

**National Air Toxics Trends Stations
(NATTS)
Proficiency Testing Program**

**200502 Data Report
(2nd Quarter)**

Prepared by:

Kenneth J. Caviston

**Alion Science and Technology
Research Triangle Park, North Carolina**

For

**U.S. Environmental Protection Agency
Office of Air Quality Planning and Standards
Research triangle Park, North Carolina 27711**

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Forward

This report is being submitted in compliance with the requirements of Work Assignment 3.01 of Contract 68-D-03-006 and summarizes the data compiled during the Proficiency Tests conducted during the second quarter of 2005. This data should be used by individuals outside of this program only after verifying its applicability.

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Acronym List

EPA	U.S. Environmental Protection Agency
DNPH	Dinitrophenylhydrazine
ERG	Eastern Research Group
NATTS	National Air Toxics Trends Stations
OAQPS	Office of Air Quality Planning and Standards
PE	Performance Evaluation
PT	Proficiency Test
RTP	Research Triangle Park, North Carolina
VOC	Volatile Organic Compound(s)

Executive Summary

The Environmental Protection Agency has established a long-term goal of eliminating unacceptable health risks associated with exposure to the emission of air toxics and to substantially reduce or eliminate the adverse effects of air toxics on the environment.

As an aid in attaining this goal, EPA has established a National Air Toxics Trends Network in the contiguous 48 states. The network consists of 22 sampling stations operated by state and/or local agencies. In order to provide an estimate of the quality of data collected in NATTS, EPA has undertaken a Proficiency Testing Program for those laboratories that perform analyses on the collected samples.

Alion Science and Technology has been given the task of preparing and distributing the PT samples to the NATTS laboratories. Three separate types of PT Sample were prepared, namely Carbonyl, VOC and Metals.

A data system has been developed for use in tracking individual results and to simplify any correlation of PT data with the actual sampling data from the NATTS stations. Each sampling agency has been assigned a unique number the EPA Region in which the site is located and the agency operating it.

Lab Code	NATTS Site	Lab Code	NATTS Site
01-01	Providence, RI	05-03	Mayville, WI
01-02	Chittenden, VT	06-01	Houston & Harrison, TX
01-03	Roxbury, MA	07-01	St. Louis, MO
01-04*	EPA Region 1 Laboratory	08-01	Bountiful, UT
02-01	Rochester and Queens, NY	09-01	San Jose, CA
03-01	Washington, DC	09-02	Phoenix, AZ
04-01	Tampa, FL	10-01	Seattle, WA
04-02	Chesterfield, SC	10-02	La Grande, OR
04-03	Hazard, KY	11-01**	ERG-RTP, NC
04-04	Atlanta, GA		
05-01	Detroit, MI		
05-02	Chicago, IL		

- * **The Region 1 laboratory does not operate a NATTS Site**
- ** **ERG serves as the analytical laboratory for several agencies**

Since the various agencies may utilize a different laboratory to analyze each of the three types of PT samples, a dash and a letter was added to the end of the lab code to identify the analytical laboratory.

- C signifies a Carbonyl Study analytical laboratory
- V identifies a laboratory used to analyze VOC samples
- M is a Metals laboratory.

The carbonyl samples consisted of one sampling cartridge, spiked with a known amount of formaldehyde, acetaldehyde and acetone (replacing methyl isobutyl ketone). Participants in the study were asked to analyze this sample in their “normal” manner and report results as ug/cartridge.

Each participating laboratory supplied Alion with a cleaned VOC canister which was then filled with a mixture of target VOC compounds. It is assumed that any errors in the canister cleaning process will be laboratory specific and will show up as contamination in the overall laboratory results.

The Metals Samples consisted of Teflon filters impregnated with known amounts of the eight metals of interest. Since many of the NATTS laboratories do not use Teflon filters when sampling, participation in the Metals PT study remains low. The high number of laboratories outside the acceptable range for Arsenic and Beryllium are a cause for some concern. This degree of poor performance, not present in the previous PT studies, along with general good performance versus the mean, indicates a possible problem with the assigned values for these two metals.

After analyzing the samples, participating laboratories sent their results to Alion and a PE Report was generated for each lab. The report shows the percent difference between the submitted results and the “True value”. EPA established a “Warning Limit” of +/- 20% for all compounds/elements. The upper limit was set at +/- 25%.

A graph was also generated which shows a laboratory’s performance compared to the other laboratories, as well as to the “True value”. These reports were emailed to personnel at the sampling agency, the analytical laboratory and to the appropriate EPA personnel. The Work Assignment Manager was also given a report showing graphically how the laboratories’ results compared to the Study Mean. Copies of these reports can be found in the appendices.

Originally, the studies were designed to include NIST analysis of two samples from each individual study. However, since appropriate arrangements still could not be made in time, the 200502 studies were conducted without NIST participation.

Carbonyl Study Results

(200502-C)

The second Carbonyl Study was delayed due to back-ordered cartridges. It was originally scheduled for May, but was conducted during July-August, with a closing date of August 18.. The cartridges used during this study were spiked with formaldehyde, acetaldehyde and acetone. One cartridge was shipped via FedEx Air to each of the participating laboratories. Seventeen laboratories returned results. Two of these laboratories did not report any results for acetone.

The following tables show the results submitted by the participating laboratories for the three spiked compounds.

Formaldehyde

Lab Code	Reported	% Difference	Evaluation
01-01-C	3.28	9.3	
01-02-C	3.01	0.3	
01-03-C	2.71	-9.7	
01-04-C	3.26	8.7	
02-01-C	3.30	10.0	
03-01-C	2.89	-3.7	
04-02-C	3.42	14.0	
04-03-C	2.86	-4.7	
04-04-C	3.59	19.7	
05-01-C	3.15	5.0	
05-02-C	3.27	9.0	
05-03-C	3.10	3.3	
06-01-C	3.10	3.3	
09-02-C	3.19	6.3	
10-01-C	3.12	4.0	
10-02-C	2.94	-2.0	
11-01-C	3.16	5.2	

Assigned Value = 3.00 ug/cartridge

Acetaldehyde

Lab Code	Reported	% Difference	Evaluation
01-01-C	2.75	10.0	
01-02-C	2.51	0.4	
01-03-C	2.42	-3.2	
01-04-C	2.78	11.2	
02-01-C	2.90	16.0	
03-01-C	2.60	4.0	
04-02-C	2.82	12.8	
04-03-C	2.56	2.4	
04-04-C	2.50	0.0	
05-01-C	2.62	4.8	
05-02-C	2.30	-8.0	
05-03-C	2.80	12.0	
06-01-C	2.70	8.0	
09-02-C	2.76	10.4	
10-01-C	2.27	-9.2	
10-02-C	2.65	6.0	
11-01-C	2.85	13.9	

Assigned Value = 2.50 ug/cartridge

Acetone

Lab Code	Reported	% Difference	Evaluation
01-01-C	2.11	5.5	
01-02-C	2.02	1.0	
01-03-C	1.96	-2.0	
01-04-C	2.15	7.5	
02-01-C	2.40	20.0	Warning
03-01-C	2.09	4.5	
04-02-C	2.25	12.5	
04-03-C	Not Reported		
04-04-C	1.03	-48.5	> +/- 25%
05-01-C	2.07	3.5	
05-02-C	Not Reported		
05-03-C	2.20	10.0	
06-01-C	1.90	-5.0	
09-02-C	2.17	8.5	
10-01-C	1.97	-1.5	
10-02-C	2.06	3.0	
11-01-C	2.24	12.0	

Assigned Value = 2.00 ug/cartridge

Metals Study Results

(200502-M)

The samples were shipped to Metals participants in May, with a closing date of June 17. Participation continues to be a problem with only twelve out of a possible seventeen laboratories returning results, although that was an increase from ten participating laboratories in the previous study.

The 200502-M samples were prepared by exposing Teflon filters to an air stream containing aerosolized salts of the target compounds. The resulting concentrations were verified by an independent contractor.

The fact that these samples were prepared using Teflon filters again caused some laboratories to modify their procedures and appears to be the major cause of the low participation.

The following seven tables show the results submitted by the twelve laboratories, compared to the “assigned value”. The tables for Arsenic and Beryllium also show their performance versus the study mean. These results are shown in green.

Arsenic

Assigned Value = 5.88 ug/filter Mean = 6.73

Lab Code	Reported	% Difference *	Evaluation
01-04-M	7.63	29.8 13.4	> +/- 25%
02-01-M	7.21	22.6 7.2	Warning
03-01-M	6.36	8.2 -5.4	
04-01-M	6.56	11.6 -2.4	
04-03-M	8.76	49.0 30.2	> +/- 25%
04-04-M	20.00	240.1 197.3	> +/- 25%
05-01-M	6.51	10.7 -3.2	
05-03-M	7.39	25.8 9.9	> +/- 25%
06-01-M	6.65	13.1 -1.1	
08-02-M	3.89	-33.8 -42.2	> +/- 25%
10-02-M	6.91	17.5 2.7	
11-01-M	6.65	13.1 -1.1	

* second column shows % difference from the study mean

Beryllium

Assigned Value = 0.59 ug/filter Mean = 0.75

Lab Code	Reported	% Difference *	Evaluation
01-04-M	1.03	74.6 37.9	> +/- 25%
02-01-M	0.92	55.9 23.2	> +/- 25%
03-01-M	0.85	44.1 13.8	> +/- 25%
04-01-M	0.72	21.3 -4.2	Warning
04-03-M	0.92	56.3 23.4	> +/- 25%
04-04-M	13.2	2137.3 1667.2	> +/- 25%
05-01-M	0.69	16.9 -7.6	
05-03-M	0.86	45.3 14.7	> +/- 25%
06-01-M	0.76	28.1 1.2	> +/- 25%
08-02-M	0.35	-41.4 -53.7	> +/- 25%
10-02-M	0.78	31.5 3.9	> +/- 25%
11-01-M	0.74	25.4 -0.9	> +/- 25%

* second column shows % difference from the study mean

Cadmium

Assigned Value = 7.84 ug/filter

Lab Code	Reported	% Difference	Evaluation
01-04-M	7.91	0.9	
02-01-M	6.61	-15.7	
03-01-M	6.52	16.8	
04-01-M	7.83	-0.2	
04-03-M	8.12	3.6	
04-04-M	11.90	51.8	> +/- 25%
05-01-M	6.98	-11.0	
05-03-M	7.55	-3.8	
06-01-M	6.60	-15.8	
08-02-M	3.57	-54.5	> +/- 25%
10-02-M	8.03	2.4	
11-01-M	7.69	1.9	

Chromium

Assigned Value = 7.78 ug/filter

Lab Code	Reported	% Difference	Evaluation
01-04-M	8.46	8.7	
02-01-M	6.80	-12.5	
03-01-M	7.02	-9.8	
04-01-M	7.17	-7.8	
04-03-M	8.44	8.5	
04-04-M	38.70	397.4	> +/- 25%
05-01-M	7.73	-0.6	
05-03-M	7.57	-2.7	
06-01-M	7.20	-7.5	
08-02-M	3.69	-52.6	> +/- 25%
10-02-M	3.1	3.1	
11-01-M	7.75	-0.4	

Lead

(Assigned Value = 6.63 ug/filter)

Lab Code	Reported	% Difference	Evaluation
01-04-M	6.52	1.7	
02-01-M	6.16	-7.1	
03-01-M	6.52	-8.9	
04-01-M	6.50	-2.0	
04-03-M	6.78	2.3	
04-04-M	11.20	68.9	> +/- 25%
05-01-M	6.42	-3.2	
05-03-M	6.32	-4.7	
06-01-M	5.85	-11.8	
08-02-M	2.88	-56.6	> +/- 25%
10-02-M	6.65	0.3	
11-01-M	6.71	1.2	

Manganese

Assigned Value = 6.80 ug/filter

Lab Code	Reported	% Difference	Evaluation
01-04-M	7.21	6.0	
02-01-M	6.07	-10.7	
03-01-M	6.09	10.4	
04-01-M	6.83	0.4	
04-03-M	7.26	6.8	
04-04-M	10.80	58.8	> +/- 25%
05-01-M	6.17	-9.3	
05-03-M	6.73	-1.0	
06-01-M	6.50	-4.4	
08-02-M	2.97	-56.3	> +/- 25%
10-02-M	6.86	0.9	
11-01-M	6.79	-0.1	

Nickel

Assigned Value = 7.73 ug/filter

Lab Code	Reported	% Difference	Evaluation
01-04-M	8.23	6.5	
02-01-M	7.01	-9.3	
03-01-M	7.01	-9.3	
04-01-M	7.85	1.6	
04-03-M	7.94	2.7	
04-04-M	9.23	19.4	
05-01-M	8.28	7.1	
05-03-M	7.47	-3.3	
06-01-M	7.05	-8.8	
08-02-M	3.36	-56.5	> +/- 25%
10-02-M	7.67	-0.8	
11-01-M	7.64	-1.1	

VOC Study Results (200502-V)

The second VOC study was conducted during July and closed on July 21. Sixteen laboratories supplied Alion with a cleaned Summa canister and returned results for this study. The canisters were humidified by Alion personnel as they were filled and then shipped back to the laboratories via FedEx.

Two Alion canisters were filled with each of the two groups of samples. These canisters were analyzed initially and then after a period of two weeks. The following tables show the results of these analyses as well as the percent difference between them.

Alion Analysis Results (Can 34971)

Compound	Initial Analysis	Second Analysis	% Difference
Vinyl Chloride	2.55	2.55	-0.00
1,3-Butadiene	1.70	1.64	-3.30
Dichloromethane	1.79	1.90	6.24
Trichloromethane	2.31	2.26	-1.76
1,2-Dichloroethane	1.78	1.84	3.51
Benzene	2.14	2.24	4.54
Carbon Tetrachloride	1.49	1.73	16.58
1,2-Dichloropropane	2.14	2.32	8.40
Trichloroethene	1.83	1.91	3.87
Cis-1,3-Dichloropropene	1.94	2.11	8.50
Trans-1,3-Dichloropropene	2.11	2.17	2.63
1,2-Dibromoethane	1.71	1.72	0.59
Tetrachloroethene	2.32	2.30	-0.58
1,1,2,2-Tetrachloroethane	1.84	1.92	4.01

Alion Analysis Results (Can 34974)

Compound	Initial Analysis	Second Analysis	% Difference
Vinyl Chloride	2.29	2.61	14.09
1,3-Butadiene	1.52	1.74	14.07
Dichloromethane	1.71	1.89	10.60
Trichloromethane	2.03	2.25	10.80
1,2-Dichloroethane	1.60	1.91	19.21
Benzene	1.97	2.30	16.49
Carbon Tetrachloride	1.30	1.78	36.62
1,2-Dichloropropane	2.02	2.42	19.82
Trichloroethene	1.70	2.03	19.25
Cis-1,3-Dichloropropene	1.78	2.17	21.92
Trans-1,3-Dichloropropene	1.96	2.25	14.75
1,2-Dibromoethane	1.64	1.75	6.99
Tetrachloroethene	2.15	2.37	10.26
1,1,2,2-Tetrachloroethane	1.69	1.88	11.26

The tables on the following pages contain the results submitted by participating laboratories for each compound. Two laboratories indicated instrument problems and did not return results during the allotted time. However they did analyze the samples after their instruments were repaired and those results are included in this report.

Benzene

Assigned value = 2.23 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	2.37	6.3	
01-02-V	2.43	9.0	
01-04-V	2.30	3.1	
02-01-V	2.45	9.9	
03-01-V	2.18	-2.2	
04-01-V	2.25	0.9	
04-02-V	1.97	-11.7	
04-03-V	2.32	4.0	
04-04-V	2.19	-1.8	
05-01-V	2.32	4.0	
05-03-V	2.65	18.8	
06-01-V	2.34	4.9	
09-02-V	2.42	8.5	
10-01-V	2.32	4.0	
10-02-V	1.90	-14.8	
11-01-V	2.90	30.0	> +/- 25%

1,3 Butadiene

Assigned value = 1.84 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.76	-4.3	
01-02-V	1.81	-1.6	
01-04-V	2.00	8.7	
02-01-V	2.12	15.2	
03-01-V	1.84	0.0	
04-01-V	1.87	1.6	
04-02-V	1.69	-8.2	
04-03-V	1.55	-15.8	
04-04-V	1.84	0.0	
05-01-V	1.67	-9.2	
05-03-V	1.80	-2.2	
06-01-V	0.20	-89.1	> +/- 25%
09-02-V	1.59	-13.5	
10-01-V	2.71	47.3	> +/- 25%
10-02-V	0.45	-75.5	> +/- 25%
11-01-V	2.13	15.8	

Carbon Tetrachloride

Assigned value = 1.79 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.82	1.7	
01-02-V	2.05	14.5	
01-04-V	2.00	11.7	
02-01-V	2.04	14.0	
03-01-V	1.85	3.4	
04-01-V	1.87	4.5	
04-02-V	1.67	-6.7	
04-03-V	1.88	5.0	
04-04-V	1.89	5.6	
05-01-V	2.21	23.5	Warning
05-03-V	2.04	13.8	
06-01-V	2.23	24.6	Warning
09-02-V	1.98	10.4	
10-01-V	2.20	22.9	Warning
10-02-V	1.62	-9.5	
11-01-V	2.12	18.4	

Chloroform

Assigned value = 2.23 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	2.11	-5.4	
01-02-V	2.22	-0.4	
01-04-V	2.20	-1.3	
02-01-V	2.42	8.5	
03-01-V	2.13	-4.5	
04-01-V	2.23	0.0	
04-02-V	1.90	-14.8	
04-03-V	2.28	2.2	
04-04-V	2.26	1.3	
05-01-V	2.42	8.5	
05-03-V	2.31	3.5	
06-01-V	1.99	-10.8	
09-02-V	2.31	3.5	
10-01-V	2.24	0.4	
10-02-V	1.86	16.6	
11-01-V	2.57	15.2	

1,2 dibromoethane

Assigned value = 1.78 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.63	-8.4	
01-02-V	1.70	-4.5	
01-04-V	1.90	6.7	
02-01-V	1.98	11.2	
03-01-V	1.73	-2.8	
04-01-V	1.81	1.7	
04-02-V	1.81	1.7	
04-03-V	1.75	-1.7	
04-04-V	1.80	1.1	
05-01-V	1.90	6.7	
05-03-V	Not Reported		
06-01-V	1.27	-28.7	> +/- 25%
09-02-V	1.95	9.6	
10-01-V	2.08	16.9	
10-02-V	1.73	-2.8	
11-01-V	2.22	24.7	Warning

1,2 dichloropropane

Assigned value = 2.23 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	2.06	-7.6	
01-02-V	2.25	0.9	
01-04-V	2.20	-1.3	
02-01-V	2.63	17.9	
03-01-V	2.20	-1.3	
04-01-V	2.22	-0.4	
04-02-V	2.41	8.1	
04-03-V	2.36	5.8	
04-04-V	2.15	-3.6	
05-01-V	2.27	1.8	
05-03-V	2.39	7.0	
06-01-V	1.73	-22.4	Warning
09-02-V	2.27	1.8	
10-01-V	2.34	4.9	
10-02-V	1.97	-11.7	
11-01-V	2.82	26.5	> +/- 25%

1,2 dichloroethane

Assigned value = 1.90 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.68	-11.6	
01-02-V	1.89	-0.5	
01-04-V	2.00	5.3	
02-01-V	1.94	2.1	
03-01-V	1.80	-5.3	
04-01-V	1.89	-0.5	
04-02-V	1.57	-17.4	
04-03-V	1.97	3.7	
04-04-V	1.94	2.1	
05-01-V	2.13	12.1	
05-03-V	1.97	3.9	
06-01-V	1.76	-7.4	
09-02-V	1.88	-1.2	
10-01-V	2.13	12.1	
10-02-V	1.61	-15.3	
11-01-V	2.15	13.2	

Dichloromethane

Assigned value =1.93 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.82	-5.7	
01-02-V	1.85	-4.1	
01-04-V	1.80	-6.7	
02-01-V	2.19	13.5	
03-01-V	1.66	-14.0	
04-01-V	1.91	-1.0	
04-02-V	1.74	-9.8	
04-03-V	1.88	-2.6	
04-04-V	1.83	-5.2	
05-01-V	1.45	-24.9	Warning
05-03-V	2.06	6.5	
06-01-V	1.74	-9.8	
09-02-V	1.92	-0.3	
10-01-V	2.38	23.3	Warning
10-02-V	1.42	-26.4	> +/- 25%
11-01-V	2.14	10.9	

1,1,2,2 tetrachloroethane

Assigned value =1.84 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.56	-15.2	
01-02-V	1.73	-6.0	
01-04-V	1.90	3.3	
02-01-V	2.10	14.1	
03-01-V	1.52	-17.4	
04-01-V	1.77	-3.8	
04-02-V	1.42	-22.8	Warning
04-03-V	1.88	2.2	
04-04-V	1.87	1.6	
05-01-V	1.71	-7.1	
05-03-V	2.16	17.3	
06-01-V	1.64	-10.9	
09-02-V	1.84	-0.2	
10-01-V	2.56	39.1	> +/- 25%
10-02-V	1.97	7.1	
11-01-V	2.05	11.4	

Tetrachloroethylene (PERC)

Assigned value =2.31 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.95	-15.6	
01-02-V	2.19	-5.2	
01-04-V	2.40	3.9	
02-01-V	2.42	4.8	
03-01-V	2.10	-9.1	
04-01-V	2.13	-7.8	
04-02-V	2.47	6.9	
04-03-V	2.08	-10.0	
04-04-V	2.16	-6.5	
05-01-V	2.32	0.4	
05-03-V	2.44	5.7	
06-01-V	1.45	-37.2	> +/- 25%
09-02-V	2.23	-3.4	
10-01-V	1.92	-16.9	
10-02-V	2.18	-5.6	
11-01-V	2.78	20.3	Warning

Trichloroethylene

Assigned value =2.31 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.95	-15.6	
01-02-V	2.19	-5.2	
01-04-V	2.40	3.9	
02-01-V	2.42	4.8	
03-01-V	2.10	-9.1	
04-01-V	2.13	-7.8	
04-02-V	2.47	6.9	
04-03-V	2.08	-10.0	
04-04-V	2.16	-6.5	
05-01-V	2.32	0.4	
05-03-V	2.44	5.7	
06-01-V	1.45	-37.2	> +/- 25%
09-02-V	2.23	-3.4	
10-01-V	1.92	-16.9	
10-02-V	2.18	-5.6	
11-01-V	2.78	20.3	Warning

Vinyl Chloride

Assigned value =2.67 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	2.06	-22.8	Warning
01-02-V	2.35	-12.0	
01-04-V	2.60	-2.6	
02-01-V	2.79	4.5	
03-01-V	2.17	-18.7	
04-01-V	2.31	-13.5	
04-02-V	1.18	-55.8	> +/- 25%
04-03-V	2.36	-11.6	
04-04-V	2.42	-9.4	
05-01-V	2.51	-6.0	
05-03-V	2.36	-11.8	
06-01-V	1.98	-25.8	> +/- 25%
09-02-V	3.01	12.8	
10-01-V	2.20	-17.6	
10-02-V	1.72	-35.6	> +/- 25%
11-01-V	2.78	4.1	

Cis-1,3-Dichloropropene

Assigned value =2.12 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.96	-7.5	
01-02-V	2.04	-3.8	
01-04-V	2.30	8.5	
02-01-V	2.29	8.0	
03-01-V	2.01	-5.2	
04-01-V	2.13	0.5	
04-02-V	2.15	1.4	
04-03-V	2.31	9.0	
04-04-V	1.85	-12.7	
05-01-V	2.12	0.0	
05-03-V	2.14	1.1	
06-01-V	1.23	-42.0	> +/- 25%
09-02-V	2.07	-2.3	
10-01-V	2.54	19.8	
10-02-V	1.71	-19.3	
11-01-V	2.49	17.5	

Trans-1,3-Dichloropropene

Assigned value =2.27 ppbv

Lab Code	Reported	% Difference	Evaluation
01-01-V	1.87	-17.6	
01-02-V	2.29	0.9	
01-04-V	2.50	10.1	
02-01-V	2.63	15.9	
03-01-V	2.12	-6.6	
04-01-V	2.22	-2.2	
04-02-V	2.02	-11.0	
04-03-V	1.63	-28.2	> +/- 25%
04-04-V	2.00	-11.9	
05-01-V	2.38	4.8	
05-03-V	2.66	17.0	
06-01-V	1.16	-48.9	> +/- 25%
09-02-V	2.28	0.2	
10-01-V	3.03	33.5	> +/- 25%
10-02-V	1.52	-33.0	> +/- 25%
11-01-V	2.69	18.5	

Appendix A

200502-C

Individual Results and Summary Graphs

PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 01-01-C

This evaluation report is being submitted for:

Providence, RI
 Attention: Jeannine Dougherty
 RI Dept. of Health Lab.
 50 Orms Street
 Providence, RI, 02904

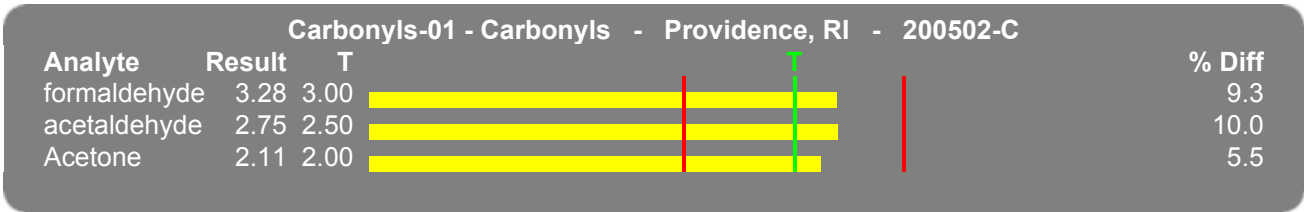
401-222-5550

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Providence, RI - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-%	Range	Accept Limits +/-%	Range	Evaluation
101 formaldehyde	HPLC	L.Zbarces	ug/crtge	3.28	3.00	9.3	20	2.40 to 3.60	25	2.25 to 3.75	
102 acetaldehyde	HPLC	L.Zbarces	ug/crtge	2.75	2.50	10.0	20	2.00 to 3.00	25	1.88 to 3.13	
103 Acetone	HPLC	L.Zbarces	ug/crtg	2.11	2.00	5.5	20	1.60 to 2.40	25	1.50 to 2.50	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 01-02-C

This evaluation report is being submitted for:

Chittenden, VT
Attention: Chris Russo
Vermont DEC Environmental Lab
103 South Main Street
Waterbury, VT, 05671-0409

802-241-1381

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Chittenden, VT - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
101 formaldehyde	TO11-A	W.Z.	ug/crtge	3.01	3.00	0.3	20 2.40 to 3.60	25 2.25 to 3.75	
102 acetaldehyde	TO11-A	W.Z.	ug/crtge	2.51	2.50	0.4	20 2.00 to 3.00	25 1.88 to 3.13	
103 Acetone	TO11-A	W.Z.	ug/crtg	2.02	2.00	1.0	20 1.60 to 2.40	25 1.50 to 2.50	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported

Carbonyls-01 - Carbonyls - Chittenden, VT - 200502-C

Analyte	Result	T	% Diff
formaldehyde	3.01	3.00	0.3
acetaldehyde	2.51	2.50	0.4
Acetone	2.02	2.00	1.0

PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 01-03-C

This evaluation report is being submitted for:

Roxbury, MA
 Attention: Thomas McGrath
 DEP, Air Quality, WES
 37 Shattuck Street
 Lawrence, MA, 01843

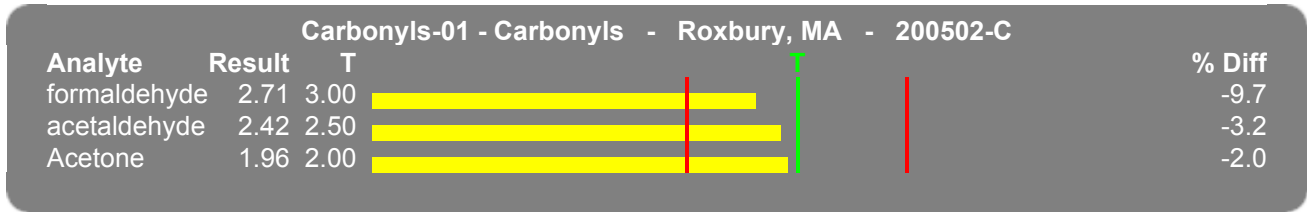
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Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Roxbury, MA - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO-11	C.Milne	ug/crtge	2.71	3.00	-9.7	20 2.40 to 3.60	25 2.25 to 3.75	
102 acetaldehyde	TO-11	C.Milne	ug/crtge	2.42	2.50	-3.2	20 2.00 to 3.00	25 1.88 to 3.13	
103 Acetone	TO-11	C.Milne	ug/crtg	1.96	2.00	-2.0	20 1.60 to 2.40	25 1.50 to 2.50	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 01-04-C

This evaluation report is being submitted for:

Region 1

Attention: Agnes VanLangenhove

US EPA Region 1 Lab

11 Technology Drive

North Chelmsford,, MA, 01863

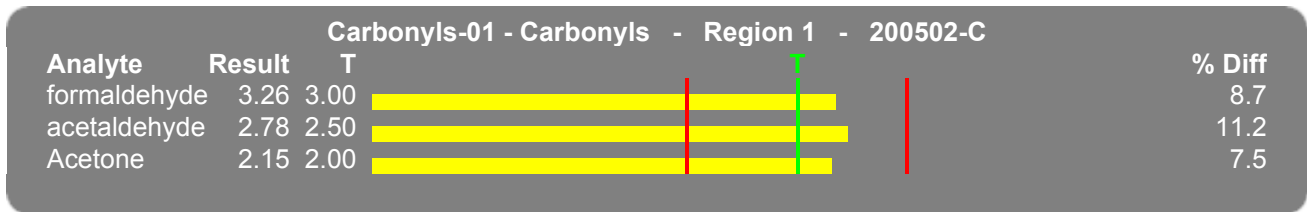
617-918-8338

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Region 1 - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-%	Warn Limits Range	Accept Limits +/-%	Accept Limits Range	Evaluation
101 formaldehyde	TO-11	PRC	ug/crtge	3.26	3.00	8.7	20	2.40 to 3.60	25	2.25 to 3.75	
102 acetaldehyde	TO-11	PRC	ug/crtge	2.78	2.50	11.2	20	2.00 to 3.00	25	1.88 to 3.13	
103 Acetone	TO-11	PRC	ug/crtg	2.15	2.00	7.5	20	1.60 to 2.40	25	1.50 to 2.50	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ Not Evaluated
 ■ Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 02-01-C

This evaluation report is being submitted for:

Rochester & Queens, NY
 Attention: Gary Boynton
 1 University Place
 Room D112
 Rensselaer, NY, 12144

518-525-2733

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Rochester & Queens, NY - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-%	Warn Limits Range	Accept Limits +/-%	Accept Limits Range	Evaluation
101 formaldehyde	TO-11A	PBM	ug/crtge	3.3	3.00	10.0	20	2.40 to 3.60	25	2.25 to 3.75	
102 acetaldehyde	TO-11A	PBM	ug/crtge	2.9	2.50	16.0	20	2.00 to 3.00	25	1.88 to 3.13	
103 Acetone	TO-11A	PBM	ug/crtg	2.4	2.00	20.0	20	1.60 to 2.40	25	1.50 to 2.50	WARNING

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ Not Evaluated
 ■ Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 03-01-C

This evaluation report is being submitted for:

Washington, DC
Attention: Robert Day
Air Management Services Laboratory
1501 Lycoming Street
Philadelphia, PA, 19124

202-535-2986

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Washington, DC - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO-11A	W.A.	ug/crtge	2.89	3.00	-3.7	20 2.40 to 3.60	25 2.25 to 3.75	
102 acetaldehyde	TO-11A	W.A.	ug/crtge	2.6	2.50	4.0	20 2.00 to 3.00	25 1.88 to 3.13	
103 Acetone	TO-11A	W.A.	ug/crtg	2.09	2.00	4.5	20 1.60 to 2.40	25 1.50 to 2.50	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported

Carbonyls-01 - Carbonyls - Washington, DC - 200502-C

Analyte	Result	T	% Diff
formaldehyde	2.89	3.00	-3.7
acetaldehyde	2.60	2.50	4.0
Acetone	2.09	2.00	4.5

PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 04-02-C

This evaluation report is being submitted for:

Chesterfield, SC
 Attention: Scott Reynolds
 SC Dept of HEC, Div. of AQ Analysis
 8231 Parklane Road
 Columbia, SC, 29223

803-896-0902

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Chesterfield, SC - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-%	Warn Limits Range	Accept Limits +/-%	Accept Limits Range	Evaluation
101 formaldehyde unk.	MN		ug/crtge	3.42	3.00	14.0	20	2.40 to 3.60	25	2.25 to 3.75	
102 acetaldehyde unk.	MN		ug/crtge	2.82	2.50	12.8	20	2.00 to 3.00	25	1.88 to 3.13	
103 Acetone	unk.	MN	ug/crtg	2.25	2.00	12.5	20	1.60 to 2.40	25	1.50 to 2.50	

 Accepted
 Warning
 Outside
 Outlier
 NE Not Evaluated
 NR Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 04-03-C

This evaluation report is being submitted for:

Hazard, KY

Attention: Charles Snodgrass

Div of Environmental Services

100 Sower Blvd. Suite 104

Frankfort, KY, 40601-8272

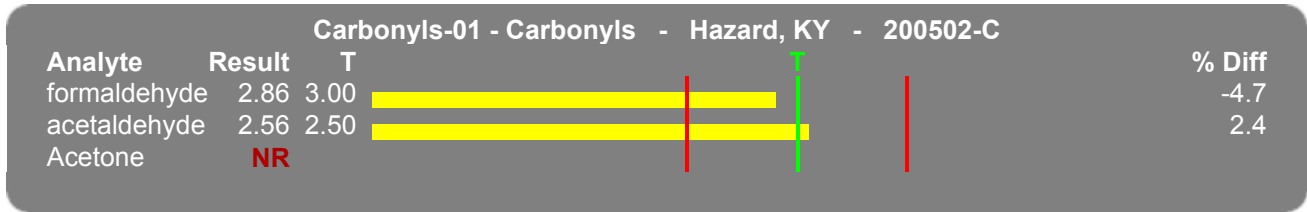
502-573-3382

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Hazard, KY - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-%	Warn Limits Range	Accept Limits +/-%	Accept Limits Range	Evaluation
101 formaldehyde TO-11A		JoEllen T.	ug/crtge	2.86	3.00	4.7	20	2.40 to 3.60	25	2.25 to 3.75	
102 acetaldehyde TO-11A		JoEllen T.	ug/crtge	2.56	2.50	2.4	20	2.00 to 3.00	25	1.88 to 3.13	
103 Acetone				NR	2.00			1.60 to 2.40		1.50 to 2.50	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ Not Evaluated
 ■ Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 04-04-C

This evaluation report is being submitted for:

Atlanta, GA
 Attention: Susan Zimmer-Dauphinee
 GA DNR EPD Laboratory
 455 14th Street
 Atlanta, GA, 30318-7900

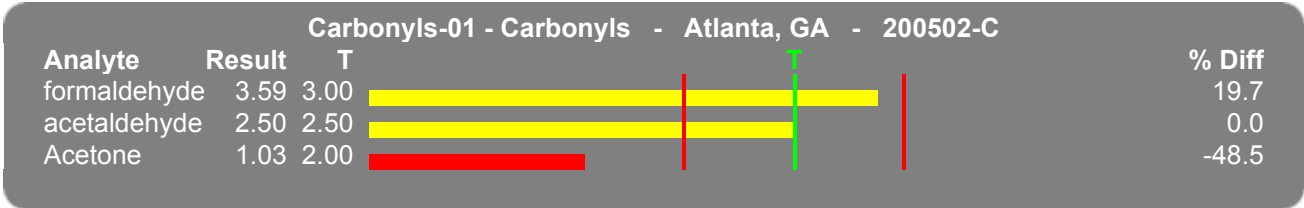
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Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Atlanta, GA - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn +/-%	Limits Range	Accept Limits +/-%	Limits Range	Evaluation
101 formaldehyde	TO-11 A	T.Anderson	ug/crtge	3.59	3.00	19.7	20	2.40 to 3.60	25	2.25 to 3.75	
102 acetaldehyde	TO-11 A	T.Anderson	ug/crtge	2.5	2.50	0.0	20	2.00 to 3.00	25	1.88 to 3.13	
103 Acetone	TO-11 A	T.Anderson	ug/crtg	1.03	2.00	48.5	20	1.60 to 2.40	25	1.50 to 2.50	< 25%

Accepted
 Warning
 Outside
 Outlier
 NE Not Evaluated
 NR Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 05-01-C

This evaluation report is being submitted for:

Detroit, MI
 Attention: Mary Ann Heindorf
 DEQ Lab
 3350 N MLK Bldg.44 3rd Floor
 Lansing, MI, 48906

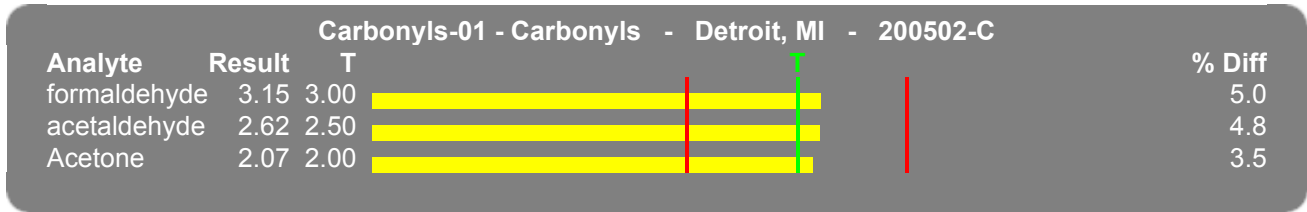
517-373-2151

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Detroit, MI - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
101 formaldehyde	TO-11	JB	ug/crtge	3.15	3.00	5.0	20 2.40 to 3.60	25 2.25 to 3.75	
102 acetaldehyde	TO-11	JB	ug/crtge	2.62	2.50	4.8	20 2.00 to 3.00	25 1.88 to 3.13	
103 Acetone	TO-11	JB	ug/crtg	2.07	2.00	3.5	20 1.60 to 2.40	25 1.50 to 2.50	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 05-02-C

This evaluation report is being submitted for:

Chicago

Attention: Mel Schuchardt

IEPA Air Monitoring

1021 N Grande Ave. East

Springfield, IL, 53707

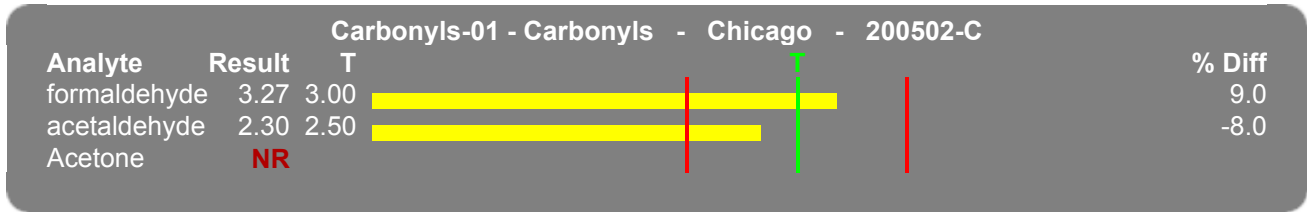
(217) 782-9281

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Chicago - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO-11A	ner	ug/crtge	3.27	3.00	9.0	20 2.40 to 3.60	25 2.25 to 3.75	
102 acetaldehyde	TO-11A	ner	ug/crtge	2.3	2.50	-8.0	20 2.00 to 3.00	25 1.88 to 3.13	
103 Acetone				NR	2.00		1.60 to 2.40	1.50 to 2.50	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 05-03-C

This evaluation report is being submitted for:

Madison, WI
 Attention: Mark Allen
 Wisconsin DNR
 101 S Webster St
 Madison, WI, 53707

608-266-8049

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Madison, WI - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-%	Warn Limits Range	Accept Limits +/-%	Accept Limits Range	Evaluation
101 formaldehyde	202	J.G.	ug/crtge	3.1	3.00	3.3	20	2.40 to 3.60	25	2.25 to 3.75	
102 acetaldehyde	202	J.G.	ug/crtge	2.8	2.50	12.0	20	2.00 to 3.00	25	1.88 to 3.13	
103 Acetone	202	J.G.	ug/crtg	2.2	2.00	10.0	20	1.60 to 2.40	25	1.50 to 2.50	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ Not Evaluated
 ■ Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 06-01-C

This evaluation report is being submitted for:

Houston & Harrison TX
 Attention: David Brymer
 Texas CEQ
 1200 Park 35 Circle
 Austin, TX, 78753

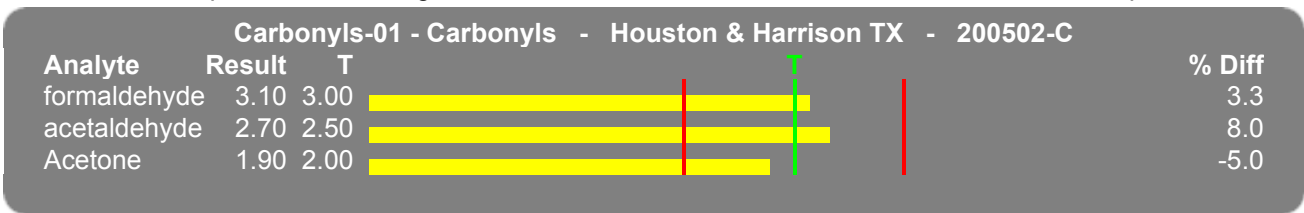
512-239-1725

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Houston & Harrison TX - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits		Accept Limits		Evaluation
							+/-%	Range	+/-%	Range	
101 formaldehyde	Modified TO-11	A.M.	ug/crtge	3.1	3.00	3.3	20	2.40 to 3.60	25	2.25 to 3.75	
102 acetaldehyde	Modified TO-11	A.M.	ug/crtge	2.7	2.50	8.0	20	2.00 to 3.00	25	1.88 to 3.13	
103 Acetone	Modified TO-11	A.M.	ug/crtg	1.9	2.00	5.0	20	1.60 to 2.40	25	1.50 to 2.50	

 Accepted
 Warning
 Outside
 Outlier
 NE Not Evaluated
 NR Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 09-02-C

This evaluation report is being submitted for:

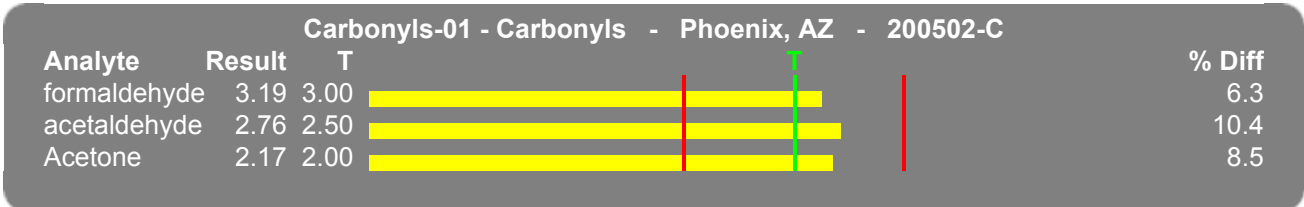
Phoenix, AZ
 Attention: Michael Sunbloom
 San Diego Air Pollution Control District
 9186 Chesapeake Drive
 San Diego, CA, 92123

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Phoenix, AZ - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn +/--%	Limits Range	Accept +/--%	Limits Range	Evaluation
101 formaldehyde	202	DNS	ug/crtge	3.19	3.00	6.3	20	2.40 to 3.60	25	2.25 to 3.75	
102 acetaldehyde	202	DNS	ug/crtge	2.76	2.50	10.4	20	2.00 to 3.00	25	1.88 to 3.13	
103 Acetone	202	DNS	ug/crtg	2.17	2.00	8.5	20	1.60 to 2.40	25	1.50 to 2.50	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 10-01-C

This evaluation report is being submitted for:

Seattle, Wa

Attention: Hal Westberg

CEE Department Sloan Hall, Room 101

Washington State University

Pullman, WA, 99164-2910

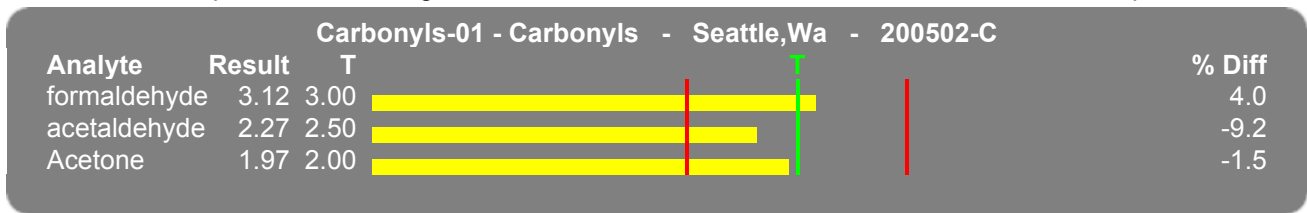
509-335-1529

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Seattle, Wa - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits		Accept Limits		Range Evaluation
							+/-%	Range	+/-%	Range	
101 formaldehyde	TO-11A	Bamesberge	ug/crtge	3.12	3.00	4.0	20	2.40 to 3.60	25	2.25 to 3.75	
102 acetaldehyde	TO-11A	Bamesberge	ug/crtge	2.27	2.50	9.2	20	2.00 to 3.00	25	1.88 to 3.13	
103 Acetone	TO-11A	Bamesberge	ug/crtg	1.97	2.00	1.5	20	1.60 to 2.40	25	1.50 to 2.50	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 10-02-C

This evaluation report is being submitted for:

LaGrande, Or
Attention: Gregg Lande
Oregon DEQ Lab
1712 SW 11th Ave.
Portland, OR, 97201

503-229-6411

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - LaGrande, Or - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO 11-A	RR	ug/crtge	2.94	3.00	-2.0	20 2.40 to 3.60	25 2.25 to 3.75	
102 acetaldehyde	TO 11-A	RR	ug/crtge	2.65	2.50	6.0	20 2.00 to 3.00	25 1.88 to 3.13	
103 Acetone	TO 11-A	RR	ug/crtg	2.06	2.00	3.0	20 1.60 to 2.40	25 1.50 to 2.50	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported

Carbonyls-01 - Carbonyls - LaGrande, Or - 200502-C

Analyte	Result	T	% Diff
formaldehyde	2.94	3.00	-2.0
acetaldehyde	2.65	2.50	6.0
Acetone	2.06	2.00	3.0

PTNATTS PE Report

8/24/2005



Study: 200502-C

Close Date: 08/17/2005

Lab Code: 11-01-C

This evaluation report is being submitted for:

Tampa, St Louis, Grand Junction, Bountiful

Attention: Julie Swift

ERG

601 Keystone Park Drive, Suite 700

Durham, NC, 27713

919-468-7924

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Carbonyls-01 - Carbonyls - Tampa, St Louis, Grand Junction, Bountiful - 200502-C

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
101 formaldehyde	TO-11A	L.VanEnwyc	ug/crtge	3.157	3.00	5.2	20 2.40 to 3.60	25 2.25 to 3.75	
102 acetaldehyde	TO-11A	L.VanEnwyc	ug/crtge	2.847	2.50	13.9	20 2.00 to 3.00	25 1.88 to 3.13	
103 Acetone	TO-11A	L.VanEnwyc	ug/crtg	2.24	2.00	12.0	20 1.60 to 2.40	25 1.50 to 2.50	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ Not Evaluated
 ■ Not Reported

Carbonyls-01 - Carbonyls - Tampa, St Louis, Grand Junction, Bountiful - 200502-C

Analyte	Result	T	% Diff
formaldehyde	3.16	3.00	5.2
acetaldehyde	2.85	2.50	13.9
Acetone	2.24	2.00	12.0

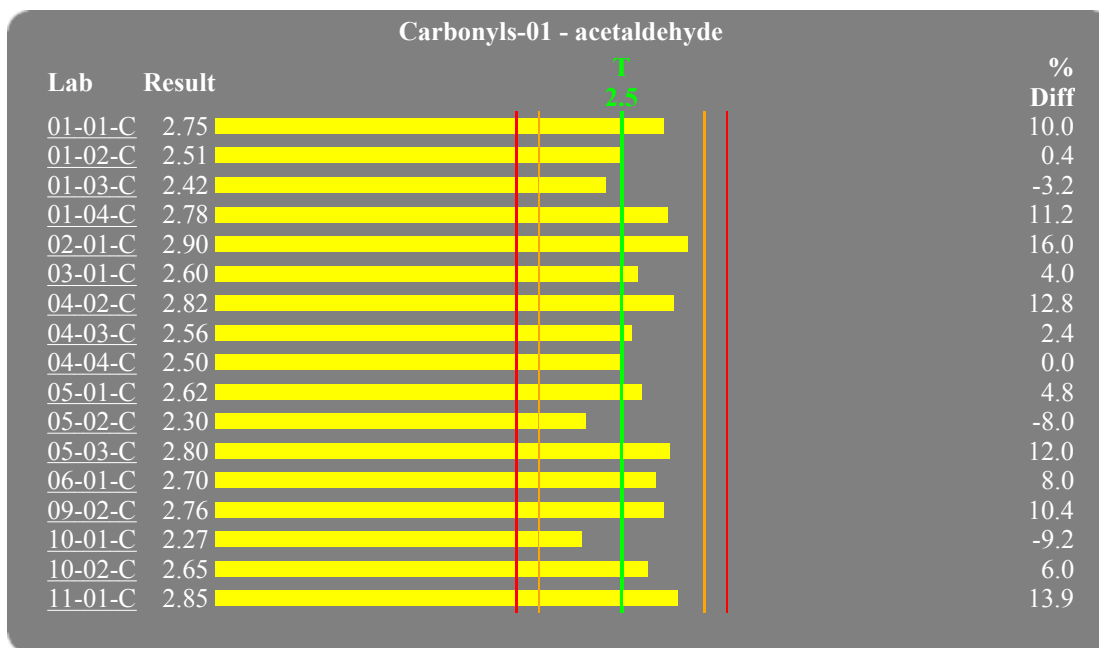
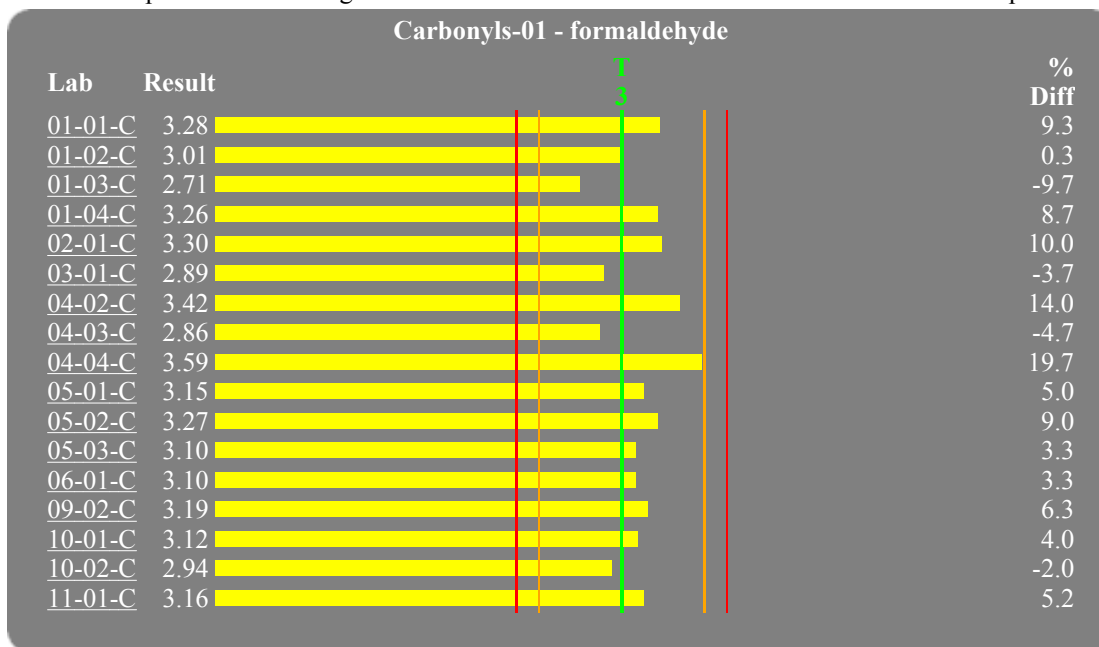
Analyte Results for a Specific Study

08/24/2005



Study Number: 200502-C

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



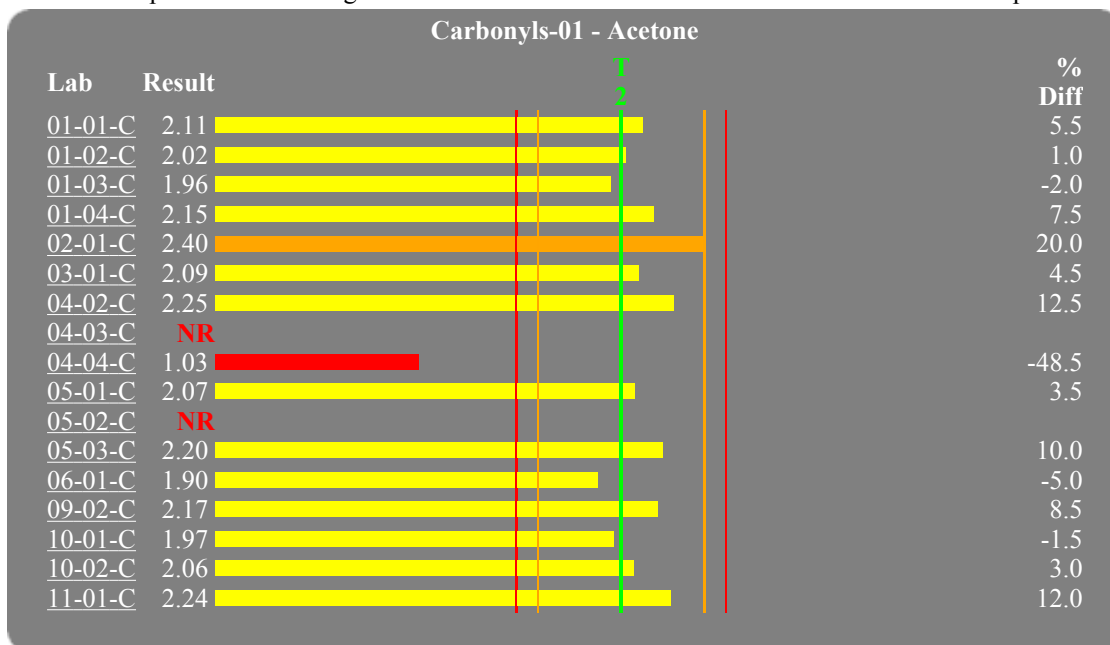
Analyte Results for a Specific Study

08/24/2005



Study Number: 200502-C

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



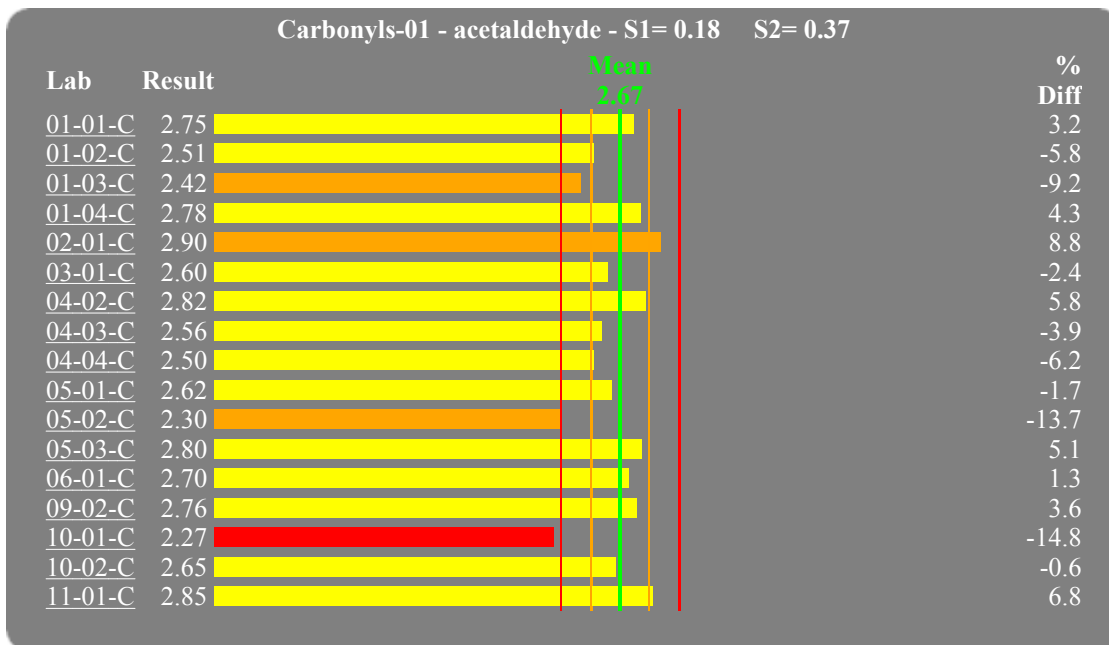
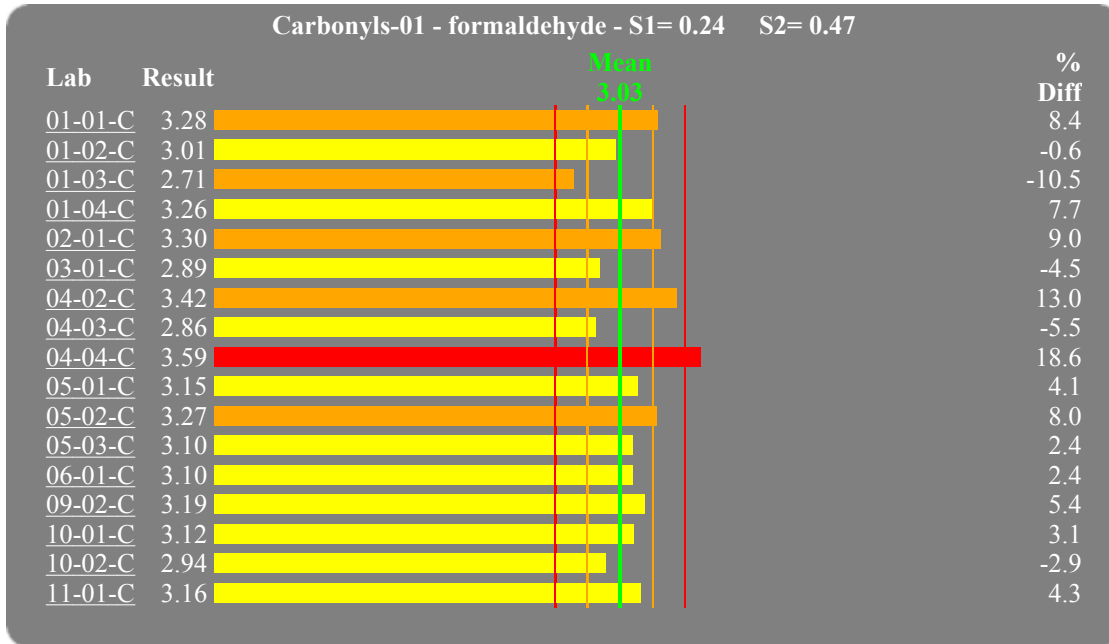
Analyte Results Versus the Study Mean

08/24/2005



Study Number: 200502-C

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



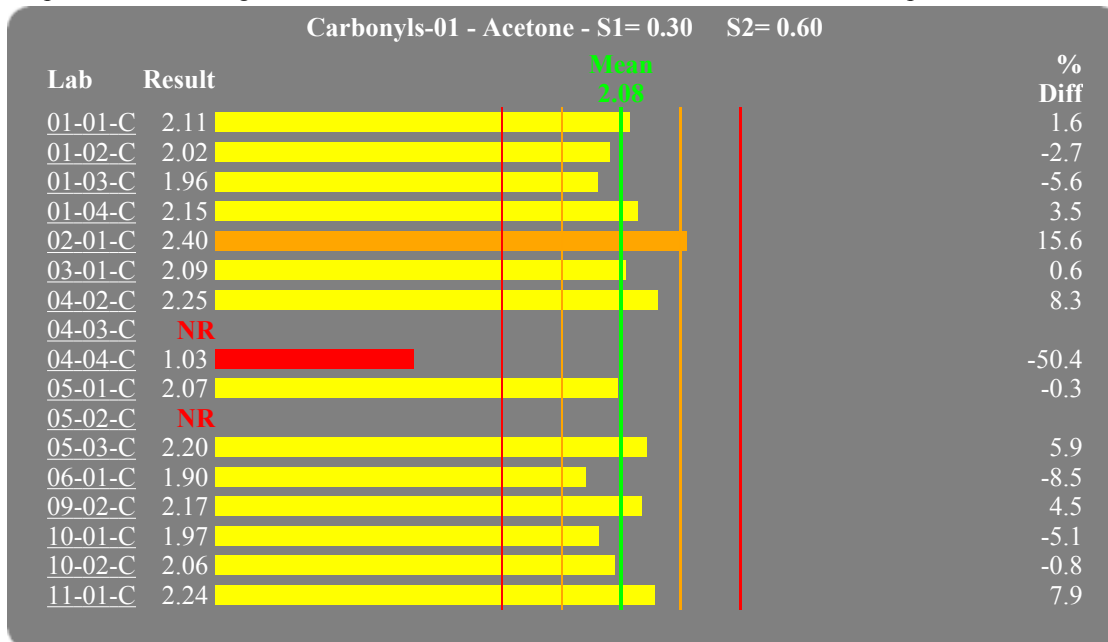
Analyte Results Versus the Study Mean

08/24/2005



Study Number: 200502-C

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



Appendix B

200502-M

Individual Results and Summary Graphs

PTNATTS PE Report

10/11/2005



Study: 200502-M

Close Date: 06/17/2005

Lab Code: 01-04-M

This evaluation report is being submitted for:

Region 1

Attention: Agnes VanLangenhove

US EPA Region 1 Lab

11 Technology Drive

North Chelmsford, MA, 01863

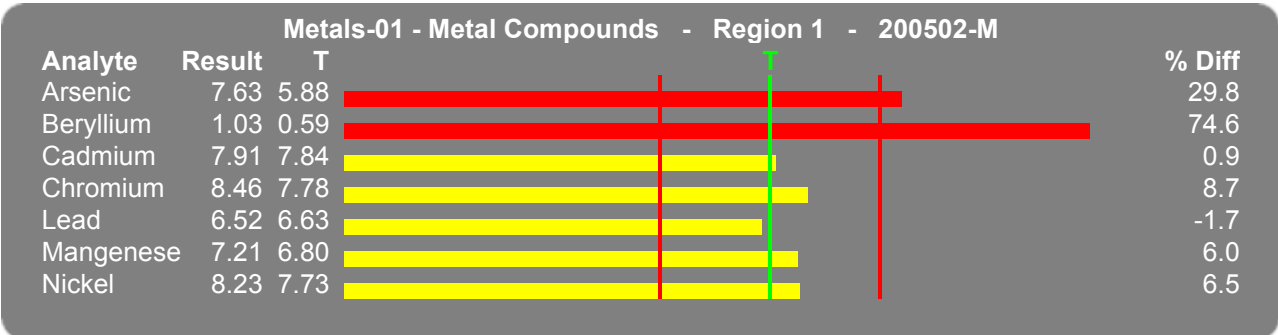
617-918-8338

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Region 1 - 200502-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
201 Arsenic	Compen. IO-3.1,	M.Dowling	ug/filter	7.63	5.88	29.8	4.70 to 7.06	4.41 to 7.35	> 25%
202 Beryllium	Compen. IO-3.1,	M.Dowling	ug/filter	1.03	0.590	74.6	0.472 to 0.708	0.443 to 0.737	> 25%
203 Cadmium	Compen. IO-3.1,	M.Dowling	ug/filter	7.91	7.84	0.9	6.27 to 9.41	5.88 to 9.80	
204 Chromium	Compen. IO-3.1,	M.Dowling	ug/filter	8.46	7.78	8.7	6.22 to 9.34	5.84 to 9.73	
205 Lead	Compen. IO-3.1,	M.Dowling	ug/filter	6.52	6.63	-1.7	5.30 to 7.96	4.97 to 8.29	
206 Manganese	Compen. IO-3.1,	M.Dowling	ug/filter	7.21	6.80	6.0	5.44 to 8.16	5.10 to 8.50	
208 Nickel	Compen. IO-3.1,	M.Dowling	ug/filter	8.23	7.73	6.5	6.18 to 9.28	5.80 to 9.66	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-M

Close Date: 06/17/2005

Lab Code: 02-01-M

This evaluation report is being submitted for:

Rochester and Queens

Attention: Gary Boynton

, ,

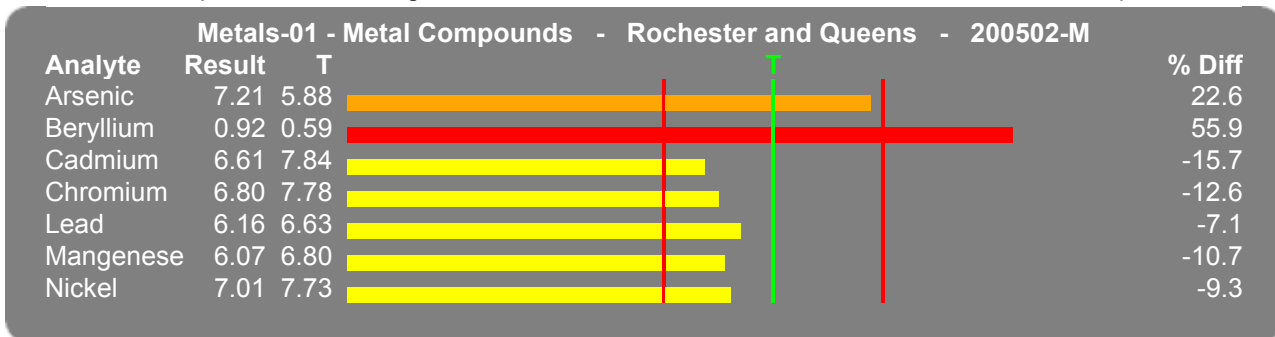
518-525-2733

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Rochester and Queens - 200502-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-%	Warn Limits Range	Accept Limits +/-%	Accept Limits Range	Evaluation
201 Arsenic	EPA 200.8	CDJ	ug/filter	7.21	5.88	22.6	20	4.70 to 7.06	25	4.41 to 7.35	WARNING
202 Beryllium	EPA 200.8	CDJ	ug/filter	0.92	0.590	55.9	20	0.472 to 0.708	25	0.443 to 0.737	> 25%
203 Cadmium	EPA 200.8	CDJ	ug/filter	6.61	7.84	15.7	20	6.27 to 9.41	25	5.88 to 9.80	
204 Chromium	EPA 200.8	CDJ	ug/filter	6.8	7.78	12.6	20	6.22 to 9.34	25	5.84 to 9.73	
205 Lead	EPA 200.8	CDJ	ug/filter	6.16	6.63	-7.1	20	5.30 to 7.96	25	4.97 to 8.29	
206 Manganese	EPA 200.8	CDJ	ug/filter	6.07	6.80	10.7	20	5.44 to 8.16	25	5.10 to 8.50	
208 Nickel	EPA 200.8	CDJ	ug/filter	7.01	7.73	-9.3	20	6.18 to 9.28	25	5.80 to 9.66	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

10/11/2005



Study: 200502-M Close Date: 06/17/2005 Lab Code: 03-01-M

This evaluation report is being submitted for:

Washington, DC
 Attention: Robert Day
 DEP Division of Air Quality
 4900 Brenda Lane, Bldg. 14
 Charleston, WV, 25312

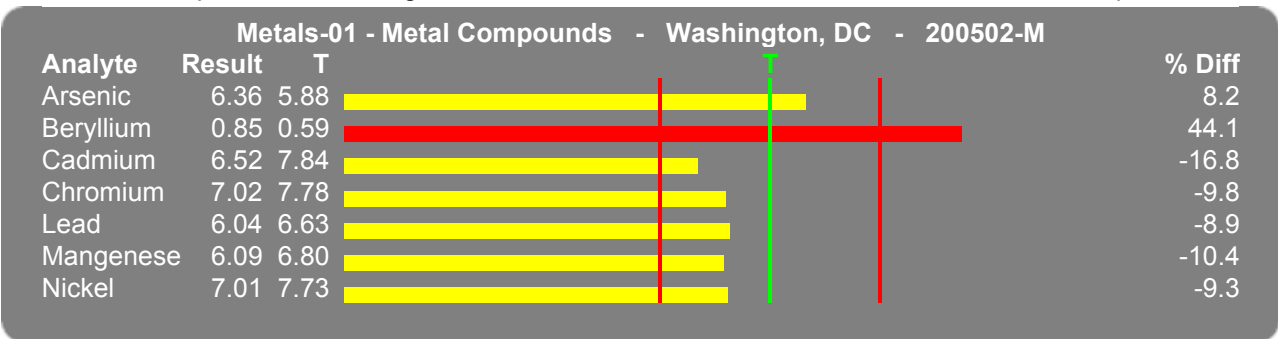
202-535-2986

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Washington, DC - 200502-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	+/-%	Warn Limits Range	Accept Limits Range	Evaluation
201 Arsenic	IO- 3.5	JT	ug/filter	6.36	5.88	8.2	20	4.70 to 7.06	4.41 to 7.35	
202 Beryllium	IO- 3.5	JT	ug/filter	0.85	0.590	44.1	20	0.472 to 0.708	0.443 to 0.737	> 25%
203 Cadmium	IO- 3.5	JT	ug/filter	6.52	7.84	16.8	20	6.27 to 9.41	5.88 to 9.80	
204 Chromium	IO- 3.5	JT	ug/filter	7.02	7.78	-9.8	20	6.22 to 9.34	5.84 to 9.73	
205 Lead	IO- 3.5	JT	ug/filter	6.04	6.63	-8.9	20	5.30 to 7.96	4.97 to 8.29	
206 Manganese	IO- 3.5	JT	ug/filter	6.09	6.80	10.4	20	5.44 to 8.16	5.10 to 8.50	
208 Nickel	IO- 3.5	JT	ug/filter	7.01	7.73	-9.3	20	6.18 to 9.28	5.80 to 9.66	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-M

Close Date: 06/17/2005

Lab Code: 04-01-M

This evaluation report is being submitted for:

Tampa, FL
 Attention: Tom Tamanini
 Env. Protection Commission of Hillsborough
 1410 North 21 Street
 Tampa, FL, 33605

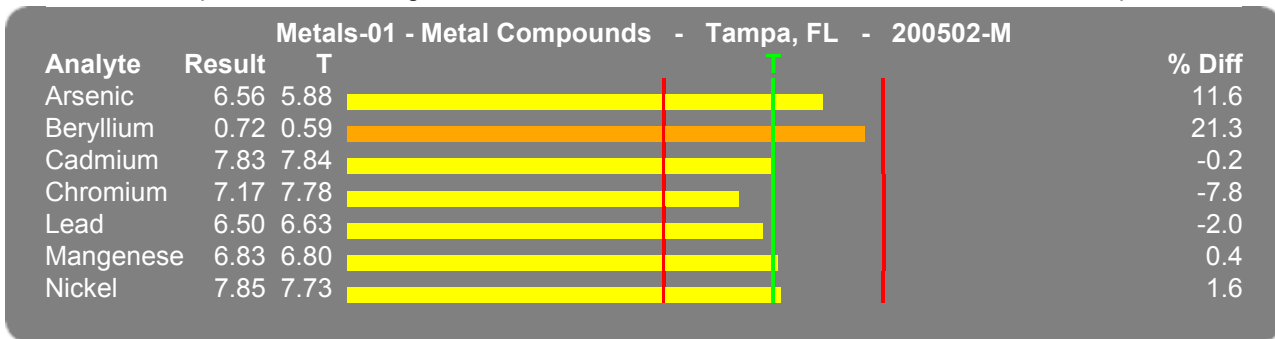
813-272-5530

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Tampa, FL - 200502-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
201 Arsenic	200.7	SP	ug/filter	6.5621	5.88	11.6	20 4.70 to 7.06	25 4.41 to 7.35	
202 Beryllium	200.7	SP	ug/filter	0.7156	0.590	21.3	20 0.472 to 0.708	25 0.443 to 0.737	WARNING
203 Cadmium	200.7	SP	ug/filter	7.8254	7.84	-0.2	20 6.27 to 9.41	25 5.88 to 9.80	
204 Chromium	200.7	SP	ug/filter	7.1733	7.78	-7.8	20 6.22 to 9.34	25 5.84 to 9.73	
205 Lead	200.7	SP	ug/filter	6.4954	6.63	-2.0	20 5.30 to 7.96	25 4.97 to 8.29	
206 Manganese	200.7	SP	ug/filter	6.8267	6.80	0.4	20 5.44 to 8.16	25 5.10 to 8.50	
208 Nickel	200.7	SP	ug/filter	7.8523	7.73	1.6	20 6.18 to 9.28	25 5.80 to 9.66	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-M

Close Date: 06/17/2005

Lab Code: 04-03-M

This evaluation report is being submitted for:

Hazard, KY

Attention: Larry Garrison

Div of Environmental Services

100 Sower Blvd. Suite 104

Frankfort, KY, 40601-8272

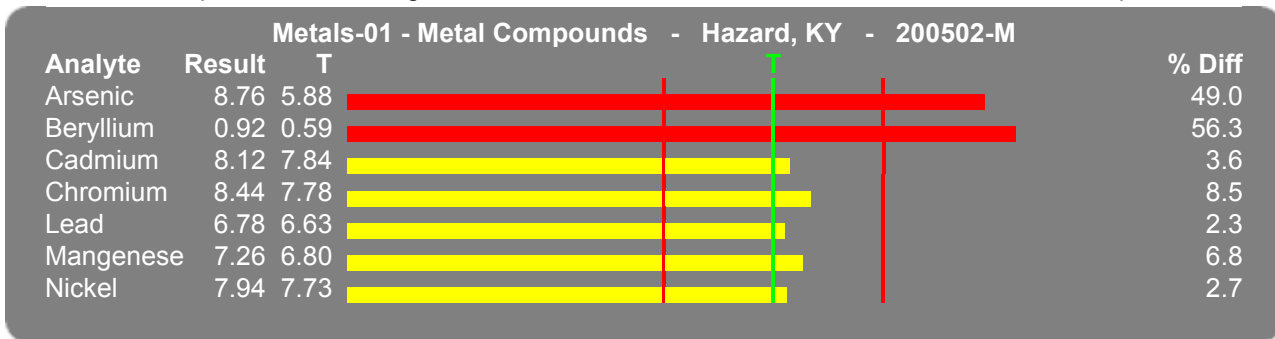
502-573-3382

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Hazard, KY - 200502-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn +/-%	Warn Limits Range	Accept +/-%	Accept Limits Range	Evaluation
201 Arsenic	IO-3.5	S.Masters	ug/filter	8.76	5.88	49.0	20	4.70 to 7.06	25	4.41 to 7.35	> 25%
202 Beryllium	IO-3.5	S.Masters	ug/filter	0.922	0.590	56.3	20	0.472 to 0.708	25	0.443 to 0.737	> 25%
203 Cadmium	IO-3.5	S.Masters	ug/filter	8.12	7.84	3.6	20	6.27 to 9.41	25	5.88 to 9.80	
204 Chromium	IO-3.5	S.Masters	ug/filter	8.44	7.78	8.5	20	6.22 to 9.34	25	5.84 to 9.73	
205 Lead	IO-3.5	S.Masters	ug/filter	6.78	6.63	2.3	20	5.30 to 7.96	25	4.97 to 8.29	
206 Manganese	IO-3.5	S.Masters	ug/filter	7.26	6.80	6.8	20	5.44 to 8.16	25	5.10 to 8.50	
208 Nickel	IO-3.5	S.Masters	ug/filter	7.94	7.73	2.7	20	6.18 to 9.28	25	5.80 to 9.66	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-M

Close Date: 06/17/2005

Lab Code: 04-04-M

This evaluation report is being submitted for:

Atlanta, GA
 Attention: Susan Zimmer-Dauphinee
 GA DNR EPD Laboratory
 455 14th Street
 Atlanta, GA, 30318

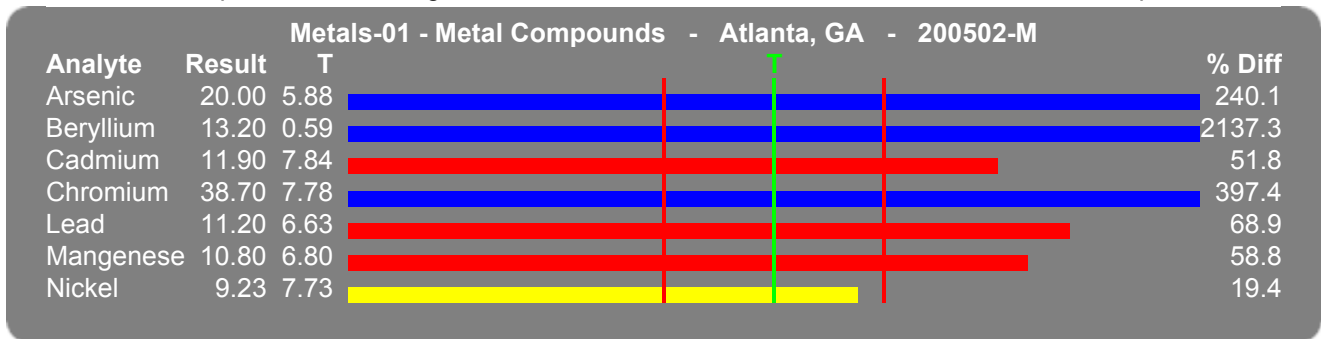
404-363-7004

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Atlanta, GA - 200502-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn +/-%	Warn Limits Range	Accept +/-%	Accept Limits Range	Evaluation
201 Arsenic	IO-3.5	Unk.	ug/filter	20.0	5.88	240.1	20	4.70 to 7.06	25	4.41 to 7.35	> 25%
202 Beryllium	IO-3.5	Unk.	ug/filter	13.2	0.590	2137.3	20	0.472 to 0.708	25	0.443 to 0.737	> 25%
203 Cadmium	IO-3.5	Unk.	ug/filter	11.9	7.84	51.8	20	6.27 to 9.41	25	5.88 to 9.80	> 25%
204 Chromium	IO-3.5	Unk.	ug/filter	38.7	7.78	397.4	20	6.22 to 9.34	25	5.84 to 9.73	> 25%
205 Lead	IO-3.5	Unk.	ug/filter	11.2	6.63	68.9	20	5.30 to 7.96	25	4.97 to 8.29	> 25%
206 Manganese	IO-3.5	Unk.	ug/filter	10.8	6.80	58.8	20	5.44 to 8.16	25	5.10 to 8.50	> 25%
208 Nickel	IO-3.5	Unk.	ug/filter	9.23	7.73	19.4	20	6.18 to 9.28	25	5.80 to 9.66	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-M

Close Date: 06/17/2005

Lab Code: 05-01-M

This evaluation report is being submitted for:

Detroit, MI
 Attention: Mary Ann Heindorf
 DEQ Lab
 3350 N MLK Bldg.44 3rd Floor
 Lansing, MI, 48906

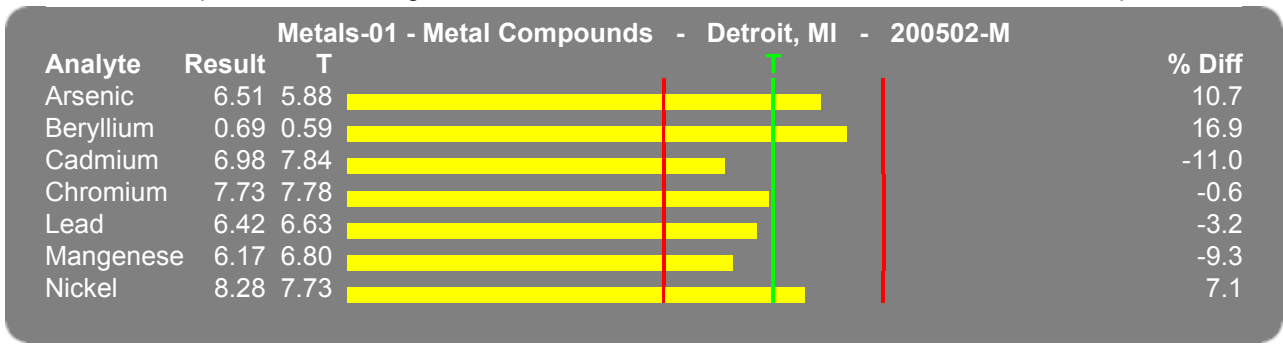
517-373-2151

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Detroit, MI - 200502-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
201 Arsenic	ICPMS	KS	ug/filter	6.51	5.88	10.7	20 4.70 to 7.06	25 4.41 to 7.35	
202 Beryllium	ICPMS	MJ	ug/filter	0.69	0.590	16.9	20 0.472 to 0.708	25 0.443 to 0.737	
203 Cadmium	ICPMS	KS	ug/filter	6.98	7.84	11.0	20 6.27 to 9.41	25 5.88 to 9.80	
204 Chromium	ICPMS	KS	ug/filter	7.73	7.78	-0.6	20 6.22 to 9.34	25 5.84 to 9.73	
205 Lead	ICPMS	KS	ug/filter	6.42	6.63	-3.2	20 5.30 to 7.96	25 4.97 to 8.29	
206 Manganese	ICPMS	MJ	ug/filter	6.17	6.80	-9.3	20 5.44 to 8.16	25 5.10 to 8.50	
208 Nickel	ICPMS	KS	ug/filter	8.28	7.73	7.1	20 6.18 to 9.28	25 5.80 to 9.66	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-M

Close Date: 06/17/2005

Lab Code: 05-03-M

This evaluation report is being submitted for:

Mayville, WI
 Attention: Mark Allen
 Wisconsin DNR
 101 S Wester St
 Madison,, WI, 53707

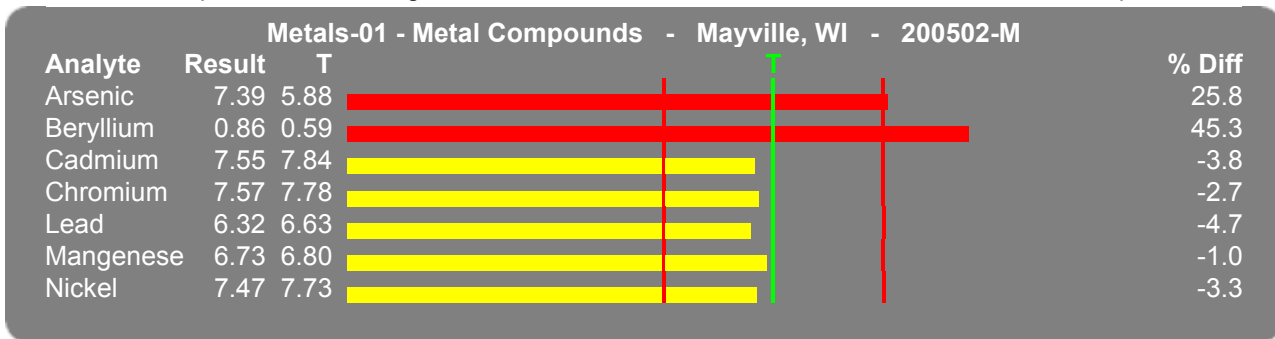
608-266-8049

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Mayville, WI - 200502-M

Analyte	Method	Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--%	Range	Accept Limits +/--%	Range	Evaluation
201 Arsenic	109	JS/CW	ug/filter		7.395	5.88	25.8	20	4.70 to 7.06	25	4.41 to 7.35	> 25%
202 Beryllium	109	JS/CW	ug/filter		0.857	0.590	45.3	20	0.472 to 0.708	25	0.443 to 0.737	> 25%
203 Cadmium	109	JS/CW	ug/filter		7.545	7.84	-3.8	20	6.27 to 9.41	25	5.88 to 9.80	
204 Chromium	109	JS/CW	ug/filter		7.569	7.78	-2.7	20	6.22 to 9.34	25	5.84 to 9.73	
205 Lead	109	JS/CW	ug/filter		6.316	6.63	-4.7	20	5.30 to 7.96	25	4.97 to 8.29	
206 Manganese	109	JS/CW	ug/filter		6.734	6.80	-1.0	20	5.44 to 8.16	25	5.10 to 8.50	
208 Nickel	109	JS/CW	ug/filter		7.472	7.73	-3.3	20	6.18 to 9.28	25	5.80 to 9.66	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-M

Close Date: 06/17/2005

Lab Code: 06-01-M

This evaluation report is being submitted for:

Houston & Harrison TX
 Attention: David Manis
 Texas CEQ
 1200 Park 35 Circle Bldg. B
 Austin, TX, 78753

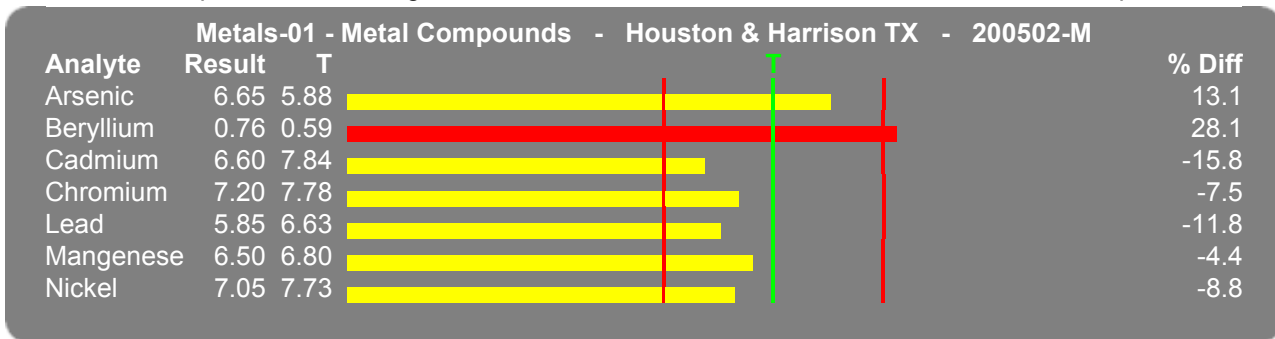
512-239-5853

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Houston & Harrison TX - 200502-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn +/-%	Limits Range	Accept +/-%	Limits Range	Evaluation
201 Arsenic	IO 3.5	ST & GAB	ug/filter	6.65	5.88	13.1	20	4.70 to 7.06	25	4.41 to 7.35	
202 Beryllium	IO 3.5	ST & GAB	ug/filter	0.756	0.590	28.1	20	0.472 to 0.708	25	0.443 to 0.737	> 25%
203 Cadmium	IO 3.5	ST & GAB	ug/filter	6.6	7.84	15.8	20	6.27 to 9.41	25	5.88 to 9.80	
204 Chromium	IO 3.5	ST & GAB	ug/filter	7.2	7.78	-7.5	20	6.22 to 9.34	25	5.84 to 9.73	
205 Lead	IO 3.5	ST & GAB	ug/filter	5.85	6.63	11.8	20	5.30 to 7.96	25	4.97 to 8.29	
206 Manganese	IO 3.5	ST & GAB	ug/filter	6.5	6.80	-4.4	20	5.44 to 8.16	25	5.10 to 8.50	
208 Nickel	IO 3.5	ST & GAB	ug/filter	7.05	7.73	-8.8	20	6.18 to 9.28	25	5.80 to 9.66	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-M

Close Date: 06/17/2005

Lab Code: 08-02-M

This evaluation report is being submitted for:

Grand Junction
 Attention: Gordon Pierce
 Co DPHE APCD-TS-B1
 4300 Cherry Creek Drive South
 Denver, CO, 80246

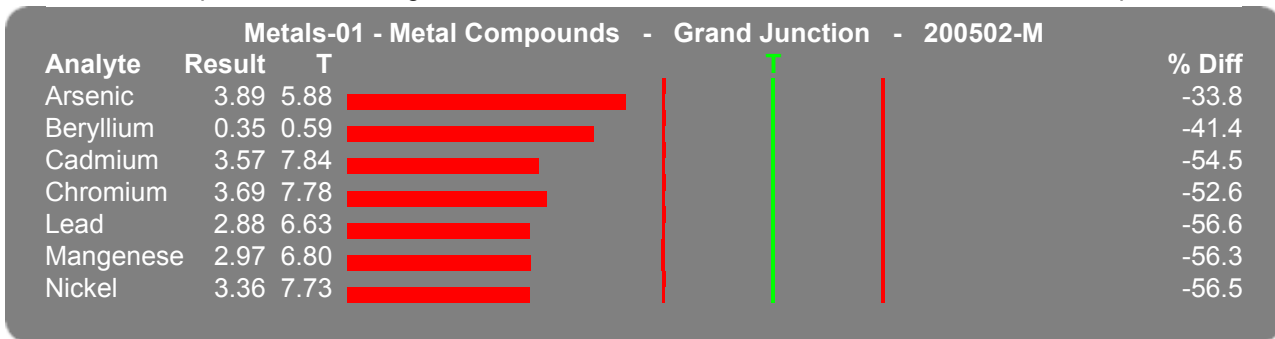
303-692-3238

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Grand Junction - 200502-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
201 Arsenic	IO-3.5	MS	ug/filter	3.89	5.88	33.8	20 4.70 to 7.06	25 4.41 to 7.35	< 25%
202 Beryllium	IO-3.5	MS	ug/filter	0.346	0.590	41.4	20 0.472 to 0.708	25 0.443 to 0.737	< 25%
203 Cadmium	IO-3.5	MS	ug/filter	3.57	7.84	54.5	20 6.27 to 9.41	25 5.88 to 9.80	< 25%
204 Chromium	IO-3.5	MS	ug/filter	3.69	7.78	52.6	20 6.22 to 9.34	25 5.84 to 9.73	< 25%
205 Lead	IO-3.5	MS	ug/filter	2.88	6.63	56.6	20 5.30 to 7.96	25 4.97 to 8.29	< 25%
206 Manganese	IO-3.5	MS	ug/filter	2.97	6.80	56.3	20 5.44 to 8.16	25 5.10 to 8.50	< 25%
208 Nickel	IO-3.5	MS	ug/filter	3.36	7.73	56.5	20 6.18 to 9.28	25 5.80 to 9.66	< 25%

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-M

Close Date: 06/17/2005

Lab Code: 10-02-M

This evaluation report is being submitted for:

Oregon DEQ
 Attention: Gregg Lande
 Oregon DEQ Lab
 1712 SW 11th Ave
 Portland, OR, 97201

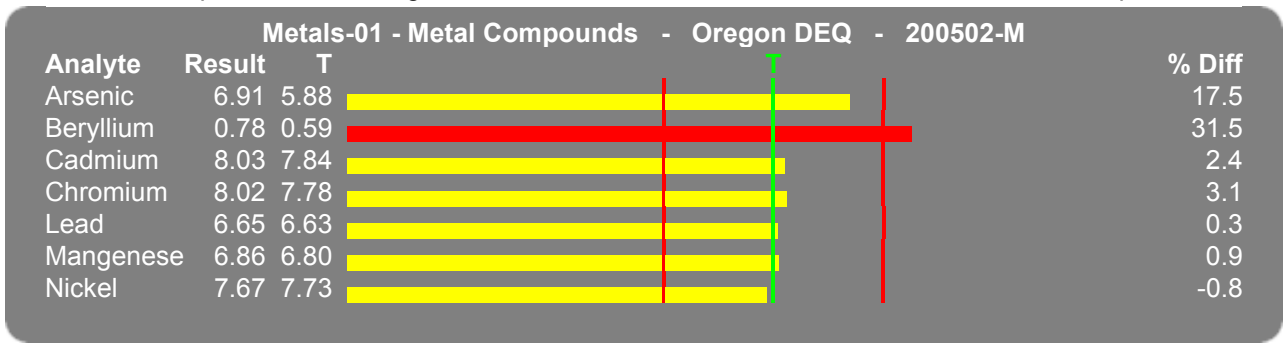
503-229-6411

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Oregon DEQ - 200502-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
201 Arsenic	Modified lo-3.5	GY/KY	ug/filter	6.91	5.88	17.5	20 4.70 to 7.06	25 4.41 to 7.35	
202 Beryllium	Modified lo-3.5	GY/KY	ug/filter	0.776	0.590	31.5	20 0.472 to 0.708	25 0.443 to 0.737	> 25%
203 Cadmium	Modified lo-3.5	GY/KY	ug/filter	8.03	7.84	2.4	20 6.27 to 9.41	25 5.88 to 9.80	
204 Chromium	Modified lo-3.5	GY/KY	ug/filter	8.02	7.78	3.1	20 6.22 to 9.34	25 5.84 to 9.73	
205 Lead	Modified lo-3.5	GY/KY	ug/filter	6.65	6.63	0.3	20 5.30 to 7.96	25 4.97 to 8.29	
206 Manganese	Modified lo-3.5	GY/KY	ug/filter	6.86	6.80	0.9	20 5.44 to 8.16	25 5.10 to 8.50	
208 Nickel	Modified lo-3.5	GY/KY	ug/filter	7.67	7.73	-0.8	20 6.18 to 9.28	25 5.80 to 9.66	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-M

Close Date: 06/17/2005

Lab Code: 11-01-M

This evaluation report is being submitted for:

Roxbury, MA Providence, RI, St Louis, MO Bountiful

Attention: Julie Swift

ERG

900 Perimeter Park

Morrisville, NC, 27560

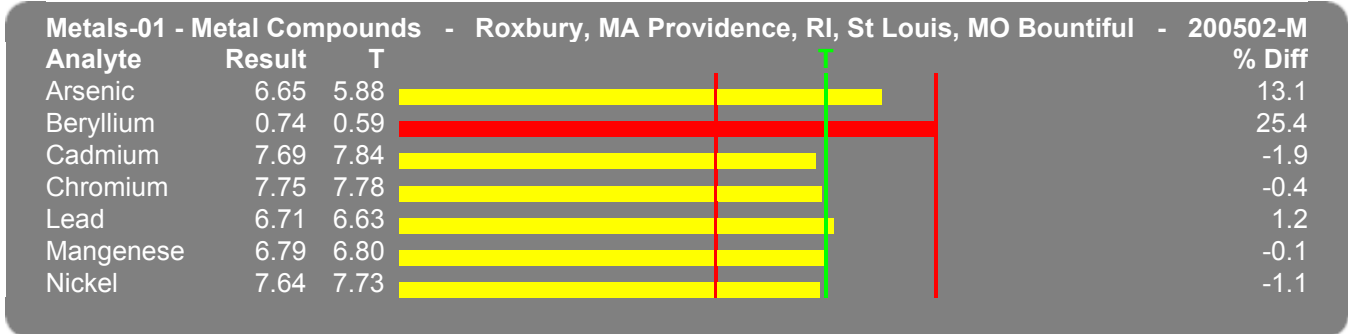
919-468-7924

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

Metals-01 - Metal Compounds - Roxbury, MA Providence, RI, St Louis, MO Bountiful - 200502-M

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
201 Arsenic	IO-3.5	M.F.	ug/filter	6.649	5.88	13.1	20 4.70 to 7.06	25 4.41 to 7.35	
202 Beryllium	IO-3.5	M.F.	ug/filter	0.74	0.590	25.4	20 0.472 to 0.708	25 0.443 to 0.737	> 25%
203 Cadmium	IO-3.5	M.F.	ug/filter	7.691	7.84	-1.9	20 6.27 to 9.41	25 5.88 to 9.80	
204 Chromium	IO-3.5	M.F.	ug/filter	7.747	7.78	-0.4	20 6.22 to 9.34	25 5.84 to 9.73	
205 Lead	IO-3.5	M.F.	ug/filter	6.712	6.63	1.2	20 5.30 to 7.96	25 4.97 to 8.29	
206 Manganese	IO-3.5	M.F.	ug/filter	6.791	6.80	-0.1	20 5.44 to 8.16	25 5.10 to 8.50	
208 Nickel	IO-3.5	M.F.	ug/filter	7.643	7.73	-1.1	20 6.18 to 9.28	25 5.80 to 9.66	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



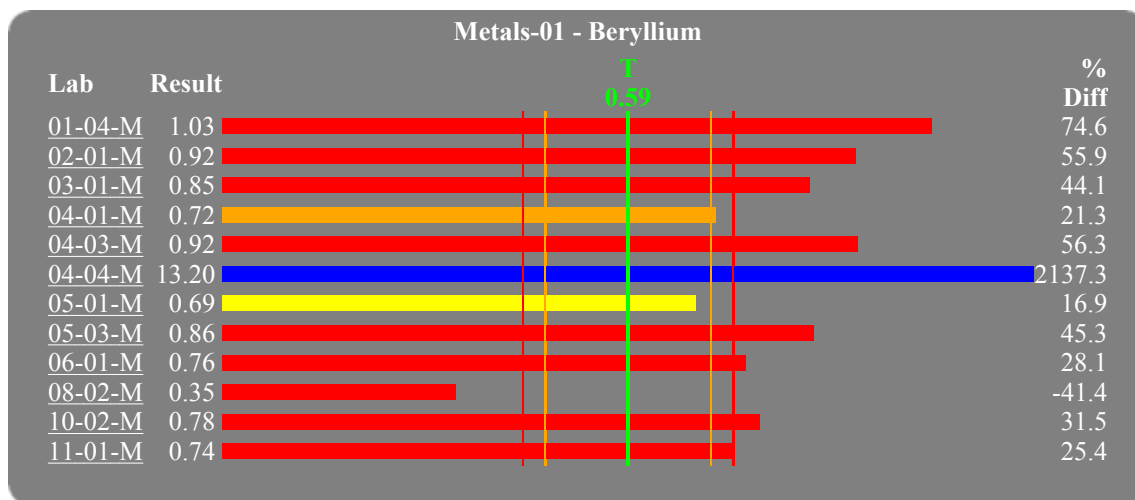
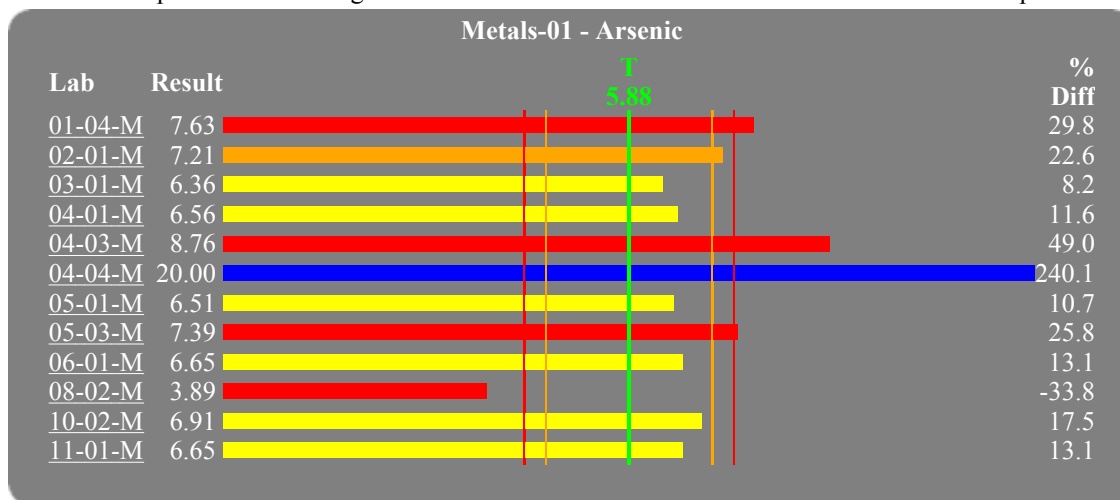
Analyte Results for a Specific Study

10/11/2005



Study Number: 200502-M

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



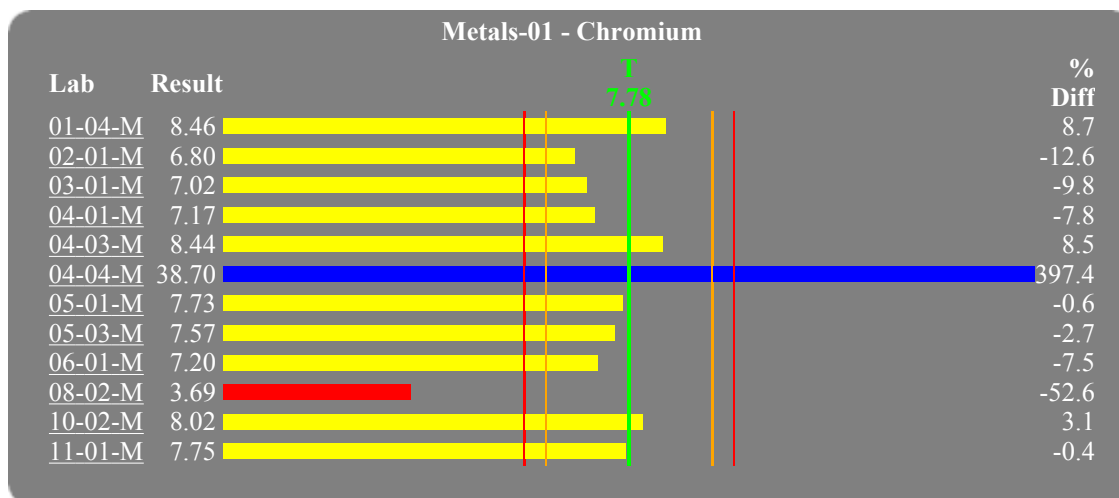
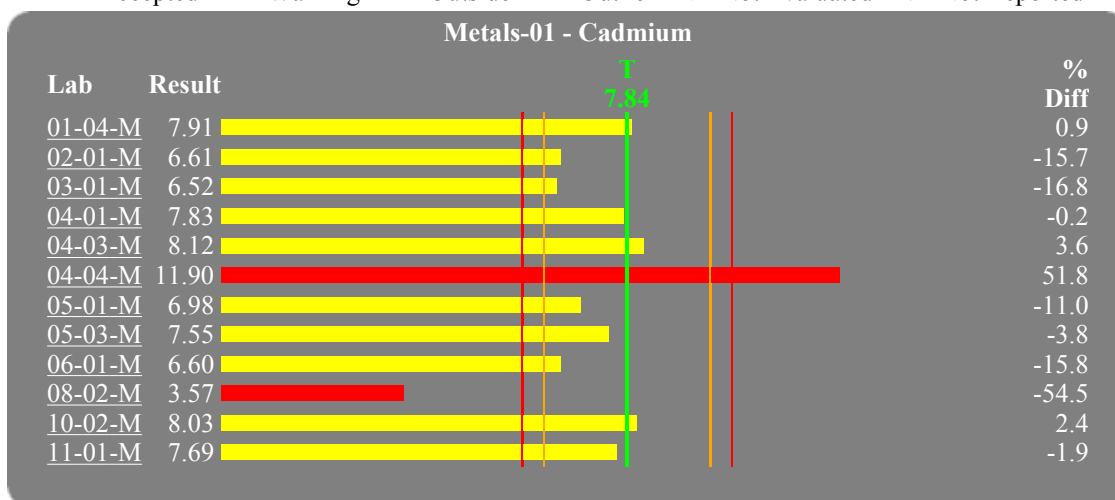
Analyte Results for a Specific Study

10/11/2005



Study Number: 200502-M

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



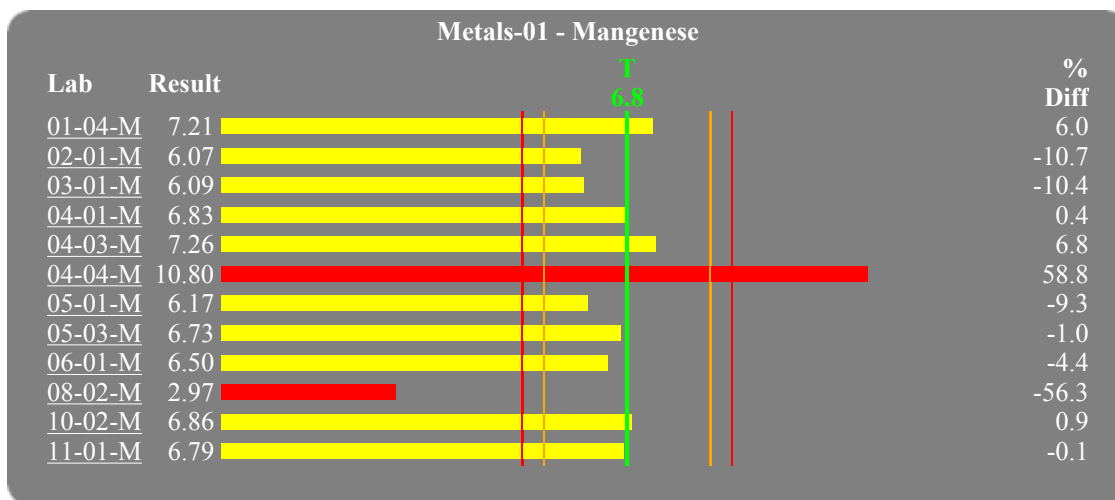
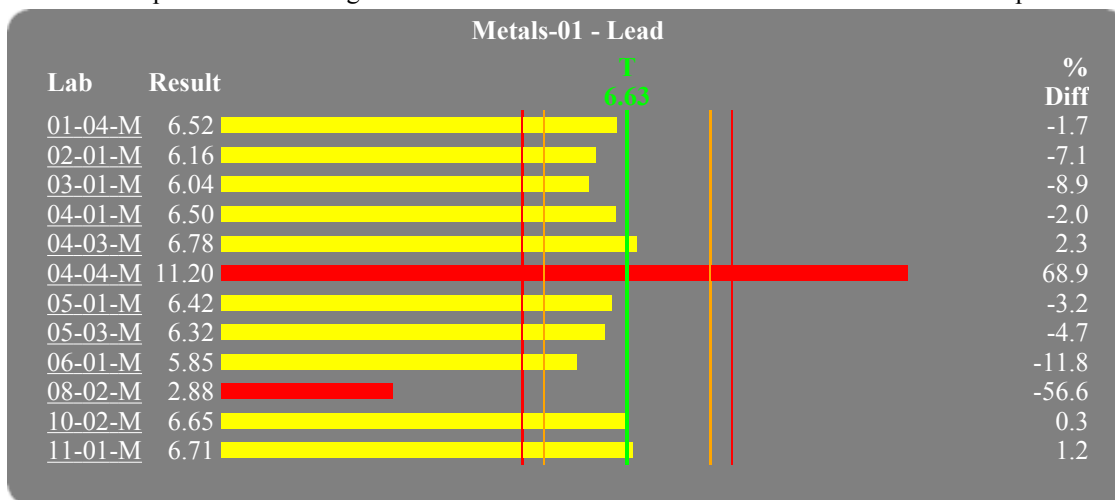
Analyte Results for a Specific Study

10/11/2005



Study Number: 200502-M

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



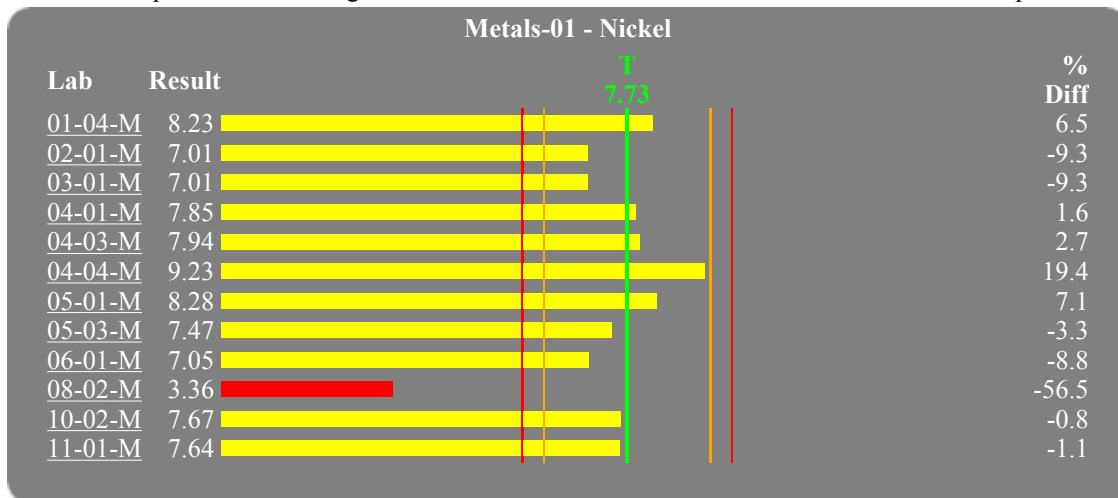
Analyte Results for a Specific Study

10/11/2005



Study Number: 200502-M

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



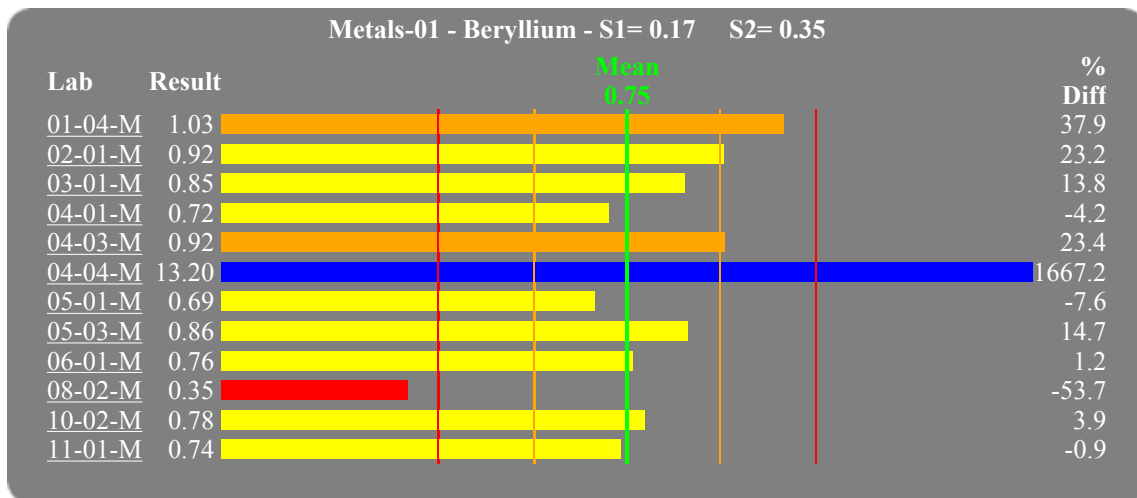
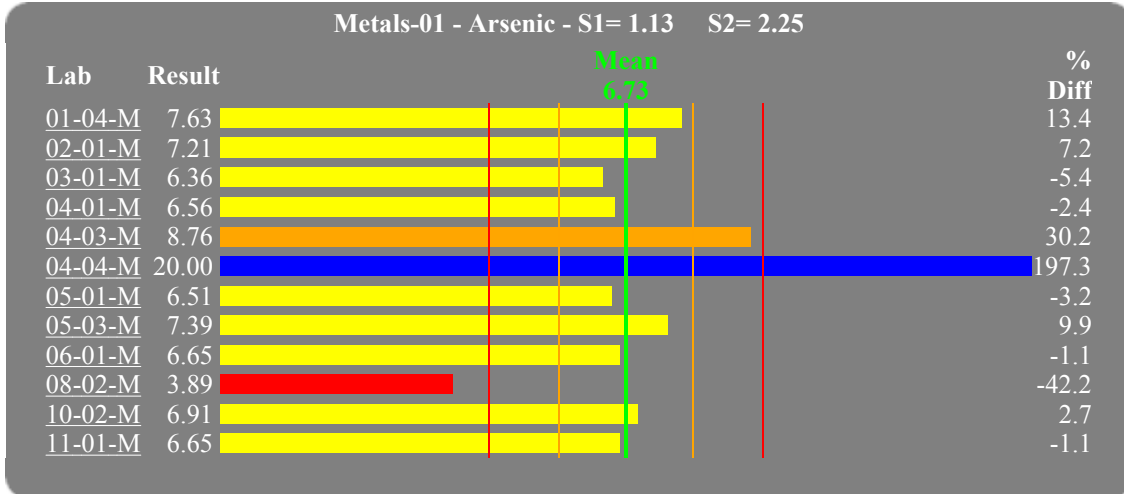
Analyte Results Versus the Study Mean

10/25/2005



Study Number: 200502-M

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



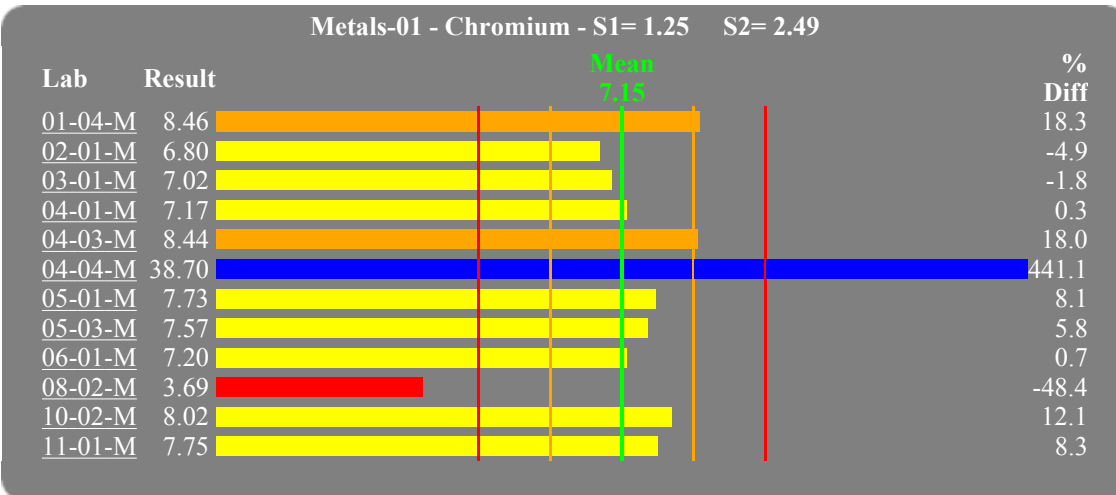
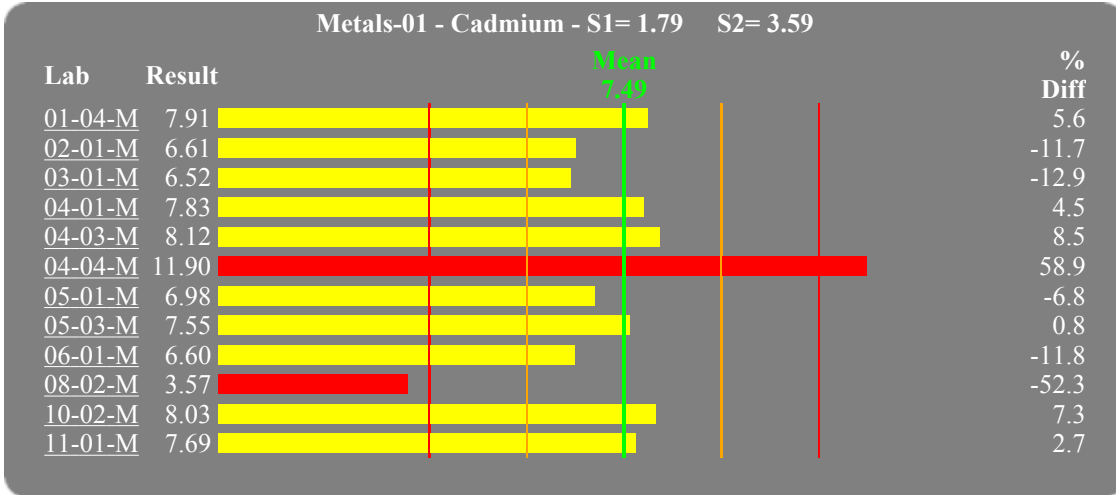
Analyte Results Versus the Study Mean

10/25/2005



Study Number: 200502-M

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



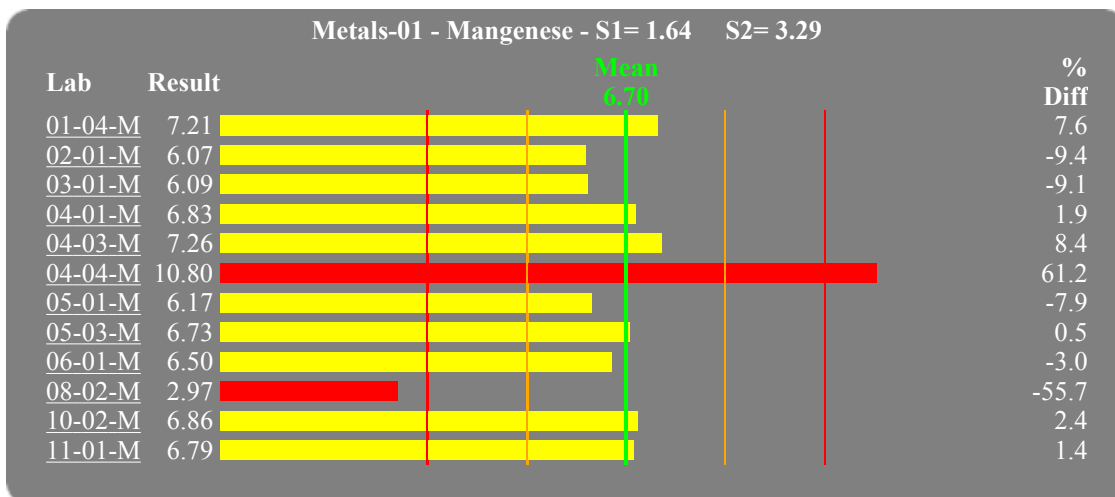
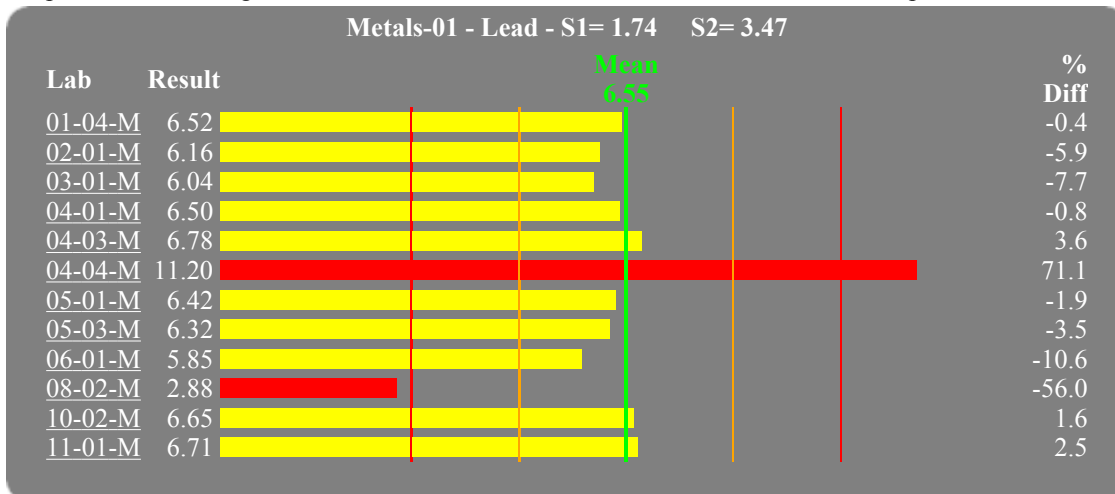
Analyte Results Versus the Study Mean

10/25/2005



Study Number: 200502-M

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



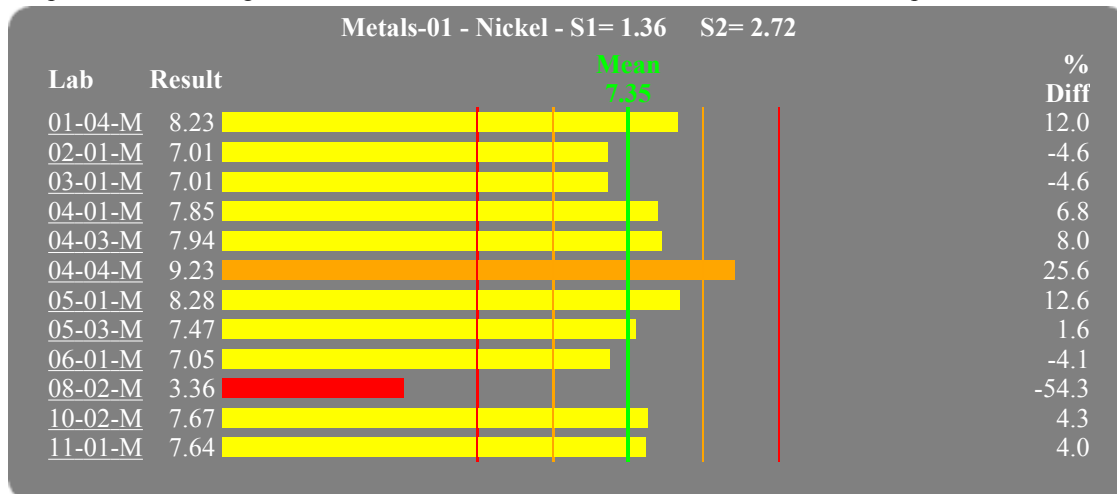
Analyte Results Versus the Study Mean

10/25/2005



Study Number: 200502-M

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported NI No Information



Appendix C

200502-V

Individual Results and Summary Graphs

PTNATTS PE Report

8/1/2005



Study: 200502-V

Close Date: 07/21/2005

Lab Code: 01-01-V

This evaluation report is being submitted for:

Providence, RI
 Attention: Jeannine Dougherty
 RI Dept. of Health Lab.
 50 Orms Street
 Providence, RI, 02904

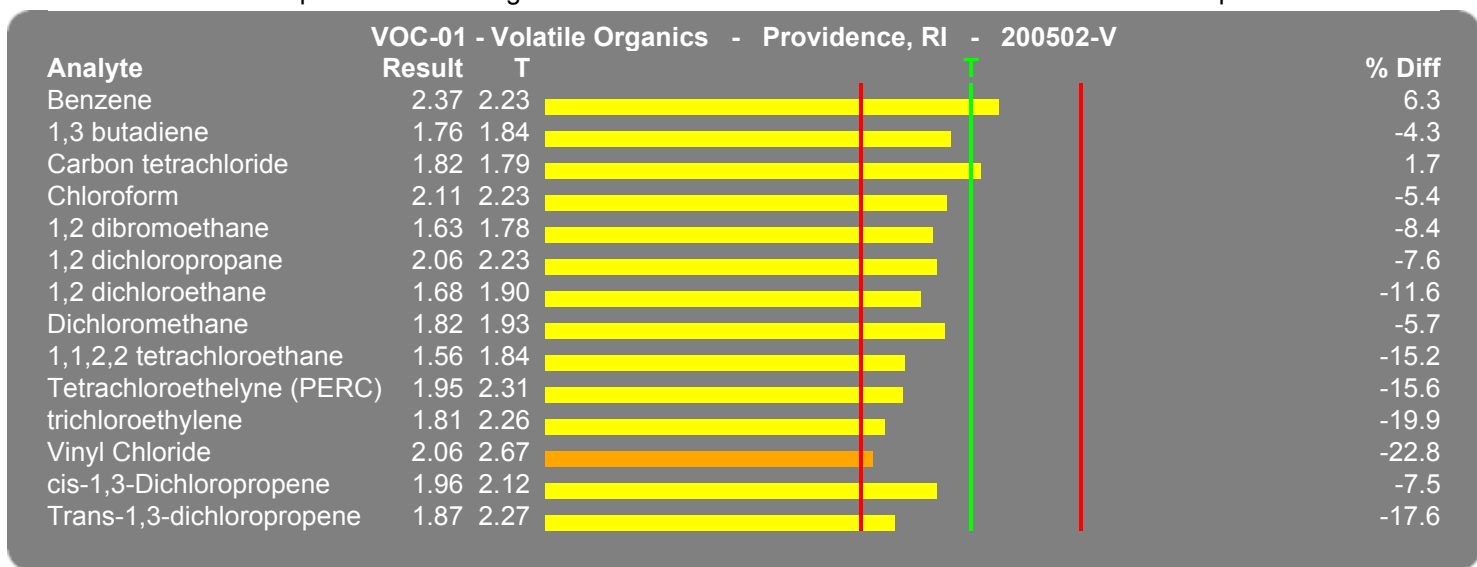
401-222-5550

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Providence, RI - 200502-V

Analyte	Method	Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	036	R.H.		ppbv	2.37	2.23	6.3	20 1.78 to 2.68	25 1.67 to 2.79	
2 1,3 butadiene	036	R.H.		ppbv	1.76	1.84	-4.3	20 1.47 to 2.21	25 1.38 to 2.30	
3 Carbon tetrachloride	036	R.H.		ppbv	1.82	1.79	1.7	20 1.43 to 2.15	25 1.34 to 2.24	
4 Chloroform	036	R.H.		ppbv	2.11	2.23	-5.4	20 1.78 to 2.68	25 1.67 to 2.79	
5 1,2 dibromoethane	036	R.H.		ppbv	1.63	1.78	-8.4	20 1.42 to 2.14	25 1.34 to 2.23	
8 1,2 dichloropropane	036	R.H.		ppbv	2.06	2.23	-7.6	20 1.78 to 2.68	25 1.67 to 2.79	
9 1,2 dichloroethane	036	R.H.		ppbv	1.68	1.90	-11.6	20 1.52 to 2.28	25 1.42 to 2.38	
11 Dichloromethane	036	R.H.		ppbv	1.82	1.93	-5.7	20 1.54 to 2.32	25 1.45 to 2.41	
12 1,1,2,2 tetrachloroethane	036	R.H.		ppbv	1.56	1.84	-15.2	20 1.47 to 2.21	25 1.38 to 2.30	
13 Tetrachloroethelyne (PERC)	036	R.H.		ppbv	1.95	2.31	-15.6	20 1.85 to 2.77	25 1.73 to 2.89	
14 trichloroethylene	036	R.H.		ppbv	1.81	2.26	-19.9	20 1.81 to 2.71	25 1.69 to 2.82	WARNING
15 Vinyl Chloride	036	R.H.		ppbv	2.06	2.67	-22.8	20 2.14 to 3.20	25 2.00 to 3.34	WARNING
16 cis-1,3-Dichloropropene	036	R.H.		ppbv	1.96	2.12	-7.5	20 1.70 to 2.54	25 1.59 to 2.65	
17 Trans-1,3-dichloropropene	036	R.H.		ppbv	1.87	2.27	-17.6	20 1.82 to 2.72	25 1.70 to 2.84	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-V

Close Date: 07/21/2005

Lab Code: 01-02-V

This evaluation report is being submitted for:

Chittenden, VT
 Attention: Chris Russo
 Vermont DEC Environmental Lab
 103 South Main Street
 Waterbury, VT, 05671-0409

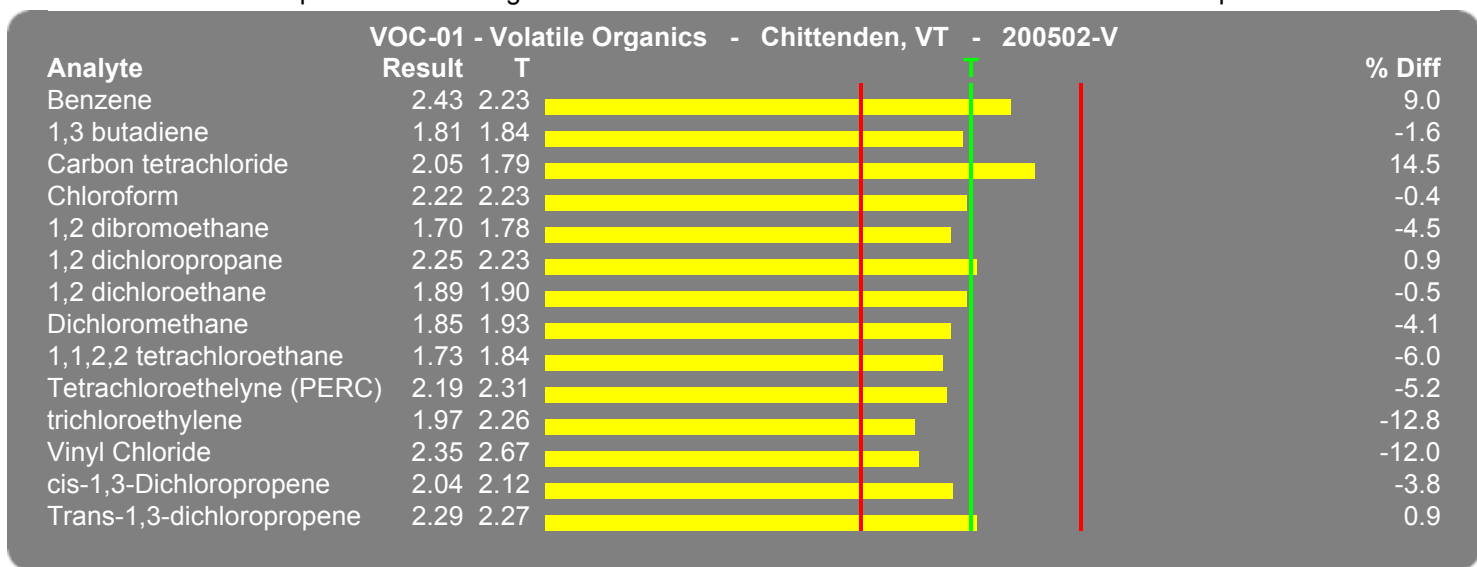
802-241-1381

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Chittenden, VT - 200502-V

Analyte	Method	Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	TO-15	Lewis	ppbv	2.43	2.23	9.0	20 1.78 to 2.68	25 1.67 to 2.79		
2 1,3 butadiene	TO-15	Lewis	ppbv	1.81	1.84	-1.6	20 1.47 to 2.21	25 1.38 to 2.30		
3 Carbon tetrachloride	TO-15	Lewis	ppbv	2.05	1.79	14.5	20 1.43 to 2.15	25 1.34 to 2.24		
4 Chloroform	TO-15	Lewis	ppbv	2.22	2.23	-0.4	20 1.78 to 2.68	25 1.67 to 2.79		
5 1,2 dibromoethane	TO-15	Lewis	ppbv	1.7	1.78	-4.5	20 1.42 to 2.14	25 1.34 to 2.23		
8 1,2 dichloropropane	TO-15	Lewis	ppbv	2.25	2.23	0.9	20 1.78 to 2.68	25 1.67 to 2.79		
9 1,2 dichloroethane	TO-15	Lewis	ppbv	1.89	1.90	-0.5	20 1.52 to 2.28	25 1.42 to 2.38		
11 Dichloromethane	TO-15	Lewis	ppbv	1.85	1.93	-4.1	20 1.54 to 2.32	25 1.45 to 2.41		
12 1,1,2,2 tetrachloroethane	TO-15	Lewis	ppbv	1.73	1.84	-6.0	20 1.47 to 2.21	25 1.38 to 2.30		
13 Tetrachloroethelyne (PERC)	TO-15	Lewis	ppbv	2.19	2.31	-5.2	20 1.85 to 2.77	25 1.73 to 2.89		
14 trichloroethylene	TO-15	Lewis	ppbv	1.97	2.26	-12.8	20 1.81 to 2.71	25 1.69 to 2.82		
15 Vinyl Chloride	TO-15	Lewis	ppbv	2.35	2.67	-12.0	20 2.14 to 3.20	25 2.00 to 3.34		
16 cis-1,3-Dichloropropene	TO-15	Lewis	ppbv	2.04	2.12	-3.8	20 1.70 to 2.54	25 1.59 to 2.65		
17 Trans-1,3-dichloropropene	TO-15	Lewis	ppbv	2.29	2.27	0.9	20 1.82 to 2.72	25 1.70 to 2.84		

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-V

Close Date: 07/21/2005

Lab Code: 01-04-V

This evaluation report is being submitted for:

Region 1
 Attention: Agnes VanLangenhove
 US EPA Region 1 Lab
 11 Technology Drive
 North Chelmsford, MA, 01863

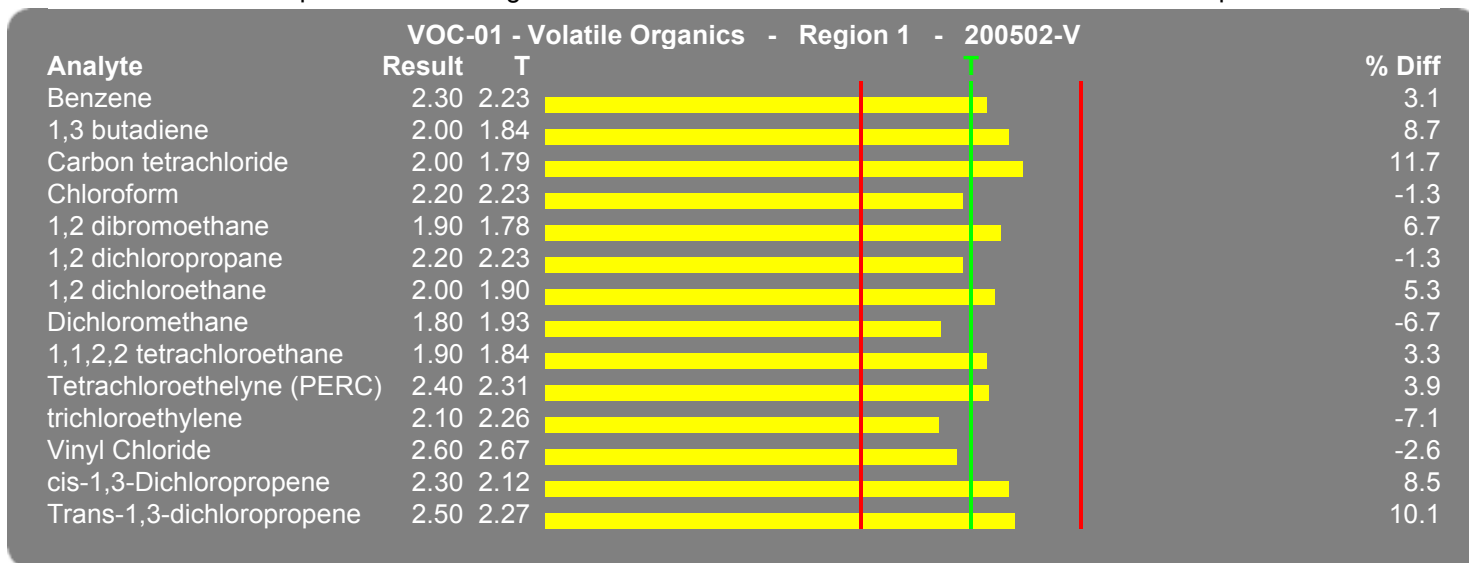
617-918-8338

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Region 1 - 200502-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	TO-15	D.C.	ppbv	2.3	2.23	3.1	20 1.78 to 2.68	25 1.67 to 2.79	
2 1,3 butadiene	TO-15	D.C.	ppbv	2.0	1.84	8.7	20 1.47 to 2.21	25 1.38 to 2.30	
3 Carbon tetrachloride	TO-15	D.C.	ppbv	2.0	1.79	11.7	20 1.43 to 2.15	25 1.34 to 2.24	
4 Chloroform	TO-15	D.C.	ppbv	2.2	2.23	-1.3	20 1.78 to 2.68	25 1.67 to 2.79	
5 1,2 dibromoethane	TO-15	D.C.	ppbv	1.9	1.78	6.7	20 1.42 to 2.14	25 1.34 to 2.23	
8 1,2 dichloropropane	TO-15	D.C.	ppbv	2.2	2.23	-1.3	20 1.78 to 2.68	25 1.67 to 2.79	
9 1,2 dichloroethane	TO-15	D.C.	ppbv	2.0	1.90	5.3	20 1.52 to 2.28	25 1.42 to 2.38	
11 Dichloromethane	TO-15	D.C.	ppbv	1.8	1.93	-6.7	20 1.54 to 2.32	25 1.45 to 2.41	
12 1,1,2,2 tetrachloroethane	TO-15	D.C.	ppbv	1.9	1.84	3.3	20 1.47 to 2.21	25 1.38 to 2.30	
13 Tetrachloroethelyne (PERC)	TO-15	D.C.	ppbv	2.4	2.31	3.9	20 1.85 to 2.77	25 1.73 to 2.89	
14 trichloroethylene	TO-15	D.C.	ppbv	2.1	2.26	-7.1	20 1.81 to 2.71	25 1.69 to 2.82	
15 Vinyl Chloride	TO-15	D.C.	ppbv	2.6	2.67	-2.6	20 2.14 to 3.20	25 2.00 to 3.34	
16 cis-1,3-Dichloropropene	TO-15	D.C.	ppbv	2.3	2.12	8.5	20 1.70 to 2.54	25 1.59 to 2.65	
17 Trans-1,3-dichloropropene	TO-15	D.C.	ppbv	2.5	2.27	10.1	20 1.82 to 2.72	25 1.70 to 2.84	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



This evaluation report is being submitted for:

Rochester and Queens
 Attention: Gary Boynton
 SUNY E. Campus, D Wing, Rm 112
 One University Place
 Rensselaer, NY, 12144

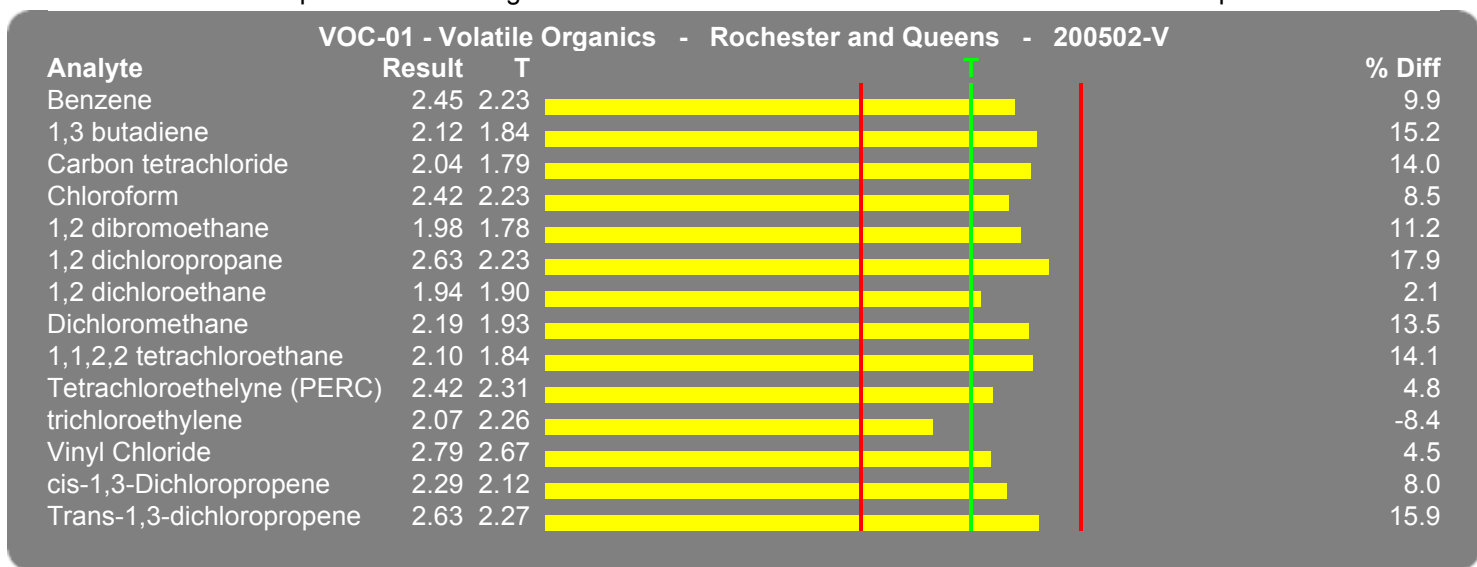
518-525-2733

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Rochester and Queens - 200502-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	150	J.Perry	ppbv	2.45	2.23	9.9	20 1.78 to 2.68	25 1.67 to 2.79	
2 1,3 butadiene	150	J.Perry	ppbv	2.12	1.84	15.2	20 1.47 to 2.21	25 1.38 to 2.30	
3 Carbon tetrachloride	150	J.Perry	ppbv	2.04	1.79	14.0	20 1.43 to 2.15	25 1.34 to 2.24	
4 Chloroform	150	J.Perry	ppbv	2.42	2.23	8.5	20 1.78 to 2.68	25 1.67 to 2.79	
5 1,2 dibromoethane	150	J.Perry	ppbv	1.98	1.78	11.2	20 1.42 to 2.14	25 1.34 to 2.23	
8 1,2 dichloropropane	150	J.Perry	ppbv	2.63	2.23	17.9	20 1.78 to 2.68	25 1.67 to 2.79	
9 1,2 dichloroethane	150	J.Perry	ppbv	1.94	1.90	2.1	20 1.52 to 2.28	25 1.42 to 2.38	
11 Dichloromethane	150	J.Perry	ppbv	2.19	1.93	13.5	20 1.54 to 2.32	25 1.45 to 2.41	
12 1,1,2,2 tetrachloroethane	150	J.Perry	ppbv	2.1	1.84	14.1	20 1.47 to 2.21	25 1.38 to 2.30	
13 Tetrachloroethelyne (PERC)	150	J.Perry	ppbv	2.42	2.31	4.8	20 1.85 to 2.77	25 1.73 to 2.89	
14 trichloroethylene	150	J.Perry	ppbv	2.07	2.26	-8.4	20 1.81 to 2.71	25 1.69 to 2.82	
15 Vinyl Chloride	150	J.Perry	ppbv	2.79	2.67	4.5	20 2.14 to 3.20	25 2.00 to 3.34	
16 cis-1,3-Dichloropropene	150	J.Perry	ppbv	2.29	2.12	8.0	20 1.70 to 2.54	25 1.59 to 2.65	
17 Trans-1,3-dichloropropene	150	J.Perry	ppbv	2.63	2.27	15.9	20 1.82 to 2.72	25 1.70 to 2.84	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-V

Close Date: 07/21/2005

Lab Code: 03-01-V

This evaluation report is being submitted for:

Washington, DC
 Attention: Robert Day
 MD Dept. of the Environment-ARMA
 1800 Washington Blvd. Suite 110
 Baltimore, MD, 21230-1721

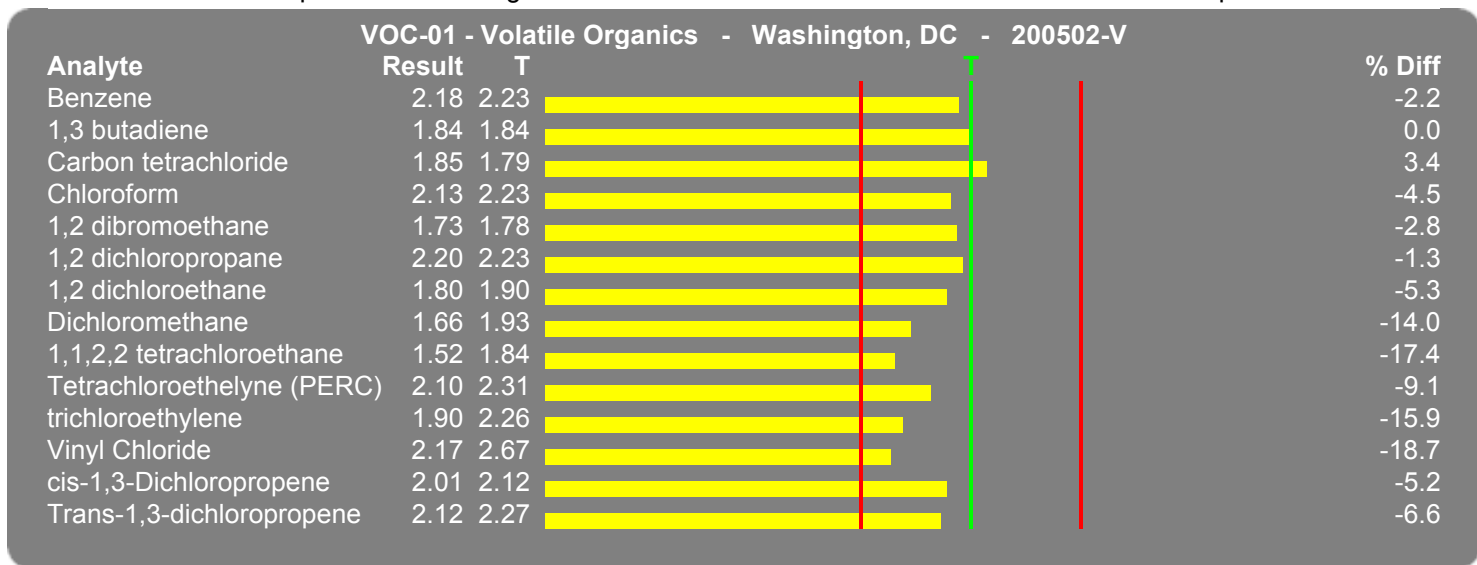
202-535-2986

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Washington, DC - 200502-V

Analyte	Method	Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	113	S.Victor	ppbv		2.18	2.23	-2.2	20 1.78 to 2.68	25 1.67 to 2.79	
2 1,3 butadiene	113	S.Victor	ppbv		1.84	1.84	0.0	20 1.47 to 2.21	25 1.38 to 2.30	
3 Carbon tetrachloride	113	S.Victor	ppbv		1.85	1.79	3.4	20 1.43 to 2.15	25 1.34 to 2.24	
4 Chloroform	113	S.Victor	ppbv		2.13	2.23	-4.5	20 1.78 to 2.68	25 1.67 to 2.79	
5 1,2 dibromoethane	113	S.Victor	ppbv		1.73	1.78	-2.8	20 1.42 to 2.14	25 1.34 to 2.23	
8 1,2 dichloropropane	113	S.Victor	ppbv		2.2	2.23	-1.3	20 1.78 to 2.68	25 1.67 to 2.79	
9 1,2 dichloroethane	113	S.Victor	ppbv		1.8	1.90	-5.3	20 1.52 to 2.28	25 1.42 to 2.38	
11 Dichloromethane	113	S.Victor	ppbv		1.66	1.93	-14.0	20 1.54 to 2.32	25 1.45 to 2.41	
12 1,1,2,2 tetrachloroethane	113	S.Victor	ppbv		1.52	1.84	-17.4	20 1.47 to 2.21	25 1.38 to 2.30	
13 Tetrachloroethelyne (PERC)	113	S.Victor	ppbv		2.1	2.31	-9.1	20 1.85 to 2.77	25 1.73 to 2.89	
14 trichloroethylene	113	S.Victor	ppbv		1.9	2.26	-15.9	20 1.81 to 2.71	25 1.69 to 2.82	
15 Vinyl Chloride	113	S.Victor	ppbv		2.17	2.67	-18.7	20 2.14 to 3.20	25 2.00 to 3.34	
16 cis-1,3-Dichloropropene	113	S.Victor	ppbv		2.01	2.12	-5.2	20 1.70 to 2.54	25 1.59 to 2.65	
17 Trans-1,3-dichloropropene	113	S.Victor	ppbv		2.12	2.27	-6.6	20 1.82 to 2.72	25 1.70 to 2.84	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-V

Close Date: 07/21/2005

Lab Code: 04-01-V

This evaluation report is being submitted for:

Tampa
 Attention: Tom Stringfellow
 Pinellas Co. DEM AQ
 300 S Garden Ave
 Clearwater, FL, 33756

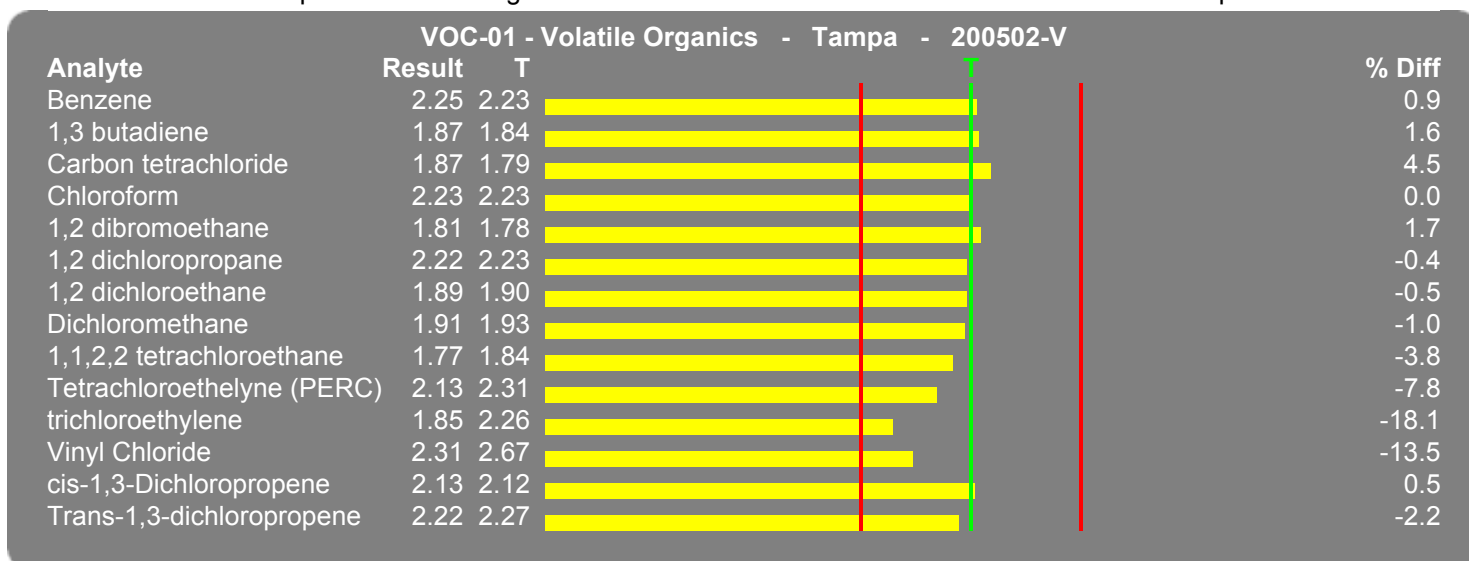
727-464-4422

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Tampa - 200502-V

Analyte	Method	Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	176	MJL	ppbv	2.25	2.23	0.9	20 1.78 to 2.68	25 1.67 to 2.79		
2 1,3 butadiene	176	MJL	ppbv	1.87	1.84	1.6	20 1.47 to 2.21	25 1.38 to 2.30		
3 Carbon tetrachloride	176	MJL	ppbv	1.87	1.79	4.5	20 1.43 to 2.15	25 1.34 to 2.24		
4 Chloroform	176	MJL	ppbv	2.23	2.23	0.0	20 1.78 to 2.68	25 1.67 to 2.79		
5 1,2 dibromoethane	176	MJL	ppbv	1.81	1.78	1.7	20 1.42 to 2.14	25 1.34 to 2.23		
8 1,2 dichloropropane	176	MJL	ppbv	2.22	2.23	-0.4	20 1.78 to 2.68	25 1.67 to 2.79		
9 1,2 dichloroethane	176	MJL	ppbv	1.89	1.90	-0.5	20 1.52 to 2.28	25 1.42 to 2.38		
11 Dichloromethane	176	MJL	ppbv	1.91	1.93	-1.0	20 1.54 to 2.32	25 1.45 to 2.41		
12 1,1,2,2 tetrachloroethane	176	MJL	ppbv	1.77	1.84	-3.8	20 1.47 to 2.21	25 1.38 to 2.30		
13 Tetrachloroethelyne (PERC)	176	MJL	ppbv	2.13	2.31	-7.8	20 1.85 to 2.77	25 1.73 to 2.89		
14 trichloroethylene	176	MJL	ppbv	1.85	2.26	-18.1	20 1.81 to 2.71	25 1.69 to 2.82		
15 Vinyl Chloride	176	MJL	ppbv	2.31	2.67	-13.5	20 2.14 to 3.20	25 2.00 to 3.34		
16 cis-1,3-Dichloropropene	176	MJL	ppbv	2.13	2.12	0.5	20 1.70 to 2.54	25 1.59 to 2.65		
17 Trans-1,3-dichloropropene	176	MJL	ppbv	2.22	2.27	-2.2	20 1.82 to 2.72	25 1.70 to 2.84		

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-V

Close Date: 07/21/2005

Lab Code: 04-02-V

This evaluation report is being submitted for:

Chesterfield, SC
 Attention: Scott Reynolds
 SC Dept of HEC, Div. of AQ Analysis
 8231 Parklane Road
 Columbia, SC, 29223

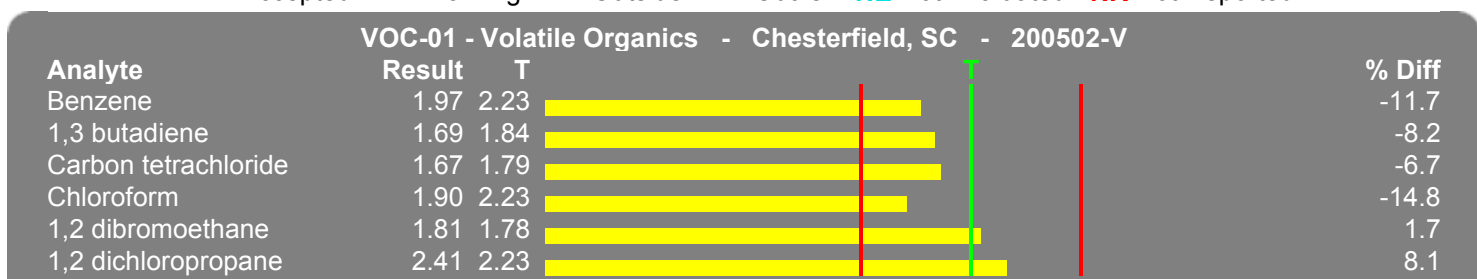
803-896-0902









Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Chesterfield, SC - 200502-V

Analyte	Method	Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn +/-%	Limits Range	Accept +/-%	Limits Range	Evaluation
1 Benzene	TO-15		Dale Baker	ppbv	1.97	2.23	11.7	20	1.78 to 2.68	25	1.67 to 2.79	
2 1,3 butadiene	TO-15		Dale Baker	ppbv	1.69	1.84	-8.2	20	1.47 to 2.21	25	1.38 to 2.30	
3 Carbon tetrachloride	TO-15		Dale Baker	ppbv	1.67	1.79	-6.7	20	1.43 to 2.15	25	1.34 to 2.24	
4 Chloroform	TO-15		Dale Baker	ppbv	1.9	2.23	14.8	20	1.78 to 2.68	25	1.67 to 2.79	
5 1,2 dibromoethane	TO-15		Dale Baker	ppbv	1.81	1.78	1.7	20	1.42 to 2.14	25	1.34 to 2.23	
8 1,2 dichloropropane	TO-15		Dale Baker	ppbv	2.41	2.23	8.1	20	1.78 to 2.68	25	1.67 to 2.79	
9 1,2 dichloroethane	TO-15		Dale Baker	ppbv	1.57	1.90	17.4	20	1.52 to 2.28	25	1.42 to 2.38	
11 Dichloromethane	TO-15		Dale Baker	ppbv	1.74	1.93	-9.8	20	1.54 to 2.32	25	1.45 to 2.41	
12 1,1,2,2 tetrachloroethane	TO-15		Dale Baker	ppbv	1.42	1.84	22.8	20	1.47 to 2.21	25	1.38 to 2.30	WARNING
13 (PERC) Tetrachloroethelyne	TO-15		Dale Baker	ppbv	2.47	2.31	6.9	20	1.85 to 2.77	25	1.73 to 2.89	
14 trichloroethylene	TO-15		Dale Baker	ppbv	2.48	2.26	9.7	20	1.81 to 2.71	25	1.69 to 2.82	
15 Vinyl Chloride	TO-15		Dale Baker	ppbv	1.18	2.67	55.8	20	2.14 to 3.20	25	2.00 to 3.34	< 25%
16 cis-1,3-Dichloropropene	TO-15		Dale Baker	ppbv	2.15	2.12	1.4	20	1.70 to 2.54	25	1.59 to 2.65	
17 Trans-1,3-dichloropropene	TO-15		Dale Baker	ppbv	2.02	2.27	11.0	20	1.82 to 2.72	25	1.70 to 2.84	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



1,2 dichloroethane	1.57	1.90		-17.4
Dichloromethane	1.74	1.93		-9.8
1,1,2,2 tetrachloroethane	1.42	1.84		-22.8
Tetrachloroethylene (PERC)	2.47	2.31		6.9
trichloroethylene	2.48	2.26		9.7
Vinyl Chloride	1.18	2.67		-55.8
cis-1,3-Dichloropropene	2.15	2.12		1.4
Trans-1,3-dichloropropene	2.02	2.27		-11.0

This evaluation report is being submitted for:

Hazard, KY
 Attention: Charles Snodgrass
 Div of Environmental Services
 100 Sower Blvd. Suite 104
 Frankfort, KY, 40601-8272

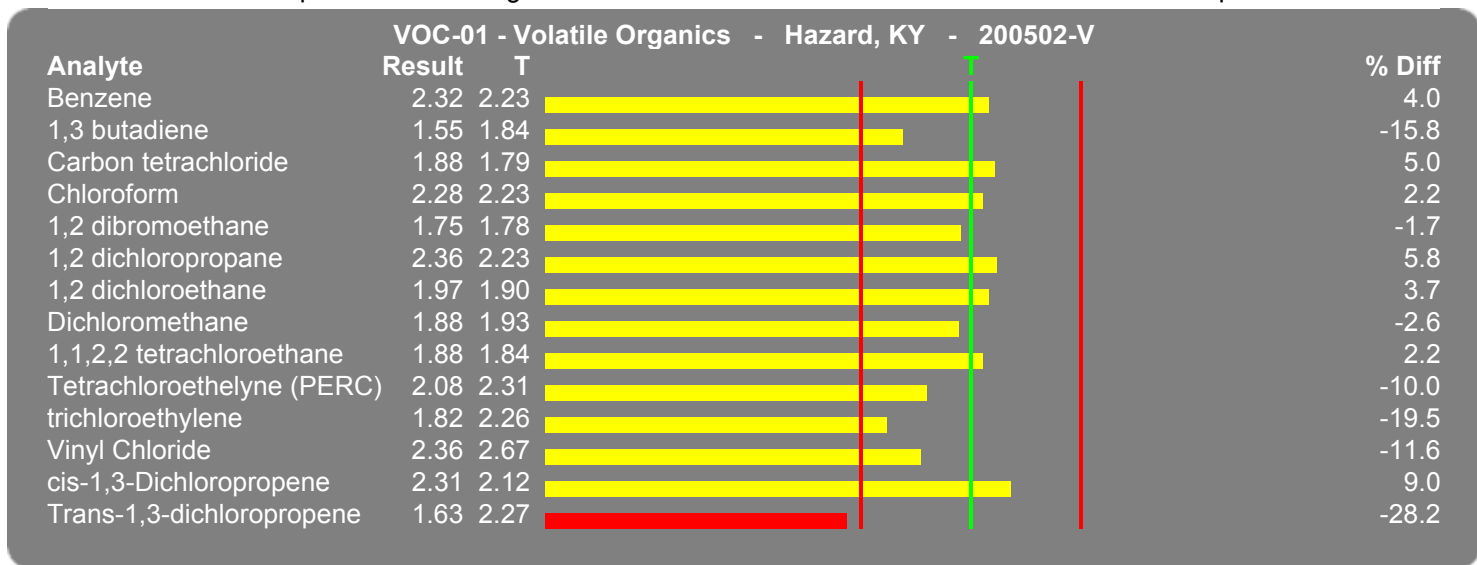
502-573-3382

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Hazard, KY - 200502-V

Analyte	Method	Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	TO-15	BC		ppbv	2.32	2.23	4.0	20 1.78 to 2.68	25 1.67 to 2.79	
2 1,3 butadiene	TO-15	BC		ppbv	1.55	1.84	-15.8	20 1.47 to 2.21	25 1.38 to 2.30	
3 Carbon tetrachloride	TO-15	BC		ppbv	1.88	1.79	5.0	20 1.43 to 2.15	25 1.34 to 2.24	
4 Chloroform	TO-15	BC		ppbv	2.28	2.23	2.2	20 1.78 to 2.68	25 1.67 to 2.79	
5 1,2 dibromoethane	TO-15	BC		ppbv	1.75	1.78	-1.7	20 1.42 to 2.14	25 1.34 to 2.23	
8 1,2 dichloropropane	TO-15	BC		ppbv	2.36	2.23	5.8	20 1.78 to 2.68	25 1.67 to 2.79	
9 1,2 dichloroethane	TO-15	BC		ppbv	1.97	1.90	3.7	20 1.52 to 2.28	25 1.42 to 2.38	
11 Dichloromethane	TO-15	BC		ppbv	1.88	1.93	-2.6	20 1.54 to 2.32	25 1.45 to 2.41	
12 1,1,2,2 tetrachloroethane	TO-15	BC		ppbv	1.88	1.84	2.2	20 1.47 to 2.21	25 1.38 to 2.30	
13 Tetrachloroethelyne (PERC)	TO-15	BC		ppbv	2.08	2.31	-10.0	20 1.85 to 2.77	25 1.73 to 2.89	
14 trichloroethylene	TO-15	BC		ppbv	1.82	2.26	-19.5	20 1.81 to 2.71	25 1.69 to 2.82	
15 Vinyl Chloride	TO-15	BC		ppbv	2.36	2.67	-11.6	20 2.14 to 3.20	25 2.00 to 3.34	
16 cis-1,3-Dichloropropene	TO-15	BC		ppbv	2.31	2.12	9.0	20 1.70 to 2.54	25 1.59 to 2.65	
17 Trans-1,3-dichloropropene	TO-15	BC		ppbv	1.63	2.27	-28.2	20 1.82 to 2.72	25 1.70 to 2.84	< 25%

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



This evaluation report is being submitted for:

Atlanta, GA
 Attention: Susan Zimmer-Dauphinee
 GA DNR EPD Laboratory
 455 14th Street
 Atlanta, GA, 30318-7900

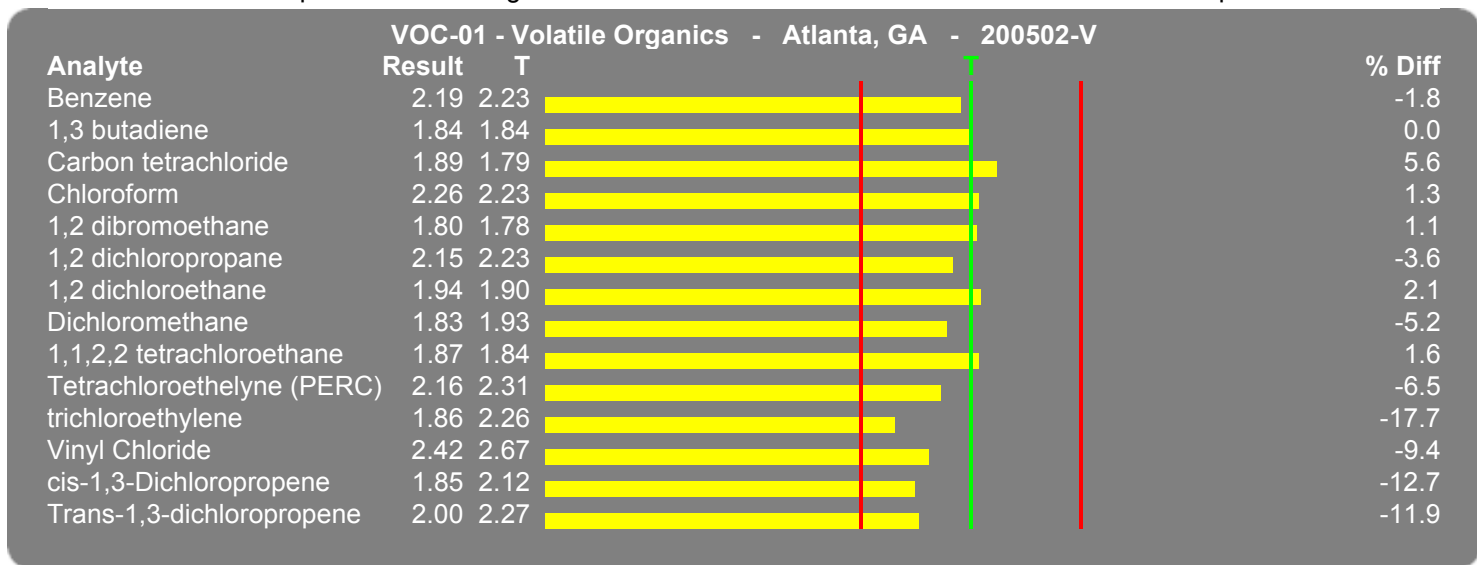
404-363-7004

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Atlanta, GA - 200502-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/-% Range	Accept Limits +/-% Range	Evaluation
1 Benzene	TO-14/TO-15 HZ		ppbv	2.19	2.23	-1.8	20 1.78 to 2.68	25 1.67 to 2.79	
2 1,3 butadiene	TO-14/TO-15 HZ		ppbv	1.84	1.84	0.0	20 1.47 to 2.21	25 1.38 to 2.30	
3 Carbon tetrachloride	TO-14/TO-15 HZ		ppbv	1.89	1.79	5.6	20 1.43 to 2.15	25 1.34 to 2.24	
4 Chloroform	TO-14/TO-15 HZ		ppbv	2.26	2.23	1.3	20 1.78 to 2.68	25 1.67 to 2.79	
5 1,2 dibromoethane	TO-14/TO-15 HZ		ppbv	1.8	1.78	1.1	20 1.42 to 2.14	25 1.34 to 2.23	
8 1,2 dichloropropane	TO-14/TO-15 HZ		ppbv	2.15	2.23	-3.6	20 1.78 to 2.68	25 1.67 to 2.79	
9 1,2 dichloroethane	TO-14/TO-15 HZ		ppbv	1.94	1.90	2.1	20 1.52 to 2.28	25 1.42 to 2.38	
11 Dichloromethane	TO-14/TO-15 HZ		ppbv	1.83	1.93	-5.2	20 1.54 to 2.32	25 1.45 to 2.41	
12 1,1,2,2 tetrachloroethane	TO-14/TO-15 HZ		ppbv	1.87	1.84	1.6	20 1.47 to 2.21	25 1.38 to 2.30	
13 Tetrachloroethelyne (PERC)	TO-14/TO-15 HZ		ppbv	2.16	2.31	-6.5	20 1.85 to 2.77	25 1.73 to 2.89	
14 trichloroethylene	TO-14/TO-15 HZ		ppbv	1.86	2.26	-17.7	20 1.81 to 2.71	25 1.69 to 2.82	
15 Vinyl Chloride	TO-14/TO-15 HZ		ppbv	2.42	2.67	-9.4	20 2.14 to 3.20	25 2.00 to 3.34	
16 cis-1,3-Dichloropropene	TO-14/TO-15 HZ		ppbv	1.85	2.12	-12.7	20 1.70 to 2.54	25 1.59 to 2.65	
17 Trans-1,3-dichloropropene	TO-14/TO-15 HZ		ppbv	2.0	2.27	-11.9	20 1.82 to 2.72	25 1.70 to 2.84	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

10/11/2005



Study: 200502-V Close Date: 07/21/2005 Lab Code: 05-01-V

This evaluation report is being submitted for:

Detroit, MI
 Attention: Mary Ann Heindorf
 DEQ, AQD, Air Toxics
 3350 N MLK Bldg.44 3rd Floor
 Lansing, MI, 48906

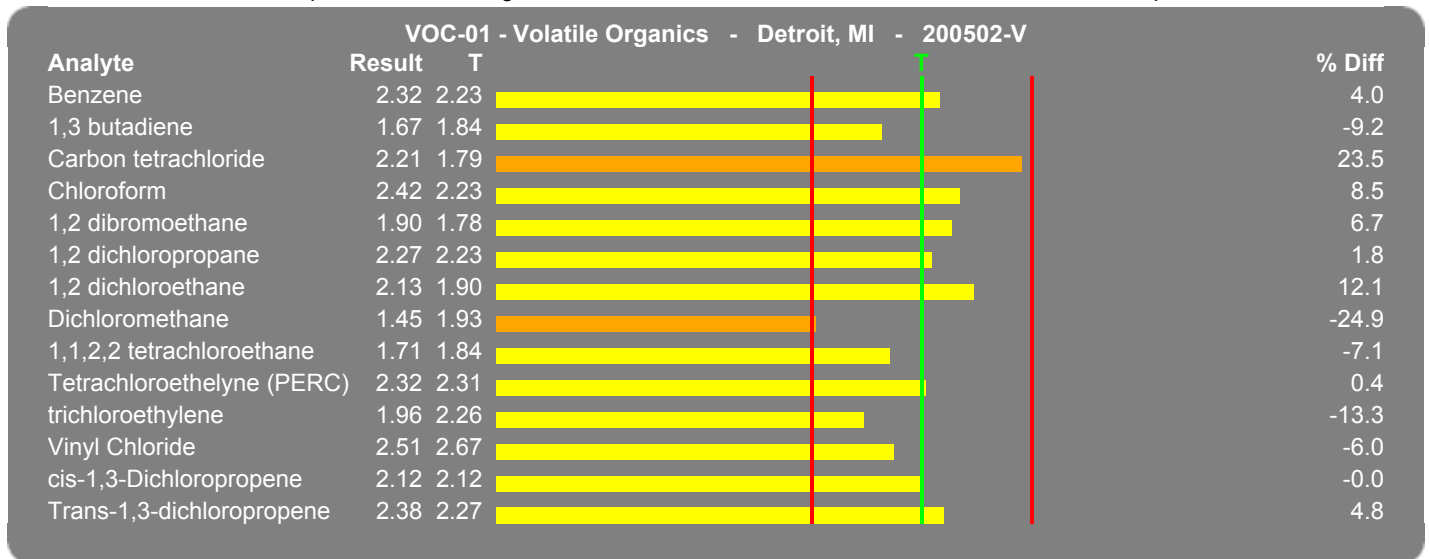
517-373-2151

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Detroit, MI - 200502-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	TO-15	J.B	ppbv	2.32	2.23	4.0	20 1.78 to 2.68	25 1.67 to 2.79	
2 1,3 butadiene	TO-15	J.B	ppbv	1.67	1.84	-9.2	20 1.47 to 2.21	25 1.38 to 2.30	
3 Carbon tetrachloride	TO-15	J.B	ppbv	2.21	1.79	23.5	20 1.43 to 2.15	25 1.34 to 2.24	WARNING
4 Chloroform	TO-15	J.B	ppbv	2.42	2.23	8.5	20 1.78 to 2.68	25 1.67 to 2.79	
5 1,2 dibromoethane	TO-15	J.B	ppbv	1.9	1.78	6.7	20 1.42 to 2.14	25 1.34 to 2.23	
8 1,2 dichloropropane	TO-15	J.B	ppbv	2.27	2.23	1.8	20 1.78 to 2.68	25 1.67 to 2.79	
9 1,2 dichloroethane	TO-15	J.B	ppbv	2.13	1.90	12.1	20 1.52 to 2.28	25 1.42 to 2.38	
11 Dichloromethane	TO-15	J.B	ppbv	1.45	1.93	-24.9	20 1.54 to 2.32	25 1.45 to 2.41	WARNING
12 1,1,2,2 tetrachloroethane	TO-15	J.B	ppbv	1.71	1.84	-7.1	20 1.47 to 2.21	25 1.38 to 2.30	
13 Tetrachloroethelyne (PERC)	TO-15	J.B	ppbv	2.32	2.31	0.4	20 1.85 to 2.77	25 1.73 to 2.89	
14 trichloroethylene	TO-15	J.B	ppbv	1.96	2.26	-13.3	20 1.81 to 2.71	25 1.69 to 2.82	
15 Vinyl Chloride	TO-15	J.B	ppbv	2.51	2.67	-6.0	20 2.14 to 3.20	25 2.00 to 3.34	
16 cis-1,3-Dichloropropene	TO-15	J.B	ppbv	2.12	2.12	-0.0	20 1.70 to 2.54	25 1.59 to 2.65	
17 Trans-1,3-dichloropropene	TO-15	J.B	ppbv	2.38	2.27	4.8	20 1.82 to 2.72	25 1.70 to 2.84	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

10/11/2005



Study: 200502-V Close Date: 07/21/2005 Lab Code: 05-03-V

This evaluation report is being submitted for:

Mayville, WI
 Attention: Mark Allen
 Wisconsin DNR
 101 S Webster St
 Madison,, WI, 53707

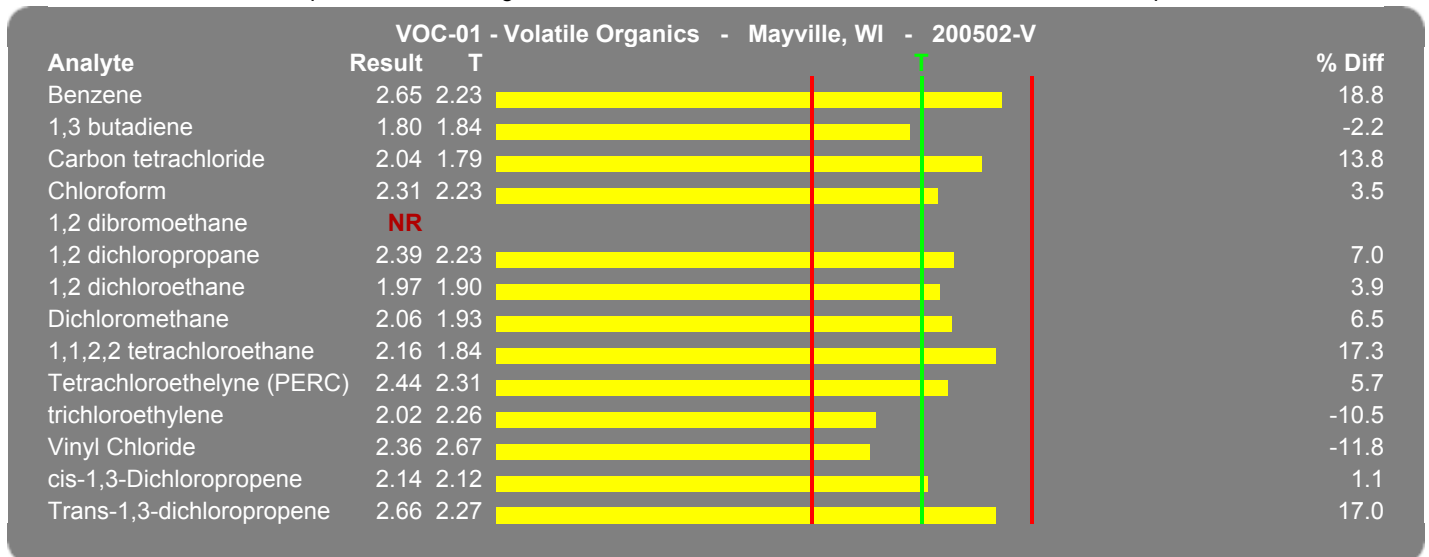
608-266-8049

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Mayville, WI - 200502-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	unk	unk	ppbv	2.649	2.23	18.8	20 1.78 to 2.68	25 1.67 to 2.79	
2 1,3 butadiene	unk	unk	ppbv	1.799	1.84	-2.2	20 1.47 to 2.21	25 1.38 to 2.30	
3 Carbon tetrachloride	unk	unk	ppbv	2.037	1.79	13.8	20 1.43 to 2.15	25 1.34 to 2.24	
4 Chloroform	unk	unk	ppbv	2.309	2.23	3.5	20 1.78 to 2.68	25 1.67 to 2.79	
5 1,2 dibromoethane				NR	1.78		1.42 to 2.14	1.34 to 2.23	
8 1,2 dichloropropane	unk	unk	ppbv	2.387	2.23	7.0	20 1.78 to 2.68	25 1.67 to 2.79	
9 1,2 dichloroethane	unk	unk	ppbv	1.974	1.90	3.9	20 1.52 to 2.28	25 1.42 to 2.38	
11 Dichloromethane	unk	unk	ppbv	2.055	1.93	6.5	20 1.54 to 2.32	25 1.45 to 2.41	
12 1,1,2,2 tetrachloroethane	unk	unk	ppbv	2.159	1.84	17.3	20 1.47 to 2.21	25 1.38 to 2.30	
13 Tetrachloroethelyne (PERC)	unk	unk	ppbv	2.442	2.31	5.7	20 1.85 to 2.77	25 1.73 to 2.89	
14 trichloroethylene	unk	unk	ppbv	2.022	2.26	-10.5	20 1.81 to 2.71	25 1.69 to 2.82	
15 Vinyl Chloride	unk	unk	ppbv	2.356	2.67	-11.8	20 2.14 to 3.20	25 2.00 to 3.34	
16 cis-1,3-Dichloropropene	unk	unk	ppbv	2.144	2.12	1.1	20 1.70 to 2.54	25 1.59 to 2.65	
17 Trans-1,3-dichloropropene	unk	unk	ppbv	2.657	2.27	17.0	20 1.82 to 2.72	25 1.70 to 2.84	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



This evaluation report is being submitted for:

Houston & Harrison TX
 Attention: David Brymer
 Texas CEQ
 12124 Park 35 Circle, MC 165 Bldg B
 Austin, TX, 78753

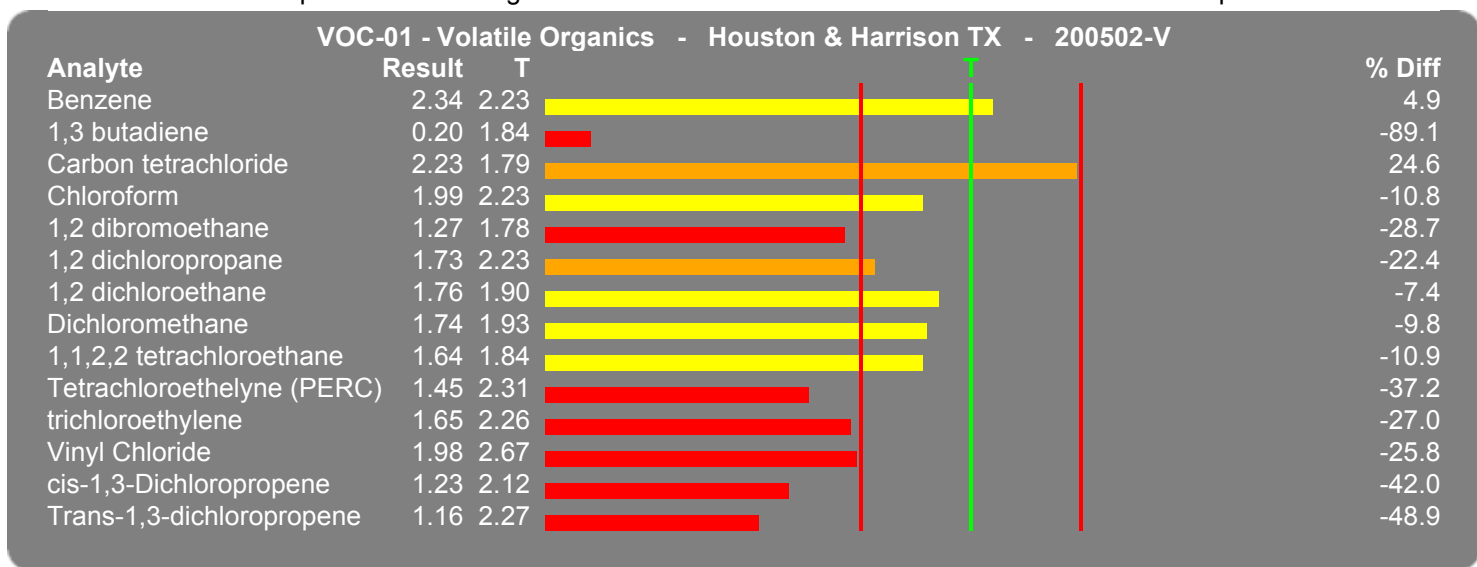
512-239-1725

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Houston & Harrison TX - 200502-V

Analyte	Method	Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	TO-15	JL/AS	ppbv	2.34	2.23	4.9	20 1.78 to 2.68	25 1.67 to 2.79		
2 1,3 butadiene	TO-15	JL/AS	ppbv	0.2	1.84	-89.1	20 1.47 to 2.21	25 1.38 to 2.30	< 25%	
3 Carbon tetrachloride	TO-15	JL/AS	ppbv	2.23	1.79	24.6	20 1.43 to 2.15	25 1.34 to 2.24	WARNING	
4 Chloroform	TO-15	JL/AS	ppbv	1.99	2.23	-10.8	20 1.78 to 2.68	25 1.67 to 2.79		
5 1,2 dibromoethane	TO-15	JL/AS	ppbv	1.27	1.78	-28.7	20 1.42 to 2.14	25 1.34 to 2.23	< 25%	
8 1,2 dichloropropane	TO-15	JL/AS	ppbv	1.73	2.23	-22.4	20 1.78 to 2.68	25 1.67 to 2.79	WARNING	
9 1,2 dichloroethane	TO-15	JL/AS	ppbv	1.76	1.90	-7.4	20 1.52 to 2.28	25 1.42 to 2.38		
11 Dichloromethane	TO-15	JL/AS	ppbv	1.74	1.93	-9.8	20 1.54 to 2.32	25 1.45 to 2.41		
12 1,1,2,2 tetrachloroethane	TO-15	JL/AS	ppbv	1.64	1.84	-10.9	20 1.47 to 2.21	25 1.38 to 2.30		
13 Tetrachloroethelyne (PERC)	TO-15	JL/AS	ppbv	1.45	2.31	-37.2	20 1.85 to 2.77	25 1.73 to 2.89	< 25%	
14 trichloroethylene	TO-15	JL/AS	ppbv	1.65	2.26	-27.0	20 1.81 to 2.71	25 1.69 to 2.82	< 25%	
15 Vinyl Chloride	TO-15	JL/AS	ppbv	1.98	2.67	-25.8	20 2.14 to 3.20	25 2.00 to 3.34	< 25%	
16 cis-1,3-Dichloropropene	TO-15	JL/AS	ppbv	1.23	2.12	-42.0	20 1.70 to 2.54	25 1.59 to 2.65	< 25%	
17 Trans-1,3-dichloropropene	TO-15	JL/AS	ppbv	1.16	2.27	-48.9	20 1.82 to 2.72	25 1.70 to 2.84	< 25%	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-V

Close Date: 07/21/2005

Lab Code: 09-02-V

This evaluation report is being submitted for:

Phoenix, AZ

Attention: Michael Sundblom

Mike Kaszuba

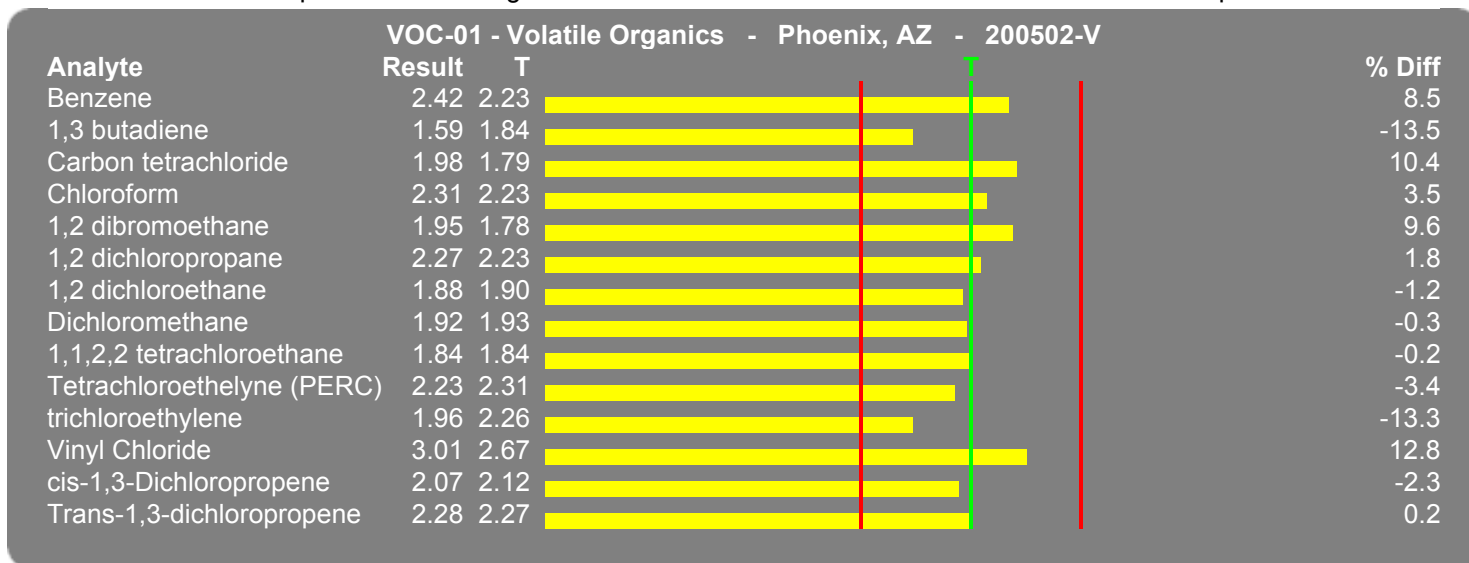
602-771-2364

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Phoenix, AZ - 200502-V

Analyte	Method	Description	Analyst	Units	Reported	Assigned	% Diff	Warn Limits		Accept Limits		Evaluation
					Value	Value (T)		+/-%	Range	+/-%	Range	
1 Benzene	210	MK	ppbv	2.419	2.23	8.5	20	1.78 to 2.68	25	1.67 to 2.79		
2 1,3 butadiene	210	MK	ppbv	1.591	1.84	-13.5	20	1.47 to 2.21	25	1.38 to 2.30		
3 Carbon tetrachloride	210	MK	ppbv	1.976	1.79	10.4	20	1.43 to 2.15	25	1.34 to 2.24		
4 Chloroform	210	MK	ppbv	2.308	2.23	3.5	20	1.78 to 2.68	25	1.67 to 2.79		
5 1,2 dibromoethane	210	MK	ppbv	1.95	1.78	9.6	20	1.42 to 2.14	25	1.34 to 2.23		
8 1,2 dichloropropane	210	MK	ppbv	2.271	2.23	1.8	20	1.78 to 2.68	25	1.67 to 2.79		
9 1,2 dichloroethane	210	MK	ppbv	1.877	1.90	-1.2	20	1.52 to 2.28	25	1.42 to 2.38		
11 Dichloromethane	210	MK	ppbv	1.924	1.93	-0.3	20	1.54 to 2.32	25	1.45 to 2.41		
12 1,1,2,2 tetrachloroethane	210	MK	ppbv	1.836	1.84	-0.2	20	1.47 to 2.21	25	1.38 to 2.30		
13 Tetrachloroethelyne (PERC)	210	MK	ppbv	2.232	2.31	-3.4	20	1.85 to 2.77	25	1.73 to 2.89		
14 trichloroethylene	210	MK	ppbv	1.959	2.26	-13.3	20	1.81 to 2.71	25	1.69 to 2.82		
15 Vinyl Chloride	210	MK	ppbv	3.013	2.67	12.8	20	2.14 to 3.20	25	2.00 to 3.34		
16 cis-1,3-Dichloropropene	210	MK	ppbv	2.071	2.12	-2.3	20	1.70 to 2.54	25	1.59 to 2.65		
17 Trans-1,3-dichloropropene	210	MK	ppbv	2.275	2.27	0.2	20	1.82 to 2.72	25	1.70 to 2.84		

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



This evaluation report is being submitted for:

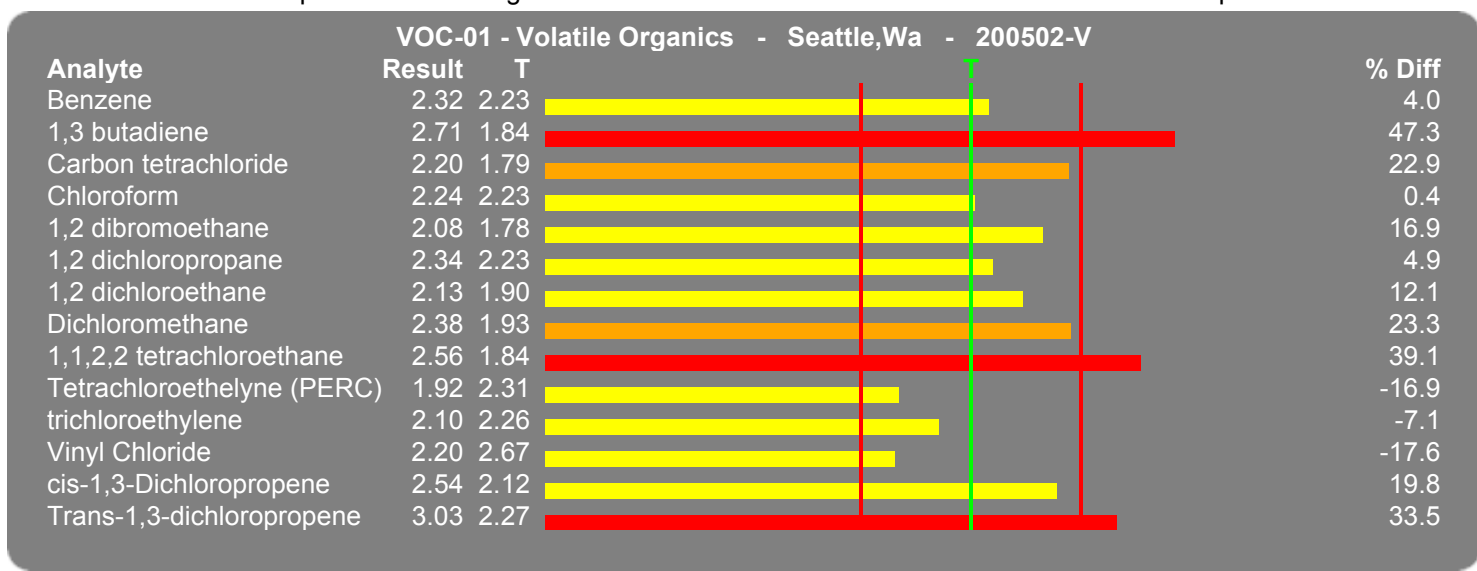
Seattle, Wa
 Attention: John Williamson
 CEE Department Sloan Hall, Room 101
 Washington State University
 Pullman, WA, 99164-2910

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Seattle, Wa - 200502-V

Analyte	Method	Description	Analyst	Units	Reported Assigned		% Diff	Warn Limits		Accept Limits		Evaluation
					Value	Value (T)		+/-%	Range	+/-%	Range	
1 Benzene	TO-15	EILIPY	ppbv	2.32	2.23	4.0	20	1.78 to 2.68	25	1.67 to 2.79		
2 1,3 butadiene	TO-15	EILIPY	ppbv	2.71	1.84	47.3	20	1.47 to 2.21	25	1.38 to 2.30	> 25%	
3 Carbon tetrachloride	TO-15	EILIPY	ppbv	2.2	1.79	22.9	20	1.43 to 2.15	25	1.34 to 2.24	WARNING	
4 Chloroform	TO-15	EILIPY	ppbv	2.24	2.23	0.4	20	1.78 to 2.68	25	1.67 to 2.79		
5 1,2 dibromoethane	TO-15	EILIPY	ppbv	2.08	1.78	16.9	20	1.42 to 2.14	25	1.34 to 2.23		
8 1,2 dichloropropane	TO-15	EILIPY	ppbv	2.34	2.23	4.9	20	1.78 to 2.68	25	1.67 to 2.79		
9 1,2 dichloroethane	TO-15	EILIPY	ppbv	2.13	1.90	12.1	20	1.52 to 2.28	25	1.42 to 2.38		
11 Dichloromethane	TO-15	EILIPY	ppbv	2.38	1.93	23.3	20	1.54 to 2.32	25	1.45 to 2.41	WARNING	
12 1,1,2,2 tetrachloroethane	TO-15	EILIPY	ppbv	2.56	1.84	39.1	20	1.47 to 2.21	25	1.38 to 2.30	> 25%	
13 Tetrachloroethelyne (PERC)	TO-15	EILIPY	ppbv	1.92	2.31	-16.9	20	1.85 to 2.77	25	1.73 to 2.89		
14 trichloroethylene	TO-15	EILIPY	ppbv	2.1	2.26	-7.1	20	1.81 to 2.71	25	1.69 to 2.82		
15 Vinyl Chloride	TO-15	EILIPY	ppbv	2.2	2.67	-17.6	20	2.14 to 3.20	25	2.00 to 3.34		
16 cis-1,3-Dichloropropene	TO-15	EILIPY	ppbv	2.54	2.12	19.8	20	1.70 to 2.54	25	1.59 to 2.65		
17 Trans-1,3-dichloropropene	TO-15	EILIPY	ppbv	3.03	2.27	33.5	20	1.82 to 2.72	25	1.70 to 2.84	> 25%	

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ Not Evaluated
 ■ Not Reported



PTNATTS PE Report

8/1/2005



Study: 200502-V

Close Date: 07/21/2005

Lab Code: 10-02-V

This evaluation report is being submitted for:

La Grande, OR
 Attention: Gregg Lande
 Oregon DEQ Lab
 1927 13th Street
 Portland, OR, 97201

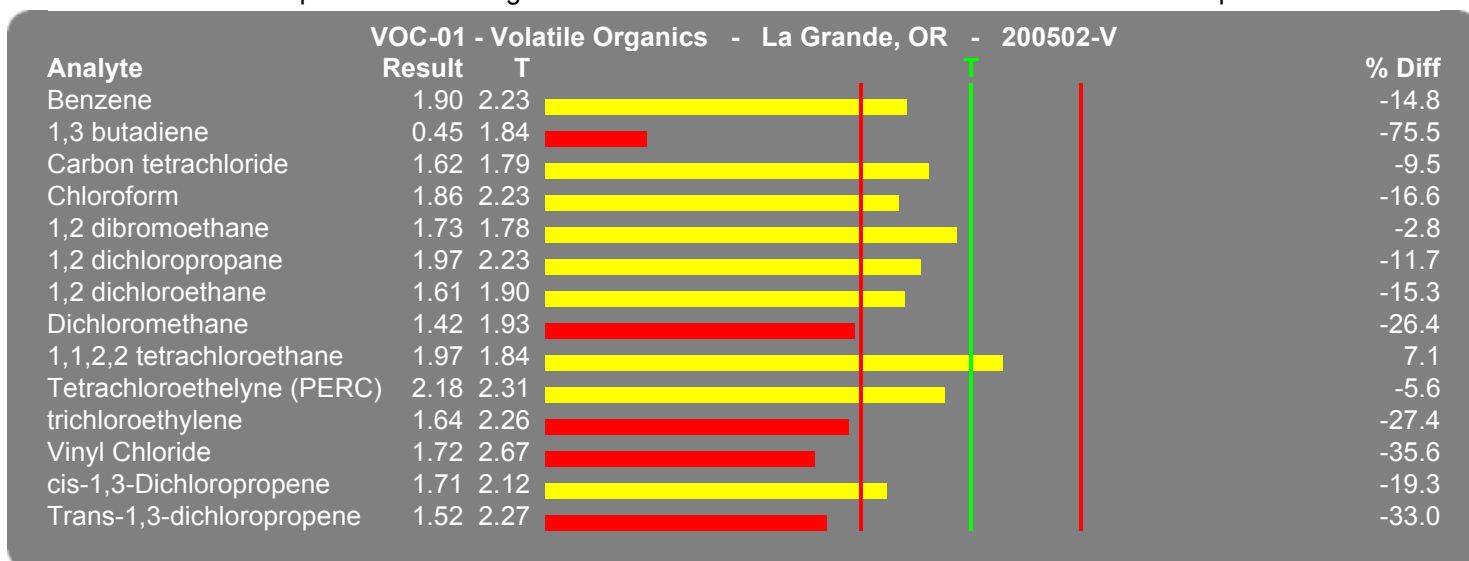
503-229-6411

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
 (919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - La Grande, OR - 200502-V

Analyte	Method	Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	TO-15	PWS		ppbv	1.9	2.23	-14.8	20 1.78 to 2.68	25 1.67 to 2.79	
2 1,3 butadiene	TO-15	PWS		ppbv	0.45	1.84	-75.5	20 1.47 to 2.21	25 1.38 to 2.30	< 25%
3 Carbon tetrachloride	TO-15	PWS		ppbv	1.62	1.79	-9.5	20 1.43 to 2.15	25 1.34 to 2.24	
4 Chloroform	TO-15	PWS		ppbv	1.86	2.23	-16.6	20 1.78 to 2.68	25 1.67 to 2.79	
5 1,2 dibromoethane	TO-15	PWS		ppbv	1.73	1.78	-2.8	20 1.42 to 2.14	25 1.34 to 2.23	
8 1,2 dichloropropane	TO-15	PWS		ppbv	1.97	2.23	-11.7	20 1.78 to 2.68	25 1.67 to 2.79	
9 1,2 dichloroethane	TO-15	PWS		ppbv	1.61	1.90	-15.3	20 1.52 to 2.28	25 1.42 to 2.38	
11 Dichloromethane	TO-15	PWS		ppbv	1.42	1.93	-26.4	20 1.54 to 2.32	25 1.45 to 2.41	< 25%
12 1,1,2,2 tetrachloroethane	TO-15	PWS		ppbv	1.97	1.84	7.1	20 1.47 to 2.21	25 1.38 to 2.30	
13 Tetrachloroethelyne (PERC)	TO-15	PWS		ppbv	2.18	2.31	-5.6	20 1.85 to 2.77	25 1.73 to 2.89	
14 trichloroethylene	TO-15	PWS		ppbv	1.64	2.26	-27.4	20 1.81 to 2.71	25 1.69 to 2.82	< 25%
15 Vinyl Chloride	TO-15	PWS		ppbv	1.72	2.67	-35.6	20 2.14 to 3.20	25 2.00 to 3.34	< 25%
16 cis-1,3-Dichloropropene	TO-15	PWS		ppbv	1.71	2.12	-19.3	20 1.70 to 2.54	25 1.59 to 2.65	
17 Trans-1,3-dichloropropene	TO-15	PWS		ppbv	1.52	2.27	-33.0	20 1.82 to 2.72	25 1.70 to 2.84	< 25%

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



This evaluation report is being submitted for:

Chicago, St. Louis, Bountiful, Gr Junct.

Attention: Julie Swift

601 Keystone Park drive

Suite 700

Durham, NC, 17713

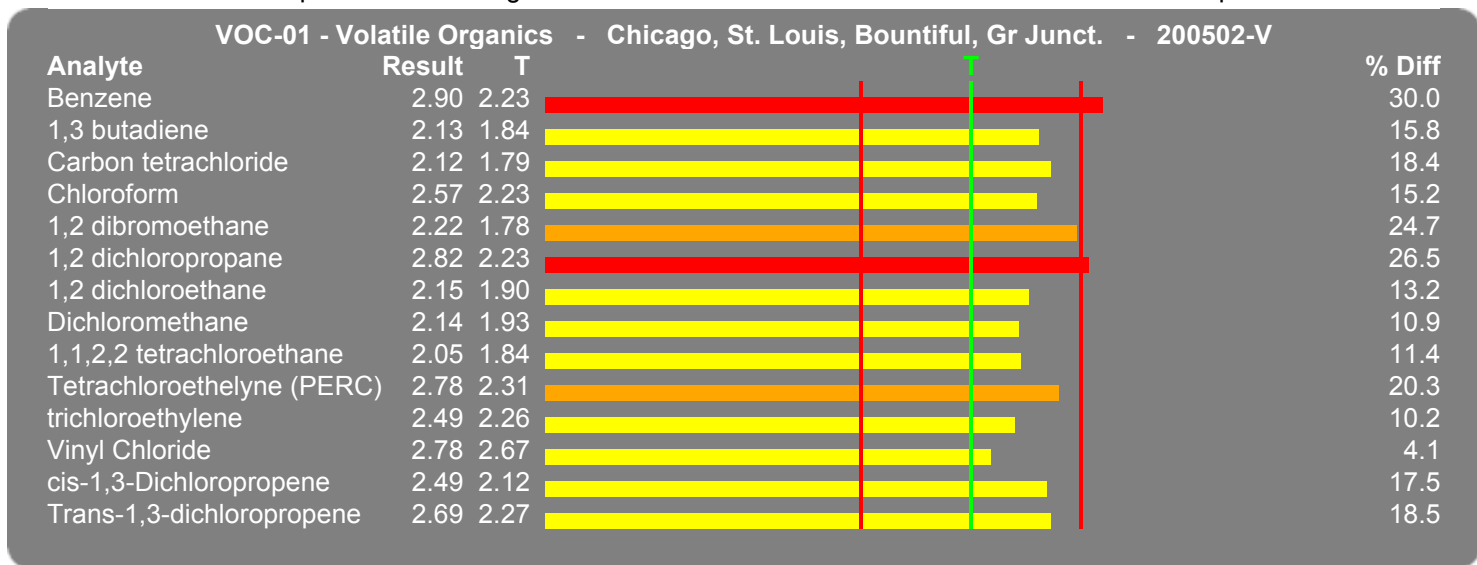
919-468-7924

Please contact Ken Caviston at Alion Life and Environmental Sciences if you have any questions about this report.
(919) 405-3140 - KCaviston@AlionScience.com

VOC-01 - Volatile Organics - Chicago, St. Louis, Bountiful, Gr Junct. - 200502-V

Analyte	Method Description	Analyst	Units	Reported Value	Assigned Value (T)	% Diff	Warn Limits +/--% Range	Accept Limits +/--% Range	Evaluation
1 Benzene	TO-15	M.F.	ppbv	2.9	2.23	30.0	20 1.78 to 2.68	25 1.67 to 2.79	> 25%
2 1,3 butadiene	TO-15	M.F.	ppbv	2.13	1.84	15.8	20 1.47 to 2.21	25 1.38 to 2.30	
3 Carbon tetrachloride	TO-15	M.F.	ppbv	2.12	1.79	18.4	20 1.43 to 2.15	25 1.34 to 2.24	
4 Chloroform	TO-15	M.F.	ppbv	2.57	2.23	15.2	20 1.78 to 2.68	25 1.67 to 2.79	
5 1,2 dibromoethane	TO-15	M.F.	ppbv	2.22	1.78	24.7	20 1.42 to 2.14	25 1.34 to 2.23	WARNING
8 1,2 dichloropropane	TO-15	M.F.	ppbv	2.82	2.23	26.5	20 1.78 to 2.68	25 1.67 to 2.79	> 25%
9 1,2 dichloroethane	TO-15	M.F.	ppbv	2.15	1.90	13.2	20 1.52 to 2.28	25 1.42 to 2.38	
11 Dichloromethane	TO-15	M.F.	ppbv	2.14	1.93	10.9	20 1.54 to 2.32	25 1.45 to 2.41	
12 1,1,2,2 tetrachloroethane	TO-15	M.F.	ppbv	2.05	1.84	11.4	20 1.47 to 2.21	25 1.38 to 2.30	
13 Tetrachloroethelyne (PERC)	TO-15	M.F.	ppbv	2.78	2.31	20.3	20 1.85 to 2.77	25 1.73 to 2.89	WARNING
14 trichloroethylene	TO-15	M.F.	ppbv	2.49	2.26	10.2	20 1.81 to 2.71	25 1.69 to 2.82	
15 Vinyl Chloride	TO-15	M.F.	ppbv	2.78	2.67	4.1	20 2.14 to 3.20	25 2.00 to 3.34	
16 cis-1,3-Dichloropropene	TO-15	M.F.	ppbv	2.49	2.12	17.5	20 1.70 to 2.54	25 1.59 to 2.65	
17 Trans-1,3-dichloropropene	TO-15	M.F.	ppbv	2.69	2.27	18.5	20 1.82 to 2.72	25 1.70 to 2.84	

Accepted Warning Outside Outlier NE Not Evaluated NR Not Reported



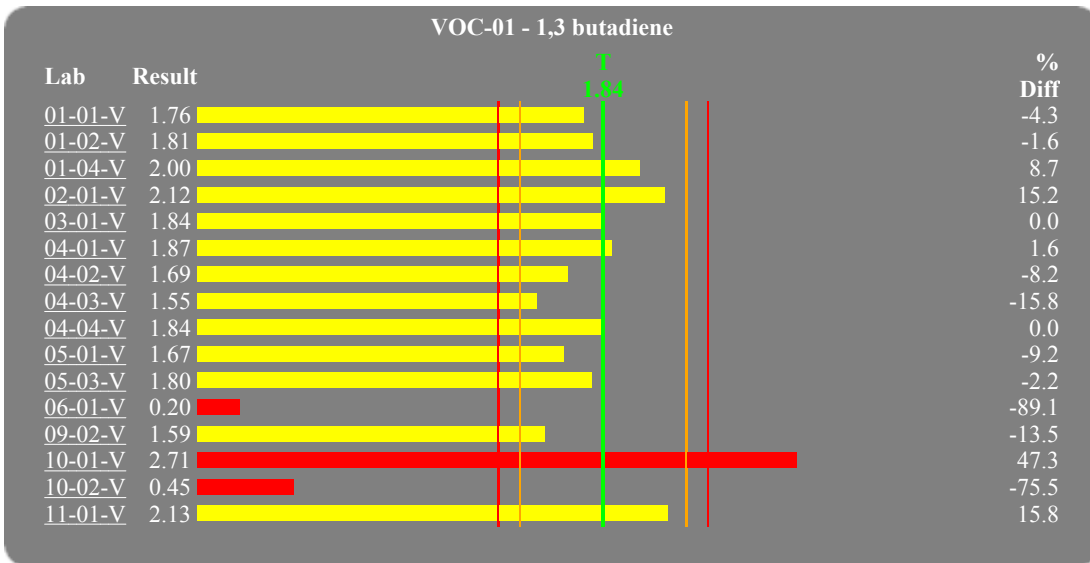
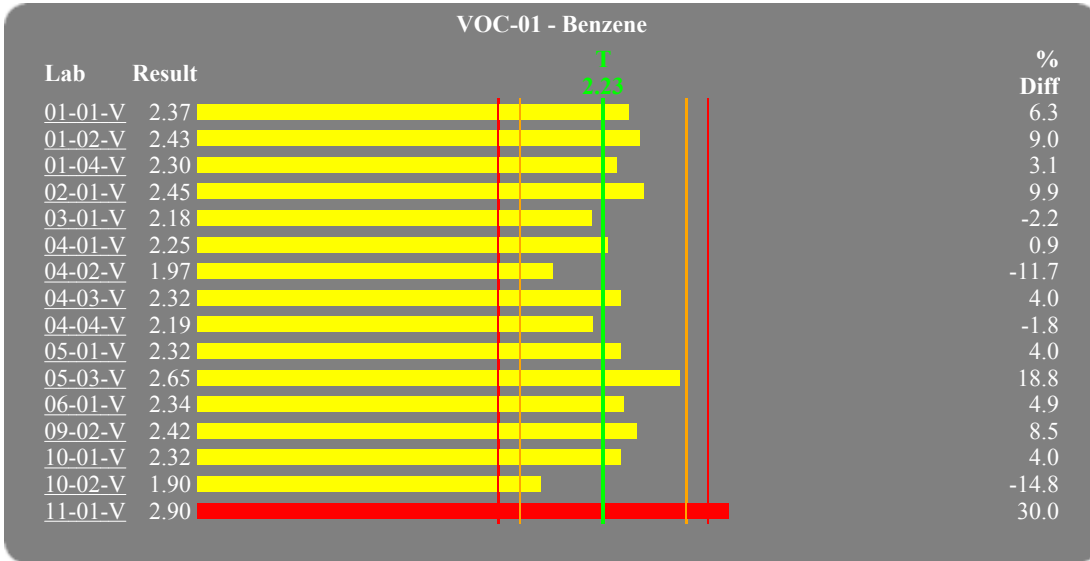
Analyte Results for a Specific Study

10/11/2005



Study Number: 200502-V

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



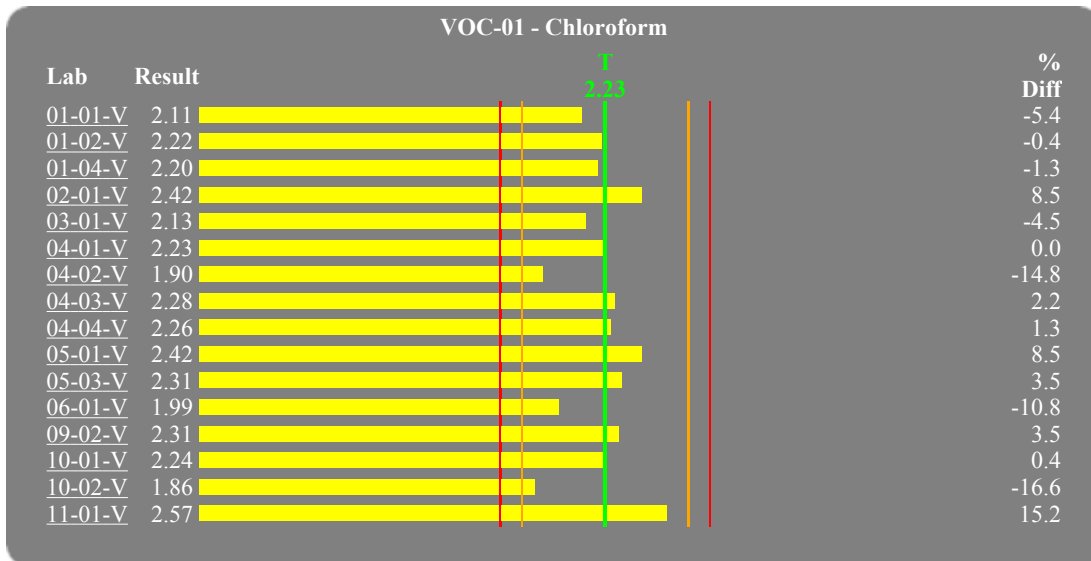
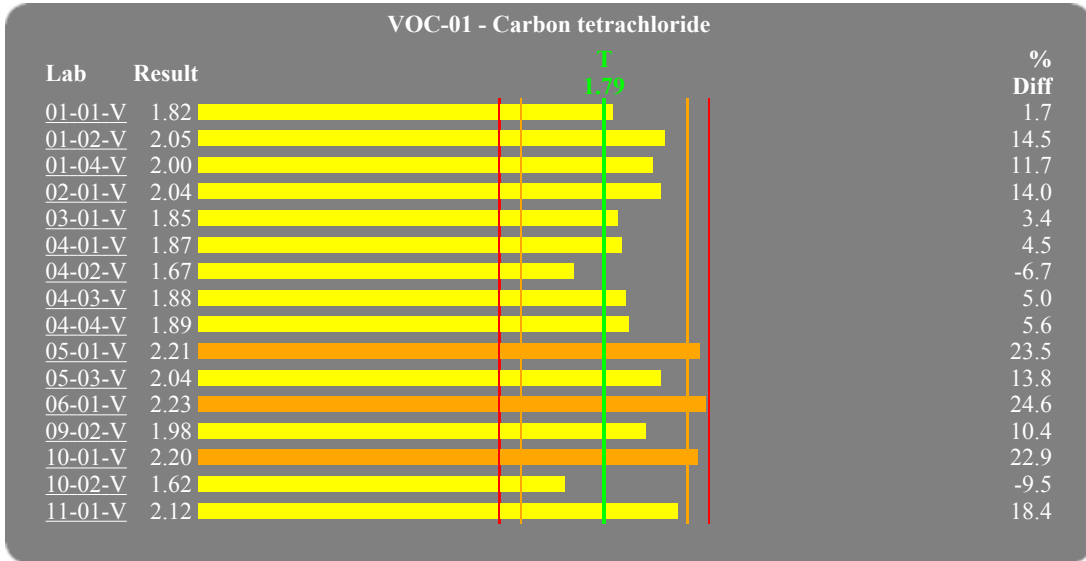
Analyte Results for a Specific Study

10/11/2005



Study Number: 200502-V

■ Accepted
 ■ Warning
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 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported



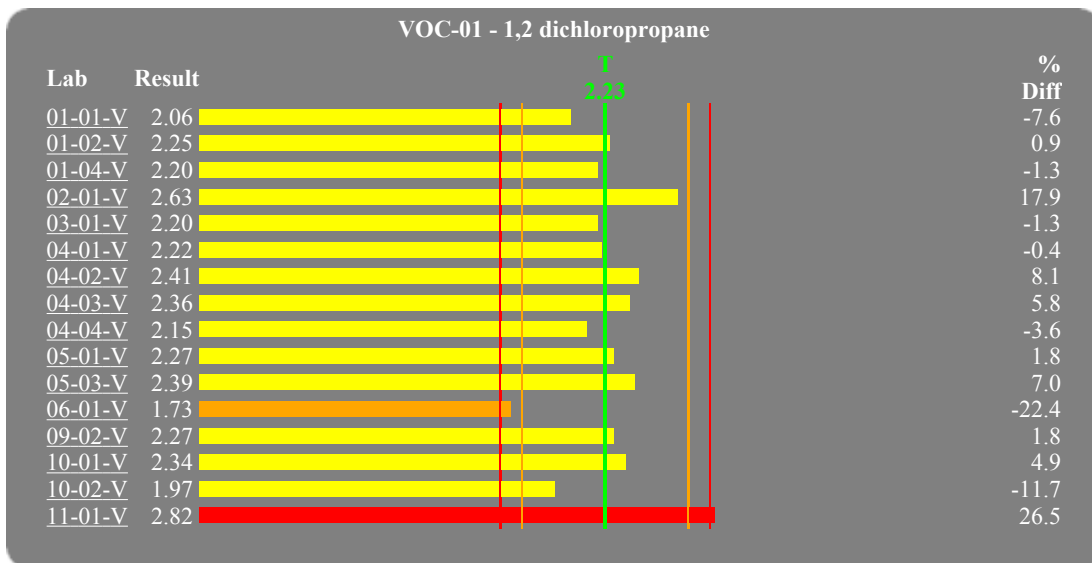
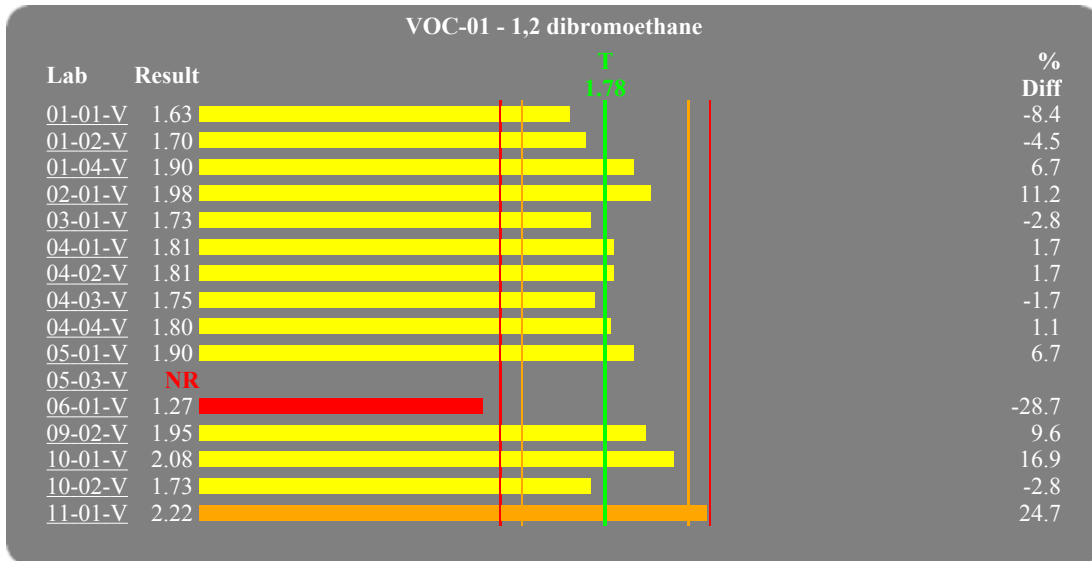
Analyte Results for a Specific Study

10/11/2005



Study Number: 200502-V

■ Accepted
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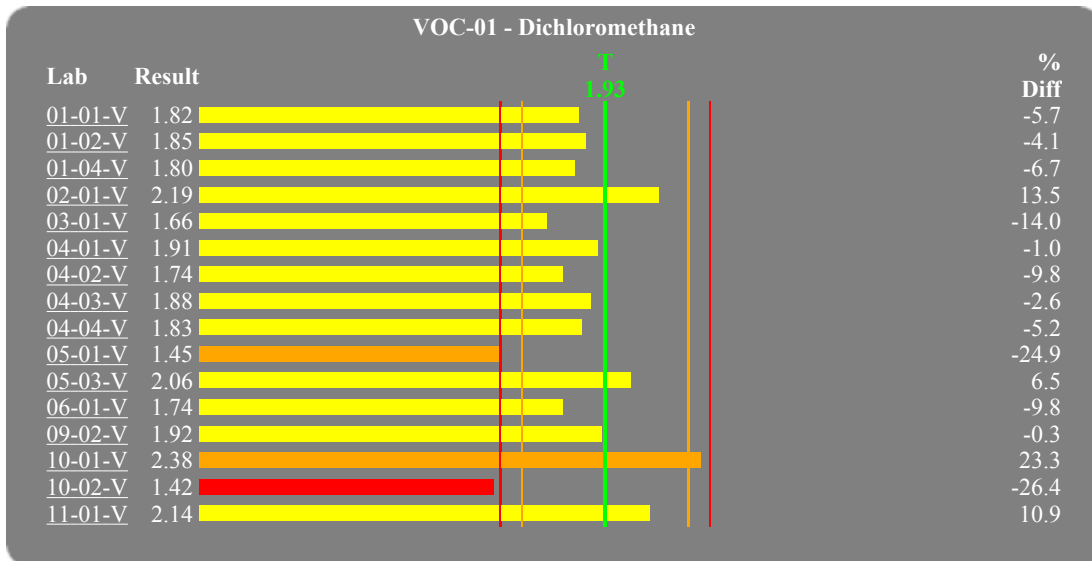
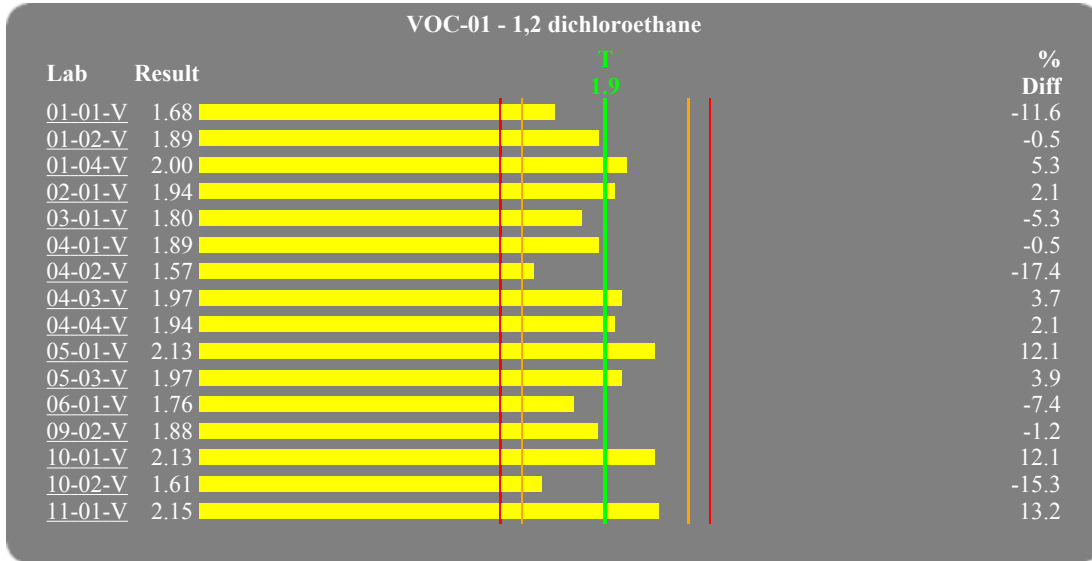
Analyte Results for a Specific Study

10/11/2005



Study Number: 200502-V

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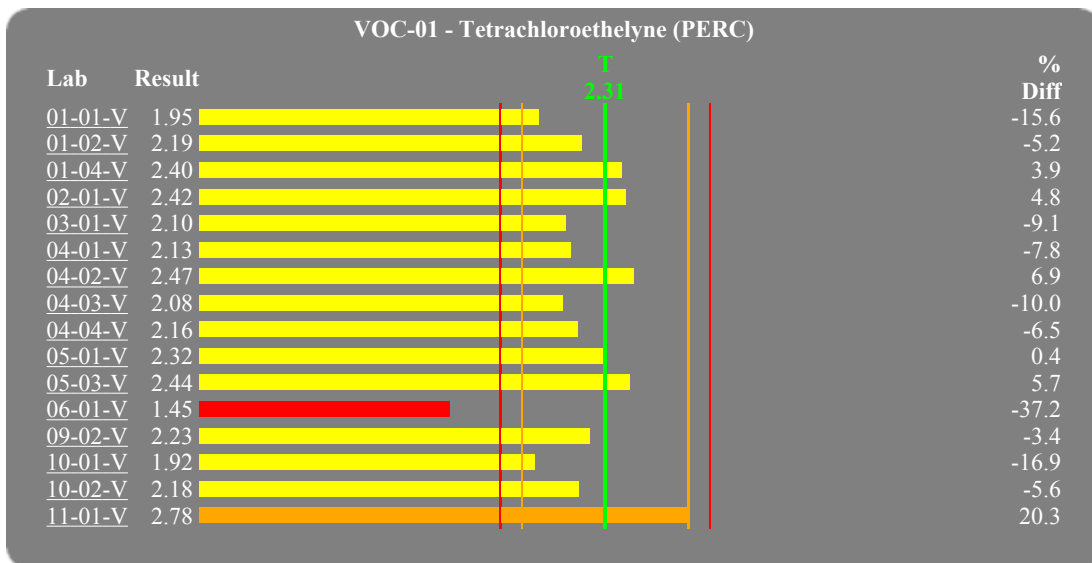
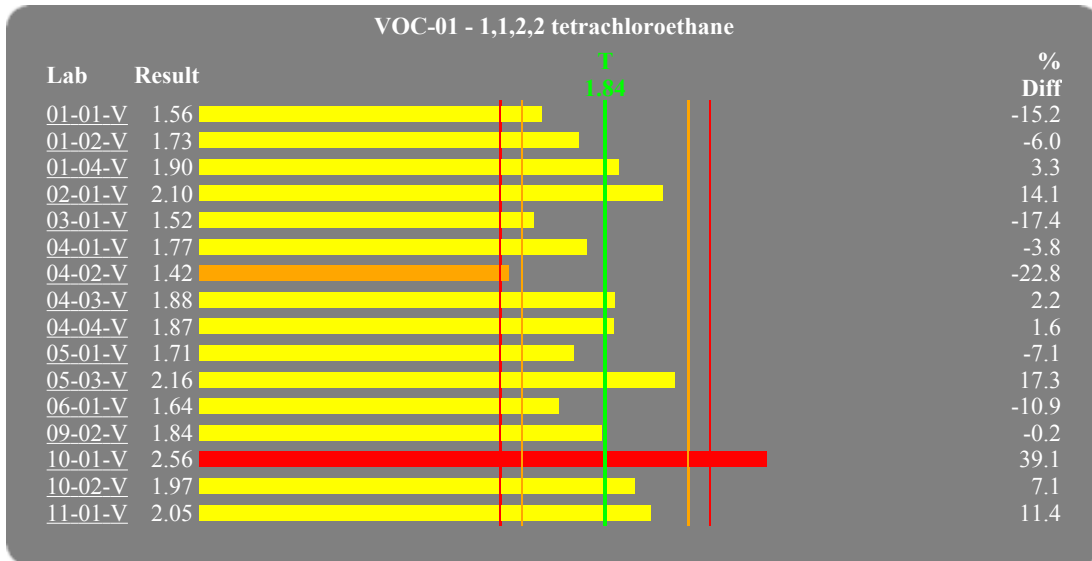
Analyte Results for a Specific Study

10/11/2005



Study Number: 200502-V

■ Accepted
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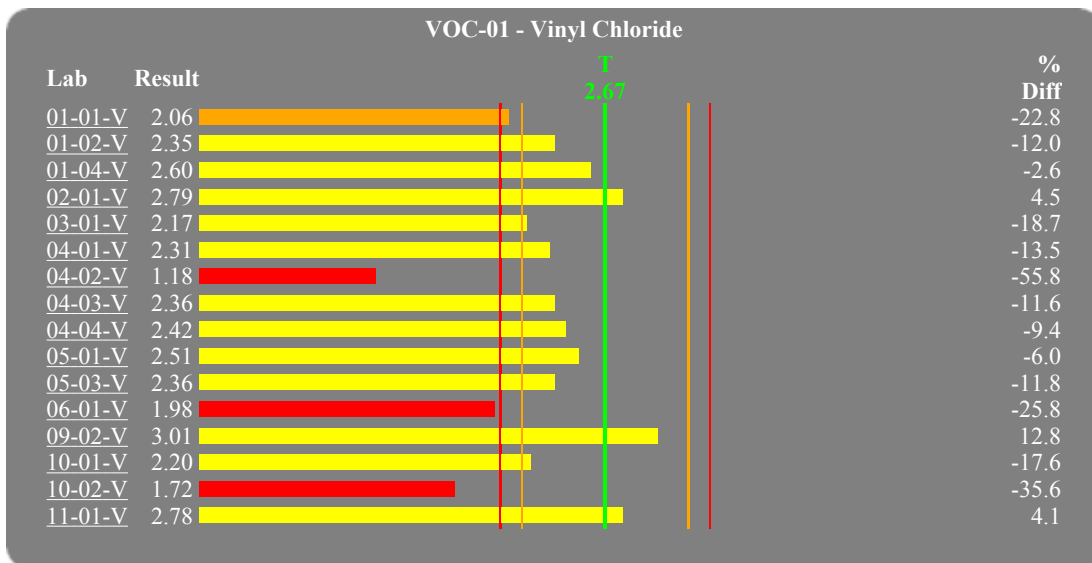
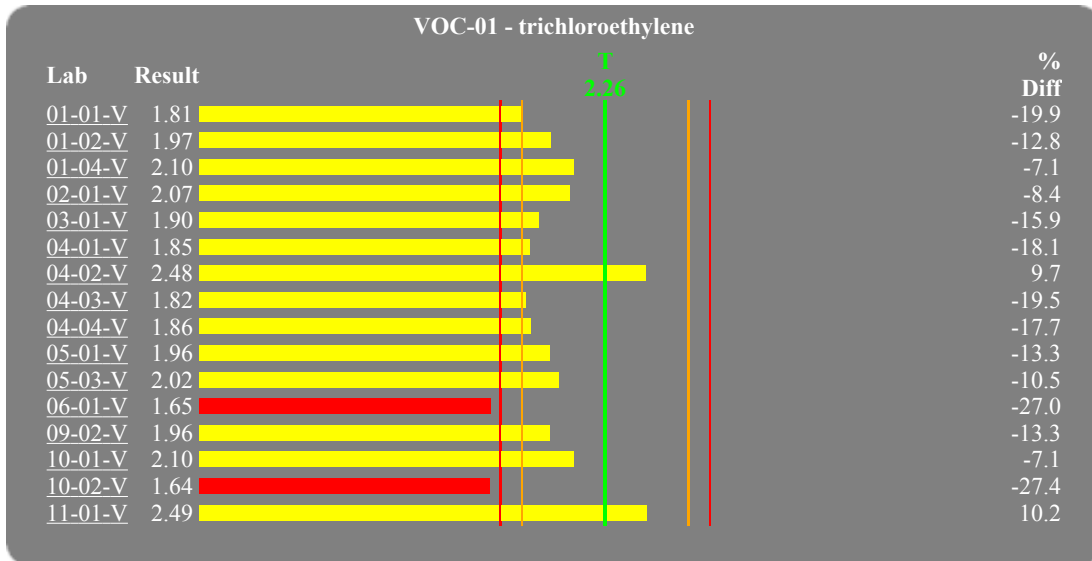
Analyte Results for a Specific Study

10/11/2005



Study Number: 200502-V

■ Accepted
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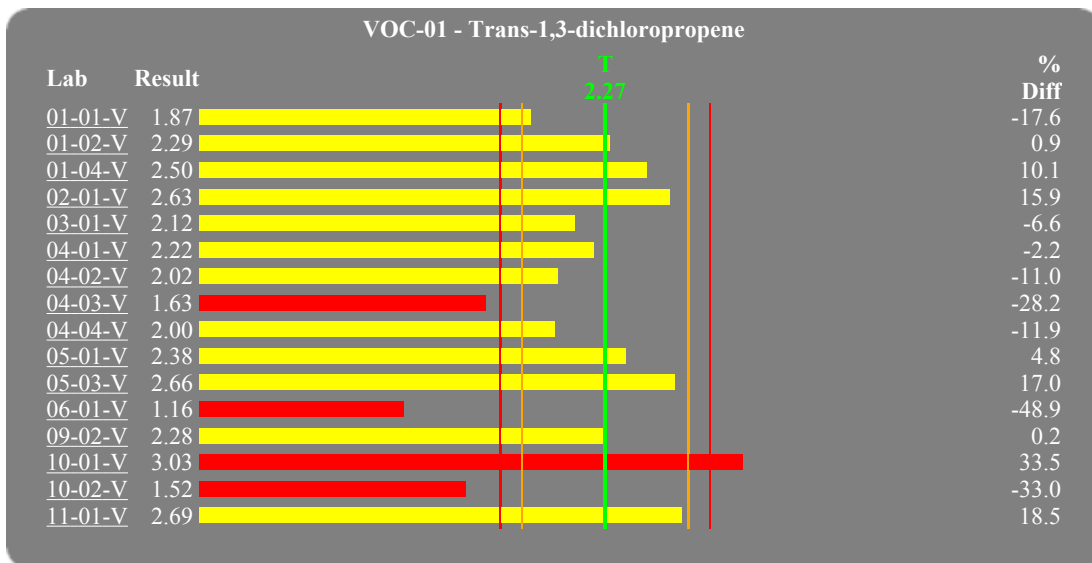
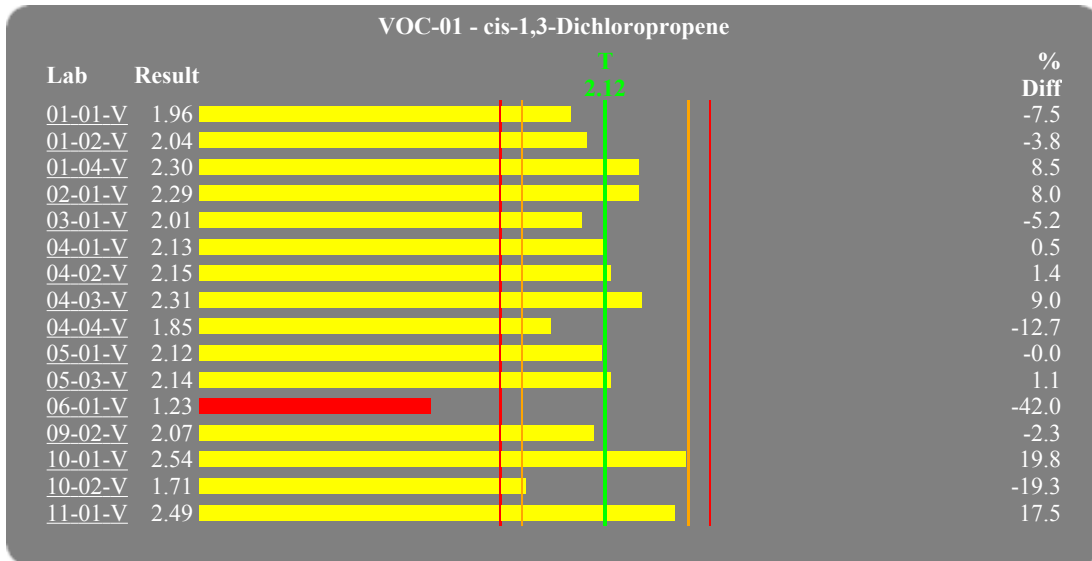
Analyte Results for a Specific Study

10/11/2005



Study Number: 200502-V

■ Accepted
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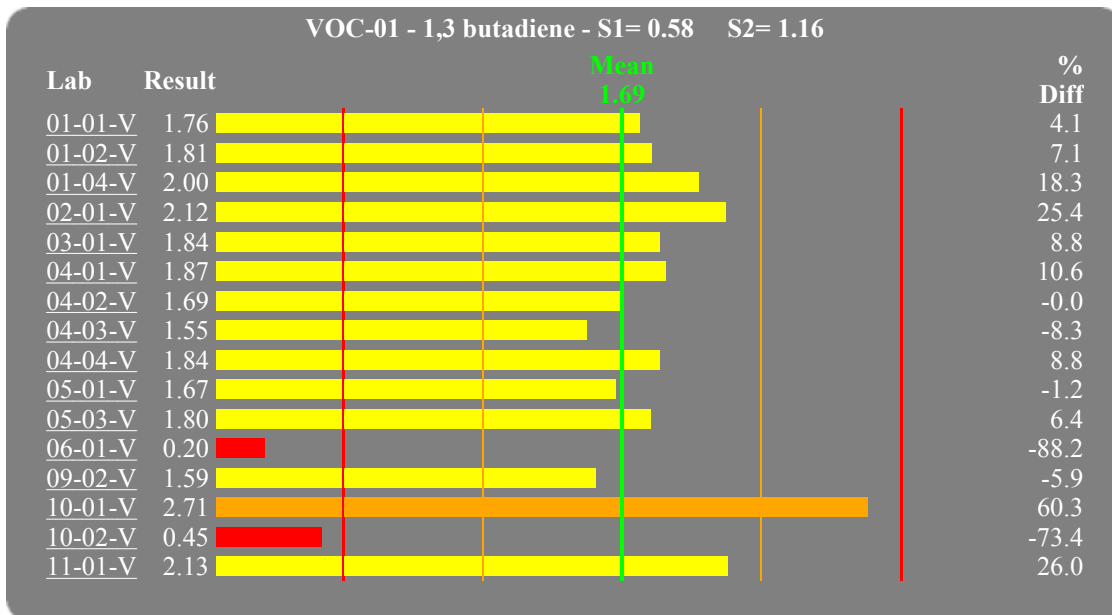
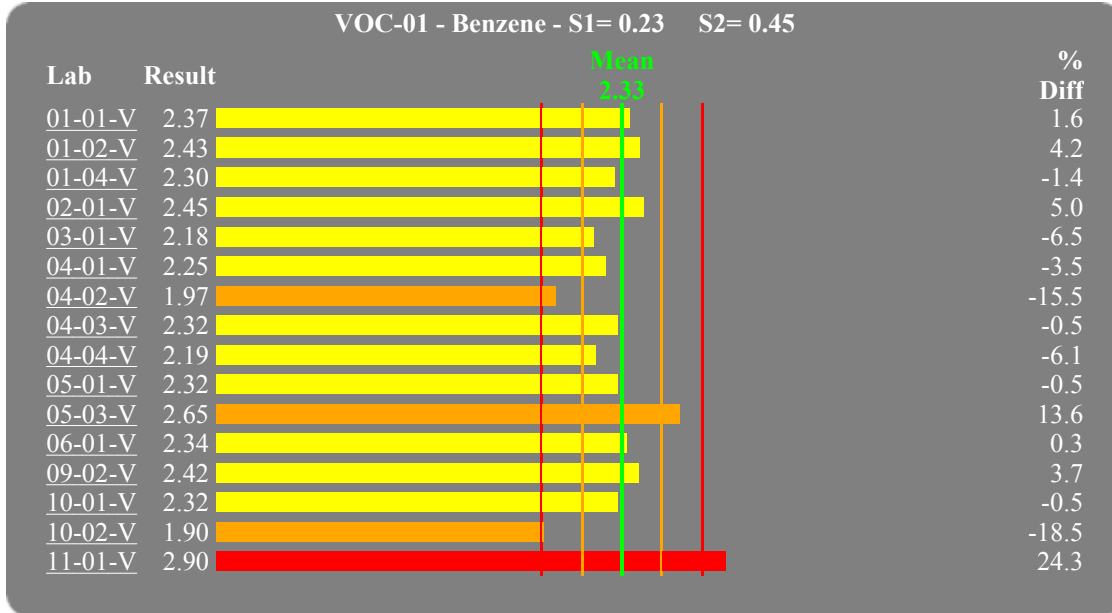
Analyte Results Versus the Study Mean

10/25/2005



Study Number: 200502-V

■ Accepted
 ■ Warning
 ■ Outside
 ■ Outlier
 ■ NE Not Evaluated
 ■ NR Not Reported
 ■ NI No Information



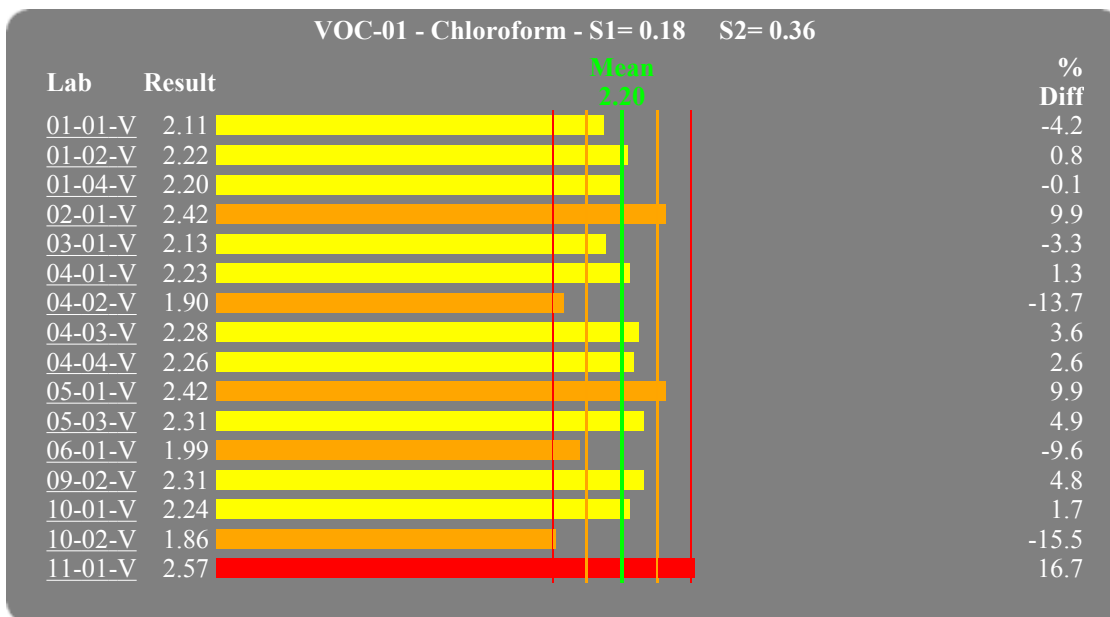
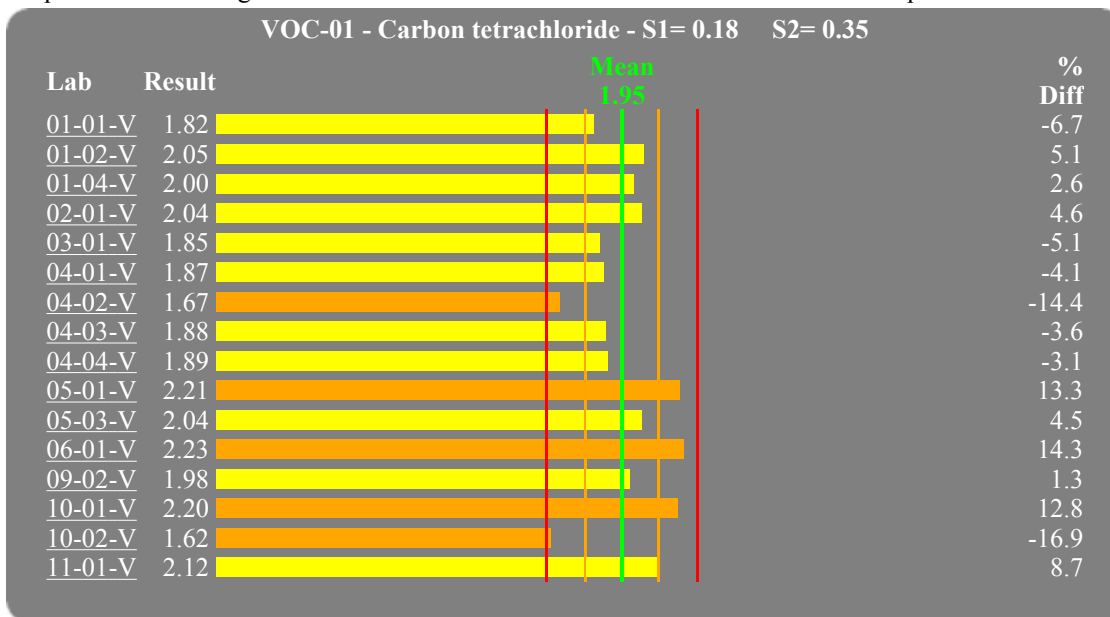
Analyte Results Versus the Study Mean

10/25/2005



Study Number: 200502-V

■ Accepted
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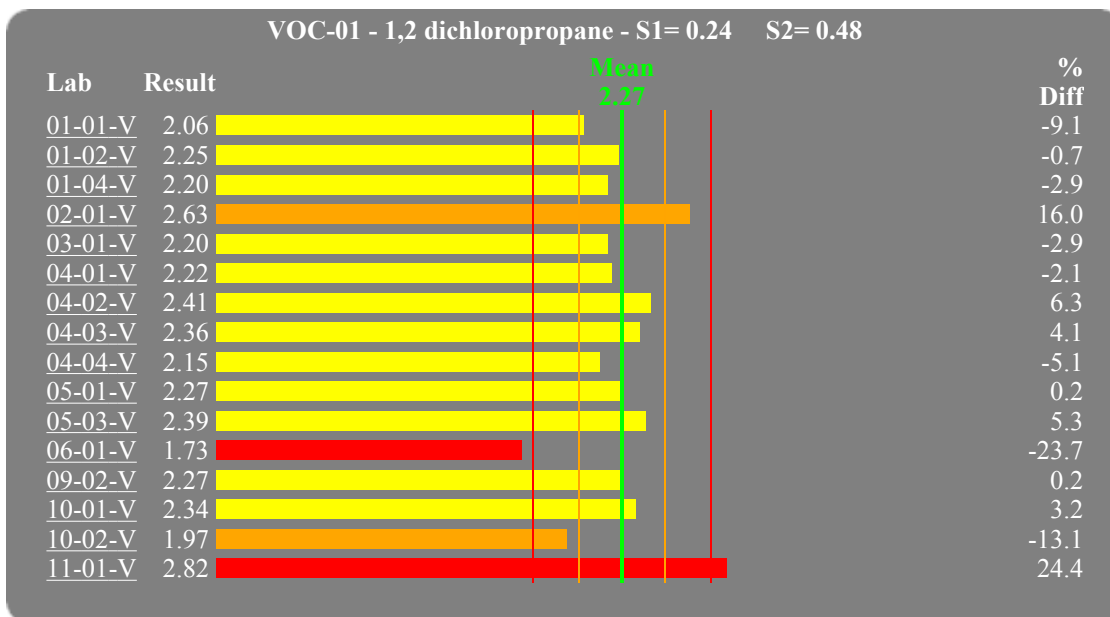
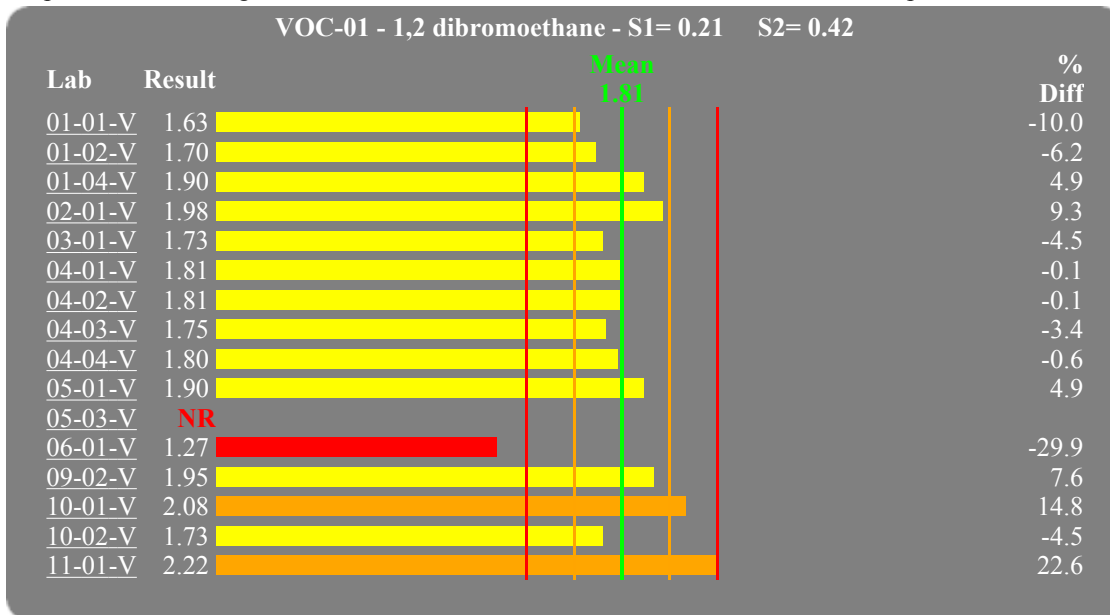
Analyte Results Versus the Study Mean

10/25/2005



Study Number: 200502-V

■ Accepted
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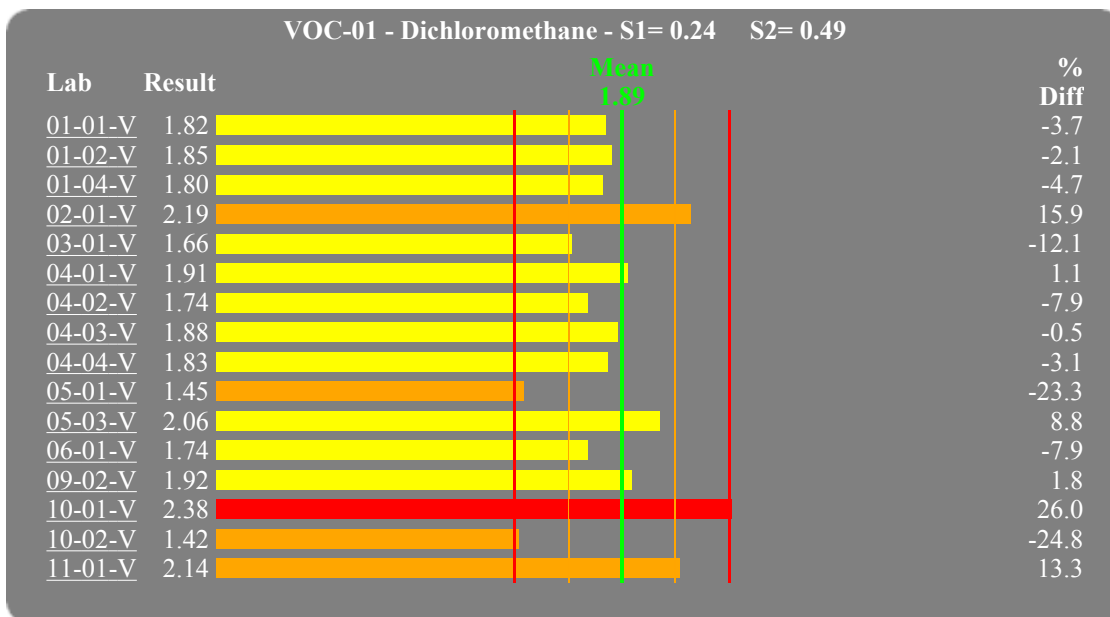
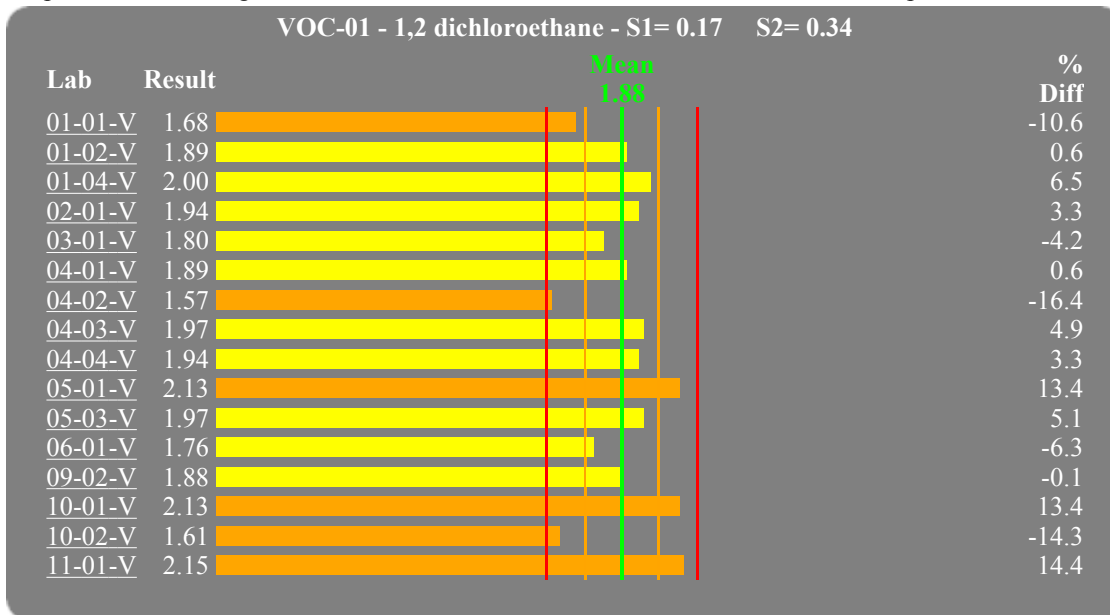
Analyte Results Versus the Study Mean

10/25/2005



Study Number: 200502-V

■ Accepted
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 ■ NR Not Reported
 ■ NI No Information



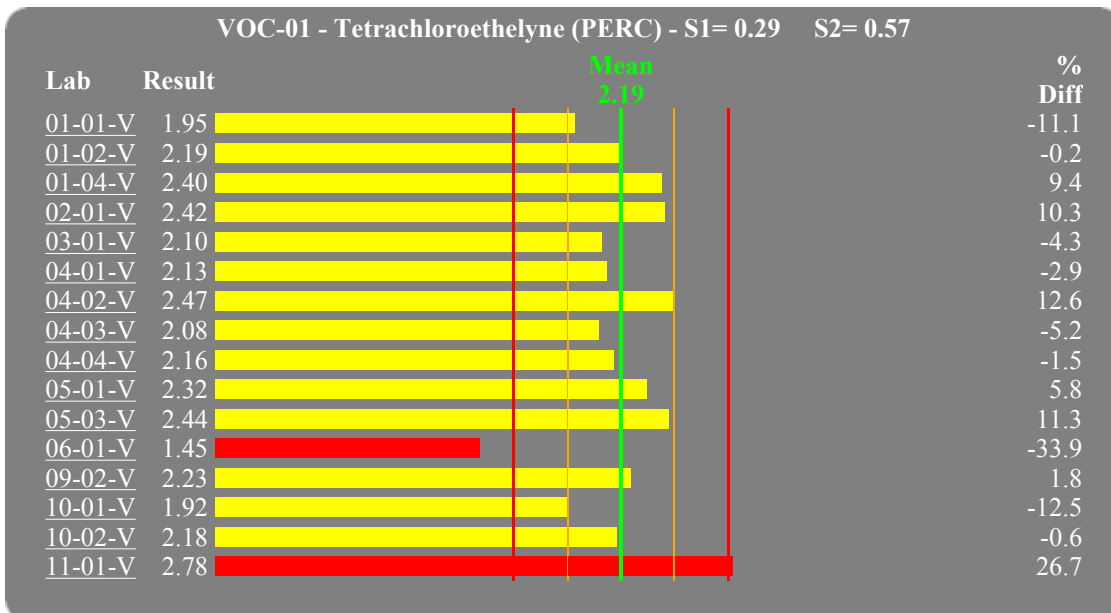
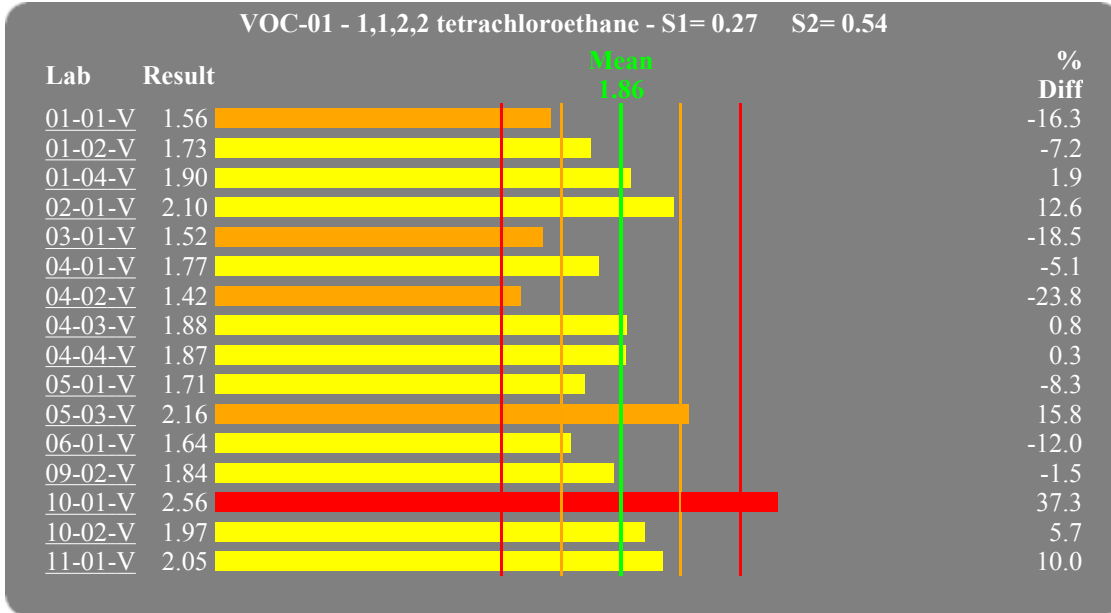
Analyte Results Versus the Study Mean

10/25/2005



Study Number: 200502-V

■ Accepted
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 ■ NI No Information



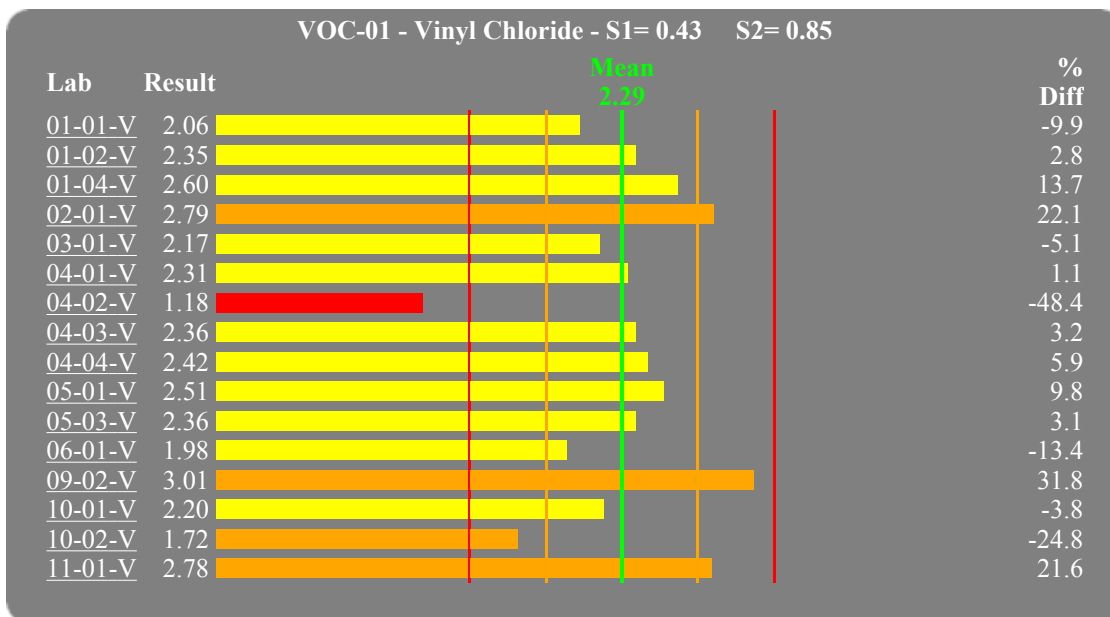
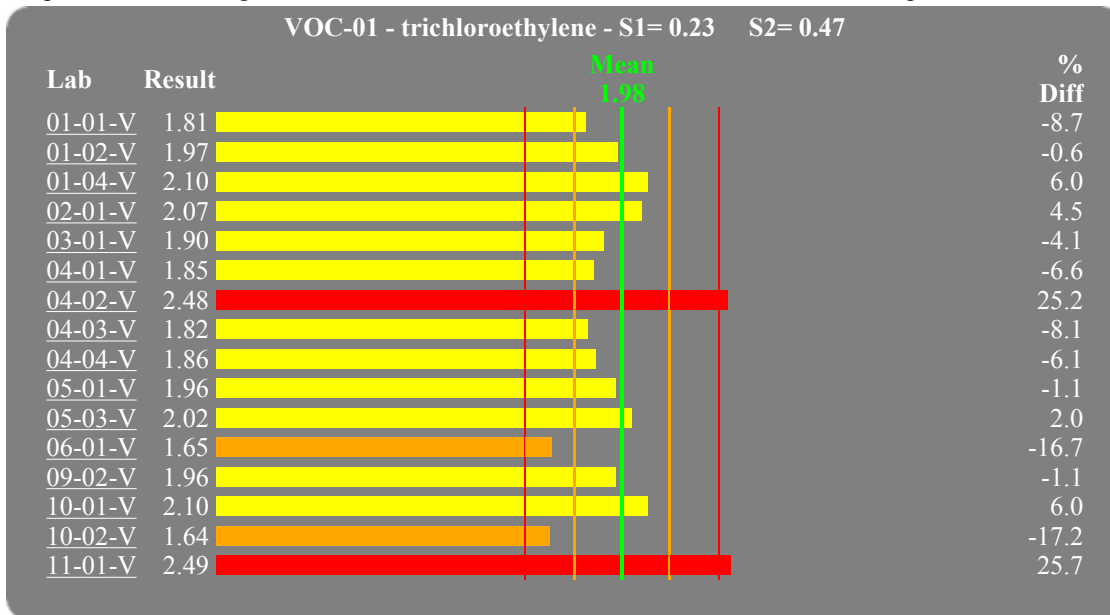
Analyte Results Versus the Study Mean

10/25/2005



Study Number: 200502-V

■ Accepted
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 ■ Outside
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 ■ NR Not Reported
 ■ NI No Information



Analyte Results Versus the Study Mean

10/25/2005



Study Number: 200502-V

■ Accepted
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