04	1779043	10.98	958522	15.81
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: RG Date: 1/8/07

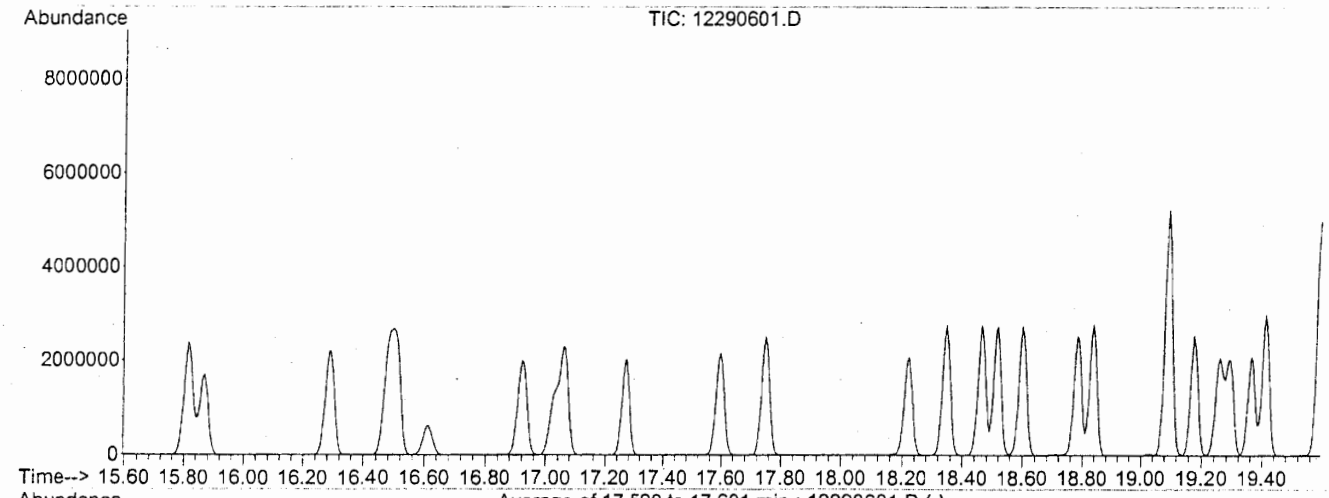
BFB

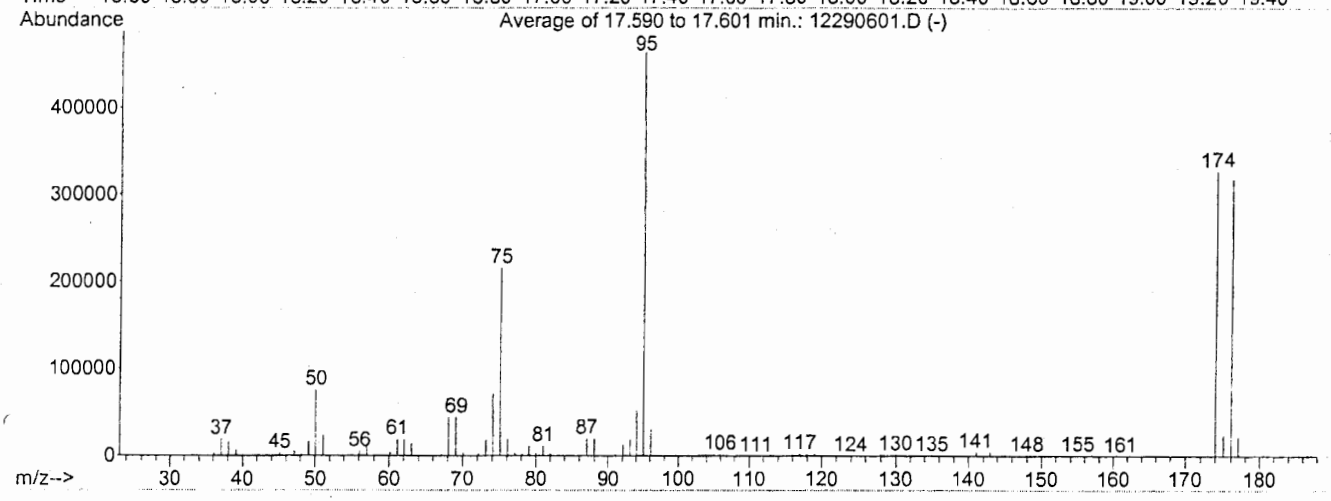
Data Path : J:\MS08\Data\2006_012\29\
Data File : 12290601.D
Acq On : 29 Dec 2006 10:00
Operator : AB
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2488

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.3	75653	PASS
75	95	30	66	46.4	215722	PASS
95	95	100	100	100.0	464810	PASS
96	95	5	9	6.5	30418	PASS
173	174	0.00	2	0.3	864	PASS
174	95	50	120	70.4	327402	PASS
175	174	4	9	7.2	23466	PASS
176	174	93	101	96.9	317376	PASS
177	176	5	9	6.6	21053	PASS

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\29\
Data File : 12290601.D
Acq On : 29 Dec 2006 10:00
Operator : AB
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Quant Time: Dec 29 10:26:16 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	129	0.00
2	T	Propene	1.169	0.953	18.5	131	0.00
3	T	Dichlorodifluoromethane	2.358	2.124	9.9	126	0.00
4	T	Chloromethane	1.843	1.755	4.8	126	0.00
5	T	Freon 114	0.648	0.538	17.0	118	0.00
6	T	Vinyl Chloride	1.231	0.928	24.6	114	0.00
7	T	1,3-Butadiene	1.005	0.818	18.6	115	0.00
8	T	Bromomethane	0.998	0.948	5.0	136	0.00
9	T	Chloroethane	0.905	0.811	10.4	127	0.00
10	T	Ethanol	0.732	0.793	-8.3	127	0.00
11	T	Acetonitrile	2.094	1.980	5.4	123	0.00
12	T	Acrolein	0.692	0.668	3.5	125	0.00
13	T	Acetone	1.080	0.905	16.2	129	0.00
14	T	Trichlorofluoromethane	1.604	1.514	5.6	126	0.00
15	T	Isopropanol	2.831	2.715	4.1	118	0.00
16	T	Acrylonitrile	1.459	1.438	1.4	125	0.00
17	T	1,1-Dichloroethene	1.078	1.062	1.5	129	0.00
18	T	tert-Butanol	2.590	2.286	11.7	119	0.00
19	T	Methylene Chloride	1.226	1.144	6.7	126	0.00
20	T	Allyl Chloride	1.450	1.522	-5.0	127	0.00
21	T	Trichlorotrifluoroethane	0.684	0.559	18.3	130	0.00
22	T	Carbon Disulfide	4.601	4.111	10.6	125	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.634	2.8	130	0.00
24	T	1,1-Dichloroethane	1.718	1.621	5.6	124	0.00
25	T	Methyl tert-Butyl Ether	2.911	2.472	15.1	122	0.00
26	T	Vinyl Acetate	0.246	0.224	8.9	121	0.00
27	T	2-Butanone	0.761	0.703	7.6	119	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.483	5.1	126	0.00
29	T	Diisopropyl Ether	0.824	0.718	12.9	121	0.00
30	T	Ethyl Acetate	0.373	0.333	10.7	117	0.00
31	T	n-Hexane	1.550	1.211	21.9	117	0.00
32	T	Chloroform	1.712	1.503	12.2	116	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.662	6.8	121	0.00
34	T	Tetrahydrofuran	0.741	0.676	8.8	118	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.064	12.3	119	0.00
36	T	1,2-Dichloroethane	1.531	1.399	8.6	121	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	126	0.00
38	T	1,1,1-Trichloroethane	0.377	0.360	4.5	122	0.00
39	T	Isopropyl Acetate	0.152	0.151	0.7	119	0.00
40	T	1-Butanol	0.180	0.198	-10.0	115	0.00
41	T	Benzene	0.972	0.913	6.1	122	0.00
42	T	Carbon Tetrachloride	0.318	0.309	2.8	123	0.00
43	T	Cyclohexane	0.355	0.322	9.3	122	0.00
44	T	tert-Amyl Methyl Ether	0.666	0.636	4.5	119	0.00
45	T	1,2-Dichloropropane	0.246	0.235	4.5	120	0.00
46	T	Bromodichloromethane	0.332	0.329	0.9	120	0.00
47	T	Trichloroethene	0.230	0.224	2.6	123	0.00
48	T	1,4-Dioxane	0.187	0.189	-1.1	118	0.00
49	T	Isooctane	0.890	0.815	8.4	117	0.00
50	T	Methyl Methacrylate	0.095	0.099	-4.2	121	0.00
51	T	n-Heptane	0.233	0.216	7.3	119	0.00

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\29\
Data File : 12290601.D
Acq On : 29 Dec 2006 10:00
Operator : AB
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 10:26:16 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.405	1.2	120	0.00
53	T	4-Methyl-2-pentanone	0.218	0.211	3.2	117	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.374	0.8	119	-0.01
55	T	1,1,2-Trichloroethane	0.243	0.237	2.5	121	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	125	0.00
57	S	Toluene-d8 (SS2)	1.986	1.963	1.2	124	0.00
58	T	Toluene	1.860	1.803	3.1	121	0.00
59	T	2-Hexanone	0.996	0.954	4.2	115	0.00
60	T	Dibromochloromethane	0.478	0.481	-0.6	121	0.00
61	T	1,2-Dibromoethane	0.513	0.506	1.4	119	0.00
62	T	Butyl Acetate	1.079	1.057	2.0	116	0.00
63	T	n-Octane	0.372	0.369	0.8	120	0.00
64	T	Tetrachloroethene	0.429	0.416	3.0	122	-0.01
65	T	Chlorobenzene	1.226	1.188	3.1	121	0.00
66	T	Ethylbenzene	2.158	2.134	1.1	120	0.00
67	T	m- & p-Xylene	1.399	1.378	1.5	119	0.00
68	T	Bromoform	0.306	0.316	-3.3	121	0.00
69	T	Styrene	1.288	1.312	-1.9	120	0.00
70	T	o-Xylene	1.517	1.500	1.1	119	0.00
71	T	n-Nonane	0.874	0.863	1.3	117	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.719	0.8	118	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.696	-2.7	126	0.00
74	T	Cumene	1.959	1.949	0.5	119	0.00
75	T	alpha-Pinene	1.019	1.016	0.3	118	0.00
76	T	n-Propylbenzene	2.587	2.603	-0.6	118	0.00
77	T	3-Ethyltoluene	2.119	2.142	-1.1	118	0.00
78	T	4-Ethyltoluene	2.004	1.992	0.6	120	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.748	0.1	119	0.00
80	T	alpha-Methylstyrene	0.910	0.965	-6.0	118	0.00
81	T	2-Ethyltoluene	2.157	2.162	-0.2	119	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.727	1.1	118	0.00
83	T	n-Decane	0.948	0.953	-0.5	117	0.00
84	T	Benzyl Chloride	1.649	1.676	-1.6	117	0.00
85	T	1,3-Dichlorobenzene	0.947	0.948	-0.1	121	0.00
86	T	1,4-Dichlorobenzene	0.924	0.914	1.1	119	0.00
87	T	sec-Butylbenzene	2.296	2.310	-0.6	118	0.00
88	T	p-Isopropyltoluene	1.842	1.871	-1.6	118	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.682	-1.1	118	0.00
90	T	1,2-Dichlorobenzene	0.891	0.876	1.7	119	0.00
91	T	d-Limonene	0.691	0.721	-4.3	115	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.327	-13.1	120	0.00
93	T	n-Undecane	0.800	0.854	-6.7	119	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.194	-12.1	128	0.00
95	T	Naphthalene	1.896	2.281	-20.3	128	0.00
96	T	n-Dodecane	0.539	0.627	-16.3	138	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.313	-9.1	126	0.00

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

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\29\
Data File : 12290605.D
Acq On : 29 Dec 2006 12:56
Operator : AB
Sample : 1ng TO-15 CRQL check STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 13:26:30 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	115	-0.02
2	T	Propene	1.169	1.235	-5.6	100	0.02
3	T	Dichlorodifluoromethane	2.358	2.464	-4.5	108	0.02
4	T	Chloromethane	1.843	1.791	2.8	104	0.01
5	T	Freon 114	0.648	0.867	-33.8#	130	0.02 NTC
6	T	Vinyl Chloride	1.231	1.262	-2.5	96	0.01
7	T	1,3-Butadiene	1.005	1.030	-2.5	103	0.00
8	T	Bromomethane	0.998	1.043	-4.5	110	0.00
9	T	Chloroethane	0.905	0.872	3.6	98	0.00
10	T	Ethanol	0.732	0.695	5.1	128	-0.03
11	T	Acetonitrile	2.094	2.006	4.2	105	0.00
12	T	Acrolein	0.692	0.650	6.1	109	0.00
13	T	Acetone	1.080	1.224	-13.3	118	0.00
14	T	Trichlorofluoromethane	1.604	1.710	-6.6	118	0.00
15	T	Isopropanol	2.831	3.013	-6.4	109	-0.02
16	T	Acrylonitrile	1.459	1.352	7.3	108	0.00
17	T	1,1-Dichloroethene	1.078	1.050	2.6	110	0.00
18	T	tert-Butanol	2.590	2.884	-11.4	110	0.00
19	T	Methylene Chloride	1.226	1.262	-2.9	110	0.00
20	T	Allyl Chloride	1.450	1.274	12.1	112	0.00
21	T	Trichlorotrifluoroethane	0.684	0.635	7.2	91	0.00
22	T	Carbon Disulfide	4.601	4.556	1.0	105	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.528	9.1	100	-0.02
24	T	1,1-Dichloroethane	1.718	1.895	-10.3	122	-0.02
25	T	Methyl tert-Butyl Ether	2.911	2.863	1.6	98	0.00
26	T	Vinyl Acetate	0.246	0.228	7.3	99	-0.01
27	T	2-Butanone	0.761	0.730	4.1	110	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.384	11.4	100	-0.02
29	T	Diisopropyl Ether	0.824	0.790	4.1	100	0.00
30	T	Ethyl Acetate	0.373	0.347	7.0	98	-0.01
31	T	n-Hexane	1.550	1.493	3.7	93	0.00
32	T	Chloroform	1.712	1.742	-1.8	104	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.736	2.6	106	-0.01
34	T	Tetrahydrofuran	0.741	0.680	8.2	99	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.156	4.7	101	0.00
36	T	1,2-Dichloroethane	1.531	1.410	7.9	100	-0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	109	-0.01
38	T	1,1,1-Trichloroethane	0.377	0.359	4.8	99	-0.02
39	T	Isopropyl Acetate	0.152	0.146	3.9	107	0.00
40	T	1-Butanol	0.180	0.170	5.6	124	0.01
41	T	Benzene	0.972	0.966	0.6	102	0.00
42	T	Carbon Tetrachloride	0.318	0.291	8.5	98	-0.02
43	T	Cyclohexane	0.355	0.348	2.0	96	-0.01
44	T	tert-Amyl Methyl Ether	0.666	0.639	4.1	101	0.00
45	T	1,2-Dichloropropane	0.246	0.231	6.1	103	-0.01
46	T	Bromodichloromethane	0.332	0.310	6.6	103	-0.01
47	T	Trichloroethene	0.230	0.226	1.7	105	0.00
48	T	1,4-Dioxane	0.187	0.183	2.1	110	0.00
49	T	Isooctane	0.890	0.860	3.4	99	0.00
50	T	Methyl Methacrylate	0.095	0.090	5.3	112	0.00
51	T	n-Heptane	0.233	0.223	4.3	99	0.00

Michelle

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\29\
Data File : 12290605.D
Acq On : 29 Dec 2006 12:56
Operator : AB
Sample : 1ng TO-15 CRQL check STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 13:26:30 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.395	3.7	106	0.00
53	T	4-Methyl-2-pentanone	0.218	0.213	2.3	105	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.351	6.9	103	-0.01
55	T	1,1,2-Trichloroethane	0.243	0.238	2.1	104	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	110	0.00
57	S	Toluene-d8 (SS2)	1.986	2.004	-0.9	111	0.00
58	T	Toluene	1.860	1.860	0.0	107	-0.01
59	T	2-Hexanone	0.996	0.959	3.7	104	0.00
60	T	Dibromochloromethane	0.478	0.456	4.6	106	-0.01
61	T	1,2-Dibromoethane	0.513	0.483	5.8	105	0.00
62	T	Butyl Acetate	1.079	0.979	9.3	101	0.00
63	T	n-Octane	0.372	0.363	2.4	107	0.00
64	T	Tetrachloroethene	0.429	0.416	3.0	105	-0.01
65	T	Chlorobenzene	1.226	1.210	1.3	104	-0.01
66	T	Ethylbenzene	2.158	2.122	1.7	106	-0.01
67	T	m- & p-Xylene	1.399	1.391	0.6	107	-0.02
68	T	Bromoform	0.306	0.284	7.2	102	0.00
69	T	Styrene	1.288	1.219	5.4	105	0.00
70	T	o-Xylene	1.517	1.526	-0.6	107	-0.01
71	T	n-Nonane	0.874	0.832	4.8	104	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.702	3.2	106	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.699	-3.1	112	0.00
74	T	Cumene	1.959	1.985	-1.3	110	0.00
75	T	alpha-Pinene	1.019	0.958	6.0	104	0.00
76	T	n-Propylbenzene	2.587	2.513	2.9	106	0.00
77	T	3-Ethyltoluene	2.119	2.112	0.3	111	-0.01
78	T	4-Ethyltoluene	2.004	1.986	0.9	105	-0.01
79	T	1,3,5-Trimethylbenzene	1.749	1.774	-1.4	109	0.00
80	T	alpha-Methylstyrene	0.910	0.814	10.5	106	0.00
81	T	2-Ethyltoluene	2.157	2.091	3.1	105	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.781	-1.9	110	-0.01
83	T	n-Decane	0.948	0.906	4.4	102	0.00
84	T	Benzyl Chloride	1.649	1.592	3.5	108	0.00
85	T	1,3-Dichlorobenzene	0.947	0.959	-1.3	110	0.00
86	T	1,4-Dichlorobenzene	0.924	0.937	-1.4	107	0.00
87	T	sec-Butylbenzene	2.296	2.249	2.0	105	0.00
88	T	p-Isopropyltoluene	1.842	1.820	1.2	108	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.626	2.3	107	0.00
90	T	1,2-Dichlorobenzene	0.891	0.886	0.6	104	0.00
91	T	d-Limonene	0.691	0.620	10.3	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.242	16.3	108	0.00
93	T	n-Undecane	0.800	0.771	3.6	107	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.179	-3.5	118	0.00
95	T	Naphthalene	1.896	1.814	4.3	116	0.00
96	T	n-Dodecane	0.539	0.628	-16.5	121	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.275	4.2	106	0.00

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

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12/29/06

Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\29\
Data File : 12290617.D
Acq On : 29 Dec 2006 21:19
Operator : AB
Sample : 25ng TO-15 CCV std (Closing)
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 05 09:43:17 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	111	0.00
2	T	Propene	1.169	0.813	30.5#	96	0.00
3	T	Dichlorodifluoromethane	2.358	1.982	15.9	100	0.00
4	T	Chloromethane	1.843	1.603	13.0	98	0.00
5	T	Freon 114	0.648	0.552	14.8	103	0.00
6	T	Vinyl Chloride	1.231	0.924	24.9	97	0.00
7	T	1,3-Butadiene	1.005	0.819	18.5	98	0.00
8	T	Bromomethane	0.998	0.816	18.2	100	0.00
9	T	Chloroethane	0.905	0.748	17.3	100	0.00
10	T	Ethanol	0.732	0.746	-1.9	102	0.00
11	T	Acetonitrile	2.094	1.842	12.0	98	0.00
12	T	Acrolein	0.692	0.621	10.3	99	0.00
13	T	Acetone	1.080	0.845	21.8	103	0.00
14	T	Trichlorofluoromethane	1.604	1.446	9.9	103	0.00
15	T	Isopropanol	2.831	2.658	6.1	99	0.00
16	T	Acrylonitrile	1.459	1.356	7.1	101	0.00
17	T	1,1-Dichloroethene	1.078	1.000	7.2	103	0.00
18	T	tert-Butanol	2.590	2.301	11.2	102	0.00
19	T	Methylene Chloride	1.226	1.088	11.3	102	0.00
20	T	Allyl Chloride	1.450	1.406	3.0	100	0.00
21	T	Trichlorotrifluoroethane	0.684	0.453	33.8#	90	0.00
22	T	Carbon Disulfide	4.601	3.883	15.6	101	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.420	15.5	96	0.00
24	T	1,1-Dichloroethane	1.718	1.572	8.5	103	0.00
25	T	Methyl tert-Butyl Ether	2.911	2.300	21.0	97	0.00
26	T	Vinyl Acetate	0.246	0.219	11.0	102	0.00
27	T	2-Butanone	0.761	0.700	8.0	102	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.391	10.9	101	0.00
29	T	Diisopropyl Ether	0.824	0.678	17.7	97	0.00
30	T	Ethyl Acetate	0.373	0.337	9.7	101	0.00
31	T	n-Hexane	1.550	1.133	26.9	94	0.00
32	T	Chloroform	1.712	1.574	8.1	104	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.703	4.5	106	0.00
34	T	Tetrahydrofuran	0.741	0.661	10.8	99	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.027	15.3	98	0.00
36	T	1,2-Dichloroethane	1.531	1.309	14.5	97	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	108	0.00
38	T	1,1,1-Trichloroethane	0.377	0.333	11.7	97	0.00
39	T	Isopropyl Acetate	0.152	0.146	3.9	99	0.00
40	T	1-Butanol	0.180	0.196	-8.9	98	0.00
41	T	Benzene	0.972	0.861	11.4	99	0.00
42	T	Carbon Tetrachloride	0.318	0.282	11.3	96	0.00
43	T	Cyclohexane	0.355	0.296	16.6	97	0.00
44	T	tert-Amyl Methyl Ether	0.666	0.618	7.2	100	0.00
45	T	1,2-Dichloropropane	0.246	0.226	8.1	99	0.00
46	T	Bromodichloromethane	0.332	0.316	4.8	100	0.00
47	T	Trichloroethene	0.230	0.213	7.4	101	0.00
48	T	1,4-Dioxane	0.187	0.188	-0.5	101	0.00
49	T	Isooctane	0.890	0.780	12.4	97	0.00
50	T	Methyl Methacrylate	0.095	0.097	-2.1	102	0.00
51	T	n-Heptane	0.233	0.207	11.2	99	0.00

cm 1/05/07

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\29\
Data File : 12290617.D
Acq On : 29 Dec 2006 21:19
Operator : AB
Sample : 25ng TO-15 CCV std (Closing)
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 05 09:43:17 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.397	3.2	101	0.00
53	T	4-Methyl-2-pentanone	0.218	0.208	4.6	99	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.370	1.9	101	0.00
55	T	1,1,2-Trichloroethane	0.243	0.232	4.5	102	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	110	0.00
57	S	Toluene-d8 (SS2)	1.986	1.954	1.6	109	0.00
58	T	Toluene	1.860	1.713	7.9	101	0.00
59	T	2-Hexanone	0.996	0.917	7.9	98	0.00
60	T	Dibromochloromethane	0.478	0.458	4.2	102	0.00
61	T	1,2-Dibromoethane	0.513	0.488	4.9	102	0.00
62	T	Butyl Acetate	1.079	1.029	4.6	100	0.00
63	T	n-Octane	0.372	0.354	4.8	102	0.00
64	T	Tetrachloroethene	0.429	0.391	8.9	101	0.00
65	T	Chlorobenzene	1.226	1.151	6.1	103	0.00
66	T	Ethylbenzene	2.158	2.085	3.4	103	0.00
67	T	m- & p-Xylene	1.399	1.348	3.6	103	0.00
68	T	Bromoform	0.306	0.305	0.3	103	0.00
69	T	Styrene	1.288	1.288	0.0	104	0.00
70	T	o-Xylene	1.517	1.465	3.4	103	0.00
71	T	n-Nonane	0.874	0.845	3.3	101	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.699	3.6	102	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.703	-3.7	112	0.00
74	T	Cumene	1.959	1.919	2.0	103	0.00
75	T	alpha-Pinene	1.019	0.995	2.4	102	0.00
76	T	n-Propylbenzene	2.587	2.547	1.5	102	0.00
77	T	3-Ethyltoluene	2.119	2.139	-0.9	104	0.00
78	T	4-Ethyltoluene	2.004	1.919	4.2	102	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.710	2.2	103	0.00
80	T	alpha-Methylstyrene	0.910	0.952	-4.6	103	0.00
81	T	2-Ethyltoluene	2.157	2.125	1.5	103	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.710	2.1	103	0.00
83	T	n-Decane	0.948	0.925	2.4	100	0.00
84	T	Benzyl Chloride	1.649	1.657	-0.5	102	0.00
85	T	1,3-Dichlorobenzene	0.947	0.923	2.5	104	0.00
86	T	1,4-Dichlorobenzene	0.924	0.903	2.3	104	0.00
87	T	sec-Butylbenzene	2.296	2.288	0.3	103	0.00
88	T	p-Isopropyltoluene	1.842	1.855	-0.7	103	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.669	-0.3	103	0.00
90	T	1,2-Dichlorobenzene	0.891	0.859	3.6	103	0.00
91	T	d-Limonene	0.691	0.709	-2.6	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.316	-9.3	102	0.00
93	T	n-Undecane	0.800	0.786	1.8	97	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.183	-5.8	106	0.00
95	T	Naphthalene	1.896	2.119	-11.8	105	0.00
96	T	n-Dodecane	0.539	0.580	-7.6	113	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.296	-3.1	106	0.00

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

110

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603502

Internal Standard Area and RT Summary

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

Lab File ID: 12290601.D
Date Analyzed: 12/29/06
Time Analyzed: 10:00

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	430084	9.06	1832991	11.00	990808	15.81
	Upper Limit	602118	9.39	2566187	11.33	1387131	16.14
	Lower Limit	258050	8.73	1099795	10.67	594485	15.48
	Client Sample ID						
01	Method Blank	391769	9.04	1890011	10.98	984938	15.81
02	Lab Control Sample	391640	9.07	1653545	11.00	904211	15.82
03	Duplicate Lab Control Sample	391020	9.07	1693815	11.00	910853	15.82
04	WDI-VW-37-D-12-20-06	366905	9.04	1587561	10.98	902949	15.81
05	WDI-VW-37-D-12-20-06 (Dilution)	362993	9.04	1644743	10.98	878390	15.81
06							
07							
08							
09							
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16							
17							
18							
19							
20							

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

Data not evaluated

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

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

Verified by: RG Date: 1/8/07

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
28	12/22/06 4:07	12210628.D	TO-15 BFB STD	S15-12190601	LM	1	Passed
29	12/22/06 4:43	12210629.D	0.5ng TO-15 ICAL STD	S15-12190601/S15-12150605	LM	1	ICAL Passed for all
30	12/22/06 5:19	12210630.D	1.0ng TO-15 ICAL STD	S15-12190601/S15-12150605	LM	1	compounds
31	12/22/06 5:55	12210631.D	5ng TO-15 ICAL STD	S15-12190601/S15-12150605	LM	1	0.5ng-> 100ng
32	12/22/06 6:31	12210632.D	25ng TO-15 ICAL STD	S15-12190601/S15-12150607	LM	1	
33	12/22/06 7:07	12210633.D	50ng TO-15 ICAL STD	S15-12190601/S15-12150607	LM	1	
34	12/22/06 7:43	12210634.D	100ng TO-15 ICAL STD	S15-12190601/S15-12150607	LM	1	
35	12/22/06 8:18	12210635.D	25ng TO-15 ICv STD	S15-12190601/S15-12150603	LM	4	Passed all camp, except 1-Butanal

1	12/22/06 9:09	12220601.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Passed
2	12/22/06 10:09	12220602.D	CAS Can QC#1 12/20/06 (1000ml)	SC00115	LM	2	Passed 43 analyzing
3	12/22/06 11:15	12220603.D	TO-15 Method Blank (1000ml)	S15-12190601(Qc tank #481240720411)	LM	1	Passed
4	12/22/06 11:56	12220604.D	1ng TO-15 CCV STD	S15-12190601/S15-120050605	LM	1	Passed
5	12/22/06 12:32	12220605.D	25ng TO-15 LCS STD	S15-12190601/S15-120050603	LM	4	Passed
6	12/22/06 13:09	12220606.D	25ng TO-15 LCSD STD	S15-12190601/S15-120050603	LM	4	Passed, Passed as Dup
7	12/22/06 13:46	12220607.D	P2603419-033 (1.5ml)	[redacted].1,10.1)	LM	1	
8	12/22/06 14:23	12220608.D	P2603419-033 dil (0.5ml)	[redacted]0.1,10.1)	LM	1	
9	12/22/06 14:58	12220609.D	P2603419-034 (1.0ml)	[redacted](0.0,10.2)	LM	1	
10	12/22/06 15:38	12220610.D	P2603419-035 (0.60ml)	[redacted]1.9,10.1)	LM	1	
11	12/22/06 16:14	12220611.D	P2603419-036 (0.30ml)	[redacted](3.2,10.2)	LM	1	
12	12/22/06 16:52	12220612.D	P2603419-038 (0.10ml)	[redacted]3.2,10.1)	LM	1	
13	12/22/06 17:27	12220613.D	P2603419-037 (0.20ml)	[redacted]1.0,10.2)	LM	1	
14	12/22/06 18:28	12220614.D	P2603419-039 (0.025ml)	[redacted]-0.5,10.5)	LM	1	Low file, Run higher
15	12/22/06 19:04	12220615.D	P2603419-036 (25ml)	[redacted](3.2,10.2)	LM	5	
16	12/22/06 19:39	12220616.D	P2603419-036 dup (25ml)	[redacted].2,10.2)	LM	5	Passed as Dup
17	12/22/06 20:15	12220617.D	P2603419-029 (200ml)	[redacted]1.8,10.1)	LM	6	
18	12/22/06 20:51	12220618.D	blank (200ml)	rinse	LM	1	
19	12/22/06 21:32	12220619.D	P2603427-001 (1000ml)	[redacted]-4.5,3.6)	LM	9	
20	12/22/06 22:13	12220620.D	P2603427-001 dup (1000ml)	[redacted]-4.5,3.6)	LM	9	Passed, extra Dup
21	12/22/06 22:54	12220621.D	P2603427-002 (1000ml)	[redacted](-2.5,3.5)	LM	10	
22	12/22/06 23:34	12220622.D	P2603427-003 (1000ml)	[redacted]-4.2,3.6)	LM	11	
23	12/23/06 0:15	12220623.D	P2603427-004 (1000ml)	[redacted]-4.4,3.6)	LM	12	
24	12/23/06 0:56	12220624.D	P2603427-005 (1000ml)	[redacted]-2.5,3.5)	LM	13	
25	12/23/06 1:36	12220625.D	P2603427-006 (1000ml)	[redacted](-3.9,3.5)	LM	8	
26	12/23/06 2:17	12220626.D	P2603444-001 (1000ml)	[redacted](0.2,3.5)	LM	2	
27	12/23/06 2:53	12220627.D	P2603432-001 (500ml)	[redacted] (-3.2,3.5)	LM	14	
28	12/23/06 3:29	12220628.D	blank(100)	rinse	LM	1	
29	12/23/06 4:10	12220629.D	CAS Can QC (1000ml)	AC00975	LM	7	
30	12/23/06 4:51	12220630.D	CAS Can QC#3 DR 12/20/06 (1000ml)	AC00649	LM	15	Failed

2

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	12/26/06 8:49	12260601.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Passed
2	12/26/06 10:18	12260602.D	TO-15 Method Blank (1000ml)	S15-12190601	LM	1	Passed
3	12/26/06 11:05	12260603.D	1ng TO-15 CCV STD	S15-12190601/S15-12150605	LM	1	Passed
4	12/26/06 11:51	12260604.D	25ng TO-15 LCS STD	S15-12190601/S15-12150603	LM	4	Passed
5	12/26/06 12:26	12260605.D	25ng TO-15 LCSD STD	S15-12190601/S15-12150603	LM	4	Passed
6	12/26/06 13:34	12260606.D	P2603461-004 (100ml)	TRC WDI-VW-58-S-12-14-06 (-2.3,3.6)	LM	5	
7	12/26/06 14:17	12260607.D	P2603461-004 dup (100ml)	TRC WDI-VW-58-S-12-14-06 (-2.3,3.6)	LM	5	Passed as Dup
8	12/26/06 15:03	12260608.D	P2603461-005 (125ml)	TRC WDI-VW-58-S-12-14-06-SC (-3.1,3.7)	LM	6	
9	12/26/06 15:46	12260609.D	P2603461-005 dil (50ml)	TRC WDI-VW-58-S-12-14-06-SC (-3.1,3.7)	LM	6	
10	12/26/06 16:35	12260610.D	P2603461-006 (500ml)	TRC WDI-VW-58-D-12-14-06 (-2.8,3.6)	LM	5	Cone file, Run higher Vol
11	12/26/06 17:22	12260611.D	P2603461-006 (1000ml)	TRC WDI-VW-58-D-12-14-06 (-2.8,3.6)	LM	5	
12	12/26/06 18:23	12260612.D	P2603461-007 (1000ml)	TRC WDI-VW-39-S-12-14-06 (-3.3,3.8)	LM	7	
13	12/26/06 19:04	12260613.D	P2603461-008 (1000ml)	TRC WDI-VW-39-D-12-14-06 (-3.5,3.5)	LM	8	
14	12/26/06 19:44	12260614.D	P2603461-009 (1000ml)	TRC WDI-VW-38-S-12-14-06 (-2.5,3.7)	LM	4	
15	12/26/06 20:20	12260615.D	25ng TO-15 CCV	S15-12190601/S15-12150607	LM	1	Passed
16	12/26/06 21:01	12260616.D	P2603417-001 (1000ml)	[redacted]0.5,3.5)	LM	10	
17	12/26/06 21:41	12260617.D	P2603417-002 (1000ml)	[redacted]0.5,3.6)	LM	11	
18	12/26/06 22:22	12260618.D	P2603417-003 (1000ml)	[redacted].6,3.5)	LM	12	
19	12/26/06 23:03	12260619.D	P2603417-004 (1000ml)	[redacted]0.5,3.6)	LM	13	
20	12/26/06 23:43	12260620.D	P2603417-005 (1000ml)	[redacted]0.6,3.5)	LM	14	
21	12/27/06 0:24	12260621.D	P2603417-006 (1000ml)	[redacted](0.8,3.5)	LM	15	
22	12/27/06 1:05	12260622.D	P2603417-007 (1000ml)	[redacted]0.7,3.7)	LM	16	
23	12/27/06 1:45	12260623.D	P2603417-008 (1000ml)	[redacted].0,3.5)	LM	6	
24	12/27/06 2:22	12260624.D	P2603444-001 dil (100ml)	[redacted]0.2,3.5)	LM	2	
25	12/27/06 3:03	12260625.D	CAS CAN QC#2 12/22/06(1000ml)	SC00549	LM	5	

	Date/Time
17	12/27/06 21:1
18	12/27/06 21:4
19	12/27/06 22:2
20	12/27/06 23:0
21	12/27/06 23:3
22	12/28/06 0:1
23	12/28/06 0:5
24	12/28/06 1:2
25	12/28/06 2:0
26	12/28/06 2:3
27	12/28/06 3:1

	Date/Time
1	12/28/06 7:
2	12/28/06 8:
3	12/28/06 9:
4	12/28/06 1
5	12/28/06 1
6	12/28/06 1
7	12/28/06 1
8	12/28/06 1
9	12/28/06 1
10	12/28/06 1
11	12/28/06 1
12	12/28/06 1
13	12/28/06 1
14	12/28/06
15	12/28/06
16	12/28/06
17	12/28/06

	12/27/06 8:53	12270601.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Passed
	12/27/06 10:12	12270602.D	TO-15 Method Blank (1000ml)	S15-12190601	LM	1	Passed
	12/27/06 10:53	12270603.D	1ng TO-15 CCV STD	S15-12190601/S15-12150605	LM	1	Passed
	12/27/06 11:47	12270604.D	25ng TO-15 LCS STD	S15-12190601/S15-12150603	LM	2	Passed
	12/27/06 12:23	12270605.D	25ng TO-15 LCSD STD	S15-12190601/S15-12150603	LM	2	Passed Passed as Dup
	12/27/06 13:11	12270606.D	P2603461-010 (100ml) Dil Cal closed	TRC WDI-VW-38-D-12-14-06 (-2.8,4.4)	LM	5	
	12/27/06 14:03	12270607.D	P2603502-002 (1.5ml)	TRC WDI-VW-49-I-12-19-06 (-2.6,3.5)	LM	1	
	12/27/06 14:42	12270608.D	P2603502-004 (2.0ml)	TRC WDI-VW-55-I-12-19-06 (-0.9,3.5)	LM	1	Cone file, Run higher
	12/27/06 15:26	12270609.D	P2603502-004 (600ml)	TRC WDI-VW-55-I-12-19-06 (-0.9,3.5)	LM	9	Cone file, surr failed.
	12/27/06 16:08	12270610.D	P2603502-004 (100ml)	TRC WDI-VW-55-I-12-19-06 (-0.9,3.5)	LM	9	
	12/27/06 16:48	12270611.D	P2603502-004 dup (100ml)	TRC WDI-VW-55-I-12-19-06 (-0.9,3.5)	LM	9	Passed as Dup
	12/27/06 17:36	12270612.D	P2603502-002 (60ml)	TRC WDI-VW-49-I-12-19-06 (-2.6,3.7)	LM	5	
	12/27/06 18:47	12270613.D	P2603502-001 (1000ml)	TRC WDI-VW-49-S-12-19-06 (-2.2,3.5)	LM	6	
	12/27/06 19:23	12270614.D	P2603502-003 (300ml)	TRC WDI-VW-49-D-12-19-06 (-2.8,3.5)	LM	7	
	12/27/06 19:59	12270615.D	P2603502-005 (100ml)	TRC WDI-VW-55-I-12-19-06-SC (-2.9,3.5)	LM	8	
	12/27/06 20:34	12270616.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607(closing CCV)	LM	1	Passed

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
17	12/27/06 21:10	12270617.D	P2603417-001 dil (25ml)	[redacted].5,3.5)	LM	10	
18	12/27/06 21:46	12270618.D	P2603417-004 dil (100ml)	[redacted](0.5,3.6)	LM	13	
19	12/27/06 22:21	12270619.D	P2603417-005 dil (100ml)	[redacted].6,3.5)	LM	14	
20	12/27/06 23:02	12270620.D	P2603397-001 (1000ml)	[redacted]1.3,3.5)	LM	4	
21	12/27/06 23:38	12270621.D	P2603397-001 dil (100ml)	[redacted].3,3.5)	LM	4	
22	12/28/06 0:14	12270622.D	P2603512-001 (70ml)	[redacted]1,10.0)	LM	9	
23	12/28/06 0:50	12270623.D	P2603512-002 (400ml)	[redacted]1,10.2)	LM	11	
24	12/28/06 1:27	12270624.D	P2603512-003 (400ml)	[redacted].2,10.3)	LM	12	
25	12/28/06 2:03	12270625.D	P2603512-004 (400ml)	[redacted].2,10.6)	LM	15	
26	12/28/06 2:39	12270626.D	P2603512-005 (400ml)	[redacted]1,10.2)	LM	16	
27	12/28/06 3:16	12270627.D	blank (100ml)	rinse	LM	1	

1	12/28/06 7:42	12280601.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Passed
2	12/28/06 8:52	12280602.D	TO-15 Method Blank (1000ml)	S15-12190601	LM	1	Passed
3	12/28/06 9:40	12280603.D	25ng TO-15 LCS STD	S15-12190601/S15-12150603	LM	2	Passed
4	12/28/06 10:17	12280604.D	25ng TO-15 LCSD STD	S15-12190601/S15-12150603	LM	2	Passed
5	12/28/06 11:02	12280605.D	1ng TO-15 CCV STD	S15-12190601/S15-12150605	LM	1	Passed
6	12/28/06 11:41	12280606.D	P2603502-003 dil (25ml)	TRC WDI-VW-49-D-12-19-06 (-2.8,4.2)	LM	7	
7	12/28/06 12:22	12280607.D	P2603502-006 (25ml)	TRC WDI-VW-55-S-12-19-06 (-2.1,3.7)	LM	10	Passed as Dup
8	12/28/06 12:59	12280608.D	P2603502-006 dup (25ml)	TRC WDI-VW-55-S-12-19-06 (-2.1,3.7)	LM	10	
9	12/28/06 13:53	12280609.D	P2603502-006 dup (25ml)	TRC WDI-VW-55-S-12-19-06 (-2.1,3.7)	LM	10	Case file, extra dup
10	12/28/06 14:30	12280610.D	P2603502-007 (100ml)	TRC WDI-VW-55-D-12-19-06 (-2.4,3.5)	LM	13	Case file, Run higher
11	12/28/06 15:31	12280611.D	P2603502-007 (1000ml)	TRC WDI-VW-55-D-12-19-06 (-2.4,3.5)	LM	13	
12	12/28/06 16:23	12280612.D	P2603502-008 (1000ml)	TRC WDI-VW-41-S-12-19-06 (-2.7,3.7)	LM	14	
13	12/28/06 17:11	12280613.D	P2603502-009 (1000ml)	TRC WDI-VW-41-D-12-19-06 (-2.8,3.5)	LM	5	
14	12/28/06 17:49	12280614.D	P2603502-010 (25ml) dil LM 11/5/07	TRC WDI-VW-37-~~D~~ S-12-20-06 (-2.9,3.5)	LM	4	
15	12/28/06 18:46	12280615.D	P2603502-010 (1000ml) LM 11/5/07	TRC WDI-VW-37-~~D~~ S-12-20-06 (-2.9,3.5)	LM	4	
16	12/28/06 19:25	12280616.D	25ng TO-15 CCV STD	S15-12190601/S1512150607 (closing CCV)	LM	1	Passed
17	12/28/06 20:05	12280617.D	P2603512-001 (300ml)	[redacted]	LM	9	

Dup

higher
ailed.

LM 11/02/07

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	12/29/06 10:00	12290601.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	AB	1	Passed
2	12/29/06 10:50	12290602.D	Method Blank (1000m)	S15-12190601	AB	1	Passed
3	12/29/06 11:35	12290603.D	25ng TO-15 LCS	S15-12190601/S15-12150603	AB	2	Passed
4	12/29/06 12:20	12290604.D	25ng TO-15 LCS Dup	S15-12190601/S15-12150603	AB	2	Passed
5	12/29/06 12:56	12290605.D	1ng TO-15 CRQL check STD	S15-12190601/S15-12150605	AB	1	Passed
6	12/29/06 13:49	12290606.D	P2603502-011 (1000ml)	TRC WDI-VW-37-D-12-20-06 (-2.7, 3.5)	AB	5	
7	12/29/06 14:45	12290607.D	P2603530-001 (1000ml)	TRC WDI-VW-61-S-12-20-06 (-2.4, 3.5)	AB	4	
8	12/29/06 15:26	12290608.D	P2603530-001 (1000ml)	TRC WDI-VW-61-S-12-20-06 (-2.4, 3.5)	AB	4	
9	12/29/06 16:07	12290609.D	P2603530-005 (1000ml)	TRC WDI-VW-51-I-12-21-06 (-2.2, 3.5)	AB	9	
0	12/29/06 16:50	12290610.D	P2603530-005 dup (1000ml)	TRC WDI-VW-51-I-12-21-06 (-2.2, 3.5)	AB	9	
1	12/29/06 17:29	12290611.D	P2603512-009 (15ml)	[redacted], 10.5)	AB	1	
2	12/29/06 18:11	12290612.D	P2603512-010 (4.0ml)	[redacted].2, 10.2)	AB	1	
3	12/29/06 18:46	12290613.D	P2603512-009 (4.0ml)	[redacted], 10.5)	AB	1	
4	12/29/06 19:22	12290614.D	P2603502-011 Dil (100ml)	TRC WDI-VW-37-D-12-20-06 (-2.7, 3.5)	AB	5	
5	12/29/06 20:03	12290615.D	P2603530-002 (1000ml)	TRC WDI-VW-61-I-12-20-06 (-2.6, 3.5)	AB	12	
6	12/29/06 20:43	12290616.D	P2603530-003 (1000ml)	TRC WDI-VW-61-D-12-20-06 (-2.7, 3.5)	AB	13	
7	12/29/06 21:19	12290617.D	25ng TO-15 CCV std (Closing)	S15-12190601/S15-12150607	AB	1	Freon 114 bias low
8	12/29/06 21:55	12290618.D	Blank	S15-12190601	AB	1	
9	12/29/06 22:31	12290619.D	P2603512-004 Dil (50ml)	[redacted].2, 10.6)	AB	15	
0	12/29/06 23:08	12290620.D	P2603512-005 Dil (50ml)	[redacted]0.1, 10.2)	AB	16	
1	12/29/06 23:44	12290621.D	P2603512-006 (250ml)	[redacted]2, 10.0) LM	AB	8	
2	12/30/06 0:21	12290622.D	P2603512-007 (60ml)	[redacted]2, 10.2) 1194107	AB	10	
3	12/30/06 0:58	12290623.D	P2603512-008 (50ml)	[redacted].1, 10.2)	AB	11	
4	12/30/06 1:35	12290624.D	P2603445-001 (25ml)	[redacted]0.5, 3.6)	AB	6	
5	12/30/06 2:11	12290625.D	P2603445-002 (80ml)	[redacted]2, 3.6)	AB	7	
6	12/30/06 2:47	12290626.D	Blank		AB	1	

	Date/Tim
16	1/2/07 21:
17	1/2/07 22:
18	1/2/07 22:
19	1/2/07 23:
20	1/3/07 0:
21	1/3/07 0:
22	1/3/07 1:
23	1/3/07 2:
24	1/3/07 2:
25	1/3/07 3:
26	1/3/07 4:
27	1/3/07 4:
28	1/3/07 5:

1	1/2/07 9:12	01020701.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Hexane, Freon 114 bias low
2	1/2/07 10:52	01020702.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	↑
3	1/2/07 11:41	01020703.D	5ng TO-15 CCV STD	S15-12190601/S15-12150605	LM	1	Passed all comp
4	1/2/07 12:26	01020704.D	5ng TO-15 CCV STD	S15-12190601/S15-12150605	LM	1	Passed all comp.
5	1/2/07 13:16	01020705.D	TO-15 Method Blank (1000ml)	S15-12190601	LM	1	Passed
6	1/2/07 14:06	01020706.D	25ng TO-15 LCS STD	S15-12190601/S15-12150603	LM	2	Passed
7	1/2/07 14:47	01020707.D	P2603445-001 dil (1.0ml)	[redacted]0.5,3.6)	LM	1	
8	1/2/07 15:27	01020708.D	P2603445-002 dil(40.0ml)	[redacted]0.2,3.6)	LM	7	
9	1/2/07 16:06	01020709.D	P2603447-008 (2.0ml)	[redacted]5.6,3.6)	LM	1	Case file, Run higher Vol
0	1/2/07 16:56	01020710.D	P2603477-008 (1000ml)	[redacted]5.6,3.6)	LM	4	Passed
1	1/2/07 17:40	01020711.D	P2603477-008 dup (1000ml)	[redacted]5.6,3.6)	LM	4	Passed as Dup.
2	1/2/07 18:16	01020712.D	blank (100ml)	S15-12210602(test)	LM	1	
3	1/2/07 19:32	01020713.D	P2603477-001 (1000ml)	[redacted]-5.6,3.7)	LM	4	
4	1/2/07 20:13	01020714.D	P2603477-002 (1000ml)	[redacted]-4.5,3.6)	LM	5	
5	1/2/07 20:54	01020715.D	P2603477-003 (1000ml)	[redacted].1,3.6)	LM	6	

1	1/3/07 9:
2	1/3/07 10
3	1/3/07 11
4	1/3/07 12
5	1/3/07 13
6	1/3/07 13
7	1/3/07 14
8	1/3/07 15
9	1/3/07 15
10	1/3/07 16
11	1/3/07 1
12	1/3/07 1
13	1/3/07 1
14	1/3/07 1
15	1/3/07 2
16	1/3/07 2
17	1/3/07 2
18	1/3/07 2
19	1/3/07 2
20	1/3/07 2
21	1/4/07
22	1/4/07
23	1/4/07
24	1/4/07
25	1/4/07

6. SDG P2603530

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

January 16, 2007

Mr. Yassey Fahmy
TRC
21 Technology Drive
Irvine, CA 92618

RE: P2603530
WDI

Dear Mr. Fahmy:

Enclosed are the results of the sample(s) submitted to our laboratory on December 22, 2006. For your reference, these analyses have been assigned our service request number P2603530.

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 204 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

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

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

March 12, 2007

Mr. Troy Gill
TRC
21 Technology Drive
Irvine, CA 92618

Re: CAS Job File P2603530

Dear Mr. Gill:

Your CAS report number P2603530 has been revised. Pursuant your request, the case narrative has been revised to include a statement regarding the mid point standards meeting criteria. The applicable pages have been included with an "R" following the page number in the bottom right corner as an indication that it is a revised page.

Please retain this letter for your records and either return the original pages to CAS/Simi Valley or properly discard. Please contact me at (805) 526-7161 if you have any questions.

Regards,

Kate Aguilera
Project Manager

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

LABORATORY REPORT

Client:	TRC	Date of Report:	01/16/07
		Date of Revision:	**03/12/07**
Address:	21 Technology Drive	Date Received:	12/22/06
	Irvine, CA 92618	CAS Project No:	P2603530
Contact:	Mr. Yassey Fahmy	Purchase Order:	Verbal

Client Project ID: WDI

Twenty-two (22) Stainless Steel Summa Canisters labeled:

"WDI-VW-61-S-12-20-06"	"WDI-VW-61-I-12-20-06"	"WDI-VW-61-D-12-20-06"
"WDI-VW-51-S-12-21-06"	"WDI-VW-51-I-12-21-06"	"WDI-VW-51-D-12-21-06"
"WDI-VW-30-S-12-21-06"	"WDI-VW-30-I-12-21-06"	"WDI-VW-30-D-12-21-06"
"WDI-VW-62-S-12-21-06"	"WDI-VW-62-I-12-21-06"	"WDI-VW-62-D-12-21-06"
"WDI-VW-62-12-21-06 Ambient"	"WDI-VW-36-S-12-21-06"	"WDI-VW-36-D-12-21-06"
"WDI-VW-42-S-12-22-06"	"WDI-VW-42-D-12-22-06"	"WDI-VW-42-12-22-06 Ambient"
"WDI-VW-25-12-22-06"	"WDI-VW-Trip Blank -01"	"WDI-VW-Trip Blank -02"
"WDI-VW-Trip Blank -03"		

The samples were received at the laboratory under chain of custody on December 22, 2006. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Methane and Total Gaseous Non-Methane Organics as Methane Analysis

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

The mid point standards meet the percent difference criteria of 15%.

Reviewed and Approved:

for: Liliana Marghitoiu
Analytical Chemist
Air Quality Laboratory

Reviewed and Approved:

Wade Henton
GC-VOA Team Leader
Air Quality Laboratory

2R

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

CAS Project No: P2603530

Fixed Gases Analysis

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

The mid point standards meet the percent difference criteria of 10%.

Volatile Organic Compound Analysis

The samples were also analyzed by combined gas chromatography/mass spectrometry (GC/MS) for volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical systems used were comprised of a Hewlett Packard Model 5972 GC/MS/DS and an Agilent 5973inert 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 12/29/06 on Hewlett Packard Model 5972 trichlorotrifluoroethane was biased low on the closing continuing calibration verification.

The samples identified as "WDI-VW-Trip Blank-01" and "WDI-VW-Trip Blank-02" were received outside of client's 14 day hold time.

The dilution for the sample identified as "WDI-VW-30-I-12-21-06 was analyzed outside of the client's 14 day hold time. However, the original analysis of the sample was analyzed within hold time.

The results of analyses are given on the attached data sheets. 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.

3R

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: TRC Work order: P2603530
Project: WDI
Sample(s) received on: 12/22/06 Date opened: 12/22/06 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
P2603530-001			NA	
P2603530-002			NA	
P2603530-003			NA	
P2603530-004			NA	
P2603530-005			NA	
P2603530-006			NA	
P2603530-007			NA	
P2603530-008			NA	
P2603530-009			NA	
P2603530-010			NA	

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

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: TRC Work order: P2603530

Project: WDI

Sample(s) received on: 12/22/06 Date opened: 12/22/06 by: MZ

Lab Sample ID	Required pH (as received, if required)	pH (as received, if required)	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2603530-011			NA	
P2603530-012			NA	
P2603530-013			NA	
P2603530-014			NA	
P2603530-015			NA	
P2603530-016			NA	
P2603530-017			NA	
P2603530-018			NA	
P2603530-019			NA	
P2603530-020			NA	
P2603530-021			NA	
P2603530-022			NA	

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. P2603530

CAS Contact

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

Project Name: WDI

Project Number:

Project Manager: YASSER FAHMY

P.O. # / Billing Information:

Phone: (949) 727-7336 Fax: (949) 753-0111

Email Address for Result Reporting: YFAHMY@TRCSOLUTIONS.COM

Sampler (Print & Sign): STEVEN CRAWFORD Steven Crawford

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume	TO-15	EPA 25c MODIFIED (TOTAL METHANE ORGANIC CARBON)	EPA 3C MODIFIED (METHANE)		Comments e.g. Actual Preservative or specific Instructions
WDI-VW-61-S-12-20-06	1 -4.4	12-20-06	1630	AIR	SC00660	6V-.5-047	6L	X	X	X		
WDI-VW-61-I-12-20-06	2 -5.2	12-20-06	1630	AIR	SC00891	6V-.5-033	6L	X	X	X		
WDI-VW-61-D-12-20-06	3 -5.4	12-20-06	1630	AIR	SC00380	6V-.5-087	6L	X	X	X		
WDI-VW-51-S-12-21-06	4 -4.7	12-21-06	0945	AIR	SC00124	6V-.5-087	6L	X	X	X		
WDI-VW-51-I-12-21-06	5 -4.4	12-21-06	0945	AIR	SC00331	6V-.5-047	6L	X	X	X		
WDI-VW-51-D-12-21-06	6 -5.4	12-21-06	0945	AIR	SC00157	6V-.5-080	6L	X	X	X		
WDI-VW-30-S-12-21-06	7 -5.5	12-21-06	0830	AIR	SC00856	6V-.5-062	6L	X	X	X		
WDI-VW-30-I-12-21-06	8 -4.2	12-21-06	0830	AIR	SC00443	6V-.5-033	6L	X	X	X		
WDI-VW-30-D-12-21-06	9 -4.0	12-21-06	0830	AIR	SC00368	6V-.5-080	6L	X	X	X		
WDI-VW-62-S-12-21-06	10 -4.0	12-21-06	1115	AIR	SC00310	6V-.5-047	6L	X	X	X		
WDI-VW-62-I-12-21-06	11 -4.7	12-21-06	1115	AIR	SC00277	6V-.5-080	6L	X	X	X		
WDI-VW-62-D-12-21-06	12 -4.4	12-21-06	1115	AIR	SC00764	6V-.5-033	6L	X	X	X		
WDI-VW-62-12-21-06-AMBIENT	13 -5.7	12-21-06	1115	AIR	SC00629	6V-.5-062	6L	X	X	X		
WDI-VW-36-S-12-21-06	14 -5.4	12-21-06	1515	AIR	SC00075	6V-.5-087	6L	X	X	X		
WDI-VW-36-D-12-21-06	15 -5.4	12-21-06	1515	AIR	SC00327	6V-.5-033	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	12-22-06	0930	[signature]	12-22-06	09:30
[signature]	12-22-06	1130	[signature]	12/22/06	1130
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank: 10748, 10744, 10750, 10848, 10900

Temperature ____ °C

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. P2603530

CAS Contact

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

Project Name: WDI

Project Number

Project Manager: YASSER FAHMY

P.O. # / Billing Information

Phone: (949) 727-7336 Fax: (949) 753-0111

Email Address for Result Reporting: YFAHMY@TRCSOLUTIONS.COM

Sampler (Print & Sign): STEVEN CRANFORD Steven Cranford

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 METHANE ORGANIC CARBON)	EPA 3C MODIFIED (METHANE)		Comments e.g. Actual Preservative or specific instructions
WDI-VW-42-S-12-22-06	16-49	12-22-06	0738	AIR	SC00403	6V-.5-023	6L	X	X	X		
WDI-VW-42-D-12-22-06	17-49	12-22-06	0738	AIR	SC00351	6V-.5-087	6L	X	X	X		
WDI-VW-42-12-22-06-AMBIENT	18-53	12-22-06	0738	AIR	SC00078	6V-.5-062	6L	X	X	X		
WDI-VW-25-12-22-06	19-48	12-22-06	0838	AIR	SC00711	6V-.5-047	6L	X	X	X		
WDI-VW-TRIP BLANK-01-	20-299	12-06-06		AIR	AC00651	—	6L	X	X	X		
WDI-VW-TRIP BLANK-02	21-29.7	↕		AIR	AC01048	—	6L	X	X	X		
WDI-VW-TRIP BLANK-03	22-299	12-22-06		AIR	AC01253	—	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 Cranford	12-22-06	0930	[illegible]	12-22-06	9:30
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
[illegible]	12-22-06	1130	[illegible]	12/22/06	1130
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank
Temperature _____ °C

Organic Analyses Support Documentation

Veridian Project Name: WDI-TRC
Sample Collection Dates: 12/20 and 12/21/2006
Project Manager: Yasser Fahmy - TRC
Laboratory: Columbia Analytical Servies, Inc.

Reviewed By: T. A. Young
Approved By: W. G. Kay
Completion Date: 3/15/07

Deliverables:
- CLP ☐
- Tier III ☒
- Tier IV ☐
- Limited ☐
- Other

SDG*: **P2603530**

The following table indicates criteria which were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail Check if Yes or Footnote Letter for Comments Below			Problems Identified Check if Yes or Footnote Number for Comments Below			Support Documentation Attachments Check if Yes or Identify Attachment No.		
	Method 3C	Method 25C	Method TO-15	Method 3C	Method 25C	Method TO-15	Method 3C	Method 25C	Method TO-15
Holding Times	✓	✓	✓	✓	✓		✓	✓	✓
Blank Analysis Results	✓	✓	✓				✓	✓	✓
Surrogate Spike Results			✓						✓
Blank Spike Results		✓	✓					✓	✓
Laboratory Duplicate Results	✓	✓	✓				✓	✓	✓
BFB Mass Tuning			✓						✓
Initial Calibrations	✓	✓	✓				✓	✓	✓
Continuing Calibrations	✓	✓	✓			✓	✓	✓	✓
Surrogate Retention Time Shifts			✓						✓
Internal Standards Performance			✓						✓
Analytical Sequence			✓						✓
Other									

Comments: Samples: WDI-VW-61-D-12-20-06 (P2603530-003)
WDI-VW-51-D-12-21-06 (P2603530-006)

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
3C	Air	MB	Method Blank P070104-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603530

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070104-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 1/4/07
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	
74-82-8	Methane	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

all ND

Verified By: MJ Date: 1/10/07

03530SVG.RE1 - MBlank

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070104-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 1/4/07
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

all ND

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070104-LCS

Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 1/04/07
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Hydrogen	40,100	39,200	**98**	90-110	
Oxygen + Argon *	50,000	52,400	**105**	90-110	
Nitrogen	50,500	52,100	**103**	90-110	
Carbon Monoxide	50,100	52,800	**105**	90-110	
Methane	40,100	42,900	**107**	90-110	
Carbon Dioxide	50,400	53,400	**106**	90-110	

Verified By: MW Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070104-LCS

Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 1/04/07
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Hydrogen	40,100	39,500	**99**	90-110	
Oxygen + Argon *	50,000	52,500	**105**	90-110	
Nitrogen	50,500	52,300	**104**	90-110	
Carbon Monoxide	50,100	52,800	**105**	90-110	
Carbon Dioxide	50,400	53,200	**106**	90-110	

Verified By: MS Date: 1/10/07

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

WO 8/22/06

#) = Out of Range

ZW 1/4/07

COLUMBIA ANALYTICAL INC.

EPA 3C GC/TCD Analysis for Fixed Gases

Client & PAI Job# : TRC P2603530
Analyst : WHH
Sample amount : ~100uL

Printed : 1/4/07
Instrument : GC #1 / TCD #1
Date analyzed : 4 Jan 2007 14:41

Sample Result

Sample ID	Hydrogen	O2/Ar	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	Pi1	Pf1	Pi2	Pf2
STD-50000ppm	38537	52535	51303	53381	43020	53785				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	3.9%	5.1%	1.5%	6.7%	7.4%	6.8%			✓	
MB	0	0	0	0	0	0				
LAB AIR	0	227576	810885	0	0	652				
3530-001	0	37558	517968	0	0	38556	-2.4	3.5		
3530-002	0	35410	565136	0	0	107707	-2.6	3.5		
3530-003	0	24758	530340	0	0	105219	-2.7	3.5		
3530-004	0	10209	627939	0	0	69668	-2.3	3.5		
3530-005	0	137795	483052	0	0	660	-2.2	3.5		
3530-006	0	12206	686730	0	4614	112836	-2.7	3.5		
3530-007	0	104491	563835	0	0	37451	-2.7	3.7		
3530-008	0	89024	554413	0	0	47104	-2.1	3.5		
3530-009	0	114697	588765	0	0	28580	-2.0	3.6		
3530-010	0	10088	663847	0	33701	111938	-2.0	3.5		
3530-011	0	11749	561273	0	0	108408	-2.3	3.5		
3530-012	0	10669	592990	0	0	113949	-2.2	3.5		
3530-013	0	131333	460474	0	0	216	-2.8	3.5		
3530-014	0	121244	530644	0	0	32168	-2.9	3.5		
3530-015	0	74656	525284	0	0	65860	-2.7	3.5		
3530-016	0	126591	552810	0	0	39547	-2.2	3.5		
3530-017	0	72475	567534	0	0	89464	-2.4	3.5		
3530-018	0	154832	543350	0	0	701	-2.6	3.5		
3530-019	0	19766	681705	0	2295	132509	-2.4	3.5		
LCS 50000ppm S14-12	39159	52370	52063	52806	42883	53377				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	2.3%	4.8%	3.0%	5.5%	7.1%	6.0%				
3530-002 dup	0	34720	566928	0	0	108343	-2.6	3.5		
STD 50000ppm S14-09	38070	51731	50543	52593	42234	53201				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	5.1%	3.5%	0.0%	5.1%	5.5%	5.6%		✓		

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	227576	810885	0	0	652	103.9	1.00
3530-001	0	55573	766425	0	0	57051	87.9	1.48
3530-002	0	53262	850039	0	0	162005	106.5	1.50
3530-003	0	37549	804350	0	0	159583	100.1	1.52
3530-004	0	14985	921652	0	0	102255	103.9	1.47
3530-005	0	200629	703323	0	0	961	90.5	1.46
3530-006	0	18513	1041541	0	6998	171135	123.8	1.52
3530-007	0	160220	864546	0	0	57425	108.2	1.53
3530-008	0	128591	800819	0	0	68039	99.7	1.44
3530-009	0	165272	848378	0	0	41182	105.5	1.44
3530-010	0	14457	951340	0	48295	160415	117.5	1.43
3530-011	0	17244	823804	0	0	159115	100.0	1.47
3530-012	0	15534	863394	0	0	165910	104.5	1.46
3530-013	0	200862	704254	0	0	330	90.5	1.53
3530-014	0	187003	818451	0	0	49614	105.5	1.54
3530-015	0	113229	796680	0	0	99888	101.0	1.52
3530-016	0	184317	804891	0	0	57580	104.7	1.46
3530-017	0	107239	839766	0	0	132378	107.9	1.48
3530-018	0	232888	817271	0	0	1055	105.1	1.50
3530-019	0	29247	1008702	0	3396	196070	123.7	1.48
3530-002 dup	0	52224	852735	0	0	162962	106.8	1.50

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	38537	52535	51303	53381	43020	53785	
MB	ND	ND	ND	ND	ND	ND	

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COLUMBIA ANALYTICAL INC.

EPA 3C GC/TCD Analysis for Fixed Gases

Client & PAI Job# : TRC P2603530
Analyst : WHH
Sample amount : ~100uL

Printed : 1/4/07
Instrument : GC #1 / TCD #1
Date analyzed : 4 Jan 2007 14:41

LAB AIR	ND	218988	780285	ND	ND	627	99.99
3530-001	ND	63213	871793	ND	ND	64894	99.99
3530-002	ND	49992	797850	ND	ND	152058	99.99
3530-003	ND	37490	803079	ND	ND	159331	99.99
3530-004	ND	14422	887061	ND	ND	98417	99.99
3530-005	ND	221689	777149	ND	ND	~~1062~~	99.99
3530-006	ND	14950	841099	ND	5651	138200	99.99
3530-007	ND	148037	798805	ND	ND	53058	99.99
3530-008	ND	128907	802787	ND	ND	68206	99.99
3530-009	ND	156665	804197	ND	ND	39038	99.99
3530-010	ND	12308	809910	ND	41116	136567	99.99
3530-011	ND	17239	823588	ND	ND	159073	99.99
3530-012	ND	14865	826261	ND	ND	158774	99.99
3530-013	ND	221816	777720	ND	ND	~~364~~	99.99
3530-014	ND	177225	775655	ND	ND	47020	99.99
3530-015	ND	112119	788872	ND	ND	98909	99.99
3530-016	ND	176061	768838	ND	ND	55001	99.99
3530-017	ND	99342	777928	ND	ND	122630	99.99
3530-018	ND	221520	777377	ND	ND	~~1084~~	99.99
3530-019	ND	23633	815088	ND	2744	158435	99.99
3530-002 dup	ND	48897	798421	ND	ND	152582	99.99

ZW 1/9/07

COLUMBIA ANALYTICAL INC.

EPA 3C GC/TCD Analysis for Fixed Gases

Client & PAI Job# : TRC P2603530
Analyst : WHH
Sample amount : ~100uL

Printed : 1/9/07
Instrument : GC #1 / TCD #1
Date analyzed : 4 Jan 2007 16:33

Sample Result

Sample ID	Hydrogen	O2/Ar	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	Pi1	Pf1	Pi2	Pf2
STD-50000ppm	38070	51731	50543	52593	42234	53201				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	5.1%	3.5%	0.0%	5.1%	5.5%	5.6%				
MB	0	0	0	0	0	0				
LAB AIR	0	224942	798816	0	0	371				
3530-020	0	0	0	0	0	0	-14.7	3.5		
3530-021	0	0	0	0	0	0	-14.6	3.5		
3530-022	0	0	0	0	0	0	-14.7	3.5		
LCS 50000ppm S14-12	39451	52518	52264	52764	42734	53154				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	1.6%	5.1%	3.4%	5.4%	6.7%	5.5%				
LCSD 50000ppm S14-1	38709	52087	53099	51655	41862	52258				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	3.5%	4.2%	5.1%	3.2%	4.5%	3.8%				
Std 50000ppm S14-090	39572	53234	51920	53849	43381	54435				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	1.3%	6.5%	2.7%	7.6%	8.3%	8.1%				

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	224942	798816	0	0	371	102.4	1.00
3530-020	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#####	#DIV/0!
3530-021	0	0	0	0	0	0	0.0	182.00
3530-022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#####	#DIV/0!
LCS 50000ppm S14-12	39451	52518	52264	52764	42734	53154	29.3	1.00
LCSD 50000ppm S14-1	38709	52087	53099	51655	41862	52258	29.0	1.00
ACTUAL	40100	49970	50540	50050	40050	50360	28.1	1.00
% DIFFER.	0	0	0	0	0	0	0.0	1.00

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	38070	51731	50543	52593	42234	53201	
MB	ND	ND	ND	ND	ND	ND	
LAB AIR	ND	219620	779918	ND	ND	362	99.99
3530-020	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#####
3530-021	ND	ND	ND	ND	ND	ND	0.00
3530-022	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#####
LCS 50000ppm S14-12	134684	179294	178428	180136	145893	181466	99.99
LCSD 50000ppm S14-1	133620	179796	183290	178306	144501	180386	99.99
ACTUAL	142655	177767	179795	178052	142477	179155	99.99
% DIFFER.	ND	ND	ND	ND	ND	ND	0.00

Injection Log

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

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	08210601.d	10.	Test		21 Aug 106 12::5
2	4	08210602.d	10.	Test		21 Aug 106 13::5
3	4	08210603.d	10.	MB		21 Aug 106 13::0
4	4	08210604.d	10.	test		21 Aug 106 12::1
5	4	08210605.d	10.	STD 1 S14-03260601 (loop 0.17)		21 Aug 106 12::3
6	4	08210606.d	10.	STD 2 S14-04120602 (loop 0.17)		21 Aug 106 12::1
7	5	08210607.d	10.	STD 3 S14-04120602 (loop 1.00)		21 Aug 106 12::3
8	5	08210608.d	10.	STD 4 S14-04120602 (loop 10.47)		21 Aug 106 12::4
9	5	08210609.d	10.	STD 5 S14-~~06~~ 4 120602 (loop 18.0)		21 Aug 106 12::5
10	5	08210610.d	10.	lab air	WA 12/11/06	21 Aug 106 12::1
11	5	08210611.d	10.	icv		21 Aug 106 12::2
12	5	08210612.d	10.	ICV S14-07110501		21 Aug 106 12::5
13	5	08210613.d	10.	blank		21 Aug 106 12::1

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

DATE: 1 / 4 / 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\ Fxgs / 2007_01 / 04 METHOD FILE NAME: J:\GC1\METHODS\ 3C082106 .M

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD 50000 ppm S14-09010603		WH
02			
03	MB		
04	Lab Air		
05	LCS 50000 ppm S14-12150602		
06	3530-002		
07	002 Dup		
08	001		
09	004		
10	003		
11	005		
12	006		
13	007		
14	008		
15	009		
16	STD 50000 ppm S14-09010603		
17	3530-010		
18	012		
19	011		
20	013		

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	3530-014		WH
22	015		
23	016		
24	017		
25	018		
26	019		
27	STD 50000 ppm S14-09010603		
28	MB		
29	Lab Air		
30	LCS 50000 ppm S14-12150602		
31	X		
32	3530-020		
33	021		
34	022		
35	LCSD 50000 ppm S14-12150602		
36	STD 50000 ppm S14-09010603		
37			
38			
39			
40			

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
25C	Air	MB	Method Blank P070104-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____
Aq. = Aqueous; S = Solid
2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603530

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070104-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: 1/4/07
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.

all ND

Verified By: W Date: 1/10/07

03530SVG.RD1 -MBlank

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070104-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: 1/4/07
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.

all ND

Verified By: MJ Date: 1/10/07

03530SVG.RD2 -MBlank (2)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070105-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: 1/5/07
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: MS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070104-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: 1/04/07
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Methane	57.5	59.6	104	90-110	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	345	359	104	90-110	

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070104-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: 1/04/07
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Methane	57.5	55.0	96	90-110	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	345	335	97	90-110	

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070105-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: 1/05/07
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Methane	57.5	57.3	100	90-110	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	345	341	99	90-110	

Verified By: W Date: 1/10/07

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

PERFORMANCE ANALYTICAL INC.

ZW 1/9/07

EPA 25C TCA/FID Analysis for TGNMO

Client & PAI Job# : TRC P2603530
Analyst : WHH
Sample amount : 500uL / 68uL

Printed : 1/9/07
Instrument : GC #1 / FID #1
Date analyzed : 4 Jan 2007 12:29

Sample Results (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGNMO-2	Pi1	Pf1	Pi2	Pf2
STD 100ppm S14-122806	94.4	74.3	91.6	105.1					
ACTUAL	100.1	80.1	100.7	101.2					
% DIFF.	5.7%	7.3%	9.0%	3.8%	✓				
MB NL	0.00	0.00	0.00	0.00	0.00				
LAB AIR NL	1.67	2.43	568.63	0.00	0.00				
3530-001 v	0.00	5.40	v	0.79	0.00	-2.4	3.5		
3530-002 v	0.00	3.21	v	3.27	0.00	-2.6	3.5		
3530-003 v	0.44	2.27	v	2.64	0.00	-2.7	3.5		
3530-004 v	0.82	42.35	v	2.39	0.00	-2.3	3.5		
3530-005 v	1.21	36.83	v	1.04	0.00	-2.2	3.5		
3530-006 v	0.92	4133.11	v	284.44	0.00	-2.7	3.5		
3530-007 v	0.41	1.44	v	1.39	0.00	-2.7	3.7		
3530-008 v	0.59	0.79	v	1.36	0.00	-2.1	3.5		
3530-009 v	0.76	1.08	v	1.30	0.00	-2.0	3.6		
3530-010 vv	1.89	v	v	113.36	0.00	-2.0	3.5		
3530-011 v	6.69	9.51	v	3.27	0.00	-2.3	3.5		
3530-012 v	1.78	14.88	v	2.98	0.00	-2.2	3.5		
3530-013 v	0.63	1.50	v	0.00	0.00	-2.8	3.5		
3530-014 v	0.00	0.56	v	1.66	0.00	-2.9	3.5		
3530-015 v	0.53	0.00	v	0.00	0.00	-2.7	3.5		
3530-004 v dup	0.88	41.90	v	2.25	0.00	-2.3	3.5		
LCS 345ppm S14-040506	62.71	59.58	60.41	359.28					
ACTUAL	57.9	57.5	57.9	345.0					
% Recovery	108.3%	103.6%	104.4%	104.1%					
STD 100ppm S14-122806	97.77	76.91	111.25	109.19					
ACTUAL	100.1	80.1	100.7	101.2					
% DIFF.	2.3%	4.0%	10.5%	7.9%	✓				

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	ND	ND	ND	1.00	1.00	1.00
LAB AIR NL	1.67	2.43	568.63	ND	ND	1.00	1.00	1.00
3530-001 v	ND	7.99	VENT	ND	ND	1.00	1.00	1.48
3530-002 v	ND	4.82	VENT	4.92	0.82	1.00	1.00	1.50
3530-003 v	ND	3.44	VENT	4.00	0.67	1.00	1.00	1.52
3530-004 v	ND	62.16	VENT	3.51	0.59	1.00	1.00	1.47
3530-005 v	ND	53.63	VENT	1.52	0.25	1.00	1.00	1.46
3530-006 v	ND	~~6266.55~~ 3C	VENT	431.39	71.90	1.00	1.00	1.52
3530-007 v	ND	2.21	VENT	2.12	0.35	1.00	1.00	1.53
3530-008 v	ND	1.14	VENT	1.96	0.33	1.00	1.00	1.44
3530-009 v	ND	1.55	VENT	1.87	0.31	1.00	1.00	1.44
3530-010 vv	ND	VENT	VENT	162.45	27.08	1.00	1.00	1.43
3530-011 v	9.81	13.96	VENT	4.80	0.80	1.00	1.00	1.47
3530-012 v	ND	21.66	VENT	4.34	0.72	1.00	1.00	1.46
3530-013 v	ND	2.29	VENT	ND	ND	1.00	1.00	1.53
3530-014 v	ND	0.86	VENT	2.57	0.43	1.00	1.00	1.54
3530-015 v	ND	ND	VENT	ND	ND	1.00	1.00	1.52
3530-004 v dup	ND	61.49	VENT	3.30	0.55	1.00	1.00	1.47

PERFORMANCE ANALYTICAL INC.

ZW 1/5/07

EPA 25C TCA/FID Analysis for TGNMO

Client & PAI Job# : TRC P2603530
Analyst : WHH
Sample amount : 500uL / 68uL

Printed : 1/5/07
Instrument : GC #1 / FID #1
Date analyzed : 4 Jan 2007 17:25

Sample Results (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGNMO-2	Pi1	Pf1	Pi2	Pf2
STD 100ppm S14-122806	97.8	76.9	111.2	109.2					
ACTUAL	100.1	80.1	100.7	101.2					
% DIFF.	2.3%	4.0%	10.5%	7.9%					
MB NL	0.00	0.00	0.00	0.00	0.00				
LAB AIR NL	0.62	2.15	495.84	0.00	0.00				
3530-016 v	0.00	0.58	v	1.29	0.00	-2.2	3.5		
3530-017 v	0.62	0.00	v	0.00	0.00	-2.4	3.5		
3530-017 v	0.46	0.00	v	2.62	0.00	-2.4	3.5		
3530-018 v	1.17	2.01	v	0.00	0.00	-2.6	3.5		

LCS 345ppm S14-040506	61.19	54.97	57.78	334.51
ACTUAL	57.9	57.5	57.9	345.0
% Recovery	105.7%	95.6%	99.9%	97.0%
STD 100/80ppm S14-122	97.75	78.75	106.03	108.78
ACTUAL	100.1	80.1	100.7	101.2
% DIFF.	2.3%	1.7%	5.3%	7.5%

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	ND	ND	ND	1.00	1.00	1.00	
LAB AIR NL	0.62	2.15	495.84	ND	ND	1.00	1.00	1.00	
3530-016 v	ND	0.85	VENT	1.87	0.31	1.00	1.00	1.46	
3530-017 v	ND	ND	VENT	~~ND~~	ND	1.00	1.00	1.48	
3530-017 v	ND	ND	VENT	3.87	0.65	1.00	1.00	1.48	
3530-018 v	ND	3.02	VENT	ND	ND	1.00	1.00	1.50	

PERFORMANCE ANALYTICAL INC.

ZW 1/5/07

EPA 25C TCA/FID Analysis for TGNMO

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

Printed : 1/5/07
Instrument : GC #1 / FID #1
Date analyzed : 5 Jan 2007 12:38

Sample Results (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGNMO-2	Pi1	Pf1	Pi2	Pf2
STD 100/80ppm S14-122	97.1	76.4	94.6	107.7					
ACTUAL	100.1	80.1	100.7	101.2					
% DIFF.	3.0%	4.6%	6.0%	6.4%					
MB NL	0.00	0.00	0.00	0.00	0.00				
LAB AIR NL	0.39	1.81	673.32	1.00	0.00				
3530-019 w	0.59	v	v	8.35	0.00	-2.4	3.5		
3530-020	0.00	0.00	0.00	0.00	0.00	-14.7	3.5		
3530-021	0.00	0.00	0.00	0.00	0.00	-14.6	3.5		
3530-022	0.00	0.00	0.00	0.00	0.00	-14.7	3.5		

LCS 345ppm S14-040506	60.06	57.25	58.47	341.37
ACTUAL	57.9	57.5	57.9	345.0
% Recovery	103.7%	99.6%	101.1%	98.9%
STD 100ppm S14-122806	97.72	77.86	94.34	108.01
ACTUAL	100.1	80.1	100.7	101.2
% DIFF.	2.4%	2.8%	6.3%	6.7%

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	ND	ND	ND	1.00	1.00	1.00	
LAB AIR NL	0.39	1.81	673.32	1.00	0.17	1.00	1.00	1.00	
3530-019 w	ND	VENT	VENT	12.35	2.06	1.00	1.00	1.48	5
3530-020	ND	ND	ND	ND	ND	1.00	1.00	#####	5
3530-021	ND	ND	ND	ND	ND	1.00	1.00	#####	5
3530-022	ND	ND	ND	ND	ND	1.00	1.00	#####	5

Injection Log

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

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

WE 10/23/06

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

DATE: 1 / 4 / 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_01\07 METHOD FILE NAME: J:\GC1\METHODS_____.M

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD 100ppm S14 12280601		WK
02	MB		
03	Lab Air		
04	LCS 345ppm S14 04050602		
05	x		
06	x		
07	3530-001 ✓		
08	002 ✓		
09	003 ✓		
10	004 ✓		
11	004 Dup ✓		
12	005 ✓		
13	006 ✓		
14	007 ✓		
15	STD 100ppm S14-12280601		
16	3530-008 ✓		
17	x		
18	3530-010 ✓✓		
19	012 ✓		
20	011 ✓		

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	3530-013 ✓		WK
22	x		
23	3530-015 ✓		
24	014 ✓		
25	009 ✓		
26	STD 100ppm S14-12280601		
27	MB		
28	MB		
29	Lab Air		
30	LCS 345ppm S14-04050602		
31	x		
32	3530-016 ✓		
33	017 ✓		
34	017 ✓		
35	018 ✓		
36	0012-001 ✓✓		
37	001 ✓✓ Dup		
38	002 ✓✓		
39	003 ✓✓		
40	STD 100ppm S14-12280601		

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

DATE: 1 / 5 / 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\2007-01\05 METHOD FILE NAME: J:\GC1\METHODS_____.M

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	SFD 100 ppm 514-12280601		LW
02	↓		
03	MB		
04	Lab air		
05	LCS 345 ppm 514-04050602		
06	0012-004 VV		
07	004 VV Dup		
08	005		
09	006		
10	3530-019 - VV		
11	Wait		
12	3530-020		
13	021		
14	022		
15	SFD 100 ppm 514-12280601		
16			
17			
18		all good	
19		Just testing	
20			

	DATA FILE HEADER INFO	CLIENT	ANALYST
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Blank Analysis Results for Target Analytes

Fraction (1)	Matrix (Aq., S, Air)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
TO-15	Air	MB	Method Blank P061229-MB	None			
			Method Blank P070103-MB	None			

1) V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid

2) MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: SDG P2603530

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P061229-MB

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

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 12/29/06
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

all ND

Verified By: [illegible] Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

✓

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

CAS Project ID: P2603530
CAS Sample ID: P061229-MB

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

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 12/29/06
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.

all ND

Verified By: μ Date: 1/10/07

03530VOA.RD1 - MBlank

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

✓

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

CAS Project ID: P2603530
CAS Sample ID: P070103-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: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

all ND

Verified By: LW Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070103-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: 1/3/07
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.

all ND

Verified By: MS Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070103-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 1/3/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

all ND

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070105-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: 1/5/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

Data not evaluated

Verified By: MW Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070105-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: 1/5/07
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: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603530

Surrogate Spike Recovery Results

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo/Aristotle Bragasin/Liliana Marghitoiu
Sampling Media: Summa Canister(s)
Test Notes:

Date Collected: 12/6 - 12/22/06
Date Received: 12/22/06
Date Analyzed: 12/29 - 1/5/07

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	P061229-MB	90	80-120	100	80-120	103	80-120	
Method Blank	P070103-MB	93	80-120	100	80-120	107	80-120	
Method Blank	P070103-MB	93	80-120	102	80-120	102	80-120	
Method Blank	P070105-MB	94	80-120	99	80-120	100	80-120	
Lab Control Sample	P061229-LCS	93	80-120	100	80-120	103	80-120	
Lab Control Sample	P070103-LCS	96	80-120	98	80-120	110	80-120	
Lab Control Sample	P070103-LCS	99	80-120	101	80-120	105	80-120	
Lab Control Sample	P070105-LCS	97	80-120	99	80-120	100	80-120	
Duplicate Lab Control Sample	P061229-DLCS	94	80-120	101	80-120	102	80-120	
Duplicate Lab Control Sample	P070103-DLCS	95	80-120	99	80-120	112	80-120	
Duplicate Lab Control Sample	P070103-DLCS	99	80-120	100	80-120	104	80-120	
Duplicate Lab Control Sample	P070105-DLCS	98	80-120	100	80-120	99	80-120	
WDI-VW-61-S-12-20-06	P2603530-001	89	80-120	103	80-120	102	80-120	
WDI-VW-61-I-12-20-06	P2603530-002	96	80-120	98	80-120	105	80-120	
WDI-VW-61-D-12-20-06	P2603530-003	90	80-120	102	80-120	101	80-120	
WDI-VW-51-S-12-21-06	P2603530-004	90	80-120	100	80-120	108	80-120	
WDI-VW-51-I-12-21-06	P2603530-005	91	80-120	97	80-120	93	80-120	
WDI-VW-51-I-12-21-06	P2603530-005DUP	92	80-120	97	80-120	93	80-120	
WDI-VW-51-D-12-21-06	P2603530-006	98	80-120	97	80-120	106	80-120	
WDI-VW-51-D-12-21-06	P2603530-006DUP	100	80-120	98	80-120	105	80-120	
WDI-VW-30-S-12-21-06	P2603530-007	89	80-120	100	80-120	109	80-120	
WDI-VW-30-I-12-21-06	P2603530-008	91	80-120	100	80-120	109	80-120	
WDI-VW-30-D-12-21-06	P2603530-009	92	80-120	100	80-120	110	80-120	
WDI-VW-62-S-12-21-06	P2603530-010	98	80-120	99	80-120	110	80-120	
WDI-VW-62-I-12-21-06	P2603530-011	91	80-120	90	80-120	93	80-120	
WDI-VW-62-D-12-21-06	P2603530-012	90	80-120	100	80-120	102	80-120	
WDI-VW-62-12-21-06 Ambient	P2603530-013	91	80-120	102	80-120	103	80-120	
WDI-VW-62-12-21-06 Ambient	P2603530-013DUP	91	80-120	102	80-120	101	80-120	
WDI-VW-36-S-12-21-06	P2603530-014	91	80-120	100	80-120	102	80-120	
WDI-VW-36-D-12-21-06	P2603530-015	88	80-120	100	80-120	101	80-120	
WDI-VW-42-S-12-22-06	P2603530-016	90	80-120	102	80-120	102	80-120	
WDI-VW-42-D-12-22-06	P2603530-017	90	80-120	99	80-120	99	80-120	
WDI-VW-42-12-22-06 Ambient	P2603530-018	88	80-120	102	80-120	100	80-120	
WDI-VW-25-12-22-06	P2603530-019	97	80-120	100	80-120	110	80-120	
WDI-VW-Trip Blank -01	P2603530-020	91	80-120	101	80-120	102	80-120	
WDI-VW-Trip Blank -02	P2603530-021	92	80-120	100	80-120	101	80-120	
WDI-VW-Trip Blank -03	P2603530-022	91	80-120	101	80-120	110	80-120	

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

all OK

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P061229-LCS, P061229-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/29/06
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	24.0	23.9	**99**	**98**	65-135	**1**	35	
Vinyl Chloride	24.8	21.5	22.1	**87**	**89**	65-135	**2**	35	
Bromomethane	25.0	23.9	25.0	**96**	**100**	65-135	**4**	35	
Chloroethane	25.0	23.1	23.6	**92**	**94**	65-135	**2**	35	
Acetone	26.5	24.1	24.4	**91**	**92**	65-135	**1**	35	
Trichlorofluoromethane	24.3	23.8	24.2	**98**	**100**	65-135	**2**	35	
1,1-Dichloroethene	27.3	27.8	28.1	**102**	**103**	65-135	**1**	35	
Methylene chloride	26.8	25.9	26.4	**97**	**99**	65-135	**2**	35	
Trichlorotrifluoroethane	27.0	21.6	23.3	**80**	**86**	65-135	**7**	35	
Carbon Disulfide	25.0	23.7	24.2	**95**	**97**	65-135	**2**	35	
trans-1,2-Dichloroethene	26.3	25.7	26.1	**98**	**99**	65-135	**1**	35	
1,1-Dichloroethane	26.3	26.7	26.8	**102**	**102**	65-135	**0**	35	
Methyl tert-Butyl Ether	26.3	22.2	24.0	**84**	**91**	65-135	**8**	35	
Vinyl Acetate	24.3	22.2	23.0	**91**	**95**	65-135	**4**	35	
2-Butanone (MEK)	26.8	25.6	27.3	**96**	**102**	65-135	**6**	35	
cis-1,2-Dichloroethene	26.5	26.3	26.4	**99**	**100**	65-135	**1**	35	
Chloroform	30.0	27.7	27.9	**92**	**93**	65-135	**1**	35	
1,2-Dichloroethane	26.0	24.8	25.3	**95**	**97**	65-135	**2**	35	
1,1,1-Trichloroethane	26.3	25.9	26.1	**98**	**99**	65-135	**1**	35	
Benzene	26.3	26.0	26.2	**99**	**100**	65-135	**1**	35	
Carbon Tetrachloride	25.8	25.8	26.1	**100**	**101**	65-135	**1**	35	
1,2-Dichloropropane	26.0	26.8	26.8	**103**	**103**	65-135	**0**	35	

Verified By: MW Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P061229-LCS, P061229-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 12/29/06
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	28.5	28.8	**104**	**105**	65-135	**1**	35	
Trichloroethene	27.3	28.4	28.5	**104**	**104**	65-135	**0**	35	
cis-1,3-Dichloropropene	26.0	26.4	26.3	**102**	**101**	65-135	**1**	35	
4-Methyl-2-pentanone	26.5	29.7	29.6	**112**	**112**	65-135	**0**	35	
trans-1,3-Dichloropropene	27.8	30.1	29.7	**108**	**107**	65-135	**0.9**	35	
1,1,2-Trichloroethane	25.8	27.1	27.2	**105**	**105**	65-135	**0**	35	
Toluene	26.0	27.0	27.3	**104**	**105**	65-135	**1**	35	
2-Hexanone	26.0	28.5	28.8	**110**	**111**	65-135	**0.9**	35	
Dibromochloromethane	26.5	28.5	28.9	**108**	**109**	65-135	**0.9**	35	
1,2-Dibromoethane	26.0	27.5	27.8	**106**	**107**	65-135	**0.9**	35	
Tetrachloroethene	25.8	26.7	26.8	**103**	**104**	65-135	**1**	35	
Chlorobenzene	26.0	27.6	27.6	**106**	**106**	65-135	**0**	35	
Ethylbenzene	25.8	27.6	27.6	**107**	**107**	65-135	**0**	35	
m,p-Xylenes	61.5	66.3	66.0	**108**	**107**	65-135	**0.9**	35	
Bromoform	31.3	33.1	33.2	**106**	**106**	65-135	**0**	35	
Styrene	25.8	28.6	28.5	**111**	**110**	65-135	**0.9**	35	
o-Xylene	29.0	31.4	31.3	**108**	**108**	65-135	**0**	35	
1,1,2,2-Tetrachloroethane	29.3	31.4	31.2	**107**	**106**	65-135	**0.9**	35	
1,3-Dichlorobenzene	25.3	27.4	27.2	**108**	**108**	65-135	**0**	35	
1,4-Dichlorobenzene	26.0	28.2	28.2	**108**	**108**	65-135	**0**	35	
1,2-Dichlorobenzene	25.5	27.6	27.4	**108**	**107**	65-135	**0.9**	35	

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070103-LCS, P070103-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: 1/3/07
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	22.2	20.0	91	82	65-135	10	35	
Vinyl Chloride	24.8	21.5	21.0	87	85	65-135	2	35	
Bromomethane	25.0	23.5	23.5	94	94	65-135	0	35	
Chloroethane	25.0	21.0	21.3	84	85	65-135	1	35	
Acetone	26.5	21.5	21.1	81	80	65-135	1	35	
Trichlorofluoromethane	24.3	24.9	24.8	102	102	65-135	0	35	
1,1-Dichloroethene	27.3	26.4	26.2	97	96	65-135	1	35	
Methylene chloride	26.8	24.6	24.4	92	91	65-135	1	35	
Trichlorotrifluoroethane	27.0	20.9	23.0	77	85	65-135	10	35	
Carbon Disulfide	25.0	22.2	22.2	89	89	65-135	0	35	
trans-1,2-Dichloroethene	26.3	23.6	23.8	90	90	65-135	0	35	
1,1-Dichloroethane	26.3	24.8	24.2	94	92	65-135	2	35	
Methyl tert-Butyl Ether	26.3	21.4	23.1	81	88	65-135	8	35	
Vinyl Acetate	24.3	20.8	22.1	86	91	65-135	6	35	
2-Butanone (MEK)	26.8	23.3	25.1	87	94	65-135	8	35	
cis-1,2-Dichloroethene	26.5	24.1	24.3	91	92	65-135	1	35	
Chloroform	30.0	27.3	27.0	91	90	65-135	1	35	
1,2-Dichloroethane	26.0	24.8	25.3	95	97	65-135	2	35	
1,1,1-Trichloroethane	26.3	26.1	26.5	99	101	65-135	2	35	
Benzene	26.3	23.9	24.0	91	91	65-135	0	35	
Carbon Tetrachloride	25.8	26.5	27.3	103	106	65-135	3	35	
1,2-Dichloropropane	26.0	24.0	23.9	92	92	65-135	0	35	

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070103-LCS, P070103-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: 1/3/07
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	27.9	28.2	**101**	**103**	65-135	**2**	35	
Trichloroethene	27.3	27.3	27.5	**100**	**101**	65-135	**1**	35	
cis-1,3-Dichloropropene	26.0	24.2	24.3	**93**	**93**	65-135	**0**	35	
4-Methyl-2-pentanone	26.5	25.9	25.8	**98**	**97**	65-135	**1**	35	
trans-1,3-Dichloropropene	27.8	28.4	28.3	**102**	**102**	65-135	**0**	35	
1,1,2-Trichloroethane	25.8	26.1	26.3	**101**	**102**	65-135	**1**	35	
Toluene	26.0	25.1	25.5	**97**	**98**	65-135	**1**	35	
2-Hexanone	26.0	24.6	24.9	**95**	**96**	65-135	**1**	35	
Dibromochloromethane	26.5	28.4	29.1	**107**	**110**	65-135	**3**	35	
1,2-Dibromoethane	26.0	26.5	26.9	**102**	**103**	65-135	**1**	35	
Tetrachloroethene	25.8	26.2	27.0	**102**	**105**	65-135	**3**	35	
Chlorobenzene	26.0	25.9	26.1	**100**	**100**	65-135	**0**	35	
Ethylbenzene	25.8	25.9	26.2	**100**	**102**	65-135	**2**	35	
m,p-Xylenes	61.5	62.8	63.4	**102**	**103**	65-135	**1**	35	
Bromoform	31.3	33.9	34.9	**108**	**112**	65-135	**4**	35	
Styrene	25.8	27.1	27.5	**105**	**107**	65-135	**2**	35	
o-Xylene	29.0	30.0	30.1	**103**	**104**	65-135	**1**	35	
1,1,2,2-Tetrachloroethane	29.3	28.7	29.3	**98**	**100**	65-135	**2**	35	
1,3-Dichlorobenzene	25.3	27.6	27.9	**109**	**110**	65-135	**0.9**	35	
1,4-Dichlorobenzene	26.0	28.6	28.8	**110**	**111**	65-135	**0.9**	35	
1,2-Dichlorobenzene	25.5	27.6	27.7	**108**	**109**	65-135	**0.9**	35	

Verified By: MW Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070103-LCS, P070103-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 1/3/07
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	19.9	19.5	82	80	65-135	2	35	
Vinyl Chloride	24.8	24.8	22.5	100	91	65-135	9	35	
Bromomethane	25.0	21.4	21.7	86	87	65-135	1	35	
Chloroethane	25.0	22.2	21.0	89	84	65-135	6	35	
Acetone	26.5	23.0	23.4	87	88	65-135	1	35	
Trichlorofluoromethane	24.3	23.0	21.2	95	87	65-135	9	35	
1,1-Dichloroethene	27.3	25.8	23.8	95	87	65-135	9	35	
Methylene chloride	26.8	24.0	22.0	90	82	65-135	9	35	
Trichlorotrifluoroethane	27.0	24.0	25.7	89	95	65-135	7	35	
Carbon Disulfide	25.0	22.6	20.7	90	83	65-135	8	35	
trans-1,2-Dichloroethene	26.3	24.2	22.9	92	87	65-135	6	35	
1,1-Dichloroethane	26.3	23.0	21.4	87	81	65-135	7	35	
Methyl tert-Butyl Ether	26.3	22.8	24.8	87	94	65-135	8	35	
Vinyl Acetate	24.3	25.8	26.2	106	108	65-135	2	35	
2-Butanone (MEK)	26.8	23.8	24.0	89	90	65-135	1	35	
cis-1,2-Dichloroethene	26.5	24.6	22.8	93	86	65-135	8	35	
Chloroform	30.0	26.7	25.1	89	84	65-135	6	35	
1,2-Dichloroethane	26.0	25.6	24.0	98	92	65-135	6	35	
1,1,1-Trichloroethane	26.3	24.3	24.7	92	94	65-135	2	35	
Benzene	26.3	21.9	21.5	83	82	65-135	1	35	
Carbon Tetrachloride	25.8	26.8	27.1	104	105	65-135	1	35	
1,2-Dichloropropane	26.0	22.9	22.3	88	86	65-135	2	35	

Verified By: KW Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070103-LCS, P070103-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 1/3/07
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	25.5	24.8	93	90	65-135	3	35	
Trichloroethene	27.3	26.4	25.1	97	92	65-135	5	35	
cis-1,3-Dichloropropene	26.0	22.8	22.5	88	87	65-135	1	35	
4-Methyl-2-pentanone	26.5	22.9	23.2	86	88	65-135	2	35	
trans-1,3-Dichloropropene	27.8	25.9	25.8	93	93	65-135	0	35	
1,1,2-Trichloroethane	25.8	23.7	23.2	92	90	65-135	2	35	
Toluene	26.0	23.8	23.7	92	91	65-135	1	35	
2-Hexanone	26.0	22.2	22.2	85	85	65-135	0	35	
Dibromochloromethane	26.5	26.9	26.5	102	100	65-135	2	35	
1,2-Dibromoethane	26.0	25.5	24.8	98	95	65-135	3	35	
Tetrachloroethene	25.8	25.5	24.9	99	97	65-135	2	35	
Chlorobenzene	26.0	24.6	24.2	95	93	65-135	2	35	
Ethylbenzene	25.8	24.0	23.7	93	92	65-135	1	35	
m,p-Xylenes	61.5	60.8	57.7	99	94	65-135	5	35	
Bromoform	31.3	31.2	30.5	100	97	65-135	3	35	
Styrene	25.8	25.9	24.5	100	95	65-135	5	35	
o-Xylene	29.0	29.0	27.3	100	94	65-135	6	35	
1,1,2,2-Tetrachloroethane	29.3	27.3	27.0	93	92	65-135	1	35	
1,3-Dichlorobenzene	25.3	26.5	24.5	105	97	65-135	8	35	
1,4-Dichlorobenzene	26.0	27.2	25.2	105	97	65-135	8	35	
1,2-Dichlorobenzene	25.5	27.3	25.1	107	98	65-135	9	35	

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070105-LCS, P070105-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: 1/5/07
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	24.0	21.7	99	89	65-135	11	35	
Vinyl Chloride	24.8	21.0	21.4	85	86	65-135	1	35	
Bromomethane	25.0	22.5	23.1	90	92	65-135	2	35	
Chloroethane	25.0	22.5	23.1	90	92	65-135	2	35	
Acetone	26.5	24.2	24.5	91	92	65-135	1	35	
Trichlorofluoromethane	24.3	22.4	22.4	92	92	65-135	0	35	
1,1-Dichloroethene	27.3	26.1	26.1	96	96	65-135	0	35	
Methylene chloride	26.8	24.3	24.5	91	91	65-135	0	35	
Trichlorotrifluoroethane	27.0	19.9	23.0	74	85	65-135	14	35	
Carbon Disulfide	25.0	22.6	23.0	90	92	65-135	2	35	
trans-1,2-Dichloroethene	26.3	25.4	25.7	97	98	65-135	1	35	
1,1-Dichloroethane	26.3	24.7	24.4	94	93	65-135	1	35	
Methyl tert-Butyl Ether	26.3	22.0	24.6	84	94	65-135	11	35	
Vinyl Acetate	24.3	22.9	24.6	94	101	65-135	7	35	
2-Butanone (MEK)	26.8	24.4	26.4	91	99	65-135	8	35	
cis-1,2-Dichloroethene	26.5	25.7	25.8	97	97	65-135	0	35	
Chloroform	30.0	27.3	27.4	91	91	65-135	0	35	
1,2-Dichloroethane	26.0	24.2	25.2	93	97	65-135	4	35	
1,1,1-Trichloroethane	26.3	24.4	25.1	93	95	65-135	2	35	
Benzene	26.3	24.9	25.0	95	95	65-135	0	35	
Carbon Tetrachloride	25.8	24.2	25.2	94	98	65-135	4	35	
1,2-Dichloropropane	26.0	26.0	26.0	100	100	65-135	0	35	

Data not evaluated

Verified By: MJ Date: 1/10/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2603530
CAS Sample ID: P070105-LCS, P070105-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: 1/5/07
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	27.6	27.5	100	100	65-135	0	35	
Trichloroethene	27.3	25.9	26.4	95	97	65-135	2	35	
cis-1,3-Dichloropropene	26.0	24.7	24.6	95	95	65-135	0	35	
4-Methyl-2-pentanone	26.5	28.0	28.0	106	106	65-135	0	35	
trans-1,3-Dichloropropene	27.8	28.2	27.9	101	100	65-135	1	35	
1,1,2-Trichloroethane	25.8	26.1	26.0	101	101	65-135	0	35	
Toluene	26.0	25.0	25.1	96	97	65-135	1	35	
2-Hexanone	26.0	27.1	27.1	104	104	65-135	0	35	
Dibromochloromethane	26.5	26.3	26.3	99	99	65-135	0	35	
1,2-Dibromoethane	26.0	25.9	25.9	100	100	65-135	0	35	
Tetrachloroethene	25.8	24.6	25.0	95	97	65-135	2	35	
Chlorobenzene	26.0	25.6	25.5	98	98	65-135	0	35	
Ethylbenzene	25.8	25.7	25.5	100	99	65-135	1	35	
m,p-Xylenes	61.5	62.0	61.4	101	100	65-135	1	35	
Bromoform	31.3	30.9	30.8	99	98	65-135	1	35	
Styrene	25.8	26.8	26.4	104	102	65-135	2	35	
o-Xylene	29.0	29.2	29.0	101	100	65-135	1	35	
1,1,2,2-Tetrachloroethane	29.3	29.7	29.2	101	100	65-135	1	35	
1,3-Dichlorobenzene	25.3	25.9	25.5	102	101	65-135	1	35	
1,4-Dichlorobenzene	26.0	26.9	26.3	103	101	65-135	2	35	
1,2-Dichlorobenzene	25.5	26.6	25.8	104	101	65-135	3	35	

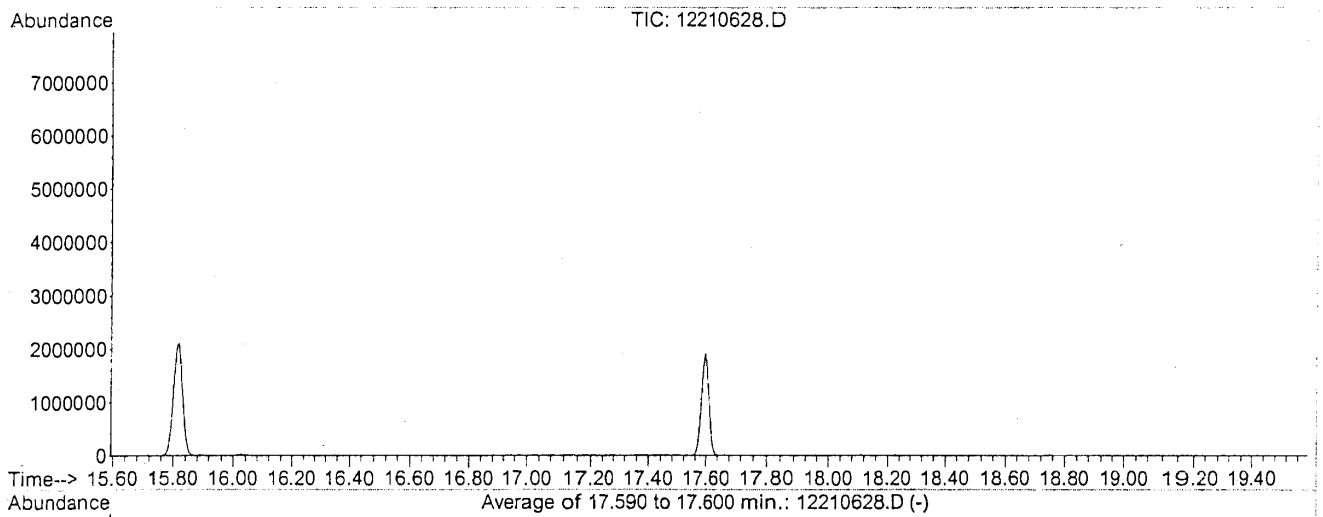
Verified By: MJ Date: 1/10/07

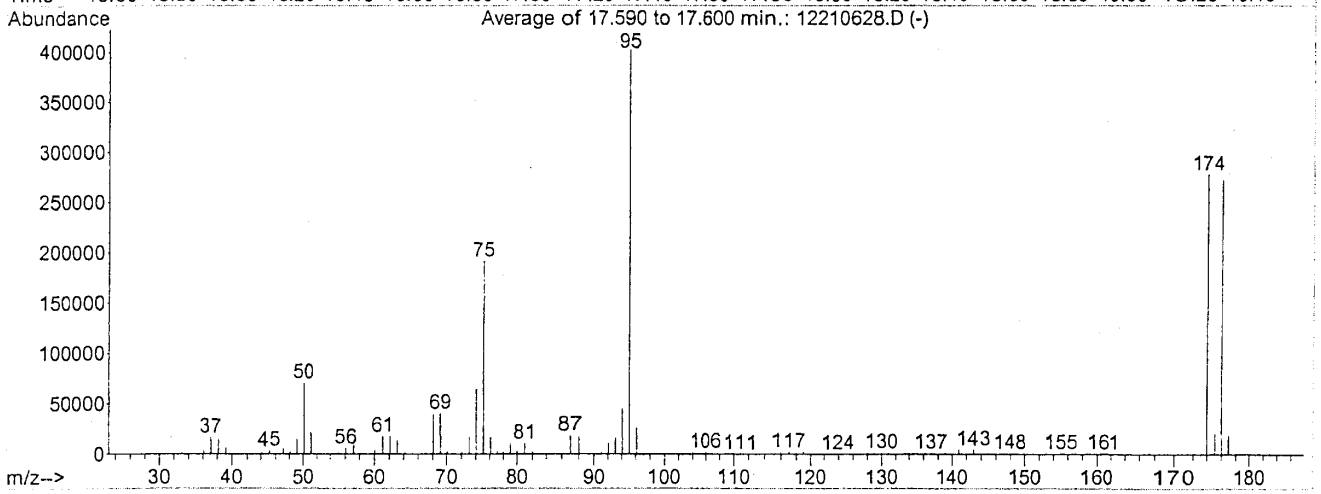
BFB

Data Path : J:\MS08\Data\2006_012\21\
Data File : 12210628.D
Acq On : 22 Dec 2006 4:07 ✓
Operator : LM
Sample : TO-15 BFB STD
Misc : S15-12190601
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Dec 07 08:17:50 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.4	70200	PASS
75	95	30	66	47.6	191509	PASS
95	95	100	100	100.0	402368	PASS
96	95	5	9	6.4	25920	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	69.1	278080	PASS
175	174	4	9	7.3	20405	PASS
176	174	93	101	97.9	272213	PASS
177	176	5	9	6.7	18154	PASS

LM 12/22/06

Response Factor Report MS08

Method Path : J:\MS08\METHODS\
Method File : R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006
Response Via : Initial Calibration

all ok for Target

Calibration Files
0.5 =12210629.D 1 =12210630.D 5 =12210631.D 25 =12210632.D
50 =12210633.D 100 =12210634.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I	----------ISTD----------							
2)	T	Propene	1.639	1.429	1.261	0.940	0.900	0.843	1.169	27.79
3)	T	Dichlorodifluorom	2.887	2.628	2.425	2.189	2.073	1.945	2.358	15.15
4)	T	Chloromethane	2.014	1.983	1.910	1.806	1.717	1.629	1.843	8.28
5)	T	Freon 114	0.770	0.770	0.659	0.593	0.577	0.521	0.648	16.06
6)	T	Vinyl Chloride	1.470	1.513	1.305	1.050	1.040	1.008	1.231	18.57
7)	T	1,3-Butadiene	1.172	1.151	1.047	0.919	0.902	0.836	1.005	13.88
8)	T	Bromomethane	1.142	1.096	1.010	0.900	0.913	0.927	0.998	10.24
9)	T	Chloroethane	1.066	1.024	0.925	0.827	0.802	0.784	0.905	13.26
10)	T	Ethanol	0.685	0.626	0.687	0.808	0.793	0.796	0.732	10.39
11)	T	Acetonitrile	2.219	2.214	2.071	2.088	2.000	1.974	2.094	4.96
12)	T	Acrolein	0.750	0.686	0.696	0.692	0.674	0.656	0.692	4.57
13)	T	Acetone	1.448	1.192	1.099	0.908	0.921	0.912	1.080	19.89
14)	T	Trichlorofluorome	1.772	1.677	1.613	1.553	1.525	1.484	1.604	6.64
15)	T	Isopropanol	3.312	3.188	2.647	2.980	2.566	2.292	2.831	13.92
16)	T	Acrylonitrile	1.519	1.446	1.431	1.485	1.454	1.419	1.459	2.53
17)	T	1,1-Dichloroethen	1.132	1.098	1.106	1.069	1.043	1.021	1.078	3.86
18)	T	tert-Butanol	3.092	3.021	2.736	2.488	2.271	1.934	2.590	17.28
19)	T	Methylene Chlorid	1.370	1.320	1.232	1.175	1.141	1.119	1.226	8.23
20)	T	Allyl Chloride	1.374	1.311	1.449	1.547	1.511	1.509	1.450	6.30
21)	T	Trichlorotrifluor	0.805	0.805	0.659	0.555	0.611	0.667	0.684	14.92
22)	T	Carbon Disulfide	5.640	5.016	4.511	4.239	4.182	4.018	4.601	13.42
23)	T	trans-1,2-Dichlor	1.757	1.763	1.670	1.631	1.637	1.627	1.681	3.76
24)	T	1,1-Dichloroethan	1.901	1.798	1.690	1.695	1.638	1.585	1.718	6.66
25)	T	Methyl tert-Butyl	3.394	3.372	2.838	2.611	2.652	2.597	2.911	12.91
26)	T	Vinyl Acetate	0.254	0.265	0.244	0.238	0.241	0.236	0.246	4.52
27)	T	2-Butanone	0.771	0.766	0.757	0.761	0.760	0.753	0.761	0.86
28)	T	cis-1,2-Dichloroe	1.683	1.603	1.535	1.525	1.526	1.498	1.562	4.43
29)	T	Diisopropyl Ether	0.950	0.913	0.812	0.769	0.764	0.734	0.824	10.68
30)	T	Ethyl Acetate	0.358	0.407	0.388	0.370	0.364	0.353	0.373	5.51
31)	T	n-Hexane	1.888	1.846	1.523	1.337	1.371	1.333	1.550	16.50
32)	T	Chloroform	1.990	1.926	1.661	1.680	1.554	1.460	1.712	12.12
33)	S	1,2-Dichloroethan	1.849	1.894	1.770	1.773	1.733	1.676	1.783	4.40
34)	T	Tetrahydrofuran	0.774	0.796	0.757	0.741	0.743	0.636	0.741	7.49
35)	T	Ethyl tert-Butyl	1.347	1.326	1.179	1.156	1.144	1.124	1.213	8.06
36)	T	1,2-Dichloroethan	1.628	1.627	1.514	1.496	1.502	1.417	1.531	5.37
37)	IR	1,4-Difluorobenzene (	----------ISTD----------							
38)	T	1,1,1-Trichloroet	0.402	0.395	0.364	0.371	0.364	0.364	0.377	4.63
39)	T	Isopropyl Acetate	0.157	0.148	0.149	0.159	0.152	0.148	0.152	3.05
40)	T	1-Butanol	0.157	0.149	0.166	0.216	0.201	0.192	0.180	14.79
41)	T	Benzene	1.102	1.033	0.953	0.938	0.909	0.896	0.972	8.21
42)	T	Carbon Tetrachlor	0.330	0.325	0.308	0.317	0.313	0.315	0.318	2.60
43)	T	Cyclohexane	0.405	0.398	0.338	0.330	0.329	0.330	0.355	10.14
44)	T	tert-Amyl Methyl	0.712	0.693	0.650	0.669	0.646	0.629	0.666	4.70
45)	T	1,2-Dichloropropa	0.266	0.246	0.242	0.246	0.237	0.235	0.246	4.46
46)	T	Bromodichlorometh	0.332	0.330	0.331	0.343	0.328	0.326	0.332	1.80
47)	T	Trichloroethene	0.251	0.235	0.228	0.229	0.221	0.217	0.230	5.25
48)	T	1,4-Dioxane	0.181	0.181	0.187	0.201	0.190	0.182	0.187	4.19
49)	T	Isooctane	0.991	0.947	0.869	0.873	0.843	0.818	0.890	7.39
50)	T	Methyl Methacryla	0.094	0.088	0.092	0.102	0.098	0.096	0.095	5.42
51)	T	n-Heptane	0.255	0.245	0.232	0.227	0.221	0.216	0.233	6.36
52)	T	cis-1,3-Dichlorop	0.418	0.408	0.412	0.425	0.406	0.389	0.410	3.00
53)	T	4-Methyl-2-pentan	0.217	0.221	0.228	0.226	0.216	0.202	0.218	4.32
54)	T	trans-1,3-Dichlor	0.372	0.372	0.373	0.395	0.381	0.373	0.377	2.50
55)	T	1,1,2-Trichloroet	0.256	0.250	0.239	0.245	0.237	0.230	0.243	3.95
56)	I	Chlorobenzene-d5 (IS3	----------ISTD----------							
57)	S	Toluene-d8 (SS2)	1.978	1.986	1.965	1.979	2.003	2.009	1.986	0.83

12/29/06

Response Factor Report MS08

Method Path : J:\MS08\METHODS\
Method File : R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006
Response Via : Initial Calibration

Calibration Files
0.5 =12210629.D 1 =12210630.D 5 =12210631.D 25 =12210632.D
50 =12210633.D 100 =12210634.D =

		Compound	0.5	1	5	25	50	100	Avg	%RSD
58)	T	Toluene	2.029	1.911	1.865	1.857	1.796	1.701	1.860	5.92
59)	T	2-Hexanone	0.985	1.010	1.028	1.029	0.994	0.930	0.996	3.68
60)	T	Dibromochlorometh	0.473	0.473	0.476	0.496	0.484	0.468	0.478	2.10
61)	T	1,2-Dibromoethane	0.530	0.504	0.512	0.528	0.510	0.492	0.513	2.83
62)	T	Butyl Acetate	1.023	1.067	1.091	1.134	1.113	1.046	1.079	3.86
63)	T	n-Octane	0.394	0.370	0.374	0.382	0.369	0.344	0.372	4.52
64)	T	Tetrachloroethene	0.477	0.434	0.422	0.427	0.412	0.402	0.429	6.08
65)	T	Chlorobenzene	1.334	1.278	1.199	1.227	1.186	1.131	1.226	5.86
66)	T	Ethylbenzene	2.241	2.186	2.180	2.215	2.123	2.002	2.158	3.99
67)	T	m- & p-Xylene	1.468	1.428	1.421	1.438	1.365	1.272	1.399	5.05
68)	T	Bromoform	0.290	0.305	0.302	0.325	0.313	0.301	0.306	3.96
69)	T	Styrene	1.280	1.272	1.296	1.359	1.302	1.221	1.288	3.47
70)	T	o-Xylene	1.570	1.558	1.539	1.570	1.482	1.380	1.517	4.93
71)	T	n-Nonane	0.894	0.881	0.879	0.919	0.866	0.802	0.874	4.49
72)	T	1,1,2,2-Tetrachlo	0.735	0.726	0.733	0.756	0.719	0.680	0.725	3.47
73)	S	Bromofluorobenzen	0.685	0.683	0.681	0.687	0.672	0.658	0.678	1.63
74)	T	Cumene	2.092	1.970	1.928	2.042	1.925	1.799	1.959	5.24
75)	T	alpha-Pinene	1.000	1.008	1.019	1.074	1.034	0.978	1.019	3.20
76)	T	n-Propylbenzene	2.645	2.589	2.588	2.753	2.577	2.371	2.587	4.82
77)	T	3-Ethyltoluene	2.139	2.085	2.124	2.264	2.079	2.020	2.119	3.89
78)	T	4-Ethyltoluene	2.096	2.076	2.048	2.068	1.973	1.763	2.004	6.27
79)	T	1,3,5-Trimethylbe	1.813	1.784	1.776	1.822	1.707	1.589	1.749	5.04
80)	T	alpha-Methylstyre	0.837	0.838	0.893	1.019	0.965	0.910	0.910	7.86
81)	T	2-Ethyltoluene	2.258	2.180	2.156	2.269	2.115	1.966	2.157	5.13
82)	T	1,2,4-Trimethylbe	1.807	1.777	1.800	1.826	1.689	1.580	1.747	5.42
83)	T	n-Decane	0.967	0.973	0.949	1.013	0.932	0.854	0.948	5.67
84)	T	Benzyl Chloride	1.570	1.609	1.687	1.785	1.683	1.559	1.649	5.21
85)	T	1,3-Dichlorobenze	0.990	0.957	0.964	0.978	0.930	0.866	0.947	4.72
86)	T	1,4-Dichlorobenze	0.973	0.957	0.929	0.955	0.894	0.835	0.924	5.57
87)	T	sec-Butylbenzene	2.368	2.349	2.313	2.432	2.253	2.058	2.296	5.69
88)	T	p-Isopropyltoluen	1.898	1.854	1.847	1.976	1.824	1.655	1.842	5.77
89)	T	1,2,3-Trimethylbe	1.703	1.665	1.664	1.783	1.640	1.528	1.664	5.00
90)	T	1,2-Dichlorobenze	0.944	0.932	0.913	0.915	0.859	0.780	0.891	6.92
91)	T	d-Limonene	0.645	0.655	0.687	0.778	0.718	0.661	0.691	7.27
92)	T	1,2-Dibromo-3-Chl	0.241	0.247	0.286	0.339	0.319	0.300	0.289	13.49
93)	T	n-Undecane	0.761	0.789	0.797	0.890	0.807	0.755	0.800	6.08
94)	T	1,2,4-Trichlorobe	0.154	0.166	0.180	0.189	0.179	0.171	0.173	7.15
95)	T	Naphthalene	1.498	1.709	1.878	2.227	2.084	1.980	1.896	13.87
96)	T	n-Dodecane	0.499	0.567	0.553	0.566	0.534	0.514	0.539	5.23
97)	T	Hexachloro-1,3-bu	0.265	0.284	0.292	0.308	0.294	0.280	0.287	5.10

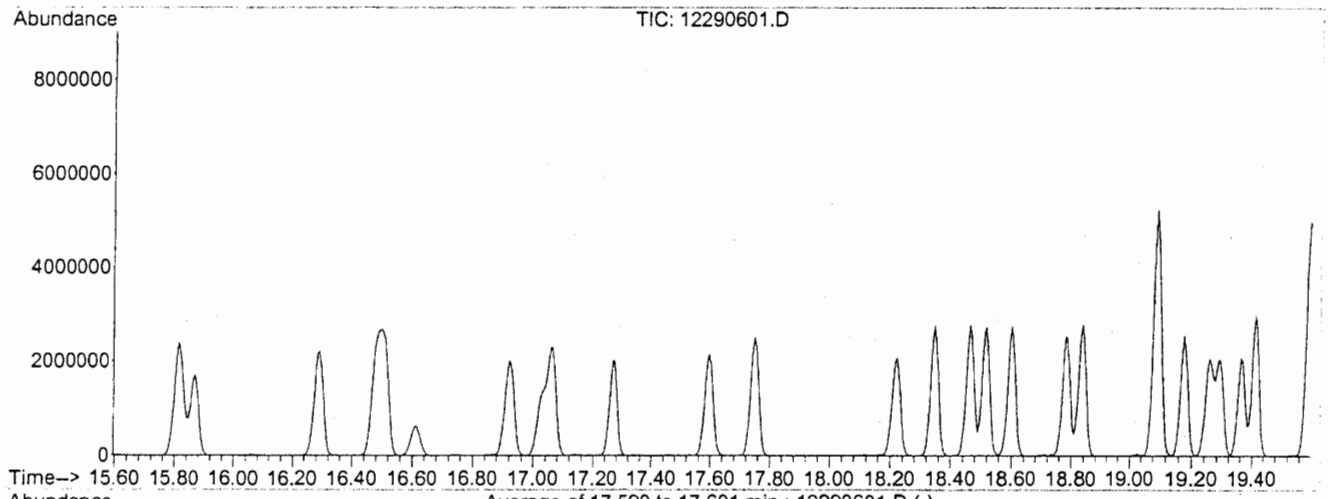
(#) = Out of Range

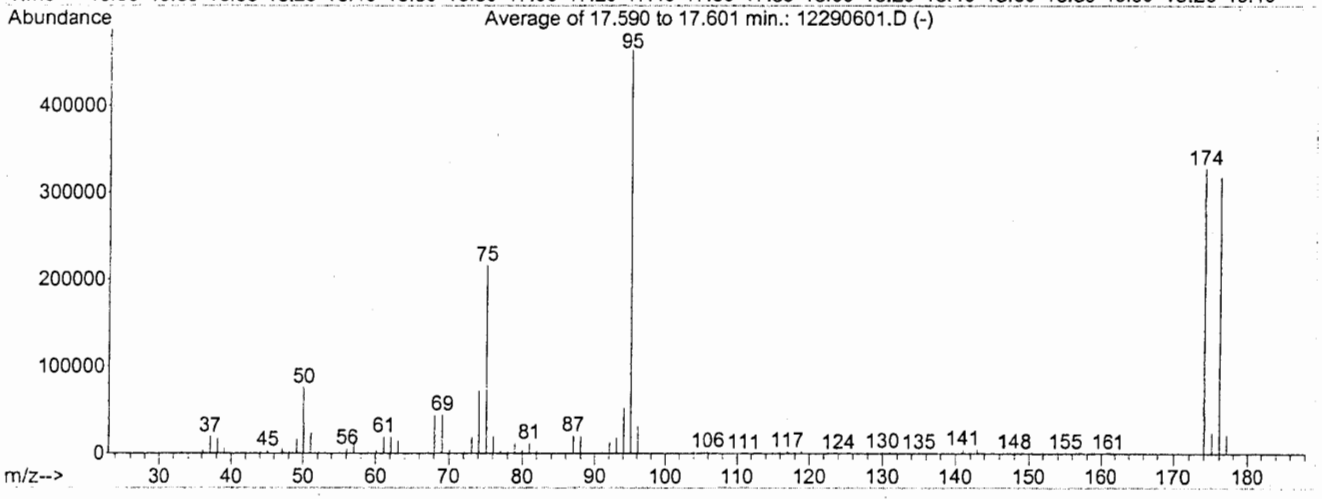
BFB

Data Path : J:\MS08\Data\2006_012\29\
Data File : 12290601.D
Acq On : 29 Dec 2006 10:00
Operator : AB
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2488

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.3	75653	PASS
75	95	30	66	46.4	215722	PASS
95	95	100	100	100.0	464810	PASS
96	95	5	9	6.5	30418	PASS
173	174	0.00	2	0.3	864	PASS
174	95	50	120	70.4	327402	PASS
175	174	4	9	7.2	23466	PASS
176	174	93	101	96.9	317376	PASS
177	176	5	9	6.6	21053	PASS

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\29\
Data File : 12290601.D
Acq On : 29 Dec 2006 10:00
Operator : AB
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 10:26:16 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

all OK for Targets

%D ≤ 30%
RRFs ≥ 0.05

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	129	0.00
2	T	Propene	1.169	0.953	18.5	131	0.00
3	T	Dichlorodifluoromethane	2.358	2.124	9.9	126	0.00
4	T	Chloromethane	1.843	1.755	4.8	126	0.00
5	T	Freon 114	0.648	0.538	17.0	118	0.00
6	T	Vinyl Chloride	1.231	0.928	24.6	114	0.00
7	T	1,3-Butadiene	1.005	0.818	18.6	115	0.00
8	T	Bromomethane	0.998	0.948	5.0	136	0.00
9	T	Chloroethane	0.905	0.811	10.4	127	0.00
10	T	Ethanol	0.732	0.793	-8.3	127	0.00
11	T	Acetonitrile	2.094	1.980	5.4	123	0.00
12	T	Acrolein	0.692	0.668	3.5	125	0.00
13	T	Acetone	1.080	0.905	16.2	129	0.00
14	T	Trichlorofluoromethane	1.604	1.514	5.6	126	0.00
15	T	Isopropanol	2.831	2.715	4.1	118	0.00
16	T	Acrylonitrile	1.459	1.438	1.4	125	0.00
17	T	1,1-Dichloroethene	1.078	1.062	1.5	129	0.00
18	T	tert-Butanol	2.590	2.286	11.7	119	0.00
19	T	Methylene Chloride	1.226	1.144	6.7	126	0.00
20	T	Allyl Chloride	1.450	1.522	-5.0	127	0.00
21	T	Trichlorotrifluoroethane	0.684	0.559	18.3	130	0.00
22	T	Carbon Disulfide	4.601	4.111	10.6	125	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.634	2.8	130	0.00
24	T	1,1-Dichloroethane	1.718	1.621	5.6	124	0.00
25	T	Methyl tert-Butyl Ether	2.911	2.472	15.1	122	0.00
26	T	Vinyl Acetate	0.246	0.224	8.9	121	0.00
27	T	2-Butanone	0.761	0.703	7.6	119	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.483	5.1	126	0.00
29	T	Diisopropyl Ether	0.824	0.718	12.9	121	0.00
30	T	Ethyl Acetate	0.373	0.333	10.7	117	0.00
31	T	n-Hexane	1.550	1.211	21.9	117	0.00
32	T	Chloroform	1.712	1.503	12.2	116	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.662	6.8	121	0.00
34	T	Tetrahydrofuran	0.741	0.676	8.8	118	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.064	12.3	119	0.00
36	T	1,2-Dichloroethane	1.531	1.399	8.6	121	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	126	0.00
38	T	1,1,1-Trichloroethane	0.377	0.360	4.5	122	0.00
39	T	Isopropyl Acetate	0.152	0.151	0.7	119	0.00
40	T	1-Butanol	0.180	0.198	-10.0	115	0.00
41	T	Benzene	0.972	0.913	6.1	122	0.00
42	T	Carbon Tetrachloride	0.318	0.309	2.8	123	0.00
43	T	Cyclohexane	0.355	0.322	9.3	122	0.00
44	T	tert-Amyl Methyl Ether	0.666	0.636	4.5	119	0.00
45	T	1,2-Dichloropropane	0.246	0.235	4.5	120	0.00
46	T	Bromodichloromethane	0.332	0.329	0.9	120	0.00
47	T	Trichloroethene	0.230	0.224	2.6	123	0.00
48	T	1,4-Dioxane	0.187	0.189	-1.1	118	0.00
49	T	Isooctane	0.890	0.815	8.4	117	0.00
50	T	Methyl Methacrylate	0.095	0.099	-4.2	121	0.00
51	T	n-Heptane	0.233	0.216	7.3	119	0.00

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\29\
Data File : 12290601.D
Acq On : 29 Dec 2006 10:00
Operator : AB
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 10:26:16 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.405	1.2	120	0.00
53	T	4-Methyl-2-pentanone	0.218	0.211	3.2	117	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.374	0.8	119	-0.01
55	T	1,1,2-Trichloroethane	0.243	0.237	2.5	121	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	125	0.00
57	S	Toluene-d8 (SS2)	1.986	1.963	1.2	124	0.00
58	T	Toluene	1.860	1.803	3.1	121	0.00
59	T	2-Hexanone	0.996	0.954	4.2	115	0.00
60	T	Dibromochloromethane	0.478	0.481	-0.6	121	0.00
61	T	1,2-Dibromoethane	0.513	0.506	1.4	119	0.00
62	T	Butyl Acetate	1.079	1.057	2.0	116	0.00
63	T	n-Octane	0.372	0.369	0.8	120	0.00
64	T	Tetrachloroethene	0.429	0.416	3.0	122	-0.01
65	T	Chlorobenzene	1.226	1.188	3.1	121	0.00
66	T	Ethylbenzene	2.158	2.134	1.1	120	0.00
67	T	m- & p-Xylene	1.399	1.378	1.5	119	0.00
68	T	Bromoform	0.306	0.316	-3.3	121	0.00
69	T	Styrene	1.288	1.312	-1.9	120	0.00
70	T	o-Xylene	1.517	1.500	1.1	119	0.00
71	T	n-Nonane	0.874	0.863	1.3	117	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.719	0.8	118	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.696	-2.7	126	0.00
74	T	Cumene	1.959	1.949	0.5	119	0.00
75	T	alpha-Pinene	1.019	1.016	0.3	118	0.00
76	T	n-Propylbenzene	2.587	2.603	-0.6	118	0.00
77	T	3-Ethyltoluene	2.119	2.142	-1.1	118	0.00
78	T	4-Ethyltoluene	2.004	1.992	0.6	120	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.748	0.1	119	0.00
80	T	alpha-Methylstyrene	0.910	0.965	-6.0	118	0.00
81	T	2-Ethyltoluene	2.157	2.162	-0.2	119	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.727	1.1	118	0.00
83	T	n-Decane	0.948	0.953	-0.5	117	0.00
84	T	Benzyl Chloride	1.649	1.676	-1.6	117	0.00
85	T	1,3-Dichlorobenzene	0.947	0.948	-0.1	121	0.00
86	T	1,4-Dichlorobenzene	0.924	0.914	1.1	119	0.00
87	T	sec-Butylbenzene	2.296	2.310	-0.6	118	0.00
88	T	p-Isopropyltoluene	1.842	1.871	-1.6	118	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.682	-1.1	118	0.00
90	T	1,2-Dichlorobenzene	0.891	0.876	1.7	119	0.00
91	T	d-Limonene	0.691	0.721	-4.3	115	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.327	-13.1	120	0.00
93	T	n-Undecane	0.800	0.854	-6.7	119	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.194	-12.1	128	0.00
95	T	Naphthalene	1.896	2.281	-20.3	128	0.00
96	T	n-Dodecane	0.539	0.627	-16.3	138	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.313	-9.1	126	0.00

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

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\29\
Data File : 12290605.D
Acq On : 29 Dec 2006 12:56
Operator : AB
Sample : 1ng TO-15 CRQL check STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 13:26:30 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

all OK for Targets

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	115	-0.02
2	T	Propene	1.169	1.235	-5.6	100	0.02
3	T	Dichlorodifluoromethane	2.358	2.464	-4.5	108	0.02
4	T	Chloromethane	1.843	1.791	2.8	104	0.01
5	T	Freon 114	0.648	0.867	-33.8#	130	0.02 NTC
6	T	Vinyl Chloride	1.231	1.262	-2.5	96	0.01
7	T	1,3-Butadiene	1.005	1.030	-2.5	103	0.00
8	T	Bromomethane	0.998	1.043	-4.5	110	0.00
9	T	Chloroethane	0.905	0.872	3.6	98	0.00
10	T	Ethanol	0.732	0.695	5.1	128	-0.03
11	T	Acetonitrile	2.094	2.006	4.2	105	0.00
12	T	Acrolein	0.692	0.650	6.1	109	0.00
13	T	Acetone	1.080	1.224	-13.3	118	0.00
14	T	Trichlorofluoromethane	1.604	1.710	-6.6	118	0.00
15	T	Isopropanol	2.831	3.013	-6.4	109	-0.02
16	T	Acrylonitrile	1.459	1.352	7.3	108	0.00
17	T	1,1-Dichloroethene	1.078	1.050	2.6	110	0.00
18	T	tert-Butanol	2.590	2.884	-11.4	110	0.00
19	T	Methylene Chloride	1.226	1.262	-2.9	110	0.00
20	T	Allyl Chloride	1.450	1.274	12.1	112	0.00
21	T	Trichlorotrifluoroethane	0.684	0.635	7.2	91	0.00
22	T	Carbon Disulfide	4.601	4.556	1.0	105	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.528	9.1	100	-0.02
24	T	1,1-Dichloroethane	1.718	1.895	-10.3	122	-0.02
25	T	Methyl tert-Butyl Ether	2.911	2.863	1.6	98	0.00
26	T	Vinyl Acetate	0.246	0.228	7.3	99	-0.01
27	T	2-Butanone	0.761	0.730	4.1	110	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.384	11.4	100	-0.02
29	T	Diisopropyl Ether	0.824	0.790	4.1	100	0.00
30	T	Ethyl Acetate	0.373	0.347	7.0	98	-0.01
31	T	n-Hexane	1.550	1.493	3.7	93	0.00
32	T	Chloroform	1.712	1.742	-1.8	104	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.736	2.6	106	-0.01
34	T	Tetrahydrofuran	0.741	0.680	8.2	99	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.156	4.7	101	0.00
36	T	1,2-Dichloroethane	1.531	1.410	7.9	100	-0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	109	-0.01
38	T	1,1,1-Trichloroethane	0.377	0.359	4.8	99	-0.02
39	T	Isopropyl Acetate	0.152	0.146	3.9	107	0.00
40	T	1-Butanol	0.180	0.170	5.6	124	0.01
41	T	Benzene	0.972	0.966	0.6	102	0.00
42	T	Carbon Tetrachloride	0.318	0.291	8.5	98	-0.02
43	T	Cyclohexane	0.355	0.348	2.0	96	-0.01
44	T	tert-Amyl Methyl Ether	0.666	0.639	4.1	101	0.00
45	T	1,2-Dichloropropane	0.246	0.231	6.1	103	-0.01
46	T	Bromodichloromethane	0.332	0.310	6.6	103	-0.01
47	T	Trichloroethene	0.230	0.226	1.7	105	0.00
48	T	1,4-Dioxane	0.187	0.183	2.1	110	0.00
49	T	Isooctane	0.890	0.860	3.4	99	0.00
50	T	Methyl Methacrylate	0.095	0.090	5.3	112	0.00
51	T	n-Heptane	0.233	0.223	4.3	99	0.00

12/29/06

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2006_012\29\
Data File : 12290605.D
Acq On : 29 Dec 2006 12:56
Operator : AB
Sample : 1ng TO-15 CRQL check STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 29 13:26:30 2006
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.395	3.7	106	0.00
53	T	4-Methyl-2-pentanone	0.218	0.213	2.3	105	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.351	6.9	103	-0.01
55	T	1,1,2-Trichloroethane	0.243	0.238	2.1	104	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	110	0.00
57	S	Toluene-d8 (SS2)	1.986	2.004	-0.9	111	0.00
58	T	Toluene	1.860	1.860	0.0	107	-0.01
59	T	2-Hexanone	0.996	0.959	3.7	104	0.00
60	T	Dibromochloromethane	0.478	0.456	4.6	106	-0.01
61	T	1,2-Dibromoethane	0.513	0.483	5.8	105	0.00
62	T	Butyl Acetate	1.079	0.979	9.3	101	0.00
63	T	n-Octane	0.372	0.363	2.4	107	0.00
64	T	Tetrachloroethene	0.429	0.416	3.0	105	-0.01
65	T	Chlorobenzene	1.226	1.210	1.3	104	-0.01
66	T	Ethylbenzene	2.158	2.122	1.7	106	-0.01
67	T	m- & p-Xylene	1.399	1.391	0.6	107	-0.02
68	T	Bromoform	0.306	0.284	7.2	102	0.00
69	T	Styrene	1.288	1.219	5.4	105	0.00
70	T	o-Xylene	1.517	1.526	-0.6	107	-0.01
71	T	n-Nonane	0.874	0.832	4.8	104	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.702	3.2	106	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.699	-3.1	112	0.00
74	T	Cumene	1.959	1.985	-1.3	110	0.00
75	T	alpha-Pinene	1.019	0.958	6.0	104	0.00
76	T	n-Propylbenzene	2.587	2.513	2.9	106	0.00
77	T	3-Ethyltoluene	2.119	2.112	0.3	111	-0.01
78	T	4-Ethyltoluene	2.004	1.986	0.9	105	-0.01
79	T	1,3,5-Trimethylbenzene	1.749	1.774	-1.4	109	0.00
80	T	alpha-Methylstyrene	0.910	0.814	10.5	106	0.00
81	T	2-Ethyltoluene	2.157	2.091	3.1	105	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.781	-1.9	110	-0.01
83	T	n-Decane	0.948	0.906	4.4	102	0.00
84	T	Benzyl Chloride	1.649	1.592	3.5	108	0.00
85	T	1,3-Dichlorobenzene	0.947	0.959	-1.3	110	0.00
86	T	1,4-Dichlorobenzene	0.924	0.937	-1.4	107	0.00
87	T	sec-Butylbenzene	2.296	2.249	2.0	105	0.00
88	T	p-Isopropyltoluene	1.842	1.820	1.2	108	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.626	2.3	107	0.00
90	T	1,2-Dichlorobenzene	0.891	0.886	0.6	104	0.00
91	T	d-Limonene	0.691	0.620	10.3	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.242	16.3	108	0.00
93	T	n-Undecane	0.800	0.771	3.6	107	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.179	-3.5	118	0.00
95	T	Naphthalene	1.896	1.814	4.3	116	0.00
96	T	n-Dodecane	0.539	0.628	-16.5	121	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.275	4.2	106	0.00

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\29\
Data File : 12290617.D
Acq On : 29 Dec 2006 21:19
Operator : AB
Sample : 25ng TO-15 CCV std (Closing)
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 05 09:43:17 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	111	0.00	
2	T	Propene	1.169	0.813	30.5#	96	0.00	NTC
3	T	Dichlorodifluoromethane	2.358	1.982	15.9	100	0.00	
4	T	Chloromethane	1.843	1.603	13.0	98	0.00	
5	T	Freon 114	0.648	0.552	14.8	103	0.00	
6	T	Vinyl Chloride	1.231	0.924	24.9	97	0.00	
7	T	1,3-Butadiene	1.005	0.819	18.5	98	0.00	
8	T	Bromomethane	0.998	0.816	18.2	100	0.00	
9	T	Chloroethane	0.905	0.748	17.3	100	0.00	
10	T	Ethanol	0.732	0.746	-1.9	102	0.00	
11	T	Acetonitrile	2.094	1.842	12.0	98	0.00	
12	T	Acrolein	0.692	0.621	10.3	99	0.00	
13	T	Acetone	1.080	0.845	21.8	103	0.00	
14	T	Trichlorofluoromethane	1.604	1.446	9.9	103	0.00	
15	T	Isopropanol	2.831	2.658	6.1	99	0.00	
16	T	Acrylonitrile	1.459	1.356	7.1	101	0.00	
17	T	1,1-Dichloroethene	1.078	1.000	7.2	103	0.00	
18	T	tert-Butanol	2.590	2.301	11.2	102	0.00	
19	T	Methylene Chloride	1.226	1.088	11.3	102	0.00	
20	T	Allyl Chloride	1.450	1.406	3.0	100	0.00	
21	T	Trichlorotrifluoroethane	0.684	0.453	33.8#	90	0.00	(+) only
22	T	Carbon Disulfide	4.601	3.883	15.6	101	0.00	
23	T	trans-1,2-Dichloroethene	1.681	1.420	15.5	96	0.00	
24	T	1,1-Dichloroethane	1.718	1.572	8.5	103	0.00	
25	T	Methyl tert-Butyl Ether	2.911	2.300	21.0	97	0.00	
26	T	Vinyl Acetate	0.246	0.219	11.0	102	0.00	
27	T	2-Butanone	0.761	0.700	8.0	102	0.00	
28	T	cis-1,2-Dichloroethene	1.562	1.391	10.9	101	0.00	
29	T	Diisopropyl Ether	0.824	0.678	17.7	97	0.00	
30	T	Ethyl Acetate	0.373	0.337	9.7	101	0.00	
31	T	n-Hexane	1.550	1.133	26.9	94	0.00	
32	T	Chloroform	1.712	1.574	8.1	104	0.00	
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.703	4.5	106	0.00	
34	T	Tetrahydrofuran	0.741	0.661	10.8	99	0.00	
35	T	Ethyl tert-Butyl Ether	1.213	1.027	15.3	98	0.00	
36	T	1,2-Dichloroethane	1.531	1.309	14.5	97	0.00	
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	108	0.00	
38	T	1,1,1-Trichloroethane	0.377	0.333	11.7	97	0.00	
39	T	Isopropyl Acetate	0.152	0.146	3.9	99	0.00	
40	T	1-Butanol	0.180	0.196	-8.9	98	0.00	
41	T	Benzene	0.972	0.861	11.4	99	0.00	
42	T	Carbon Tetrachloride	0.318	0.282	11.3	96	0.00	
43	T	Cyclohexane	0.355	0.296	16.6	97	0.00	
44	T	tert-Amyl Methyl Ether	0.666	0.618	7.2	100	0.00	
45	T	1,2-Dichloropropane	0.246	0.226	8.1	99	0.00	
46	T	Bromodichloromethane	0.332	0.316	4.8	100	0.00	
47	T	Trichloroethene	0.230	0.213	7.4	101	0.00	
48	T	1,4-Dioxane	0.187	0.188	-0.5	101	0.00	
49	T	Isooctane	0.890	0.780	12.4	97	0.00	
50	T	Methyl Methacrylate	0.095	0.097	-2.1	102	0.00	
51	T	n-Heptane	0.233	0.207	11.2	99	0.00	

cm 1/05/07

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\DATA\2006_012\29\
Data File : 12290617.D
Acq On : 29 Dec 2006 21:19
Operator : AB
Sample : 25ng TO-15 CCV std (Closing)
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 05 09:43:17 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.397	3.2	101	0.00
53	T	4-Methyl-2-pentanone	0.218	0.208	4.6	99	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.370	1.9	101	0.00
55	T	1,1,2-Trichloroethane	0.243	0.232	4.5	102	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	110	0.00
57	S	Toluene-d8 (SS2)	1.986	1.954	1.6	109	0.00
58	T	Toluene	1.860	1.713	7.9	101	0.00
59	T	2-Hexanone	0.996	0.917	7.9	98	0.00
60	T	Dibromochloromethane	0.478	0.458	4.2	102	0.00
61	T	1,2-Dibromoethane	0.513	0.488	4.9	102	0.00
62	T	Butyl Acetate	1.079	1.029	4.6	100	0.00
63	T	n-Octane	0.372	0.354	4.8	102	0.00
64	T	Tetrachloroethene	0.429	0.391	8.9	101	0.00
65	T	Chlorobenzene	1.226	1.151	6.1	103	0.00
66	T	Ethylbenzene	2.158	2.085	3.4	103	0.00
67	T	m- & p-Xylene	1.399	1.348	3.6	103	0.00
68	T	Bromoform	0.306	0.305	0.3	103	0.00
69	T	Styrene	1.288	1.288	0.0	104	0.00
70	T	o-Xylene	1.517	1.465	3.4	103	0.00
71	T	n-Nonane	0.874	0.845	3.3	101	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.699	3.6	102	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.703	-3.7	112	0.00
74	T	Cumene	1.959	1.919	2.0	103	0.00
75	T	alpha-Pinene	1.019	0.995	2.4	102	0.00
76	T	n-Propylbenzene	2.587	2.547	1.5	102	0.00
77	T	3-Ethyltoluene	2.119	2.139	-0.9	104	0.00
78	T	4-Ethyltoluene	2.004	1.919	4.2	102	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.710	2.2	103	0.00
80	T	alpha-Methylstyrene	0.910	0.952	-4.6	103	0.00
81	T	2-Ethyltoluene	2.157	2.125	1.5	103	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.710	2.1	103	0.00
83	T	n-Decane	0.948	0.925	2.4	100	0.00
84	T	Benzyl Chloride	1.649	1.657	-0.5	102	0.00
85	T	1,3-Dichlorobenzene	0.947	0.923	2.5	104	0.00
86	T	1,4-Dichlorobenzene	0.924	0.903	2.3	104	0.00
87	T	sec-Butylbenzene	2.296	2.288	0.3	103	0.00
88	T	p-Isopropyltoluene	1.842	1.855	-0.7	103	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.669	-0.3	103	0.00
90	T	1,2-Dichlorobenzene	0.891	0.859	3.6	103	0.00
91	T	d-Limonene	0.691	0.709	-2.6	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.316	-9.3	102	0.00
93	T	n-Undecane	0.800	0.786	1.8	97	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.183	-5.8	106	0.00
95	T	Naphthalene	1.896	2.119	-11.8	105	0.00
96	T	n-Dodecane	0.539	0.580	-7.6	113	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.296	-3.1	106	0.00

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

LM 1/05/07

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603530

Internal Standard Area and RT Summary

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

Lab File ID: 12290601.D
Date Analyzed: 12/29/06
Time Analyzed: 10:00

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	430084	9.06	1832991	11.00	990808	15.81
	Upper Limit	602118	9.39	2566187	11.33	1387131	16.14
	Lower Limit	258050	8.73	1099795	10.67	594485	15.48
	Client Sample ID						
01	Method Blank	391769	9.04	1890011	10.98	984938	15.81
02	Lab Control Sample	391640	9.07	1653545	11.00	904211	15.82
03	Duplicate Lab Control Sample	391020	9.07	1693815	11.00	910853	15.82
04	WDI-VW-61-S-12-20-06	384236	9.05	1811442	10.98	943949	15.81
05	WDI-VW-51-I-12-21-06	367874	9.06	1697952	10.99	972108	15.82
06	WDI-VW-51-I-12-21-06 (Lab Duplicate)	373756	9.05	1740173	10.99	986160	15.82
07	WDI-VW-61-I-12-20-06	337297	9.05	1204792	10.98	789151	15.81
08	WDI-VW-61-D-12-20-06	368444	9.05	1757351	10.98	910783	15.81
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.

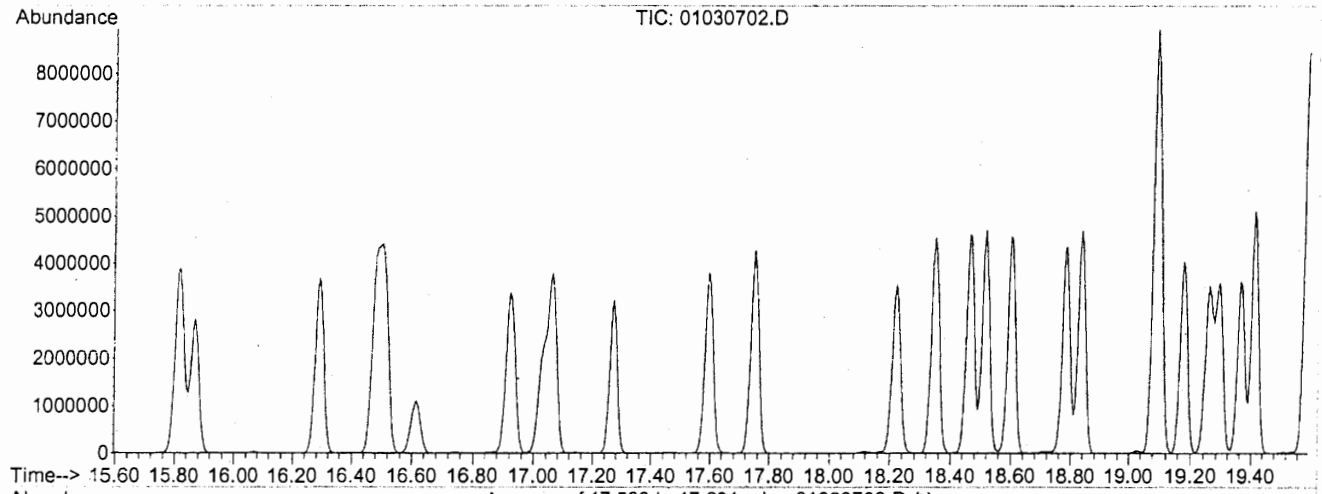
Verified by: MJ Date: 1/10/07

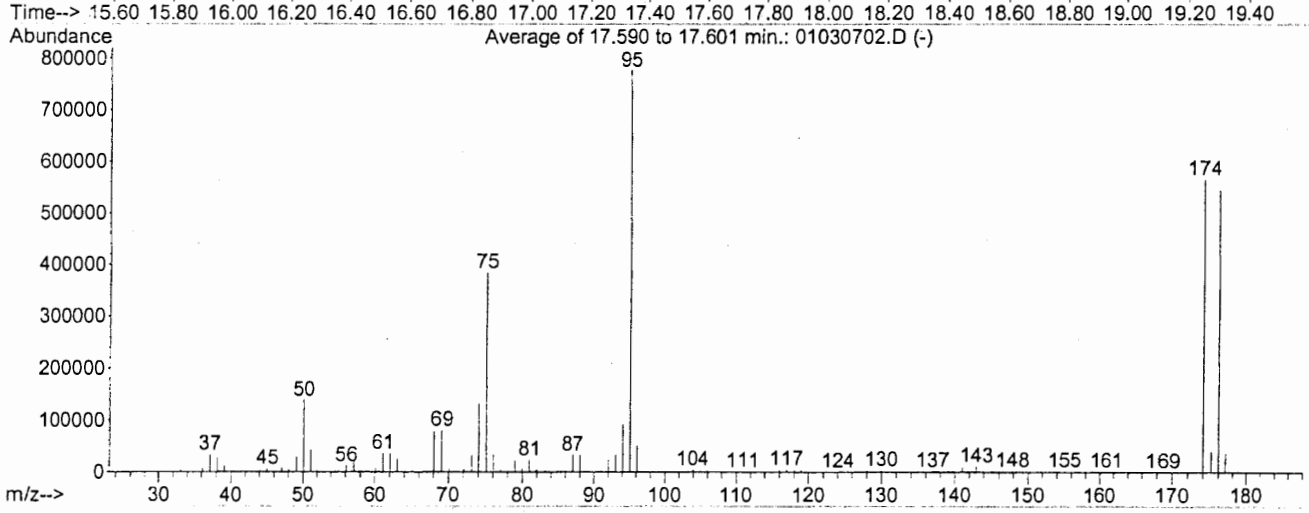
BFB

Data Path : J:\MS08\Data\2007_01\03\
Data File : 01030702.D
Acq On : 3 Jan 2007 10:15
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8122206.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006





AutoFind: Scans 2499, 2500, 2501; Background Corrected with Scan 2488

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.6	137525	PASS
75	95	30	66	49.3	384469	PASS
95	95	100	100	100.0	780629	PASS
96	95	5	9	6.6	51306	PASS
173	174	0.00	2	0.2	1171	PASS
174	95	50	120	72.5	565632	PASS
175	174	4	9	7.3	41058	PASS
176	174	93	101	96.4	545066	PASS
177	176	5	9	6.7	36701	PASS

LM 1/04/07

152

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2007_01\03\
Data File : 01030702.D
Acq On : 3 Jan 2007 10:15
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 16:52:02 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

all OK for Targets

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	205#	-0.01
2	T	Propene	1.169	0.822	29.7	179	0.00
3	T	Dichlorodifluoromethane	2.358	2.248	4.7	210#	0.00
4	T	Chloromethane	1.843	1.698	7.9	192	0.00
5	T	Freon 114	0.648	0.671	-3.5	232#	0.00
6	T	Vinyl Chloride	1.231	1.037	15.8	202#	0.00
7	T	1,3-Butadiene	1.005	0.887	11.7	197	0.00
8	T	Bromomethane	0.998	0.887	11.1	202#	0.00
9	T	Chloroethane	0.905	0.774	14.5	191	0.00
10	T	Ethanol	0.732	0.720	1.6	182	0.00
11	T	Acetonitrile	2.094	1.814	13.4	178	0.00
12	T	Acrolein	0.692	0.620	10.4	183	0.00
13	T	Acetone	1.080	0.836	22.6	188	0.00
14	T	Trichlorofluoromethane	1.604	1.643	-2.4	216#	0.00
15	T	Isopropanol	2.831	2.542	10.2	175	0.00
16	T	Acrylonitrile	1.459	1.349	7.5	186	0.00
17	T	1,1-Dichloroethene	1.078	1.040	3.5	199	0.00
18	T	tert-Butanol	2.590	2.317	10.5	191	0.00
19	T	Methylene Chloride	1.226	1.118	8.8	195	0.00
20	T	Allyl Chloride	1.450	1.365	5.9	181	0.00
21	T	Trichlorotrifluoroethane	0.684	0.510	25.4	188	0.00
22	T	Carbon Disulfide	4.601	4.018	12.7	194	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.459	13.2	183	-0.01
24	T	1,1-Dichloroethane	1.718	1.630	5.1	197	0.00
25	T	Methyl tert-Butyl Ether	2.911	2.385	18.1	187	0.00
26	T	Vinyl Acetate	0.246	0.213	13.4	183	-0.01
27	T	2-Butanone	0.761	0.679	10.8	183	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.419	9.2	191	0.00
29	T	Diisopropyl Ether	0.824	0.688	16.5	183	0.00
30	T	Ethyl Acetate	0.373	0.318	14.7	176	0.00
31	T	n-Hexane	1.550	1.093	29.5	167	0.00
32	T	Chloroform	1.712	1.676	2.1	204#	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.767	0.9	204#	0.00
34	T	Tetrahydrofuran	0.741	0.634	14.4	175	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.065	12.2	188	0.00
36	T	1,2-Dichloroethane	1.531	1.412	7.8	193	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	195	0.00
38	T	1,1,1-Trichloroethane	0.377	0.372	1.3	196	0.00
39	T	Isopropyl Acetate	0.152	0.143	5.9	176	-0.01
40	T	1-Butanol	0.180	0.187	-3.9	169	0.00
41	T	Benzene	0.972	0.889	8.5	185	0.00
42	T	Carbon Tetrachloride	0.318	0.327	-2.8	202#	0.00
43	T	Cyclohexane	0.355	0.303	14.6	179	0.00
44	T	tert-Amyl Methyl Ether	0.666	0.633	5.0	185	0.00
45	T	1,2-Dichloropropane	0.246	0.228	7.3	180	-0.01
46	T	Bromodichloromethane	0.332	0.342	-3.0	195	0.00
47	T	Trichloroethene	0.230	0.229	0.4	196	0.00
48	T	1,4-Dioxane	0.187	0.188	-0.5	183	-0.01
49	T	Isooctane	0.890	0.777	12.7	174	0.00
50	T	Methyl Methacrylate	0.095	0.099	-4.2	189	0.00
51	T	n-Heptane	0.233	0.212	9.0	182	-0.01

LM 1/04/07

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2007_01\03\
Data File : 01030702.D
Acq On : 3 Jan 2007 10:15
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 16:52:02 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

all ok for %DEV RRF

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	0.410	0.406	1.0	187	0.00
53	T	4-Methyl-2-pentanone	0.218	0.206	5.5	178	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.388	-2.9	192	0.00
55	T	1,1,2-Trichloroethane	0.243	0.245	-0.8	195	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	202#	0.00
57	S	Toluene-d8 (SS2)	1.986	1.915	3.6	196	0.00
58	T	Toluene	1.860	1.764	5.2	192	0.00
59	T	2-Hexanone	0.996	0.885	11.1	174	0.00
60	T	Dibromochloromethane	0.478	0.505	-5.6	206#	0.00
61	T	1,2-Dibromoethane	0.513	0.516	-0.6	198	0.00
62	T	Butyl Acetate	1.079	0.980	9.2	175	0.00
63	T	n-Octane	0.372	0.343	7.8	181	0.00
64	T	Tetrachloroethene	0.429	0.430	-0.2	204#	0.00
65	T	Chlorobenzene	1.226	1.187	3.2	196	0.00
66	T	Ethylbenzene	2.158	2.154	0.2	197	0.00
67	T	m- & p-Xylene	1.399	1.393	0.4	196	0.00
68	T	Bromoform	0.306	0.338	-10.5	210#	0.00
69	T	Styrene	1.288	1.320	-2.5	196	0.00
70	T	o-Xylene	1.517	1.523	-0.4	196	0.00
71	T	n-Nonane	0.874	0.792	9.4	174	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.710	2.1	190	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.745	-9.9	219#	0.00
74	T	Cumene	1.959	2.006	-2.4	199	0.00
75	T	alpha-Pinene	1.019	1.039	-2.0	196	0.00
76	T	n-Propylbenzene	2.587	2.659	-2.8	195	0.00
77	T	3-Ethyltoluene	2.119	2.208	-4.2	197	0.00
78	T	4-Ethyltoluene	2.004	2.071	-3.3	202#	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.824	-4.3	202#	0.00
80	T	alpha-Methylstyrene	0.910	1.002	-10.1	199	0.00
81	T	2-Ethyltoluene	2.157	2.249	-4.3	200#	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.808	-3.5	200#	0.00
83	T	n-Decane	0.948	0.909	4.1	181	0.00
84	T	Benzyl Chloride	1.649	1.738	-5.4	197	0.00
85	T	1,3-Dichlorobenzene	0.947	1.009	-6.5	209#	0.00
86	T	1,4-Dichlorobenzene	0.924	0.996	-7.8	211#	0.00
87	T	sec-Butylbenzene	2.296	2.403	-4.7	200	0.00
88	T	p-Isopropyltoluene	1.842	1.958	-6.3	200#	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.772	-6.5	201#	0.00
90	T	1,2-Dichlorobenzene	0.891	0.937	-5.2	207#	0.00
91	T	d-Limonene	0.691	0.710	-2.7	185	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.354	-22.5	211#	0.00
93	T	n-Undecane	0.800	0.792	1.0	180	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.205	-18.5	219#	0.00
95	T	Naphthalene	1.896	2.314	-22.0	210#	0.00
96	T	n-Dodecane	0.539	0.565	-4.8	202#	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.341	-18.8	224#	0.00

LM 1/04/07

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

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2007_01\03\
Data File : 01030704.D
Acq On : 3 Jan 2007 12:21
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 16:05:06 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	220#	-0.02
2	T	Propene	1.169	1.131	3.3	174	0.01
3	T	Dichlorodifluoromethane	2.358	2.616	-10.9	219#	0.02
4	T	Chloromethane	1.843	1.777	3.6	197	0.01
5	T	Freon 114	0.648	0.841	-29.8	240#	0.01
6	T	Vinyl Chloride	1.231	1.349	-9.6	196	0.01
7	T	1,3-Butadiene	1.005	1.016	-1.1	195	0.00
8	T	Bromomethane	0.998	1.064	-6.6	214#	0.00
9	T	Chloroethane	0.905	0.887	2.0	191	0.00
10	T	Ethanol	0.732	0.663	9.4	233#	-0.02
11	T	Acetonitrile	2.094	1.846	11.8	184	0.00
12	T	Acrolein	0.692	0.637	7.9	204#	0.01
13	T	Acetone	1.080	1.310	-21.3	242#	0.00
14	T	Trichlorofluoromethane	1.604	1.780	-11.0	234#	0.00
15	T	Isopropanol	2.831	2.714	4.1	188	-0.02
16	T	Acrylonitrile	1.459	1.275	12.6	194	-0.01
17	T	1,1-Dichloroethene	1.078	1.030	4.5	207#	0.00
18	T	tert-Butanol	2.590	2.787	-7.6	203#	0.00
19	T	Methylene Chloride	1.226	1.251	-2.0	209#	-0.01
20	T	Allyl Chloride	1.450	1.116	23.0	188	0.00
21	T	Trichlorotrifluoroethane	0.684	0.731	-6.9	200#	0.00
22	T	Carbon Disulfide	4.601	4.629	-0.6	203#	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.482	11.8	185	-0.02
24	T	1,1-Dichloroethane	1.718	1.829	-6.5	224#	-0.02
25	T	Methyl tert-Butyl Ether	2.911	2.923	-0.4	191	0.00
26	T	Vinyl Acetate	0.246	0.230	6.5	191	0.00
27	T	2-Butanone	0.761	0.741	2.6	213#	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.410	9.7	194	-0.02
29	T	Diisopropyl Ether	0.824	0.774	6.1	187	0.00
30	T	Ethyl Acetate	0.373	0.347	7.0	188	0.00
31	T	n-Hexane	1.550	1.494	3.6	178	0.00
32	T	Chloroform	1.712	1.793	-4.7	205#	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.798	-0.8	209#	-0.02
34	T	Tetrahydrofuran	0.741	0.663	10.5	183	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.171	3.5	195	-0.01
36	T	1,2-Dichloroethane	1.531	1.470	4.0	199	-0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	206#	-0.01
38	T	1,1,1-Trichloroethane	0.377	0.387	-2.7	202#	-0.02
39	T	Isopropyl Acetate	0.152	0.139	8.6	193	-0.02
40	T	1-Butanol	0.180	0.143	20.6	198	0.00
41	T	Benzene	0.972	0.959	1.3	191	-0.01
42	T	Carbon Tetrachloride	0.318	0.319	-0.3	202#	-0.01
43	T	Cyclohexane	0.355	0.358	-0.8	185	0.00
44	T	tert-Amyl Methyl Ether	0.666	0.643	3.5	191	0.00
45	T	1,2-Dichloropropane	0.246	0.230	6.5	192	-0.01
46	T	Bromodichloromethane	0.332	0.329	0.9	205#	-0.02
47	T	Trichloroethene	0.230	0.238	-3.5	209#	-0.01
48	T	1,4-Dioxane	0.187	0.180	3.7	205#	0.00
49	T	Isooctane	0.890	0.844	5.2	183	-0.01
50	T	Methyl Methacrylate	0.095	0.084	11.6	196	0.00
51	T	n-Heptane	0.233	0.222	4.7	186	-0.01

1/11/07

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2007_01\03\
Data File : 01030704.D
Acq On : 3 Jan 2007 12:21
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-12190601/S15-12150605
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 16:05:06 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

✓ all ok for Targets

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	0.410	0.389	5.1	196	-0.01
53	T	4-Methyl-2-pentanone	0.218	0.193	11.5	180	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.359	4.8	199	0.00
55	T	1,1,2-Trichloroethane	0.243	0.230	5.3	189	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	208#	0.00
57	S	Toluene-d8 (SS2)	1.986	1.949	1.9	204#	0.00
58	T	Toluene	1.860	1.899	-2.1	206#	0.00
59	T	2-Hexanone	0.996	0.893	10.3	184	0.00
60	T	Dibromochloromethane	0.478	0.481	-0.6	211#	0.00
61	T	1,2-Dibromoethane	0.513	0.487	5.1	201#	0.00
62	T	Butyl Acetate	1.079	0.909	15.8	177	0.00
63	T	n-Octane	0.372	0.346	7.0	194	-0.01
64	T	Tetrachloroethene	0.429	0.450	-4.9	216#	0.00
65	T	Chlorobenzene	1.226	1.239	-1.1	201#	0.00
66	T	Ethylbenzene	2.158	2.170	-0.6	206#	0.00
67	T	m- & p-Xylene	1.399	1.422	-1.6	207#	-0.01
68	T	Bromoform	0.306	0.315	-2.9	214#	-0.01
69	T	Styrene	1.288	1.196	7.1	195	0.00
70	T	o-Xylene	1.517	1.523	-0.4	203#	-0.01
71	T	n-Nonane	0.874	0.778	11.0	183	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.708	2.3	202#	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.738	-8.8	224#	0.00
74	T	Cumene	1.959	1.993	-1.7	210#	0.00
75	T	alpha-Pinene	1.019	0.954	6.4	196	0.00
76	T	n-Propylbenzene	2.587	2.564	0.9	206#	0.00
77	T	3-Ethyltoluene	2.119	2.152	-1.6	214#	0.00
78	T	4-Ethyltoluene	2.004	2.043	-1.9	204#	-0.01
79	T	1,3,5-Trimethylbenzene	1.749	1.801	-3.0	210#	0.00
80	T	alpha-Methylstyrene	0.910	0.825	9.3	204#	0.00
81	T	2-Ethyltoluene	2.157	2.182	-1.2	208#	-0.01
82	T	1,2,4-Trimethylbenzene	1.747	1.831	-4.8	214#	-0.01
83	T	n-Decane	0.948	0.866	8.6	185	-0.01
84	T	Benzyl Chloride	1.649	1.506	8.7	194	0.00
85	T	1,3-Dichlorobenzene	0.947	0.996	-5.2	216#	0.00
86	T	1,4-Dichlorobenzene	0.924	0.966	-4.5	209#	0.00
87	T	sec-Butylbenzene	2.296	2.372	-3.3	210#	0.00
88	T	p-Isopropyltoluene	1.842	1.934	-5.0	217#	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.752	-5.3	219#	0.00
90	T	1,2-Dichlorobenzene	0.891	0.963	-8.1	215#	-0.01
91	T	d-Limonene	0.691	0.601	13.0	191	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.258	10.7	217#	0.00
93	T	n-Undecane	0.800	0.717	10.4	189	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.182	-5.2	228#	0.00
95	T	Naphthalene	1.896	1.863	1.7	226#	0.00
96	T	n-Dodecane	0.539	0.588	-9.1	215#	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.328	-14.3	239#	0.00

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

LM 1/8/07

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2007_01\03\
Data File : 01030717.D
Acq On : 3 Jan 2007 21:36
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 16:07:14 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
Response via : Initial Calibration

all OK for targets

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	244#	0.00
2	T	Propene	1.169	0.733	37.3#	190	0.00 NC
3	T	Dichlorodifluoromethane	2.358	2.157	8.5	240#	0.00
4	T	Chloromethane	1.843	1.471	20.2	199	0.00
5	T	Freon 114	0.648	0.661	-2.0	272#	0.00
6	T	Vinyl Chloride	1.231	1.002	18.6	233#	0.00
7	T	1,3-Butadiene	1.005	0.841	16.3	223#	0.00
8	T	Bromomethane	0.998	0.900	9.8	244#	0.00
9	T	Chloroethane	0.905	0.746	17.6	220#	0.00
10	T	Ethanol	0.732	0.670	8.5	202#	0.00
11	T	Acetonitrile	2.094	1.671	20.2	195	0.00
12	T	Acrolein	0.692	0.593	14.3	209#	0.00
13	T	Acetone	1.080	0.810	25.0	218#	0.00
14	T	Trichlorofluoromethane	1.604	1.664	-3.7	261#	0.00
15	T	Isopropanol	2.831	2.532	10.6	207#	0.00
16	T	Acrylonitrile	1.459	1.299	11.0	213#	0.00
17	T	1,1-Dichloroethene	1.078	1.051	2.5	240#	0.00
18	T	tert-Butanol	2.590	2.351	9.2	231#	0.00
19	T	Methylene Chloride	1.226	1.125	8.2	234#	0.00
20	T	Allyl Chloride	1.450	1.276	12.0	201#	0.00
21	T	Trichlorotrifluoroethane	0.684	0.538	21.3	237#	0.00
22	T	Carbon Disulfide	4.601	3.947	14.2	227#	0.00
23	T	trans-1,2-Dichloroethene	1.681	1.446	14.0	216#	0.00
24	T	1,1-Dichloroethane	1.718	1.585	7.7	228#	0.00
25	T	Methyl tert-Butyl Ether	2.911	2.500	14.1	234#	0.00
26	T	Vinyl Acetate	0.246	0.226	8.1	231#	0.00
27	T	2-Butanone	0.761	0.699	8.1	224#	0.00
28	T	cis-1,2-Dichloroethene	1.562	1.408	9.9	225#	0.00
29	T	Diisopropyl Ether	0.824	0.716	13.1	227#	0.00
30	T	Ethyl Acetate	0.373	0.323	13.4	213#	0.00
31	T	n-Hexane	1.550	1.108	28.5	202#	0.00
32	T	Chloroform	1.712	1.678	2.0	244#	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.783	1.719	3.6	236#	0.00
34	T	Tetrahydrofuran	0.741	0.663	10.5	218#	0.00
35	T	Ethyl tert-Butyl Ether	1.213	1.097	9.6	232#	0.00
36	T	1,2-Dichloroethane	1.531	1.453	5.1	237#	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	234#	0.00
38	T	1,1,1-Trichloroethane	0.377	0.384	-1.9	242#	0.00
39	T	Isopropyl Acetate	0.152	0.145	4.6	214#	0.00
40	T	1-Butanol	0.180	0.189	-5.0	205#	0.00
41	T	Benzene	0.972	0.899	7.5	224#	0.00
42	T	Carbon Tetrachloride	0.318	0.337	-6.0	249#	0.00
43	T	Cyclohexane	0.355	0.314	11.5	222#	0.00
44	T	tert-Amyl Methyl Ether	0.666	0.650	2.4	227#	0.00
45	T	1,2-Dichloropropane	0.246	0.226	8.1	214#	0.00
46	T	Bromodichloromethane	0.332	0.348	-4.8	238#	0.00
47	T	Trichloroethene	0.230	0.243	-5.7	249#	0.00
48	T	1,4-Dioxane	0.187	0.195	-4.3	227#	0.00
49	T	Isooctane	0.890	0.770	13.5	206#	0.00
50	T	Methyl Methacrylate	0.095	0.106	-11.6	243#	0.00
51	T	n-Heptane	0.233	0.214	8.2	221#	0.00

LM 1/8/07

173

Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2007_01\03\
Data File : 01030717.D
Acq On : 3 Jan 2007 21:36
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12150607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 16:07:14 2007
Quant Method : J:\MS08\METHODS\R8122206.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Fri Dec 22 08:28:40 2006
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	0.410	0.412	-0.5	227#	0.00
53	T	4-Methyl-2-pentanone	0.218	0.202	7.3	209#	0.00
54	T	trans-1,3-Dichloropropene	0.377	0.395	-4.8	234#	0.00
55	T	1,1,2-Trichloroethane	0.243	0.247	-1.6	236#	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	233#	0.00
57	S	Toluene-d8 (SS2)	1.986	1.949	1.9	230#	0.00
58	T	Toluene	1.860	1.871	-0.6	235#	0.00
59	T	2-Hexanone	0.996	0.896	10.0	203#	0.00
60	T	Dibromochloromethane	0.478	0.537	-12.3	253#	0.00
61	T	1,2-Dibromoethane	0.513	0.545	-6.2	241#	0.00
62	T	Butyl Acetate	1.079	0.979	9.3	201#	0.00
63	T	n-Octane	0.372	0.357	4.0	218#	0.00
64	T	Tetrachloroethene	0.429	0.469	-9.3	256#	0.00
65	T	Chlorobenzene	1.226	1.273	-3.8	242#	0.00
66	T	Ethylbenzene	2.158	2.273	-5.3	239#	0.00
67	T	m- & p-Xylene	1.399	1.481	-5.9	240#	0.01
68	T	Bromoform	0.306	0.365	-19.3	262#	0.00
69	T	Styrene	1.288	1.409	-9.4	242#	0.00
70	T	o-Xylene	1.517	1.615	-6.5	240#	0.00
71	T	n-Nonane	0.874	0.798	8.7	203#	0.00
72	T	1,1,2,2-Tetrachloroethane	0.725	0.731	-0.8	226#	0.00
73	S	Bromofluorobenzene (SS3)	0.678	0.752	-10.9	255#	0.00
74	T	Cumene	1.959	2.123	-8.4	243#	0.00
75	T	alpha-Pinene	1.019	1.086	-6.6	236#	0.00
76	T	n-Propylbenzene	2.587	2.765	-6.9	234#	0.00
77	T	3-Ethyltoluene	2.119	2.302	-8.6	237#	0.00
78	T	4-Ethyltoluene	2.004	2.195	-9.5	248#	0.00
79	T	1,3,5-Trimethylbenzene	1.749	1.919	-9.7	246#	0.00
80	T	alpha-Methylstyrene	0.910	1.047	-15.1	240#	0.00
81	T	2-Ethyltoluene	2.157	2.359	-9.4	243#	0.00
82	T	1,2,4-Trimethylbenzene	1.747	1.879	-7.6	240#	0.00
83	T	n-Decane	0.948	0.912	3.8	210#	0.00
84	T	Benzyl Chloride	1.649	1.792	-8.7	234#	0.00
85	T	1,3-Dichlorobenzene	0.947	1.062	-12.1	254#	0.00
86	T	1,4-Dichlorobenzene	0.924	1.031	-11.6	252#	0.00
87	T	sec-Butylbenzene	2.296	2.468	-7.5	237#	0.00
88	T	p-Isopropyltoluene	1.842	2.043	-10.9	241#	0.00
89	T	1,2,3-Trimethylbenzene	1.664	1.825	-9.7	239#	0.00
90	T	1,2-Dichlorobenzene	0.891	0.975	-9.4	249#	0.00
91	T	d-Limonene	0.691	0.711	-2.9	213#	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.289	0.369	-27.7	254#	0.00
93	T	n-Undecane	0.800	0.766	4.3	201#	0.00
94	T	1,2,4-Trichlorobenzene	0.173	0.206	-19.1	253#	0.00
95	T	Naphthalene	1.896	2.283	-20.4	239#	0.00
96	T	n-Dodecane	0.539	0.537	0.4	221#	0.00
97	T	Hexachloro-1,3-butadiene	0.287	0.347	-20.9	263#	0.00

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

LM 1/8/07

174

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603530

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: 01030702.D
Date Analyzed: 01/03/07
Time Analyzed: 10:15

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	680280	9.06	2850412	10.99	1608214	15.82
	Upper Limit	952392	9.39	3990577	11.32	2251500	16.15
	Lower Limit	408168	8.73	1710247	10.66	964928	15.49
	Client Sample ID						
01	Method Blank	736989	9.04	3463774	10.98	1790917	15.81
02	Lab Control Sample	701420	9.06	2972979	10.99	1638820	15.82
03	Duplicate Lab Control Sample	736509	9.06	3192767	11.00	1736978	15.82
04	WDI-VW-51-D-12-21-06	778324	9.05	3310160	10.99	1931182	15.82
05	WDI-VW-51-D-12-21-06 (Lab Duplicate)	776375	9.05	3352996	10.99	1944867	15.82
06	WDI-VW-62-S-12-21-06	812616	9.05	3484496	10.99	1922875	15.82
07	WDI-VW-51-S-12-21-06	849370	9.06	3844490	11.00	2022271	15.82
08	WDI-VW-30-S-12-21-06	848762	9.04	3906507	10.98	1994615	15.82
09	WDI-VW-30-I-12-21-06	802259	9.04	3543287	10.98	1898221	15.82
10	WDI-VW-30-D-12-21-06	804595	9.04	3576654	10.98	1906171	15.82
11	WDI-VW-25-12-22-06	881500	9.05	3801125	10.99	2087240	15.82
12	WDI-VW-Trip Blank -03	821890	9.04	3721193	10.98	1933670	15.82
13							
14							
15							
16							
17							
18							
19							
20							

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

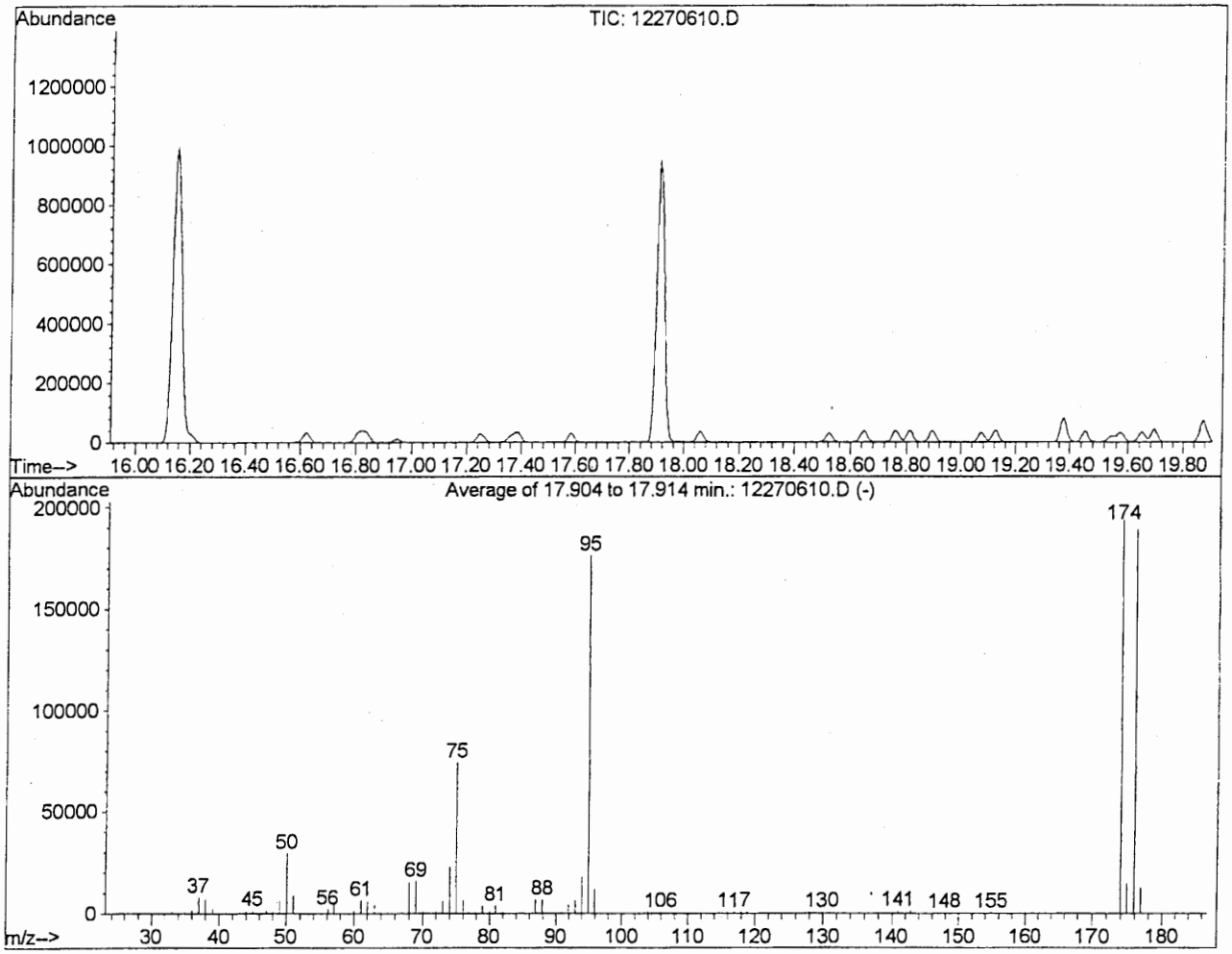
AREA UPPER LIMIT = 140% of internal standard area
AREA LOWER LIMIT = 60% of internal standard area
RT UPPER LIMIT = 0.33 minutes of internal standard RT
RT LOWER LIMIT = 0.33 minutes of internal standard RT

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

Verified by: LU Date: 1/10/07

BFB

Data File : J:\MS02\DATA\2006_12\27\12270610.D Vial: 1
Acq On : 27 Dec 2006 6:30 pm Operator: RTB
Sample : 0.5ng TO-15 ICAL STD Inst : MS02
Misc : S15-12270601/S15-12150606 Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD



AutoFind: Scans 2519, 2520, 2521; Background Corrected with Scan 2509

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.8	29528	PASS
75	95	30	66	42.2	74320	PASS
96	95	5	9	6.7	11831	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	109.8	193237	PASS
175	174	4	9	7.6	14688	PASS
176	174	93	101	97.6	188629	PASS
177	176	5	9	6.7	12565	PASS

12270610.D R2122706.M Thu Dec 28 10:06:00 2006

JB 12/28/06

Response Factor Report MS02

Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Thu Dec 28 09:59:49 2006
Response via : Initial Calibration

all OK for targets

Calibration Files
0.5 =12270610.D 1 =12270611.D 5 =12270612.D
25 =12270613.D 50 =12270614.D 100 =12270615.D

		Compound	0.5	1	5	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I	----------ISTD----------							
2)	T	Propene	1.226	1.056	0.967	0.823	0.756	0.751	0.930	20.32
3)	T	Dichlorodifluoromet	3.152	2.835	2.609	2.213	2.114	2.102	2.504	17.30
4)	T	Chloromethane	1.637	1.749	1.634	1.389	1.379	1.408	1.532	10.44
5)	T	Freon 114	1.400	1.226	1.025	0.928	0.825	0.783	1.031	23.34
6)	T	Vinyl Chloride	1.499	1.400	1.375	1.194	1.108	1.090	1.278	13.31
7)	T	1,3-Butadiene	1.267	1.127	0.958	1.005	0.949	0.918	1.037	12.94
8)	T	Bromomethane	1.747	1.514	1.357	1.288	1.282	1.334	1.420	12.73
9)	T	Chloroethane	1.055	1.012	0.952	0.855	0.844	0.857	0.929	9.75
10)	T	Ethanol		0.311	0.580	0.599	0.620	0.661	0.554	25.16
11)	T	Acetonitrile	1.776	1.723	1.611	1.710	1.731	1.778	1.722	3.54
12)	T	Acrolein	0.565	0.572	0.541	0.532	0.556	0.590	0.559	3.75
13)	T	Acetone		1.060	0.907	0.685	0.717	0.776	0.829	18.63
14)	T	Trichlorofluorometh	2.385	2.201	1.981	1.825	1.816	1.865	2.012	11.57
15)	T	Isopropanol	3.819	3.321	2.803	2.711	2.523	2.198	2.896	20.14
16)	T	Acrylonitrile	1.232	1.182	1.175	1.187	1.218	1.268	1.210	2.95
17)	T	1,1-Dichloroethene	1.383	1.326	1.235	1.132	1.122	1.135	1.222	9.17
18)	T	tert-Butanol	3.484	3.193	2.746	2.587	2.555	2.542	2.851	13.86
19)	T	Methylene Chloride	1.681	1.519	1.381	1.246	1.252	1.284	1.394	12.54
20)	T	Allyl Chloride	1.271	1.196	1.090	1.124	1.145	1.242	1.178	5.96
21)	T	Trichlorotrifluoroe	1.351	1.291	1.199	1.078	1.143	1.229	1.215	8.13
22)	T	Carbon Disulfide	6.342	5.432	4.724	4.363	4.402	4.533	4.966	15.70
23)	T	trans-1,2-Dichloroe	1.877	1.772	1.665	1.549	1.571	1.630	1.677	7.49
24)	T	1,1-Dichloroethane	2.260	2.119	1.953	1.762	1.624	1.564	1.881	14.78
25)	T	Methyl tert-Butyl E	3.660	3.438	3.237	2.950	3.066	3.217	3.262	7.85
26)	T	Vinyl Acetate		0.189	0.258	0.277	0.293	0.299	0.263	16.83
27)	T	2-Butanone		0.738	0.729	0.695	0.707	0.727	0.719	2.50
28)	T	cis-1,2-Dichloroeth	1.738	1.661	1.538	1.452	1.457	1.507	1.559	7.45
29)	T	Diisopropyl Ether	0.982	0.880	0.868	0.808	0.818	0.826	0.864	7.49
30)	T	Ethyl Acetate	0.297	0.300	0.339	0.312	0.308	0.296	0.309	5.22
31)	T	n-Hexane	1.688	1.625	1.413	1.259	1.324	1.416	1.454	11.59
32)	T	Chloroform	2.361	2.161	1.989	1.872	1.877	1.825	2.014	10.35
33)	S	1,2-Dichloroethane-	1.294	1.302	1.314	1.308	1.358	1.358	1.322	2.15
34)	T	Tetrahydrofuran	0.765	0.715	0.706	0.648	0.656	0.614	0.684	8.00
35)	T	Ethyl tert-Butyl Et	1.554	1.472	1.328	1.260	1.283	1.316	1.369	8.56
36)	T	1,2-Dichloroethane	1.882	1.733	1.639	1.559	1.587	1.642	1.674	7.06
37)	IR	1,4-Difluorobenzene (	----------ISTD----------							
38)	T	1,1,1-Trichloroetha	0.575	0.548	0.512	0.493	0.503	0.518	0.525	5.85
39)	T	Isopropyl Acetate	0.197	0.184	0.183	0.182	0.182	0.179	0.185	3.35
40)	T	1-Butanol		0.305	0.212	0.244	0.241	0.233	0.247	14.05
41)	T	Benzene	1.651	1.385	1.192	1.110	1.112	1.113	1.260	17.34
42)	T	Carbon Tetrachlorid	0.312	0.319	0.348	0.392	0.402	0.413	0.364	12.08

(#) = Out of Range

Response Factor Report MS02

Method : J:\MS02\METHODS\R2122706.M (RTE Integrator) √
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Thu Dec 28 09:59:49 2006
Response via : Initial Calibration

Calibration Files
0.5 =12270610.D 1 =12270611.D 5 =12270612.D
25 =12270613.D 50 =12270614.D 100 =12270615.D

		Compound	0.5	1	5	25	50	100	Avg	%RSD
43)	T	Cyclohexane	0.579	0.512	0.468	0.437	0.442	0.448	0.481	11.48
44)	T	tert-Amyl Methyl Et	0.973	0.912	0.850	0.832	0.856	0.878	0.883	5.83
45)	T	1,2-Dichloropropane	0.312	0.294	0.275	0.261	0.263	0.261	0.278	7.65
46)	T	Bromodichloromethan	0.476	0.445	0.433	0.422	0.423	0.424	0.437	4.84
47)	T	Trichloroethene	0.495	0.463	0.421	0.398	0.394	0.383	0.426	10.38
48)	T	1,4-Dioxane	0.299	0.267	0.255	0.245	0.241	0.234	0.257	9.26
49)	T	Isooctane	1.220	1.105	0.992	0.941	0.953	0.972	1.031	10.67
50)	T	Methyl Methacrylate	0.149	0.156	0.163	0.163	0.166	0.168	0.161	4.28
51)	T	n-Heptane	0.324	0.306	0.276	0.259	0.260	0.261	0.281	9.91
52)	T	cis-1,3-Dichloropro	0.591	0.534	0.519	0.498	0.491	0.478	0.519	7.90
53)	T	4-Methyl-2-pentanon	0.282	0.264	0.257	0.240	0.236	0.231	0.252	7.77
54)	T	trans-1,3-Dichlorop	0.535	0.479	0.476	0.475	0.480	0.490	0.489	4.74
55)	T	1,1,2-Trichloroetha	0.395	0.359	0.338	0.324	0.324	0.321	0.343	8.45
56)	I	Chlorobenzene-d5 (IS3	----------ISTD----------							
57)	S	Toluene-d8 (SS2)	2.171	2.165	2.189	2.175	2.209	2.232	2.190	1.18
58)	T	Toluene	3.649	3.257	2.953	2.663	2.585	2.418	2.921	15.88
59)	T	2-Hexanone	1.830	1.688	1.589	1.481	1.470	1.418	1.579	9.90
60)	T	Dibromochloromethan	1.114	1.016	1.012	0.980	0.962	0.928	1.002	6.37
61)	T	1,2-Dibromoethane	1.162	1.050	1.040	0.975	0.955	0.912	1.016	8.74
62)	T	Butyl Acetate	1.902	1.739	1.619	1.612	1.587	1.540	1.666	7.97
63)	T	n-Octane	0.582	0.564	0.522	0.478	0.456	0.429	0.505	12.11
64)	T	Tetrachloroethene	1.391	1.264	1.156	1.069	1.034	0.996	1.152	13.15
65)	T	Chlorobenzene	2.624	2.377	2.149	1.979	1.917	1.787	2.139	14.65
66)	T	Ethylbenzene	4.204	3.765	3.467	3.176	3.032	2.829	3.412	14.91
67)	T	m- & p-Xylene	2.724	2.464	2.253	2.035	1.935	1.768	2.196	16.17
68)	T	Bromoform	0.883	0.860	0.840	0.835	0.830	0.800	0.841	3.35
69)	T	Styrene	2.476	2.322	2.230	2.069	1.990	1.844	2.155	10.74
70)	T	o-Xylene	2.922	2.616	2.413	2.229	2.126	1.962	2.378	14.72
71)	T	n-Nonane	1.447	1.327	1.227	1.144	1.088	1.023	1.209	13.03
72)	T	1,1,2,2-Tetrachloro	1.325	1.227	1.194	1.127	1.077	0.982	1.156	10.41
73)	S	Bromofluorobenzene	1.041	1.037	1.052	1.051	1.057	1.059	1.050	0.84
74)	T	Cumene	3.894	3.546	3.259	3.082	2.944	2.709	3.239	13.22
75)	T	alpha-Pinene	2.012	1.817	1.697	1.601	1.533	1.416	1.679	12.69
76)	T	n-Propylbenzene	4.851	4.319	4.083	3.829	3.620	3.337	4.006	13.42
77)	T	3-Ethyltoluene	4.304	3.896	3.571	3.333	3.206	2.952	3.544	13.89
78)	T	4-Ethyltoluene	4.084	3.658	3.415	3.145	2.963	2.708	3.329	14.96
79)	T	1,3,5-Trimethylbenz	3.556	3.193	2.980	2.736	2.612	2.419	2.916	14.23
80)	T	alpha-Methylstyrene	0.985	0.888	0.859	0.831	0.800	0.750	0.852	9.49
81)	T	2-Ethyltoluene	4.297	3.936	3.597	3.449	3.276	3.009	3.594	12.91
82)	T	1,2,4-Trimethylbenz	3.594	3.243	2.937	2.606	2.394	2.081	2.809	19.91
83)	T	n-Decane	1.614	1.488	1.367	1.272	1.196	1.096	1.339	14.28
84)	T	Benzyl Chloride	2.597	2.525	2.565	2.490	2.412	2.260	2.475	4.98
85)	T	1,3-Dichlorobenzene	2.501	2.331	2.163	2.010	1.931	1.760	2.116	12.84

(#) = Out of Range

Response Factor Report MS02

Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Thu Dec 28 09:59:49 2006
Response via : Initial Calibration

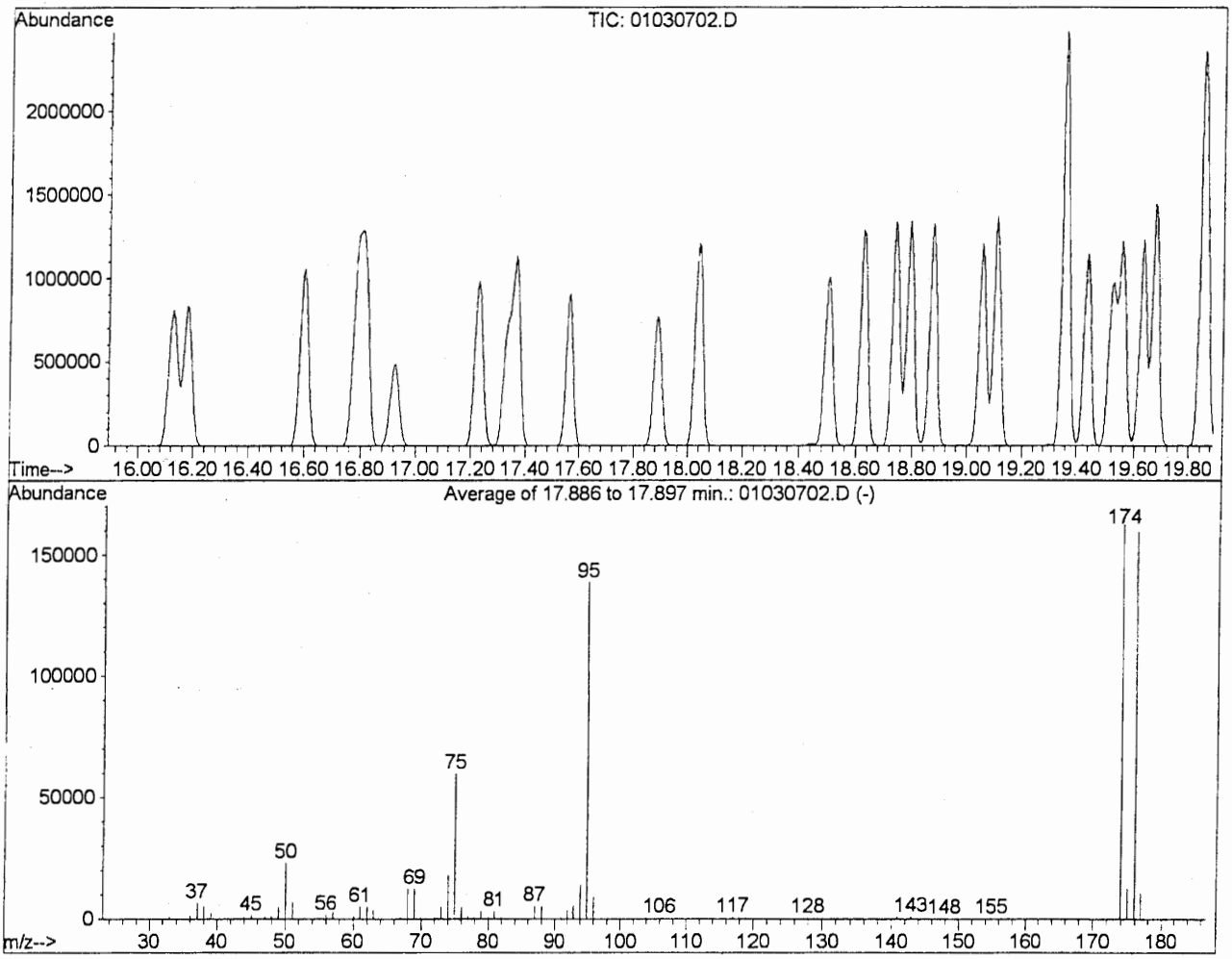
Calibration Files
0.5 =12270610.D 1 =12270611.D 5 =12270612.D
25 =12270613.D 50 =12270614.D 100 =12270615.D

		Compound	0.5	1	5	25	50	100	Avg	%RSD
86)	T	1,4-Dichlorobenzene	2.604	2.281	2.118	2.003	1.904	1.757	2.111	14.24
87)	T	sec-Butylbenzene	4.674	4.197	3.863	3.685	3.512	3.180	3.852	13.68
88)	T	p-Isopropyltoluene	3.900	3.582	3.289	3.047	2.804	2.398	3.170	17.06
89)	T	1,2,3-Trimethylbenz	3.288	2.983	2.755	2.595	2.414	2.121	2.693	15.37
90)	T	1,2-Dichlorobenzene	2.299	2.164	2.017	1.846	1.735	1.546	1.935	14.46
91)	T	d-Limonene	1.180	1.070	1.040	0.940	0.883	0.803	0.986	13.91
92)	T	1,2-Dibromo-3-Chlor	0.641	0.645	0.745	0.816	0.810	0.774	0.739	10.63
93)	T	n-Undecane	1.673	1.540	1.432	1.332	1.235	1.115	1.388	14.68
94)	T	1,2,4-Trichlorobenz	0.415	0.388	0.454	0.446	0.433	0.397	0.422	6.29
95)	T	Naphthalene	4.308	3.828	3.881	4.223	4.087	3.748	4.012	5.66
96)	T	n-Dodecane	1.424	1.301	1.275	1.244	1.153	1.041	1.240	10.59
97)	T	Hexachloro-1,3-buta	0.906	0.830	0.827	0.782	0.757	0.692	0.799	9.10

(#) = Out of Range

BFB

Data File : J:\MS02\DATA\2007_01\03\01030702.D Vial: 1
Acq On : 3 Jan 2007 10:16 am Operator: AB
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-12270601/S15-12150608 Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD



AutoFind: Scans 2515, 2516, 2517; Background Corrected with Scan 2504

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.5	22936	PASS
75	95	30	66	43.0	59696	PASS
96	95	5	9	6.5	9026	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	117.2	162709	PASS
175	174	4	9	7.6	12321	PASS
176	174	93	101	97.9	159317	PASS
177	176	5	9	6.6	10568	PASS

01030702.D R2122706.M Wed Jan 03 11:23:10 2007

01/03/07

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\03\01030702.D Vial: 1
Acq On : 3 Jan 2007 10:16 am Operator: AB
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-12270601/S15-12150608 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Thu Dec 28 09:59:49 2006
Response via : Multiple Level Calibration

Data not evaluated

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	82	-0.04
2	T	Propene	0.930	0.673	27.6	67	-0.02
3	T	Dichlorodifluoromethane	2.504	2.179	13.0	81	-0.03
4	T	Chloromethane	1.532	1.224	20.1	72	-0.03
5	T	Freon 114	1.031	0.952	7.7	84	-0.02
6	T	Vinyl Chloride	1.278	1.158	9.4	79	-0.03
7	T	1,3-Butadiene	1.037	0.854	17.6	70	-0.03
8	T	Bromomethane	1.420	1.180	16.9	75	-0.03
9	T	Chloroethane	0.929	0.754	18.8	72	-0.03
10	T	Ethanol	0.554	0.519	6.3	71	-0.03
11	T	Acetonitrile	1.722	1.393	19.1	67	-0.03
12	T	Acrolein	0.559	0.437	21.8	67	-0.03
13	T	Acetone	0.829	0.593	28.5	71	-0.03
14	T	Trichlorofluoromethane	2.012	1.801	10.5	81	-0.03
15	T	Isopropanol	2.896	2.452	15.3	74	-0.03
16	T	Acrylonitrile	1.210	1.007	16.8	70	-0.03
17	T	1,1-Dichloroethene	1.222	1.056	13.6	76	-0.03
18	T	tert-Butanol	2.851	2.455	13.9	78	-0.03
19	T	Methylene Chloride	1.394	1.123	19.4	74	-0.03
20	T	Allyl Chloride	1.178	0.957	18.8	70	-0.03
21	T	Trichlorotrifluoroethane	1.215	0.985	18.9	75	-0.03
22	T	Carbon Disulfide	4.966	3.926	20.9	74	-0.03
23	T	trans-1,2-Dichloroethene	1.677	1.395	16.8	74	-0.03
24	T	1,1-Dichloroethane	1.881	1.633	13.2	76	-0.03
25	T	Methyl tert-Butyl Ether	3.262	2.714	16.8	75	-0.03
26	T	Vinyl Acetate	0.263	0.272	-3.4	81	-0.03
27	T	2-Butanone	0.719	0.609	15.3	72	-0.03
28	T	cis-1,2-Dichloroethene	1.559	1.318	15.5	74	-0.03
29	T	Diisopropyl Ether	0.864	0.722	16.4	73	-0.03
30	T	Ethyl Acetate	0.309	0.265	14.2	69	-0.03
31	T	n-Hexane	1.454	1.047	28.0	68	-0.03
32	T	Chloroform	2.014	1.757	12.8	77	-0.03
33	S	1,2-Dichloroethane-d4 (SS1)	1.322	1.312	0.8	82	-0.03
34	T	Tetrahydrofuran	0.684	0.566	17.3	72	-0.03
35	T	Ethyl tert-Butyl Ether	1.369	1.168	14.7	76	-0.03
36	T	1,2-Dichloroethane	1.674	1.498	10.5	79	-0.03
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	80	-0.03
38	T	1,1,1-Trichloroethane	0.525	0.480	8.6	78	-0.03
39	T	Isopropyl Acetate	0.185	0.160	13.5	70	-0.03
40	T	1-Butanol	0.247	0.212	14.2	70	-0.03

(#) = Out of Range

PZ 01/03/07

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\03\01030702.D Vial: 1
Acq On : 3 Jan 2007 10:16 am Operator: AB
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-12270601/S15-12150608 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Thu Dec 28 09:59:49 2006
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.260	1.004	20.3	73	-0.03
42	T	Carbon Tetrachloride	0.364	0.379	-4.1	78	-0.03
43	T	Cyclohexane	0.481	0.403	16.2	74	-0.03
44	T	tert-Amyl Methyl Ether	0.883	0.768	13.0	74	-0.03
45	T	1,2-Dichloropropane	0.278	0.236	15.1	72	-0.03
46	T	Bromodichloromethane	0.437	0.405	7.3	77	-0.03
47	T	Trichloroethene	0.426	0.384	9.9	77	-0.03
48	T	1,4-Dioxane	0.257	0.231	10.1	76	-0.04
49	T	Isooctane	1.031	0.812	21.2	69	-0.03
50	T	Methyl Methacrylate	0.161	0.154	4.3	76	-0.03
51	T	n-Heptane	0.281	0.231	17.8	72	-0.03
52	T	cis-1,3-Dichloropropene	0.519	0.468	9.8	76	-0.03
53	T	4-Methyl-2-pentanone	0.252	0.215	14.7	72	-0.03
54	T	trans-1,3-Dichloropropene	0.489	0.456	6.7	77	-0.03
55	T	1,1,2-Trichloroethane	0.343	0.306	10.8	76	-0.03
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	76	-0.03
57	S	Toluene-d8 (SS2)	2.190	2.215	-1.1	77	-0.03
58	T	Toluene	2.921	2.653	9.2	75	-0.03
59	T	2-Hexanone	1.579	1.418	10.2	72	-0.03
60	T	Dibromochloromethane	1.002	1.018	-1.6	79	-0.03
61	T	1,2-Dibromoethane	1.016	0.983	3.2	76	-0.03
62	T	Butyl Acetate	1.666	1.509	9.4	71	-0.03
63	T	n-Octane	0.505	0.452	10.5	72	-0.03
64	T	Tetrachloroethene	1.152	1.118	3.0	79	-0.03
65	T	Chlorobenzene	2.139	2.008	6.1	77	-0.02
66	T	Ethylbenzene	3.412	3.192	6.4	76	-0.02
67	T	m- & p-Xylene	2.196	2.080	5.3	77	-0.03
68	T	Bromoform	0.841	0.872	-3.7	79	-0.02
69	T	Styrene	2.155	2.071	3.9	76	-0.03
70	T	o-Xylene	2.378	2.254	5.2	77	-0.03
71	T	n-Nonane	1.209	1.072	11.3	71	-0.02
72	T	1,1,2,2-Tetrachloroethane	1.156	1.094	5.4	73	-0.02
73	S	Bromofluorobenzene (SS3)	1.050	1.097	-4.5	79	-0.02
74	T	Cumene	3.239	3.154	2.6	77	-0.02
75	T	alpha-Pinene	1.679	1.597	4.9	76	-0.02
76	T	n-Propylbenzene	4.006	3.844	4.0	76	-0.02
77	T	3-Ethyltoluene	3.544	3.396	4.2	77	-0.02
78	T	4-Ethyltoluene	3.329	3.230	3.0	78	-0.02
79	T	1,3,5-Trimethylbenzene	2.916	2.803	3.9	78	-0.02
80	T	alpha-Methylstyrene	0.852	0.827	2.9	75	-0.02

(#) = Out of Range

01/03/07

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\03\01030702.D Vial: 1
Acq On : 3 Jan 2007 10:16 am Operator: AB
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-12270601/S15-12150608 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Thu Dec 28 09:59:49 2006
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	2-Ethyltoluene	3.594	3.486	3.0	77	-0.02
82	T	1,2,4-Trimethylbenzene	2.809	2.695	4.1	78	-0.02
83	T	n-Decane	1.339	1.203	10.2	72	-0.02
84	T	Benzyl Chloride	2.475	2.535	-2.4	77	-0.02
85	T	1,3-Dichlorobenzene	2.116	2.087	1.4	79	-0.02
86	T	1,4-Dichlorobenzene	2.111	2.083	1.3	79	-0.02
87	T	sec-Butylbenzene	3.852	3.730	3.2	77	-0.02
88	T	p-Isopropyltoluene	3.170	3.136	1.1	78	-0.02
89	T	1,2,3-Trimethylbenzene	2.693	2.678	0.6	78	-0.02
90	T	1,2-Dichlorobenzene	1.935	1.923	0.6	79	-0.02
91	T	d-Limonene	0.986	0.892	9.5	72	-0.02
92	T	1,2-Dibromo-3-Chloropropane	0.739	0.849	-14.9	79	-0.02
93	T	n-Undecane	1.388	1.233	11.2	70	-0.02
94	T	1,2,4-Trichlorobenzene	0.422	0.474	-12.3	80	-0.02
95	T	Naphthalene	4.012	4.265	-6.3	76	-0.02
96	T	n-Dodecane	1.240	1.141	8.0	69	-0.02
97	T	Hexachloro-1,3-butadiene	0.799	0.825	-3.3	80	-0.02

B 01/03/07

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\03\01030706.D Vial: 1
Acq On : 3 Jan 2007 1:21 pm Operator: RTB
Sample : 1ng TO-15 CRQL Inst : MS02
Misc : S15-12270601/S15-12150606 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Thu Dec 28 09:59:49 2006
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	85	-0.05
2	T	Propene	0.930	0.853	8.3	69	0.00
3	T	Dichlorodifluoromethane	2.504	2.822	-12.7	85	0.00
4	T	Chloromethane	1.532	1.377	10.1	67	0.00
5	T	Freon 114	1.031	1.216	-17.9	84	0.00
6	T	Vinyl Chloride	1.278	1.284	-0.5	78	0.00
7	T	1,3-Butadiene	1.037	0.911	12.2	69	0.00
8	T	Bromomethane	1.420	1.373	3.3	77	0.00
9	T	Chloroethane	0.929	0.889	4.3	75	0.00
10	T	Ethanol	0.554	0.328	40.8#	90	-0.03
11	T	Acetonitrile	1.722	1.394	19.0	69	-0.03
12	T	Acrolein	0.559	0.486	13.1	72	-0.01
13	T	Acetone	0.829	1.034	-24.7	83	-0.02
14	T	Trichlorofluoromethane	2.012	2.204	-9.5	85	-0.01
15	T	Isopropanol	2.896	3.180	-9.8	81	-0.05
16	T	Acrylonitrile	1.210	1.028	15.0	74	-0.04
17	T	1,1-Dichloroethene	1.222	1.218	0.3	78	0.00
18	T	tert-Butanol	2.851	3.012	-5.6	80	-0.05
19	T	Methylene Chloride	1.394	1.323	5.1	74	-0.03
20	T	Allyl Chloride	1.178	1.082	8.1	77	-0.02
21	T	Trichlorotrifluoroethane	1.215	1.279	-5.3	84	-0.01
22	T	Carbon Disulfide	4.966	5.125	-3.2	80	0.00
23	T	trans-1,2-Dichloroethene	1.677	1.651	1.6	79	-0.02
24	T	1,1-Dichloroethane	1.881	1.961	-4.3	79	-0.04
25	T	Methyl tert-Butyl Ether	3.262	3.300	-1.2	82	-0.03
26	T	Vinyl Acetate	0.263	0.205	22.1	92	-0.03
27	T	2-Butanone	0.719	0.668	7.1	77	-0.03
28	T	cis-1,2-Dichloroethene	1.559	1.471	5.6	75	-0.04
29	T	Diisopropyl Ether	0.864	0.819	5.2	79	-0.04
30	T	Ethyl Acetate	0.309	0.294	4.9	83	-0.04
31	T	n-Hexane	1.454	1.440	1.0	75	-0.02
32	T	Chloroform	2.014	1.963	2.5	77	-0.04
33	S	1,2-Dichloroethane-d4 (SS1)	1.322	1.297	1.9	85	-0.04
34	T	Tetrahydrofuran	0.684	0.643	6.0	77	-0.02
35	T	Ethyl tert-Butyl Ether	1.369	1.341	2.0	78	-0.03
36	T	1,2-Dichloroethane	1.674	1.677	-0.2	82	-0.05
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	85	-0.03
38	T	1,1,1-Trichloroethane	0.525	0.535	-1.9	83	-0.03
39	T	Isopropyl Acetate	0.185	0.167	9.7	77	-0.04
40	T	1-Butanol	0.247	0.286	-15.8	80	-0.01

(#) = Out of Range

01/03/07

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\03\01030706.D Vial: 1
Acq On : 3 Jan 2007 1:21 pm Operator: RTB
Sample : 1ng TO-15 CRQL Inst : MS02
Misc : S15-12270601/S15-12150606 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Thu Dec 28 09:59:49 2006
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.260	1.208	4.1	74	-0.03
42	T	Carbon Tetrachloride	0.364	0.291	20.1	77	-0.04
43	T	Cyclohexane	0.481	0.477	0.8	79	-0.03
44	T	tert-Amyl Methyl Ether	0.883	0.855	3.2	79	-0.03
45	T	1,2-Dichloropropane	0.278	0.264	5.0	76	-0.03
46	T	Bromodichloromethane	0.437	0.424	3.0	81	-0.04
47	T	Trichloroethene	0.426	0.450	-5.6	82	-0.03
48	T	1,4-Dioxane	0.257	0.243	5.4	77	-0.03
49	T	Isooctane	1.031	1.007	2.3	77	-0.03
50	T	Methyl Methacrylate	0.161	0.146	9.3	79	-0.02
51	T	n-Heptane	0.281	0.276	1.8	76	-0.03
52	T	cis-1,3-Dichloropropene	0.519	0.509	1.9	81	-0.03
53	T	4-Methyl-2-pentanone	0.252	0.249	1.2	80	-0.02
54	T	trans-1,3-Dichloropropene	0.489	0.471	3.7	83	-0.03
55	T	1,1,2-Trichloroethane	0.343	0.335	2.3	79	-0.03
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	80	-0.03
57	S	Toluene-d8 (SS2)	2.190	2.204	-0.6	82	-0.03
58	T	Toluene	2.921	3.196	-9.4	79	-0.03
59	T	2-Hexanone	1.579	1.633	-3.4	77	-0.02
60	T	Dibromochloromethane	1.002	1.020	-1.8	80	-0.03
61	T	1,2-Dibromoethane	1.016	1.072	-5.5	82	-0.03
62	T	Butyl Acetate	1.666	1.662	0.2	77	-0.02
63	T	n-Octane	0.505	0.512	-1.4	73	-0.03
64	T	Tetrachloroethene	1.152	1.288	-11.8	82	-0.03
65	T	Chlorobenzene	2.139	2.390	-11.7	81	-0.02
66	T	Ethylbenzene	3.412	3.637	-6.6	77	-0.02
67	T	m- & p-Xylene	2.196	2.441	-11.2	79	-0.02
68	T	Bromoform	0.841	0.869	-3.3	81	-0.02
69	T	Styrene	2.155	2.328	-8.0	80	-0.03
70	T	o-Xylene	2.378	2.672	-12.4	82	-0.03
71	T	n-Nonane	1.209	1.233	-2.0	74	-0.02
72	T	1,1,2,2-Tetrachloroethane	1.156	1.225	-6.0	80	-0.02
73	S	Bromofluorobenzene (SS3)	1.050	1.081	-3.0	83	-0.02
74	T	Cumene	3.239	3.581	-10.6	81	-0.02
75	T	alpha-Pinene	1.679	1.788	-6.5	79	-0.02
76	T	n-Propylbenzene	4.006	4.319	-7.8	80	-0.02
77	T	3-Ethyltoluene	3.544	3.767	-6.3	77	-0.02
78	T	4-Ethyltoluene	3.329	3.828	-15.0	84	-0.02
79	T	1,3,5-Trimethylbenzene	2.916	3.282	-12.6	82	-0.02
80	T	alpha-Methylstyrene	0.852	0.909	-6.7	82	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\03\01030706.D Vial: 1
Acq On : 3 Jan 2007 1:21 pm Operator: RTB
Sample : 1ng TO-15 CRQL Inst : MS02
Misc : S15-12270601/S15-12150606 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Thu Dec 28 09:59:49 2006
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	2-Ethyltoluene	3.594	3.916	-9.0	80	-0.02
82	T	1,2,4-Trimethylbenzene	2.809	3.268	-16.3	81	-0.02
83	T	n-Decane	1.339	1.369	-2.2	74	-0.02
84	T	Benzyl Chloride	2.475	2.529	-2.2	80	-0.02
85	T	1,3-Dichlorobenzene	2.116	2.390	-12.9	82	-0.02
86	T	1,4-Dichlorobenzene	2.111	2.346	-11.1	82	-0.02
87	T	sec-Butylbenzene	3.852	4.208	-9.2	80	-0.02
88	T	p-Isopropyltoluene	3.170	3.583	-13.0	80	-0.02
89	T	1,2,3-Trimethylbenzene	2.693	2.964	-10.1	80	-0.02
90	T	1,2-Dichlorobenzene	1.935	2.206	-14.0	82	-0.01
91	T	d-Limonene	0.986	1.027	-4.2	77	-0.02
92	T	1,2-Dibromo-3-Chloropropane	0.739	0.695	6.0	86	-0.02
93	T	n-Undecane	1.388	1.378	0.7	72	-0.01
94	T	1,2,4-Trichlorobenzene	0.422	0.430	-1.9	89	0.00
95	T	Naphthalene	4.012	4.155	-3.6	87	0.00
96	T	n-Dodecane	1.240	1.365	-10.1	84	0.00
97	T	Hexachloro-1,3-butadiene	0.799	0.913	-14.3	88	-0.02

01/03/07

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\03\01030717.D Vial: 1
Acq On : 3 Jan 2007 9:01 pm Operator: RTB
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-12270601/S15-12150608 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Thu Dec 28 09:54:37 2006
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	88	-0.04
2	T	Propene	0.930	0.726	21.9	78	-0.02
3	T	Dichlorodifluoromethane	2.504	2.162	13.7	86	-0.03
4	T	Chloromethane	1.532	1.297	15.3	82	-0.03
5	T	Freon 114	1.031	0.882	14.5	84	-0.02
6	T	Vinyl Chloride	1.278	1.027	19.6	76	-0.03
7	T	1,3-Butadiene	1.037	0.902	13.0	79	-0.03
8	T	Bromomethane	1.420	1.243	12.5	85	-0.03
9	T	Chloroethane	0.929	0.789	15.1	81	-0.03
10	T	Ethanol	0.554	0.534	3.6	79	-0.02
11	T	Acetonitrile	1.722	1.499	13.0	77	-0.03
12	T	Acrolein	0.559	0.495	11.4	82	-0.03
13	T	Acetone	0.829	0.657	20.7	85	-0.03
14	T	Trichlorofluoromethane	2.012	1.750	13.0	85	-0.03
15	T	Isopropanol	2.896	2.554	11.8	83	-0.04
16	T	Acrylonitrile	1.210	1.085	10.3	81	-0.03
17	T	1,1-Dichloroethene	1.222	1.082	11.5	84	-0.03
18	T	tert-Butanol	2.851	2.499	12.3	85	-0.04
19	T	Methylene Chloride	1.394	1.180	15.4	84	-0.04
20	T	Allyl Chloride	1.178	1.001	15.0	79	-0.03
21	T	Trichlorotrifluoroethane	1.215	1.086	10.6	89	-0.03
22	T	Carbon Disulfide	4.966	4.123	17.0	83	-0.03
23	T	trans-1,2-Dichloroethene	1.677	1.475	12.0	84	-0.03
24	T	1,1-Dichloroethane	1.881	1.688	10.3	85	-0.03
25	T	Methyl tert-Butyl Ether	3.262	2.904	11.0	87	-0.03
26	T	Vinyl Acetate	0.263	0.290	-10.3	93	-0.04
27	T	2-Butanone	0.719	0.661	8.1	84	-0.03
28	T	cis-1,2-Dichloroethene	1.559	1.367	12.3	83	-0.04
29	T	Diisopropyl Ether	0.864	0.779	9.8	85	-0.04
30	T	Ethyl Acetate	0.309	0.287	7.1	81	-0.03
31	T	n-Hexane	1.454	1.196	17.7	84	-0.03
32	T	Chloroform	2.014	1.783	11.5	84	-0.04
33	S	1,2-Dichloroethane-d4 (SS1)	1.322	1.295	2.0	87	-0.04
34	T	Tetrahydrofuran	0.684	0.627	8.3	85	-0.04
35	T	Ethyl tert-Butyl Ether	1.369	1.229	10.2	86	-0.04
36	T	1,2-Dichloroethane	1.674	1.491	10.9	84	-0.04
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	89	-0.03
38	T	1,1,1-Trichloroethane	0.525	0.477	9.1	86	-0.03
39	T	Isopropyl Acetate	0.185	0.170	8.1	82	-0.04
40	T	1-Butanol	0.247	0.223	9.7	81	-0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\03\01030717.D Vial: 1
Acq On : 3 Jan 2007 9:01 pm Operator: RTB
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-12270601/S15-12150608 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Thu Dec 28 09:54:37 2006
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.260	1.048	16.8	84	-0.03
42	T	Carbon Tetrachloride	0.364	0.374	-2.7	84	-0.03
43	T	Cyclohexane	0.481	0.422	12.3	85	-0.03
44	T	tert-Amyl Methyl Ether	0.883	0.801	9.3	85	-0.03
45	T	1,2-Dichloropropane	0.278	0.245	11.9	83	-0.03
46	T	Bromodichloromethane	0.437	0.406	7.1	85	-0.03
47	T	Trichloroethene	0.426	0.390	8.5	87	-0.03
48	T	1,4-Dioxane	0.257	0.233	9.3	84	-0.04
49	T	Isooctane	1.031	0.887	14.0	83	-0.03
50	T	Methyl Methacrylate	0.161	0.157	2.5	85	-0.03
51	T	n-Heptane	0.281	0.245	12.8	84	-0.03
52	T	cis-1,3-Dichloropropene	0.519	0.480	7.5	85	-0.03
53	T	4-Methyl-2-pentanone	0.252	0.224	11.1	83	-0.03
54	T	trans-1,3-Dichloropropene	0.489	0.456	6.7	85	-0.03
55	T	1,1,2-Trichloroethane	0.343	0.310	9.6	85	-0.03
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	83	-0.03
57	S	Toluene-d8 (SS2)	2.190	2.244	-2.5	86	-0.03
58	T	Toluene	2.921	2.704	7.4	85	-0.03
59	T	2-Hexanone	1.579	1.453	8.0	82	-0.03
60	T	Dibromochloromethane	1.002	0.997	0.5	85	-0.03
61	T	1,2-Dibromoethane	1.016	0.987	2.9	84	-0.03
62	T	Butyl Acetate	1.666	1.571	5.7	81	-0.03
63	T	n-Octane	0.505	0.473	6.3	82	-0.03
64	T	Tetrachloroethene	1.152	1.109	3.7	87	-0.03
65	T	Chlorobenzene	2.139	2.039	4.7	86	-0.03
66	T	Ethylbenzene	3.412	3.224	5.5	85	-0.02
67	T	m- & p-Xylene	2.196	2.084	5.1	85	-0.03
68	T	Bromoform	0.841	0.858	-2.0	86	-0.02
69	T	Styrene	2.155	2.115	1.9	85	-0.03
70	T	o-Xylene	2.378	2.267	4.7	85	-0.03
71	T	n-Nonane	1.209	1.118	7.5	82	-0.03
72	T	1,1,2,2-Tetrachloroethane	1.156	1.122	2.9	83	-0.02
73	S	Bromofluorobenzene (SS3)	1.050	1.072	-2.1	85	-0.02
74	T	Cumene	3.239	3.184	1.7	86	-0.02
75	T	alpha-Pinene	1.679	1.623	3.3	85	-0.02
76	T	n-Propylbenzene	4.006	3.888	2.9	85	-0.02
77	T	3-Ethyltoluene	3.544	3.443	2.8	86	-0.02
78	T	4-Ethyltoluene	3.329	3.230	3.0	86	-0.02
79	T	1,3,5-Trimethylbenzene	2.916	2.805	3.8	85	-0.02
80	T	alpha-Methylstyrene	0.852	0.828	2.8	83	-0.02

(#) = Out of Range

01/04/07

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\03\01030717.D Vial: 1
Acq On : 3 Jan 2007 9:01 pm Operator: RTB
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-12270601/S15-12150608 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2122706.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Thu Dec 28 09:54:37 2006
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	2-Ethyltoluene	3.594	3.538	1.6	85	-0.02
82	T	1,2,4-Trimethylbenzene	2.809	2.700	3.9	86	-0.02
83	T	n-Decane	1.339	1.255	6.3	82	-0.02
84	T	Benzyl Chloride	2.475	2.549	-3.0	85	-0.02
85	T	1,3-Dichlorobenzene	2.116	2.079	1.7	86	-0.02
86	T	1,4-Dichlorobenzene	2.111	2.062	2.3	86	-0.02
87	T	sec-Butylbenzene	3.852	3.768	2.2	85	-0.02
88	T	p-Isopropyltoluene	3.170	3.150	0.6	86	-0.01
89	T	1,2,3-Trimethylbenzene	2.693	2.693	0.0	86	-0.02
90	T	1,2-Dichlorobenzene	1.935	1.915	1.0	86	-0.01
91	T	d-Limonene	0.986	0.922	6.5	82	-0.01
92	T	1,2-Dibromo-3-Chloropropane	0.739	0.841	-13.8	86	-0.02
93	T	n-Undecane	1.388	1.281	7.7	80	-0.01
94	T	1,2,4-Trichlorobenzene	0.422	0.457	-8.3	85	-0.01
95	T	Naphthalene	4.012	4.237	-5.6	84	-0.02
96	T	n-Dodecane	1.240	1.158	6.6	78	-0.02
97	T	Hexachloro-1,3-butadiene	0.799	0.792	0.9	84	-0.02

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603530

Internal Standard Area and RT Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Rusty Bravo/Aristotle Bragasin
Sampling Media: Summa Canister(s)
Test Notes:

Lab File ID: 01030702.D
Date Analyzed: 01/03/07
Time Analyzed: 10:16

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	222420	9.32	768518	11.29	324259	16.13
	Upper Limit	311388	9.65	1075925	11.62	453963	16.46
	Lower Limit	133452	8.99	461111	10.96	194555	15.80
	Client Sample ID						
01	Method Blank	217058	9.30	814042	11.27	330635	16.13
02	Lab Control Sample	226273	9.33	791147	11.29	334783	16.13
03	Duplicate Lab Control Sample	227499	9.32	802311	11.29	341952	16.13
04	WDI-VW-62-12-21-06 Ambient	225238	9.31	806469	11.28	330359	16.13
05	WDI-VW-62-12-21-06 Ambient (Lab Duplicate)	224717	9.30	805322	11.28	331715	16.13
06	WDI-VW-36-S-12-21-06	223007	9.31	804208	11.28	332705	16.13
07	WDI-VW-62-D-12-21-06	228605	9.30	824976	11.28	343707	16.13
08	WDI-VW-36-D-12-21-06	229298	9.30	823596	11.28	345896	16.12
09	WDI-VW-62-I-12-21-06	233972	9.31	824898	11.28	398812	16.13
10	WDI-VW-42-S-12-22-06	239002	9.29	860444	11.27	354024	16.12
11	WDI-VW-42-D-12-22-06	235242	9.30	852899	11.28	360054	16.12
12	WDI-VW-42-12-22-06 Ambient	242158	9.30	865986	11.27	359278	16.12
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: MJ Date: 1/10/07

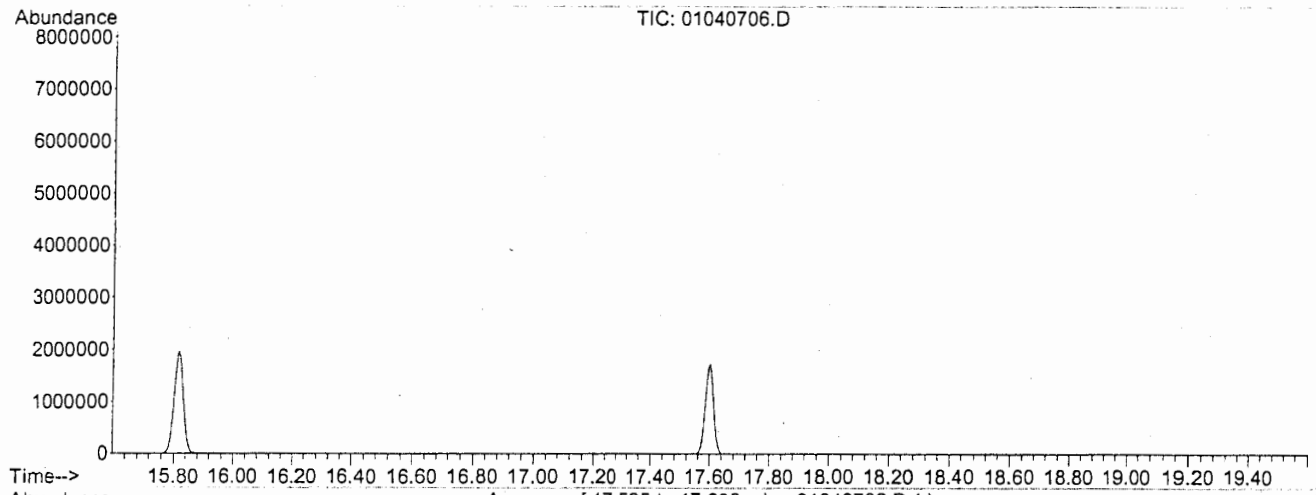
BFB

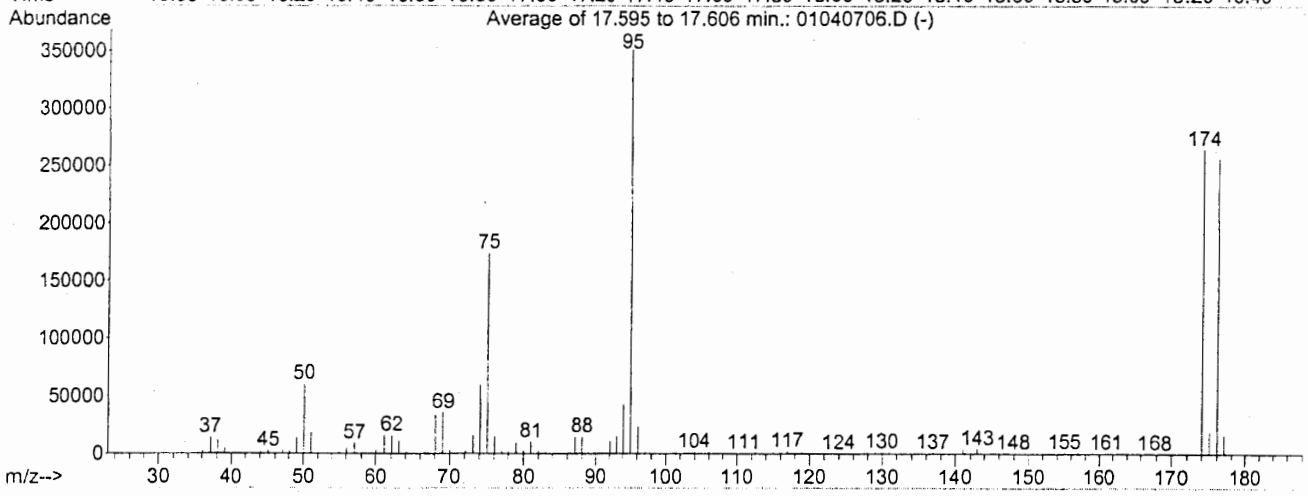
Data Path : J:\MS08\Data\2007_01\04\
Data File : 01040706.D
Acq On : 4 Jan 2007 13:07
Operator : LM
Sample : 25ng TO-15 BFB STD
Misc : S15-01030704
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8010407.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Fri Dec 22 08:28:40 2006





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.1	60034	PASS
75	95	30	66	49.6	173994	PASS
95	95	100	100	100.0	350656	PASS
96	95	5	9	6.5	22954	PASS
173	174	0.00	2	0.2	586	PASS
174	95	50	120	75.4	264320	PASS
175	174	4	9	7.3	19282	PASS
176	174	93	101	97.0	256384	PASS
177	176	5	9	6.4	16282	PASS

LM 1/04/07

154

Method Path : J:\MS08\METHODS\
Method File : R8010407.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Jan 04 17:57:26 2007
Response Via : Initial Calibration

✓ all OK for Targets

Calibration Files
0.5 =01040707.D 1 =01040708.D 5 =01040709.D 25 =01040710.D
50 =01040711.D 100 =01040712.D =

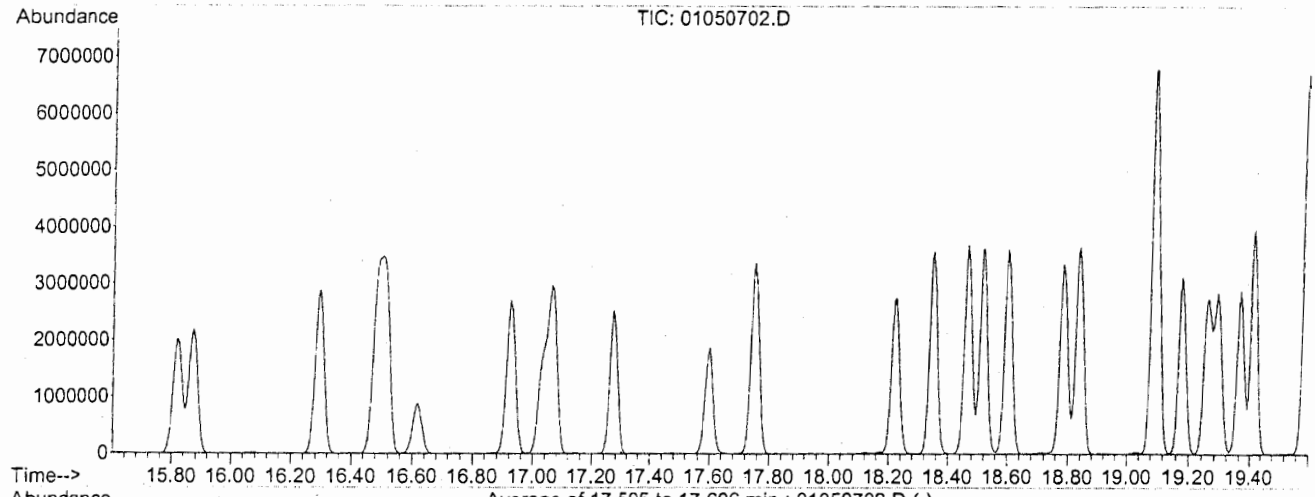
		Compound	0.5	1	5	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I	----------ISTD----------							
2)	T	Propene	2.121	1.856	1.638	1.157	1.109	1.113	1.499	29.10
3)	T	Dichlorodifluorom	4.450	4.083	3.763	3.244	3.078	3.023	3.607	16.23
4)	T	Chloromethane	2.824	2.753	2.692	2.361	2.165	2.126	2.487	12.40
5)	T	Freon 114	1.365	1.327	1.125	0.972	0.894	0.841	1.087	20.46
6)	T	Vinyl Chloride	2.295	2.162	1.919	1.474	1.434	1.437	1.787	21.83
7)	T	1,3-Butadiene	1.682	1.582	1.496	1.247	1.220	1.163	1.398	15.44
8)	T	Bromomethane	1.763	1.630	1.508	1.282	1.307	1.388	1.480	12.86
9)	T	Chloroethane	1.433	1.388	1.303	1.103	1.084	1.092	1.234	12.97
10)	T	Ethanol	1.164	0.983	0.907	1.017	1.000	1.006	1.013	8.27
11)	T	Acetonitrile	2.780	2.682	2.468	2.547	2.492	2.494	2.577	4.88
12)	T	Acrolein	0.996	0.959	0.938	0.902	0.885	0.874	0.926	5.10
13)	T	Acetone	1.965	1.596	1.453	1.185	1.219	1.232	1.441	20.98
14)	T	Trichlorofluorome	2.949	2.774	2.641	2.387	2.376	2.417	2.591	9.17
15)	T	Isopropanol	4.230	4.269	3.670	3.841	3.288	2.990	3.715	13.71
16)	T	Acrylonitrile	1.966	1.974	1.988	1.938	1.917	1.884	1.944	2.01
17)	T	1,1-Dichloroethen	1.688	1.690	1.652	1.522	1.494	1.474	1.587	6.34
18)	T	tert-Butanol	4.300	4.404	4.051	3.676	3.555	3.103	3.848	12.86
19)	T	Methylene Chlorid	2.108	1.945	1.834	1.629	1.618	1.598	1.788	11.72
20)	T	Allyl Chloride	1.782	1.805	1.905	1.921	1.906	1.917	1.873	3.31
21)	T	Trichlorotrifluor	1.295	1.219	0.906	0.744	0.877	1.079	1.020	20.93
22)	T	Carbon Disulfide	8.662	7.203	6.572	5.815	5.718	5.644	6.602	17.82
23)	T	trans-1,2-Dichlor	2.416	2.416	2.308	2.143	2.235	2.284	2.300	4.59
24)	T	1,1-Dichloroethan	2.951	2.883	2.512	2.355	2.250	2.201	2.525	12.77
25)	T	Methyl tert-Butyl	4.806	4.715	3.844	3.533	3.770	3.942	4.102	12.89
26)	T	Vinyl Acetate	0.329	0.341	0.326	0.315	0.331	0.337	0.330	2.79
27)	T	2-Butanone	1.144	1.101	1.043	1.007	1.032	1.046	1.062	4.74
28)	T	cis-1,2-Dichloroe	2.278	2.211	2.191	2.085	2.082	2.113	2.160	3.67
29)	T	Diisopropyl Ether	1.225	1.276	1.104	1.026	1.048	1.030	1.118	9.61
30)	T	Ethyl Acetate	0.595	0.550	0.525	0.477	0.478	0.455	0.513	10.35
31)	T	n-Hexane	2.441	2.350	1.875	1.617	1.741	1.787	1.968	17.39
32)	T	Chloroform	2.820	2.743	2.573	2.464	2.288	2.213	2.517	9.62
33)	S	1,2-Dichloroethan	1.781	1.780	1.763	1.742	1.728	1.731	1.754	1.36
34)	T	Tetrahydrofuran	1.015	1.030	0.959	0.956	0.988	0.842	0.965	6.95
35)	T	Ethyl tert-Butyl	1.966	1.883	1.680	1.586	1.628	1.650	1.732	8.91
36)	T	1,2-Dichloroethan	2.331	2.425	2.192	2.098	2.189	2.185	2.237	5.31
37)	IR	1,4-Difluorobenzene (	----------ISTD----------							
38)	T	1,1,1-Trichloroet	0.640	0.608	0.573	0.549	0.565	0.591	0.588	5.57
39)	T	Isopropyl Acetate	0.201	0.223	0.212	0.216	0.204	0.199	0.209	4.50
40)	T	1-Butanol	0.204	0.208	0.227	0.297	0.283	0.266	0.248	16.07
41)	T	Benzene	1.556	1.528	1.415	1.321	1.300	1.274	1.399	8.64
42)	T	Carbon Tetrachlor	0.528	0.525	0.484	0.485	0.500	0.522	0.507	4.00
43)	T	Cyclohexane	0.596	0.548	0.482	0.450	0.462	0.477	0.503	11.35
44)	T	tert-Amyl Methyl	0.998	1.043	0.983	0.950	0.941	0.932	0.974	4.32
45)	T	1,2-Dichloropropa	0.348	0.353	0.342	0.337	0.328	0.326	0.339	3.22
46)	T	Bromodichlorometh	0.485	0.515	0.512	0.507	0.504	0.496	0.503	2.17
47)	T	Trichloroethene	0.384	0.382	0.360	0.347	0.339	0.333	0.358	6.11
48)	T	1,4-Dioxane	0.252	0.286	0.286	0.283	0.276	0.262	0.274	5.16
49)	T	Isooctane	1.309	1.357	1.217	1.139	1.120	1.094	1.206	8.93
50)	T	Methyl Methacryla	0.147	0.137	0.147	0.149	0.147	0.145	0.145	2.95
51)	T	n-Heptane	0.358	0.367	0.333	0.315	0.307	0.301	0.330	8.30
52)	T	cis-1,3-Dichlorop	0.591	0.623	0.627	0.607	0.577	0.562	0.598	4.33
53)	T	4-Methyl-2-pentan	0.264	0.304	0.323	0.310	0.292	0.278	0.295	7.31
54)	T	trans-1,3-Dichlor	0.547	0.559	0.573	0.579	0.560	0.559	0.563	1.98
55)	T	1,1,2-Trichloroet	0.349	0.376	0.370	0.363	0.352	0.341	0.359	3.73
56)	I	Chlorobenzene-d5 (IS3	----------ISTD----------							
57)	S	Toluene-d8 (SS2)	2.084	2.080	2.065	2.052	2.052	2.097	2.072	0.88

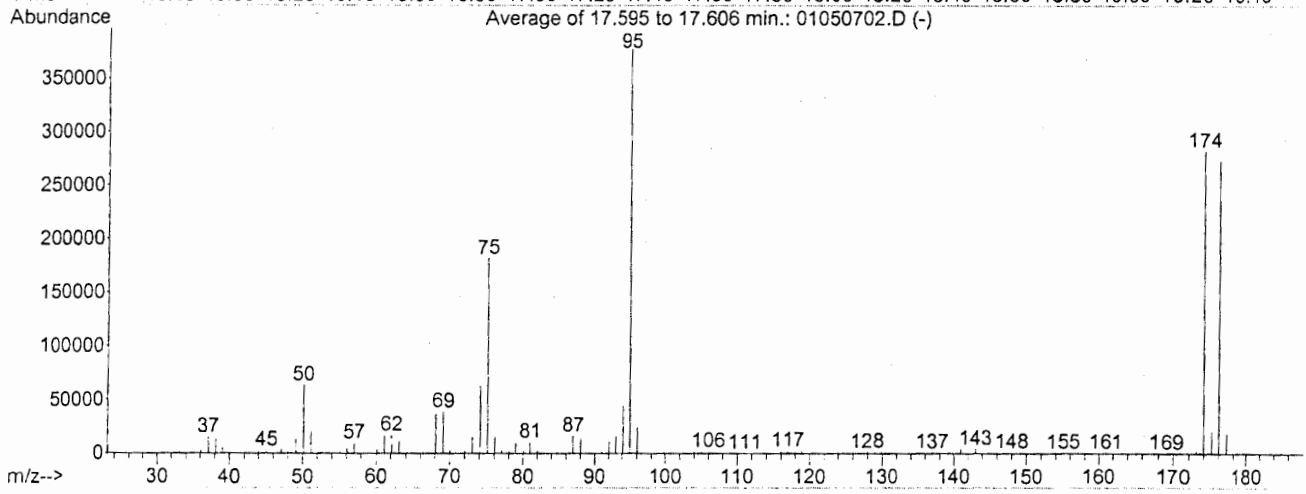
Data Path : J:\MS08\Data\2007_01\05\
Data File : 01050702.D
Acq On : 5 Jan 2007 9:37
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-01030704/S15-12260603
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Integration File: RTEINT.P

Method : J:\MS08\METHODS\R8010407.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Thu Jan 04 17:57:26 2007





AutoFind: Scans 2500, 2501, 2502; Background Corrected with Scan 2489

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	63573	PASS
75	95	30	66	48.1	181376	PASS
95	95	100	100	100.0	377045	PASS
96	95	5	9	6.4	24218	PASS
173	174	0.00	2	0.6	1700	PASS
174	95	50	120	75.0	282816	PASS
175	174	4	9	7.4	20813	PASS
176	174	93	101	96.7	273429	PASS
177	176	5	9	6.7	18243	PASS

LM 1/05/07

Data Path : J:\MS08\Data\2007_01\05\
Data File : 01050702.D
Acq On : 5 Jan 2007 9:37
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-01030704/S15-12260603
ALS Vial : 1 Sample Multiplier: 1

Data not evaluated

Quant Time: Jan 05 14:25:36 2007
Quant Method : J:\MS08\METHODS\R8010407.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Jan 04 17:57:26 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	104	0.00
2	T	Propene	1.499	1.176	21.5	106	0.00
3	T	Dichlorodifluoromethane	3.607	3.119	13.5	100	0.00
4	T	Chloromethane	2.487	2.214	11.0	97	0.00
5	T	Freon 114	1.087	0.952	12.4	102	0.00
6	T	Vinyl Chloride	1.787	1.483	17.0	105	0.00
7	T	1,3-Butadiene	1.398	1.251	10.5	104	0.00
8	T	Bromomethane	1.480	1.295	12.5	105	0.00
9	T	Chloroethane	1.234	1.101	10.8	104	0.00
10	T	Ethanol	1.013	0.992	2.1	101	0.00
11	T	Acetonitrile	2.577	2.543	1.3	104	0.00
12	T	Acrolein	0.926	0.886	4.3	102	0.00
13	T	Acetone	1.441	1.186	17.7	104	0.00
14	T	Trichlorofluoromethane	2.591	2.329	10.1	101	0.00
15	T	Isopropanol	3.715	3.785	-1.9	102	0.00
16	T	Acrylonitrile	1.944	1.928	0.8	103	0.00
17	T	1,1-Dichloroethene	1.587	1.488	6.2	102	0.00
18	T	tert-Butanol	3.848	3.707	3.7	105	0.00
19	T	Methylene Chloride	1.788	1.605	10.2	102	0.00
20	T	Allyl Chloride	1.873	1.911	-2.0	103	0.00
21	T	Trichlorotrifluoroethane	1.020	0.763	25.2	107	0.00
22	T	Carbon Disulfide	6.602	5.814	11.9	104	0.00
23	T	trans-1,2-Dichloroethene	2.300	2.149	6.6	104	0.00
24	T	1,1-Dichloroethane	2.525	2.280	9.7	101	0.00
25	T	Methyl tert-Butyl Ether	4.102	3.540	13.7	104	0.00
26	T	Vinyl Acetate	0.330	0.320	3.0	106	0.00
27	T	2-Butanone	1.062	0.994	6.4	102	0.00
28	T	cis-1,2-Dichloroethene	2.160	2.048	5.2	102	0.00
29	T	Diisopropyl Ether	1.118	1.006	10.0	102	0.00
30	T	Ethyl Acetate	0.513	0.468	8.8	102	0.00
31	T	n-Hexane	1.968	1.648	16.3	106	0.00
32	T	Chloroform	2.517	2.401	4.6	101	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.754	1.773	-1.1	106	0.00
34	T	Tetrahydrofuran	0.965	0.944	2.2	103	0.00
35	T	Ethyl tert-Butyl Ether	1.732	1.564	9.7	102	0.00
36	T	1,2-Dichloroethane	2.237	2.052	8.3	102	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	106	0.00
38	T	1,1,1-Trichloroethane	0.588	0.532	9.5	103	0.00
39	T	Isopropyl Acetate	0.209	0.206	1.4	101	0.00
40	T	1-Butanol	0.248	0.290	-16.9	104	0.00
41	T	Benzene	1.399	1.280	8.5	103	0.00
42	T	Carbon Tetrachloride	0.507	0.465	8.3	102	0.00
43	T	Cyclohexane	0.503	0.445	11.5	105	0.00
44	T	tert-Amyl Methyl Ether	0.974	0.923	5.2	103	0.00
45	T	1,2-Dichloropropane	0.339	0.325	4.1	102	0.00
46	T	Bromodichloromethane	0.503	0.486	3.4	102	0.00
47	T	Trichloroethene	0.358	0.330	7.8	101	0.00
48	T	1,4-Dioxane	0.274	0.273	0.4	102	0.00
49	T	Isooctane	1.206	1.118	7.3	104	0.00
50	T	Methyl Methacrylate	0.145	0.146	-0.7	104	0.00
51	T	n-Heptane	0.330	0.306	7.3	103	0.00

LM 1/05/07

Data Path : J:\MS08\Data\2007_01\05\
Data File : 01050702.D
Acq On : 5 Jan 2007 9:37
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-01030704/S15-12260603
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 05 14:25:36 2007
Quant Method : J:\MS08\METHODS\R8010407.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Jan 04 17:57:26 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)
2	T	cis-1,3-Dichloropropene	0.598	0.580	3.0	101	0.00
3	T	4-Methyl-2-pentanone	0.295	0.299	-1.4	102	0.00
4	T	trans-1,3-Dichloropropene	0.563	0.552	2.0	101	0.00
5	T	1,1,2-Trichloroethane	0.359	0.348	3.1	102	0.00
6	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	107	0.00
7	S	Toluene-d8 (SS2)	2.072	2.006	3.2	104	0.00
8	T	Toluene	2.970	2.724	8.3	102	0.00
9	T	2-Hexanone	1.429	1.403	1.8	102	0.00
0	T	Dibromochloromethane	0.818	0.764	6.6	100	0.00
1	T	1,2-Dibromoethane	0.831	0.789	5.1	101	0.00
2	T	Butyl Acetate	1.549	1.554	-0.3	103	0.00
3	T	n-Octane	0.559	0.533	4.7	103	0.00
4	T	Tetrachloroethene	0.720	0.666	7.5	102	0.00
5	T	Chlorobenzene	1.978	1.829	7.5	101	0.00
6	T	Ethylbenzene	3.488	3.325	4.7	101	0.00
67	T	m- & p-Xylene	2.263	2.150	5.0	101	0.00
68	T	Bromoform	0.530	0.523	1.3	101	0.00
69	T	Styrene	2.054	2.033	1.0	101	0.00
70	T	o-Xylene	2.469	2.348	4.9	101	0.00
71	T	n-Nonane	1.255	1.217	3.0	102	0.00
72	T	1,1,2,2-Tetrachloroethane	1.128	1.086	3.7	101	0.00
73	S	Bromofluorobenzene (SS3)	0.692	0.708	-2.3	107	0.00
74	T	Cumene	3.252	3.103	4.6	101	0.00
75	T	alpha-Pinene	1.652	1.596	3.4	102	0.00
76	T	n-Propylbenzene	4.226	4.089	3.2	100	0.00
77	T	3-Ethyltoluene	3.512	3.443	2.0	102	0.00
78	T	4-Ethyltoluene	3.310	3.159	4.6	99	0.00
79	T	1,3,5-Trimethylbenzene	2.922	2.784	4.7	100	0.00
80	T	alpha-Methylstyrene	1.472	1.497	-1.7	100	0.00
81	T	2-Ethyltoluene	3.559	3.457	2.9	100	0.00
82	T	1,2,4-Trimethylbenzene	2.887	2.771	4.0	100	0.00
83	T	n-Decane	1.415	1.371	3.1	100	0.00
84	T	Benzyl Chloride	2.622	2.682	-2.3	101	0.00
85	T	1,3-Dichlorobenzene	1.600	1.551	3.1	100	0.00
86	T	1,4-Dichlorobenzene	1.555	1.515	2.6	100	0.00
87	T	sec-Butylbenzene	3.770	3.687	2.2	100	0.00
88	T	p-Isopropyltoluene	3.079	2.967	3.6	99	0.00
89	T	1,2,3-Trimethylbenzene	2.768	2.700	2.5	100	0.00
90	T	1,2-Dichlorobenzene	1.478	1.444	2.3	101	0.00
91	T	d-Limonene	1.017	1.040	-2.3	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.492	0.546	-11.0	101	0.00
93	T	n-Undecane	1.174	1.150	2.0	98	0.00
94	T	1,2,4-Trichlorobenzene	0.295	0.321	-8.8	103	0.00
95	T	Naphthalene	3.082	3.479	-12.9	101	0.00
96	T	n-Dodecane	0.836	0.851	-1.8	101	0.00
97	T	Hexachloro-1,3-butadiene	0.497	0.530	-6.6	102	0.00

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

CM 1/05/07

Data Path : J:\MS08\Data\2007_01\05\
Data File : 01050704.D
Acq On : 5 Jan 2007 11:44
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-01030704/S15-12260602
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 15:52:07 2007
Quant Method : J:\MS08\METHODS\R8010407.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Jan 04 17:57:26 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	107	-0.02
2	T	Propene	1.499	1.723	-14.9	99	0.01
3	T	Dichlorodifluoromethane	3.607	3.978	-10.3	104	0.00
4	T	Chloromethane	2.487	2.632	-5.8	102	0.00
5	T	Freon 114	1.087	1.284	-18.1	104	0.00
6	T	Vinyl Chloride	1.787	2.136	-19.5	106	0.00
7	T	1,3-Butadiene	1.398	1.570	-12.3	106	0.00
8	T	Bromomethane	1.480	1.582	-6.9	104	0.00
9	T	Chloroethane	1.234	1.380	-11.8	106	0.00
10	T	Ethanol	1.013	0.908	10.4	99	-0.04
11	T	Acetonitrile	2.577	2.560	0.7	102	-0.02
12	T	Acrolein	0.926	0.982	-6.0	110	0.00
13	T	Acetone	1.441	1.780	-23.5	119	-0.02
14	T	Trichlorofluoromethane	2.591	2.698	-4.1	104	-0.01
15	T	Isopropanol	3.715	4.238	-14.1	106	-0.03
16	T	Acrylonitrile	1.944	1.950	-0.3	106	-0.02
17	T	1,1-Dichloroethene	1.587	1.619	-2.0	103	-0.01
18	T	tert-Butanol	3.848	4.421	-14.9	108	0.00
19	T	Methylene Chloride	1.788	1.844	-3.1	102	-0.02
20	T	Allyl Chloride	1.873	1.809	3.4	107	-0.01
21	T	Trichlorotrifluoroethane	1.020	1.148	-12.5	101	0.00
22	T	Carbon Disulfide	6.602	8.072	-22.3	120	-0.01
23	T	trans-1,2-Dichloroethene	2.300	2.297	0.1	102	-0.02
24	T	1,1-Dichloroethane	2.525	2.748	-8.8	102	-0.03
25	T	Methyl tert-Butyl Ether	4.102	4.555	-11.0	103	0.00
26	T	Vinyl Acetate	0.330	0.349	-5.8	109	-0.02
27	T	2-Butanone	1.062	1.131	-6.5	110	-0.01
28	T	cis-1,2-Dichloroethene	2.160	2.127	1.5	103	-0.03
29	T	Diisopropyl Ether	1.118	1.320	-18.1	111	-0.01
30	T	Ethyl Acetate	0.513	0.520	-1.4	101	-0.02
31	T	n-Hexane	1.968	2.266	-15.1	103	-0.01
32	T	Chloroform	2.517	2.632	-4.6	103	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.754	1.774	-1.1	107	-0.02
34	T	Tetrahydrofuran	0.965	1.080	-11.9	112	-0.01
35	T	Ethyl tert-Butyl Ether	1.732	1.880	-8.5	107	0.00
36	T	1,2-Dichloroethane	2.237	2.257	-0.9	100	-0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	106	-0.01
38	T	1,1,1-Trichloroethane	0.588	0.589	-0.2	103	-0.02
39	T	Isopropyl Acetate	0.209	0.215	-2.9	103	-0.01
40	T	1-Butanol	0.248	0.225	9.3	115	0.02
41	T	Benzene	1.399	1.502	-7.4	104	-0.01
42	T	Carbon Tetrachloride	0.507	0.478	5.7	97	-0.01
43	T	Cyclohexane	0.503	0.536	-6.6	104	-0.01
44	T	tert-Amyl Methyl Ether	0.974	1.021	-4.8	104	0.00
45	T	1,2-Dichloropropane	0.339	0.352	-3.8	106	0.00
46	T	Bromodichloromethane	0.503	0.497	1.2	103	-0.01
47	T	Trichloroethene	0.358	0.355	0.8	98	-0.01
48	T	1,4-Dioxane	0.274	0.281	-2.6	105	0.00
49	T	Isooctane	1.206	1.357	-12.5	106	-0.01
50	T	Methyl Methacrylate	0.145	0.133	8.3	103	0.00
51	T	n-Heptane	0.330	0.368	-11.5	107	0.00

LM 1/8/07

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Evaluate Continuing Calibration Report

Data Path : J:\MS08\Data\2007_01\05\
Data File : 01050704.D
Acq On : 5 Jan 2007 11:44
Operator : LM
Sample : 1ng TO-15 CCV STD
Misc : S15-01030704/S15-12260602
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 15:52:07 2007
Quant Method : J:\MS08\METHODS\R8010407.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Jan 04 17:57:26 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	0.598	0.599	-0.2	102	0.00
53	T	4-Methyl-2-pentanone	0.295	0.313	-6.1	109	0.00
54	T	trans-1,3-Dichloropropene	0.563	0.565	-0.4	107	-0.02
55	T	1,1,2-Trichloroethane	0.359	0.363	-1.1	103	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	109	0.00
57	S	Toluene-d8 (SS2)	2.072	2.040	1.5	107	-0.01
58	T	Toluene	2.970	3.067	-3.3	105	-0.01
59	T	2-Hexanone	1.429	1.440	-0.8	105	0.00
60	T	Dibromochloromethane	0.818	0.804	1.7	102	-0.01
61	T	1,2-Dibromoethane	0.831	0.839	-1.0	108	0.00
62	T	Butyl Acetate	1.549	1.545	0.3	105	0.00
63	T	n-Octane	0.559	0.580	-3.8	105	0.00
64	T	Tetrachloroethene	0.720	0.735	-2.1	104	0.00
65	T	Chlorobenzene	1.978	2.030	-2.6	103	0.00
66	T	Ethylbenzene	3.488	3.498	-0.3	104	0.00
67	T	m- & p-Xylene	2.263	2.311	-2.1	105	-0.02
68	T	Bromoform	0.530	0.501	5.5	101	-0.01
69	T	Styrene	2.054	2.002	2.5	103	0.00
70	T	o-Xylene	2.469	2.478	-0.4	103	0.00
71	T	n-Nonane	1.255	1.318	-5.0	106	0.00
72	T	1,1,2,2-Tetrachloroethane	1.128	1.167	-3.5	106	0.00
73	S	Bromofluorobenzene (SS3)	0.692	0.708	-2.3	112	0.00
74	T	Cumene	3.252	3.305	-1.6	102	0.00
75	T	alpha-Pinene	1.652	1.617	2.1	101	0.00
76	T	n-Propylbenzene	4.226	4.303	-1.8	104	0.00
77	T	3-Ethyltoluene	3.512	3.495	0.5	99	0.00
78	T	4-Ethyltoluene	3.310	3.433	-3.7	106	0.00
79	T	1,3,5-Trimethylbenzene	2.922	2.998	-2.6	104	0.00
80	T	alpha-Methylstyrene	1.472	1.429	2.9	103	0.00
81	T	2-Ethyltoluene	3.559	3.655	-2.7	105	0.00
82	T	1,2,4-Trimethylbenzene	2.887	2.978	-3.2	103	0.00
83	T	n-Decane	1.415	1.486	-5.0	107	0.00
84	T	Benzyl Chloride	2.622	2.562	2.3	107	0.00
85	T	1,3-Dichlorobenzene	1.600	1.689	-5.6	106	0.00
86	T	1,4-Dichlorobenzene	1.555	1.613	-3.7	105	0.00
87	T	sec-Butylbenzene	3.770	3.929	-4.2	105	0.00
88	T	p-Isopropyltoluene	3.079	3.206	-4.1	103	0.00
89	T	1,2,3-Trimethylbenzene	2.768	2.861	-3.4	104	0.00
90	T	1,2-Dichlorobenzene	1.478	1.580	-6.9	108	0.00
91	T	d-Limonene	1.017	0.999	1.8	103	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.492	0.488	0.8	121	0.00
93	T	n-Undecane	1.174	1.265	-7.8	112	0.00
94	T	1,2,4-Trichlorobenzene	0.295	0.315	-6.8	120	0.00
95	T	Naphthalene	3.082	3.117	-1.1	118	0.00
96	T	n-Dodecane	0.836	1.014	-21.3	121	0.00
97	T	Hexachloro-1,3-butadiene	0.497	0.544	-9.5	119	0.00

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

1/11/07

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Data Path : J:\MS08\Data\2007_01\05\
Data File : 01050716.D
Acq On : 5 Jan 2007 21:35
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12260603(closing CCV)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 15:46:42 2007
Quant Method : J:\MS08\METHODS\R8010407.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Jan 04 17:57:26 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	115	0.00
2	T	Propene	1.499	1.082	27.8	108	0.00
3	T	Dichlorodifluoromethane	3.607	3.062	15.1	109	0.00
4	T	Chloromethane	2.487	2.219	10.8	108	0.00
5	T	Freon 114	1.087	0.931	14.4	110	0.00
6	T	Vinyl Chloride	1.787	1.417	20.7	111	0.00
7	T	1,3-Butadiene	1.398	1.197	14.4	110	0.00
8	T	Bromomethane	1.480	1.266	14.5	114	0.00
9	T	Chloroethane	1.234	1.057	14.3	110	0.00
10	T	Ethanol	1.013	0.956	5.6	108	0.00
11	T	Acetonitrile	2.577	2.339	9.2	106	0.00
12	T	Acrolein	0.926	0.851	8.1	109	0.00
13	T	Acetone	1.441	1.124	22.0	109	0.00
14	T	Trichlorofluoromethane	2.591	2.309	10.9	111	0.00
15	T	Isopropanol	3.715	3.524	5.1	105	0.00
16	T	Acrylonitrile	1.944	1.802	7.3	107	0.00
17	T	1,1-Dichloroethene	1.587	1.456	8.3	110	0.00
18	T	tert-Butanol	3.848	3.487	9.4	109	0.00
19	T	Methylene Chloride	1.788	1.556	13.0	110	0.00
20	T	Allyl Chloride	1.873	1.824	2.6	109	0.00
21	T	Trichlorotrifluoroethane	1.020	0.717	29.7	111	0.00
22	T	Carbon Disulfide	6.602	5.522	16.4	109	0.00
23	T	trans-1,2-Dichloroethene	2.300	2.033	11.6	109	0.00
24	T	1,1-Dichloroethane	2.525	2.224	11.9	109	0.00
25	T	Methyl tert-Butyl Ether	4.102	3.373	17.8	110	0.00
26	T	Vinyl Acetate	0.330	0.311	5.8	113	0.00
27	T	2-Butanone	1.062	0.943	11.2	108	0.00
28	T	cis-1,2-Dichloroethene	2.160	1.964	9.1	108	0.00
29	T	Diisopropyl Ether	1.118	0.970	13.2	109	0.00
30	T	Ethyl Acetate	0.513	0.446	13.1	108	0.00
31	T	n-Hexane	1.968	1.515	23.0	108	0.00
32	T	Chloroform	2.517	2.316	8.0	108	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.754	1.711	2.5	113	0.00
34	T	Tetrahydrofuran	0.965	0.892	7.6	107	0.00
35	T	Ethyl tert-Butyl Ether	1.732	1.492	13.9	108	0.00
36	T	1,2-Dichloroethane	2.237	1.990	11.0	109	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	114	0.00
38	T	1,1,1-Trichloroethane	0.588	0.526	10.5	109	0.00
39	T	Isopropyl Acetate	0.209	0.203	2.9	106	0.00
40	T	1-Butanol	0.248	0.279	-12.5	107	0.00
41	T	Benzene	1.399	1.255	10.3	108	0.00
42	T	Carbon Tetrachloride	0.507	0.460	9.3	108	0.00
43	T	Cyclohexane	0.503	0.436	13.3	110	0.00
44	T	tert-Amyl Methyl Ether	0.974	0.906	7.0	108	0.00
45	T	1,2-Dichloropropane	0.339	0.319	5.9	107	0.00
46	T	Bromodichloromethane	0.503	0.480	4.6	108	0.00
47	T	Trichloroethene	0.358	0.333	7.0	109	0.00
48	T	1,4-Dioxane	0.274	0.270	1.5	109	0.00
49	T	Isooctane	1.206	1.069	11.4	107	0.00
50	T	Methyl Methacrylate	0.145	0.145	0.0	111	0.00
51	T	n-Heptane	0.330	0.298	9.7	108	0.00

LM 1/8/07

Data Path : J:\MS08\Data\2007_01\05\
Data File : 01050716.D
Acq On : 5 Jan 2007 21:35
Operator : LM
Sample : 25ng TO-15 CCV STD
Misc : S15-12190601/S15-12260603(closing CCV)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 15:46:42 2007
Quant Method : J:\MS08\METHODS\R8010407.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Thu Jan 04 17:57:26 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	0.598	0.573	4.2	107	0.00
53	T	4-Methyl-2-pentanone	0.295	0.288	2.4	106	0.00
54	T	trans-1,3-Dichloropropene	0.563	0.547	2.8	107	0.00
55	T	1,1,2-Trichloroethane	0.359	0.347	3.3	109	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	114	0.00
57	S	Toluene-d8 (SS2)	2.072	2.026	2.2	113	0.00
58	T	Toluene	2.970	2.729	8.1	109	0.00
59	T	2-Hexanone	1.429	1.355	5.2	106	0.00
60	T	Dibromochloromethane	0.818	0.775	5.3	109	0.00
61	T	1,2-Dibromoethane	0.831	0.793	4.6	109	0.00
62	T	Butyl Acetate	1.549	1.489	3.9	106	0.00
63	T	n-Octane	0.559	0.523	6.4	107	0.00
64	T	Tetrachloroethene	0.720	0.674	6.4	110	0.00
65	T	Chlorobenzene	1.978	1.844	6.8	109	0.00
66	T	Ethylbenzene	3.488	3.325	4.7	108	0.00
67	T	m- & p-Xylene	2.263	2.168	4.2	109	0.00
68	T	Bromoform	0.530	0.526	0.8	109	0.00
69	T	Styrene	2.054	2.039	0.7	108	0.00
70	T	o-Xylene	2.469	2.357	4.5	108	0.00
71	T	n-Nonane	1.255	1.191	5.1	106	0.00
72	T	1,1,2,2-Tetrachloroethane	1.128	1.077	4.5	107	0.00
73	S	Bromofluorobenzene (SS3)	0.692	0.716	-3.5	116	0.00
74	T	Cumene	3.252	3.111	4.3	108	0.00
75	T	alpha-Pinene	1.652	1.589	3.8	108	0.00
76	T	n-Propylbenzene	4.226	4.072	3.6	107	0.00
77	T	3-Ethyltoluene	3.512	3.441	2.0	109	0.00
78	T	4-Ethyltoluene	3.310	3.178	4.0	106	0.00
79	T	1,3,5-Trimethylbenzene	2.922	2.805	4.0	107	0.00
80	T	alpha-Methylstyrene	1.472	1.483	-0.7	106	0.00
81	T	2-Ethyltoluene	3.559	3.465	2.6	107	0.00
82	T	1,2,4-Trimethylbenzene	2.887	2.761	4.4	107	0.00
83	T	n-Decane	1.415	1.364	3.6	107	0.00
84	T	Benzyl Chloride	2.622	2.670	-1.8	107	0.00
85	T	1,3-Dichlorobenzene	1.600	1.560	2.5	108	0.00
86	T	1,4-Dichlorobenzene	1.555	1.510	2.9	107	0.00
87	T	sec-Butylbenzene	3.770	3.677	2.5	107	0.00
88	T	p-Isopropyltoluene	3.079	2.987	3.0	106	0.00
89	T	1,2,3-Trimethylbenzene	2.768	2.700	2.5	107	0.00
90	T	1,2-Dichlorobenzene	1.478	1.431	3.2	107	0.00
91	T	d-Limonene	1.017	1.027	-1.0	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.492	0.540	-9.8	107	0.00
93	T	n-Undecane	1.174	1.158	1.4	106	0.00
94	T	1,2,4-Trichlorobenzene	0.295	0.308	-4.4	105	0.00
95	T	Naphthalene	3.082	3.397	-10.2	105	0.00
96	T	n-Dodecane	0.836	0.842	-0.7	107	0.00
97	T	Hexachloro-1,3-butadiene	0.497	0.525	-5.6	108	0.00

cm 1/8/07

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2603530

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: 01050702.D
Date Analyzed: 01/05/07
Time Analyzed: 09:37

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	367257	9.07	1575674	11.00	823323	15.82
	Upper Limit	514160	9.40	2205944	11.33	1152652	16.15
	Lower Limit	220354	8.74	945404	10.67	493994	15.49
	Client Sample ID						
01	Method Blank	381707	9.04	1810107	10.98	883097	15.81
02	Lab Control Sample	370286	9.06	1536374	10.99	788933	15.82
03	Duplicate Lab Control Sample	383488	9.06	1649486	11.00	843006	15.82
04	WDI-VW-30-I-12-21-06 (Dilution)	432504	9.04	1873909	10.98	937010	15.81
05	WDI-VW-Trip Blank -01	429378	9.04	1990118	10.98	962713	15.81
06	WDI-VW-Trip Blank -02	414669	9.04	1918092	10.97	940310	15.81
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

Data not evaluated

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

Verified by: MJ Date: 1/10/07

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
28	12/22/06 4:07	12210628.D	TO-15 BFB STD	S15-12190601	LM	1	Passed
29	12/22/06 4:43	12210629.D	0.5ng TO-15 ICAL STD	S15-12190601/S15-12150605	LM	1	ICAL Passed for all
30	12/22/06 5:19	12210630.D	1.0ng TO-15 ICAL STD	S15-12190601/S15-12150605	LM	1	compounds
31	12/22/06 5:55	12210631.D	5ng TO-15 ICAL STD	S15-12190601/S15-12150605	LM	1	0.5ng-> 100ng
32	12/22/06 6:31	12210632.D	25ng TO-15 ICAL STD	S15-12190601/S15-12150607	LM	1	
33	12/22/06 7:07	12210633.D	50ng TO-15 ICAL STD	S15-12190601/S15-12150607	LM	1	
34	12/22/06 7:43	12210634.D	100ng TO-15 ICAL STD	S15-12190601/S15-12150607	LM	1	
35	12/22/06 8:18	12210635.D	25ng TO-15 ICv STD	S15-12190601/S15-12150603	LM	4	Passed all comp, except 1-Butanal

	1	12/22/06 9:09	12220601.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Passed
	2	12/22/06 10:09	12220602.D	CAS Can QC#1 12/20/06 (1000ml)	SC00115	LM	2	Passed43 only>1ng
	3	12/22/06 11:15	12220603.D	TO-15 Method Blank (1000ml)	S15-12190601(Qc tank #481240720411)	LM	1	Passed
	4	12/22/06 11:56	12220604.D	1ng TO-15 CCV STD	S15-12190601/S15-120050605	LM	1	Passed
	5	12/22/06 12:32	12220605.D	25ng TO-15 LCS STD	S15-12190601/S15-120050603	LM	4	Passed
red as MB	6	12/22/06 13:09	12220606.D	25ng TO-15 LCSD STD	S15-12190601/S15-120050603	LM	4	Passed, Passed as Dup
	7	12/22/06 13:46	12220607.D	P2603419-033 (1.5ml)	[redacted].1,10.1)	LM	1	
	8	12/22/06 14:23	12220608.D	P2603419-033 dil (0.5ml)	[redacted]0.1,10.1)	LM	1	
led as	9	12/22/06 14:58	12220609.D	P2603419-034 (1.0ml)	[redacted](0.0,10.2)	LM	1	
MSO2	10	12/22/06 15:38	12220610.D	P2603419-035 (0.60ml)	[redacted]1.9,10.1)	LM	1	
ighs.	11	12/22/06 16:14	12220611.D	P2603419-036 (0.30ml)	[redacted](3.2,10.2)	LM	1	
	12	12/22/06 16:52	12220612.D	P2603419-038 (0.10ml)	[redacted]3.2,10.1)	LM	1	
higher run	13	12/22/06 17:27	12220613.D	P2603419-037 (0.20ml)	[redacted]1.0,10.2)	LM	1	
	14	12/22/06 18:28	12220614.D	P2603419-039 (0.025ml)	[redacted]-0.5,10.5)	LM	1	Cancel file, Run higher
a Dup	15	12/22/06 19:04	12220615.D	P2603419-036 (25ml)	[redacted](3.2,10.2)	LM	5	
	16	12/22/06 19:39	12220616.D	P2603419-036 dup (25ml)	[redacted].2,10.2)	LM	5	Passed as Dup
p.	17	12/22/06 20:15	12220617.D	P2603419-029 (200ml)	[redacted]1.8,10.1)	LM	6	
	18	12/22/06 20:51	12220618.D	blank (200ml)	rinse	LM	1	
	19	12/22/06 21:32	12220619.D	P2603427-001 (1000ml)	[redacted]-4.5,3.6)	LM	9	
	20	12/22/06 22:13	12220620.D	P2603427-001 dup (1000ml)	[redacted]-4.5,3.6)	LM	9	Passed, extra Dup.
	21	12/22/06 22:54	12220621.D	P2603427-002 (1000ml)	[redacted]-2.5,3.5)	LM	10	
	22	12/22/06 23:34	12220622.D	P2603427-003 (1000ml)	[redacted]-4.2,3.6)	LM	11	
higher.	23	12/23/06 0:15	12220623.D	P2603427-004 (1000ml)	[redacted]-4.4,3.6)	LM	12	
	24	12/23/06 0:56	12220624.D	P2603427-005 (1000ml)	[redacted]-2.5,3.5)	LM	13	
ded	25	12/23/06 1:36	12220625.D	P2603427-006 (1000ml)	[redacted](-3.9,3.5)	LM	8	
	26	12/23/06 2:17	12220626.D	P2603444-001 (1000ml)	[redacted](0.2,3.5)	LM	2	
	27	12/23/06 2:53	12220627.D	P2603432-001 (500ml)	[redacted] (-3.2,3.5)	LM	14	
	28	12/23/06 3:29	12220628.D	blank(100)	rinse	LM	1	
	29	12/23/06 4:10	12220629.D	CAS Can QC#1 (1000ml)	AC00975	LM	7	
	30	12/23/06 4:51	12220630.D	CAS Can QC#3 DR 12/20/06 (1000ml)	AC00649	LM	15	Failed.

	DATE/TIME	FILENAME	SAMPLE ID	MISC. INFO	AS POS	INIT	COMMENT
26	12/27/06 1:47	12260626.D	CAS Can CC#3 12/22/06 (1.0L)	AC00635	4	RB	Passed
27	12/27/06 2:27	12260627.D	CAS Can CC#2 12/15/06 (1.0L)	SC00197	5	↓	
1	12/27/06 9:00	12270601.D	S15-12150608 (125mL)	Test	C	RB	
2	12/27/06 9:47	12270602.D	S15-12150608 (125mL)	Test	C		
3	12/27/06 10:36	12270603.D	S15-12040605 (125mL)	Test	C		
4	12/27/06 11:27	12270604.D	S15-12040605 (125mL)	Test	C	↓	
5	12/27/06 14:53	12270605.D	25ng TO-15 CCV STD	S15-12160601/S15-12150608	C	AB	
6	12/27/06 15:34	12270606.D	25ng TO-15 CCV STD	S15-12270601/S15-12150608	C		
7	12/27/06 16:17	12270607.D	5ng TO-15 STD check	S15-12270601/S15-12150606	B		
8	12/27/06 17:16	12270608.D	25ng TO-15 STD check	S15-12270601/S15-12150608	C		
9	12/27/06 17:53	12270609.D	1ng TO-15 STD check	S15-12270601/S15-12150606	B		
10	12/27/06 18:30	12270610.D	0.5ng TO-15 ICAL STD	S15-12270601/S15-12150606	B		ICAL Good 0.5-100ng except
11	12/27/06 19:06	12270611.D	1ng TO-15 ICAL STD	S15-12270601/S15-12150606	B		2-EtOH, Acetone, ~~Vinyl Acetate~~
12	12/27/06 19:42	12270612.D	5ng TO-15 ICAL STD	S15-12270601/S15-12150606	B		2-Butanone, ~~t-Butanol~~
13	12/27/06 20:19	12270613.D	25ng TO-15 ICAL STD	S15-12270601/S15-12150608	C		
14	12/27/06 20:55	12270614.D	50ng TO-15 ICAL STD	S15-12270601/S15-12150608	C		
15	12/27/06 21:31	12270615.D	100ng TO-15 ICAL STD	S15-12270601/S15-12150608	C		
16	12/27/06 22:08	12270616.D	25ng TO-15 ICV Std	S15-12270601/S15-12150601	2	↓	PASSED

tone, etc.

chlorotoluene.

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	12/29/06 10:00	12290601.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	AB	1	Passed
2	12/29/06 10:50	12290602.D	Method Blank (1000m)	S15-12190601	AB	1	Passed
3	12/29/06 11:35	12290603.D	25ng TO-15 LCS	S15-12190601/S15-12150603	AB	2	Passed
4	12/29/06 12:20	12290604.D	25ng TO-15 LCS Dup	S15-12190601/S15-12150603	AB	2	Passed
5	12/29/06 12:56	12290605.D	1ng TO-15 CRQL check STD	S15-12190601/S15-12150605	AB	1	Passed
6	12/29/06 13:49	12290606.D	P2603502-011 (1000ml)	TRC WDI-VW-37-D-12-20-06 (-2.7, 3.5)	AB	5	
7	12/29/06 14:45	12290607.D	P2603530-001 (1000ml)	TRC WDI-VW-61-S-12-20-06 (-2.4, 3.5)	AB	4	
8	12/29/06 15:26	12290608.D	P2603530-001 (1000ml)	TRC WDI-VW-61-S-12-20-06 (-2.4, 3.5)	AB	4	
9	12/29/06 16:07	12290609.D	P2603530-005 (1000ml)	TRC WDI-VW-51-I-12-21-06 (-2.2, 3.5)	AB	9	
0	12/29/06 16:50	12290610.D	P2603530-005 (1000ml) dup	TRC WDI-VW-51-I-12-21-06 (-2.2, 3.5)	AB	9	
1	12/29/06 17:29	12290611.D	P2603512-009 (15ml)	[redacted], 10.5)	AB	1	
2	12/29/06 18:11	12290612.D	P2603512-010 (4.0ml)	[redacted].2, 10.2)	AB	1	
3	12/29/06 18:46	12290613.D	P2603512-009 (4.0ml)	[redacted], 10.5)	AB	1	
4	12/29/06 19:22	12290614.D	P2603502-011 Dil (100ml)	TRC WDI-VW-37-D-12-20-06 (-2.7, 3.5)	AB	5	
5	12/29/06 20:03	12290615.D	P2603530-002 (1000ml)	TRC WDI-VW-61-I-12-20-06 (-2.6, 3.5)	AB	12	
6	12/29/06 20:43	12290616.D	P2603530-003 (1000ml)	TRC WDI-VW-61-D-12-20-06 (-2.7, 3.5)	AB	13	
7	12/29/06 21:19	12290617.D	25ng TO-15 CCV std (Closing)	S15-12190601/S15-12150607	AB	1	Freon 114 bias low
8	12/29/06 21:55	12290618.D	Blank	S15-12190601	AB	1	
9	12/29/06 22:31	12290619.D	P2603512-004 Dil (50ml)	[redacted].2, 10.6)	AB	15	
20	12/29/06 23:08	12290620.D	P2603512-005 Dil (50ml)	[redacted]0.1, 10.2)	AB	16	
21	12/29/06 23:44	12290621.D	P2603512-006 (250ml)	[redacted]2, 10.0)	AB	8	
22	12/30/06 0:21	12290622.D	P2603512-007 (60ml)	[redacted]2, 10.2) LM 1/9/07	AB	10	
23	12/30/06 0:58	12290623.D	P2603512-008 (50ml)	[redacted].1, 10.2)	AB	11	
24	12/30/06 1:35	12290624.D	P2603445-001 (25ml)	[redacted]0.5, 3.6)	AB	6	
25	12/30/06 2:11	12290625.D	P2603445-002 (80ml)	[redacted]2, 3.6)	AB	7	
26	12/30/06 2:47	12290626.D	Blank		AB	1	

1	1/2/07 9:12	01020701.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Hexane, Freon 114 bias low
2	1/2/07 10:52	01020702.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	↑
3	1/2/07 11:41	01020703.D	5ng TO-15 CCV STD	S15-12190601/S15-12150605	LM	1	Passed all comp
4	1/2/07 12:26	01020704.D	5ng TO-15 CCV STD	S15-12190601/S15-12150605	LM	1	Passed all comp.
5	1/2/07 13:16	01020705.D	TO-15 Method Blank (1000ml)	S15-12190601	LM	1	Passed
6	1/2/07 14:06	01020706.D	25ng TO-15 LCS STD	S15-12190601/S15-12150603	LM	2	Passed
7	1/2/07 14:47	01020707.D	P2603445-001 dil (1.0ml)	[redacted]0.5,3.6)	LM	1	
8	1/2/07 15:27	01020708.D	P2603445-002 dil(40.0ml)	[redacted]0.2,3.6)	LM	7	
9	1/2/07 16:06	01020709.D	P2603447-008 (2.0ml)	[redacted]5.6,3.6)	LM	1	Case file, Run higher Vol
10	1/2/07 16:56	01020710.D	P2603477-008 (1000ml)	[redacted]-5.6,3.6)	LM	4	Passed
11	1/2/07 17:40	01020711.D	P2603477-008 dup (1000ml)	[redacted]5.6,3.6)	LM	4	Passed as Dup.
12	1/2/07 18:16	01020712.D	blank (100ml)	S15-12210602(test)	LM	1	
13	1/2/07 19:32	01020713.D	P2603477-001 (1000ml)	[redacted]-5.6,3.7)	LM	4	
14	1/2/07 20:13	01020714.D	P2603477-002 (1000ml)	[redacted]-4.5,3.6)	LM	5	
15	1/2/07 20:54	01020715.D	P2603477-003 (1000ml)	[redacted].1,3.6)	LM	6	

	Date/Tim
16	1/2/07 21:
17	1/2/07 22:
18	1/2/07 22:
19	1/2/07 23:
20	1/3/07 0:
21	1/3/07 0:
22	1/3/07 1:
23	1/3/07 2:
24	1/3/07 2:
25	1/3/07 3:
26	1/3/07 4:
27	1/3/07 4:
28	1/3/07 5:
1	1/3/07 9:
2	1/3/07 10
3	1/3/07 11
4	1/3/07 12
5	1/3/07 1:
6	1/3/07 1:
7	1/3/07 1
8	1/3/07 1:
9	1/3/07 1:
10	1/3/07 1
11	1/3/07 1
12	1/3/07 1
13	1/3/07 1
14	1/3/07 1
15	1/3/07 2
16	1/3/07 2
17	1/3/07 2
18	1/3/07 2
19	1/3/07 2
20	1/3/07 2
21	1/4/07
22	1/4/07
23	1/4/07
24	1/4/07
25	1/4/07

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
16	1/2/07 21:34	01020716.D	P2603477-004 (1000ml)	[redacted](-5.6,3.7)	LM	7	
17	1/2/07 22:15	01020717.D	P2603477-005 (1000ml)	[redacted]5.6,3.7)	LM	8	
18	1/2/07 22:55	01020718.D	P2603477-006 (1000ml)	[redacted]1,3.5)	LM	9	
19	1/2/07 23:36	01020719.D	P2603477-007 (1000ml)	[redacted]6.6,3.6)	LM	10	
20	1/3/07 0:16	01020720.D	P2603477-009 (1000ml)	[redacted]5.8,3.7)	LM	11	
21	1/3/07 0:52	01020721.D	P2603481-001 (500ml)	[redacted].4,3.6)	LM	12	CASEFILE, MC IL
22	1/3/07 1:28	01020722.D	P2603481-002 (100ml)	[redacted]3.3,3.5)	LM	13	↓
23	1/3/07 2:09	01020723.D	P2603481-003 (1000ml)	[redacted]1.7,3.5)	LM	14	
24	1/3/07 2:49	01020724.D	P2603481-004 (1000ml)	[redacted]4.0,3.5)	LM	15	
25	1/3/07 3:26	01020725.D	P2603481-005 (100ml)	[redacted](-2.4,3.5)	LM	16	CASEFILE, MC IL
26	1/3/07 4:02	01020726.D	P2603481-006 (200ml)	[redacted]3.8,3.7)	LM	2	↓
27	1/3/07 4:38	01020727.D	P2603481-007 (200ml)	[redacted]2.3,3.6)	LM	3	
28	1/3/07 5:14	01020728.D	blank (200ml)	rinse system	LM	1	

1	1/3/07 9:00	01030701.D	blank	S15-12190601	LM	1	
2	1/3/07 10:15	01030702.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	Passed, new filament
3	1/3/07 11:35	01030703.D	TO-15 Method Blank (1000ml)	S15-12190601	LM	1	Passed
4	1/3/07 12:21	01030704.D	1ng TO-15 CCV STD	S15-12190601/S15-12150605	LM	1	Passed
5	1/3/07 13:12	01030705.D	25ng TO-15 LCS STD	S15-12190601/S15-12150603	LM	4	Passed
6	1/3/07 13:47	01030706.D	25ng TO-15 LCSD STD	S15-12190601/S15-12150603	LM	4	Passed
7	1/3/07 14:27	01030707.D	P2603530-006 (2.0ml)	TRC WDI-VW-51-D-12-21-06 (-2.7,3.5)	LM	1	Case file, Rerun higher
8	1/3/07 15:03	01030708.D	P2603530-006 (14.0ml)	TRC WDI-VW-51-D-12-21-06 (-2.7,3.5)	LM	1	
9	1/3/07 15:39	01030709.D	P2603530-006 dup (14.0ml)	TRC WDI-VW-51-D-12-21-06 (-2.7,3.5)	LM	1	Passed as dup
10	1/3/07 16:18	01030710.D	P2603530-005 (100ml) 10 6/1/18/07	TRC WDI-VW-62-S-12-21-06 (-2.0,3.5)	LM	1	
11	1/3/07 17:15	01030711.D	P2603530-004 (1000ml)	TRC WDI-VW-51-S-12-21-06 (-2.3,3.5)	LM	6	
12	1/3/07 18:21	01030712.D	P2603530-007 (1000ml)	TRC WDI-VW-30-S-12-21-06 (-2.7,3.7)	LM	5	
13	1/3/07 19:02	01030713.D	P2603530-008 (1000ml)	TRC WDI-VW-30-I-12-21-06 (-2.1,3.5)	LM	6	
14	1/3/07 19:42	01030714.D	P2603530-009 (1000ml)	TRC WDI-VW-30-D-12-21-06 (-2.0,3.5) 5 6/1/18/07	LM	7	Gas leak
15	1/3/07 20:18	01030715.D	P2603530-019 (50ml)	TRC WDI-VW-25-12-22-06 (-2.4,3.5)	LM	8	
16	1/3/07 21:00	01030716.D	P2603530-022 (1000ml)	TRC WDI-VW-Trip Blank-03 (-14.7,3.5)	LM	9	
17	1/3/07 21:36	01030717.D	25ng TO-15 CCV STD	S15-12190601/S15-12150607	LM	1	
18	1/3/07 22:17	01030718.D	P2603501-002 (1000ml)	[redacted](-1.7,3.5)	LM	10	
19	1/3/07 22:58	01030719.D	P2603501-003 (1000ml)	[redacted](-1.7,3.8)	LM	11	
20	1/3/07 23:39	01030720.D	P2603481-001 (1000ml)	[redacted]1.4,3.6)	LM	12	
21	1/4/07 0:20	01030721.D	P2603481-002 (1000ml)	[redacted]3.3,3.5)	LM	13	
22	1/4/07 1:01	01030722.D	P2603481-005 (1000ml)	[redacted]2.4,3.5)	LM	16	Filter Van
23	1/4/07 1:42	01030723.D	P2603481-006 (1000ml)	[redacted]3.8,3.7)	LM	2	
24	1/4/07 2:23	01030724.D	P2603481-007 (1000ml)	[redacted](-2.3,3.6)	LM	3	
25	1/4/07 2:59	01030725.D	blank (300ml)	rinse	LM	1	

LM 1/8/07

	DATE/TIME	FILENAME	SAMPLE ID	MISC. INFO	AS POS	INIT	COMMENT
19	1/2/07 9:38	01020719.D	P2603500-001 (1000ml)	[redacted]6, 3.5)	9	[illegible]	
20	1/2/07 10:18	01020720.D	P2603500-002 (1000ml)	[redacted] 3.6)	10		
21	1/2/07 10:58	01020721.D	P2603500-003 (1000ml)	[redacted].8, 3.6)	11		
22	1/2/07 11:38	01020722.D	P2603500-007 (1000ml)	[redacted]2.9, 3.5)	12		
23	1/3/07 12:15	01020723.D	P2603500-004 (100ml)	[redacted].1, 3.5)	3		
24	1/3/07 12:51	01020724.D	P2603500-006 (100ml)	[redacted]3, 3.5)	4		
25	1/3/07 1:28	01020725.D	Blank (100ml)	System Check	1		
26	1/3/07 2:05	01020726.D	P2603543-001 Dil (100ml)	[redacted]2.7, 3.5)	15		
27	1/3/07 2:42	01020727.D	P2603543-002 Dil (100ml)	[redacted]9, 3.7)	16		
28	1/3/07 3:22	01020728.D	CAS QC1 12/29/06 (1000ml)	SC00308	5		Fail
29	1/3/07 4:02	01020729.D	CAS QC2 12/29/06 (1000ml)	SC00132	6		Fail
30	1/3/07 4:42	01020730.D	CAS QC1 12/28/06 (1000ml)	SC00503	14	↓	Fail

1	1/3/07 9:33	01030701.D	5ng TO-15 CCV Std	S15-12270601/S15-12150606	B	AB	- Failed (alcohols)
2	1/3/07 10:16	01030702.D	25ng TO-15 CCV Std	S15-12270601/S15-12150608	C		- Passed
3	1/3/07 11:05	01030703.D	TO-15 Method Blank (1000ml)	S15-12270601	1	↓	- Passed
4	1/3/07 12:08	01030704.D	25ng TO-15 LCS	S15-12270601/S15-12150601	2	RB	- Passed exc. for IPA
5	1/3/07 12:44	01030705.D	25ng TO-15 LCSD	S15-12270601/S15-12150601	2		- Passed exc. for IPA
6	1/3/07 1:21	01030706.D	1ng TO-15 CRQL	S15-12270601/S15-12150606	B		- Passed
7	1/3/07 2:37	01030707.D	P2603530-013 (1000mL)	TRC WDI-VW-62-12-21-06 Ambient (-2.8, ~~3.6~~) Cut 1/7/07 3.5	3		
8	1/3/07 3:17	01030708.D	P2603530-013 DUP (1000mL)	TRC WDI-VW-62-12-21-06 Ambient (-2.8, ~~3.6~~) Cut 1/7/07 3.5	3		- Passed
9	1/3/07 3:57	01030709.D	P2603530-014 (1000mL)	TRC WDI-VW-36-S-12-21-06 (-2.9, 3.5)	4		
10	1/3/07 4:34	01030710.D	P2603530-011 DIL (100mL)	TRC WDI-VW-62-I-12-21-06 (-2.3, 3.5)	6		- Case File: not needed
11	1/3/07 5:19	01030711.D	P2603530-012 (1000mL)	TRC WDI-VW-62-D-12-21-06 (-2.2, 3.5)	7		
12	1/3/07 5:55	01030712.D	P2603530-015 (1000mL)	TRC WDI-VW-36-D-12-21-06 (-2.7, 3.5)	5		
13	1/3/07 6:32	01030713.D	P2603530-011 (1000mL)	TRC WDI-VW-62-I-12-21-06 (-2.3, 3.5)	6		
14	1/3/07 7:08	01030714.D	P2603530-016 (1000mL)	TRC WDI-VW-42-S-12-22-06 (-2.2, 3.5)	8		
15	1/3/07 7:44	01030715.D	P2603530-017 (1000mL)	TRC WDI-VW-42-D-12-22-06 (-2.4, 3.5)	9		
16	1/3/07 8:24	01030716.D	P2603530-018 (1000mL)	TRC WDI-VW-42-12-21-06 Ambient (-2.6, 3.5)	10		
17	1/3/07 9:01	01030717.D	25ng TO-15 CCV Std	S15-12270601/S15-12150608	C		- Passed
18	1/3/07 9:37	01030718.D	Blank (100mL)	Test	1		
19	1/3/07 10:13	01030719.D	P2603500-001 DIL (100mL)	[redacted]6, 3.5)	11		
20	1/3/07 10:49	01030720.D	P2603500-002 DIL (100mL)	[redacted]3, 3.6)	12		
21	1/3/07 11:26	01030721.D	P2603500-003 DIL (100mL)	[redacted]8, 3.6)	13		
22	1/4/07 12:06	01030722.D	P2603500-004 (1000mL)	[redacted]2.1, 3.5)	14		Case file RR (LCS)
23	1/4/07 12:43	01030723.D	P2603500-005 DIL (100mL)	[redacted]8, 3.5)	15		
24	1/4/07 1:23	01030724.D	P2603500-006 (1000mL)	[redacted].3, 3.5)	16		Case file RR (LCS)
25	1/4/07 2:00	01030725.D	P2603500-007 DIL (100mL)	[redacted]2.9, 3.5)	3		
26	1/4/07 2:40	01030726.D	P2603500-009 (1000mL)	[redacted]7, 3.5)	4		Case file RR (LCS)
27	1/4/07 3:20	01030727.D	P2603500-010 (1000mL)	[redacted]3.3, 3.5)	5		↓
28	1/4/07 3:56	01030728.D	Blank (100mL)	Test	1		
29	1/4/07 4:37	01030729.D	CAS Can QC#1B 01/02/07 (1.0L)	SC00425	7	↓	- Passed exc. for 2-Butanone

AP. vols.

1	1/4/07 9:27	01040701.D	25ng TO-15 CCV Std	S15-12270601/S15-12150608	C	RB	- Passed
[illegible]	[illegible]	[illegible]	TO-15 Method Blank (1.0L)	S15-12270601	1		- Passed

Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1/4/07 9:09	01040701.D	blank	S15-01030704	LM	1	Check mix/IS case
1/4/07 9:57	01040702.D	25ng TO-15 CCV STD	S15-01030704/S15-12150607	LM	1	EM change 1435-1400, Failed
1/4/07 11:09	01040703.D	blank (300ml)	check system	LM	1	
1/4/07 11:55	01040704.D	blank (300ml)	check system	LM	1	
1/4/07 12:31	01040705.D	blank (200ml)	check system	LM	1	
1/4/07 13:07	01040706.D	25ng TO-15 BFB STD	S15-01030704	LM	1	Passed
1/4/07 14:14	01040707.D	0.5ng TO-15 ICAL STD	S15-01030704/S15-12260602	LM	1	
1/4/07 14:49	01040708.D	1ng TO-15 ICAL STD	S15-01030704/S15-12260602	LM	1	ICAL OK for all
1/4/07 15:25	01040709.D	5ng TO-15 ICAL STD	S15-01030704/S15-12260602	LM	1	compounds
1/4/07 16:01	01040710.D	25ng TO-15 ICAL STD	S15-01030704/S15-12260603	LM	1	0.5 -> 100 ng
1/4/07 16:36	01040711.D	50ng TO-15 ICAL STD	S15-01030704/S15-12260603	LM	1	
1/4/07 17:12	01040712.D	100ng TO-15 ICAL STD	S15-01030704/S15-12260603	LM	1	
1/4/07 17:48	01040713.D	25ng TO-15 ICV STD	S15-01030704/S15-12150604	LM	4	Passed
1/4/07 19:03	01040714.D	TO-15 Method Blank (1000ml)	S15-01030704	LM	1	
1/4/07 19:38	01040715.D	25ng TO-15 LCS STD	S15-01030704/S15-12150604	LM	4	
1/4/07 20:19	01040716.D	P2603557-001 (1000ml)	[redacted]4.6,3.5)	LM	5	
1/4/07 21:00	01040717.D	P2603557-001 dup (1000ml)	[redacted]4.6,3.5)	LM	5	
1/4/07 21:40	01040718.D	P2603557-002 (1000ml)	[redacted].6,3.6)	LM	6	
1/4/07 22:21	01040719.D	P2603557-003 (1000ml)	[redacted].1,3.5)	LM	7	
1/4/07 22:56	01040720.D	P2603557-003 dil (100ml)	[redacted]5.1,3.5)	LM	7	Can file, not needed.
1/4/07 23:37	01040721.D	P2603501-001 (1000ml)	[redacted]3.0,3.6	LM	8	
1/5/07 0:12	01040722.D	P2603542-001 (400ml)	[redacted]0.0,10.5)	LM	9	
1/5/07 0:47	01040723.D	P2603542-002 (50ml)	[redacted](0.0,10.2)	LM	10	Can file, Rerun higher vol
1/5/07 1:23	01040724.D	P2603542-003 (100ml)	[redacted](0.0,10.5)	LM	11	
1/5/07 1:59	01040725.D	P2603542-004 (100ml)	[redacted]0.2,10.2)	LM	12	
1/5/07 2:34	01040726.D	blank (100ml)	rinse	LM	1	
1/5/07 3:15	01040727.D	CAS CAN QC#3 1/2/07 (1000ml)	AC01038	LM	2	
1/5/07 3:56	01040728.D	CAS CAN QC#1a 1/3/07 (1000ml)	SC00773	LM	3	
1/5/07 4:36	01040729.D	CAS CAN QC#3 DR 1/4/07 (1000ml)	AC01295	LM	13	
1/5/07 5:17	01040730.D	CAS CAN QC#3 12/28/06 (1000ml)	AC01030	LM	14	
1/5/07 5:58	01040731.D	CAS CAN QC#3 1/02/07 (1000ml)	SC00291	LM	15	

	Date/Ti
1	1/5/07 9
2	1/5/07 9
3	1/5/07 1
4	1/5/07 1
5	1/5/07 1
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8	1/5/07 1
9	1/5/07 1
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12	1/6/0

1/11/07

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	1/5/07 9:02	01050701.D	25ng TO-15 STD	S15-01030704/S15-12260603	LM	1	Fre an113 bias low
2	1/5/07 9:37	01050702.D	25ng TO-15 CCV STD	S15-01030704/S15-12260603	LM	1	Passed all camp
3	1/5/07 11:00	01050703.D	TO-15 Method Blank (1000ml)	S15-01030704	LM	1	Passed
4	1/5/07 11:44	01050704.D	1ng TO-15 CCV STD	S15-01030704/S15-12260602	LM	1	Passed
5	1/5/07 12:35	01050705.D	25ng TO-15 LCS STD	S15-01030704/S15-12150604	LM	4	Passed
6	1/5/07 13:11	01050706.D	25ng TO-15 LCSD STD	S15-01030704/S15-12150604	LM	4	Passed as Dup
7	1/5/07 13:47	01050707.D	P2603501-001 dil (100ml)	[redacted]0.0,3.6)	LM	8	
8	1/5/07 14:30	01050708.D	P2603561-001 (200ml)	TRC WDI-GTS-IN-12-27-06(-3.1,3.5)	LM	2	
9	1/5/07 15:29	01050709.D	P2603561-001 (1000ml)	TRC WDI-GTS-IN-12-27-06(-3.1,3.5)	LM	2	
10	1/5/07 16:28	01050710.D	P2603561-001dup (1000ml)	TRC WDI-GTS-IN-12-27-06(-3.1,3.5)	LM	2	Passed as Dup, extra Dup
11	1/5/07 17:18	01050711.D	P2603561-002 (1000ml)	TRC WDI-GTS-OUT-12-27-06(-2.6,3.5)	LM	3	
12	1/5/07 18:57	01050712.D	P2603561-002 dup (1000ml)	TRC WDI-GTS-OUT-12-27-06(-2.6,3.5)	LM	3	Passed as lab Dup
13	1/5/07 19:32	01050713.D	P2603530-008 dil (100ml)	TRC WDI-VW-30-I-12-21-06(-2.1,3.5)	LM	2	
14	1/5/07 20:16	01050714.D	P2603530-020 (1000ml)	TRC WDI-VW-Trip Blank-01(-14.7,3.5)	LM	4	
15	1/5/07 20:59	01050715.D	P2603530-021 (1000ml)	TRC WDI-VW-Trip Blank-02(-14.6,3.5)	LM	5	
16	1/5/07 21:35	01050716.D	25ng TO-15 CCV STD	S15-12190601/S15-12260603(closing CCV)	LM	1	Passed
17	1/5/07 22:11	01050717.D	P2603542-002 (400ml)	[redacted]:0,10.2)	LM	6	
18	1/5/07 22:46	01050718.D	P2603542-003 (400ml)	[redacted]:0,10.5)	LM	7	
19	1/5/07 23:22	01050719.D	P2603542-004 (400ml)	[redacted]:2,10.2)	LM	8	
20	1/5/07 23:58	01050720.D	blank(100ml)	rinse	LM	1	
21	1/6/07 0:40	01050721.D	P2603500-004 (1000ml)	[redacted]1,3.5)	LM	9	
22	1/6/07 1:21	01050722.D	P2603500-006 (1000ml)	[redacted]3,3.5)	LM	10	
23	1/6/07 2:02	01050723.D	P2603500-009 (1000ml)	[redacted]-2.7,3.5)	LM	11	
24	1/6/07 2:43	01050724.D	P2603500-010 (1000ml)	[redacted]3.3,3.5)	LM	12	
25	1/6/07 3:19	01050725.D	blank (200ml)	rinse	LM	1	
26	1/6/07 4:00	01050726.D	CAS CAN QC/FC (1000ml)	AC00426/FC00214	LM	13	Passed
27	1/6/07 4:41	01050727.D	CAS CAN QC/FC (1000ml)	AC01098/FC00398	LM	14	
28	1/6/07 5:21	01050728.D	CAS CAN QC/FC (1000ml)	AC00733/FC00502	LM	15	
29	1/6/07 5:57	01050729.D	CAS CAN QC/FC (1000ml)	AC01132/FC00539	LM	16	

1	1/6/07 6:33	01060701.D	5ng TO-15 CCV STD	S15-12190601/S15-12260602	LM	1	
2	1/6/07 9:48	01060702.D	CAS QC#3DR 1/2/07 (1.0L)	Can AC00115	LM	2	Passed only [redacted]'s
3	1/6/07 10:38	01060703.D	TO-15 Method Blank (1.0L)	S15-12190601	LM	2	
4	1/6/07 11:18	01060704.D	25ng TO-15 LCS	S15-12190601/S15-01040704	LM	2	
5	1/6/07 12:29	01060705.D	CAS QC#2 1/4/07 (1.0L)	Can SC00815	LM	13	Passed all camp + TICs
6	1/6/07 13:05	01060706.D	CAS QC#1 1/4/07 (1.0L)	Can SC00098	LM	13	Passed all camp 5 ing
7	1/6/07 13:44	01060707.D	CAS QC#3 1/4/07 (1.0L)	Can AC01198	LM	13	Passed all + TICs
8	1/6/07 14:24	01060708.D	CAS QC#2 12/28/07 (1.0L)	Can SC00559	LM	13	Failed
9	1/6/07 15:04	01060709.D	CAS QC#1 12/26/07 (1.0L)	Can SC00027	LM	13	Failed
10	1/6/07 15:45	01060710.D	CAS QC#2 12/26/07 (1.0L)	Can SC00850	LM	14	Failed
11	1/6/07 16:21	01060711.D	CAS QC#1 1/4/07 (1.0L)	Can SL00084	LM	15	Passed all + TICs
12	1/6/07 16:56	01060712.D	CAS QC#2DR 1/4/07 (1.0L)	Can SL00110	LM	16	Passed.

7. SDG P2700092

Included for completeness only.
No samples were reviewed in SDG.

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

February 5, 2007

Mr. Yasser Fahmy
TRC
21 Technology Drive
Irvine, CA 92618

RE: P2700092
WDI

Dear Mr. Fahmy:

Enclosed are the results of the sample(s) submitted to our laboratory on January 12, 2007.
For your reference, these analyses have been assigned our service request number P2700092.

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 109 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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Columbia Analytical Services INC.
An Employee - Owned Company

LABORATORY REPORT

Client:	TRC	Date of Report:	02/05/07
Address:	21 Technology Drive	Date Received:	01/12/07
	Irvine, CA 92618	CAS Project No:	P2700092
Contact:	Mr. Yasser Fahmy	Purchase Order:	Verbal

Client Project ID: WDI

One (1) Stainless Steel Summa Canister labeled: "WDI-IBM-03-1-6-07"

The sample was received at the laboratory under chain of custody on January 12, 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 sample at the time that it was 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:

Wade Henton
GC-VOA Team Leader
Air Quality Laboratory

Reviewed and Approved:

Chris Parnell
GCMS-VOA Team Leader
Air Quality Laboratory

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Columbia Analytical Services INC.
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CAS Project No: P2700092

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 a Hewlett Packard Model 5972 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.

The percent relative standard deviation for vinyl acetate in the initial calibration in Scan mode did not meet the client's criteria; however, it was within the laboratory's quality control parameters.

The percent difference for acetone was biased high in the CRQL analyzed in Scan mode.

There was insufficient volume to analyze a duplicate on the sample due to the number of different analyses.

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.
Sample Acceptance Check Form

Client: TRC Work order: P2700092
Project: WDI
Sample(s) received on: 01/12/07 Date opened: 01/12/07 by: LK

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
P2700092-001			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. P2700092

CAS Contact

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

Project Name: WDI

Project Number:

Project Manager: YASSER FAHMY

P.O. # / Billing Information:

Phone: (949) 727-9336 Fax: (949) 753-0111

Email Address for Result Reporting: YFAHMY@TRCSOLUTIONS.COM

Sampler (Print & Sign): STEVEN CRAWFORD

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume	TO-15	EPA 25C MODIFIED (TOTAL METHANE ORGANIC CARBON)	EPA 3C MODIFIED (METHANE)		Comments e.g. Actual Preservative or specific instructions
WDI-IBM-03-1-6-07	1	1-6-07	1505	AIR	AC00804	FC00544	6L	X	X	X		
												10818

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	1-12-07	1206	[illegible]	1/12/07	1206
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank
Temperature ___ °C

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700092
CAS Sample ID: P070117-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 1/17/07
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: w Date: 1/26/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700092
CAS Sample ID: P070117-LCS

Laboratory Control Sample Summary

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

Date Collected: NA
Date Received: NA
Date Analyzed: 1/17/07
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Oxygen + Argon *	219,000	228,000	**104**	90-110	
Nitrogen	780,000	810,000	**104**	90-110	

Verified By: WJ Date: 1/26/07

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

WD 8/22/06

(#) = Out of Range

COLUMBIA ANALYTICAL INC.

ZW 1/17/07

EPA 3C GC/TCD Analysis for Fixed Gases

Client & PAI Job# : TRC P2700092
Analyst : WHH
Sample amount : ~100uL

Printed : 1/17/07
Instrument : GC #1 / TCD #1
Date analyzed : 1/17/07

Sample Result

Sample ID	Hydrogen	O2/Ar	Nitrogen	Carbon Monoxide	Methane	Carbon Dioxide	Pi1	Pf1	Pi2	Pf2
STD-50000ppm	38289	53119	53463	53432	42964	53581				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	4.5%	6.3%	5.8%	6.8%	7.3%	6.4%				
MB	0	0	0	0	0	0				
LAB AIR	0	228327	810090	0	0	590				
0092-001	0	148964	522503	0	0	376	-4.9	3.7		
0092-001 dup	0	148579	520958	0	0	455	-4.9	3.7		
STD 50000ppm S14-09	37915	51659	50380	52249	42649	52539				
ACTUAL	40100	49970	50540	50050	40050	50360				
% DIFFER.	5.4%	3.4%	0.3%	4.4%	6.5%	4.3%				

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	228327	810090	0	0	590	103.9	1.00
0092-001	0	279688	981026	0	0	706	126.1	1.88
0092-001 dup	0	278964	978126	0	0	854	125.8	1.88

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	38289	53119	53463	53432	42964	53581	
MB	ND	ND	ND	ND	ND	ND	
LAB AIR	ND	219733	779599	ND	ND	568	99.99
0092-001	ND	221703	777638	ND	ND	560	99.99
0092-001 dup	ND	221740	777481	ND	ND	679	99.99

Injection Log

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

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	08210601.d	10.	Test		21 Aug 106 12::5
2	4	08210602.d	10.	Test		21 Aug 106 13::5
3	4	08210603.d	10.	MB		21 Aug 106 13::0
4	4	08210604.d	10.	test		21 Aug 106 12::1
5	4	08210605.d	10.	STD 1 S14-03260601 (loop 0.17)		21 Aug 106 12::3
6	4	08210606.d	10.	STD 2 S14-04120602 (loop 0.17)		21 Aug 106 12::1
7	5	08210607.d	10.	STD 3 S14-04120602 (loop 1.00)		21 Aug 106 12::3
8	5	08210608.d	10.	STD 4 S14-04120602 (loop 10.47)		21 Aug 106 12::4
9	5	08210609.d	10.	STD 5 S14-0~~5~~4120602 (loop 18.0)		21 Aug 106 12::5
10	5	08210610.d	10.	lab air	LW 12/11/06	21 Aug 106 12::1
11	5	08210611.d	10.	icv		21 Aug 106 12::2
12	5	08210612.d	10.	ICV S14-07110501		21 Aug 106 12::5
13	5	08210613.d	10.	blank		21 Aug 106 12::1

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

DATE: 1 / 17 / 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

CARRIER GAS: He 25.1 mL/min

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

DETECTOR INFO: HP TCD #1: 260 °C
HP FID #1: 280 °C

SENSITIVITY: INITIAL HIGH, 1.5 min LOW
POLARITY: INITIAL NEGATIVE, 1.5 min POSITIVE

DATA PATHWAY: J:\GC1\DATA\FX8\2007-01\17\

METHOD FILE NAME: J:\GC1\METHODS_____.M

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	Std 5000ppm	S14-09010603	ZL
02	MB		
03	Lab Air		
04	0092-001	TRC	
05	L-001 dup		
06	Std 5000ppm	S14-09010603	
07	Wait		
08			
09			
10			
11			
12		ZL	
13			
14		1/17/07	
15			
16			
17			
18			
19			
20			

	DATA FILE HEADER INFO	CLIENT	ANALYST
21			
22			
23			
24			
25			
26		ZL	
27			
28		1/17/07	
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700092
CAS Sample ID: P070117-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: 1/17/07
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: W Date: 1/26/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700092
CAS Sample ID: P070117-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: 1/17/07
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Methane	57.5	59.7	104	90-110	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	345	361	105	90-110	

Verified By: w Date: 1/26/07

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

PERFORMANCE ANALYTICAL INC.

ZW 1/17/07

EPA 25C TCA/FID Analysis for TGNMO

Client & PAI Job# : TRC P2700092
Analyst : WHH
Sample amount : 500uL / 68uL

Printed : 1/17/07
Instrument : GC #1 / FID #1
Date analyzed : 1/17/07

Sample Results (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGNMO-2	Pi1	Pf1	Pi2	Pf2
STD 100ppm S14-122806	91.7	72.3	90.6	101.8					
ACTUAL	100.1	80.1	100.7	101.2					
% DIFF.	8.4%	9.7%	10.0%	0.6%					
MB NL	0.00	0.00	0.00	0.00	0.00				
LAB AIR NL	1.63	2.39	570.74	0.00	0.00				
0092-001 v	2.89	1.50	2.78	0.00	0.00	-4.9	3.7		
LCS 345ppm S14-040506	62.97	59.67	59.58	360.76					
ACTUAL	57.9	57.5	57.9	345.0					
% Recovery	108.7%	103.7%	103.0%	104.6%					
STD 100ppm S14-122806	93.86	72.54	90.83	103.82					
ACTUAL	100.1	80.1	100.7	101.2					
% DIFF.	6.2%	9.4%	9.8%	2.6%					

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	ND	ND	ND	1.00	1.00	1.00
LAB AIR NL	1.63	2.39	570.74	ND	ND	1.00	1.00	1.00
0092-001 v	ND	2.81	ND	ND	ND	1.00	1.00	1.88

Injection Log

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

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

WE 10/23/06

12

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

DATE: 1 / 17 / 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\2007-01\17\ METHOD FILE NAME: J:\GC1\METHODS\M102006.M

	DATA FILE HEADER INFO			CLIENT	ANALYST
01	Std 100 ppm S14-12280601				ZW
02	MB				
03	Lab Air				
04	LCS 345 ppm S14-04050602				
05	0093-001	VV		[redacted]	
06	-001		long		
07	-001			dup	
08	-002				
09	-003				
10	-004				
11	-005				
12	-006				
13	-007				
14	-008				
15	MB vvLong				
16	Std 100 ppm S14-12280601				
17	0092-001	V		TRC	
18	0106-003	V	long	[redacted]	
19	-004				
20	-001				
21	0106-001	V	long	[redacted]	ZW
22	-002				
23	0108-001	LV	long		
24	Std 100 ppm S14-12280601				
25					
26					
27					
28					
29					
30					
31	ZW				
32					
33	1/17/07				
34					
35					
36					
37					
38					
39					
40					

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700092
CAS Sample ID: P070119-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chaney Humphrey
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 1/19/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	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.

Verified By: MV Date: 1/26/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700092
CAS Sample ID: P070119-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chaney Humphrey
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 1/19/07
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: MJ Date: 1/26/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700092

Surrogate Spike Recovery Results

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chaney Humphrey
Sampling Media: Summa Canister(s)
Test Notes:

Date Collected: 1/6/07
Date Received: 1/12/07
Date Analyzed: 1/19/07

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	P070119-MB	**94**	80-120	**100**	80-120	**98**	80-120	
Lab Control Sample	P070119-LCS	**101**	80-120	**99**	80-120	**98**	80-120	
Duplicate Lab Control Sample	P070119-DLCS	**102**	80-120	**100**	80-120	**99**	80-120	
WDI-IBM-03-1-6-07	P2700092-001	**92**	80-120	**101**	80-120	**97**	80-120	

Verified By: MS Date: 1/26/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700092
CAS Sample ID: P070119-LCS, P070119-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chaney Humphrey
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 1/19/07
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	23.4	23.1	**96**	**95**	65-135	**1**	35	
Vinyl Chloride	24.8	24.1	24.3	**97**	**98**	65-135	**1**	35	
Bromomethane	25.0	24.4	24.6	**98**	**98**	65-135	**0**	35	
Chloroethane	25.0	24.9	25.3	**100**	**101**	65-135	**1**	35	
Acetone	26.5	25.7	25.3	**97**	**95**	65-135	**2**	35	
Trichlorofluoromethane	24.3	22.6	22.8	**93**	**94**	65-135	**1**	35	
1,1-Dichloroethene	27.3	26.8	26.6	**98**	**97**	65-135	**1**	35	
Methylene chloride	26.8	24.8	25.0	**93**	**93**	65-135	**0**	35	
Trichlorotrifluoroethane	27.0	25.3	24.7	**94**	**91**	65-135	**3**	35	
Carbon Disulfide	25.0	23.7	23.9	**95**	**96**	65-135	**1**	35	
trans-1,2-Dichloroethene	26.3	25.5	25.6	**97**	**97**	65-135	**0**	35	
1,1-Dichloroethane	26.3	26.1	26.0	**99**	**99**	65-135	**0**	35	
Methyl tert-Butyl Ether	26.3	26.0	25.4	**99**	**97**	65-135	**2**	35	
Vinyl Acetate	24.3	29.5	29.9	**121**	**123**	65-135	**2**	35	
2-Butanone (MEK)	26.8	27.4	27.3	**102**	**102**	65-135	**0**	35	
cis-1,2-Dichloroethene	26.5	25.6	25.8	**97**	**97**	65-135	**0**	35	
Chloroform	30.0	28.1	27.9	**94**	**93**	65-135	**1**	35	
1,2-Dichloroethane	26.0	25.4	25.3	**98**	**97**	65-135	**1**	35	
1,1,1-Trichloroethane	26.3	25.4	25.1	**97**	**95**	65-135	**2**	35	
Benzene	26.3	25.0	24.9	**95**	**95**	65-135	**0**	35	
Carbon Tetrachloride	25.8	29.7	29.2	**115**	**113**	65-135	**2**	35	
1,2-Dichloropropane	26.0	25.5	25.4	**98**	**98**	65-135	**0**	35	

Verified By: W Date: 1/26/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700092
CAS Sample ID: P070119-LCS, P070119-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chaney Humphrey
Sampling Media: Summa Canister
Test Notes:

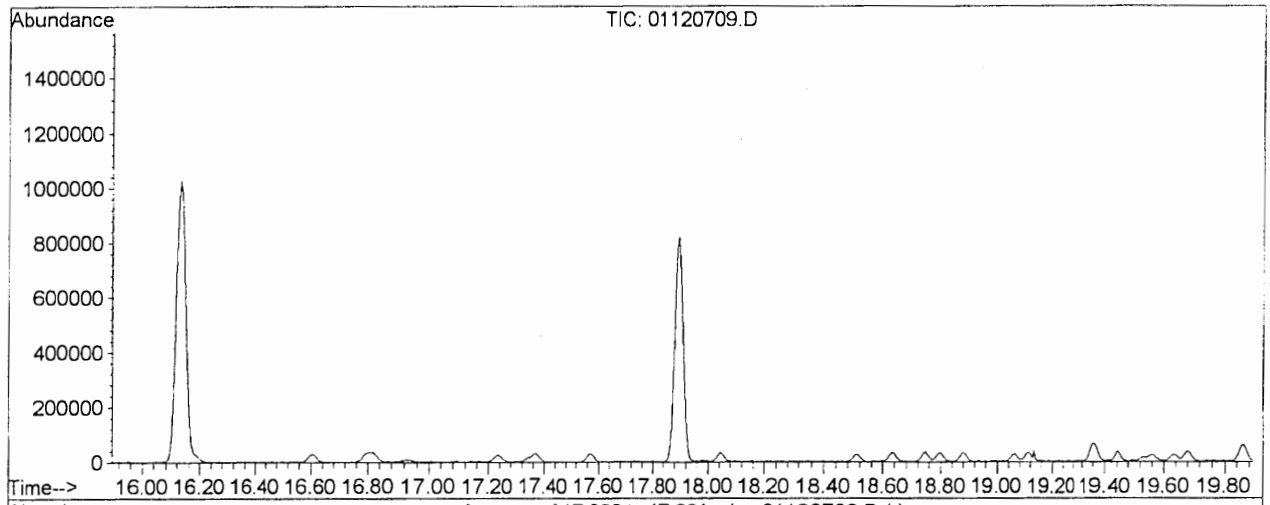
Date Collected: NA
Date Received: NA
Date Analyzed: I/19/07
Volume(s) Analyzed: NA

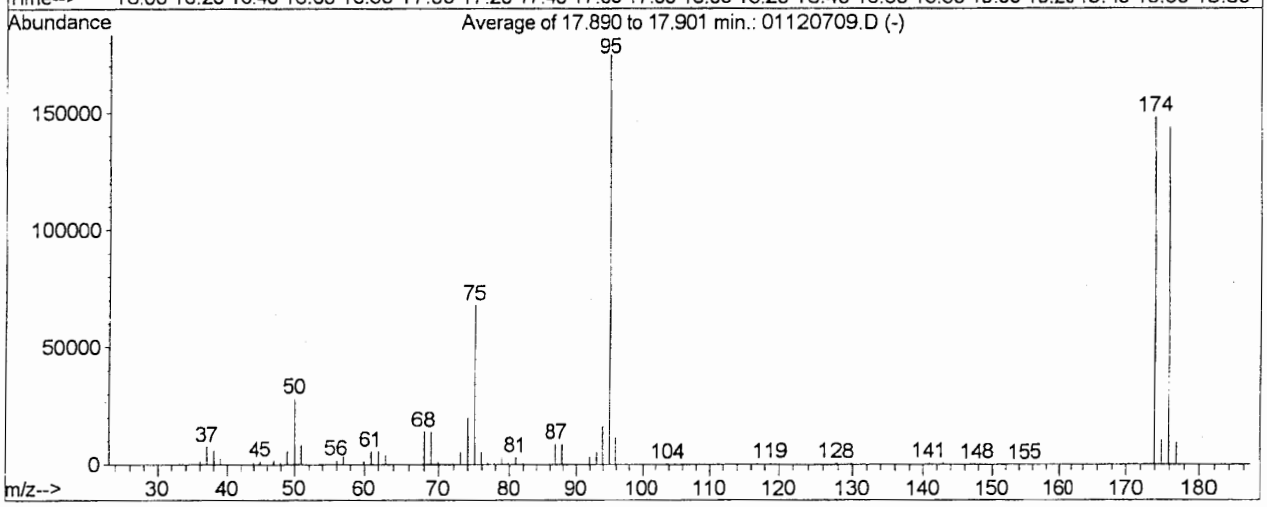
Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.5	26.8	26.7	**97**	**97**	65-135	**0**	35	
Trichloroethene	27.3	25.6	25.4	**94**	**93**	65-135	**1**	35	
cis-1,3-Dichloropropene	26.0	25.1	25.1	**97**	**97**	65-135	**0**	35	
4-Methyl-2-pentanone	26.5	26.7	26.7	**101**	**101**	65-135	**0**	35	
trans-1,3-Dichloropropene	27.8	28.2	28.3	**101**	**102**	65-135	**1**	35	
1,1,2-Trichloroethane	25.8	25.1	25.3	**97**	**98**	65-135	**1**	35	
Toluene	26.0	24.2	24.3	**93**	**93**	65-135	**0**	35	
2-Hexanone	26.0	24.6	24.5	**95**	**94**	65-135	**1**	35	
Dibromochloromethane	26.5	26.0	26.0	**98**	**98**	65-135	**0**	35	
1,2-Dibromoethane	26.0	25.2	25.4	**97**	**98**	65-135	**1**	35	
Tetrachloroethene	25.8	23.9	23.9	**93**	**93**	65-135	**0**	35	
Chlorobenzene	26.0	24.4	24.6	**94**	**95**	65-135	**1**	35	
Ethylbenzene	25.8	24.4	24.3	**95**	**94**	65-135	**1**	35	
m,p-Xylenes	61.5	58.7	58.9	**95**	**96**	65-135	**1**	35	
Bromoform	31.3	29.5	29.6	**94**	**95**	65-135	**1**	35	
Styrene	25.8	24.7	24.8	**96**	**96**	65-135	**0**	35	
o-Xylene	29.0	27.5	27.6	**95**	**95**	65-135	**0**	35	
1,1,2,2-Tetrachloroethane	29.3	29.0	29.3	**99**	**100**	65-135	**1**	35	
1,3-Dichlorobenzene	25.3	23.9	24.1	**94**	**95**	65-135	**1**	35	
1,4-Dichlorobenzene	26.0	24.7	25.0	**95**	**96**	65-135	**1**	35	
1,2-Dichlorobenzene	25.5	24.6	24.6	**96**	**96**	65-135	**0**	35	

Verified By: MJ Date: 1/26/07

BFB

Data File : J:\MS02\DATA\2007_01\12\01120709.D Vial: 1
Acq On : 12 Jan 2007 16:17 Operator: CH
Sample : 0.5ng TO-15 ICAL STD Inst : MS02
Misc : S15-01100701/S15-01110701 Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD





AutoFind: Scans 2517, 2518, 2519; Background Corrected with Scan 2507

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.1	28101	PASS
75	95	30	66	38.8	67880	PASS
96	95	5	9	6.7	11709	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	84.8	148395	PASS
175	174	4	9	7.1	10601	PASS
176	174	93	101	97.0	144000	PASS
177	176	5	9	6.5	9322	PASS

01120709.D R2011207.M Mon Jan 15 10:56:32 2007

CH 1/15/07

Response Factor Report MS02

Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Mon Jan 15 10:03:46 2007
Response via : Initial Calibration

Calibration Files
0.5 =01120709.D 1 =01120710.D 5 =01120711.D
25 =01120712.D 50 =01120713.D 100 =01120714.D

		Compound	0.5	1	5	25	50	100	Avg	%RSD
43)	T	Cyclohexane	0.456	0.454	0.434	0.432	0.425	0.425	0.438	3.19
44)	T	tert-Amyl Methyl Et	0.831	0.805	0.801	0.809	0.802	0.815	0.810	1.41
45)	T	1,2-Dichloropropane	0.289	0.289	0.286	0.286	0.280	0.280	0.285	1.41
46)	T	Bromodichloromethan	0.325	0.349	0.341	0.355	0.342	0.337	0.341	3.02
47)	T	Trichloroethene	0.364	0.351	0.344	0.333	0.322	0.311	0.337	5.81
48)	T	1,4-Dioxane	0.236	0.220	0.230	0.241	0.231	0.226	0.231	3.10
49)	T	Isooctane	1.123	1.093	1.054	1.050	1.039	1.061	1.070	2.96
50)	T	Methyl Methacrylate	0.151	0.160	0.148	0.152	0.147	0.150	0.151	3.15
51)	T	n-Heptane	0.270	0.266	0.270	0.272	0.266	0.269	0.269	0.91
52)	T	cis-1,3-Dichloropro	0.440	0.456	0.459	0.474	0.456	0.443	0.455	2.71
53)	T	4-Methyl-2-pentanon	0.256	0.257	0.262	0.269	0.259	0.256	0.260	2.01
54)	T	trans-1,3-Dichlorop	0.366	0.382	0.393	0.417	0.407	0.407	0.395	4.76
55)	T	1,1,2-Trichloroetha	0.303	0.304	0.298	0.300	0.291	0.288	0.297	2.23
56)	I	Chlorobenzene-d5 (IS3	----------ISTD----------							
57)	S	Toluene-d8 (SS2)	2.380	2.383	2.334	2.316	2.324	2.349	2.348	1.22
58)	T	Toluene	3.104	2.967	2.756	2.675	2.561	2.438	2.750	9.08
59)	T	2-Hexanone	1.634	1.647	1.604	1.659	1.602	1.567	1.619	2.10
60)	T	Dibromochloromethan	0.793	0.798	0.804	0.825	0.793	0.763	0.796	2.54
61)	T	1,2-Dibromoethane	0.923	0.948	0.922	0.914	0.883	0.848	0.906	3.91
62)	T	Butyl Acetate	1.765	1.786	1.740	1.829	1.783	1.754	1.776	1.75
63)	T	n-Octane	0.583	0.590	0.571	0.564	0.541	0.510	0.560	5.29
64)	T	Tetrachloroethene	0.828	0.863	0.805	0.790	0.751	0.709	0.791	6.92
65)	T	Chlorobenzene	2.148	2.144	2.003	1.939	1.841	1.734	1.968	8.39
66)	T	Ethylbenzene	3.302	3.306	3.145	3.065	2.897	2.698	3.069	7.76
67)	T	m- & p-Xylene	2.120	2.132	1.993	1.934	1.804	1.657	1.940	9.53
68)	T	Bromoform	0.515	0.554	0.567	0.585	0.562	0.538	0.554	4.40
69)	T	Styrene	2.057	2.093	2.047	2.049	1.939	1.824	2.001	5.06
70)	T	o-Xylene	2.307	2.270	2.146	2.091	1.963	1.824	2.100	8.74
71)	T	n-Nonane	1.435	1.403	1.345	1.329	1.262	1.209	1.331	6.37
72)	T	1,1,2,2-Tetrachloro	1.116	1.181	1.150	1.169	1.105	1.040	1.127	4.60
73)	S	Bromofluorobenzene	0.764	0.770	0.772	0.771	0.764	0.765	0.768	0.51
74)	T	Cumene	3.163	3.157	2.973	2.926	2.743	2.548	2.918	8.21
75)	T	alpha-Pinene	1.643	1.635	1.566	1.563	1.467	1.369	1.540	6.83
76)	T	n-Propylbenzene	3.917	4.030	3.757	3.714	3.476	3.236	3.688	7.90
77)	T	3-Ethyltoluene	3.439	3.373	3.303	3.229	2.996	2.723	3.177	8.50
78)	T	4-Ethyltoluene	3.283	3.274	2.968	2.918	2.717	2.565	2.954	9.81
79)	T	1,3,5-Trimethylbenz	2.749	2.747	2.565	2.521	2.344	2.166	2.515	9.11
80)	T	alpha-Methylstyrene	0.713	0.803	0.777	0.785	0.746	0.688	0.752	5.93
81)	T	2-Ethyltoluene	3.476	3.428	3.264	3.235	3.020	2.800	3.204	7.97
82)	T	1,2,4-Trimethylbenz	2.742	2.716	2.573	2.433	2.176	1.887	2.421	13.81
83)	T	n-Decane	1.568	1.611	1.513	1.500	1.406	1.319	1.486	7.23
84)	T	Benzyl Chloride	1.632	1.936	2.137	2.235	2.135	2.017	2.015	10.65
85)	T	1,3-Dichlorobenzene	1.659	1.707	1.645	1.605	1.514	1.396	1.588	7.19

(#) = Out of Range
R2011207.M Fri Jan 19 12:01:14 2007 Page 2

Response Factor Report MS02

Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Mon Jan 15 10:03:46 2007
Response via : Initial Calibration

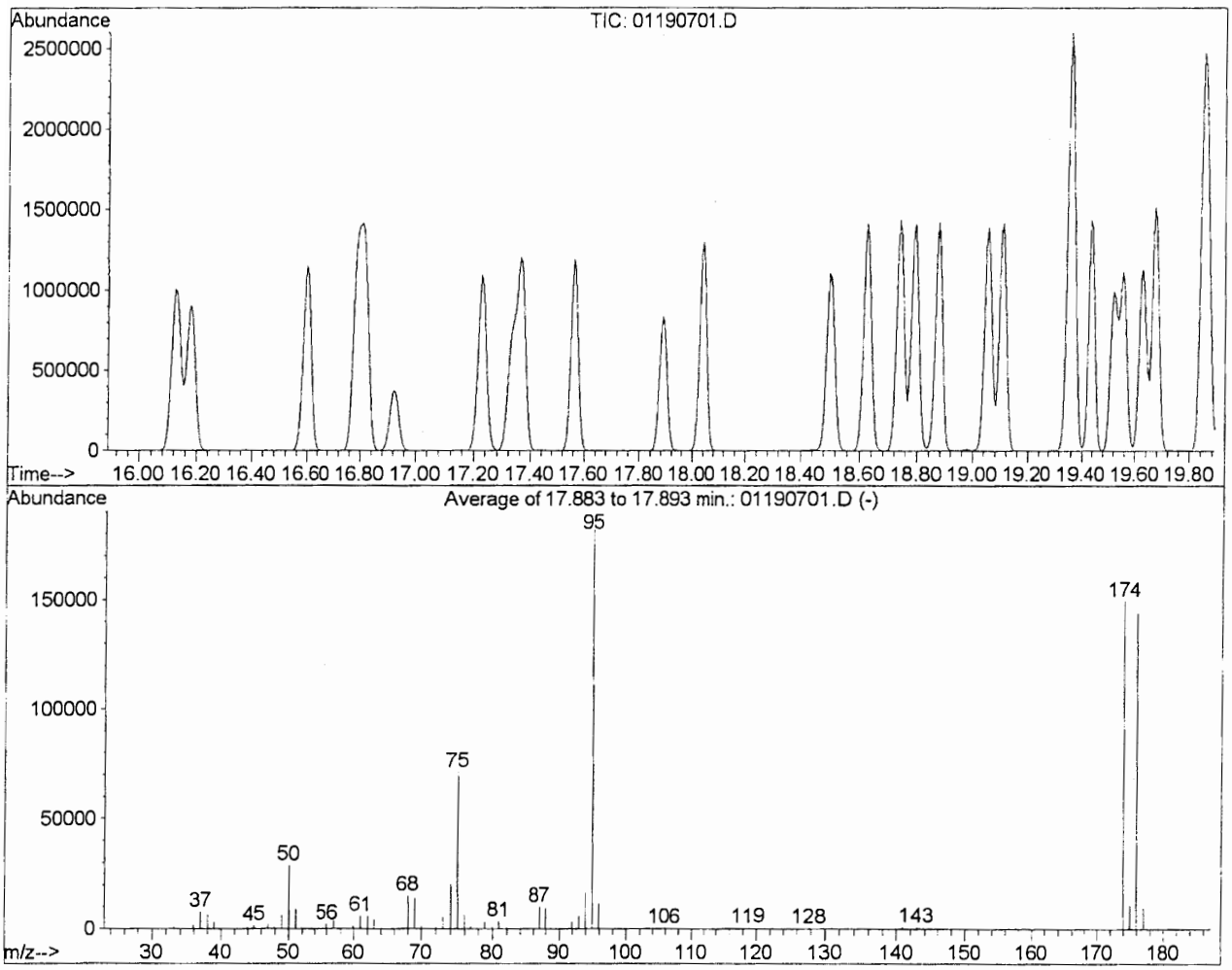
Calibration Files
0.5 =01120709.D 1 =01120710.D 5 =01120711.D
25 =01120712.D 50 =01120713.D 100 =01120714.D

		Compound	0.5	1	5	25	50	100	Avg	%RSD
86)	T	1,4-Dichlorobenzene	1.693	1.689	1.609	1.591	1.492	1.349	1.570	8.35
87)	T	sec-Butylbenzene	3.763	3.753	3.525	3.506	3.275	3.006	3.471	8.39
88)	T	p-Isopropyltoluene	3.124	3.164	2.924	2.809	2.534	2.188	2.790	13.39
89)	T	1,2,3-Trimethylbenz	2.610	2.562	2.456	2.396	2.186	1.918	2.355	11.06
90)	T	1,2-Dichlorobenzene	1.529	1.587	1.535	1.478	1.368	1.227	1.454	9.20
91)	T	d-Limonene	1.050	1.130	1.087	1.090	1.007	0.916	1.047	7.30
92)	T	1,2-Dibromo-3-Chlor	0.289	0.428	0.545	0.605	0.581	0.560	0.501	24.12
93)	T	n-Undecane	1.491	1.600	1.552	1.502	1.404	1.321	1.478	6.86
94)	T	1,2,4-Trichlorobenz	0.145	0.215	0.285	0.295	0.279	0.260	0.246	23.16
95)	T	Naphthalene	2.928	3.115	3.262	3.589	3.442	3.255	3.265	7.14
96)	T	n-Dodecane	1.015	1.334	1.350	1.323	1.246	1.190	1.243	10.24
97)	T	Hexachloro-1,3-buta	0.448	0.492	0.486	0.471	0.443	0.410	0.458	6.68

(#) = Out of Range

BFB

Data File : J:\MS02\DATA\2007_01\19\01190701.D Vial: 1
Acq On : 19 Jan 2007 9:07 Operator: CH
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-01100701/S15-01110703 Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD



AutoFind: Scans 2515, 2516, 2517; Background Corrected with Scan 2505

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.8	28680	PASS
75	95	30	66	39.2	71264	PASS
96	95	5	9	6.4	11557	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	82.2	149419	PASS
175	174	4	9	7.0	10515	PASS
176	174	93	101	96.2	143744	PASS
177	176	5	9	6.7	9640	PASS

01190701.D R2011207.M Fri Jan 19 12:00:47 2007

CH 1/19/07

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\19\01190701.D Vial: 1
Acq On : 19 Jan 2007 9:07 Operator: CH
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-01100701/S15-01110703 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Mon Jan 15 10:03:46 2007
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	85	-0.01
2	T	Propene	1.050	0.921	12.3	77	-0.01
3	T	Dichlorodifluoromethane	2.010	1.777	11.6	78	-0.01
4	T	Chloromethane	1.923	1.732	9.9	77	-0.01
5	T	Freon 114	0.911	0.831	8.8	77	-0.01
6	T	Vinyl Chloride	1.516	1.396	7.9	79	-0.01
7	T	1,3-Butadiene	1.172	1.118	4.6	80	-0.01
8	T	Bromomethane	1.312	1.199	8.6	77	-0.01
9	T	Chloroethane	0.994	0.940	5.4	81	-0.01
10	T	Ethanol	0.595	0.648	-8.9	82	0.00
11	T	Acetonitrile	1.979	1.876	5.2	79	0.00
12	T	Acrolein	0.650	0.574	11.7	76	-0.01
13	T	Acetone	0.891	0.759	14.8	79	0.00
14	T	Trichlorofluoromethane	1.586	1.437	9.4	79	-0.01
15	T	Isopropanol	2.906	2.823	2.9	80	0.00
16	T	Acrylonitrile	1.367	1.319	3.5	79	0.00
17	T	1,1-Dichloroethene	1.160	1.079	7.0	78	-0.01
18	T	tert-Butanol	2.722	2.563	5.8	81	0.00
19	T	Methylene Chloride	1.364	1.198	12.2	78	-0.02
20	T	Allyl Chloride	1.248	1.183	5.2	81	-0.02
21	T	Trichlorotrifluoroethane	0.916	0.773	15.6	74	-0.01
22	T	Carbon Disulfide	5.108	4.488	12.1	79	-0.02
23	T	trans-1,2-Dichloroethene	1.713	1.516	11.5	76	-0.01
24	T	1,1-Dichloroethane	1.914	1.821	4.9	80	-0.01
25	T	Methyl tert-Butyl Ether	3.040	2.654	12.7	76	-0.01
26	T	Vinyl Acetate	0.253	0.289	-14.2	86	-0.01
27	T	2-Butanone	0.765	0.718	6.1	78	-0.01
28	T	cis-1,2-Dichloroethene	1.578	1.418	10.1	77	0.00
29	T	Diisopropyl Ether	0.858	0.768	10.5	77	-0.01
30	T	Ethyl Acetate	0.359	0.350	2.5	78	0.00
31	T	n-Hexane	1.623	1.358	16.3	75	-0.01
32	T	Chloroform	1.725	1.550	10.1	77	0.00
33	S	1,2-Dichloroethane-d4 (SS1)	1.255	1.254	0.1	86	0.00
34	T	Tetrahydrofuran	0.749	0.678	9.5	76	-0.01
35	T	Ethyl tert-Butyl Ether	1.261	1.130	10.4	77	0.00
36	T	1,2-Dichloroethane	1.386	1.259	9.2	78	-0.01
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	85	0.00
38	T	1,1,1-Trichloroethane	0.367	0.339	7.6	78	-0.01
39	T	Isopropyl Acetate	0.196	0.191	2.6	79	-0.01
40	T	1-Butanol	0.259	0.236	8.9	79	0.00

(#) = Out of Range

PM 1/19/07

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\19\01190701.D Vial: 1
Acq On : 19 Jan 2007 9:07 Operator: CH
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-01100701/S15-01110703 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Mon Jan 15 10:03:46 2007
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.147	1.030	10.2	78	-0.01
42	T	Carbon Tetrachloride	0.245	0.262	-6.9	77	-0.01
43	T	Cyclohexane	0.438	0.396	9.6	78	-0.01
44	T	tert-Amyl Methyl Ether	0.810	0.729	10.0	77	-0.01
45	T	1,2-Dichloropropane	0.285	0.265	7.0	79	-0.01
46	T	Bromodichloromethane	0.341	0.324	5.0	78	0.00
47	T	Trichloroethene	0.337	0.307	8.9	78	0.00
48	T	1,4-Dioxane	0.231	0.222	3.9	78	-0.01
49	T	Isooctane	1.070	0.947	11.5	77	-0.01
50	T	Methyl Methacrylate	0.151	0.139	7.9	78	-0.01
51	T	n-Heptane	0.269	0.244	9.3	76	0.00
52	T	cis-1,3-Dichloropropene	0.455	0.444	2.4	80	0.00
53	T	4-Methyl-2-pentanone	0.260	0.251	3.5	79	0.00
54	T	trans-1,3-Dichloropropene	0.395	0.387	2.0	79	0.00
55	T	1,1,2-Trichloroethane	0.297	0.279	6.1	79	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	87	0.00
57	S	Toluene-d8 (SS2)	2.348	2.291	2.4	86	-0.01
58	T	Toluene	2.750	2.411	12.3	79	-0.01
59	T	2-Hexanone	1.619	1.491	7.9	78	0.00
60	T	Dibromochloromethane	0.796	0.738	7.3	78	-0.01
61	T	1,2-Dibromoethane	0.906	0.834	7.9	80	0.00
62	T	Butyl Acetate	1.776	1.653	6.9	79	0.00
63	T	n-Octane	0.560	0.511	8.8	79	0.00
64	T	Tetrachloroethene	0.791	0.698	11.8	77	-0.01
65	T	Chlorobenzene	1.968	1.743	11.4	78	0.00
66	T	Ethylbenzene	3.069	2.739	10.8	78	-0.01
67	T	m- & p-Xylene	1.940	1.748	9.9	79	0.00
68	T	Bromoform	0.554	0.521	6.0	78	0.00
69	T	Styrene	2.001	1.878	6.1	80	-0.01
70	T	o-Xylene	2.100	1.886	10.2	79	0.00
71	T	n-Nonane	1.331	1.215	8.7	80	0.00
72	T	1,1,2,2-Tetrachloroethane	1.127	1.054	6.5	79	-0.01
73	S	Bromofluorobenzene (SS3)	0.768	0.799	-4.0	90	0.00
74	T	Cumene	2.918	2.654	9.0	79	0.00
75	T	alpha-Pinene	1.540	1.412	8.3	79	0.00
76	T	n-Propylbenzene	3.688	3.346	9.3	79	0.00
77	T	3-Ethyltoluene	3.177	2.911	8.4	79	0.00
78	T	4-Ethyltoluene	2.954	2.653	10.2	79	0.00
79	T	1,3,5-Trimethylbenzene	2.515	2.286	9.1	79	0.00
80	T	alpha-Methylstyrene	0.752	0.722	4.0	80	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\19\01190701.D Vial: 1
Acq On : 19 Jan 2007 9:07 Operator: CH
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-01100701/S15-01110703 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Mon Jan 15 10:03:46 2007
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	2-Ethyltoluene	3.204	2.923	8.8	79	0.00
82	T	1,2,4-Trimethylbenzene	2.421	2.214	8.6	79	0.00
83	T	n-Decane	1.486	1.375	7.5	80	0.00
84	T	Benzyl Chloride	2.015	2.033	-0.9	79	0.00
85	T	1,3-Dichlorobenzene	1.588	1.441	9.3	78	0.00
86	T	1,4-Dichlorobenzene	1.570	1.426	9.2	78	0.00
87	T	sec-Butylbenzene	3.471	3.185	8.2	79	0.00
88	T	p-Isopropyltoluene	2.790	2.568	8.0	80	0.00
89	T	1,2,3-Trimethylbenzene	2.355	2.195	6.8	80	0.00
90	T	1,2-Dichlorobenzene	1.454	1.333	8.3	79	0.00
91	T	d-Limonene	1.047	0.988	5.6	79	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.501	0.552	-10.2	80	0.00
93	T	n-Undecane	1.478	1.393	5.8	81	0.00
94	T	1,2,4-Trichlorobenzene	0.246	0.272	-10.6	80	0.00
95	T	Naphthalene	3.265	3.384	-3.6	82	0.00
96	T	n-Dodecane	1.243	1.253	-0.8	83	0.00
97	T	Hexachloro-1,3-butadiene	0.458	0.430	6.1	80	0.00

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\19\01190705.D Vial: 1
Acq On : 19 Jan 2007 11:46 Operator: CH
Sample : 1ng TO-15 CRQL Inst : MS02
Misc : S15-01100701/S15-01110701 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Mon Jan 15 10:03:46 2007
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	88	-0.02
2	T	Propene	1.050	1.188	-13.1	91	0.02
3	T	Dichlorodifluoromethane	2.010	2.091	-4.0	86	0.02
4	T	Chloromethane	1.923	1.990	-3.5	84	0.02
5	T	Freon 114	0.911	1.006	-10.4	89	0.01
6	T	Vinyl Chloride	1.516	1.586	-4.6	89	0.01
7	T	1,3-Butadiene	1.172	1.173	-0.1	90	0.02
8	T	Bromomethane	1.312	1.385	-5.6	90	0.02
9	T	Chloroethane	0.994	1.005	-1.1	86	0.01
10	T	Ethanol	0.595	0.426	28.4	119	-0.02
11	T	Acetonitrile	1.979	1.964	0.8	90	0.00
12	T	Acrolein	0.650	0.581	10.6	80	0.00
13	T	Acetone	0.891	1.398	-56.9#	115	0.00
14	T	Trichlorofluoromethane	1.586	1.638	-3.3	87	0.00
15	T	Isopropanol	2.906	4.326	-48.9#	121	-0.02
16	T	Acrylonitrile	1.367	1.230	10.0	85	-0.01
17	T	1,1-Dichloroethene	1.160	1.131	2.5	85	0.00
18	T	tert-Butanol	2.722	2.906	-6.8	88	-0.02
19	T	Methylene Chloride	1.364	1.339	1.8	84	0.00
20	T	Allyl Chloride	1.248	1.195	4.2	89	0.00
21	T	Trichlorotrifluoroethane	0.916	0.741	19.1	72	0.00
22	T	Carbon Disulfide	5.108	5.314	-4.0	89	0.00
23	T	trans-1,2-Dichloroethene	1.713	1.622	5.3	84	0.00
24	T	1,1-Dichloroethane	1.914	1.908	0.3	81	-0.02
25	T	Methyl tert-Butyl Ether	3.040	2.756	9.3	79	-0.01
26	T	Vinyl Acetate	0.253	0.196	22.5	139	0.00
27	T	2-Butanone	0.765	0.680	11.1	80	-0.01
28	T	cis-1,2-Dichloroethene	1.578	1.462	7.4	81	-0.02
29	T	Diisopropyl Ether	0.858	0.782	8.9	79	-0.01
30	T	Ethyl Acetate	0.359	0.304	15.3	82	0.00
31	T	n-Hexane	1.623	1.486	8.4	80	0.00
32	T	Chloroform	1.725	1.651	4.3	84	-0.02
33	S	1,2-Dichloroethane-d4 (SS1)	1.255	1.233	1.8	88	-0.02
34	T	Tetrahydrofuran	0.749	0.672	10.3	82	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.187	5.9	81	0.00
36	T	1,2-Dichloroethane	1.386	1.329	4.1	85	-0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	86	-0.01
38	T	1,1,1-Trichloroethane	0.367	0.340	7.4	80	-0.01
39	T	Isopropyl Acetate	0.196	0.177	9.7	82	-0.01
40	T	1-Butanol	0.259	0.324	-25.1	84	0.02

42

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\19\01190705.D
Acq On : 19 Jan 2007 11:46
Sample : 1ng TO-15 CRQL
Misc : S15-01100701/S15-01110701
MS Integration Params: rteint.p

Vial : 1
Operator : CH
Inst : MS02
Multiplr : 1.00

Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Mon Jan 15 10:03:46 2007
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.147	1.195	-4.2	86	-0.01
42	T	Carbon Tetrachloride	0.245	0.193	21.2	87	-0.01
43	T	Cyclohexane	0.438	0.425	3.0	81	0.00
44	T	tert-Amyl Methyl Ether	0.810	0.760	6.2	81	0.00
45	T	1,2-Dichloropropane	0.285	0.278	2.5	83	-0.02
46	T	Bromodichloromethane	0.341	0.326	4.4	81	-0.02
47	T	Trichloroethene	0.337	0.323	4.2	79	0.00
48	T	1,4-Dioxane	0.231	0.210	9.1	82	-0.01
49	T	Isooctane	1.070	1.071	-0.1	85	0.00
50	T	Methyl Methacrylate	0.151	0.134	11.3	72	0.00
51	T	n-Heptane	0.269	0.272	-1.1	88	-0.01
52	T	cis-1,3-Dichloropropene	0.455	0.440	3.3	83	0.00
53	T	4-Methyl-2-pentanone	0.260	0.253	2.7	85	0.00
54	T	trans-1,3-Dichloropropene	0.395	0.384	2.8	87	0.00
55	T	1,1,2-Trichloroethane	0.297	0.285	4.0	81	-0.01
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	90	0.00
57	S	Toluene-d8 (SS2)	2.348	2.332	0.7	88	-0.01
58	T	Toluene	2.750	2.680	2.5	82	-0.01
59	T	2-Hexanone	1.619	1.608	0.7	88	0.00
60	T	Dibromochloromethane	0.796	0.701	11.9	79	-0.01
61	T	1,2-Dibromoethane	0.906	0.863	4.7	82	0.00
62	T	Butyl Acetate	1.776	1.781	-0.3	90	0.00
63	T	n-Octane	0.560	0.551	1.6	84	0.00
64	T	Tetrachloroethene	0.791	0.741	6.3	78	0.00
65	T	Chlorobenzene	1.968	1.916	2.6	81	0.00
66	T	Ethylbenzene	3.069	3.091	-0.7	84	0.00
67	T	m- & p-Xylene	1.940	1.956	-0.8	83	0.00
68	T	Bromoform	0.554	0.483	12.8	79	0.00
69	T	Styrene	2.001	1.974	1.3	85	0.00
70	T	o-Xylene	2.100	2.136	-1.7	85	0.00
71	T	n-Nonane	1.331	1.306	1.9	84	0.00
72	T	1,1,2,2-Tetrachloroethane	1.127	1.125	0.2	86	0.00
73	S	Bromofluorobenzene (SS3)	0.768	0.757	1.4	89	0.00
74	T	Cumene	2.918	2.890	1.0	83	0.00
75	T	alpha-Pinene	1.540	1.523	1.1	84	0.00
76	T	n-Propylbenzene	3.688	3.725	-1.0	84	0.00
77	T	3-Ethyltoluene	3.177	3.188	-0.3	85	0.00
78	T	4-Ethyltoluene	2.954	2.978	-0.8	82	0.00
79	T	1,3,5-Trimethylbenzene	2.515	2.619	-4.1	86	0.00
80	T	alpha-Methylstyrene	0.752	0.701	6.8	79	0.00

43

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\19\01190705.D Vial: 1
Acq On : 19 Jan 2007 11:46 Operator: CH
Sample : 1ng TO-15 CRQL Inst : MS02
Misc : S15-01100701/S15-01110701 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Mon Jan 15 10:03:46 2007
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	2-Ethyltoluene	3.204	3.243	-1.2	85	0.00
82	T	1,2,4-Trimethylbenzene	2.421	2.498	-3.2	83	0.00
83	T	n-Decane	1.486	1.529	-2.9	86	0.00
84	T	Benzyl Chloride	2.015	1.852	8.1	86	0.00
85	T	1,3-Dichlorobenzene	1.588	1.568	1.3	83	0.00
86	T	1,4-Dichlorobenzene	1.570	1.561	0.6	84	0.00
87	T	sec-Butylbenzene	3.471	3.497	-0.7	84	0.00
88	T	p-Isopropyltoluene	2.790	2.903	-4.1	83	0.00
89	T	1,2,3-Trimethylbenzene	2.355	2.419	-2.7	85	0.00
90	T	1,2-Dichlorobenzene	1.454	1.442	0.8	82	0.00
91	T	d-Limonene	1.047	1.010	3.5	81	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.501	0.422	15.8	89	0.00
93	T	n-Undecane	1.478	1.471	0.5	83	0.00
94	T	1,2,4-Trichlorobenzene	0.246	0.198	19.5	83	0.02
95	T	Naphthalene	3.265	2.964	9.2	86	0.02
96	T	n-Dodecane	1.243	1.148	7.6	78	0.01
97	T	Hexachloro-1,3-butadiene	0.458	0.441	3.7	81	0.00

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\19\01190714.D Vial: 1
Acq On : 19 Jan 2007 17:55 Operator: CH
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-01100701/S15-01110703 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Mon Jan 15 10:03:46 2007
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	84	0.00
2	T	Propene	1.050	0.954	9.1	78	0.00
3	T	Dichlorodifluoromethane	2.010	1.748	13.0	75	0.00
4	T	Chloromethane	1.923	1.713	10.9	75	0.00
5	T	Freon 114	0.911	0.758	16.8	69	0.00
6	T	Vinyl Chloride	1.516	1.321	12.9	74	0.00
7	T	1,3-Butadiene	1.172	1.148	2.0	81	0.00
8	T	Bromomethane	1.312	1.189	9.4	76	0.00
9	T	Chloroethane	0.994	0.944	5.0	81	0.00
10	T	Ethanol	0.595	0.691	-16.1	86	0.00
11	T	Acetonitrile	1.979	1.980	-0.1	82	0.00
12	T	Acrolein	0.650	0.567	12.8	74	0.00
13	T	Acetone	0.891	0.767	13.9	79	0.00
14	T	Trichlorofluoromethane	1.586	1.399	11.8	76	0.00
15	T	Isopropanol	2.906	2.931	-0.9	82	0.00
16	T	Acrylonitrile	1.367	1.362	0.4	81	0.00
17	T	1,1-Dichloroethene	1.160	1.081	6.8	77	0.00
18	T	tert-Butanol	2.722	2.615	3.9	82	0.00
19	T	Methylene Chloride	1.364	1.226	10.1	78	0.00
20	T	Allyl Chloride	1.248	1.225	1.8	82	0.00
21	T	Trichlorotrifluoroethane	0.916	0.712	22.3	67	0.00
22	T	Carbon Disulfide	5.108	4.545	11.0	79	0.00
23	T	trans-1,2-Dichloroethene	1.713	1.557	9.1	77	0.00
24	T	1,1-Dichloroethane	1.914	1.846	3.6	80	0.00
25	T	Methyl tert-Butyl Ether	3.040	2.580	15.1	73	0.00
26	T	Vinyl Acetate	0.253	0.279	-10.3	82	0.00
27	T	2-Butanone	0.765	0.735	3.9	79	0.00
28	T	cis-1,2-Dichloroethene	1.578	1.455	7.8	78	0.00
29	T	Diisopropyl Ether	0.858	0.734	14.5	73	0.00
30	T	Ethyl Acetate	0.359	0.362	-0.8	80	0.00
31	T	n-Hexane	1.623	1.312	19.2	71	0.00
32	T	Chloroform	1.725	1.560	9.6	76	0.00
33	S	1,2-Dichloroethane-d4 (SS1)	1.255	1.252	0.2	85	0.00
34	T	Tetrahydrofuran	0.749	0.693	7.5	77	0.00
35	T	Ethyl tert-Butyl Ether	1.261	1.081	14.3	73	0.00
36	T	1,2-Dichloroethane	1.386	1.253	9.6	77	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	83	0.00
38	T	1,1,1-Trichloroethane	0.367	0.331	9.8	74	0.00
39	T	Isopropyl Acetate	0.196	0.198	-1.0	80	0.00
40	T	1-Butanol	0.259	0.253	2.3	82	0.00

45

(#) = Out of Range

1/22/07

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\19\01190714.D Vial : 1
Acq On : 19 Jan 2007 17:55 Operator : CH
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-01100701/S15-01110703 Multiplr : 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Mon Jan 15 10:03:46 2007
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Benzene	1.147	1.047	8.7	77	0.00
42	T	Carbon Tetrachloride	0.245	0.258	-5.3	74	0.00
43	T	Cyclohexane	0.438	0.389	11.2	74	0.00
44	T	tert-Amyl Methyl Ether	0.810	0.736	9.1	75	0.00
45	T	1,2-Dichloropropane	0.285	0.270	5.3	78	0.00
46	T	Bromodichloromethane	0.341	0.330	3.2	77	0.00
47	T	Trichloroethene	0.337	0.301	10.7	75	0.00
48	T	1,4-Dioxane	0.231	0.229	0.9	78	0.00
49	T	Isooctane	1.070	0.965	9.8	76	0.00
50	T	Methyl Methacrylate	0.151	0.138	8.6	75	0.00
51	T	n-Heptane	0.269	0.249	7.4	76	0.00
52	T	cis-1,3-Dichloropropene	0.455	0.450	1.1	78	0.00
53	T	4-Methyl-2-pentanone	0.260	0.259	0.4	79	0.00
54	T	trans-1,3-Dichloropropene	0.395	0.391	1.0	77	0.00
55	T	1,1,2-Trichloroethane	0.297	0.281	5.4	77	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	83	0.00
57	S	Toluene-d8 (SS2)	2.348	2.340	0.3	84	0.00
58	T	Toluene	2.750	2.457	10.7	77	0.00
59	T	2-Hexanone	1.619	1.577	2.6	79	0.00
60	T	Dibromochloromethane	0.796	0.745	6.4	75	0.00
61	T	1,2-Dibromoethane	0.906	0.847	6.5	77	0.00
62	T	Butyl Acetate	1.776	1.761	0.8	80	0.00
63	T	n-Octane	0.560	0.537	4.1	79	0.00
64	T	Tetrachloroethene	0.791	0.692	12.5	73	0.00
65	T	Chlorobenzene	1.968	1.785	9.3	77	0.00
66	T	Ethylbenzene	3.069	2.820	8.1	77	0.00
67	T	m- & p-Xylene	1.940	1.785	8.0	77	0.00
68	T	Bromoform	0.554	0.517	6.7	74	0.00
69	T	Styrene	2.001	1.913	4.4	78	0.00
70	T	o-Xylene	2.100	1.939	7.7	77	0.00
71	T	n-Nonane	1.331	1.291	3.0	81	0.00
72	T	1,1,2,2-Tetrachloroethane	1.127	1.098	2.6	78	0.00
73	S	Bromofluorobenzene (SS3)	0.768	0.754	1.8	82	0.00
74	T	Cumene	2.918	2.724	6.6	78	0.00
75	T	alpha-Pinene	1.540	1.447	6.0	77	0.00
76	T	n-Propylbenzene	3.688	3.434	6.9	77	0.00
77	T	3-Ethyltoluene	3.177	2.937	7.6	76	0.00
78	T	4-Ethyltoluene	2.954	2.800	5.2	80	0.00
79	T	1,3,5-Trimethylbenzene	2.515	2.353	6.4	78	0.00
80	T	alpha-Methylstyrene	0.752	0.727	3.3	77	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\MS02\DATA\2007_01\19\01190714.D Vial : 1
Acq On : 19 Jan 2007 17:55 Operator : CH
Sample : 25ng TO-15 CCV Std Inst : MS02
Misc : S15-01100701/S15-01110703 Multiplr : 1.00
MS Integration Params: rteint.p

Method : J:\MS02\METHODS\R2011207.M (RTE Integrator)
Title : TO-15 Tekmar AutoCan/HP 5890/HP 5972 MSD
Last Update : Mon Jan 15 10:03:46 2007
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	2-Ethyltoluene	3.204	3.013	6.0	78	0.00
82	T	1,2,4-Trimethylbenzene	2.421	2.288	5.5	78	0.00
83	T	n-Decane	1.486	1.448	2.6	80	0.00
84	T	Benzyl Chloride	2.015	2.093	-3.9	78	0.00
85	T	1,3-Dichlorobenzene	1.588	1.473	7.2	77	0.00
86	T	1,4-Dichlorobenzene	1.570	1.445	8.0	76	0.00
87	T	sec-Butylbenzene	3.471	3.277	5.6	78	0.00
88	T	p-Isopropyltoluene	2.790	2.648	5.1	79	0.00
89	T	1,2,3-Trimethylbenzene	2.355	2.256	4.2	79	0.00
90	T	1,2-Dichlorobenzene	1.454	1.359	6.5	77	0.00
91	T	d-Limonene	1.047	1.041	0.6	80	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.501	0.552	-10.2	76	0.00
93	T	n-Undecane	1.478	1.440	2.6	80	0.00
94	T	1,2,4-Trichlorobenzene	0.246	0.267	-8.5	76	0.00
95	T	Naphthalene	3.265	3.379	-3.5	79	0.00
96	T	n-Dodecane	1.243	1.286	-3.5	81	0.00
97	T	Hexachloro-1,3-butadiene	0.458	0.422	7.9	75	0.00

1/22/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Project ID: **WDI** CAS Project ID: P2700092

Internal Standard Area and RT Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2 Lab File ID: 01190701.D
Analyst: Chaney Humphrey Date Analyzed: 01/19/07
Sampling Media: Summa Canister(s) Time Analyzed: 09:07
Test Notes:

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	246124	9.32	947296	11.29	409214	16.12
	Upper Limit	344574	9.65	1326214	11.62	572900	16.45
	Lower Limit	147674	8.99	568378	10.96	245528	15.79
	Client Sample ID						
01	Method Blank	231876	9.30	949005	11.27	389452	16.12
02	Lab Control Sample	238582	9.32	935078	11.29	396536	16.12
03	Duplicate Lab Control Sample	238357	9.32	936048	11.29	393262	16.13
04	WDI-IBM-03-1-6-07	237982	9.32	945581	11.28	392317	16.13
05							
06							
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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: KW Date: 1/26/07

	DATE/TIME	FILENAME	SAMPLE ID	MISC. INFO	AS POS	INIT	COMMENT
1	1/11/07 9:20	01110701.D	5ng TO-15 CCV Std	S15-01100701/S15-12150606	1	CH	Pass for 4-7
2	1/11/07 10:13	01110702.D	Method Blank (1000ml)	S15-01100701	1		Pass
3	1/11/07 10:51	01110703.D	25ng TO-15 LCS	S15-01100701/S15-01040705	2		Pass
4	1/11/07 11:41	01110704.D	P2700067-001 (0.20ml)	[redacted]	1		
5	1/11/07 12:16	01110705.D	P2700067-001 Dup (0.20ml)	[redacted]	1		Pass as Dup.
6	1/11/07 12:54	01110706.D	P2700067-002 (2.5ml)	[redacted]	1		
7	1/11/07 13:30	01110707.D	P2700067-003 (200ml)	[redacted]	3		
8	1/11/07 14:06	01110708.D	P2700002-005 Dil (100ml)	[redacted]	4		
9	1/11/07 14:42	01110709.D	P2700069-001 (200ml)	[redacted]	5		
10	1/11/07 15:16	01110710.D	P2700069-003 (200ml)	[redacted]	6		
11	1/11/07 15:51	01110711.D	P2700069-005 (200ml)	[redacted]	7		
12	1/11/07 16:25	01110712.D	P2700069-007 (200ml)	[redacted]	8		
13	1/11/07 17:02	01110713.D	P2700069-009 (200ml)	[redacted]	9		
14	1/11/07 17:36	01110714.D	P2700069-011 (200ml)	[redacted]	10		
15	1/11/07 18:13	01110715.D	1ng STD Check	S15-01100701/S15-01110701	1		
16	1/11/07 18:49	01110716.D	25ng STD Check	S15-01100701/S15-01110703	1		
17	1/11/07 19:26	01110717.D	25ng STD Check	S15-01100701/S15-01040701	11	↓	
1	1/12/07 9:41	01120701.D	Blank (100ml)	Tune Check	1	CH	
2	1/12/07 10:32	01120702.D	Blank (100ml)	Tune Check	1		
3	1/12/07 11:23	01120703.D	Blank (100ml)	Tune Check	1		
4	1/12/07 12:29	01120704.D	Blank (100ml)	Tune Check	1		
5	1/12/07 13:13	01120705.D	Blank (100ml)	EM Adjustment	1		
6	1/12/07 14:28	01120706.D	Blank (100ml)	EM Adjustment	1		
7	1/12/07 15:05	01120707.D	25ng STD Check	S15-01100701/S15-01110703	1		
8	1/12/07 15:41	01120708.D	1ng STD Check	S15-01100701/S15-01110701	1		
9	1/12/07 16:17	01120709.D	0.5ng TO-15 ICAL STD	S15-01100701/S15-01110701	1		ICAL Good for cal 0.5-100ng
10	1/12/07 16:54	01120710.D	1ng TO-15 ICAL STD	S15-01100701/S15-01110701	1		except Acetone, Ethanol, 1-butanol
11	1/12/07 17:31	01120711.D	5ng TO-15 ICAL STD	S15-01100701/S15-01110701	1		& Vinyl Acetate 1ng - 100ng
12	1/12/07 18:07	01120712.D	25ng TO-15 ICAL STD	S15-01100701/S15-01110703	1		
13	1/12/07 18:44	01120713.D	50ng TO-15 ICAL STD	S15-01100701/S15-01110703	1		
14	1/12/07 19:21	01120714.D	100ng TO-15 ICAL STD	S15-01100701/S15-01110703	1		
15	1/12/07 19:57	01120715.D	25ng TO-15 ICV	S15-01100701/S15-01040705	2		Not Used
16	1/12/07 20:34	01120716.D	25ng TO-15 ICV	S15-01100701/S15-01040701	3	↓	Pass
1	1/15/07 10:23	01150701.D	Blank (100ml)	System Check	1	CH	
2	1/15/07 10:59	01150702.D	5ng TO-15 CCV Std	S15-01100701/S15-01110701	1		Pass
3	1/15/07 11:48	01150703.D	Method Blank (1000ml)	S15-01100701	1		Pass
4	1/15/07 12:23	01150704.D	Desorb Blank (200ml)	10min @ 100ml/min @ 350 C	3		
5	1/15/07 13:00	01150705.D	25ng TO-15 LCS	S15-01100701/S15-01040701	2		Pass
6	1/15/07 13:36	01150706.D	P2700076-003 (0.10ml)	[redacted]	1	↓	
7	1/15/07 14:48	01150707.D	P2700085-001 (200ml)	[redacted]	4	CH	
8	1/15/07 15:41	01150708.D	P2700085-002 (0.00080ml) Dil CH 1/16/07	[redacted]	1	CH	
9	1/15/07 16:15	01150709.D	P2700085-002 (0.0080ml)	[redacted]	1	CH	
10	1/15/07 16:50	01150710.D	P2700085-004 Dil (0.00050ml)	[redacted]	1	CH	
11	1/15/07 17:26	01150711.D	P2700085-004 (0.0050ml)	[redacted]	1	CH	
12	1/15/07 18:00	01150712.D	P2700085-003 (25ml) Dil CH 1/16/07	[redacted]	5	CH	
13	1/15/07 18:50	01150713.D	P2700085-003 (200ml)	[redacted]	5	CH	
14	1/15/07 19:27	01150714.D	Blank (100ml)	System Check	1	CH	
15	1/15/07 20:04	01150715.D	P2700098-002 (400ml)	[redacted]	1		
16	1/15/07 20:40	01150716.D	P2700098-002 Dup (400ml)	[redacted]	1	↓	Pass as Dup

	DATE/TIME	FILENAME	SAMPLE ID	MISC. INFO	AS POS	INIT	COMMENT
25	1/19/07 1:37	01180725.D	P2700130-001 Dil (100ml)	[redacted]	10	CH	Case File: Dil Not Needed
26	1/19/07 2:14	01180726.D	P2700127-002 (25ml) Dil CH 1/23/07	[redacted]	12		Case File; Dil Not Needed
27	1/19/07 2:51	01180727.D	P2700127-003 (200ml)	[redacted]	13		
28	1/19/07 3:28	01180728.D	Blank (100ml)	System Check	1		
29	1/19/07 4:08	01180729.D	CAS QC3 1/16/07 (1000ml)	AC00822	14		Pass
30	1/19/07 4:49	01180730.D	CAS QC1 1/16/07 (1000ml)	SC00797	15		Pass except for Acetone
1	1/19/07 9:07	01190701.D	25ng TO-15 CCV Std	S15-01100701/S15-01110703	1	CH	Pass
2	1/19/07 9:56	01190702.D	Method Blank (1000ml)	S15-01100701	1		Pass
3	1/19/07 10:32	01190703.D	25ng TO-15 LCS	S15-01100701/S15-01040701	2		Pass
4	1/19/07 11:09	01190704.D	25ng TO-15 LCSD	S15-01100701/S15-01040701	2		Pass as LCSD
5	1/19/07 11:46	01190705.D	1ng TO-15 CRQL	S15-01100701/S15-01110701	1		Pass
6	1/19/07 12:35	01190706.D	P2700092-001 (1000ml)	TRC WDI-IBM-03-1-6-07 (-4.9, 3.7)	3		
7	1/19/07 13:16	01190707.D	P2700141-001 (25ml)	[redacted]	4		
8	1/19/07 13:53	01190708.D	P2700141-001 (200ml)	[redacted]	4		
9	1/19/07 14:29	01190709.D	P2700128-001 Dil (50ml)	[redacted]	11		
10	1/19/07 15:06	01190710.D	P2700128-001 (200ml)	[redacted]	11		
11	1/19/07 16:10	01190711.D	P2700127-001 (0.20ml)	[redacted]	1		
12	1/19/07 16:44	01190712.D	P2700127-001 Dup (0.20ml)	[redacted]	1		Pass as Dup
13	1/19/07 17:19	01190713.D	P2700127-002 (200ml)	[redacted]	12		
14	1/19/07 17:55	01190714.D	25ng TO-15 CCV Std	S15-01100701/S15-01110703	1		Pass as CW
15	1/19/07 18:36	01190715.D	Blank (100ml)	System Check	1		
16	1/19/07 19:13	01190716.D	P2700128-001 (200ml)	[redacted]	14		
17	1/19/07 19:49	01190717.D	Blank (100ml)	System Check	1		
18	1/19/07 20:29	01190718.D	P2700113-001 (1000ml)	[redacted]	5		
19	1/19/07 21:09	01190719.D	P2700113-002 (1000ml)	[redacted]	6		
20	1/19/07 21:46	01190720.D	P2700113-002 Dil (100ml)	[redacted]	6		
21	1/19/07 22:26	01190721.D	P2700113-003 (1000ml)	[redacted]	7		
22	1/19/07 23:06	01190722.D	P2700099-001 (1000ml)	[redacted]	8		
23	1/19/07 23:46	01190723.D	P2700099-002 (1000ml)	[redacted]	9		
24	1/20/07 0:23	01190724.D	Blank (100ml)	System Check	1		
25	1/20/07 1:03	01190725.D	CAS QC3 1/18/07 (1000ml)	AC01254	10		Pass
26	1/20/07 1:43	01190726.D	CAS QC2 1/18/07 (1000ml)	SC00664	11		Fail
27	1/20/07 2:24	01190727.D	CAS QC1 1/18/07 (1000ml)	SC00743	13		Pass
1	1/22/07 7:55	01220701.D	25ng TO-15 CCV Std	S15-01100701/S15-01110703	1	CH	Not used
2	1/22/07 8:45	01220702.D	5ng TO-15 CCV Std	S15-01100701/S15-01110701	1		Pass
3	1/22/07 9:37	01220703.D	Method Blank (1000ml)	S15-01100701 (Lot# 481240630821) HZA QC			Pass As MB, Pass as HZA QC check
4	1/22/07 10:17	01220704.D	25ng TO-15 LCS	S15-01100701/S15-01040701	2		Pass (Not for A2 for VA)
5	1/22/07 11:10	01220705.D	P2700086-001 (1.5ml) Dil2 CH 1/23/07	[redacted]	1		Case File; Dil2 Not Needed
6	1/22/07 11:50	01220706.D	P2700086-001 (20ml)	[redacted]	1		
7	1/22/07 12:34	01220707.D	P2700086-001 Dil (10ml)	[redacted]	1		
8	1/22/07 13:10	01220708.D	P2700086-002 (8.0ml)	[redacted]	1		Case File; Run @ higher vol
9	1/22/07 13:47	01220709.D	P2700086-004 (25ml)	[redacted]	3		Case File; Run @ higher vol
10	1/22/07 14:33	01220710.D	P2700086-004 (500ml)	[redacted]	3		
11	1/22/07 15:13	01220711.D	P2700086-004 Dup (500ml)	[redacted]	3		Pass as Dup
12	1/22/07 15:51	01220712.D	P2700086-003 (15ml)	[redacted]	1		
13	1/22/07 16:27	01220713.D	P2700086-002 (15ml)	[redacted]	1		

	DATE/TIME	FIL
16	1/22/07 18:54	01
17	1/22/07 19:30	01
18	1/22/07 20:06	01
19	1/22/07 20:42	01
20	1/22/07 21:19	01
21	1/22/07 21:56	01
22	1/22/07 22:32	01
23	1/22/07 23:09	01
24	1/22/07 23:46	01
25	1/23/07 0:23	0
26	1/23/07 1:04	0
27	1/23/07 1:44	0
28	1/23/07 2:24	0
29	1/23/07 3:04	0
30	1/23/07 3:45	0
1	1/23/07 9:12	0
2	1/23/07 10:10	0
3	1/23/07 10:51	0
4	1/23/07 11:47	0
5	1/23/07 12:24	0
6	1/23/07 13:02	0
7	1/23/07 14:21	0
8	1/23/07 15:07	0
9	1/23/07 15:44	0
10	1/23/07 16:18	0
11	1/23/07 16:54	0
12	1/23/07 17:31	0
13	1/23/07 18:07	0
14	1/23/07 18:45	0
15	1/23/07 19:21	0
16	1/23/07 19:56	0
17	1/23/07 20:32	0
18	1/23/07 21:09	0
19	1/23/07 21:46	0
20	1/23/07 22:23	0
21	1/23/07 23:00	0
22	1/23/07 23:36	0
23	1/24/07 0:13	0
24	1/24/07 0:54	0
25	1/24/07 1:34	0
26	1/24/07 2:11	0
27	1/24/07 2:48	0

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700092
CAS Sample ID: P070117-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: 1/17/07
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: MS Date: 1/26/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: TRC
Client Project ID: WDI

CAS Project ID: P2700092

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: 1/6/07
Date Received: 1/12/07
Date Analyzed: 1/17/07

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	P070117-MB	**101**	80-120	**92**	80-120	**99**	80-120	
Lab Control Sample	P070117-LCS	**95**	80-120	**94**	80-120	**96**	80-120	
Duplicate Lab Control Sample	P070117-DLCS	**94**	80-120	**92**	80-120	**97**	80-120	
WDI-IBM-03-1-6-07	P2700092-001	**113**	80-120	**95**	80-120	**104**	80-120	

Verified By: MY Date: 1/26/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700092
CAS Sample ID: P070117-LCS, P070117-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: 1/17/07
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS pg	Result LCS pg	Result DLCS pg	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Vinyl Chloride	495	497	576	**100**	**116**	65-135	**15**	35	
1,2-Dibromoethane	520	525	613	**101**	**118**	65-135	**16**	35	

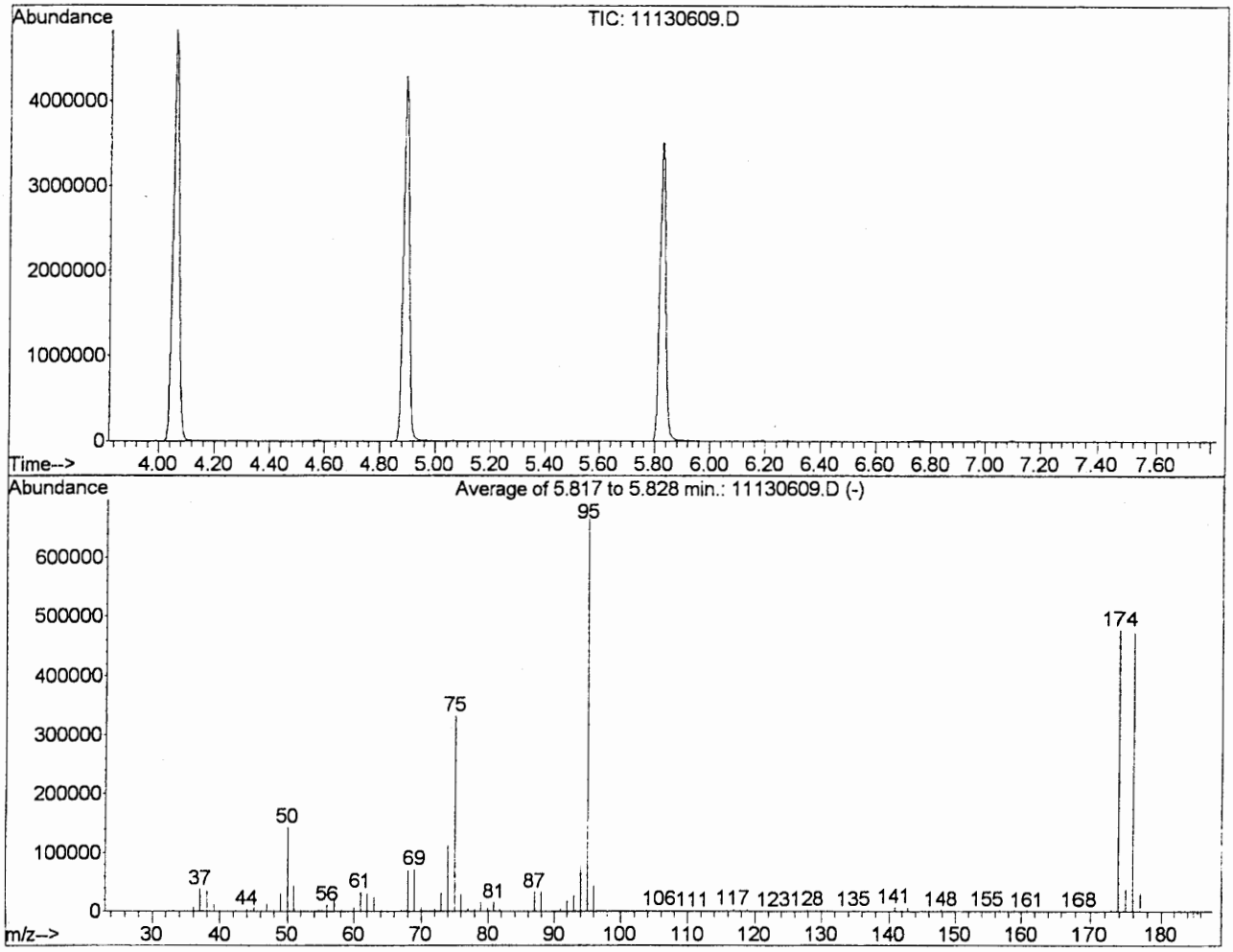
Verified By: HJ Date: 1/26/07

ICAL

BFB

Data File : J:\MS07\DATA\2006_11\13\11130609.D
Acq On : 13 Nov 2006 13:43
Sample : 25ng BFB
Misc :
MS Integration Params: rteint.p
Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM

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



AutoFind: Scans 499, 500, 501; Background Corrected with Scan 491

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.5	142904	PASS
75	95	30	66	49.9	331776	PASS
95	95	100	100	100.0	664533	PASS
96	95	5	9	6.5	43317	PASS
173	174	0.00	2	0.3	1558	PASS
174	95	50	120	71.8	477162	PASS
175	174	4	9	7.8	36997	PASS
176	174	93	101	98.9	472149	PASS
177	176	5	9	6.4	30226	PASS

11130609.D X7111306.M Mon Nov 13 18:14:57 2006 MSD7

11/14/06

Response Factor Report MSD7

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
Response via : Initial Calibration

Calibration Files
10 =11130610.D 25 =11130611.D 100 =11130612.D 250 =11130613.D 500 =11130614.D
1000 =11130615.D 2500 =11130616.D 9999 =11130617.D = =

		Compound	10	25	100	250	500	1000	2500	9999	Avg	%RSD
1)	I	Bromochloromethan	---ISTD---									
2)	T	Dichlorodifluorom	3.777	3.516	2.855	3.006	3.081	2.885	2.830	2.714	3.083	12.06
3)	T	Chloromethane			1.028	0.990	0.982	0.928	0.897	0.873	0.950	6.33
4)	T	Vinyl Chloride	2.816	2.930	2.386	2.518	2.583	2.621	2.578	2.476	2.613	6.83
5)	T	Chloroethane	1.470	1.383	1.221	1.238	1.251	1.192	1.187	1.177	1.265	8.35
6)	T	Acetone			3.037	2.411	2.103	1.777	1.799	1.563	2.115	25.53
7)	T	1,1-Dichloroethen	1.419	1.322	1.205	1.273	1.291	1.239	1.249	1.250	1.281	5.14
8)	T	Methylene Chlorid			1.418	1.478	1.512	1.440	1.431	1.372	1.442	3.37
9)	T	Trichlorotrifluor	1.454	1.254	1.078	1.117	1.166	1.103	1.082	1.067	1.165	11.32
10)	T	trans-1,2-Dichlor	1.383	1.417	1.314	1.405	1.456	1.389	1.380	1.390	1.392	2.87
11)	T	1,1-Dichloroethan	3.088	2.143	2.714	2.850	2.898	2.246	2.198	2.319	2.557	14.50
12)	T	Methyl tert-Butyl	4.154	3.883	4.112	4.268	4.373	3.774	3.626	3.684	3.984	7.04
13)	T	cis-1,2-Dichloroe	1.469	1.434	1.299	1.426	1.500	1.389	1.400	1.408	1.416	4.23
14)	T	Chloroform			2.248	2.301	2.318	2.109	1.990	1.983	2.158	7.04
15)	S	1,2-Dichloroethan	2.161	2.192	2.159	2.176	2.118	2.101	2.028	1.965	2.112	3.74
16)	T	1,2-Dichloroethan	1.813	1.974	1.817	1.937	2.020	1.926	1.924	1.912	1.915	3.70
17)	T	1,1,1-Trichloroet	2.291	2.082	2.004	2.145	2.192	2.056	2.043	2.043	2.107	4.56
18)	T	Benzene			9.907	7.648	7.061	6.299	6.123	6.059	7.183	20.48
19)	T	Carbon Tetrachlor	1.682	1.352	1.540	1.627	1.704	1.581	1.605	1.656	1.593	6.98
20)	I	1,4-Difluorobenze	---ISTD---									
21)	T	1,2-Dichloropropa	0.337	0.295	0.282	0.293	0.308	0.293	0.295	0.296	0.300	5.49
22)	T	Trichloroethene	0.360	0.256	0.228	0.234	0.241	0.230	0.232	0.240	0.253	17.53
23)	T	1,4-Dioxane	0.232	0.211	0.164	0.169	0.174	0.171	0.174	0.188	0.185	12.93
24)	T	cis-1,3-Dichlorop	0.389	0.358	0.363	0.410	0.417	0.404	0.417	0.446	0.400	7.32
25)	T	1,1,2-Trichloroet	0.237	0.219	0.199	0.210	0.216	0.208	0.212	0.219	0.215	5.07
26)	S	Toluene-d8 (SS2)	1.147	1.137	1.153	1.147	1.143	1.151	1.163	1.154	1.149	0.67
27)	T	Toluene		1.361	1.110	1.131	1.138	1.094	1.102	1.149	1.155	8.06

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

Response Factor Report MSD7

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
Response via : Initial Calibration

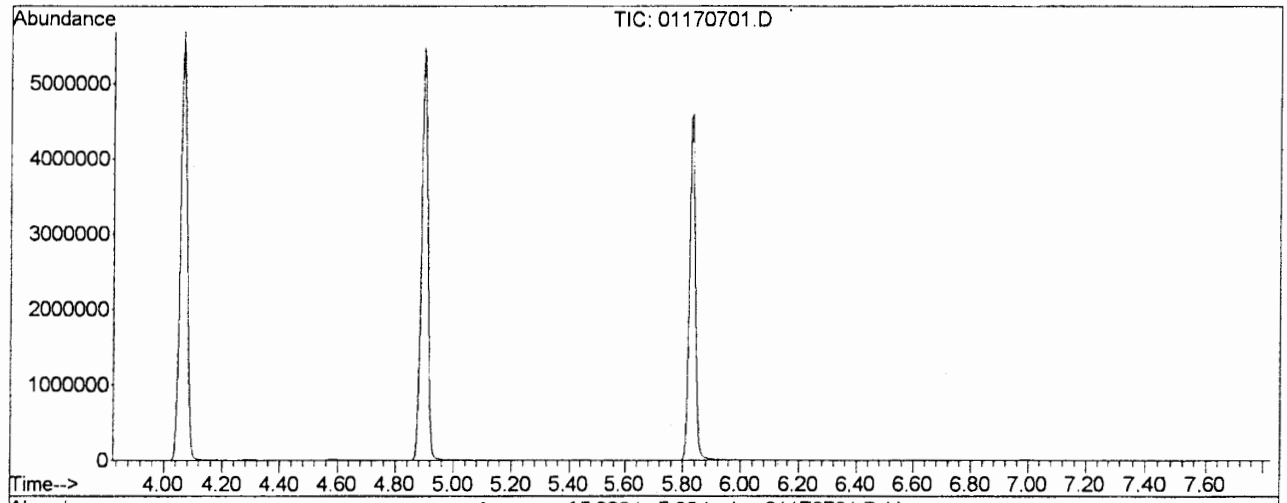
Calibration Files
10 =11130610.D 25 =11130611.D 100 =11130612.D 250 =11130613.D 500 =11130614.D
1000 =11130615.D 2500 =11130616.D 9999 =11130617.D = =

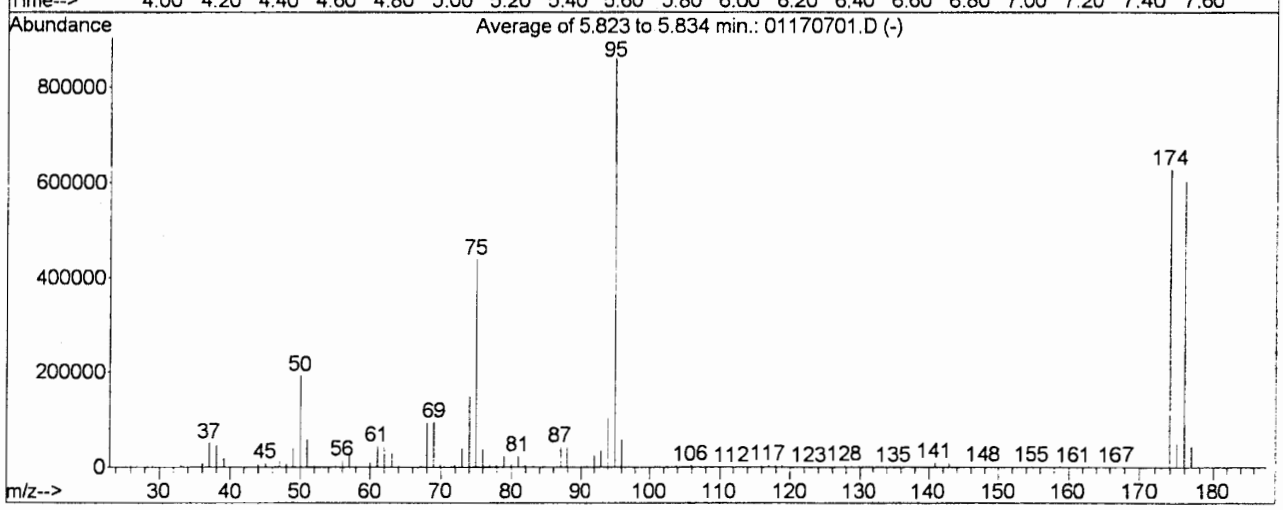
		Compound	10	25	100	250	500	1000	2500	9999	Avg	%RSD
28)	T	1,2-Dibromoethane	0.231	0.242	0.227	0.241	0.254	0.249	0.254	0.267	0.245	5.36
29)	T	Tetrachloroethene	0.258	0.236	0.226	0.241	0.247	0.237	0.239	0.245	0.241	3.84
30)	I	Chlorobenzene-d5	ISTD									
31)	T	Chlorobenzene	1.396	1.243	1.194	1.245	1.277	1.223	1.218	1.274	1.259	4.93
32)	T	Ethylbenzene	2.697	2.441	2.199	2.315	2.385	2.284	2.313	2.471	2.388	6.39
33)	T	m-&-p-Xylene	1.780	1.527	1.337	1.430	1.495	1.450	1.472	1.585	1.509	8.69
34)	T	o-Xylene	1.699	1.630	1.499	1.586	1.647	1.582	1.594	1.700	1.617	4.14
35)	T	1,1,2,2-Tetrachlo	0.817	0.764	0.696	0.747	0.786	0.740	0.757	0.793	0.763	4.90
36)	S	Bromofluorobenzen	0.669	0.671	0.665	0.668	0.678	0.678	0.691	0.688	0.676	1.44
37)	T	1,3-Dichlorobenze	0.910	0.903	0.832	0.916	0.971	0.931	0.962	1.058	0.935	6.97
38)	T	1,4-Dichlorobenze	1.055	0.962	0.864	0.885	0.939	0.905	0.937	1.012	0.945	6.79
39)	T	1,2-Dichlorobenze	0.880	0.854	0.783	0.859	0.911	0.871	0.891	0.969	0.877	6.01
40)	T	1,2,4-Trichlorobe	0.770	0.695	0.316	0.491	0.539	0.537	0.555	0.652	0.569	24.39
41)	T	Naphthalene			0.938	1.436	1.620	1.631	1.716	2.038	1.563	23.31
42)	T	Hexachlorobutadie				0.313	0.351	0.338	0.347	0.378	0.345	6.79

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

BFB

Data File : J:\MS07\DATA\2007_01\17\01170701.D Vial: 1
Acq On : 17 Jan 2007 9:19 Operator: AB
Sample : 25ng BFB Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM





AutoFind: Scans 500, 501, 502; Background Corrected with Scan 492

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.3	192448	PASS
75	95	30	66	50.8	437888	PASS
95	95	100	100	100.0	862058	PASS
96	95	5	9	6.6	56538	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	72.8	627754	PASS
175	174	4	9	7.8	48898	PASS
176	174	93	101	95.7	600746	PASS
177	176	5	9	7.0	42344	PASS

01170701.D X7111306.M Wed Jan 17 10:46:08 2007 MSD7

1/7/02

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_01\17\01170703.D Vial: 2
Acq On : 17 Jan 2007 10:11 Operator: AB
Sample : 500pg TO-15/SIM CCV std Inst : MSD7
Misc : S15-01030703/S15-12260604 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	79	0.01
2	T	Dichlorodifluoromethane	3.083	3.006	2.5	77	0.00
3	T	Chloromethane	0.950	0.950	0.0	76	0.01
4	T	Vinyl Chloride	2.613	2.526	3.3	77	0.00
5	T	Chloroethane	1.265	1.178	6.9	74	0.01
6	T	Acetone	2.115	2.629	-24.3	99	0.00
7	T	1,1-Dichloroethene	1.281	1.226	4.3	75	0.01
8	T	Methylene Chloride	1.442	1.423	1.3	74	0.01
9	T	Trichlorotrifluoroethane	1.165	1.076	7.6	73	0.00
10	T	trans-1,2-Dichloroethene	1.392	1.326	4.7	72	0.01
11	T	1,1-Dichloroethane	2.557	2.376	7.1	65	0.00
12	T	Methyl tert-Butyl Ether	3.984	4.036	-1.3	73	0.01
13	T	cis-1,2-Dichloroethene	1.416	1.367	3.5	72	0.01
14	T	Chloroform	2.158	2.341	-8.5	80	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	2.112	2.056	2.7	77	0.00
16	T	1,2-Dichloroethane	1.915	1.903	0.6	74	0.00
17	T	1,1,1-Trichloroethane	2.107	2.096	0.5	75	0.00
18	T	Benzene	7.183	7.428	-3.4	83	0.00
19	T	Carbon Tetrachloride	1.593	1.684	-5.7	78	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	77	0.00
21	T	1,2-Dichloropropane	0.300	0.294	2.0	73	0.00
22	T	Trichloroethene	0.253	0.237	6.3	75	0.00
23	T	1,4-Dioxane	0.185	0.185	0.0	82	0.00
24	T	cis-1,3-Dichloropropene	0.400	0.415	-3.7	76	0.00
25	T	1,1,2-Trichloroethane	0.215	0.209	2.8	74	0.00
26	S	Toluene-d8 (SS2)	1.149	1.059	7.8	71	0.00
27	T	Toluene	1.155	1.101	4.7	74	0.00
28	T	1,2-Dibromoethane	0.245	0.247	-0.8	74	0.00
29	T	Tetrachloroethene	0.241	0.239	0.8	74	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	75	0.00
31	T	Chlorobenzene	1.259	1.274	-1.2	75	0.00
32	T	Ethylbenzene	2.388	2.313	3.1	73	0.00
33	T	m-&-p-Xylene	1.509	1.436	4.8	72	0.00
34	T	o-Xylene	1.617	1.594	1.4	73	0.00
35	T	1,1,2,2-Tetrachloroethane	0.763	0.781	-2.4	75	0.00
36	S	Bromofluorobenzene (SS3)	0.676	0.667	1.3	74	0.00
37	T	1,3-Dichlorobenzene	0.935	0.975	-4.3	76	0.00
38	T	1,4-Dichlorobenzene	0.945	0.945	0.0	76	0.00
39	T	1,2-Dichlorobenzene	0.877	0.923	-5.2	76	0.00

(#) = Out of Range

1/17/02

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_01\17\01170703.D Vial: 2
Acq On : 17 Jan 2007 10:11 Operator: AB
Sample : 500pg TO-15/SIM CCV std Inst : MSD7
Misc : S15-01030703/S15-12260604 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	0.569	0.592	-4.0	83	0.00
41	T	Naphthalene	1.563	1.858	-18.9	87	0.00
42	T	Hexachlorobutadiene	0.345	0.404	-17.1	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
01170703.D X7111306.M Wed Jan 17 10:47:19 2007 MSD7 Page 2

5/12/02

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_01\17\01170707.D Vial: 2
Acq On : 17 Jan 2007 12:44 Operator: AB
Sample : 25pg TO-15/SIM CRQL std Inst : MSD7
Misc : S15-01030703/S15-01110705 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	81	0.02
2	T	Dichlorodifluoromethane	3.083	3.537	-14.7	81	0.01
3	T	Chloromethane	0.950	0.154	83.8#	0#	-0.15
4	T	Vinyl Chloride	2.613	2.685	-2.8	74	0.02
5	T	Chloroethane	1.265	1.290	-2.0	75	0.01
6	T	Acetone	2.115	2.374	-12.2	0#	0.01
7	T	1,1-Dichloroethene	1.281	1.286	-0.4	79	0.02
8	T	Methylene Chloride	1.442	4.427	-207.0#	0#	0.02
9	T	Trichlorotrifluoroethane	1.165	1.208	-3.7	78	0.00
10	T	trans-1,2-Dichloroethene	1.392	1.331	4.4	76	0.02
11	T	1,1-Dichloroethane	2.557	2.095	18.1	79	0.01
12	T	Methyl tert-Butyl Ether	3.984	3.586	10.0	75	0.07
13	T	cis-1,2-Dichloroethene	1.416	1.311	7.4	74	0.02
14	T	Chloroform	2.158	3.415	-58.2#	0#	0.01
15	S	1,2-Dichloroethane-d4 (SS1)	2.112	1.992	5.7	74	0.00
16	T	1,2-Dichloroethane	1.915	1.858	3.0	76	0.03
17	T	1,1,1-Trichloroethane	2.107	2.090	0.8	81	0.01
18	T	Benzene	7.183	30.449	-323.9#	0#	0.00
19	T	Carbon Tetrachloride	1.593	1.563	1.9	94	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	76	0.00
21	T	1,2-Dichloropropane	0.300	0.311	-3.7	80	0.02
22	T	Trichloroethene	0.253	0.255	-0.8	76	0.02
23	T	1,4-Dioxane	0.185	0.067	63.8#	24#	0.16
24	T	cis-1,3-Dichloropropene	0.400	0.301	24.8	64	0.05
25	T	1,1,2-Trichloroethane	0.215	0.189	12.1	66	0.03
26	S	Toluene-d8 (SS2)	1.149	1.044	9.1	70	0.00
27	T	Toluene	1.155	1.385	-19.9	77	0.01
28	T	1,2-Dibromoethane	0.245	0.203	17.1	64	0.06
29	T	Tetrachloroethene	0.241	0.241	0.0	78	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	73	0.00
31	T	Chlorobenzene	1.259	1.448	-15.0	84	0.00
32	T	Ethylbenzene	2.388	2.477	-3.7	74	0.02
33	T	m-&-p-Xylene	1.509	1.543	-2.3	73	0.03
34	T	o-Xylene	1.617	1.718	-6.2	76	0.02
35	T	1,1,2,2-Tetrachloroethane	0.763	0.844	-10.6	80	0.03
36	S	Bromofluorobenzene (SS3)	0.676	0.641	5.2	69	0.00
37	T	1,3-Dichlorobenzene	0.935	0.978	-4.6	79	0.02
38	T	1,4-Dichlorobenzene	0.945	0.913	3.4	69	0.02
39	T	1,2-Dichlorobenzene	0.877	0.970	-10.6	82	0.02

(#) = Out of Range

1/17/02

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_01\17\01170707.D Vial: 2
Acq On : 17 Jan 2007 12:44 Operator: AB
Sample : 25pg TO-15/SIM CRQL std Inst : MSD7
Misc : S15-01030703/S15-01110705 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	0.569	0.920	-61.7#	96	0.03
41	T	Naphthalene	1.563	2.550	-63.1#	0#	0.05
42	T	Hexachlorobutadiene	0.345	0.688	-99.4#	0#	0.00

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

1/17/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_01\17\01170711.D Vial: 2
Acq On : 17 Jan 2007 18:18 Operator: AB
Sample : 500pg TO-15/SIM CCV std Inst : MSD7
Misc : S15-01030703/S15-12260604 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	81	0.01
2	T	Dichlorodifluoromethane	3.083	2.947	4.4	78	0.00
3	T	Chloromethane	0.950	0.915	3.7	76	0.00
4	T	Vinyl Chloride	2.613	2.537	2.9	80	0.00
5	T	Chloroethane	1.265	1.183	6.5	77	0.00
6	T	Acetone	2.115	2.394	-13.2	93	0.00
7	T	1,1-Dichloroethene	1.281	1.227	4.2	77	0.00
8	T	Methylene Chloride	1.442	1.411	2.1	76	0.01
9	T	Trichlorotrifluoroethane	1.165	1.080	7.3	75	0.00
10	T	trans-1,2-Dichloroethene	1.392	1.309	6.0	73	0.01
11	T	1,1-Dichloroethane	2.557	2.288	10.5	64	0.00
12	T	Methyl tert-Butyl Ether	3.984	3.986	-0.1	74	0.00
13	T	cis-1,2-Dichloroethene	1.416	1.359	4.0	74	0.00
14	T	Chloroform	2.158	2.088	3.2	73	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	2.112	2.055	2.7	79	0.00
16	T	1,2-Dichloroethane	1.915	1.848	3.5	74	0.00
17	T	1,1,1-Trichloroethane	2.107	2.044	3.0	76	0.00
18	T	Benzene	7.183	6.624	7.8	76	0.00
19	T	Carbon Tetrachloride	1.593	1.595	-0.1	76	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	80	0.00
21	T	1,2-Dichloropropane	0.300	0.284	5.3	73	0.00
22	T	Trichloroethene	0.253	0.225	11.1	74	0.00
23	T	1,4-Dioxane	0.185	0.188	-1.6	86	0.00
24	T	cis-1,3-Dichloropropene	0.400	0.399	0.3	76	0.00
25	T	1,1,2-Trichloroethane	0.215	0.204	5.1	75	0.00
26	S	Toluene-d8 (SS2)	1.149	1.062	7.6	74	0.00
27	T	Toluene	1.155	1.073	7.1	75	0.00
28	T	1,2-Dibromoethane	0.245	0.242	1.2	76	0.00
29	T	Tetrachloroethene	0.241	0.235	2.5	76	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	78	0.00
31	T	Chlorobenzene	1.259	1.249	0.8	77	0.00
32	T	Ethylbenzene	2.388	2.270	4.9	74	0.00
33	T	m-&-p-Xylene	1.509	1.398	7.4	73	0.00
34	T	o-Xylene	1.617	1.578	2.4	75	0.00
35	T	1,1,2,2-Tetrachloroethane	0.763	0.770	-0.9	77	0.00
36	S	Bromofluorobenzene (SS3)	0.676	0.666	1.5	77	0.00
37	T	1,3-Dichlorobenzene	0.935	0.950	-1.6	77	0.00
38	T	1,4-Dichlorobenzene	0.945	0.929	1.7	77	0.00
39	T	1,2-Dichlorobenzene	0.877	0.893	-1.8	77	0.00

(#) = Out of Range

5/18/07

Data File : J:\MS07\DATA\2007_01\17\01170711.D Vial: 2
Acq On : 17 Jan 2007 18:18 Operator: AB
Sample : 500pg TO-15/SIM CCV std Inst : MSD7
Misc : S15-01030703/S15-12260604 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7111306.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Mon Nov 13 17:58:20 2006
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	0.569	0.564	0.9	82	0.00
41	T	Naphthalene	1.563	1.685	-7.8	81	0.00
42	T	Hexachlorobutadiene	0.345	0.350	-1.4	78	0.00

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

4/18/02

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P2700092

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: 01170703.d
Date Analyzed: 01/11/07
Time Analyzed: 10:11

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	27798	4.95	149853	6.27	76968	9.85
	Upper Limit	38917	5.28	209794	6.60	107755	10.18
	Lower Limit	16679	4.62	89912	5.94	46181	9.52
	Client Sample ID						
01	Method Blank	26665	4.95	152557	6.27	78630	9.85
02	Lab Control Sample	28263	4.95	147092	6.27	75294	9.85
03	Duplicate Lab Control Sample	28191	4.95	148484	6.26	75461	9.85
04	WDI-IBM-03-1-6-07	30302	4.95	163689	6.27	85966	9.85
05							
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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: MS Date: 1/26/07

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
24	11/10/06 23:44	11100624.D	blank pos C (200ml)		AB	1	
25	11/11/06 0:12	11100625.D	blank pos C (200ml)		AB	1	
26	11/11/06 0:40	11100626.D	blank pos C (200ml)		AB	1	Benzene ~ 50 ug
1	11/11/06 10:27	11110601.D	blank (100ml)		AB	2	Benzene ~ 50 ug
2	11/11/06 10:54	11110602.D	blank (100ml)		AB	2	
3	11/11/06 11:22	11110603.D	blank (100ml)		AB	2	
4	11/11/06 11:50	11110604.D	blank (100ml)		AB	2	
5	11/11/06 12:18	11110605.D	blank (100ml)		AB	2	
1	11/13/06 9:01	11130601.D	blank (100ml)	pos. C	AB	2	
2	11/13/06 9:35	11130602.D	blank (100ml)	pos. C	AB	3	
3	11/13/06 10:30	11130603.D	IS/SURR check	pos. C S15-11130601	AB	4	
4	11/13/06 11:25	11130604.D	100pg std	S15-11130601/S15-11060603	AB	2	
5	11/13/06 11:53	11130605.D	10pg std	S15-11130601/S15-11060604	AB	2	
6	11/13/06 12:21	11130606.D	2000pg std	S15-11130601/S15-10260603	AB	2	
7	11/13/06 12:49	11130607.D	blank (200ml)		AB	2	
8	11/13/06 13:18	11130608.D	blank (200ml)		AB	2	
9	11/13/06 13:43	11130609.D	25ng BFB		AB	2	PASSED
10	11/13/06 14:10	11130610.D	10pg TO-15/SIM ICAL std	S15-11130601/S15-11060604	AB	2	Tune Good For All CMPD
11	11/13/06 14:38	11130611.D	25pg TO-15/SIM ICAL std	S15-11130601/S15-11060604	AB	3	- See folder
12	11/13/06 15:07	11130612.D	100pg TO-15/SIM ICAL std	S15-11130601/S15-11060603	AB	4	
13	11/13/06 15:35	11130613.D	250pg TO-15/SIM ICAL std	S15-11130601/S15-11060603	AB	5	
14	11/13/06 16:06	11130614.D	500pg TO-15/SIM ICAL std	S15-11130601/S15-11060603	AB	6	
15	11/13/06 16:33	11130615.D	1000pg TO-15/SIM ICAL std	S15-11130601/S15-11060603	AB	7	
16	11/13/06 17:02	11130616.D	2500pg TO-15/SIM ICAL std	S15-11130601/S15-11060603	AB	8	
17	11/13/06 17:30	11130617.D	10000pg TO-15/SIM ICAL std	S15-11130601/S15-10260603	AB	9	
18	11/13/06 17:58	11130618.D	500pg TO-15/SIM ICV std	S15-11130601/S15-10160607	AB	2	Passed.

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
26	1/11/07 23:37	01110726.D	CAS Can QC (1000ml)	AC00536	AB	11	PASSED (S. M - ACETONE)
27	1/12/07 0:11	01110727.D	CAS Can QC (1000ml)	AC00389	AB	12	
28	1/12/07 0:43	01110728.D	CAS Can QC (1000ml)	AC01148	AB	13	
29	1/12/07 1:16	01110729.D	CAS Can QC (1000ml)	AC00229	AB	14	
30	1/12/07 1:48	01110730.D	CAS Can QC (1000ml)	AC00765	AB	15	
31	1/12/07 2:20	01110731.D	CAS Can QC (1000ml)	AC00266	AB	16	PASSED SKM
1	1/12/07 9:10	01120701.D	25ng BFB		AB	1	PASSED
2	1/12/07 9:35	01120702.D	Blank (100ml)		AB	2	
3	1/12/07 10:03	01120703.D	500pg TO-15/SIM CCV std	S15-01030703/S15-12260604	AB	2	PASSED / PASSED [redacted]
4	1/12/07 11:02	01120704.D	TO-15/SIM Method Blank (1000ml)	S15-01030703	AB	2	CAN CLOSED
5	1/12/07 11:39	01120705.D	TO-15/SIM Method Blank (1000ml)	S15-01030703	AB	2	PASSED / PASSED [redacted]
6	1/12/07 12:08	01120706.D	500pg TO-15/SIM LCS	S15-01030703/S15-12120601	AB	4	
7	1/12/07 13:55	01120707.D	P2700030-001 (0.10ml)	[redacted], 3.5)	AB	2	
8	1/12/07 14:22	01120708.D	P2700030-001 Dil (0.050ml)	[redacted] (0.6, 3.5)	AB	2	
9	1/12/07 15:09	01120709.D	P2700049-002 (1000ml)	[redacted] (-1.8, 3.5)	AB	5	
10	1/12/07 15:41	01120710.D	P2700049-003 (1000ml)	[redacted] 1.5, 3.8)	AB	6	
11	1/12/07 16:13	01120711.D	P2700049-003 Dup (1000ml)	[redacted] 1.5, 3.8)	AB	6	PASSED AS DUP
12	1/12/07 16:46	01120712.D	P2700049-004 (1000ml)	[redacted] 1.9, 4.2)	AB	7	
13	1/12/07 17:20	01120713.D	P2700049-004 Dup (1000ml)	[redacted] 1.9, 4.2)	AB	7	PASSED AS DUP
14	1/12/07 17:52	01120714.D	P2700049-006 (1000ml)	[redacted] 1.9, 3.5)	AB	8	
15	1/12/07 18:26	01120715.D	P2700049-001 (1000ml)	[redacted] 7, 3.6)	AB	9	
16	1/12/07 18:53	01120716.D	500pg TO-15/SIM CCV std	S15-01030703/S15-12260604	AB	2	PASSED ; [redacted] CLOSING CCV
1	1/16/07 9:39	01160701.D	25ng BFB		AB	1	PASSED
2	1/16/07 10:02	01160702.D	Blank (100ml)		AB	2	
3	1/16/07 10:30	01160703.D	500pg TO-15/SIM CCV std	S15-01030703/S15-12260604	AB	2	PASSED [redacted]
4	1/16/07 11:16	01160704.D	[redacted] Can QC2 1/15/07 dr (1000ml)	K647	AB	5	PASSED [redacted]
5	1/16/07 11:57	01160705.D	500pg TO-15/SIM LCS	S15-01030703/S15-01110706	AB	2	NOTED
6	1/16/07 12:24	01160706.D	25 pg std check	S15-01030703/S15-01110705	AB	2	
7	1/16/07 12:52	01160707.D	500 pg std check	S15-01030703/S15-01110704	AB	2	
8	1/16/07 13:19	01160708.D	500pg TO-15/SIM LCS	S15-01030703/S15-01110706	AB	4	
9	1/16/07 14:20	01160709.D	500pg LCS std check	S15-01030703/S15-01110706	AB	4	
10	1/16/07 14:57	01160710.D	[redacted] an QC1 1/16/07 dr (1000ml)	K755	AB	5	PASSED [redacted]
1	1/17/07 9:19	01170701.D	25ng BFB		AB	1	PASSED
2	1/17/07 9:42	01170702.D	Blank (100ml)		AB	2	
3	1/17/07 10:11	01170703.D	500pg TO-15/SIM CCV std	S15-01030703/S15-12260604	AB	2	PASSED / PASSED [redacted]
4	1/17/07 11:07	01170704.D	TO-15/SIM Method Blank (1000ml)	S15-01030703	AB	2	
5	1/17/07 11:41	01170705.D	500pg TO-15/SIM LCS	S15-01030703/S15-01110706	AB	2	
6	1/17/07 12:17	01170706.D	500pg TO-15/SIM LCS Dup	S15-01030703/S15-01110706	AB	2	
7	1/17/07 12:44	01170707.D	25pg TO-15/SIM CRQL std	S15-01030703/S15-01110705	AB	2	
8	1/17/07 15:10	01170708.D	P2700092-001 (1000ml)	TRC WDI-IBM-03-1-6-07 (-4.9, 3.7)	AB	5	
9	1/17/07 17:02	01170709.D	P2700123-001 (1000ml)	[redacted] (-1.9, 3.5)	AB	6	
10	1/17/07 17:47	01170710.D	P2700123-001 Dup (1000ml)	[redacted] 1.9, 3.5)	AB	6	PASSED AS DUP
11	1/17/07 18:18	01170711.D	500pg TO-15/SIM CCV std	S15-01030703/S15-12260604	AB	2	PASSED ; TRC CLOSING CCV

SECTION D

PROJECT CORRESPONDENCE

Tracy Young

From: Kate Aguilera [kaguilera@simi.caslab.com]
Sent: Friday, March 09, 2007 6:28 PM
To: tyoung@veridianenv.com; bkay@veridianenv.com
Subject: 25C/3C mid point verificationjj

Hello,

I have five TRC/WDI projects that have mid point standards run. Two of these projects were missing some of the quantitation reports that I needed to verify the percent difference allowance of 10%. I just received the missing quantitation reports and verified the perecent difference allowance. All the mid point standards meet the percent difference criteria of 10%. I have already sent the reports over to have the case narratives revised. I should get them back on Monday. As soon as I receive them I'll scan them into PDF and email.

Regards,
Kate Aguilera
Columbia Analytical Services

Tracy Young

From: Kate Aguilera [kaguilera@simi.caslab.com]
Sent: Monday, March 12, 2007 4:40 PM
To: tyoung@veridianenv.com; wgkay@veridianenv.com
Cc: Gill, Troy (Irvine,CA-US)
Subject: revised case narratives

Attachments: trcp2603530.pdf; trcp2603371.pdf; trcp2603406.pdf; trcp2603461.pdf; trcp2603502.pdf

trcp2603530.pdf	trcp2603371.pdf	trcp2603406.pdf	trcp2603461.pdf	trcp2603502.pdf
(247 KB)	(155 KB)	(158 KB)	(157 KB)	(157 KB)

Hello,

Here are the revised case narratives to include information regarding the mid point standards for 25C and 3C.

Regards,
Kate Aguilera