

March 11, 2005

Mr. Christopher Saari
Hydrogeologist
Northern Region Remediation and Redevelopment
State of Wisconsin Department of Natural Resources (WDNR)
Ashland Service Center
2501 Golf Course Road
Ashland, Wisconsin 54806

TRIENNIAL OFF-SITE GROUNDWATER SAMPLING RESULTS

December 2004 Event
Former DuPont Barksdale Works Site
(BRRTS #02-04-000156)
Barksdale, Wisconsin

Dear Mr. Saari:

Attached to this letter report are the final analytical results from the last off-site well sampling event for 2004, which was conducted in the vicinity of the Former DuPont Barksdale Works Site in December 2004. The field work and sample analysis were performed in accordance with the WDNR approved *Private Well Monitoring Proposal*, dated November 6, 2002, and amended during telephone conversations in December 2002.

This program was initiated to determine and confirm the extent of known affected private water drinking wells in the vicinity of the site, confirm the effectiveness of the carbon treatment systems, and monitor unaffected potable wells in close proximity to the site that do not have carbon treatment systems. The purpose of this off-site well sampling event was to sample the homes in the vicinity of the site that do not have carbon treatment systems in place and are not connected to the recently installed municipal water supply.

The original triennial program included eight unaffected residential wells that did not have carbon treatment systems in place. However, connections to the newly installed municipal water line have reduced the number of locations to five. As of March 1, 2005, four homes previously included in the monitoring program [Fire Call (FC) Numbers 30600 Nolander road, 72860 and 73280 of Highway (HWY) 13, and 73300 Bono Creek road] have been connected to the municipal water line, so the private drinking wells are no longer in use. Because of this fact, these homes will not be sampled again in the future. This leaves FC Numbers 30300, 30380 and 30490 Nolander road and 72730 HWY13 included in the program. In addition, FC Number 72790 HWY 13 was added to this event to confirm the August 2004 sampling results.

Per the 2002 agreement with WDNR, during the December 2004 event DuPont sampled the location(s) with historical volatile organic compound (VOC) detections. One potable well, FC No. 72790 HWY 13, was sampled. During previous sampling events, trace concentrations of several target VOCs were detected in the well; and, although it was suspected that laboratory contamination was the source, DuPont has continued to sample this well until the residential location was serviced by the municipal water line.

Samples for nitroaromatic/nitramine organics were collected at the inflow port (location closest to the well and before the carbon treatment system, if present) and the effluent port (if carbon treatment system was present) at these offsite wells. A total of 11 samples were collected during the December 2004 event, including quality assurance/quality control (QA/QC) samples (see Tables 1 and 2). SevernTrent Laboratories (STL) in Denver, Colorado performed the analysis.

DuPont has reviewed all of the laboratory data generated during the sampling event. In addition to the in-house verification, the data were submitted for independent data validation by Environmental Standards Inc. (ESI), in Valley Forge, Pennsylvania. Summaries of the December 2004 analytical results are presented in the attached tables. Figure 1 shows the sample locations for this event. The list of analytical results and the validation reports are included in Appendix A.

Nitroaromatic/Nitramine Organic Compounds

The following locations were sampled for nitroaromatic/nitramine compounds during this event:

- ❑ Two residential wells on HWY 13 (FC Nos. 72730 and 72790)
- ❑ Three residential wells on Nolander Road (FC Nos. 30300, 30380, and 30490)

Of the areas listed above, no residential wells had historical detections. Only one location (FC No. 72790 of HWY 13) had a carbon treatment system present but no historical detections. During this sampling event, no new detections of nitroaromatic/nitramine organic compounds were found (see Table 1).

VOCs

As per the amended 2002 *Private Monitoring Well Proposal*, off-site monitoring wells that have historical detections of VOCs are required to be monitored. One residential well on Highway 13 was sampled for VOCs at the inflow port.

At FC No. 72790 on HWY 13, several target volatiles were detected at trace concentrations; however, since the same compounds were reported at similar levels in the trip blank and laboratory method blank samples, these detections were disqualified during data validation (see Appendix A). This home, which was formerly connected to this well, is now connected to municipal water line, so no additional sampling will need to be completed in the future.

Results Summary/Conclusions

Results of the December 2004 off-site well sampling indicate no nitroaromatic/nitramine organic compounds or VOCs were detected at the homes that were sampled. With no new detections

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identified in the wells that surround the site, the full extent of affected residential wells appears to have been identified.

Upon completion of the municipal water line in 2005, DuPont will work with the WDNR to develop a new potable well monitoring proposal for future sampling, if requested, in the vicinity of the former Barksdale site.

If you have any questions regarding this data report, please call either me (502-217-1531) or Mr. Cary Pooler (502-217-1534).

Sincerely,

Bradley S. Nave
Project Director
DuPont Corporate Remediation Group

Enclosures:

Table 1	Summary of Nitroaromatic/Nitramine Organic Results – December 2004
Table 2	Summary of Wisconsin Regulated VOC Results – December 2004
Figure 1	December 2004 Nitroaromatic/Nitramine and Volatile Organics Sample Results
Appendix A	Barksdale Works – December 2004 Residential Well Sampling

cc: P. Bretting, C.G. Bretting Mfg., Inc.
H. Nehls-Lowe, Wisconsin DHFS
A. Lindsey, Bayfield County Health Dept.
C. Pooler, URSD
M. Turco, URSD
File (paper): 7592
File (electronic): Project CD 7592: Reports/BAR December 2004 Off-Site GW Sampling Results_final.doc

TABLES

Table 1
SUMMARY OF NITROAROMATIC/NITRAMINE ORGANIC RESULTS - DECEMBER 2004

Analyte	units	Sample ID Date WES*	30300N-INFLOW 12/16/04	30380N-INFLOW 12/16/04	30490N-INFLOW 12/17/04	72730H-INFLOW 12/16/04	72790H-INFLOW 12/16/04	72790H-EFFLUENT 12/16/04
1,3,5-TRINITROBENZENE	ug/l	---	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)
1,3-DINITROBENZENE	ug/l	---	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)
3-NITROTOLUENE	ug/l	---	ND (0.064)	ND (0.064)	ND (0.064)	ND (0.064)	ND (0.064)	ND (0.064)
4-NITROTOLUENE	ug/l	---	ND (0.061)	ND (0.061)	ND (0.061)	ND (0.061)	ND (0.061)	ND (0.061)
2,4,6-TRINITROTOLUENE	ug/l	---	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)
2,4-DINITROTOLUENE	ug/l	0.05	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
2,6-DINITROTOLUENE	ug/l	0.05	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)
2-AMINO-4,6-DINITROTOLUENE	ug/l	---	ND (0.017) UJ	ND (0.017) UJ	ND (0.017) UJ	ND (0.017) UJ	ND (0.017) UJ	ND (0.017) UJ
2-NITROTOLUENE	ug/l	---	ND (0.057)	ND (0.057)	ND (0.057)	ND (0.057)	ND (0.057)	ND (0.057)
4-AMINO-2,6-DINITROTOLUENE	ug/l	---	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)
NITROBENZENE	ug/l	---	ND (0.036) UJ	ND (0.036) UJ	ND (0.036) UJ	ND (0.036) UJ	ND (0.036) UJ	ND (0.036) UJ
NITROGLYCERIN	ug/l	---	ND (0.042)	ND (0.042)	ND (0.042)	ND (0.042)	ND (0.042)	ND (0.042)
HMX	ug/l	---	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.017)
PETN	ug/l	---	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
RDX	ug/l	---	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
TETRYL	ug/l	---	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.017)

WES= Wisconsin Enforcement Standard

UJ: Not detected. Reporting limit may not be accurate or precise

Table 2
SUMMARY OF WISCONSIN REGULATED VOC'S RESULTS - DECEMBER 2004

Analyte	units	Sample ID Date WES*	72790H-INFLOW 12/16/04	TBLK1 12/16/04
1,1,1,2-TETRACHLOROETHANE	ug/l	70	ND (0.17)	ND (0.17)
1,1,1-TRICHLOROETHANE	ug/l	200	ND (0.18)	ND (0.18)
1,1,2,2-TETRACHLOROETHANE	ug/l	0.2	ND (0.16)	ND (0.16)
1,1,2-TRICHLOROETHANE	ug/l	5	ND (0.24)	ND (0.24)
1,1-DICHLOROETHANE	ug/l	850	ND (0.24)	ND (0.24)
1,1-DICHLOROETHENE	ug/l	7	ND (0.27)	ND (0.27)
1,2,3-TRICHLOROPROPANE	ug/l	60	ND (0.26)	ND (0.26)
1,2,4-TRIMETHYLBENZENE	ug/l	480	ND (0.28)	ND (0.28)
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	0.2	ND (0.63)	ND (0.63)
1,2-DIBROMOETHANE (EDB)	ug/l	0.05	ND (0.20)	ND (0.20)
1,2-DICHLOROETHANE	ug/l	5	ND (0.12)	ND (0.12)
1,2-DICHLOROETHENE	ug/l	70	ND (0.17)	ND (0.17)
1,2-DICHLOROPROPANE	ug/l	5	ND (0.17)	ND (0.17)
1,3,5-TRIMETHYLBENZENE	ug/l	480	ND (0.26)	ND (0.26)
1,3-DICHLOROPROPANE	ug/l	0.2	ND (0.17)	ND (0.17)
ACETONE	ug/l	100	ND (4.0) R	ND (4.0) R
BENZENE	ug/l	5	ND (0.15)	ND (0.15)
BROMODICHLOROMETHANE	ug/l	0.6	ND (0.15)	ND (0.15)
BROMOFORM	ug/l	4.4	ND (0.33)	ND (0.33)
CARBON DISULFIDE	ug/l	1000	0.44 U	0.36 J
CARBON TETRACHLORIDE	ug/l	5	ND (0.19)	ND (0.19)
CHLOROENZENE	ug/l	---	ND (0.19)	ND (0.19)
CHLORODIBROMOMETHANE	ug/l	60	ND (0.12)	ND (0.12)
CHLOROFORM	ug/l	6	ND (0.15)	ND (0.15)
DICHLORODIFLUOROMETHANE	ug/l	1000	ND (0.26)	ND (0.26)
ETHYL CHLORIDE	ug/l	400	ND (0.31)	ND (0.31)
ETHYLBENZENE	ug/l	700	ND (0.22)	ND (0.22)
METHYL BROMIDE	ug/l	10	ND (0.26)	ND (0.26)
METHYL CHLORIDE	ug/l	5	ND (0.25)	ND (0.25)
METHYL ETHYL KETONE	ug/l	460	1.5 U	0.77 J
METHYL ISOBUTYL KETONE	ug/l	500	ND (0.74)	ND (0.74)
METHYL TERTIARY BUTYL ETHER	ug/l	60	1.3 U	1.1 J
METHYLENE CHLORIDE	ug/l	5	ND (0.26)	ND (0.26)
STYRENE	ug/l	100	ND (0.17)	ND (0.17)
TETRACHLOROETHYLENE	ug/l	5	ND (0.20)	ND (0.20)
TOLUENE	ug/l	1000	ND (0.17)	ND (0.17)
TRICHLOROETHENE	ug/l	5	ND (0.19)	ND (0.19)
TRICHLOROFLUOROMETHANE	ug/l	---	ND (0.33)	ND (0.33)
VINYL CHLORIDE	ug/l	0.2	ND (0.28)	ND (0.28)
XYLENES	ug/l	1000	ND (0.45)	ND (0.45)
1,2,4-TRICHLOROBENZENE	ug/l	70	ND (0.32)	ND (0.32)
1,2-DICHLOROBENZENE	ug/l	600	ND (0.25)	ND (0.25)
1,3-DICHLOROBENZENE	ug/l	1250	ND (0.21)	ND (0.21)
1,4-DICHLOROBENZENE	ug/l	75	ND (0.20)	ND (0.20)
NAPHTHALENE	ug/l	40	ND (0.29)	ND (0.29)
HEXANE	ug/l	600	ND (0.26)	ND (0.26)

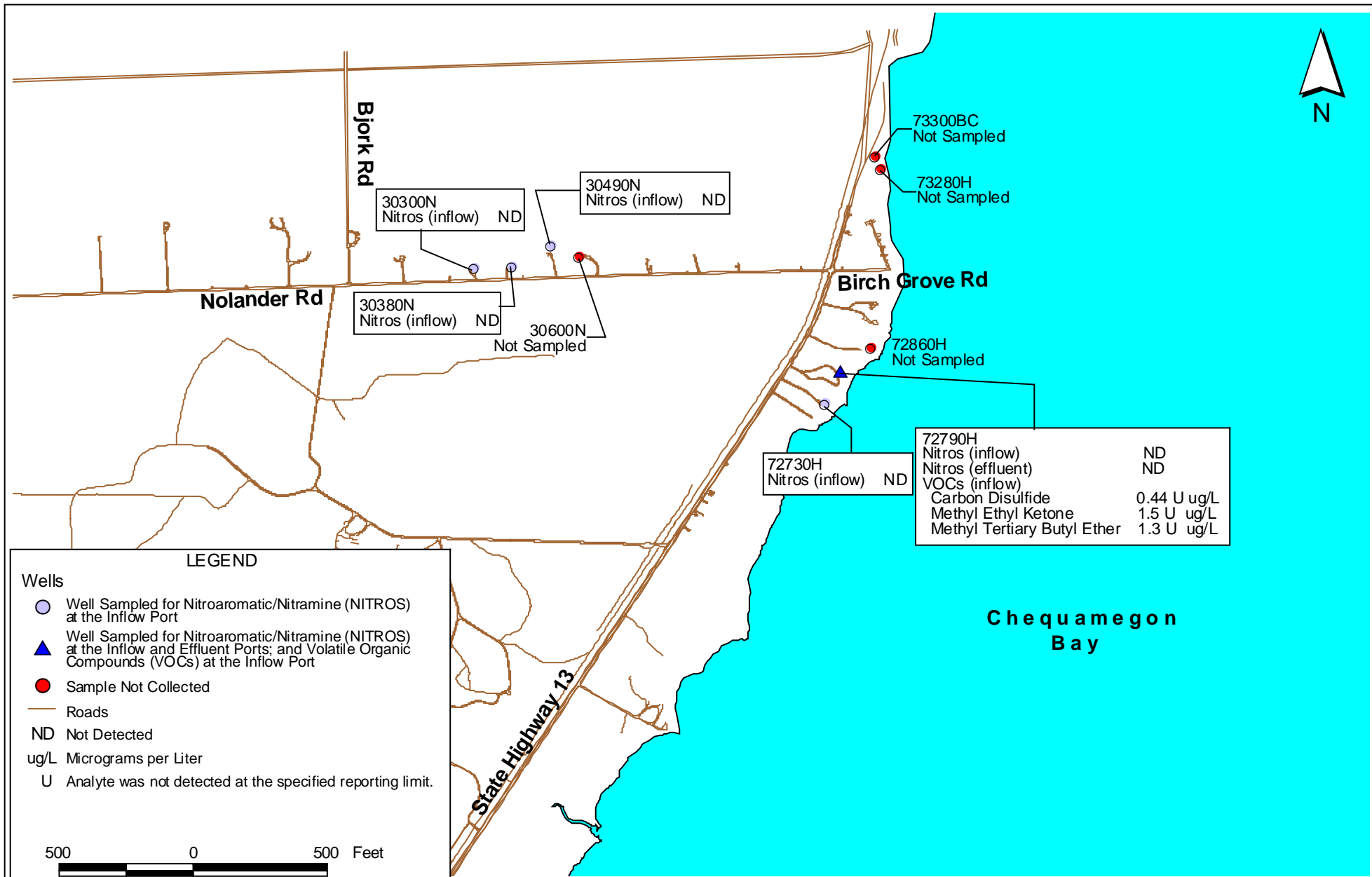
WES: Wisconsin Enforcement Standard

U: Analyte was not detected at the specified reporting limit

J: Analyte present. Reported value may not be accurate or precise.

R: Unusable result. Analyte may or may not be present in the sample.

FIGURES



APPENDIX A
Enclosed CD

Memorandum

DATE: MARCH 4, 2005

TO: Cary A. Pooler, URS Diamond

FROM: Sharon A. Nordstrom

RE: BARKSDALE RESIDENT WELL SAMPLING 12/04

Enclosed is the data report for the residential well samples collected on December 16-17, 2004 for the analyses listed below. The samples were submitted to Severn Trent Laboratories (STL) in Denver, CO for the analyses listed below (not all sample locations required volatiles analysis).

Matrix	Laboratory	Analysis	Analytical Method
Groundwater	STL- Denver	Nitroaromatic/ nitramine organics	SW 846 8321A
Groundwater	STL- Denver	Wisconsin-regulated Volatile organics	SW 846 8260B

Sample Arrival and Receipt

All samples were received at the laboratory within temperature and holding time requirements. No sample breakage was reported upon sample receipt.

QC Findings and Comments

The STL-Denver data deliverables included both a hard-copy report and an electronic data file. All electronic data was reviewed via the automated DuPont Data Review (DDR) process. As noted on the attached DDR narrative report, several QC exceedances were identified and data qualifiers were applied to the reported results as applicable. Methyl tert-butyl ether was detected in both the laboratory method blank and trip blank samples, and carbon disulfide and 2-butanone were detected in the trip blank. These analytes were also reported in sample 72790H at similar concentrations, therefore the results for this sample were "B" qualified accordingly. Nitrobenzene and 2-amino-4,6-DNT were recovered low in the associated laboratory control spikes, therefore the actual detection limits for these compounds may be higher than reported. Since all samples were reported as "non-detect" for these compounds, they were qualified as "UJ".

Positive results between the MDL and PQL that were not otherwise qualified, were qualified with a J and should be considered estimated values.

In addition to the in-house review, the data was submitted to Environmental Standards, Inc. for independent, third-party validation. The data qualifiers applied during the validation process have been added to the attached analysis report, and a complete copy of the Environmental Standards Quality Assurance Review has been provided as a separate deliverable.

Please do not hesitate to contact me if you have any questions regarding this report.

**BARKSDALE WORKS
RESIDENT WELL SAMPLING 12/04**

March 4, 2005

Prepared for

Cary A. Pooler (URS Diamond-Louisville)

Prepared by

URS Diamond
Laboratory Services – Sharon A. Nordstrom
Barley Mill Plaza, Building 27
Wilmington, DE 19805

**Corporate Environmental Database
DDR Narrative Report**

Site: BAR - BARKSDALE WORKS

3/4/2005 11:00:08

Project: RESIDENT WELLS 12/04

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Reporting Limit: MDL

DDR Standards LABSTATS

Contamination detected in Method Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated method blank(s).

Sample ID	Date Sampled	Lab ID	Method Code	Analyte	Result	Units	MDL	PQL	Qual
BAR-G-72790H-INFLOW	12/16/2004	G1GLF1-AA F5	8260B	METHYL TERT-BUTYL ETHER	1.3	UG/L	0.19	5.0	B

Contamination detected in Trip Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated trip blank(s).

Sample ID	Date Sampled	Lab ID	Method Code	Analyte	Result	Units	MDL	PQL	Qual
BAR-G-72790H-INFLOW	12/16/2004	G1GLF1-AA F5	8260B	CARBON DISULFIDE	0.44	UG/L	0.27	1.0	B
BAR-G-72790H-INFLOW	12/16/2004	G1GLF1-AA F5	8260B	2-BUTANONE (MEK)	1.5	UG/L	0.42	5.0	B

The reported result is greater than/equal to the MDL and less than the PQL; it should be considered an estimated value.

Sample ID	Date Sampled	Lab ID	Method Code	Analyte	Result	Units	MDL	PQL	Qual
BAR-K-TBLK1	12/16/2004	G1GLH1-AA TE	8260B	METHYL TERT-BUTYL ETHER	1.1	UG/L	0.19	5.0	J
BAR-K-TBLK1	12/16/2004	G1GLH1-AA TE	8260B	CARBON DISULFIDE	0.36	UG/L	0.27	1.0	J
BAR-K-TBLK1	12/16/2004	G1GLH1-AA TE	8260B	2-BUTANONE (MEK)	0.77	UG/L	0.42	5.0	J

Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Sample ID	Date Sampled	Lab ID	Method Code	Analyte	Result	Units	MDL	PQL	Qual
BAR-G-30300N-INFLOW	12/16/2004	G1GLL1-AA F5	8321	NITROBENZENE	< 0.036	UG/L	0.036	0.12	UJ
BAR-G-30300N-INFLOW	12/16/2004	G1GLL1-AA F5	8321	2-AMINO-4,6-DINITROTOLUENE	< 0.017	UG/L	0.017	0.12	UJ
BAR-G-30380N-INFLOW	12/16/2004	G1GLK1-AA F5	8321	NITROBENZENE	< 0.036	UG/L	0.036	0.12	UJ
BAR-G-30380N-INFLOW	12/16/2004	G1GLK1-AA F5	8321	2-AMINO-4,6-DINITROTOLUENE	< 0.017	UG/L	0.017	0.12	UJ
BAR-G-30490N-INFLOW	12/17/2004	G1GLM1-AA F5	8321	NITROBENZENE	< 0.036	UG/L	0.036	0.12	UJ
BAR-G-30490N-INFLOW	12/17/2004	G1GLM1-AA F5	8321	2-AMINO-4,6-DINITROTOLUENE	< 0.017	UG/L	0.017	0.12	UJ
BAR-G-72730H-INFLOW	12/16/2004	G1GLJ1-AA FS	8321	NITROBENZENE	< 0.036	UG/L	0.036	0.12	UJ
BAR-G-72730H-INFLOW	12/16/2004	G1GLJ1-AA FS	8321	2-AMINO-4,6-DINITROTOLUENE	< 0.017	UG/L	0.017	0.12	UJ
BAR-G-72790H-EFFLUENT	12/16/2004	G1GLG1-AA F5	8321	NITROBENZENE	< 0.036	UG/L	0.036	0.12	UJ
BAR-G-72790H-EFFLUENT	12/16/2004	G1GLG1-AA F5	8321	2-AMINO-4,6-DINITROTOLUENE	< 0.017	UG/L	0.017	0.12	UJ
BAR-G-72790H-INFLOW	12/16/2004	G1GLF1-AC F5	8321	NITROBENZENE	< 0.036	UG/L	0.036	0.12	UJ
BAR-G-72790H-INFLOW	12/16/2004	G1GLF1-AC F5	8321	2-AMINO-4,6-DINITROTOLUENE	< 0.017	UG/L	0.017	0.12	UJ

DuPont In-House Review (DDR)

The DDR is an automated internal review process used by the ADQM group to determine if the data is usable. The data is run through this automated program where a series of checks are performed on the data. The data is evaluated against hold time criteria, checked for blank contamination, assessed against matrix spike(MS)/matrix spike duplicate (MSD) recoveries, assessed against relative percent differences (RPDs) between these samples, assessed against laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries, assessed against RPDs between these samples, assessed against RPDs between laboratory replicates, and assessed against surrogate spike recoveries. The DDR applies the following data qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

Laboratory Qualifiers

The laboratory may have applied one or more of the following data qualifiers to analysis results, as warranted:

DIL	The concentration is estimated or not reported due to dilution or to the presence of interfering analytes.
NC	The recovery and or RPD were not calculated.
J	Estimated value; result falls between method detection limit (mdl) and practical quantitation limit (pql).
U	Analyte was not detected at the specified reporting limit
B	Analyte concentration is not significantly greater than that detected in an associated method blank.

J	Estimated value; result falls between method detection limit (mdl) and practical quantitation limit (pql).
*	Surrogate recovery is outside stated control limits.
J	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
B	Estimated result. Result is less than reporting limit (RL)
Q	Elevated reporting limit. The reporting limit is elevated because sample dilution was required to bring target compounds within calibration range of the analytical system.
G	Elevated reporting limit. The reporting limit is elevated because sample dilution was required for analysis due to matrix interference.

These lab qualifiers are applied independent of DuPont In-House Data Review (DDR) qualifiers.

**Corporate Environmental Database
Lab Analysis Report
Summary of Positive Results
with In-House Qualifier and Review**

Site: BAR - BARKSDALE WORKS

3/4/2005 11:11:15

Project: RESIDENT WELLS 12/04

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Reporting Limit: MDL

Analyte/Parameter	Result	Lab Qual	In- house Qual	Re- view	Unit	MDL	PQL	Method	
Sampling Point:	72790H-INFLOW	Sample no:		BAR-G-72790H-INFLOW					
Date sampled:	Dec 16, 2004	Sample type:		Groundwater					
2-BUTANONE (MEK)	1.5	J	B	U	UG/L	0.42	5.0	8260B	
CARBON DISULFIDE	0.44	J	B	U	UG/L	0.27	1.0	8260B	
METHYL TERT-BUTYL ETHER	1.3	J B	B	U	UG/L	0.19	5.0	8260B	
Sampling Point:	TBLK1	Sample no:		BAR-K-TBLK1					
Date sampled:	Dec 16, 2004	Sample type:		Blank Water					
2-BUTANONE (MEK)	0.77	J	J	J	UG/L	0.42	5.0	8260B	
CARBON DISULFIDE	0.36	J	J	J	UG/L	0.27	1.0	8260B	
METHYL TERT-BUTYL ETHER	1.1	J B	J	J	UG/L	0.19	5.0	8260B	

**Corporate Environmental Database
Lab Analysis Report
with Inhouse Qualifier and Review**

Site: BARKSDALE WORKS
Project: RESIDENT WELLS 12/04
Reporting Limit: MDL

3/4/2005
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Location: 30300N-INFLOW
Date Sampled: 12/16/2004 12:50:00
Lab Sample ID: G1GLL1
Analysis Method: 8321

Field Sample ID: BAR-G-30300N-INFLOW
Sample Type: Groundwater

Prep Method: SW3535

Analyte/Parameter	Dilution	Result	Inhouse			Unit	MDL	PQL	Date Analyzed
			Qual	Qual	Review				
<u>Analytes</u>									
1,3,5-TRINITROBENZENE	1	< 0.018				UG/L	0.018	0.12	Jan 13, 2005
1,3-DINITROBENZENE	1	< 0.019				UG/L	0.019	0.12	Jan 13, 2005
2,4,6-TRINITROTOLUENE	1	< 0.026				UG/L	0.026	0.12	Jan 13, 2005
2,4-DINITROTOLUENE	1	< 0.038				UG/L	0.038	0.12	Jan 13, 2005
2,6-DINITROTOLUENE	1	< 0.037				UG/L	0.037	0.12	Jan 13, 2005
2-AMINO-4,6-DINITROTOLUENE	1	< 0.017		UJ	UJ	UG/L	0.017	0.12	Jan 13, 2005
2-NITROTOLUENE	1	< 0.057				UG/L	0.057	0.12	Jan 13, 2005
3-NITROTOLUENE	1	< 0.064				UG/L	0.064	0.12	Jan 13, 2005
4-AMINO-2,6-DINITROTOLUENE	1	< 0.022				UG/L	0.022	0.12	Jan 13, 2005
4-NITROTOLUENE	1	< 0.061				UG/L	0.061	0.12	Jan 13, 2005
HMX	1	< 0.017				UG/L	0.017	0.12	Jan 13, 2005
NITROBENZENE	1	< 0.036		UJ	UJ	UG/L	0.036	0.12	Jan 13, 2005
NITROGLYCERIN	1	< 0.042				UG/L	0.042	0.12	Jan 13, 2005
PETN	1	< 0.038				UG/L	0.038	0.12	Jan 13, 2005
RDX	1	< 0.013				UG/L	0.013	0.12	Jan 13, 2005
TETRYL	1	< 0.017				UG/L	0.017	0.12	Jan 13, 2005
<u>Surrogates</u>									
NITROBENZENE-D5	1	70 RPR				UG/L	NS	NS	Jan 13, 2005

**Corporate Environmental Database
Lab Analysis Report
with Inhouse Qualifier and Review**

Site: BARKSDALE WORKS
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Location: 30380N-INFLOW
Date Sampled: 12/16/2004 10:30:00
Lab Sample ID: G1GLK1
Analysis Method: 8321

Field Sample ID: BAR-G-30380N-INFLOW
Sample Type: Groundwater

Prep Method: SW3535

Analyte/Parameter	Dilution	Result	Inhouse			Unit	MDL	PQL	Date Analyzed
			Qual	Qual	Review				
<u>Analytes</u>									
1,3,5-TRINITROBENZENE	1	< 0.018				UG/L	0.018	0.12	Jan 13, 2005
1,3-DINITROBENZENE	1	< 0.019				UG/L	0.019	0.12	Jan 13, 2005
2,4,6-TRINITROTOLUENE	1	< 0.026				UG/L	0.026	0.12	Jan 13, 2005
2,4-DINITROTOLUENE	1	< 0.038				UG/L	0.038	0.12	Jan 13, 2005
2,6-DINITROTOLUENE	1	< 0.037				UG/L	0.037	0.12	Jan 13, 2005
2-AMINO-4,6-DINITROTOLUENE	1	< 0.017		UJ	UJ	UG/L	0.017	0.12	Jan 13, 2005
2-NITROTOLUENE	1	< 0.057				UG/L	0.057	0.12	Jan 13, 2005
3-NITROTOLUENE	1	< 0.064				UG/L	0.064	0.12	Jan 13, 2005
4-AMINO-2,6-DINITROTOLUENE	1	< 0.022				UG/L	0.022	0.12	Jan 13, 2005
4-NITROTOLUENE	1	< 0.061				UG/L	0.061	0.12	Jan 13, 2005
HMX	1	< 0.017				UG/L	0.017	0.12	Jan 13, 2005
NITROBENZENE	1	< 0.036		UJ	UJ	UG/L	0.036	0.12	Jan 13, 2005
NITROGLYCERIN	1	< 0.042				UG/L	0.042	0.12	Jan 13, 2005
PETN	1	< 0.038				UG/L	0.038	0.12	Jan 13, 2005
RDX	1	< 0.013				UG/L	0.013	0.12	Jan 13, 2005
TETRYL	1	< 0.017				UG/L	0.017	0.12	Jan 13, 2005
<u>Surrogates</u>									
NITROBENZENE-D5	1	84 RPR				UG/L	NS	NS	Jan 13, 2005

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Location: 30490N-INFLOW
Date Sampled: 12/17/2004 07:30:00
Lab Sample ID: G1GLM1
Analysis Method: 8321

Field Sample ID: BAR-G-30490N-INFLOW
Sample Type: Groundwater

Prep Method: SW3535

Analyte/Parameter	Dilution	Result	Inhouse			Unit	MDL	PQL	Date Analyzed
			Qual	Qual	Review				
<u>Analytes</u>									
1,3,5-TRINITROBENZENE	1	< 0.018				UG/L	0.018	0.12	Jan 13, 2005
1,3-DINITROBENZENE	1	< 0.019				UG/L	0.019	0.12	Jan 13, 2005
2,4,6-TRINITROTOLUENE	1	< 0.026				UG/L	0.026	0.12	Jan 13, 2005
2,4-DINITROTOLUENE	1	< 0.038				UG/L	0.038	0.12	Jan 13, 2005
2,6-DINITROTOLUENE	1	< 0.037				UG/L	0.037	0.12	Jan 13, 2005
2-AMINO-4,6-DINITROTOLUENE	1	< 0.017		UJ	UJ	UG/L	0.017	0.12	Jan 13, 2005
2-NITROTOLUENE	1	< 0.057				UG/L	0.057	0.12	Jan 13, 2005
3-NITROTOLUENE	1	< 0.064				UG/L	0.064	0.12	Jan 13, 2005
4-AMINO-2,6-DINITROTOLUENE	1	< 0.022				UG/L	0.022	0.12	Jan 13, 2005
4-NITROTOLUENE	1	< 0.061				UG/L	0.061	0.12	Jan 13, 2005
HMX	1	< 0.017				UG/L	0.017	0.12	Jan 13, 2005
NITROBENZENE	1	< 0.036		UJ	UJ	UG/L	0.036	0.12	Jan 13, 2005
NITROGLYCERIN	1	< 0.042				UG/L	0.042	0.12	Jan 13, 2005
PETN	1	< 0.038				UG/L	0.038	0.12	Jan 13, 2005
RDX	1	< 0.013				UG/L	0.013	0.12	Jan 13, 2005
TETRYL	1	< 0.017				UG/L	0.017	0.12	Jan 13, 2005
<u>Surrogates</u>									
NITROBENZENE-D5	1	73 RPR				UG/L	NS	NS	Jan 13, 2005

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Location: 72730H-INFLOW
Date Sampled: 12/16/2004 15:40:00
Lab Sample ID: G1GLJ1
Analysis Method: 8321

Field Sample ID: BAR-G-72730H-INFLOW
Sample Type: Groundwater

Prep Method: SW3535

Analyte/Parameter	Dilution	Result	Inhouse			Unit	MDL	PQL	Date Analyzed
			Qual	Qual	Review				
Analytes									
1,3,5-TRINITROBENZENE	1	< 0.018				UG/L	0.018	0.12	Jan 13, 2005
1,3-DINITROBENZENE	1	< 0.019				UG/L	0.019	0.12	Jan 13, 2005
2,4,6-TRINITROTOLUENE	1	< 0.026				UG/L	0.026	0.12	Jan 13, 2005
2,4-DINITROTOLUENE	1	< 0.038				UG/L	0.038	0.12	Jan 13, 2005
2,6-DINITROTOLUENE	1	< 0.037				UG/L	0.037	0.12	Jan 13, 2005
2-AMINO-4,6-DINITROTOLUENE	1	< 0.017		UJ	UJ	UG/L	0.017	0.12	Jan 13, 2005
2-NITROTOLUENE	1	< 0.057				UG/L	0.057	0.12	Jan 13, 2005
3-NITROTOLUENE	1	< 0.064				UG/L	0.064	0.12	Jan 13, 2005
4-AMINO-2,6-DINITROTOLUENE	1	< 0.022				UG/L	0.022	0.12	Jan 13, 2005
4-NITROTOLUENE	1	< 0.061				UG/L	0.061	0.12	Jan 13, 2005
HMX	1	< 0.017				UG/L	0.017	0.12	Jan 13, 2005
NITROBENZENE	1	< 0.036		UJ	UJ	UG/L	0.036	0.12	Jan 13, 2005
NITROGLYCERIN	1	< 0.042				UG/L	0.042	0.12	Jan 13, 2005
PETN	1	< 0.038				UG/L	0.038	0.12	Jan 13, 2005
RDX	1	< 0.013				UG/L	0.013	0.12	Jan 13, 2005
TETRYL	1	< 0.017				UG/L	0.017	0.12	Jan 13, 2005
Surrogates									
NITROBENZENE-D5	1	84 RPR				UG/L	NS	NS	Jan 13, 2005

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Location: 72790H-EFFLUENT
Date Sampled: 12/16/2004 16:25:00
Lab Sample ID: G1GLG1
Analysis Method: 8321

Field Sample ID: BAR-G-72790H-EFFLUENT
Sample Type: Groundwater

Prep Method: SW3535

Analyte/Parameter	Dilution	Result	Inhouse			Unit	MDL	PQL	Date Analyzed
			Qual	Qual	Review				
<u>Analytes</u>									
1,3,5-TRINITROBENZENE	1	< 0.018				UG/L	0.018	0.12	Jan 13, 2005
1,3-DINITROBENZENE	1	< 0.019				UG/L	0.019	0.12	Jan 13, 2005
2,4,6-TRINITROTOLUENE	1	< 0.026				UG/L	0.026	0.12	Jan 13, 2005
2,4-DINITROTOLUENE	1	< 0.038				UG/L	0.038	0.12	Jan 13, 2005
2,6-DINITROTOLUENE	1	< 0.037				UG/L	0.037	0.12	Jan 13, 2005
2-AMINO-4,6-DINITROTOLUENE	1	< 0.017		UJ	UJ	UG/L	0.017	0.12	Jan 13, 2005
2-NITROTOLUENE	1	< 0.057				UG/L	0.057	0.12	Jan 13, 2005
3-NITROTOLUENE	1	< 0.064				UG/L	0.064	0.12	Jan 13, 2005
4-AMINO-2,6-DINITROTOLUENE	1	< 0.022				UG/L	0.022	0.12	Jan 13, 2005
4-NITROTOLUENE	1	< 0.061				UG/L	0.061	0.12	Jan 13, 2005
HMX	1	< 0.017				UG/L	0.017	0.12	Jan 13, 2005
NITROBENZENE	1	< 0.036		UJ	UJ	UG/L	0.036	0.12	Jan 13, 2005
NITROGLYCERIN	1	< 0.042				UG/L	0.042	0.12	Jan 13, 2005
PETN	1	< 0.038				UG/L	0.038	0.12	Jan 13, 2005
RDX	1	< 0.013				UG/L	0.013	0.12	Jan 13, 2005
TETRYL	1	< 0.017				UG/L	0.017	0.12	Jan 13, 2005
<u>Surrogates</u>									
NITROBENZENE-D5	1	81 RPR				UG/L	NS	NS	Jan 13, 2005

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Batch Identifier 141445 5030B 8260B 29-DEC-04 4364477 E

Method Number: 8260B Prep Method: 5030B Pre-prep:
Batch Start Date: 12/29/2004 Instrument: E Batch Number:

Analyte/Parameter	Result	Unit	MDL	PQL	RPR	RPR Limits		RPD	RPD Max
						Min	Max		
Sample Type	LCS	Lab Sample ID: G10AL1-AC LCS		Lab: QES-DEN					
1,1-DICHLOROETHENE	11.0	UG/L	0.27	NS	110	66	132		
BENZENE	9.32	UG/L	0.15	NS	93	75	120		
CHLOROBENZENE	8.41	UG/L	0.19	NS	84	78	118		
TOLUENE	8.97	UG/L	0.17	NS	90	78	118		
TRICHLOROETHENE	9.11	UG/L	0.19	NS	91	79	122		
1,2-DICHLOROETHANE-D4	90 RPR	UG/L	NS	NS	90	62	128		
4-BROMOFLUOROBENZENE	97 RPR	UG/L	NS	NS	97	78	118		
DIBROMOFLUOROMETHANE	89 RPR	UG/L	NS	NS	89	73	118		
TOLUENE-D8	101 RPR	UG/L	NS	NS	101	77	117		
Sample Type	MB	Lab Sample ID: G10AL1-AA MB		Lab: QES-DEN					
1,1,1,2-TETRACHLOROETHANE	< 0.17	UG/L	0.17	1.0					
1,1,1-TRICHLOROETHANE	< 0.18	UG/L	0.18	1.0					
1,1,2,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	1.0					
1,1,2-TRICHLOROETHANE	< 0.24	UG/L	0.24	1.0					
1,1-DICHLOROETHANE	< 0.24	UG/L	0.24	1.0					
1,1-DICHLOROETHENE	< 0.27	UG/L	0.27	1.0					
1,2,3-TRICHLOROPROPANE	< 0.26	UG/L	0.26	1.0					
1,2,4-TRICHLOROBENZENE	< 0.32	UG/L	0.32	1.0					
1,2,4-TRIMETHYLBENZENE	< 0.28	UG/L	0.28	1.0					
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	< 0.63	UG/L	0.63	2.0					
1,2-DIBROMOETHANE (EDB)	< 0.20	UG/L	0.20	1.0					
1,2-DICHLOROBENZENE	< 0.25	UG/L	0.25	1.0					
1,2-DICHLOROETHANE	< 0.12	UG/L	0.12	1.0					
1,2-DICHLOROETHENE (TOTAL)	< 0.17	UG/L	0.17	1.0					
1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	1.0					
1,3,5-TRIMETHYLBENZENE	< 0.26	UG/L	0.26	1.0					
1,3-DICHLOROBENZENE	< 0.21	UG/L	0.21	1.0					
1,3-DICHLOROPROPANE	< 0.17	UG/L	0.17	1.0					
1,4-DICHLOROBENZENE	< 0.20	UG/L	0.20	1.0					
2-BUTANONE (MEK)	< 0.42	UG/L	0.42	5.0					
4-METHYL-2-PENTANONE	< 0.74	UG/L	0.74	5.0					
ACETONE	< 4.0	UG/L	4.0	10					
BENZENE	< 0.15	UG/L	0.15	1.0					
BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	1.0					
BROMOFORM	< 0.33	UG/L	0.33	1.0					
BROMOMETHANE	< 0.26	UG/L	0.26	2.0					
CARBON DISULFIDE	< 0.27	UG/L	0.27	1.0					
CARBON TETRACHLORIDE	< 0.19	UG/L	0.19	1.0					
CHLOROBENZENE	< 0.19	UG/L	0.19	1.0					
CHLOROETHANE	< 0.31	UG/L	0.31	2.0					
CHLOROFORM	< 0.15	UG/L	0.15	1.0					
CHLOROMETHANE	< 0.25	UG/L	0.25	2.0					
DIBROMOCHLOROMETHANE	< 0.12	UG/L	0.12	1.0					
DICHLORODIFLUOROMETHANE	< 0.26	UG/L	0.26	2.0					
ETHYLBENZENE	< 0.22	UG/L	0.22	1.0					
HEXANE	< 0.26	UG/L	0.26	1.0					
METHYL TERT-BUTYL ETHER	0.30	UG/L	0.19	5.0					
METHYLENE CHLORIDE	< 0.26	UG/L	0.26	1.0					
NAPHTHALENE	< 0.29	UG/L	0.29	1.0					
STYRENE	< 0.17	UG/L	0.17	1.0					
TETRACHLOROETHENE	< 0.20	UG/L	0.20	1.0					
TOLUENE	< 0.17	UG/L	0.17	1.0					
TRICHLOROETHENE	< 0.19	UG/L	0.19	1.0					
TRICHLOROFLUOROMETHANE	< 0.33	UG/L	0.33	2.0					
VINYL CHLORIDE	< 0.28	UG/L	0.28	1.0					
XYLENES (TOTAL)	< 0.45	UG/L	0.45	2.0					
1,2-DICHLOROETHANE-D4	92 RPR	UG/L	NS	NS	92	62	128		

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Analyte/Parameter	Result	Unit	MDL	PQL	RPR	RPR Limits		RPD	
						Min	Max	RPD	Max
Sample Type MB	Lab Sample ID: G10AL1-AA MB			Lab: QES-DEN					
4-BROMOFLUOROBENZENE	98 RPR	UG/L	NS	NS	98	78	118		
DIBROMOFLUOROMETHANE	90 RPR	UG/L	NS	NS	90	73	118		
TOLUENE-D8	100 RPR	UG/L	NS	NS	100	77	117		
Sample Type MS	Lab Sample ID: G1GLF1-AD MS			Lab: QES-DEN					
1,1-DICHLOROETHENE	12.2	UG/L	0.27	NS	122	66	132		
BENZENE	11.7	UG/L	0.15	NS	117	75	120		
CHLOROBENZENE	9.65	UG/L	0.19	NS	96	78	118		
TOLUENE	9.87	UG/L	0.17	NS	99	78	118		
TOLUENE-D8	90 RPR	UG/L	NS	NS	90	77	117		
TRICHLOROETHENE	10.9	UG/L	0.19	NS	109	79	122		
1,2-DICHLOROETHANE-D4	89 RPR	UG/L	NS	NS	89	62	128		
4-BROMOFLUOROBENZENE	99 RPR	UG/L	NS	NS	99	78	118		
DIBROMOFLUOROMETHANE	90 RPR	UG/L	NS	NS	90	73	118		
Sample Type MSD	Lab Sample ID: G1GLF1-AE MSD			Lab: QES-DEN					
1,1-DICHLOROETHENE	13.9	UG/L	0.27	NS	139	66	132	13	26
BENZENE	12.3	UG/L	0.15	NS	123	75	120	4.4	21
CHLOROBENZENE	10.3	UG/L	0.19	NS	103	78	118	6.4	20
TOLUENE	10.6	UG/L	0.17	NS	106	78	118	6.7	22
TRICHLOROETHENE	11.6	UG/L	0.19	NS	116	79	122	6.6	23
1,2-DICHLOROETHANE-D4	85 RPR	UG/L	NS	NS	85	62	128		
4-BROMOFLUOROBENZENE	100 RPR	UG/L	NS	NS	100	78	118		
DIBROMOFLUOROMETHANE	90 RPR	UG/L	NS	NS	90	73	118		
TOLUENE-D8	93 RPR	UG/L	NS	NS	93	77	117		

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
BAR-G-72790H-INFLOW	12/16/2004	G1GLF1-AA FS	QES-DEN
BAR-K-TBLK1	12/16/2004	G1GLH1-AA TB	QES-DEN

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Batch Identifier 141446 SW3535 8321 21-DEC-04 4356062 LCMS2

Method Number: 8321 Prep Method: SW3535 Pre-prep:
Batch Start Date: 12/21/2004 Instrument: LCMS2 Batch Number:

Analyte/Parameter	Result	Unit	MDL	PQL	RPR	RPR Limits		RPD	
						Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: G1J6G1-AC LCS		Lab: QES-DEN					
1,3,5-TRINITROBENZENE	0.452	UG/L	0.018	NS	90	67	118		
1,3-DINITROBENZENE	0.431	UG/L	0.019	NS	86	66	122		
2,4,6-TRINITROTOLUENE	0.407	UG/L	0.026	NS	81	66	117		
2,4-DINITROTOLUENE	0.408	UG/L	0.038	NS	82	68	118		
2,6-DINITROTOLUENE	0.366	UG/L	0.037	NS	73	66	118		
2-AMINO-4,6-DINITROTOLUENE	0.329	UG/L	0.017	NS	66	68	122		
2-NITROTOLUENE	0.287	UG/L	0.057	NS	57	46	124		
3-NITROTOLUENE	0.263	UG/L	0.064	NS	53	38	128		
4-AMINO-2,6-DINITROTOLUENE	0.374	UG/L	0.022	NS	75	63	120		
4-NITROTOLUENE	0.291	UG/L	0.061	NS	58	49	124		
HMX	0.497	UG/L	0.017	NS	99	76	142		
NITROBENZENE	0.310	UG/L	0.036	NS	62	68	117		
NITROGLYCERIN	0.415	UG/L	0.042	NS	83	42	136		
PETN	0.328	UG/L	0.038	NS	66	49	129		
RDX	0.439	UG/L	0.013	NS	88	73	118		
TETRYL	0.420	UG/L	0.017	NS	84	30	170		
NITROBENZENE-D5	71 RPR	UG/L	NS	NS	71	69	111		
Sample Type	MB	Lab Sample ID: G1J6G1-AA MB		Lab: QES-DEN					
1,3,5-TRINITROBENZENE	< 0.018	UG/L	0.018	0.12					
1,3-DINITROBENZENE	< 0.019	UG/L	0.019	0.12					
2,4,6-TRINITROTOLUENE	< 0.026	UG/L	0.026	0.12					
2,4-DINITROTOLUENE	< 0.038	UG/L	0.038	0.12					
2,6-DINITROTOLUENE	< 0.037	UG/L	0.037	0.12					
2-AMINO-4,6-DINITROTOLUENE	< 0.017	UG/L	0.017	0.12					
2-NITROTOLUENE	< 0.057	UG/L	0.057	0.12					
3-NITROTOLUENE	< 0.064	UG/L	0.064	0.12					
4-AMINO-2,6-DINITROTOLUENE	< 0.022	UG/L	0.022	0.12					
4-NITROTOLUENE	< 0.061	UG/L	0.061	0.12					
HMX	< 0.017	UG/L	0.017	0.12					
NITROBENZENE	< 0.036	UG/L	0.036	0.12					
NITROGLYCERIN	< 0.042	UG/L	0.042	0.12					
PETN	< 0.038	UG/L	0.038	0.12					
RDX	< 0.013	UG/L	0.013	0.12					
TETRYL	< 0.017	UG/L	0.017	0.12					
NITROBENZENE-D5	59 RPR	UG/L	NS	NS	59	37	121		
Sample Type	MS	Lab Sample ID: G1GLF1-AF MS		Lab: QES-DEN					
1,3,5-TRINITROBENZENE	0.343	UG/L	0.018	NS	72	48	135		
1,3-DINITROBENZENE	0.391	UG/L	0.019	NS	82	62	127		
2,4,6-TRINITROTOLUENE	0.349	UG/L	0.026	NS	73	59	129		
2,4-DINITROTOLUENE	0.452	UG/L	0.038	NS	94	58	130		
2,6-DINITROTOLUENE	0.431	UG/L	0.037	NS	90	59	126		
2-AMINO-4,6-DINITROTOLUENE	0.416	UG/L	0.017	NS	87	61	131		
2-NITROTOLUENE	0.383	UG/L	0.057	NS	80	20	134		
3-NITROTOLUENE	0.381	UG/L	0.064	NS	80	20	123		
4-AMINO-2,6-DINITROTOLUENE	0.392	UG/L	0.022	NS	82	57	132		
4-NITROTOLUENE	0.373	UG/L	0.061	NS	78	21	131		
HMX	0.377	UG/L	0.017	NS	79	20	156		
NITROBENZENE	0.283	UG/L	0.036	NS	59	22	129		
NITROGLYCERIN	0.215	UG/L	0.042	NS	45	19	126		
PETN	0.316	UG/L	0.038	NS	66	35	154		
RDX	0.408	UG/L	0.013	NS	85	55	141		
TETRYL	0.308	UG/L	0.017	NS	64	20	126		
NITROBENZENE-D5	76 RPR	UG/L	NS	NS	76	37	121		
Sample Type	MSD	Lab Sample ID: G1GLF1-AG MSD		Lab: QES-DEN					
1,3,5-TRINITROBENZENE	0.365	UG/L	0.018	NS	77	48	135	6.3	40
1,3-DINITROBENZENE	0.414	UG/L	0.019	NS	87	62	127	5.5	40
2,4,6-TRINITROTOLUENE	0.371	UG/L	0.026	NS	78	59	129	6.0	40

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Analyte/Parameter	Result	Unit	MDL	PQL	RPR	RPR Limits		RPD	
						Min	Max	RPD	Max
Sample Type	MSD	Lab Sample ID: G1GLF1-AG MSD		Lab: QES-DEN					
2,4-DINITROTOLUENE	0.421	UG/L	0.038	NS	88	58	130	6.9	40
2,6-DINITROTOLUENE	0.374	UG/L	0.037	NS	78	59	126	14	40
2-AMINO-4,6-DINITROTOLUENE	0.373	UG/L	0.017	NS	78	61	131	11	40
2-NITROTOLUENE	0.361	UG/L	0.057	NS	76	20	134	5.8	50
3-NITROTOLUENE	0.371	UG/L	0.064	NS	78	20	123	2.7	50
4-AMINO-2,6-DINITROTOLUENE	0.398	UG/L	0.022	NS	83	57	132	1.6	40
4-NITROTOLUENE	0.345	UG/L	0.061	NS	72	21	131	7.7	50
HMX	0.391	UG/L	0.017	NS	82	20	156	3.6	50
NITROBENZENE	0.314	UG/L	0.036	NS	66	22	129	10	40
NITROGLYCERIN	0.334	UG/L	0.042	NS	70	19	126	43	40
PETN	0.304	UG/L	0.038	NS	64	35	154	3.9	40
RDX	0.409	UG/L	0.013	NS	86	55	141	0.12	40
TETRYL	0.294	UG/L	0.017	NS	62	20	126	4.6	40
NITROBENZENE-D5	87 RPR	UG/L	NS	NS	87	37	121		

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
BAR-G-30300N-INFLOW	12/16/2004	G1GLL1-AA FS	QES-DEN
BAR-G-30380N-INFLOW	12/16/2004	G1GLK1-AA FS	QES-DEN
BAR-G-30490N-INFLOW	12/17/2004	G1GLM1-AA FS	QES-DEN
BAR-G-72730H-INFLOW	12/16/2004	G1GLJ1-AA FS	QES-DEN
BAR-G-72790H-EFFLUENT	12/16/2004	G1GLG1-AA FS	QES-DEN
BAR-G-72790H-INFLOW	12/16/2004	G1GLF1-AC FS	QES-DEN

CHAIN OF CUSTODY NUMBER

Chain of Custody
Record

STL4149 (1202)

Client: **E.I. Dugont De Nemours** Date: **12/14/2004** Page **11** of **11**

Project Manager: **Cary Pooler** Lab Location: **STL Denver**

Address: **Barley Mill Plaza Building 27**

Telephone Number (Area Code)/Fax Number: **(000) / (000)**

City: **Wilmington** State: **DE** Zip Code: **19805**

Site Contact: **MORCIS DUDLEY**

Project Number/Name: **BAR** Carrier/Waybill Number: **QUOTE: 39097**

Contract/Purchase Order/Quote Number: **CONTRACT / PURCHASE ORDER #: 7035-507355-772000/LBIO-65011**

Sample I.D. Number and Description	Date	Time	Sample Type	Containers		Preservative	Condition on Receipt/Comments	Analysis
				Volume	Type			
BAR-V-TBKI	12/14/04	1630	WATER	40mL	UTAL	1:1 HCL		EM
								YS
								DB
								26
								20
								11
								LL
								Y

Special Instructions: **Detected** **Resident Wells 12/04**

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Normal Rush Other

Turn Around Time Required: _____

Sample Disposal:
 Return To Client Disposal By Lab Archive For _____ Months
 (A fee may be assessed if samples are retained longer than 3 months)

Project Specific Requirements (Specify): _____

QC Level: I. II. III.

1. Relinquished By: **Paul Jones** Date: **12/14/04** Time: **1345**

2. Relinquished By: **Morris Dudley** Date: **12/17/04** Time: **1000**

3. Relinquished By: **Paul Jones** Date: **12/18/04** Time: **1300**

Comments: _____

DISTRIBUTION: WHITE - Stays with the Sample. CANARY - Returned to Client with Report. PINK - Field Copy

February 4, 2005

Ms. Sharon A. Nordstrom
URS Diamond
Barley Mill Plaza, Bldg. 27
Rts. 141 and 48
Wilmington, DE 19805

Dear Ms. Nordstrom:

Enclosed is the quality assurance review for the aqueous samples collected on December 16 and 17, 2004, for the DuPont Corporate Remediation Group 12/04 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. This report is based on our review of specific raw data and the DuPont Data Review (DDR) output.

The "not-detected" results for acetone in all samples were qualified as unusable due to very low relative response factors in the associated initial calibration and calibration verification standards. The quality of the remaining data is acceptable; however, the following qualifications were made.

- The positive results for 2-butanone, carbon disulfide, and methyl *tert*-butyl ether in one sample were qualified due to blank contamination based on the DDR output.
- The positive results for 2-butanone in all samples were qualified due to very low relative response factors in the associated initial calibration and calibration verification standards.
- The results for methyl *tert*-butyl ether in all samples were qualified due to a high percent drift in the associated calibration verification standard.
- The results for 2-amino-4,6-dinitrotoluene and nitrobenzene in all samples were qualified due to low laboratory control sample recoveries based on the DDR output.
- Based on standard project reporting requirements, the positive results reported with concentrations between the laboratory's associated method detection limits and practical quantitation limits should be considered estimated based on the DDR output.

Any reporting errors identified during the quality assurance review were corrected by the data reviewer.

Ms. Sharon A. Nordstrom
URS Diamond
February 4, 2005
-page 2

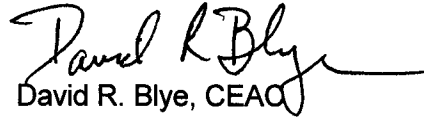
If you have any questions or comments, please do not hesitate to call.

Sincerely,



Konstadina Vlahogiani, M.S.
Senior Quality Assurance Chemist III/
Project Manager

Sincerely,



David R. Blye, CEAO
Quality Assurance Specialist/
Principal

KV/DRB:hm
Enc.

**QUALITY ASSURANCE REVIEW OF THE AQUEOUS SAMPLES
COLLECTED ON DECEMBER 16 AND 17, 2004
FOR THE DUPONT CORPORATE REMEDIATION GROUP
12/04 GROUNDWATER SAMPLING PROJECT
AT THE BARKSDALE, WISCONSIN FACILITY**

February 4, 2005

Prepared for:

DUPONT CORPORATE REMEDIATION GROUP
Barley Mill Plaza, Bldg. 27
Rts. 141 and 48
Wilmington, DE 19805

Prepared by:

ENVIRONMENTAL STANDARDS, INC.
1140 Valley Forge Road
P.O. Box 810
Valley Forge, PA 19482-0810

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Section 3 Organic Data Support Documentation

Section 4 DuPont Data Review Output

Section 5 Laboratory Case Narrative and Project Chain-of-Custody Records

Executive Summary

An analytical quality assurance (QA) review was performed on data for the nine aqueous samples (including quality control samples) collected in association with the DuPont Corporate Remediation Group 12/04 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. The QA review was based upon an examination of specific raw data and the DuPont Data Review (DDR) output. The organic analyses were performed by SW-846 methods. A comprehensive Contract Laboratory Program (CLP)-like raw data package was prepared by the laboratory and was reviewed by Environmental Standards.

The "not-detected" results for acetone in all samples were qualified as unusable due to very low relative response factors in the associated initial calibration and calibration verification standards. The quality of the remaining data is acceptable; however, the following qualifications were made.

- The positive results for 2-butanone, carbon disulfide, and methyl *tert*-butyl ether in one sample were qualified due to blank contamination based on the DDR output.
- The positive results for 2-butanone in all samples were qualified due to very low relative response factors in the associated initial calibration and calibration verification standards.
- The results for methyl *tert*-butyl ether in all samples were qualified due to a high percent drift in the associated calibration verification standard.
- The results for 2-amino-4,6-dinitrotoluene and nitrobenzene in all samples were qualified due to low laboratory control sample recoveries based on the DDR output.
- Based on standard project reporting requirements, the positive results reported with concentrations between the laboratory's associated method detection limits and practical quantitation limits should be considered estimated based on the DDR output.

Any reporting errors identified during the quality assurance review were corrected by the data reviewer.

Introduction

This quality assurance (QA) review is based upon an examination of specific raw data and the DuPont Data Review (DDR) output generated from the nine aqueous samples (including quality control [QC] samples) that were collected on December 16 and 17, 2004, as part of the DuPont Corporate Remediation Group 12/04 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. The samples that have undergone a QA review are listed on Table 1. Table 1 presents the field sample number, laboratory sample number, laboratory project number, collection date, and parameter(s) analyzed and reviewed for each sample.

This review has been performed with guidance from the "National Functional Guidelines for Organic Data Review" (US EPA, 2/94).

The DDR output used to generate this QA review is presented in Section 4 and includes the following DDR spreadsheets:

- List 1
- List 3
- Table 1
- Table 2 Majors
- Table 2 Majors Counts
- Table 2 Minors
- Table 2 Minors Counts
- DDR Differences
- Logs Abbreviated
- Logs Complete

The DDR is an electronic validation tool that qualifies data based on an electronic data deliverable (EDD) provided by the analytical laboratory. The DDR output was generated by DuPont and provided to Environmental Standards, Inc. for use in the preparation of this QA report. Details of this QA review are presented in Section 1 of this report.

The reported analytical results are presented on the laboratory analysis reports included in Section 2, "Target Analyte Summary." The DDR output was examined to determine the usability of the analytical results, and specific raw data were examined to determine the usability of the analytical results and compliance relative to requirements specified by "Test Methods for Evaluating Solid Waste" (SW-846, Third Revision, 1986, and updates as applicable). In addition, the deliverables prepared according to a Contract Laboratory Program-like data package were evaluated. Details of this QA review are presented in Section 1 of this report.

This QA review identifies data quality issues for specific samples and specific evaluation criteria. Data not qualified in this report should be considered valid based on the QC criteria that have been reviewed.

TABLE 1

SUMMARY OF GROUNDWATER SAMPLE DATA REVIEWED

DUPONT BARKSDALE, WISCONSIN FACILITY

DuPont Corporate Remediation Group Sample Identification	Laboratory Sample Number	Laboratory Project Number	Date of Sample Collection	Parameter(s) Analyzed and Reviewed
BAR-G-72790H-INFLOW	G1GLF	D4L180244	12/16/04	E, V
BAR-G-72790H-INFLOWMS (Matrix Spike)	G1GLFMS	D4L180244	12/16/04	E, V
BAR-G-72790H-INFLOWMSD (Matrix Spike Duplicate)	G1GLFMSD	D4L180244	12/16/04	E, V
BAR-G-72790H-EFFLUENT	G1GLG	D4L180244	12/16/04	E
BAR-K-TBLK1 (Trip Blank)	G1GLH	D4L180244	12/16/04	V
BAR-G-72730H-INFLOW	G1GLJ	D4L180244	12/16/04	E
BAR-G-30380N-INFLOW	G1GLK	D4L180244	12/16/04	E
BAR-G-30300N-INFLOW	G1GLL	D4L180244	12/16/04	E
BAR-G-30490N-INFLOW	G1GLM	D4L180244	12/17/04	E

NOTES:

- E - Nitroaromatics and Nitroamines by SW-846 Method 8321A (Modified per STL SOP No. DEN-LC-0010, Revision No. 3). (8 analyses)
- V - Volatile Organic Compounds by SW-846 Method 8260B. (4 analyses)

Section 1 Quality Assurance Review

A. Organic Data

The organic analyses of nine aqueous samples (including QC samples) collected as part of the DuPont Corporate Remediation Group (DuPont) 12/04 Groundwater Sampling Project at the Barksdale, Wisconsin, Facility on December 16 and 17, 2004, were performed by Severn Trent Laboratories, Inc. (STL) in Denver, Colorado. The samples were collectively analyzed for nitroaromatics and nitroamines according to SW-846 Method 8321A, as specified in "Test Methods for Evaluating Solid Waste" (SW-846, Third Edition, Final Update II, September, 1994) and modified as specified in STL proprietary Standard Operating Procedure (SOP) No. DEN-LC-0010 (Revision No. 3). This modified method uses liquid chromatography with a thermospray interfaced to a mass spectrometer (LC/TSP/MS). One sample and its associated QC samples and a trip blank were also analyzed for volatile organic compounds according to SW-846 Method 8260B. The analyses are identified on Table 1. The data were presented in one Contract Laboratory Program (CLP)-like data package.

The findings offered in this report are based upon a review of the DDR output for the following QA/QC measures:

- sample holding times
- matrix spike (MS)/matrix spike duplicate (MSD) recoveries and precision
- surrogate recoveries
- blank analysis results
- laboratory control sample (LCS) recoveries

The findings offered in this report are also based upon a review of the raw data for the following:

- sample condition upon laboratory receipt
- gas chromatogram/mass spectral (GC/MS) tuning and system performance
- qualitative identification
- quantitation of sample results
- internal standard areas
- initial calibrations and calibration verifications
- analytical sequence

The analytical results for the organic compounds are provided as a summary of the data in Section 2 of this report.

Data Package Deliverables

Overall, the organic data quality is good. The following analytical criteria and/or reporting requirements were not met for the original data package received. Reporting errors identified during the quality assurance review were corrected by the data reviewer. The following items do not affect data usability. Usability is addressed in the Data Evaluation section.

Noncorrectable Deficiency

- The laboratory analyzed one nitroaromatics and nitroamines continuing calibration verification (CCV) standard with a concentration of 50 µg/L. According to STL SOP No. DEN-LC-0010 (Section 10.6.1, pg. 14 of 33), the concentration of the CCV standards should be "100 µg/L." In the data reviewer's opinion, there was no impact on data quality due to this issue.

Comments

1. As noted in the Laboratory Case Narrative, a sample cooler temperature of 3.4°C was recorded upon laboratory receipt for several project coolers. Samples collected for nitroaromatics and nitroamines analyses are required to be preserved at a temperature of 4°C (STL SOP No. DEN-LC-0010 [Section 8.2., pg. 10 of 33]). In addition, samples collected for volatile organic analyses are required to be preserved at a temperature of 4°C (SW-846, Chapter 4 [Table 4-1]). The data reviewer, however, does not consider the data to have been impacted because it is customary for the acceptable preservation temperature to be 4±2°C.
2. The collection time for sample BAR-G-72790H-EFFLUENT was reported as "16:25" on the Sample Summary form and on the associated analysis report. According to the Chain-of-Custody Records, the correct collection time for sample BAR-G-72790H-EFFLUENT is 1630.
3. In the nitroaromatics and nitroamines fraction, the initial calibration verification (ICV) standard was not spiked with the surrogate compound nitrobenzene-d₅ in the initial analysis (file: ex25a1072); therefore, the ICV was reanalyzed (file: ex25a1081). The recoveries for all target compounds were within the QC limits for both ICV standard analyses. There is no impact on data quality due to this issue.
4. In the nitroaromatics and nitroamines fraction, the method detection limits (MDLs) and practical quantitation limits (PQLs) in the project samples were not adjusted for the exact volume extracted. For the MDLs and PQLs, the laboratory used a standard dilution factor for samples based on an initial sample volume of 1000 mL and a final extract volume of 5 mL unless the amount extracted differed from 1000 mL by 20% or more. The amount extracted for the samples ranged from 1005 mL to 1055 mL, which would impact the reported MDLs and PQLs by 5% or less if the reported MDLs and PQLs were adjusted for the exact volume extracted. The MDLs and PQLs reported on the qualified analysis reports in Section 2 have not been adjusted for the exact sample volume due to the minimal impact on the reported values.
5. According to the Laboratory Case Narrative and the Chain-of-Custody Records, sample BAR-G-73300BC-INFLOW was not collected. Nitroaromatics and nitroamines results are not available for this sample.

6. In the volatile organic fraction, the calibration file names for the MAIN initial calibration standards were incorrectly reported on the Initial Calibration Data summary form.
7. In the volatile organic fraction, the initial calibration verification (ICV) standard analyzed after the MAIN initial calibration (file: e4910) was not provided in the data package for project number D4L180244. It is unclear from the associated run log if this ICV standard met the QC criteria. The laboratory provided another ICV standard (file: e4917) that was analyzed after the SUPP initial calibration and that met the QC criteria.
8. In the volatile organic fraction, the laboratory did not summarize the internal standard areas and the retention times (RTs) of both CCVs (MAIN010 and SUPP010) analyzed in each analytical sequence on the Internal Standard Compounds Area And RT Summary forms provided for the project samples. The reviewer compared the internal standard areas and the RTs of both CCVs (MAIN010 and SUPP010) to the internal standard areas and RTs of the project samples.

Data Evaluation

With respect to data usability, the principal areas of concern are blank contamination, instrument sensitivity, a high percent drift in the calibration verification standard, low LCS recoveries, and quantitation below the PQL. Based on the DDR output and the review of specific raw data provided, the following organic data qualifiers are offered. The following data usability issues represent an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the data validation guidelines routinely specify areas of the data that require qualification, yet the methods used for analysis may not require corrective action by the laboratory. Accordingly, the following data usability issues should not be construed as an indication of laboratory performance.

Organic Data Qualifiers

- Due to the trace-level presence of 2-butanone, carbon disulfide, and methyl *tert*-butyl ether in the associated method and trip blanks, the positive results for these compounds in sample BAR-G-72790H-INFLOW should be considered "not-detected" and have been flagged "U" on the qualified analysis reports based on the DDR output.
- The analyses for acetone in all samples are unusable, and the "not-detected" results have been flagged "R" on the qualified analysis reports. In addition, the positive results for 2-butanone in all samples should be considered estimated and have been flagged "J" (unless previously flagged "U" due to blank contamination) on the qualified analysis reports. Low (<0.050) relative response factors (RRFs) were observed for acetone and 2-butanone in the associated initial calibration and calibration verification standards.

- The positive results for methyl *tert*-butyl ether in all samples should be considered estimated and have been flagged "J" (unless previously flagged "U" due to blank contamination) on the qualified analysis reports. A high percent drift ($20\% < \%D \leq 90\%$) in the direction of sensitivity decrease was observed for this compound between the measured concentration and the true concentration in the associated calibration verification standard.
- The MDLs and PQLs for 2-amino-4,6-dinitrotoluene and nitrobenzene in all samples in SDG D4L180244 may be higher than reported, and the "not-detected" results have been flagged "UJ" on the qualified analysis reports. Low recoveries ($10\% \leq \%R < \text{QC limits}$) were observed for these compounds in the associated LCS analysis based on the DDR output.
- Based on standard project reporting requirements, the positive results reported with concentrations between the laboratory's associated MDLs and PQLs have been flagged "J" by the laboratory. Environmental Standards concurs that these positive results should be considered quantitative estimates and has also flagged the results "J" (unless previously flagged "U" due to blank contamination) on the qualified analysis reports based on the DDR output.

Support documentation of this organic QA review is provided in Section 3 of this report. The DDR output on which parts of this QA report have been based on is presented in Section 4 of this report.

B. Conclusions

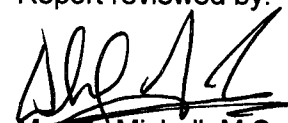
Based on the DDR output, the 2-butanone, carbon disulfide, and methyl *tert*-butyl ether results were qualified due to blank contamination and several organic compounds results were qualified due to low LCS recoveries and quantitation below the PQL. Based on the QA review, a few organic compounds results were qualified due to poor instrument sensitivity and a high percent drift in the calibration verification standard. In order to use any of the data, the data user should understand the qualifications and limitations as specified in this QA review. The Laboratory Case Narrative and Project Chain-of-Custody Records are presented in Section 5 of this report.

Report prepared by:



Konstadina Vlahogiani, M.S.
Senior Quality Assurance Chemist III/
Project Manager

Report reviewed by:


Meg A. Mitchell, M.S. for MUM
Senior Quality Assurance Chemist III

Report reviewed and approved by:



David R. Blye, CEAC
Quality Assurance Specialist/
Principal

ENVIRONMENTAL STANDARDS, INC.
1140 Valley Forge Road
P.O. Box 810
Valley Forge, PA 19482-0810

Date: 02/04/05

(610) 935-5577

SECTION 2

TARGET ANALYTE SUMMARY

ORGANIC DATA QUALIFIERS

- ND The compound was not detected at or above the associated numerical value.
- U This compound should be considered "not detected" because it was detected in a blank at a similar level.
- J Quantitation is approximate due to limitations identified during the quality assurance review (data validation) or the DuPont Data Review (DDR) output review.
- R Unusable result; compound may or may not be present in this sample.
- UJ This compound was not detected, but the detection limit is probably higher due to a low bias identified during the quality assurance review or the DuPont Data Review (DDR) output review.

R.I. DUPONT DE NEMOURS AND CO

Client Sample ID: BAR-G-72790H-INFLOW

GC/MS Volatiles

Lot-Sample #...: D4L180244-001 Work Order #...: G1GLF1AA Matrix.....: WATER
 Date Sampled...: 12/16/04 16:20 Date Received...: 12/18/04
 Prep Date.....: 12/29/04 Analysis Date...: 12/29/04
 Prep Batch #...: 4364477 Analysis Time...: 14:21
 Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND R	10	ug/L	4.0
Benzene	ND	1.0	ug/L	0.15
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.33
Bromomethane	ND	2.0	ug/L	0.26
2-Butanone (MEK)	1.5 J U	5.0	ug/L	0.42
Carbon disulfide	0.44 J U	1.0	ug/L	0.27
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.19
Dibromochloromethane	ND	1.0	ug/L	0.12
Chloroethane	ND	2.0	ug/L	0.31
Chloroform	ND	1.0	ug/L	0.15
Chloromethane	ND	2.0	ug/L	0.25
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.63
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.20
1,2-Dichlorobenzene	ND	1.0	ug/L	0.25
1,3-Dichlorobenzene	ND	1.0	ug/L	0.21
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
Dichlorodifluoromethane	ND	2.0	ug/L	0.26
1,1-Dichloroethane	ND	1.0	ug/L	0.24
1,2-Dichloroethane	ND	1.0	ug/L	0.12
1,1-Dichloroethene	ND	1.0	ug/L	0.27
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.17
1,2-Dichloropropane	ND	1.0	ug/L	0.17
1,3-Dichloropropane	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.22
Hexane	ND	1.0	ug/L	0.26
Methylene chloride	ND	1.0	ug/L	0.26
4-Methyl-2-pentanone	ND	5.0	ug/L	0.74
Methyl tert-butyl ether	1.3 J, B U	5.0	ug/L	0.19
Naphthalene	ND	1.0	ug/L	0.29
Styrene	ND	1.0	ug/L	0.17
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.17
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.16
Tetrachloroethene	ND	1.0	ug/L	0.20
Toluene	ND	1.0	ug/L	0.17

(Continued on next page)

KV 2/3/05

E.I. DUPONT DE NEMOURS AND CO

Client Sample ID: BAR-G-72790H-INFLOW

GC/MS Volatiles

Lot-Sample #...: D4L180244-001 Work Order #...: G1GLF1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4-Trichloro- benzene	ND	1.0	ug/L	0.32
1,1,1-Trichloroethane	ND	1.0	ug/L	0.18
1,1,2-Trichloroethane	ND	1.0	ug/L	0.24
Trichloroethene	ND	1.0	ug/L	0.19
Trichlorofluoromethane	ND	2.0	ug/L	0.33
1,2,3-Trichloropropane	ND	1.0	ug/L	0.26
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.28
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.28
Xylenes (total)	ND	2.0	ug/L	0.45

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(73 - 118)
1,2-Dichloroethane-d4	88	(62 - 128)
4-Bromofluorobenzene	98	(78 - 118)
Toluene-d8	98	(77 - 117)

NOTE (S) :

J Estimated result. Result is less than RL.

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

E.I. DUPONT DE NEMOURS AND CO

Client Sample ID: BAR-K-TBLK1

GC/MS Volatiles

Lot-Sample #....: D4L180244-003 Work Order #....: G1GLH1AA Matrix.....: WATER
 Date Sampled....: 12/16/04 16:30 Date Received...: 12/18/04
 Prep Date.....: 12/29/04 Analysis Date...: 12/29/04
 Prep Batch #....: 4364477 Analysis Time...: 15:36
 Dilution Factor: 1
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	UNITS	MDL
Acetone	ND	R	10 ug/L	4.0
Benzene	ND		1.0 ug/L	0.15
Bromodichloromethane	ND		1.0 ug/L	0.15
Bromoform	ND		1.0 ug/L	0.33
Bromomethane	ND		2.0 ug/L	0.26
2-Butanone (MEK)	0.77 J	J	5.0 ug/L	0.42
Carbon disulfide	0.36 J	J	1.0 ug/L	0.27
Carbon tetrachloride	ND		1.0 ug/L	0.19
Chlorobenzene	ND		1.0 ug/L	0.19
Dibromochloromethane	ND		1.0 ug/L	0.12
Chloroethane	ND		2.0 ug/L	0.31
Chloroform	ND		1.0 ug/L	0.15
Chloromethane	ND		2.0 ug/L	0.25
1,2-Dibromo-3-chloropropane (DBCP)	ND		2.0 ug/L	0.63
1,2-Dibromoethane (EDB)	ND		1.0 ug/L	0.20
1,2-Dichlorobenzene	ND		1.0 ug/L	0.25
1,3-Dichlorobenzene	ND		1.0 ug/L	0.21
1,4-Dichlorobenzene	ND		1.0 ug/L	0.20
Dichlorodifluoromethane	ND		2.0 ug/L	0.26
1,1-Dichloroethane	ND		1.0 ug/L	0.24
1,2-Dichloroethane	ND		1.0 ug/L	0.12
1,1-Dichloroethene	ND		1.0 ug/L	0.27
1,2-Dichloroethene (total)	ND		1.0 ug/L	0.17
1,2-Dichloropropane	ND		1.0 ug/L	0.17
1,3-Dichloropropane	ND		1.0 ug/L	0.17
Ethylbenzene	ND		1.0 ug/L	0.22
Hexane	ND		1.0 ug/L	0.26
Methylene chloride	ND		1.0 ug/L	0.26
4-Methyl-2-pentanone	ND		5.0 ug/L	0.74
Methyl tert-butyl ether	1.1 J,B	J	5.0 ug/L	0.19
Naphthalene	ND		1.0 ug/L	0.29
Styrene	ND		1.0 ug/L	0.17
1,1,1,2-Tetrachloroethane	ND		1.0 ug/L	0.17
1,1,2,2-Tetrachloroethane	ND		1.0 ug/L	0.16
Tetrachloroethene	ND		1.0 ug/L	0.20
Toluene	ND		1.0 ug/L	0.17

(Continued on next page)

W 2/3/05

E.I. DUPONT DE NEMOURS AND CO

Client Sample ID: BAR-K-TBLK1

GC/MS Volatiles

Lot-Sample #...: D4L180244-003 Work Order #...: G1GLH1AA Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,2,4-Trichloro- benzene	ND	1.0	ug/L	0.32
1,1,1-Trichloroethane	ND	1.0	ug/L	0.18
1,1,2-Trichloroethane	ND	1.0	ug/L	0.24
Trichloroethene	ND	1.0	ug/L	0.19
Trichlorofluoromethane	ND	2.0	ug/L	0.33
1,2,3-Trichloropropane	ND	1.0	ug/L	0.26
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.28
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.28
Xylenes (total)	ND	2.0	ug/L	0.45

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	89	(73 - 118)
1,2-Dichloroethane-d4	86	(62 - 128)
4-Bromofluorobenzene	102	(78 - 118)
Toluene-d8	93	(77 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

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

E.I. DUPONT DE NEMOURS AND CO

Client Sample ID: BAR-G-72790H-INFLOW

HPLC

Lot-Sample #...: D4L180244-001 Work Order #...: G1GLF1AC Matrix.....: WATER
 Date Sampled...: 12/16/04 16:20 Date Received...: 12/18/04
 Prep Date.....: 12/21/04 Analysis Date...: 01/13/05
 Prep Batch #...: 4356062 Analysis Time...: 12:23
 Dilution Factor: 1
 Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.12	ug/L	0.022
2-Amino-4,6-dinitrotoluene	ND UJ	0.12	ug/L	0.017
1,3-Dinitrobenzene	ND	0.12	ug/L	0.019
2,4-Dinitrotoluene	ND	0.12	ug/L	0.038
2,6-Dinitrotoluene	ND	0.12	ug/L	0.037
HMX	ND	0.12	ug/L	0.017
Nitrobenzene	ND UJ	0.12	ug/L	0.036
Nitroglycerin	ND	0.12	ug/L	0.042
3-Nitrotoluene	ND	0.12	ug/L	0.064
2-Nitrotoluene	ND	0.12	ug/L	0.057
4-Nitrotoluene	ND	0.12	ug/L	0.061
PETN	ND	0.12	ug/L	0.038
RDX	ND	0.12	ug/L	0.013
Tetryl	ND	0.12	ug/L	0.017
1,3,5-Trinitrobenzene	ND	0.12	ug/L	0.018
2,4,6-Trinitrotoluene	ND	0.12	ug/L	0.026
	PERCENT	RECOVERY		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Nitrobenzene-d5	73	(37 - 121)		

W
2/3/05

E.I. DUPONT DE NEMOURS AND CO

Client Sample ID: BAR-G-72790H-EFFLUENT

HPLC

Lot-Sample #...: D4L180244-002 Work Order #...: G1GLG1AA Matrix.....: WATER
 Date Sampled...: 12/16/04 16:25 Date Received...: 12/18/04
 Prep Date.....: 12/21/04 Analysis Date...: 01/13/05
 Prep Batch #...: 4356062 Analysis Time...: 13:59
 Dilution Factor: 1

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.12	ug/L	0.022
2-Amino-4,6-dinitrotoluene	ND UJ	0.12	ug/L	0.017
1,3-Dinitrobenzene	ND	0.12	ug/L	0.019
2,4-Dinitrotoluene	ND	0.12	ug/L	0.038
2,6-Dinitrotoluene	ND	0.12	ug/L	0.037
HMX	ND	0.12	ug/L	0.017
Nitrobenzene	ND UJ	0.12	ug/L	0.036
Nitroglycerin	ND	0.12	ug/L	0.042
3-Nitrotoluene	ND	0.12	ug/L	0.064
2-Nitrotoluene	ND	0.12	ug/L	0.057
4-Nitrotoluene	ND	0.12	ug/L	0.061
PETN	ND	0.12	ug/L	0.038
RDX	ND	0.12	ug/L	0.013
Tetryl	ND	0.12	ug/L	0.017
1,3,5-Trinitrobenzene	ND	0.12	ug/L	0.018
2,4,6-Trinitrotoluene	ND	0.12	ug/L	0.026

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	81	(37 - 121)

kw 2/3/05

E.I. DUPONT DE NEMOURS AND CO

Client Sample ID: BAR-G-72730H-INFLOW

HPLC

Lot-Sample #....: D4L180244-004 Work Order #....: G1GLJ1AA Matrix.....: WATER
 Date Sampled....: 12/16/04 15:40 Date Received...: 12/18/04
 Prep Date.....: 12/21/04 Analysis Date...: 01/13/05
 Prep Batch #....: 4356062 Analysis Time...: 14:30
 Dilution Factor: 1
 Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.12	ug/L	0.022
2-Amino-4,6-dinitrotoluene	ND UJ	0.12	ug/L	0.017
1,3-Dinitrobenzene	ND	0.12	ug/L	0.019
2,4-Dinitrotoluene	ND	0.12	ug/L	0.038
2,6-Dinitrotoluene	ND	0.12	ug/L	0.037
HMX	ND	0.12	ug/L	0.017
Nitrobenzene	ND UJ	0.12	ug/L	0.036
Nitroglycerin	ND	0.12	ug/L	0.042
3-Nitrotoluene	ND	0.12	ug/L	0.064
2-Nitrotoluene	ND	0.12	ug/L	0.057
4-Nitrotoluene	ND	0.12	ug/L	0.061
PETN	ND	0.12	ug/L	0.038
RDX	ND	0.12	ug/L	0.013
Tetryl	ND	0.12	ug/L	0.017
1,3,5-Trinitrobenzene	ND	0.12	ug/L	0.018
2,4,6-Trinitrotoluene	ND	0.12	ug/L	0.026

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	84	(37 - 121)

W 2/3/05

E.I. DUPONT DE NEMOURS AND CO

Client Sample ID: BAR-G-30380N-INFLOW

HPLC

Lot-Sample #...: D4L180244-005 Work Order #...: G1GLK1AA Matrix.....: WATER
 Date Sampled...: 12/16/04 10:30 Date Received...: 12/18/04
 Prep Date.....: 12/21/04 Analysis Date...: 01/13/05
 Prep Batch #...: 4356062 Analysis Time...: 15:02
 Dilution Factor: 1
 Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.12	ug/L	0.022
2-Amino-4,6-dinitrotoluene	ND UJ	0.12	ug/L	0.017
1,3-Dinitrobenzene	ND	0.12	ug/L	0.019
2,4-Dinitrotoluene	ND	0.12	ug/L	0.038
2,6-Dinitrotoluene	ND	0.12	ug/L	0.037
HMX	ND	0.12	ug/L	0.017
Nitrobenzene	ND UJ	0.12	ug/L	0.036
Nitroglycerin	ND	0.12	ug/L	0.042
3-Nitrotoluene	ND	0.12	ug/L	0.064
2-Nitrotoluene	ND	0.12	ug/L	0.057
4-Nitrotoluene	ND	0.12	ug/L	0.061
PETN	ND	0.12	ug/L	0.038
RDX	ND	0.12	ug/L	0.013
Tetryl	ND	0.12	ug/L	0.017
1,3,5-Trinitrobenzene	ND	0.12	ug/L	0.018
2,4,6-Trinitrotoluene	ND	0.12	ug/L	0.026

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	84	(37 - 121)

LV 2/3/05

E.I. DUPONT DE NEMOURS AND CO

Client Sample ID: BAR-G-30300N-INFLOW

HPLC

Lot-Sample #....: D4L180244-006 Work Order #....: G1GLL1AA Matrix.....: WATER
 Date Sampled...: 12/16/04 12:50 Date Received...: 12/18/04
 Prep Date.....: 12/21/04 Analysis Date...: 01/13/05
 Prep Batch #....: 4356062 Analysis Time...: 16:27
 Dilution Factor: 1

Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.12	ug/L	0.022
2-Amino-4,6-dinitrotoluene	ND UJ	0.12	ug/L	0.017
1,3-Dinitrobenzene	ND	0.12	ug/L	0.019
2,4-Dinitrotoluene	ND	0.12	ug/L	0.038
2,6-Dinitrotoluene	ND	0.12	ug/L	0.037
HMX	ND	0.12	ug/L	0.017
Nitrobenzene	ND UJ	0.12	ug/L	0.036
Nitroglycerin	ND	0.12	ug/L	0.042
3-Nitrotoluene	ND	0.12	ug/L	0.064
2-Nitrotoluene	ND	0.12	ug/L	0.057
4-Nitrotoluene	ND	0.12	ug/L	0.061
PETN	ND	0.12	ug/L	0.038
RDX	ND	0.12	ug/L	0.013
Tetryl	ND	0.12	ug/L	0.017
1,3,5-Trinitrobenzene	ND	0.12	ug/L	0.018
2,4,6-Trinitrotoluene	ND	0.12	ug/L	0.026
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
Nitrobenzene-d5		RECOVERY	LIMITS	
		70	(37 - 121)	

W 2/13/05

E.I. DUPONT DE NEMOURS AND CO

Client Sample ID: BAR-G-30490N-INFLOW

HPLC

Lot-Sample #...: D4L180244-007 Work Order #...: G1GLM1AA Matrix.....: WATER
 Date Sampled...: 12/17/04 07:30 Date Received...: 12/18/04
 Prep Date.....: 12/21/04 Analysis Date...: 01/13/05
 Prep Batch #...: 4356062 Analysis Time...: 16:59
 Dilution Factor: 1
 Method.....: SW846 8321A

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.12	ug/L	0.022
2-Amino-4,6-dinitrotoluene	ND <i>UJ</i>	0.12	ug/L	0.017
1,3-Dinitrobenzene	ND	0.12	ug/L	0.019
2,4-Dini:	ND	0.12	ug/L	0.038
2,6-Dinitrotoluene	ND	0.12	ug/L	0.037
HMX	ND	0.12	ug/L	0.017
Nitrobenzene	ND <i>UJ</i>	0.12	ug/L	0.036
Nitroglycerin	ND	0.12	ug/L	0.042
3-Nitrotoluene	ND	0.12	ug/L	0.064
2-Nitrotoluene	ND	0.12	ug/L	0.057
4-Nitrotoluene	ND	0.12	ug/L	0.061
PETN	ND	0.12	ug/L	0.038
RDX	ND	0.12	ug/L	0.013
Tetryl	ND	0.12	ug/L	0.017
1,3,5-Trinitrobenzene	ND	0.12	ug/L	0.018
2,4,6-Trinitrotoluene	ND	0.12	ug/L	0.026

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	73	(37 - 121)

KV 2/3/05

SECTION 3

ORGANIC DATA SUPPORT DOCUMENTATION

Organic Analyses Support Documentation

Environmental Standards Project Name: DuPont/Barksdale
 Sample Collection Dates: 12/16 - 12/17/04
 Job Number: Y1071617
 Project Manager: Dina V
 Laboratory: STL - Denver

Reviewed By: Dina V
 Approved By: mm
 Completion Date: 2/05

Applicable Sample No's.: Refer to Table 1 in the Quality Assurance Review

	Sample No.	Lab. Control No.
Deliverables: CLP <input checked="" type="checkbox"/> like	<u>SDG D4L180244</u>	
Tier I <input type="checkbox"/>		
Tier II <input type="checkbox"/>		
Limited <input type="checkbox"/>		
Other _____		

The following table indicates criteria which were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail			Problems Identified			Support Documentation Attachments					
	Check (✓) if Yes or Footnote Letter for Comments Below			Check (✓) if Yes or Footnote Number for Comments Below			Check (✓) if Yes -- or Identify Attachment No.					
	VOA Method <u>826CB</u>	BVA Method	PEST Method / PCB	Other Method(s) <u>B321A</u>	VOA Method <u>826CB</u>	BVA Method	PEST Method / PCB	Other Method(s) <u>B321A</u>	VOA Method <u>826CB</u>	BVA Method	PEST Method / PCB	Other Method(s) <u>B321A</u>
Holding Times												
Blank Analysis Results: Target Compounds												
Blank Analysis Results: TICs												
System Mntr. Compds. &/or Surrogate Spike Rsits.												
Matrix Spike / Matrix Spike Duplicate Results												
Blank Spike Results												
Duplicate Analysis Results <input type="checkbox"/> Field <input type="checkbox"/> Lab												
Qualitative Identification: Target Compounds	✓			✓								
Qualitative Identification: TICs												
DFTPP & BFB Mass Tuning	✓								✓			
GC Instrument Performance												
Initial Calibrations	✓			✓	✓				✓			✓
Continuing Calibrations	✓			✓	✓				✓			✓
Quantitation of Results	✓			✓								
DDT / Endrin Breakdown												
Surrogate Retention Time Shifts												
Internal Standards Performance	✓			✓					✓			✓
Resolution Check Standards												
Analytical Sequence	✓			✓					✓			✓
Florisil Cartridge Check & GPC Calibration												
GC Column Agreement												
Others:												

Comments: Data is acceptable for use unless otherwise qualified



Column 75M	Phase OB-624	Inj. Temp 200C	Int. Time 2 min. 0 min. 0 min.	Ramp Rate 5C/min 12C/min 25C/min	Final Temp 65C 155C 210C	Flow Control 18	Press. Psi 20	Type MS	Vac. Range 10^-6	Source Temp -175C	Mass Range 35-3000 ²
---------------	-----------------	-------------------	---	---	-----------------------------------	--------------------	------------------	------------	---------------------	----------------------	------------------------------------

Comments
DEN-MS-0010 (2606/624/524.2)
(Circle as appropriate)

Target Batch (Directory): EA22504.b
IS-191-04 SS-123-04

Lot #	Sample	W.O.#	Purge	Sample	Date	Initials	File Number	IS OK	SS OK	DIL OK	24 hr pH	MS/VOA Comments	ALS
BFB			P.I.	1 mL	12/27/04	TS	E 4902	-			2	235-04	3
VBK			20	20 mL			03					26/04	4
Maint				0.5 mL			04					254/279-04	5
				1			05						6
				2.5			06						7
				5			07						8
				15			08						9
				30			09						10
ICV 030				15			10					230/270/58-04	11
Support				0.5			11					265/265-04	12
				1			12						13
				2.5			13						14
				5			14						15
				15			15						16
				30			16						17
ICV 530 (main)				15			17					230/270/280-04	1

QuantIMS Batch:

Date : 23-DEC-2004 12:15

Client ID: BFB

Instrument: E.i

Sample Info: BFB,,235-04

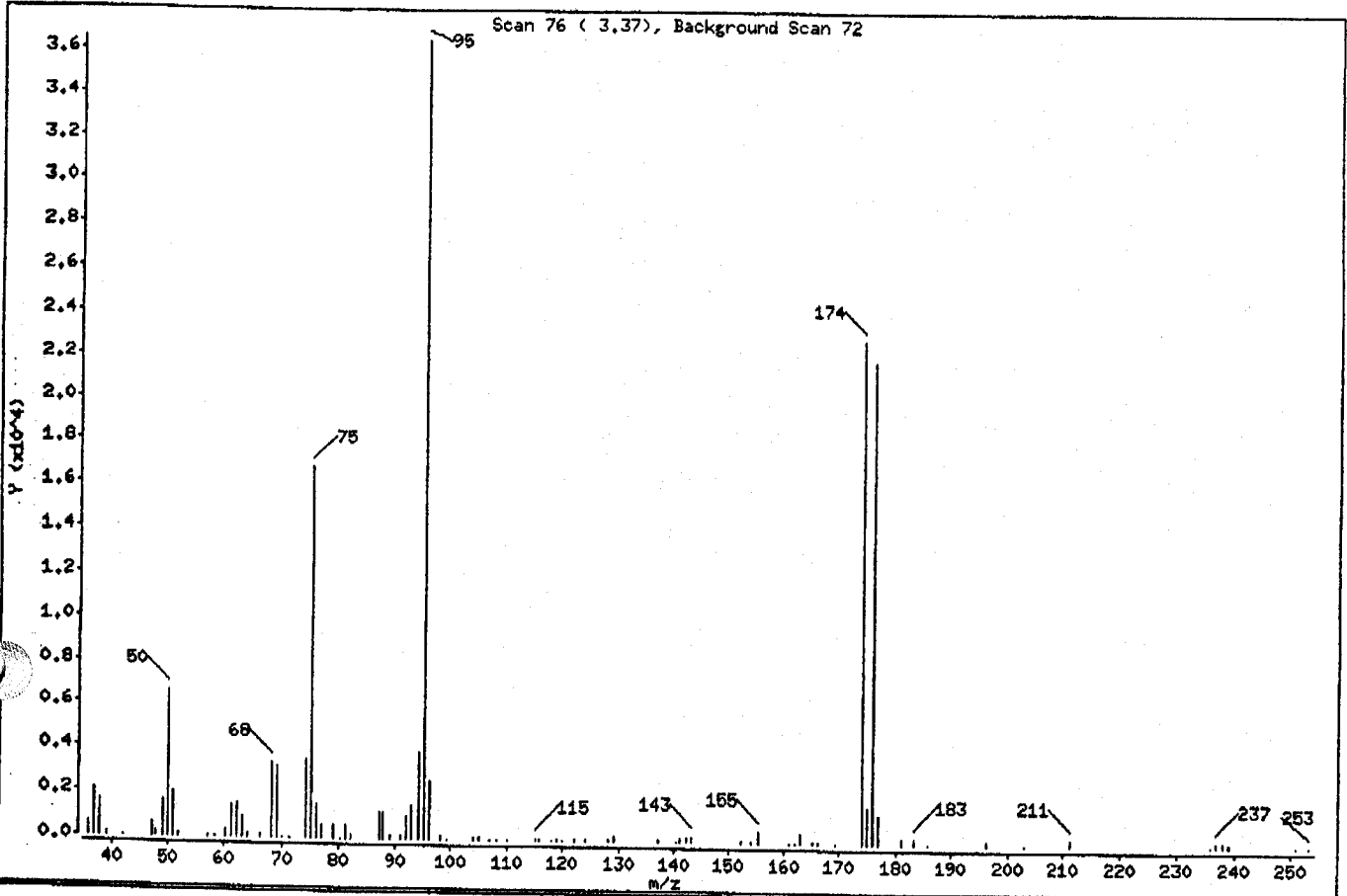
Volume Injected (uL): 1.0

Operator: zhohu

Column phase: DB624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.11
75	30.00 - 60.00% of mass 95	46.00
96	5.00 - 9.00% of mass 95	7.14
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	62.57
175	5.00 - 9.00% of mass 174	4.35 (6.94)
176	95.00 - 101.00% of mass 174	59.79 (95.55)
177	5.00 - 9.00% of mass 176	3.39 (5.68)

Calibration History

Method : /chem/E.i/122304.b/E-20ml8260B.m
 Start Cal Date: 23-DEC-2004 12:59
 End Cal Date : 23-DEC-2004 17:57

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
23-DEC-2004 15:53	2-suppl	/chem/E.i/122304.b/e4911.d
23-DEC-2004 12:59	1-main	/chem/E.i/122304.b/e4904.d

Cal Level: 2 , Cal Amount: 2.00000		
23-DEC-2004 16:18	2-suppl	/chem/E.i/122304.b/e4912.d
23-DEC-2004 13:24	1-main	/chem/E.i/122304.b/e4905.d

Cal Level: 3 , Cal Amount: 5.00000		
23-DEC-2004 16:42	2-suppl	/chem/E.i/122304.b/e4913.d
23-DEC-2004 13:49	1-main	/chem/E.i/122304.b/e4906.d

Cal Level: 4 , Cal Amount: 10.0000		
23-DEC-2004 17:07	2-suppl	/chem/E.i/122304.b/e4914.d
23-DEC-2004 14:14	1-main	/chem/E.i/122304.b/e4907.d

Cal Level: 5 , Cal Amount: 30.0000		
23-DEC-2004 17:32	2-suppl	/chem/E.i/122304.b/e4915.d
23-DEC-2004 14:38	1-main	/chem/E.i/122304.b/e4908.d

Cal Level: 6 , Cal Amount: 60.0000		
23-DEC-2004 17:57	2-suppl	/chem/E.i/122304.b/e4916.d
23-DEC-2004 15:03	1-main	/chem/E.i/122304.b/e4909.d

Continuing Calibration

23-DEC-2004 17:07	2-suppl	/chem/E.i/122304.b/e4914.d
23-DEC-2004 14:14	1-main	/chem/E.i/122304.b/e4907.d

GC/MS Initial Calibration Review Checklist

STL Denver

Instrument ID and Date: E 122704.6 Jan

Check Method Used: Analysis 625 8270 8270 Other SV

524.2 624 8260B Other VOA

VOA Preparation: 5mL 20mL 5035 Low 5035 High 5030 Low 5030 High

Initial Calibration	Level 1		Level 2	Comments
	Yes	No		
1. BIB/DFTPP meets criteria?	/			
2. ICAL date and instrument ID verified?	/			
3. Sufficient number of calibration points used?	/			
4. Reasons for removal of points documented?	/			
5. %RSD or correlation coefficient within method limits?	/			Some pts below "RL" removed
6. If RRF used for ICAL, were all compounds within 15% RSD?	/			List all exceptions below (cpd & RSD)
7. Response factors meet criteria?	/			
8. Isomeric pairs checked for correct peak assignment?	/			
9. Data checked for detector saturation?	/			
10. Standards traceability properly documented?	/			
11. Manual integrations documented and checked?	/			
12. 2 nd source ICV recovery (75-125% for DoJ projects, 65-135% (±55% of expected for poor performers) for non-DoD)?	/			

L-1 to L-5 for Cyclohexanone (L-6 was removed), and DVRG was used with RSD of 25.6%.

1st Level Reviewer: 9/8 Date: 12-27-04

2nd Level Reviewer: DA Date: 12-28-04

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 23-DEC-2004 12:59
 End Cal Date : 23-DEC-2004 17:57
 Quant Method : ISTD
 Target Version : 3.40
 Integrator : HP RTE
 Method file : /chem/E.i/122304.b/E-20ml8260B.m
 Cal Date : 27-Dec-2004 11:34 appelhad

main 1 CAL files e4904 - e4909

Calibration File Names:

- Level 1: /chem/E.i/122304.b/e4911.d
- Level 2: /chem/E.i/122304.b/e4912.d
- Level 3: /chem/E.i/122304.b/e4913.d
- Level 4: /chem/E.i/122304.b/e4914.d
- Level 5: /chem/E.i/122304.b/e4915.d
- Level 6: /chem/E.i/122304.b/e4916.d

Compound	Level						Coefficients		RSD or R^2
	1	2	5	10	30	60	b	m1	
1 1,2-Dichloroethene (total)	0.23490	0.24388	0.23073	0.24196	0.24000	0.22164	AVRG	0.23552	3.54000
2 Xylene (total)	6.51982	6.81490	6.51318	6.74141	6.49808	6.16600	AVRG	6.54223	3.47797
3 dichlorodifluoromethane	++++	0.43567	0.42287	0.44656	0.44844	0.41560	AVRG	0.43383	3.32305
5 Chloromethane	++++	0.20956	0.20995	0.20852	0.21110	0.20509	AVRG	0.20884	1.09805
6 Vinyl Chloride	0.22065	0.22879	0.21895	0.23194	0.23256	0.21952	AVRG	0.22540	2.83456
7 Bromomethane	++++	0.16662	0.15330	0.15924	0.14613	0.13267	AVRG	0.15159	8.56944
9 Chloroethane	++++	0.13782	0.13337	0.13432	0.12619	0.10860	AVRG	0.12806	9.11253
11 Trichlorofluoromethane	++++	0.58940	0.56895	0.59028	0.57446	0.53667	AVRG	0.57195	3.81079
12 Ethanol	++++	0.00045	0.00040	0.00040	0.00040	0.00045	AVRG	0.00042	5.84030

N 27
 Test by
 Campbell

NTG

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 23-DEC-2004 12:59
 End Cal Date : 23-DEC-2004 17:57
 Quant Method : ISTD
 Target Version : 3.40
 Integrator : HP RTE
 Method file : /chem/E.i/122304.b/E-20ml8260B.m
 Cal Date : 27-Dec-2004 11:34 appelhad

Compound	Level						Curve	b	Coefficients		VRSD OR R ²
	1	2	5	10	30	60			m1	m2	
16 Acrolein	++++	0.00816	0.00760	0.00821	0.00819	0.00737	AVRG		0.00791	NTC	4.95050
17 1,1-Dichloroethene	0.16796	0.17302	0.16867	0.17898	0.18225	0.16855	AVRG		0.17324		3.50981
19 Acetone	0.01303	0.01745	0.01435	0.01532	0.01363	0.01219	AVRG		0.01433	JR	13.05562
20 Iodomethane	0.27766	0.29021	0.27596	0.30765	0.31980	0.30586	AVRG		0.29619		5.98449
23 Acetonitrile	++++	0.00448	0.00393	0.00388	0.00389	0.00366	AVRG		0.00397	NTC	7.75409
26 Methylene Chloride	52057	112413	229373	434119	1192643	2248208	WLINR	-0.05644	0.18441		0.99376
27 tert-Butyl alcohol	++++	0.00608	0.00597	0.00660	0.00660	0.00618	AVRG		0.00629	NTC	4.71263
28 Acrylonitrile	0.01334	0.01659	0.01767	0.01863	0.01859	0.01713	AVRG		0.01699		11.53023
29 trans-1,2-Dichloroethene	0.23149	0.23230	0.21326	0.22537	0.22653	0.21830	AVRG		0.22321		4.16636
32 1,1-Dichloroethane	0.45141	0.51349	0.49257	0.52417	0.51633	0.47232	AVRG		0.49505		5.76158
34 Isopropyl ether	0.17284	0.22367	0.22068	0.22765	0.21251	0.18209	AVRG		0.20657		11.26592
35 Chloroprene	0.33661	0.38018	0.38279	0.38621	0.35018	0.29288	AVRG		0.35147		9.70254
37 2,2-Dichloropropane	0.47539	0.39566	0.51539	0.53652	0.52242	0.48088	AVRG		0.48771		10.46510
38 cis-1,2-Dichloroethene	0.23931	0.25547	0.24820	0.25855	0.25347	0.23297	AVRG		0.24783		4.10155
39 Toluene	0.02901	0.03239	0.03351	0.03140	0.03259	0.02738	AVRG		0.03105	JR	7.61712
40 Propionitrile	0.00596	0.00741	0.00657	0.00693	0.00724	0.00667	AVRG		0.00680	NTC	7.63620
42 Methacrylonitrile	0.03391	0.04600	0.04767	0.05224	0.05044	0.04536	AVRG		0.04594	NTC	14.03702

Report Date : 27-Dec-2004 11:34

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STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 23-DEC-2004 12:59
 End Cal Date : 23-DEC-2004 17:57
 Quant Method : ISTD
 Target Version : 3.40
 Integrator : HP RTE
 Method file : /chem/E.i/122304.b/E-20ml8260B.m
 Cal Date : 27-Dec-2004 11:34 appelhad

Compound	Coefficients										VRSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	ml	m2	
43 Bromochloromethane	0.09049	0.10340	0.10296	0.10863	0.10815	0.09657	AVRG		0.10170		6.89821
44 Chloroform	0.44978	0.54323	0.52318	0.53853	0.53315	0.48866	AVRG		0.51275		7.11988
47 1,1,1-Trichloroethane	0.51882	0.56373	0.54198	0.56388	0.56384	0.52080	AVRG		0.54551		3.96604
49 1,1-Dichloropropene	0.42335	0.45659	0.44285	0.46876	0.44992	0.40741	AVRG		0.44148		5.10024
50 Carbon Tetrachloride	0.46352	0.49971	0.48610	0.51070	0.50328	0.45892	AVRG		0.48704		4.43102
51 Isobutanol	++++	0.00209	0.00188	0.00215	0.00217	0.00204	AVRG		0.00207	NTC	5.71610
53 Benzene	0.84306	0.92437	0.88162	0.91023	0.88383	0.78891	AVRG		0.87200		5.65957
54 1,2-Dichloroethane	0.17589	0.22763	0.22313	0.23879	0.23219	0.20783	AVRG		0.21758		10.53792
57 n-Butanol	++++	0.00162	0.00161	0.00182	0.00201	0.00191	AVRG		0.00179	NTC	9.93427
58 Trichloroethene	0.30461	0.33071	0.31145	0.33769	0.34272	0.32264	AVRG		0.32497		4.59029
61 1,2-Dichloropropane	0.24953	0.29095	0.27774	0.28816	0.28691	0.26409	AVRG		0.27623		5.91682
62 Dibromomethane	0.10511	0.12421	0.11967	0.13088	0.12585	0.11613	AVRG		0.12031		7.49438
64 1,4-Dioxane	++++	0.00087	0.00087	0.00087	0.00096	0.00090	AVRG		0.00089	NTC	4.04081
65 Bromodichloromethane	0.36303	0.43710	0.43153	0.45268	0.45157	0.41731	AVRG		0.42597		7.93073
68 cis-1,3-Dichloropropene	1.56618	1.86506	1.84390	1.97853	1.99903	1.98054	AVRG		1.87221		8.73191
69 4-Methyl-2-pentanone	53752	169225	425661	906577	2681060	5041842	WLNLR	0.14324	0.51340		0.99784
71 Toluene	4.57685	4.88885	4.71294	4.94810	4.78922	4.73704	AVRG		4.77550		3.77299

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 23-DEC-2004 12:59
 End Cal Date : 23-DEC-2004 17:57
 Quant Method : ISTD
 Target Version : 3.40
 Integrator : HP RTE
 Method file : /chem/E.i/122304.b/E-20ml8260B.m
 Cal Date : 27-Dec-2004 11:34 appelhad

Compound	1		2		5		10		30		60		Coefficients		1RSR or R ²
	Level 1	Level 2	Level 2	Level 2	Level 3	Level 3	Level 4	Level 4	Level 5	Level 5	Level 6	Level 6	b	m1	
72 trans-1,3-Dichloropropene	1.18520	1.17476	1.28558	1.39411	1.28558	1.39411	1.39411	1.39411	1.42129	1.42129	1.42403	1.42403	1.31416	1.31416	8.79667
74 1,1,2-Trichloroethane	0.63788	0.70264	0.67135	0.73818	0.67135	0.73818	0.73818	0.73818	0.72741	0.72741	0.73063	0.73063	0.70135	0.70135	5.63991
75 Tetrachloroethene	1.24365	1.35235	1.27344	1.38311	1.27344	1.38311	1.38311	1.38311	1.37236	1.37236	1.37075	1.37075	1.33261	1.33261	4.42541
76 1,3-Dichloropropane	1.06028	1.27711	1.25100	1.38079	1.25100	1.38079	1.38079	1.38079	1.34638	1.34638	1.29340	1.29340	1.26816	1.26816	8.85337
77 2-Hexanone	0.21663	0.28722	0.29866	0.32278	0.29866	0.32278	0.32278	0.32278	0.32149	0.32149	0.31558	0.31558	0.29373	0.29373	13.70499
79 Dibromochloromethane	0.96595	1.23557	1.26621	1.35913	1.26621	1.35913	1.35913	1.35913	1.37226	1.37226	1.38448	1.38448	1.26393	1.26393	12.50617
80 1,2-Dibromoethane	0.67953	0.80909	0.81342	0.89660	0.81342	0.89660	0.89660	0.89660	0.89996	0.89996	0.90134	0.90134	0.83333	0.83333	10.42078
82 1-Chlorohexane	2.44380	2.52312	2.40618	2.62189	2.40618	2.62189	2.62189	2.62189	2.56330	2.56330	2.49231	2.49231	2.50843	2.50843	3.13855
83 Chlorobenzene	3.09758	3.23482	3.10042	3.21710	3.10042	3.21710	3.21710	3.21710	3.08120	3.08120	3.00247	3.00247	3.12227	3.12227	2.82082
84 1,1,1,2-Tetrachloroethane	1.34909	1.51613	1.43272	1.51031	1.43272	1.51031	1.51031	1.51031	1.48519	1.48519	1.42768	1.42768	1.45352	1.45352	4.36777
85 Ethylbenzene	1.67641	1.72095	1.62745	1.73389	1.62745	1.73389	1.73389	1.73389	1.63671	1.63671	1.54979	1.54979	1.66086	1.66086	4.38688
86 m and p-Xylene	2.24543	2.35554	2.23644	2.32214	2.23644	2.32214	2.32214	2.32214	2.20923	2.20923	2.06870	2.06870	2.23958	2.23958	4.48411
88 o-Xylene	2.02896	2.10382	2.04029	2.09714	2.04029	2.09714	2.09714	2.09714	2.07962	2.07962	2.02859	2.02859	2.06307	2.06307	1.67434
89 Styrene	2.96039	3.27117	3.18322	3.36495	3.18322	3.36495	3.36495	3.36495	3.20403	3.20403	3.06224	3.06224	3.17433	3.17433	4.56541
90 Bromoform	0.49922	0.62171	0.61275	0.65902	0.61275	0.65902	0.65902	0.65902	0.67844	0.67844	0.67542	0.67542	0.62443	0.62443	10.75133
91 isopropyl benzene	6.91220	6.97458	6.62315	7.01135	6.62315	7.01135	7.01135	7.01135	6.68255	6.68255	6.50908	6.50908	6.78549	6.78549	3.06431
93 Cyclohexanone	0.03274	0.04053	0.03618	0.03966	0.03618	0.03966	0.03966	0.03966	0.01929	0.01929	+++++	+++++	0.03368	0.03368	25.57969

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INITIAL CALIBRATION DATA

Start Cal Date : 23-DEC-2004 12:59
 End Cal Date : 23-DEC-2004 17:57
 Quant Method : ISTD
 Target Version : 3.40
 Integrator : HP RTE
 Method file : /chem/E.i/122304.b/E-20ml8260B.m
 Cal Date : 27-Dec-2004 11:34 appelhad

Compound	1		2		5		10		30		60		Coefficients ml	m2	BRSD OR R^2
	Level 1	Level 2	Level 2	Level 3	Level 3	Level 4	Level 4	Level 5	Level 5	Level 6	Level 6	Curve			
95 1,1,2,2-Tetrachloroethane	0.55496	0.84206	0.87785	0.93209	0.90149	0.89254	AVRG	0.85017					11.77155		
96 Bromobenzene	0.80975	0.85756	0.83412	0.89593	0.93529	0.96432	AVRG	0.88283					6.78039		
97 1,2,3-Trichloropropane	0.18529	0.17776	0.16294	0.16698	0.17068	0.16891	AVRG	0.17209					4.70747		
99 n-Propylbenzene	1.17151	1.15761	1.07727	1.14860	1.19281	1.21460	AVRG	1.16040					4.07317		
100 2-Chlorotoluene	0.85830	0.91985	0.86360	0.88467	0.91090	0.92531	AVRG	0.89377					3.25034		
101 1,3,5-Trimethylbenzene	3.44461	3.50162	3.30188	3.47126	3.39807	3.25047	AVRG	3.39465					2.92260		
102 4-Chlorotoluene	1.00409	1.02140	0.92731	0.99955	1.03497	0.99694	AVRG	0.99738					3.73808		
103 tert-Butylbenzene	3.91737	3.90636	3.69560	3.87183	3.92433	3.84381	AVRG	3.85989					2.22887		
104 1,2,4-Trimethylbenzene	3.19971	3.26168	3.11225	3.22098	3.16670	3.02223	AVRG	3.16392					2.71326		
105 sec-Butylbenzene	0.92888	0.97948	0.92316	0.99296	1.03035	1.04109	AVRG	0.98265					5.03465		
106 m-Dichlorobenzene	1.50251	1.49980	1.53638	1.54572	1.55637	1.56561	AVRG	1.53440					1.79735		
107 4-Isopropyltoluene	4.32194	4.34767	4.13441	4.34554	4.19081	3.92466	AVRG	4.21084					3.93606		
109 p-dichlorobenzene	1.71365	2.00045	1.72274	1.90689	1.89416	1.79917	AVRG	1.83951					6.17590		
111 n-Butylbenzene	3.83278	4.02802	3.76926	4.03664	3.93222	3.84459	AVRG	3.90842					2.82263		
112 o-Dichlorobenzene	1.25488	1.36933	1.30565	1.40962	1.37560	1.36560	AVRG	1.34678					4.17118		
113 1,2-Dibromo-3-chloropropane	++++	0.11144	0.10085	0.10964	0.11521	0.11985	AVRG	0.11141					6.36156		
114 1,2,4-Trichlorobenzene	0.85376	1.04835	0.95739	1.03254	1.05543	1.08353	AVRG	1.00517					8.49861		

Report Date : 27-Dec-2004 11:34

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STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 23-DEC-2004 12:59
 End Cal Date : 23-DEC-2004 17:57
 Quant Method : ISTD
 Target Version : 3.40
 Integrator : HP RTE
 Method file : /chem/E.i/122304.b/E-20ml8260B.m
 Cal Date : 27-Dec-2004 11:34 appelhad

Compound	1	2	5	10	30	60	Coefficients		MSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	b	m1	or R^2
								m2	
115 Hexachlorobutadiene	0.82132	0.87284	0.83070	0.89401	0.90123	0.90828	AVRG	0.87140	4.27162
116 Naphthalene	0.97746	1.30825	1.13001	1.28941	1.26890	1.32081	AVRG	1.21580	11.15548
117 1,2,3-Trichlorobenzene	0.67342	0.82337	0.74650	0.81495	0.81429	0.84278	AVRG	0.78588	8.14648

Curve	Formula	Units
Averaged	amt = Rsp/ml	Response
Wt Linear	amt = b + Rsp/ml	Response

INITIAL CALIBRATION VERIFICATION

Instrument ID: E i
 Lab File ID: e4917.d
 Analysis Type: WATER

Injection Date: 23-DEC-2004 18:22
 Lab Sample ID: ICV030
 Method File: /chem/E.i/122304.b/E-20ml8260B.m

COMPOUND	EXPECTED	MEASURED	%	MAX
	CONC.	CONC.		
85 1,2-Dichloroethene (total)	60.0000	61.8332	3.1	25.0
83 Xylene (total)	90.0000	89.5855	0.5	25.0
64 dichlorodifluoromethane	30.0000	29.7833	0.7	25.0
1 Chloromethane	30.0000	29.9736	0.1	25.0
4 Vinyl Chloride	30.0000	31.6768	5.6	25.0
2 Bromomethane	30.0000	30.4930	1.6	25.0
5 Chloroethane	30.0000	31.2232	4.1	25.0
11 Trichlorofluoromethane	30.0000	33.3983	11.3	25.0
12 1,1-Dichloroethene	30.0000	33.8041	12.7	25.0
7 Acetone	60.0000	29.3696	6.1	25.0
0 trans-1,2-Dichloroethene	30.0000	32.1926	7.3	25.0
15 1,1-Dichloroethane	30.0000	30.8506	2.8	25.0
93 2,2-Dichloropropane	30.0000	33.5019	11.7	25.0
0 cis-1,2-Dichloroethene	30.0000	29.6406	1.2	25.0
20 2-Butanone	60.0000	59.7409	0.4	25.0
13 Bromochloromethane	30.0000	31.3096	4.4	25.0
17 Chloroform	30.0000	30.4016	1.3	25.0
22 1,1,1-Trichloroethane	30.0000	30.0585	0.2	25.0
94 1,1-Dichloropropene	30.0000	30.9572	3.2	25.0
23 Carbon Tetrachloride	30.0000	30.3076	1.0	25.0
30 Benzene	30.0000	29.8283	0.6	25.0
16 1,2-Dichloroethane	30.0000	31.0375	3.5	25.0
90 Fluorobenzene	10.0000	10.0000	0.0	25.0
29 Trichloroethene	30.0000	30.6855	2.3	25.0
26 1,2-Dichloropropane	30.0000	29.2266	2.6	25.0
34 Dibromomethane	30.0000	29.9311	0.2	25.0
25 Bromodichloromethane	30.0000	29.3546	2.2	25.0
28 cis-1,3-Dichloropropene	30.0000	32.4460	8.2	25.0
38 4-Methyl-2-pentanone	60.0000	58.8206	2.0	25.0
45 Toluene	30.0000	30.9856	3.3	25.0
31 trans-1,3-Dichloropropene	30.0000	33.7753	12.6	25.0
32 1,1,2-Trichloroethane	30.0000	31.0461	3.5	25.0
42 Tetrachloroethene	30.0000	31.4442	4.8	25.0
109 1,3-Dichloropropane	30.0000	32.3403	7.8	25.0
43 2-Hexanone	60.0000	60.1057	0.2	25.0
36 Dibromochloromethane	30.0000	31.5612	5.2	25.0
58 1,2-Dibromoethane	30.0000	32.5399	8.5	25.0
92 1-Chlorohexane	30.0000	27.8501	7.2	25.0

INITIAL CALIBRATION VERIFICATION

Instrument ID: E.i
Lab File ID: e4917.d
Analysis Type: WATER

Injection Date: 23-DEC-2004 18:22
Lab Sample ID: ICV030
Method File: /chem/E.i/122304.b/E-20ml8260B.m

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
39 Chlorobenzene-d5	10.0000	10.0000	0.0	25.0
46 Chlorobenzene	30.0000	29.8527	0.5	25.0
74 1,1,1,2-Tetrachloroethane	30.0000	30.5277	1.8	25.0
47 Ethylbenzene	30.0000	30.0223	0.1	25.0
0 m and p-Xylene	60.0000	59.9720	0.0	25.0
0 o-Xylene	30.0000	29.6135	1.3	25.0
49 Styrene	30.0000	30.2540	0.8	25.0
37 Bromoform	30.0000	31.6558	5.5	25.0
79 isopropyl benzene	30.0000	28.1484	6.2	25.0
40 1,1,2,2-Tetrachloroethane	30.0000	31.5177	5.1	25.0
95 Bromobenzene	30.0000	29.6051	1.3	25.0
50 1,2,3-Trichloropropane	30.0000	27.8221	7.3	25.0
96 n-Propylbenzene	30.0000	29.3123	2.3	25.0
97 2-Chlorotoluene	30.0000	30.0612	0.2	25.0
98 1,3,5-Trimethylbenzene	30.0000	28.2793	5.7	25.0
99 4-Chlorotoluene	30.0000	28.3750	5.4	25.0
100 tert-Butylbenzene	30.0000	28.5904	4.7	25.0
101 1,2,4-Trimethylbenzene	30.0000	28.6257	4.6	25.0
102 sec-Butylbenzene	30.0000	31.1741	3.9	25.0
61 m-Dichlorobenzene	30.0000	28.8575	3.8	25.0
103 4-Isopropyltoluene	30.0000	27.8752	7.1	25.0
91 1,4-Dichlorobenzene-d4	10.0000	10.0000	0.0	25.0
62 p-dichlorobenzene	30.0000	30.1467	0.5	25.0
104 n-Butylbenzene	30.0000	30.0887	0.3	25.0
63 o-Dichlorobenzene	30.0000	29.0475	3.2	25.0
75 1,2-Dibromo-3-chloropropane	30.0000	28.4732	5.1	25.0
105 1,2,4-Trichlorobenzene	30.0000	29.4189	1.9	25.0
106 Hexachlorobutadiene	30.0000	29.4602	1.8	25.0
107 Napthalene	30.0000	29.5160	1.6	25.0
108 1,2,3-Trichlorobenzene	30.0000	28.8168	3.9	25.0

STL Denver

GC/MS Initial Calibration Review Checklist

Instrument ID and Date: E 122304.6

Supp

Check Method Used: Analysis 625 8270 Other SV

524.2 624 8260B Other VOA

VOA Preparation: 5mL 20mL 5035 Low 5035 High 5030 Low 5030 High

Review Items	Level 1		Level 2	Comments
	Yes	No		
Initial Calibration				
1. B/B/D/T/P needs criteria?	/			
2. ICAL date and instrument ID verified?	/			
3. Sufficient number of calibration points used?	/			
4. Reasons for removal of points documented?	/			
5. %RSD or correlation coefficient within method limits?	/			Some pts below RL* removed
6. If KRF used for ICAL, were all compounds within 15% RSD?	/			List all exceptions below (cpd & RSD)
7. Response factors meet criteria?	/			
8. Isomeric pairs checked for correct peak assignment?	/			
9. Data checked for detector saturation?	/			
10. Standards traceability properly documented?	/			
11. Manual integrations documented and checked?	/			
12. 2 nd source ICV recovery 75-125% for DoD projects, 65-135% (±55% of expected for poor performers) for non-DoD?	/			

*Ethylene Oxide High pt. removal,
Lower to 3750 ppb.*

1st Level Reviewer: gfs

Date: 12-27-04

2nd Level Reviewer: DT

Date: 12-28-04

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 23-DEC-2004 12:59
 End Cal Date : 23-DEC-2004 17:57 } main + supp
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.40
 Integrator : HP RTE
 Method file : /chem/E.i/122304.b/E-20ml8260B.m
 Cal Date : 27-Dec-2004 11:35 appelhad
 Curve Type : Average

Calibration File Names:

- Level 1: /chem/E.i/122304.b/e4911.d
- Level 2: /chem/E.i/122304.b/e4912.d
- Level 3: /chem/E.i/122304.b/e4913.d
- Level 4: /chem/E.i/122304.b/e4914.d ✓
- Level 5: /chem/E.i/122304.b/e4915.d
- Level 6: /chem/E.i/122304.b/e4916.d

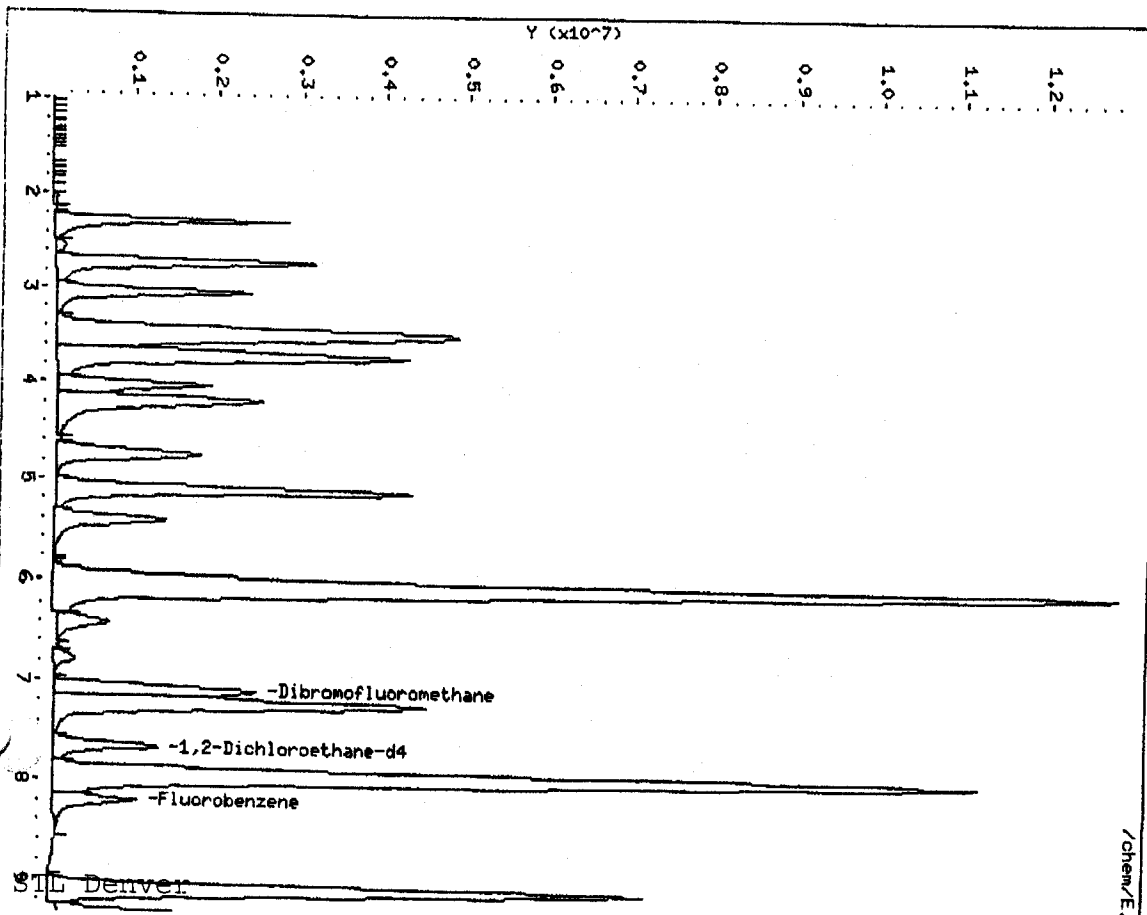
Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	RRF	% RSD
4 Dichlorotetraflouroethane	0.33777	0.37528	0.33565	0.34074	0.34235	0.31761	0.34157	5.494
8 Ethylene Oxide	0.00227	0.00252	0.00238	0.00233	0.00191	++++	0.00228	10.003
10 Dichlorofluoromethane	0.47699	0.54428	0.49155	0.50672	0.48857	0.43316	0.49021	7.428
13 Ethyl Ether	0.09888	0.10944	0.09258	0.09810	0.09397	0.08649	0.09658	7.990
14 1,2-dichloro-1,1,2-trifluoroethane	0.33075	0.36366	0.32659	0.33258	0.33014	0.30565	0.33156	5.610
15 2,2-dichloro-1,1,1-trifluoroethane	0.53680	0.58835	0.53875	0.55668	0.54609	0.50159	0.54471	5.197
18 Trichlorotrifluoroethane	0.32898	0.35338	0.31355	0.33037	0.32814	0.30767	0.32702	4.868
21 Carbon Disulfide	0.53174	0.57499	0.52167	0.54327	0.50690	0.47520	0.52563	6.420
22 2-Propanol	0.00254	0.00257	0.00275	0.00287	0.00279	0.00290	0.00274	5.411
24 Allyl Chloride	0.32214	0.32263	0.32350	0.32925	0.32873	0.31270	0.32316	1.852
25 Methyl acetate	0.04894	0.04805	0.04630	0.04880	0.04783	0.04440	0.04738	3.671
30 Methyl t-butyl ether	0.58107	0.44832	0.40098	0.44071	0.44060	0.41217	0.45398	14.308
31 Hexane	1.98111	2.15704	2.04976	2.11567	2.15416	1.97261	2.07172	4.011
33 Vinyl acetate	0.28454	0.26392	0.24274	0.25252	0.25938	0.24245	0.25759	6.126
36 ETBE	0.73923	0.79850	0.72599	0.75855	0.70642	0.61738	0.72434	8.433
41 Ethyl Acetate	++++	0.09488	0.07891	0.08563	0.08492	0.08118	0.08510	7.184
45 Tetrahydrofuran	++++	0.01931	0.01753	0.01988	0.02114	0.02087	0.01975	7.316
48 Cyclohexane	0.52999	0.59266	0.53838	0.55799	0.54692	0.50175	0.54462	5.559
55 TAME	0.53031	0.56741	0.51840	0.55093	0.52752	0.46799	0.52709	6.446
59 Methyl cyclohexane	0.57070	0.64337	0.60242	0.60427	0.59245	0.55702	0.59504	5.053
60 2-Pentanone	0.07706	0.07142	0.06800	0.07050	0.06899	0.06500	0.07016	5.770
63 Methyl Methacrylate	0.08924	0.10569	0.10054	0.11241	0.11435	0.11091	0.10552	8.933
66 2-nitropropane	0.08306	0.10268	0.10044	0.12114	0.12283	0.12016	0.10839	14.570
67 2-Chloroethyl vinyl ether	0.20526	0.17923	0.14409	0.17405	0.19520	0.20785	0.18428	12.980
73 Ethyl methacrylate	0.84778	0.90618	0.86672	0.92095	0.91943	0.84470	0.88429	4.004

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 23-DEC-2004 12:59
 End Cal Date : 23-DEC-2004 17:57
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.40
 Integrator : HP RTE
 Method file : /chem/E.i/122304.b/E-20ml8260B.m
 Cal Date : 27-Dec-2004 11:35 appelhad
 Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	RRF	% RSD
78 Tetrahydrothiophene	0.30761	0.36991	0.30290	0.33130	0.32665	0.30812	0.32441	7.716
92 cis-1,4-Dichloro-2-Butene	0.04063	0.04545	0.04233	0.04563	0.04522	0.04499	0.04404	4.690
98 t-1,4-Dichloro-2-butene	0.08773	0.09553	0.08655	0.10032	0.10227	0.09695	0.09489	6.820
110 1,2,3-Trimethylbenzene	0.92080	0.96896	0.94218	0.91614	0.91407	0.84626	0.91807	4.453
46 Dibromofluoromethane	0.39498	0.41206	0.39747	0.38693	0.39289	0.38198	0.39438	2.621
52 1,2-Dichloroethane-d4	0.20514	0.22600	0.20775	0.20894	0.21385	0.19888	0.21009	4.384
70 Toluene-d8	4.00218	4.33986	4.30878	4.10613	4.11094	3.76241	4.10505	5.164
94 Bromofluorobenzene	2.29579	2.35484	2.33539	2.20723	2.21869	2.07285	2.24747	4.647



Data File: /chem/E.i/122304.b/e4916.d
 Date : 23-DEC-2004 17:57
 Client ID: SUPP060
 Sample Info: SUPP060,,260/265-04
 Column phase: DB624

/chem/E.

GLPMS Volatile Analysis

Instrument 2

5972 MSD

Column 75M	Phase DB-624	Inj. Temp 200C	Inj. Time 2 min.	Ramp Rate 5C/min	Final Temp 65C	Flow Control 18	Press. Psi 20	Type MS	Vac. Range 10^-6	Source Temp -175C	Mass Range 35-300/2-2
			0 min.	12C/min	155C						
			0 min.	25C/min	210C						

DEN-MS-0010 (62606/624/524.2)
(Circle as appropriate)

QuantIMS Batch: 4364477

Target Batch (Directory): E122904.6

Comments

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date	Initials	File Number	IS OK	SS OK	DL OK	24 hr	pH	Comments	ALS
BFB			DJ.	1 uL	12/24/04	YTB	E498280				✓		MENGA 23504 948	10
Mainc16			70	570 uL			481828				✓		254/219/261-04	11
Supp016							8276				✓		260/265/261-04	14
LCS	4770	GI0AL1AC		10 uL			8377				✓		264/261-04	15
VB1K		A		20 uL			8478				✓		261-04	11
D4L180244		GI6LF1AA					8579				✓			12
BFB	18	F D					8680				✓			13
Supp016	1D	F E					8781				✓		NEM	14
Supp016	3TB	H A					8882				✓			15
D4L200141	4	GIHJ91AA					8983				✓			16
	5	KA					9084				✓		Date Labt 1.11	1
	6	C					9185				✓			2
	7	D					9286				✓			3
	8	E					9387				✓			4
	9	F					9488				✓			5
	10TB	G					9589				✓			6
D4L200142	1	GIJ891AA		0.5			9690				✓			7
	2	AN					9791				✓			8
	3	RP		2			9892				✓			9
D4L180227	1	GI6TF1AAE		20			9993				✓			

Revised 6/2003

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Public/OM/forms/VOA Logbook03.xls

Instrument 3
5972 MSD

GC/MS Volatile Analysis

STL Denver

Column	Phase	Inj. Temp	Final Temp	Flow Control	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
75M	DB-624	200C	65C	18	20	MS	10^-6	-175C	35-300/2^2
			155C						
			210C						

Comments DEN-MS-0010 (6260B/624/524.2)
(Circle as appropriate)

Target Batch (Directory): E 228042^b (cont.)

QuamIMS Batch: 4364477

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date	Initials	File Number	IS OK	SS OK	DIL OK	24 hr	pH	Comments	ALS
D4L180227	2	G19F71AA	20	20	12/28/04	MSB	E5000	✓	✓	✓	✓	<2		10
	3TB						01	✓	✓	✓	✓	<2		11
D4L200185	1	G1H3G1AA					02	✓	✓	✓	✓	<2		12
	2	4A					03	✓	✓	✓	✓	<2		13
	3	4E					04	✓	✓	✓	✓	<2		14
	4	4G					05	✓	✓	✓	✓	<2		15
	5TB	5T					06	✓	✓	✓	✓	<2	23062	16

12/28/04
MSB

Date : 29-DEC-2004 12:31

Client ID: BFB

Instrument: E.i

Sample Info: BFB,,235-04

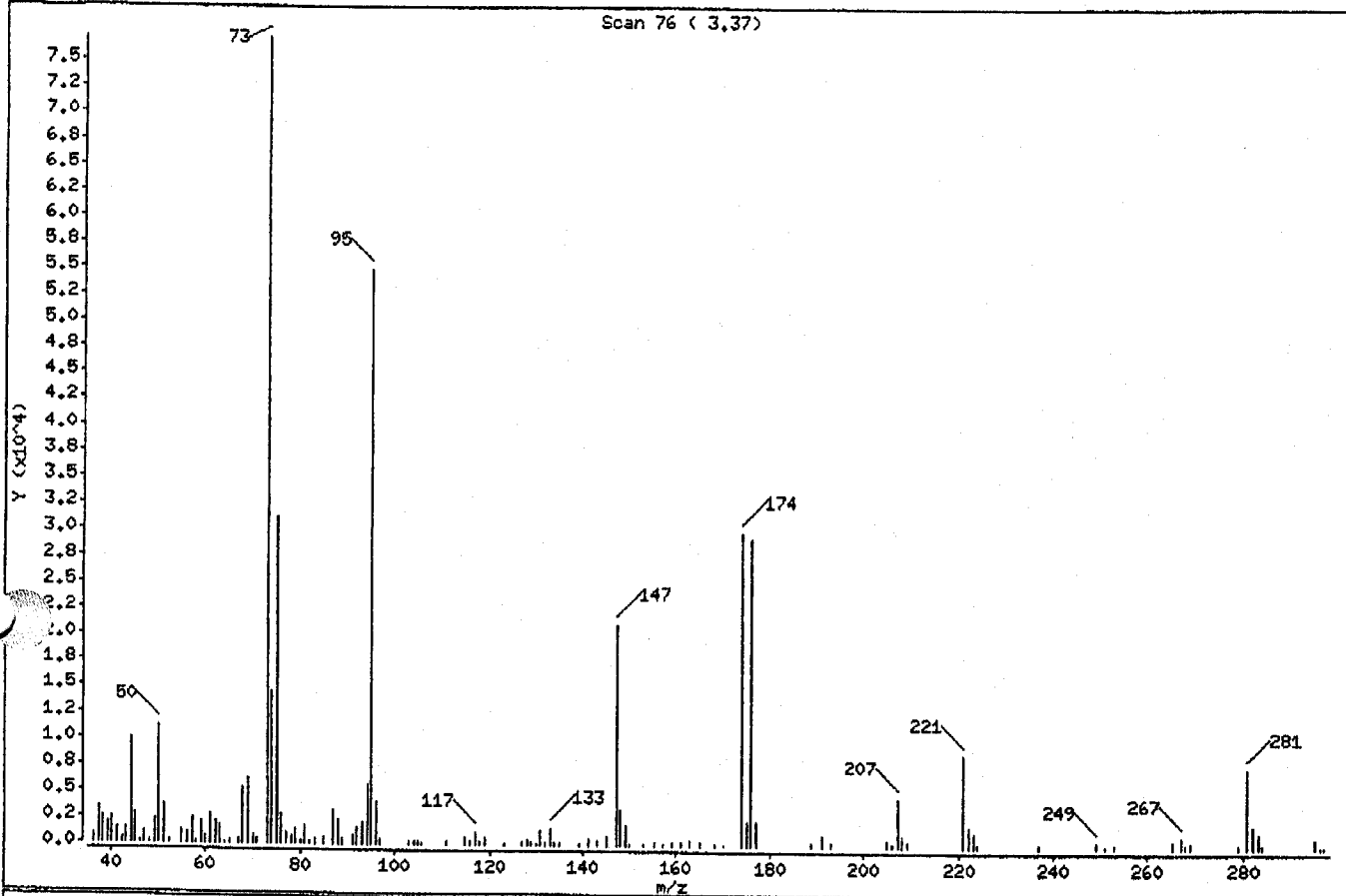
Volume Injected (uL): 1.0

Operator: zhoh

Column phase: DB624

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.38
75	30.00 - 60.00% of mass 95	56.96
96	5.00 - 9.00% of mass 95	7.51
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	54.49
175	5.00 - 9.00% of mass 174	4.09 (7.51)
176	95.00 - 101.00% of mass 174	53.57 (98.31)
177	5.00 - 9.00% of mass 176	4.07 (7.59)

Report Date: 29-Dec-2004 13:46

Calibration History

Method : /chem/E.i/122904a.b/E-20ml8260B.m
Start Cal Date: 23-DEC-2004 12:59
End Cal Date : 23-DEC-2004 17:57

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
23-DEC-2004 15:53	2-suppl	/chem/E.i/122304.b/e4911.d
23-DEC-2004 12:59	1-main	/chem/E.i/122304.b/e4904.d

Cal Level: 2 , Cal Amount: 2.00000		
23-DEC-2004 16:18	2-suppl	/chem/E.i/122304.b/e4912.d
23-DEC-2004 13:24	1-main	/chem/E.i/122304.b/e4905.d

Cal Level: 3 , Cal Amount: 5.00000		
23-DEC-2004 16:42	2-suppl	/chem/E.i/122304.b/e4913.d
23-DEC-2004 13:49	1-main	/chem/E.i/122304.b/e4906.d

Cal Level: 4 , Cal Amount: 10.0000		
23-DEC-2004 17:07	2-suppl	/chem/E.i/122304.b/e4914.d
23-DEC-2004 14:14	1-main	/chem/E.i/122304.b/e4907.d

Cal Level: 5 , Cal Amount: 30.0000		
23-DEC-2004 17:32	2-suppl	/chem/E.i/122304.b/e4915.d
23-DEC-2004 14:38	1-main	/chem/E.i/122304.b/e4908.d

Cal Level: 6 , Cal Amount: 60.0000		
23-DEC-2004 17:57	2-suppl	/chem/E.i/122304.b/e4916.d
23-DEC-2004 15:03	1-main	/chem/E.i/122304.b/e4909.d

Continuing Calibration

29-DEC-2004 13:06	2-suppl	/chem/E.i/122904a.b/e4982.d
29-DEC-2004 12:41	1-main	/chem/E.i/122904a.b/e4981.d

STL Denver

GC/MS Continuing Calibration Review Checklist

Instrument ID and Date: E 122904

Check Method Used: Analysis 625 8270 Other SV _____

524.2 624 8260B Other VOA.

VOA Preparation 5mL 20mL 5035 Low 5035 High 5030 Low 5030 High

Review Items	Level 1		Level 2	Comments
	Yes	No		
Continuing Calibration				
1. BFB/DFTPP meets criteria?	/			
2. ICAL date and instrument ID verified?	/		/	
3. Do SPCC RRFs and CCC %Ds meet method criteria?	/		/	
4. Does %D meet criteria for non-CCC compounds?	/		/	
5. Isomeric pairs checked for correct peak assignment?	/		/	
6. Standards traceability properly documented?	/		/	
7. Manual integrations documented and checked?	/		/	
8. Do the Internal Standards meet criteria for %D against ICAL?	/		/	

1st Level Reviewer: JP Date: 12-29-04

2nd Level Reviewer: AP Date: 12/29/04

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: E.i
 Lab File ID: e4981.d
 Analysis Type: WATER

Injection Date: 29-DEC-2004 12:41
 Lab Sample ID: MAIN010
 Method File: /chem/E.i/122904a.b/E-20ml8260B.m

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
85 1,2-Dichloroethene (total)	20.0000	19.9967	0.0	50.0
83 Xylene (total)	30.0000	31.1013	3.7	50.0
64 dichlorodifluoromethane	10.0000	8.3605	16.4	50.0
1 Chloromethane	10.0000	8.5178	14.8	50.0
4 Vinyl Chloride	10.0000	8.4152	15.8	20.0
2 Bromomethane	10.0000	8.8763	11.2	50.0
5 Chloroethane	10.0000	10.3361	3.4	50.0
11 Trichlorofluoromethane	10.0000	9.1228	8.8	50.0
3 Ethanol	500.0000	455.7440	8.9	50.0
8 Acrolein	100.0000	94.1063	5.9	50.0
12 1,1-Dichloroethene	10.0000	10.5636	5.6	20.0
7 Acetone	40.0000	40.6677	1.7	50.0
21 Iodomethane	10.0000	9.6828	3.2	50.0
68 Acetonitrile	100.0000	93.4798	6.5	50.0
6 Methylene Chloride	10.0000	9.9198	0.8	50.0
86 tert-Butyl alcohol	200.0000	174.0241	13.0	50.0
9 Acrylonitrile	100.0000	95.7150	4.3	50.0
0 trans-1,2-Dichloroethene	10.0000	10.1890	1.9	50.0
15 1,1-Dichloroethane	10.0000	10.0151	0.2	50.0
84 Isopropyl ether	50.0000	50.6235	1.2	50.0
69 Chloroprene	10.0000	11.3592	13.6	50.0
93 2,2-Dichloropropane	10.0000	10.8521	8.5	50.0
0 cis-1,2-Dichloroethene	10.0000	9.8077	1.9	50.0
20 2-Butanone	40.0000	35.5303	11.2	50.0
70 Propionitrile	100.0000	95.9045	4.1	50.0
72 Methacrylonitrile	100.0000	101.3198	1.3	50.0
13 Bromochloromethane	10.0000	8.9295	10.7	50.0
17 Chloroform	10.0000	9.7814	2.2	20.0
22 1,1,1-Trichloroethane	10.0000	9.9201	0.8	50.0
94 1,1-Dichloropropene	10.0000	10.3076	3.1	50.0
23 Carbon Tetrachloride	10.0000	9.7374	2.6	50.0
71 Isobutanol	200.0000	174.9864	12.5	50.0
30 Benzene	10.0000	9.7099	2.9	50.0
16 1,2-Dichloroethane	10.0000	9.4049	6.0	50.0
88 n-Butanol	200.0000	161.5723	19.2	50.0
29 Trichloroethene	10.0000	9.5828	4.2	50.0
26 1,2-Dichloropropane	10.0000	9.6256	3.7	20.0
34 Dibromomethane	10.0000	9.0317	9.7	50.0
57 1,4-Dioxane	500.0000	376.0505	24.8	50.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: E.i
 Lab File ID: e4981.d
 Analysis Type: WATER

Injection Date: 29-DEC-2004 12:41
 Lab Sample ID: MAIN010
 Method File: /chem/E.i/122904a.b/E-20ml8260B.m

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		%D
25 Bromodichloromethane	10.0000	9.4549	5.5	50.0
28 cis-1,3-Dichloropropene	10.0000	9.9523	0.5	50.0
38 4-Methyl-2-pentanone	40.0000	38.8062	3.0	50.0
45 Toluene	10.0000	10.3372	3.4	20.0
31 trans-1,3-Dichloropropene	10.0000	10.0463	0.5	50.0
32 1,1,2-Trichloroethane	10.0000	9.4360	5.6	50.0
42 Tetrachloroethene	10.0000	10.2353	2.4	50.0
109 1,3-Dichloropropane	10.0000	9.9550	0.4	50.0
43 2-Hexanone	40.0000	40.6311	1.6	50.0
36 Dibromochloromethane	10.0000	9.4203	5.8	50.0
58 1,2-Dibromoethane	10.0000	9.4028	6.0	50.0
92 1-Chlorohexane	10.0000	11.1037	11.0	50.0
46 Chlorobenzene	10.0000	9.7989	2.0	50.0
74 1,1,1,2-Tetrachloroethane	10.0000	9.7134	2.9	50.0
47 Ethylbenzene	10.0000	10.4880	4.9	20.0
o m and p-Xylene	20.0000	21.0329	5.2	50.0
o-Xylene	10.0000	10.0684	0.7	50.0
49 Styrene	10.0000	10.0842	0.8	50.0
37 Bromoform	10.0000	8.8101	11.9	50.0
79 isopropyl benzene	10.0000	10.2097	2.1	50.0
76 Cyclohexanone	400.0000	223.8651	44.0	50.0
40 1,1,2,2-Tetrachloroethane	10.0000	9.6630	3.4	50.0
95 Bromobenzene	10.0000	9.1723	8.3	50.0
50 1,2,3-Trichloropropane	10.0000	8.2541	17.5	50.0
96 n-Propylbenzene	10.0000	9.8005	2.0	50.0
97 2-Chlorotoluene	10.0000	9.5704	4.3	50.0
98 1,3,5-Trimethylbenzene	10.0000	10.1575	1.6	50.0
99 4-Chlorotoluene	10.0000	9.5995	4.0	50.0
100 tert-Butylbenzene	10.0000	9.7050	2.9	50.0
101 1,2,4-Trimethylbenzene	10.0000	9.9886	0.1	50.0
102 sec-Butylbenzene	10.0000	10.2299	2.3	50.0
61 m-Dichlorobenzene	10.0000	9.6710	3.3	50.0
103 4-Isopropyltoluene	10.0000	10.0127	0.1	50.0
62 p-dichlorobenzene	10.0000	9.5541	4.5	50.0
104 n-Butylbenzene	10.0000	10.8675	8.7	50.0
63 o-Dichlorobenzene	10.0000	9.3977	6.0	50.0
75 1,2-Dibromo-3-chloropropane	10.0000	8.1567	18.4	50.0
105 1,2,4-Trichlorobenzene	10.0000	9.1862	8.1	50.0
106 Hexachlorobutadiene	10.0000	10.2634	2.6	50.0

N7C

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: E.i
Lab File ID: e4981.d
Analysis Type: WATER

Injection Date: 29-DEC-2004 12:41
Lab Sample ID: MAIN010
Method File: /chem/E.i/122904a.b/E-20ml8260B.m

COMPOUND	EXPECTED	MEASURED	MAX	
	CONC.	CONC.	%D	%D
107 Napthalene	10.0000	8.1749	18.3	50.0
108 1,2,3-Trichlorobenzene	10.0000	8.8390	11.6	50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: E.i Injection Date: 29-DEC-2004 12:41
 Lab File ID: e4981.d Init. Calibration Date(s): 12/23/4 12/23/4
 Analysis Type: WATER Init. Calibration Times: 12:59 17:57
 Lab Sample ID: MAIN010 Method File: /chem/E.i/122904a.b/E-20ml8260B.m
 Quant Type: ISTD

COMPOUND	RRF	RF10	MIN RRF	MIN %D	MAX %D
M 1 1,2-Dichloroethene (total)	0.236	0.235	0.010	0.1	50.0
M 2 Xylene (total)	6.542	6.788	0.010	-3.8	50.0
3 dichlorodifluoromethane	0.434	0.363	0.010	16.4	50.0
5 Chloromethane	0.209	0.178	0.100	14.8	50.0
6 Vinyl Chloride	0.225	0.190	0.020	15.8	20.0
7 Bromomethane	0.152	0.135	0.010	11.2	50.0
9 Chloroethane	0.128	0.132	0.010	-3.4	50.0
11 Trichlorofluoromethane	0.572	0.522	0.010	8.8	50.0
12 Ethanol	0.000	0.000	0.000	8.9	50.0
16 Acrolein	0.008	0.007	0.001	5.9	50.0
17 1,1-Dichloroethene	0.173	0.183	0.020	-5.6	20.0
19 Acetone	0.014	0.015	0.001	-1.7	50.0
20 Iodomethane	0.296	0.287	0.010	3.2	50.0
23 Acetonitrile	0.004	0.004	0.000	6.5	50.0
26 Methylene Chloride	0.184	0.193	0.010	N/A	N/A
27 tert-Butyl alcohol	0.006	0.005	0.001	13.0	50.0
28 Acrylonitrile	0.017	0.016	0.001	4.3	50.0
29 trans-1,2-Dichloroethene	0.223	0.227	0.010	-1.9	50.0
32 1,1-Dichloroethane	0.495	0.496	0.100	-0.2	50.0
34 Isopropyl ether	0.207	0.209	0.010	-1.2	50.0
35 Chloroprene	0.351	0.399	0.010	-13.6	50.0
37 2,2-Dichloropropane	0.488	0.529	0.010	-8.5	50.0
38 cis-1,2-Dichloroethene	0.248	0.243	0.010	1.9	50.0
39 2-Butanone	0.031	0.028	0.010	11.2	50.0
40 Propionitrile	0.007	0.007	0.001	4.1	50.0
42 Methacrylonitrile	0.046	0.047	0.010	-1.3	50.0
43 Bromochloromethane	0.102	0.091	0.010	10.7	50.0
44 Chloroform	0.513	0.502	0.020	2.2	20.0
47 1,1,1-Trichloroethane	0.546	0.541	0.010	0.8	50.0
49 1,1-Dichloropropene	0.441	0.455	0.010	-3.1	50.0
50 Carbon Tetrachloride	0.487	0.474	0.010	2.6	50.0
51 Isobutanol	0.002	0.002	0.000	12.5	50.0
53 Benzene	0.872	0.847	0.010	2.9	50.0
54 1,2-Dichloroethane	0.218	0.205	0.010	6.0	50.0
57 n-Butanol	0.002	0.001	0.000	19.2	50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: E.i
 Lab File ID: e4981.d
 Analysis Type: WATER
 Lab Sample ID: MAIN010
 Quant Type: ISTD

Injection Date: 29-DEC-2004 12:41
 Init. Calibration Date(s): 12/23/4 12/23/4
 Init. Calibration Times: 12:59 17:57
 Method File: /chem/E.i/122904a.b/E-20ml8260B.m

COMPOUND	RRF	RF10	MIN RRF	MAX RRF	MIN %D	MAX %D
58 Trichloroethene	0.325	0.311	0.010	4.2	50.0	
61 1,2-Dichloropropane	0.276	0.266	0.020	3.7	20.0	
62 Dibromomethane	0.120	0.109	0.010	9.7	50.0	
64 1,4-Dioxane	0.001	0.001	0.000	24.8	50.0	
65 Bromodichloromethane	0.426	0.403	0.010	5.5	50.0	
68 cis-1,3-Dichloropropene	1.872	1.863	0.010	0.5	50.0	
69 4-Methyl-2-pentanone	0.513	0.480	0.010	N/A	N/A	
71 Toluene	4.775	4.937	0.020	-3.4	20.0	
72 trans-1,3-Dichloropropene	1.314	1.320	0.010	-0.5	50.0	
74 1,1,2-Trichloroethane	0.701	0.662	0.010	5.6	50.0	
75 Tetrachloroethane	1.333	1.364	0.010	-2.4	50.0	
76 1,3-Dichloropropane	1.268	1.262	0.010	0.4	50.0	
77 2-Hexanone	0.294	0.298	0.010	-1.6	50.0	
79 Dibromochloromethane	1.264	1.191	0.010	5.8	50.0	
80 1,2-Dibromoethane	0.833	0.784	0.010	6.0	50.0	
82 1-Chlorohexane	2.508	2.785	0.010	-11.0	50.0	
83 Chlorobenzene	3.122	3.059	0.300	2.0	50.0	
84 1,1,1,2-Tetrachloroethane	1.454	1.412	0.010	2.9	50.0	
85 Ethylbenzene	1.661	1.742	0.010	-4.9	20.0	
86 m and p-Xylene	2.240	2.355	0.010	-5.2	50.0	
88 o-Xylene	2.063	2.077	0.010	-0.7	50.0	
89 Styrene	3.174	3.201	0.010	-0.8	50.0	
90 Bromoform	0.624	0.550	0.101	11.9	50.0	
91 isopropyl benzene	6.785	6.928	0.010	-2.1	50.0	
93 Cyclohexanone	0.034	0.019	0.001	44.0	50.0	NTL
95 1,1,2,2-Tetrachloroethane	0.850	0.822	0.300	3.4	50.0	
96 Bromobenzene	0.883	0.810	0.010	8.3	50.0	
97 1,2,3-Trichloropropane	0.172	0.142	0.010	17.5	50.0	
99 n-Propylbenzene	1.160	1.137	0.010	2.0	50.0	
100 2-Chlorotoluene	0.894	0.855	0.010	4.3	50.0	
101 1,3,5-Trimethylbenzene	3.395	3.448	0.010	-1.6	50.0	
102 4-Chlorotoluene	0.997	0.957	0.010	4.0	50.0	
103 tert-Butylbenzene	3.860	3.746	0.010	2.9	50.0	
104 1,2,4-Trimethylbenzene	3.164	3.160	0.010	0.1	50.0	
105 sec-Butylbenzene	0.983	1.005	0.010	-2.3	50.0	

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: E.i
Lab File ID: e4981.d
Analysis Type: WATER
Lab Sample ID: MAIN010
Quant Type: ISTD

Injection Date: 29-DEC-2004 12:41
Init. Calibration Date(s): 12/23/4 12/23/4
Init. Calibration Times: 12:59 17:57
Method File: /chem/E.i/122904a.b/E-20ml8260B.m

COMPOUND	RF10		MIN		MAX	
	RRF	RF10	RRF	%D	%D	%D
106 m-Dichlorobenzene	1.534	1.484	0.010	3.3	50.0	
107 4-Isopropyltoluene	4.211	4.216	0.010	-0.1	50.0	
109 p-dichlorobenzene	1.840	1.757	0.010	4.5	50.0	
111 n-Butylbenzene	3.908	4.247	0.010	-8.7	50.0	
112 o-Dichlorobenzene	1.347	1.266	0.010	6.0	50.0	
113 1,2-Dibromo-3-chloropropane	0.111	0.091	0.010	18.4	50.0	
114 1,2,4-Trichlorobenzene	1.005	0.923	0.010	8.1	50.0	
115 Hexachlorobutadiene	0.871	0.894	0.010	-2.6	50.0	
116 Napthalene	1.216	0.994	0.010	18.3	50.0	
117 1,2,3-Trichlorobenzene	0.786	0.695	0.010	11.6	50.0	

Internal Standard
Check Report

Instrument ID: E.i
Lab File ID: e4981.d
Analysis Type: WATER

Injection Date: 29-DEC-2004 12:41
Lab Sample ID: MAIN010
Method File: /chem/E.i/122904a.b/E-20ml8260B.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
Fluorobenzene	2163202	2651503	8.195	8.229	122.6
Chlorobenzene-d5	450064	511681	12.671	12.688	113.7
1,4-Dichlorobenzene-d4	683117	772710	15.684	15.701	113.1

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: E.i
 Lab File ID: e4982.d
 Analysis Type: WATER

Injection Date: 29-DEC-2004 13:06
 Lab Sample ID: SUPP010
 Method File: /chem/E.i/122904a.b/E-20ml8260B.m

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
121 Dichlorotetraflouroethane	10.0000	11.3720	13.7	50.0
110 Ethylene Oxide	1250.0000	1271.4887	1.7	50.0
87 Dichlorofluoromethane	10.0000	9.7884	2.1	50.0
117 1,2-dichloro-1,1,2-trifluoroe	10.0000	8.6286	13.7	50.0
77 Ethyl Ether	10.0000	8.9195	10.8	50.0
116 2,2-dichoro-1,1,1-trifluoroet	10.0000	9.2964	7.0	50.0
65 Trichlorotrifluoroethane	10.0000	8.8639	11.4	50.0
118 2-Propanol	200.0000	178.3135	10.8	50.0
10 Carbon Disulfide	10.0000	9.5835	4.2	50.0
67 Allyl Chloride	10.0000	10.1211	1.2	50.0
122 Methyl acetate	50.0000	43.3393	13.3	50.0
53 Methyl t-butyl ether	10.0000	7.7752	22.2	50.0
54 Hexane	10.0000	10.1941	1.9	50.0
24 Vinyl acetate	20.0000	16.9548	15.2	50.0
123 ETBE	50.0000	41.5516	16.9	50.0
78 Ethyl Acetate	20.0000	15.8941	20.5	50.0
56 Tetrahydrofuran	20.0000	15.6713	21.6	50.0
89 Dibromofluoromethane	10.0000	8.9270	10.7	50.0
114 Cyclohexane	10.0000	9.0226	9.8	50.0
303 1,2-Dichloroethane-d4	10.0000	8.7434	12.6	50.0
124 TAME	50.0000	40.1547	19.7	50.0
125 Methyl cyclohexane	10.0000	8.5679	14.3	50.0
119 2-Pentanone	40.0000	30.8507	22.9	50.0
73 Methyl Methacrylate	20.0000	17.4334	12.8	50.0
82 2-nitropropane	10.0000	6.2889	37.1	50.0
35 2-Chloroethyl vinyl ether	10.0000	9.8464	1.5	50.0
301 Toluene-d8	10.0000	9.8660	1.3	50.0
41 Ethyl methacrylate	20.0000	16.6132	16.9	50.0
127 Tetrahydrothiophene	10.0000	7.8788	21.2	50.0
120 cis-1,4-Dichloro-2-Butene	10.0000	7.0666	29.3	50.0
302 Bromofluorobenzene	10.0000	9.7544	2.5	50.0
60 t-1,4-Dichloro-2-butene	10.0000	8.0133	19.9	50.0
126 1,2,3-Trimethylbenzene	10.0000	7.9194	20.8	50.0

↓ J/UJ

NTC

NTC

NTC

NTC

↓ H/UJ NTC

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: E.i
 Lab File ID: e4982.d
 Analysis Type: WATER
 Lab Sample ID: SUPP010
 Quant Type: ISTD

Injection Date: 29-DEC-2004 13:06
 Init. Calibration Date(s): 12/23/4 12/23/4
 Init. Calibration Times: 12:59 17:57
 Method File: /chem/E.i/122904a.b/E-20ml8260B.m

COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D
\$ 46 Dibromofluoromethane	0.394	0.352	0.010	10.7	50.0
\$ 52 1,2-Dichloroethane-d4	0.210	0.184	0.010	12.6	50.0
\$ 70 Toluene-d8	4.105	4.050	0.010	1.3	50.0
\$ 94 Bromofluorobenzene	2.247	2.192	0.010	2.5	50.0
4 Dichlorotetrafluoroethane	0.342	0.388	0.010	-13.7	50.0
8 Ethylene Oxide	0.002	0.002	0.001	-1.7	50.0
10 Dichlorofluoromethane	0.490	0.480	0.010	2.1	50.0
13 Ethyl Ether	0.097	0.086	0.010	10.8	50.0
14 1,2-dichloro-1,1,2-trifluor	0.332	0.286	0.010	13.7	50.0
15 2,2-dichoro-1,1,1-trifluoro	0.545	0.506	0.010	7.0	50.0
18 Trichlorotrifluoroethane	0.327	0.290	0.010	11.4	50.0
21 Carbon Disulfide	0.526	0.504	0.010	4.2	50.0
22 2-Propanol	0.003	0.002	0.001	10.8	50.0
24 Allyl Chloride	0.323	0.327	0.010	-1.2	50.0
25 Methyl acetate	0.047	0.041	0.001	13.3	50.0
30 Methyl t-butyl ether	0.454	0.353	0.010	22.2	50.0
31 Hexane	2.072	2.112	0.010	-1.9	50.0
33 Vinyl acetate	0.258	0.218	0.010	15.2	50.0
36 ETBE	0.724	0.602	0.010	16.9	50.0
41 Ethyl Acetate	0.085	0.068	0.010	20.5	50.0
45 Tetrahydrofuran	0.020	0.015	0.003	21.6	50.0
48 Cyclohexane	0.545	0.491	0.010	9.8	50.0
55 TAME	0.527	0.423	0.010	19.7	50.0
59 Methyl cyclohexane	0.595	0.510	0.010	14.3	50.0
60 2-Pentanone	0.070	0.054	0.010	22.9	50.0
63 Methyl Methacrylate	0.106	0.092	0.010	12.8	50.0
66 2-nitropropane	0.108	0.068	0.010	37.1	50.0
67 2-Chloroethyl vinyl ether	0.184	0.181	0.010	1.5	50.0
73 Ethyl methacrylate	0.884	0.735	0.010	16.9	50.0
78 Tetrahydrothiophene	0.324	0.256	0.010	21.2	50.0
92 cis-1,4-Dichloro-2-Butene	0.044	0.031	0.010	29.3	50.0
98 t-1,4-Dichloro-2-butene	0.095	0.076	0.010	19.9	50.0
110 1,2,3-Trimethylbenzene	0.918	0.727	0.010	20.8	50.0

Internal Standard
Check Report

Instrument ID: E.i
Lab File ID: e4982.d
Analysis Type: WATER

Injection Date: 29-DEC-2004 13:06
Lab Sample ID: SUPP010
Method File: /chem/E.i/122904a.b/E-20ml8260B.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
Fluorobenzene	2276026	2645534	8.212	8.213	116.2
Chlorobenzene-d5	514893	556629	12.671	12.689	108.1
1,4-Dichlorobenzene-d4	710391	790099	15.684	15.702	111.2

STL Denver

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: E.i
 Lab File ID: e4985.d
 Lab Smp Id: G1GLF1AA
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: zhouh

Calibration Date: 12/29/4
 Calibration Time: 1306
 Client Smp ID: ~~BAR-G-72790H-INFLOW~~
 Level: LOW
 Sample Type: WATER

Method File: /chem/E.i/122904a.b/E-20ml8260B.m
 Misc Info:

→ SUPP010

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	2645534	1322767	5291068	2881453	8.92
81 Chlorobenzene-d5	556629	278314	1113258	624080	12.12
108 1,4-Dichlorobenze	790099	395050	1580198	898419	13.71

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	8.21	7.71	8.71	8.23	0.20
81 Chlorobenzene-d5	12.69	12.19	13.19	12.69	-0.01
8 1,4-Dichlorobenze	15.70	15.20	16.20	15.70	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Denver

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: E.i
 Lab File ID: e4988.d
 Lab Smp Id: G1GLH1AA
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: zhouh
 Method File: /chem/E.i/122904a.b/E-20ml8260B.m
 Misc Info:

Calibration Date: 12/29/4
 Calibration Time: 1306
 Client Smp ID: BAR-K-TBLK1
 Level: LOW
 Sample Type: WATER

→ SUPPO10

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	2645534	1322767	5291068	2500008	-5.50
81 Chlorobenzene-d5	556629	278314	1113258	566223	1.72
108 1,4-Dichlorobenze	790099	395050	1580198	854390	8.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	8.21	7.71	8.71	8.21	0.00
81 Chlorobenzene-d5	12.69	12.19	13.19	12.67	-0.14
108 1,4-Dichlorobenze	15.70	15.20	16.20	15.69	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Denver

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: E.i
 Lab File ID: e4981.d
 Lab Smp Id: MAIN010
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: zhouh
 Method File: /chem/E.i/122904a.b/E-20ml8260B.m
 Misc Info:

Calibration Date: 12/29/4
 Calibration Time: 1241
 Client Smp ID: MAIN010
 Level: LOW
 Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	2651503	1325752	5303006	2651503	0.00
81 Chlorobenzene-d5	511681	255840	1023362	511681	0.00
108 1,4-Dichlorobenze	772710	386355	1545420	772710	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	8.23	7.73	8.73	8.23	0.00
81 Chlorobenzene-d5	12.69	12.19	13.19	12.69	0.00
108 1,4-Dichlorobenze	15.70	15.20	16.20	15.70	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

STL Denver

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: E.i
Lab File ID: e4982.d
Lab Smp Id: SUPP010
Analysis Type: VOA
Quant Type: ISTD
Operator: zhouh
Method File: /chem/E.i/122904a.b/E-20ml8260B.m
Misc Info:

Calibration Date: 12/29/4
Calibration Time: 1241
Client Smp ID: SUPP010
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	2651503	1325752	5303006	2645534	-0.23
81 Chlorobenzene-d5	511681	255840	1023362	556629	8.78
108 1,4-Dichlorobenze	772710	386355	1545420	790099	2.25

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	8.23	7.73	8.73	8.21	-0.20
81 Chlorobenzene-d5	12.69	12.19	13.19	12.69	0.01
108 1,4-Dichlorobenze	15.70	15.20	16.20	15.70	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/30/04
Time: 13:39:48

LEV	1	2
1	1	2
Blank		
Check		
MS/MSD		

Weights/Volumes
Spike & Surrogate Worksheet
Vial contains correct volume
Labels, greenbars, worksheets
computer batch: correct & all match
Anomalies to Extraction Method

Expanded Deliverable
COC Completed
Bench Sheet Copied
Package Submitted to Analytical Group
Bench Sheet Copied per COC

Extractionist: _____

Concentrationist: _____

* QC BATCH: 4364477 *
* PREP DATE: 12/29/04 12:31
* COMP DATE: 12/29/04 12:31

Reviewer/Date: _____ / 0/00/00

Volatile Organics GC/MS (8260B)
PURGE AND TRAP - 25 mL purge (waters)

EXTR	ANL	LOT#	MSRUN#	TEST	EXT	MTH	MATRIX	INIT/VOL	PH'S	ADJ1	ADJ2	EXTRACTION	VOL	SPIKE	STANDARD/ SURROGATE ID	
EXP	DUE	WORK	ORDER	FLGS				WT/VOL	INIT	ADJ1	ADJ2	EXTRACTION	VOL			
0/00/00	12/30/04	D4L180227-001	GIGF8-1-AA	DR	25	QK	WATER	20mL 20.00mL	NA	NA	NA	NA	.0	.0		
COMMENTS:																
0/00/00	12/30/04	D4L180227-002	GIGF7-1-AA	DR	25	QK	WATER	20mL 20.00mL	NA	NA	NA	NA	.0	.0		
COMMENTS:																
0/00/00	12/30/04	D4L180227-003	GIGF8-1-AA	DR	25	QK	WATER	20mL 20.00mL	NA	NA	NA	NA	.0	.0		
COMMENTS:																
0/00/00	1/03/05	D4L180244-001	GIGLF-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	NA	.0	.0		
COMMENTS:																
0/00/00	1/03/05	D4L180244-001	GIGLF-1-ADS	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	NA	.0	.0		
COMMENTS:																
0/00/00	1/03/05	D4L180244-001	GIGLF-1-AED	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	NA	.0	.0		
COMMENTS:																
0/00/00	1/03/05	D4L180244-001	GIGLF-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	NA	.0	.0		
COMMENTS:																

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/30/04
Time: 13:39:48

* QC BATCH: 4364477 *
* PREP DATE: 12/29/04 12:31 *
* COMP DATE: 12/29/04 12:31 *

EXTR EXPR	ANL DUE	LOT# WORK ORDER	MSRUN#/ TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH'S ADJ1	ADJ2	EXTRACTION VOL	EXCHANGE VOL	SOLVENTS VOL	STANDARD/ SURROGATE ID
0/00/00	1/04/05	D4L200141-004 GIHJ9-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	1/04/05	D4L200141-006 GIHJC-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	1/04/05	D4L200141-007 GIHKD-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	1/04/05	D4L200141-008 GIHKE-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	1/04/05	D4L200141-009 GIHKF-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	1/04/05	D4L200141-010 GIHKG-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	1/10/05	D4L200185-001 GIH3G-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	1/10/05	D4L200185-002 GIH4A-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	1/10/05	D4L200185-003 GIH4E-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	1/10/05	D4L200185-004 GIH4G-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:													

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/30/04
Time: 13:39:48

* QC BATCH: 4364477 *
* PREP DATE: 12/29/04 12:31
* COMP DATE: 12/29/04 12:31

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/FIN WT/VOL	PH'S INIT ADJ1	ADJ2	EXTRACTION VOL	EXCHANGE VOL	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	1/10/05	D4L200185-005 GIH5T-1-AA	D	25	QK WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:												
0/00/00	1/03/05	D4L200242-001 GIJQ9-1-AA		25	QK WATER	0.5mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:												
0/00/00	1/03/05	D4L200242-002 GIJRN-1-AA		25	QK WATER	1 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:												
0/00/00	1/03/05	D4L200242-003 GIJRP-1-AA		25	QK WATER	2 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:												
0/00/00	0/00/00	D4L290000-477 G10AL-1-AAB		25	QK WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:												
0/00/00	0/00/00	D4L290000-477 G10AL-1-ACC		25	QK WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
COMMENTS:												

R = RUSH
E = EPA 600
M = CLIENT REQ MS/MSD

C = CLP
D = EXP. DEL)

NUMBER OF WORK ORDERS IN BATCH: 23

	File Name	Sample ID	File Text	Sample Type	Analyte $\mu\text{g/L}$	QC $\mu\text{g/L}$	Vial	Extract (mL)
1	ex25a1063	891.111.1	Blank - <i>clean</i>	Blank	0	50	1	1.000
2	ex25a1064	891.111.2	5 $\mu\text{g/L}$	Standard	5	5	2	1.000
3	ex25a1065	891.111.3	10 $\mu\text{g/L}$	Standard	10	10	3	1.000
4	ex25a1066	891.111.4	25 $\mu\text{g/L}$	Standard	25	25	4	1.000
5	ex25a1067	891.114.1	50 $\mu\text{g/L}$	Standard	50	50	5	1.000
6	ex25a1068	891.114.2	100 $\mu\text{g/L}$	Standard	100	100	6	1.000
7	ex25a1069	891.111.7	200 $\mu\text{g/L}$	Standard	200	200	7	1.000
8	ex25a1070	891.111.8	300 $\mu\text{g/L}$	Standard	300	300	8	1.000
9	ex25a1071	891.111.1	Blank - <i>clean</i>	Blank	0	50	1	1.000
10	ex25a1073	G1J6G1AA	R4L210000-062 MB	Blank	0	100	28	5.000
11	ex25a1074	G1J6G1AC	R4L210000-062 LCS	QC	100	100	29	5.000
12	ex25a1075	G1GLF1AC	D4L180244-001	Analyte	0	100	30	5.000
13	ex25a1076	G1GLF1AF	D4L180244-001/MS	QC	100	100	31	5.000
14	ex25a1077	G1GLF1AG	D4L180244-001/MSD	QC	100	100	32	5.000
15	ex25a1078	G1GLG1AA	D4L180244-002	Analyte	0	100	33	5.000
16	ex25a1079	G1GLW1AA	D4L180244-004	Analyte	0	100	34	5.000
17	ex25a1080	G1GLK1AA	D4L180244-005	Analyte	0	100	35	5.000
18	ex25a1081	891.116.1	100 $\mu\text{g/L}$ ICV	QC	100	100	9	5.000
19	ex25a1082	G1GLL1AA	D4L180244-006	Analyte	0	100	36	5.000
20	ex25a1083	G1GLM1AA	D4L180244-007	Analyte	0	100	37	5.000
21	ex25a1084	891.114.1	50 $\mu\text{g/L}$ CCV	QC	50	50	5	1.000

ex25a1072 100 $\mu\text{g/L}$ ICV (rerun for surrogate)

Sample List: C:\Masslynx\Explosives.PRO\SampleDB\ex25a09(9).SPL
Printed: Fri Jan 14 12:37:52 2005

Page Position: (2, 1)

	Sample (mL or g)	Dilution	μ L Injected	MS Tune File	Inlet File	MS File
1	1.000	1.000	50.000	Explosives	Exp2	Explosives
2	1.000	1.000	50.000	Explosives	Exp2	Explosives
3	1.000	1.000	50.000	Explosives	Exp2	Explosives
4	1.000	1.000	50.000	Explosives	Exp2	Explosives
5	1.000	1.000	50.000	Explosives	Exp2	Explosives
6	1.000	1.000	50.000	Explosives	Exp2	Explosives
7	1.000	1.000	50.000	Explosives	Exp2	Explosives
8	1.000	1.000	50.000	Explosives	Exp2	Explosives
9	1.000	1.000	50.000	Explosives	Exp2	Explosives
10	1000.000	1.000	50.000	Explosives	Exp2	Explosives
11	1000.000	1.000	50.000	Explosives	Exp2	Explosives
12	1046.000	1.000	50.000	Explosives	Exp2	Explosives
13	1046.000	1.000	50.000	Explosives	Exp2	Explosives
14	1049.000	1.000	50.000	Explosives	Exp2	Explosives
15	1055.000	1.000	50.000	Explosives	Exp2	Explosives
16	1039.000	1.000	50.000	Explosives	Exp2	Explosives
17	1005.000	1.000	50.000	Explosives	Exp2	Explosives
18	1005.000	1.000	50.000	Explosives	Exp2	Explosives
19	1048.000	1.000	50.000	Explosives	Exp2	Explosives
20	1027.000	1.000	50.000	Explosives	Exp2	Explosives
21	1.000	1.000	50.000	Explosives	Exp2	Explosives

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives.PRO\Curves8\ex25a09b
Last modified: Thu Jan 14 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

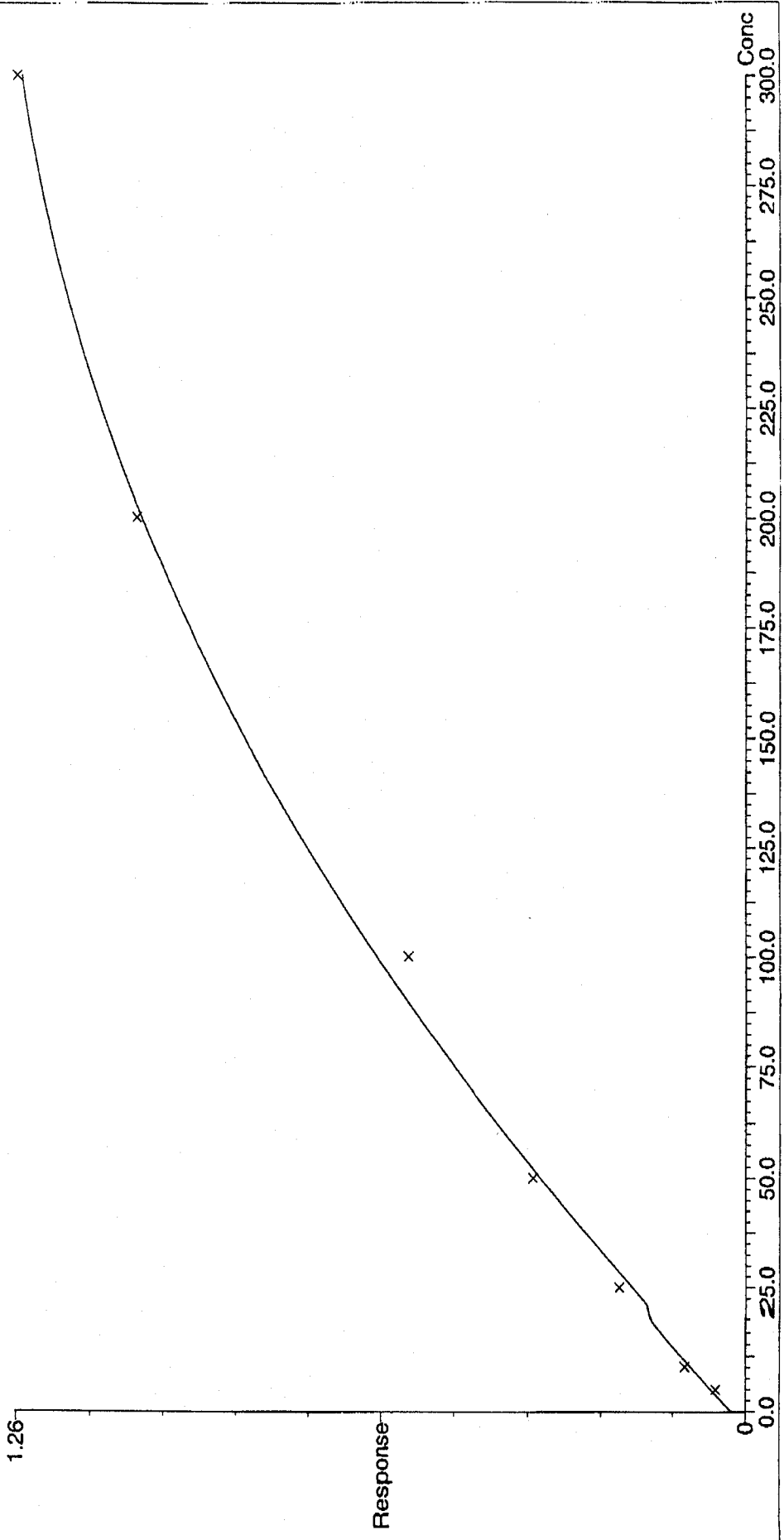
Compound 1 name: HMX Method File: ex25a09b

Coefficient of Determination: 0.997042

Calibration curve: $-1.02556e-5 * x^2 + 0.00716614 * x + 0.0245789$

Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives.FMO\Curves\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

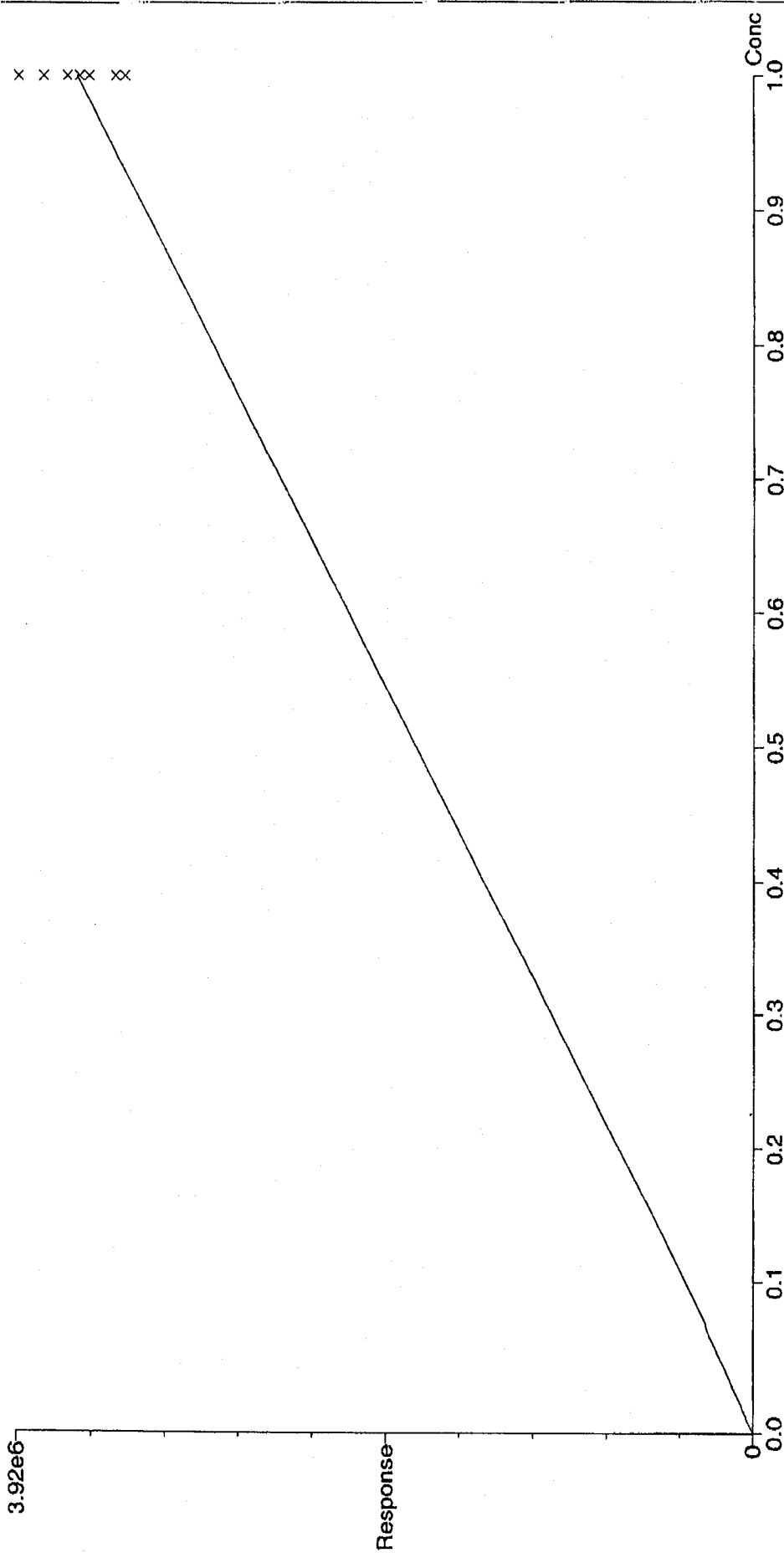
Compound 2 name: RDX 13C-3 284 (IS) Method File: ex25a09b

Response Factor: 3.60937e6

RRF SD: 199639, % Relative SD: 5.53113

Response type: External Std, Area

Curve type: RF



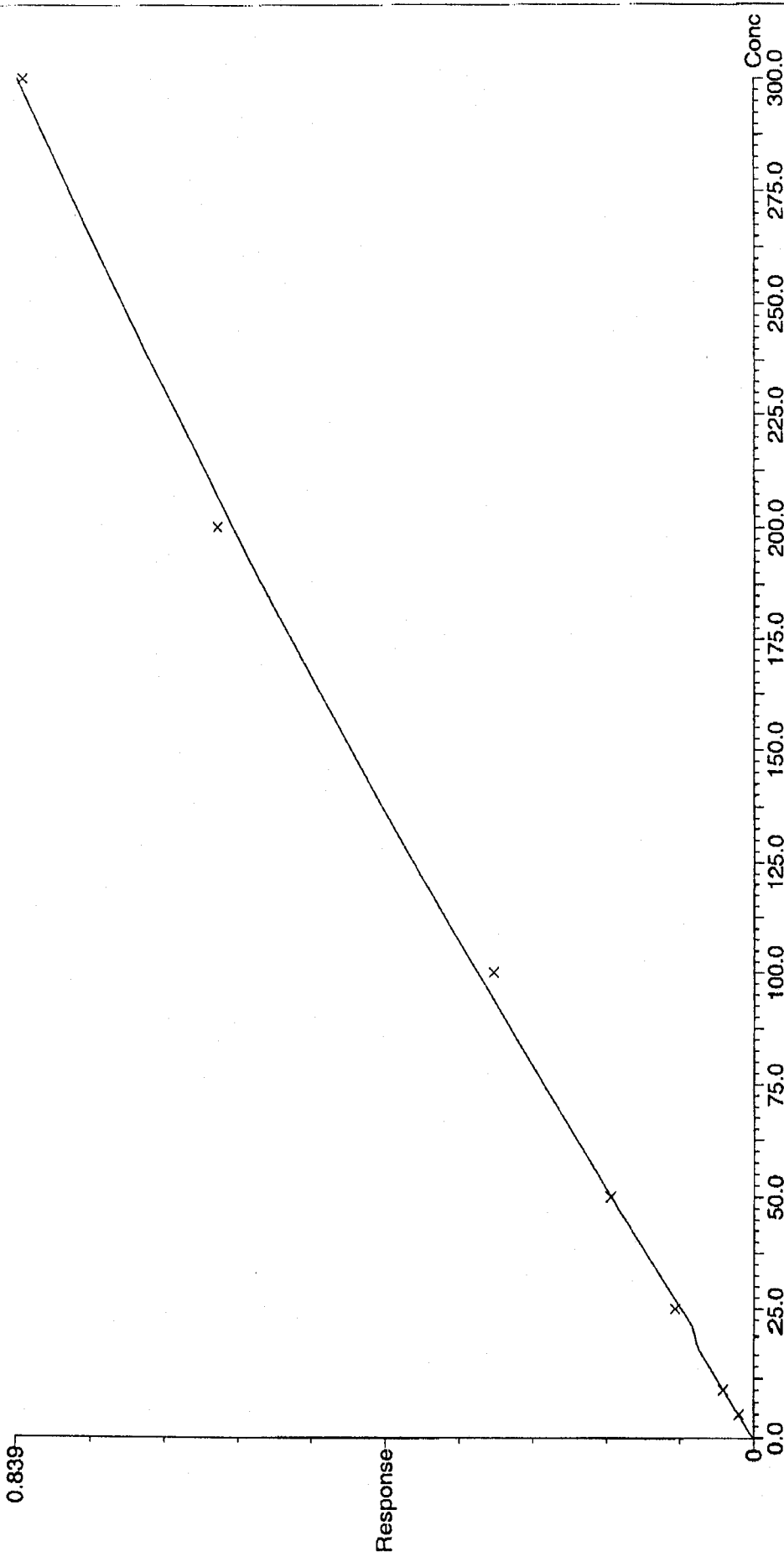
Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\msanalyt\Explosives.PROV\CurvDB\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs Amt = on-column concentration ($\mu\text{g/L}$) Vf = Final volume at end of extraction (L)
DF = Dilutions after extraction (L/L) Vs = Size of sample Extracted (L or kg)

Compound 3 name: **RDx** Method File: ex25a09b
Coefficient of Determination: 0.998763
Calibration curve: $-1.75299e-6 * x^2 + 0.00331821 * x + 0.000939642$
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



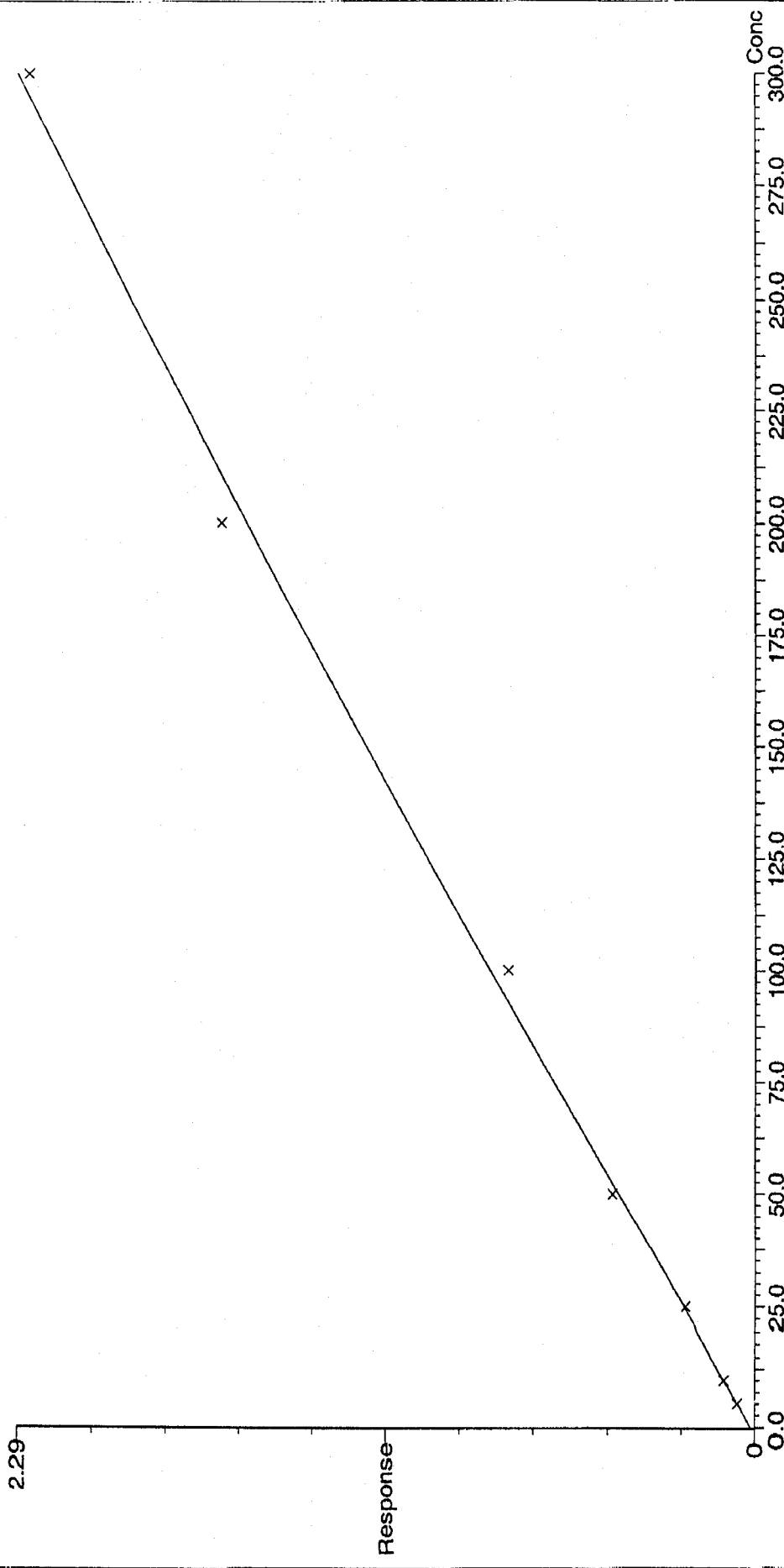
Analyst: Steve Cowling

Quantity Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives.PRO\Curves\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

Compound 4 name: 1,3,5-Trinitrobenzene Method File: ex25a09b
Coefficient of Determination: 0.997502
Calibration curve: $-2.52512e-6 * x^2 + 0.00833545 * x + 0.0133839$
Response type: Internal Std (Ref 6), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Analyst: Steve Cowling

Quantity Calibration Report
Explosives Analysis

Calibration: C:\MassAnalyt\Explosives_PRO\Curves\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

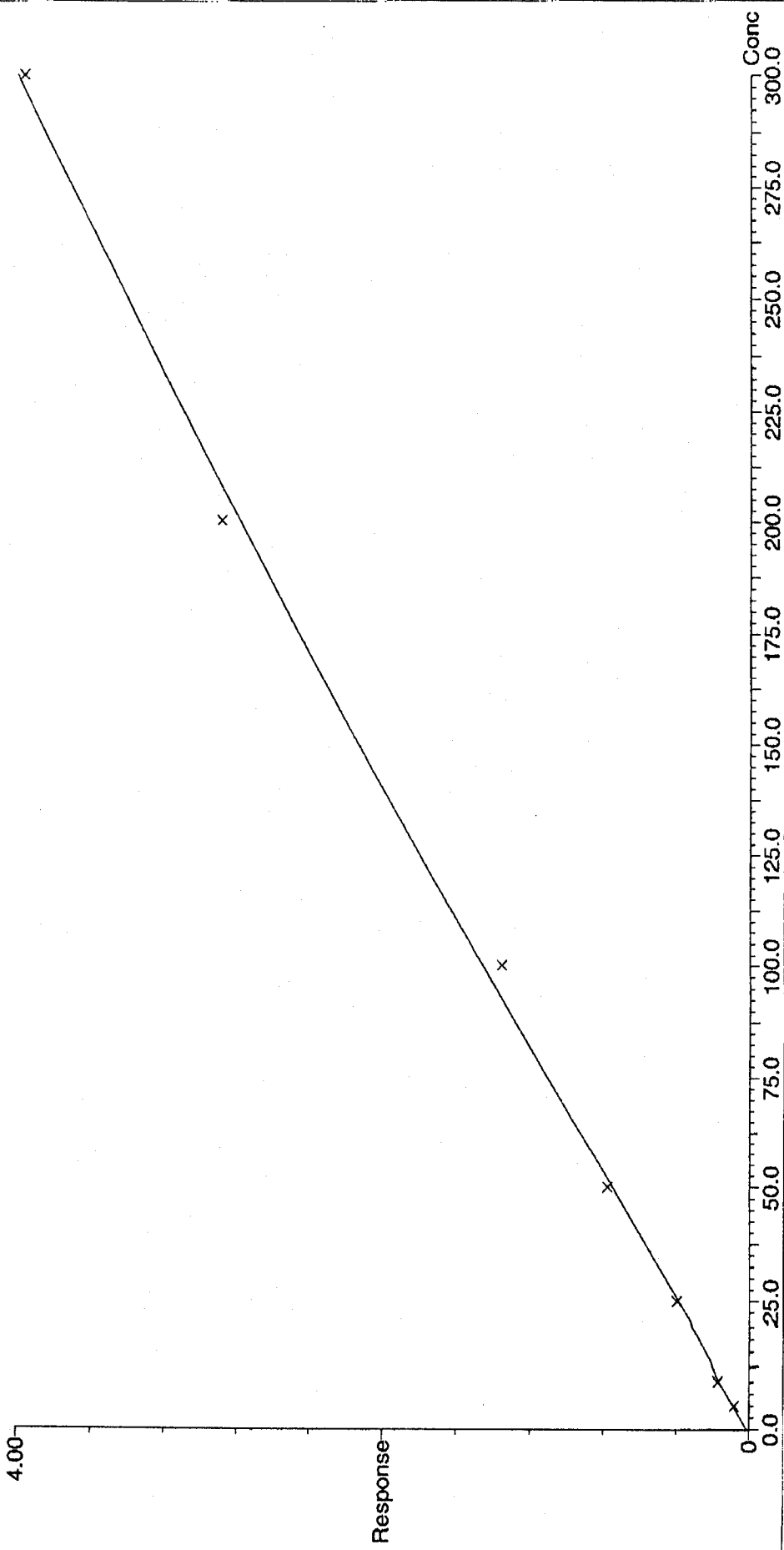
Compound 5 name: Tetryl Method File: ex25a09b

Coefficient of Determination: 0.998307

Calibration curve: $-5.93158e-6 * x^2 + 0.0150795 * x + 0.0125957$

Response type: Internal Std (Ref 6), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives_PRO\CurvedB\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs Amt = on-column concentration ($\mu\text{g/L}$) Vf = Final volume at end of extraction (L)
DF = Dilutions after extraction (L/L) Vs = Size of sample Extracted (L or kg)

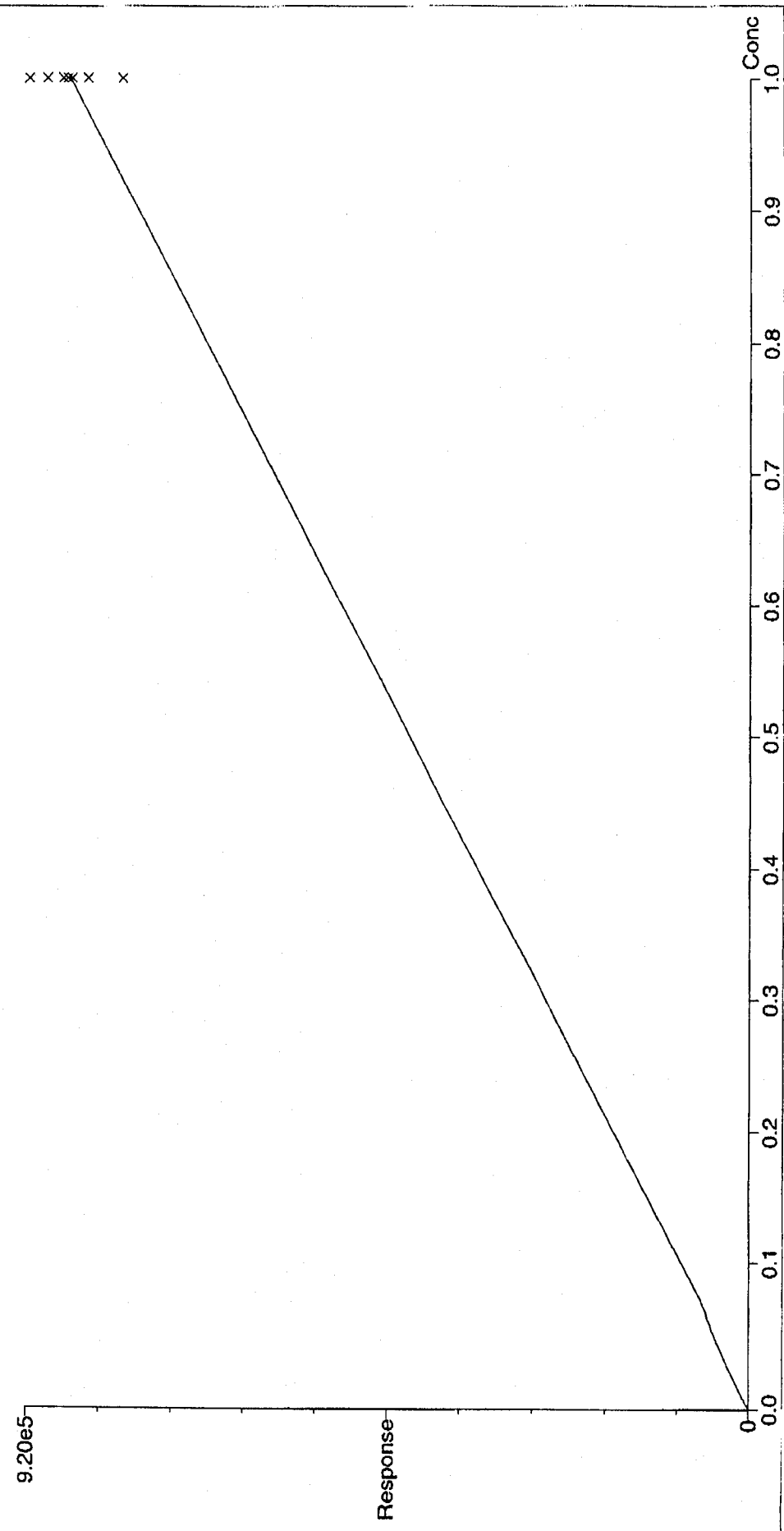
Compound 6 name: Dinitrobenzene-d4 (IS) Method File: ex25a09b

Response Factor: 867804

RRF SD: 37825.6, % Relative SD: 4.35877

Response type: External Std, Area

Curve type: RF



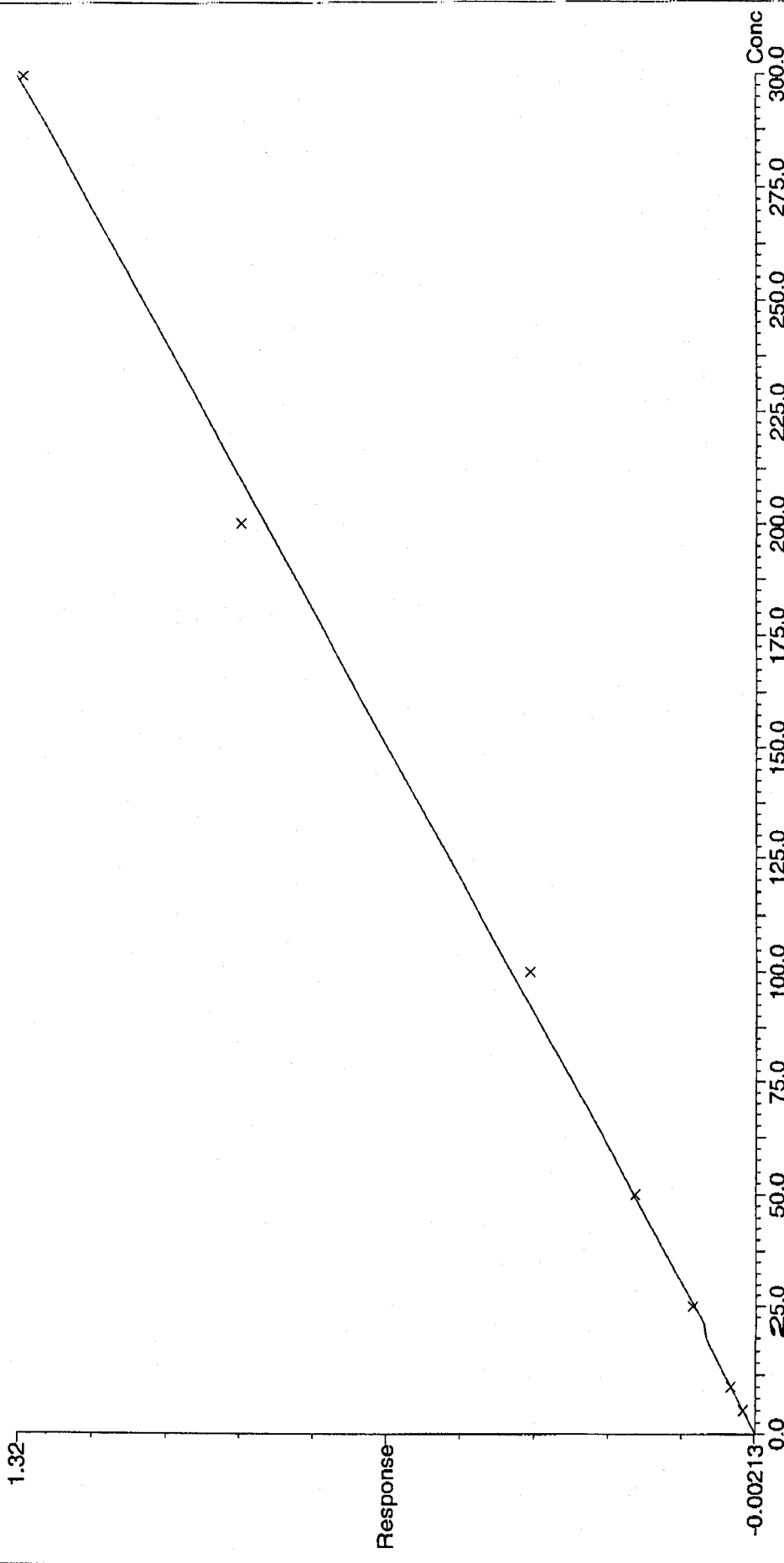
Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives\PRO\Curvedata\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

Compound 7 name: 1,3-Dinitrobenzene Method File: ex25a09b
Coefficient of Determination: 0.997915
Calibration curve: $0.00440758 * x + -0.00212939$
Response type: Internal Std (Ref 6), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



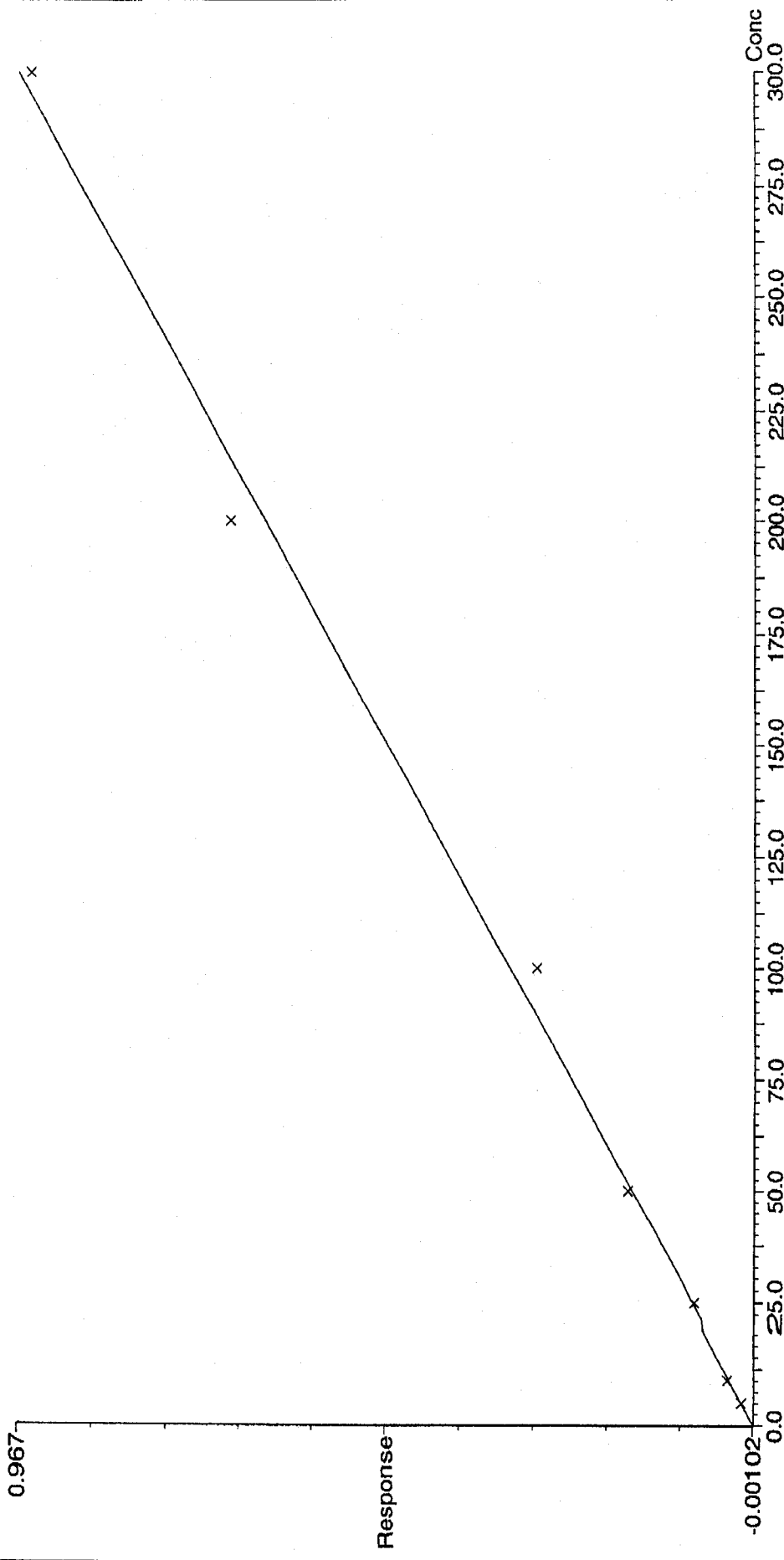
Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives.PRO\Curve08\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

Compound 8 name: Nitrobenzene-d5 Method File: ex25a09b
Coefficient of Determination: 0.995451
Calibration curve: $0.00322577 * x + -0.00101997$
Response type: Internal Std (Ref 6), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



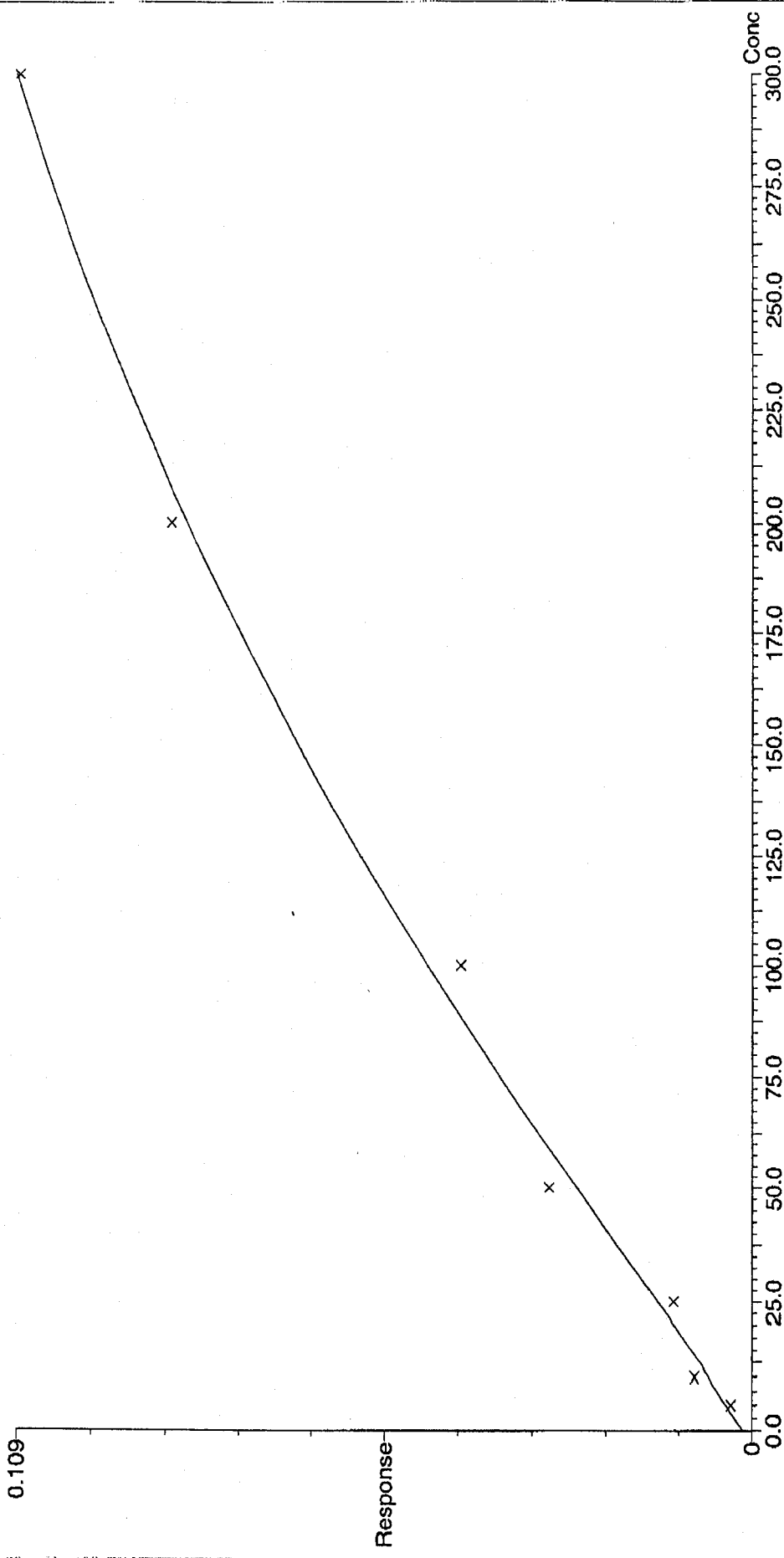
Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\masslynx\Explosives.PRO\Curves\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs Amt = on-column concentration ($\mu\text{g/L}$) Vf = Final volume at end of extraction (L)
DF = Dilutions after extraction (L/L) Vs = Size of sample Extracted (L or kg)

Compound 9 name: Nitroglycerin Method File: ex25a09b
Coefficient of Determination: 0.994385
Calibration curve: $-5.52872e-7 * x^2 + 0.000526457 * x + 0.00131473$
Response type: Internal Std (Ref 6), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



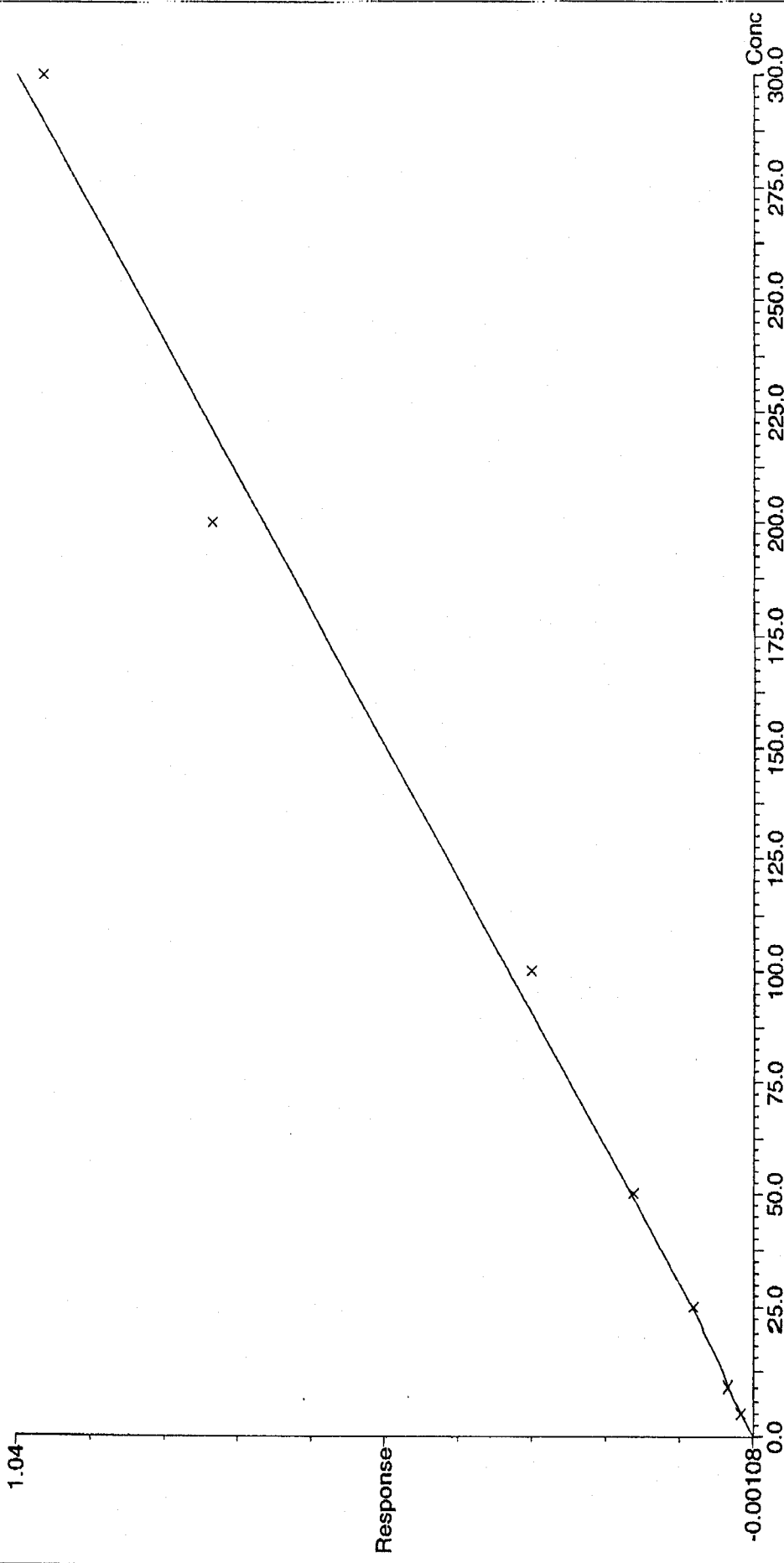
Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Mass1\Explosives.PRC\Curve08\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs Amt = on-column concentration ($\mu\text{g/L}$) Vf = Final volume at end of extraction (L)
DF = Dilutions after extraction (L/L) Vs = Size of sample Extracted (L or kg)

Compound 10 name: Nitrobenzene Method File: ex25a09b
Coefficient of Determination: 0.991646
Calibration curve: $0.00347876 * x + -0.00108308$
Response type: Internal Std (Ref 6), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



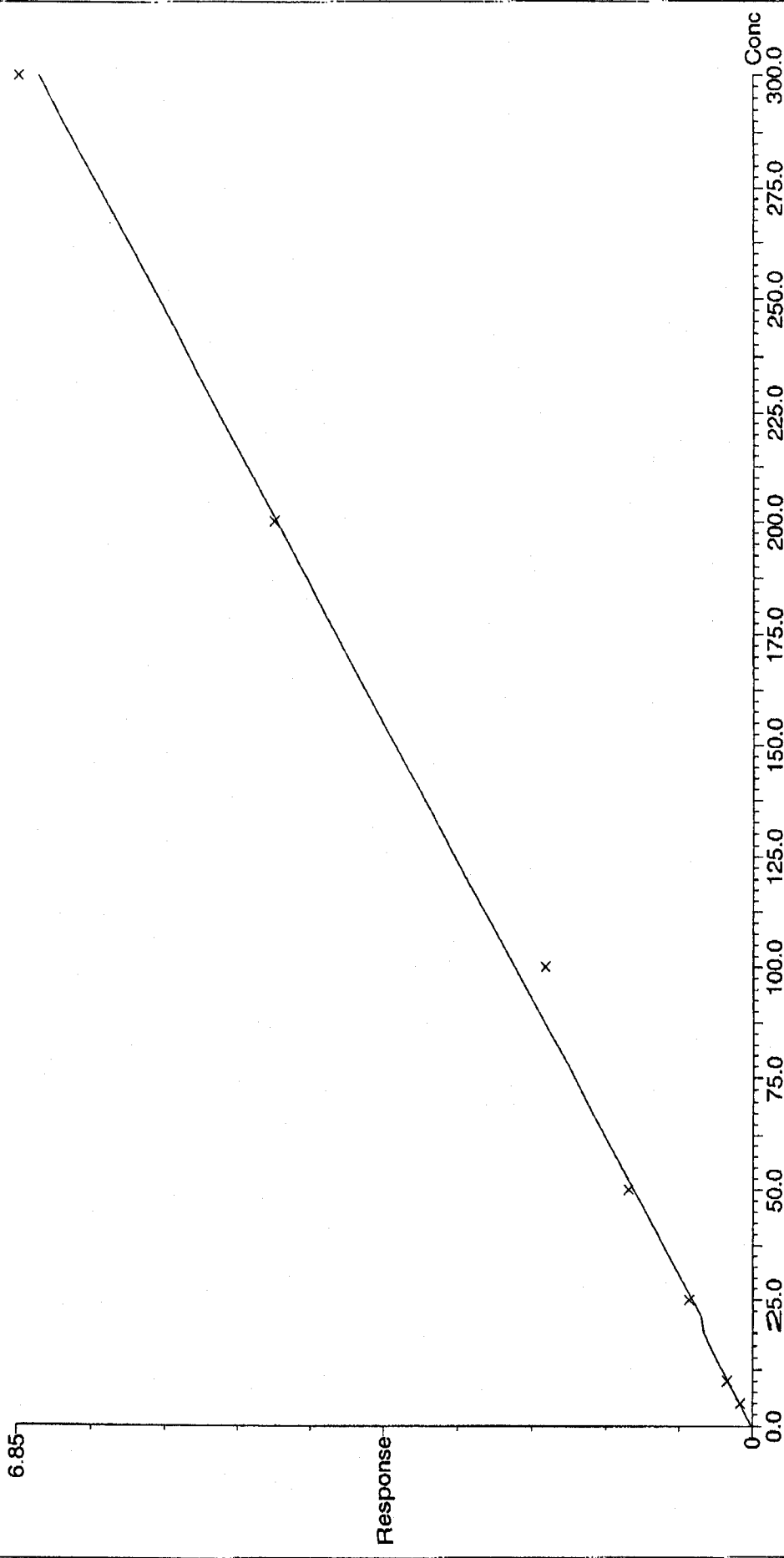
Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives.PRO\CurveDB\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:48 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

Compound 11 name: 2,4,6-Trinitrotoluene Method File: ex25a09b
Coefficient of Determination: 0.996928
Calibration curve: $0.0221880 * x + 0.00725995$
Response type: Internal Std (Ref 6), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



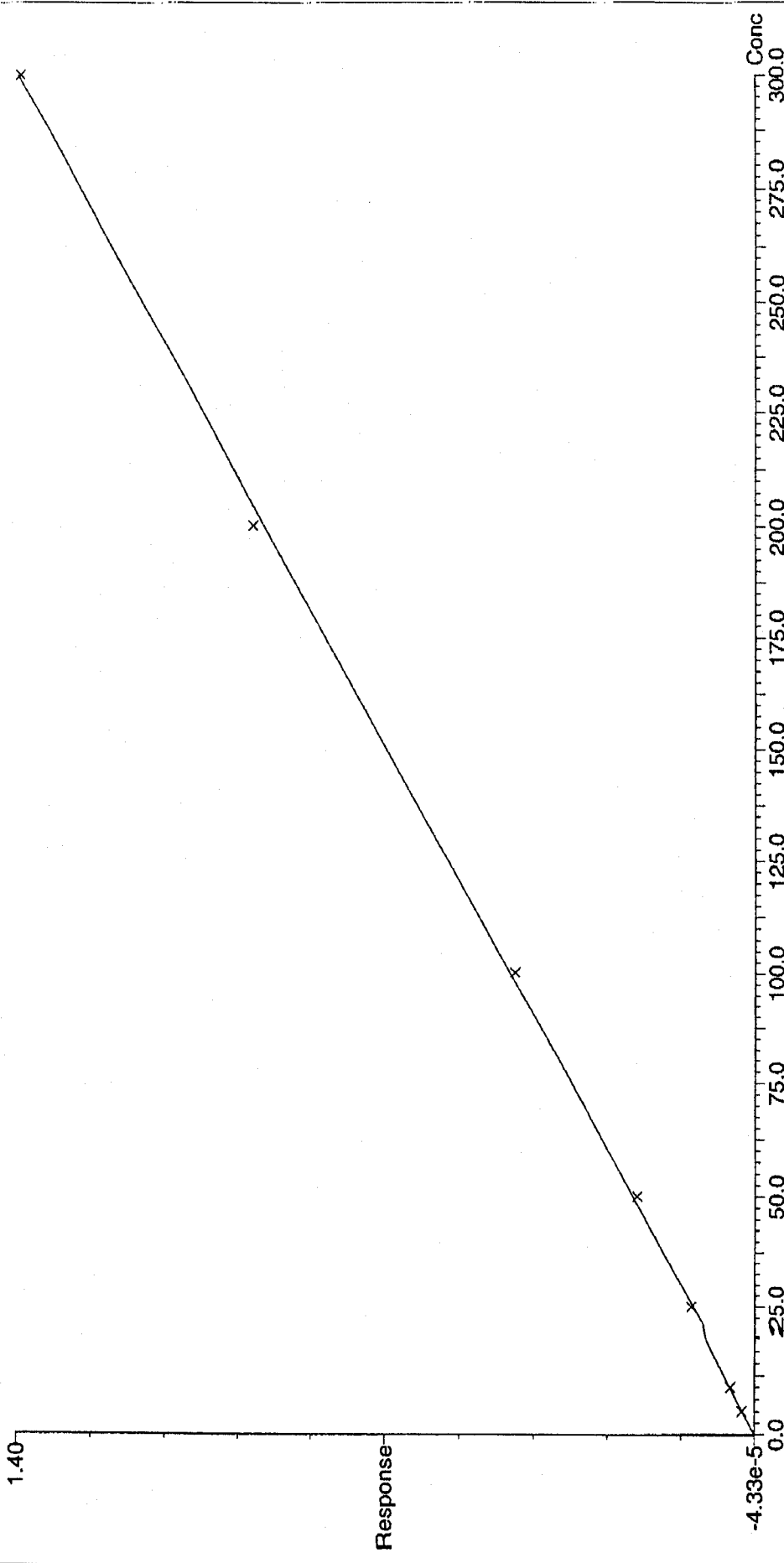
Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives_PMO\CurvesDB\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

Compound 12 name: 4-Amino-2,6-dinitrotoluene Method File: ex25a09b
Coefficient of Determination: 0.999618
Calibration curve: $0.00465113 * x + -4.32648e-5$
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



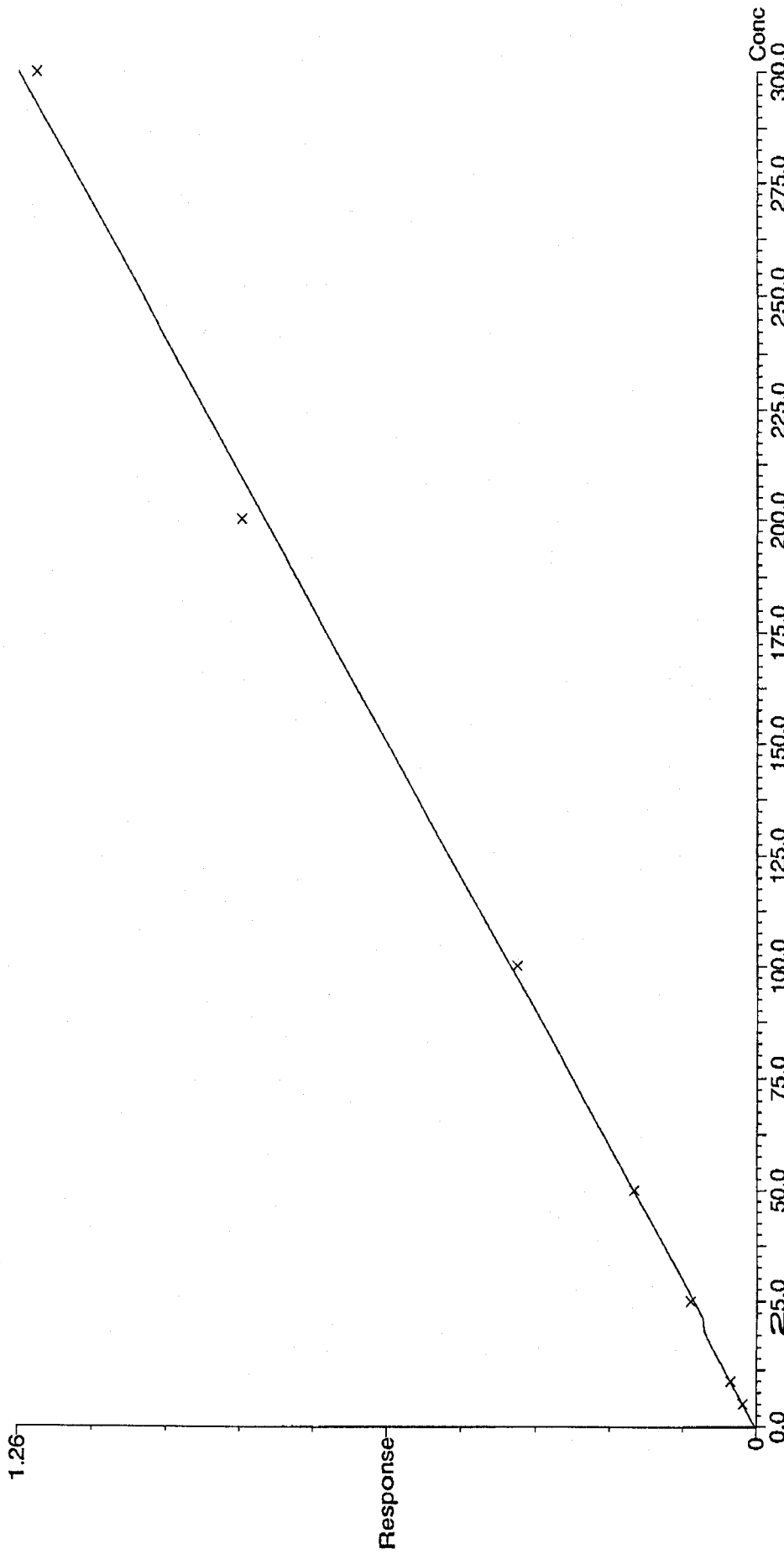
Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives_BRO\Curvedata\ex25a09b
Last modified: Thu Jan 14 15:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

Compound 13 name: 2-Amino-4,6-dinitrotoluene
Coefficient of Determination: 0.997983
Calibration curve: $0.00419005 * x + 0.00247481$
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



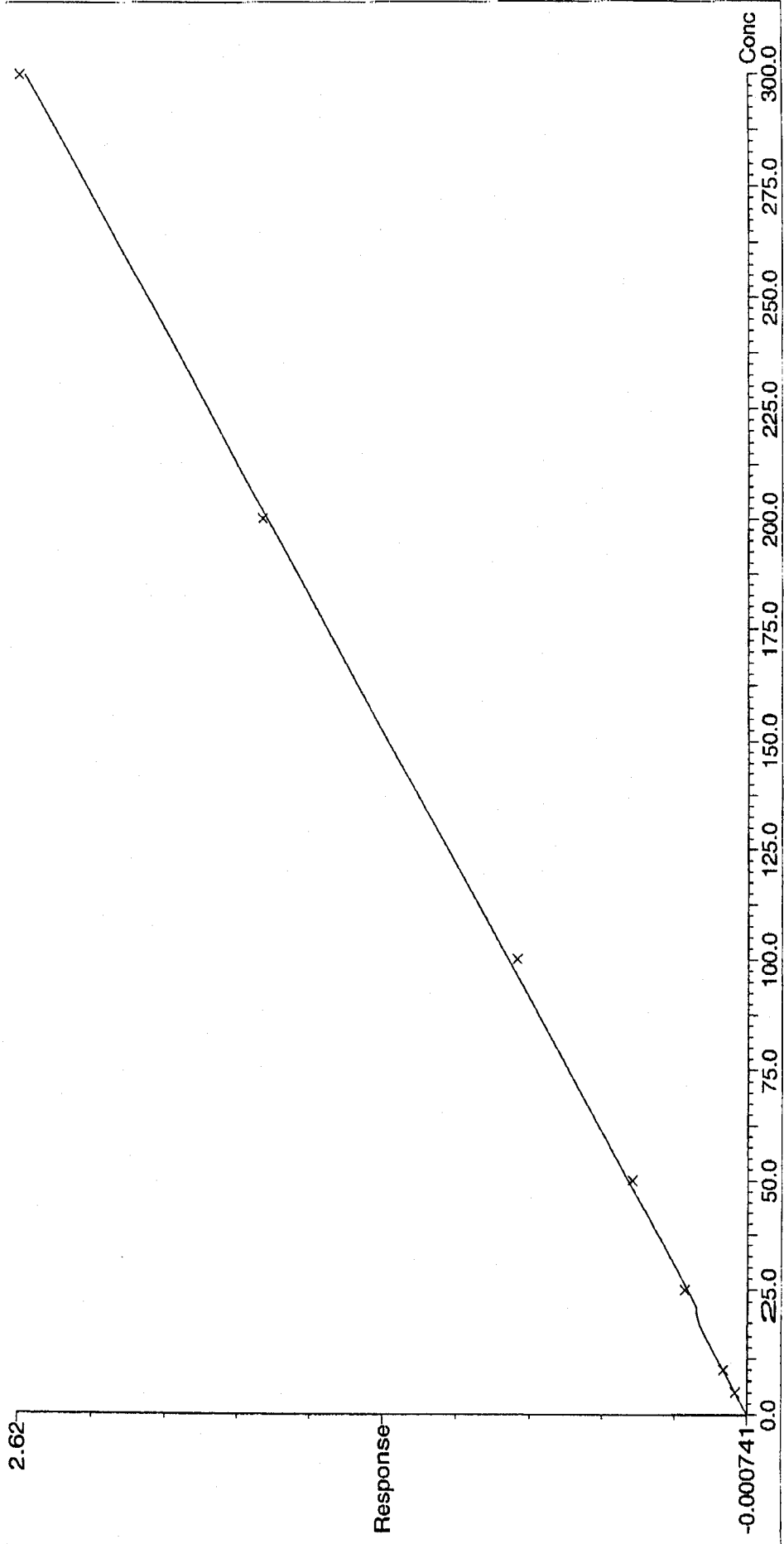
Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives_PMO\Curves\ex25a09b
Last modified: Thu Jan 13 14 :55:43 2005
Printed: Fri Jan 14 13 :02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

Compound 14 name: 2,6-Dinitrotoluene Method File: ex25a09b
Coefficient of Determination: 0.999640
Calibration curve: $0.00866888 * x + -0.000741370$
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Analyst: Steve Cowling

Quantity Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives_PRO\CurvedB\ex25a09b
Last modified: Thu Jan 14 15:43:2005
Printed: Fri Jan 14 13:09:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

Method File: ex25a09b

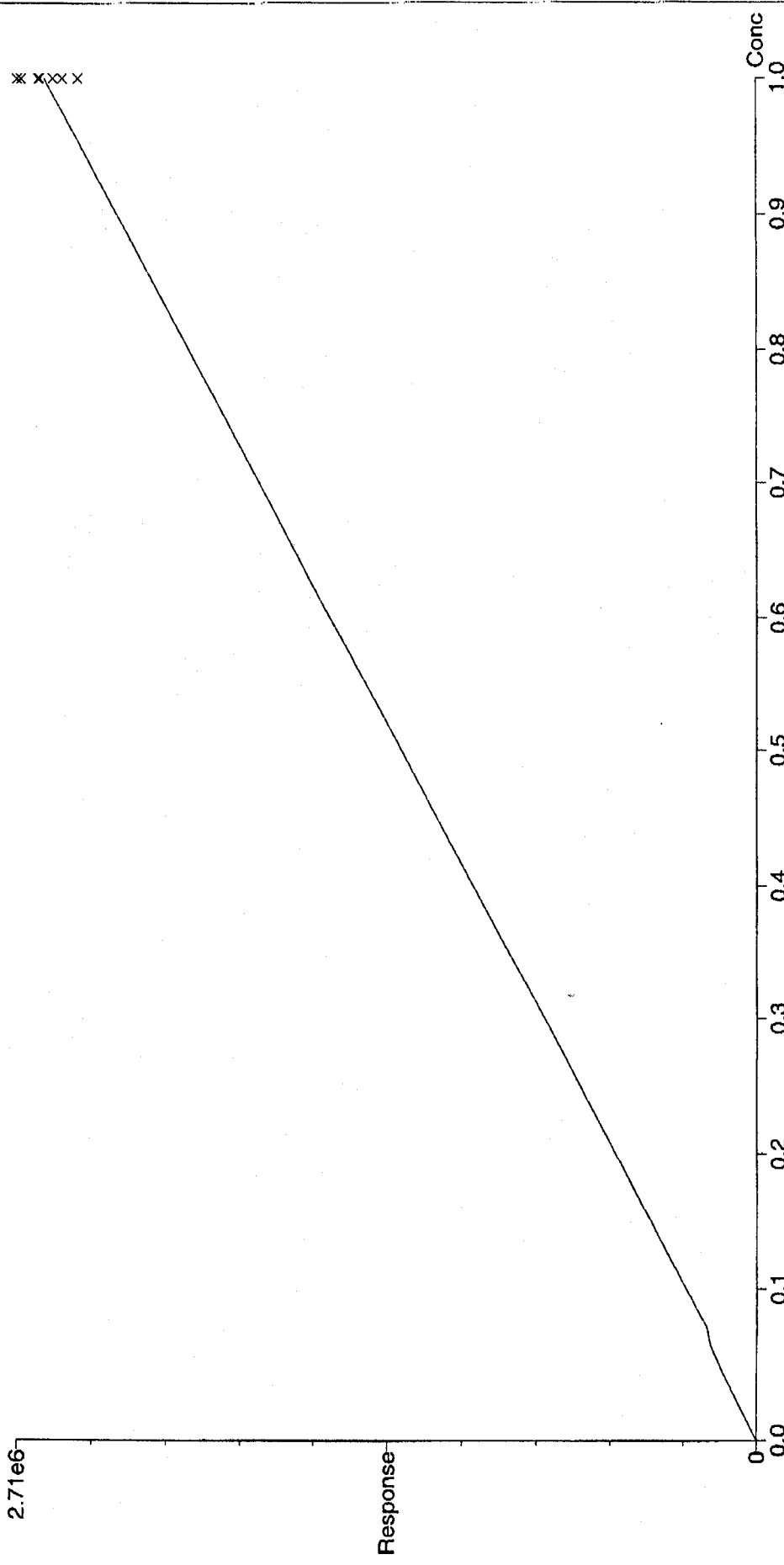
Compound 15 name: 2,4-Dinitrotoluene-d3 (IS)

Response Factor: 2.60955e6

RRF SD: 78864.2, % Relative SD: 3.02214

Response type: External Std, Area

Curve type: RF



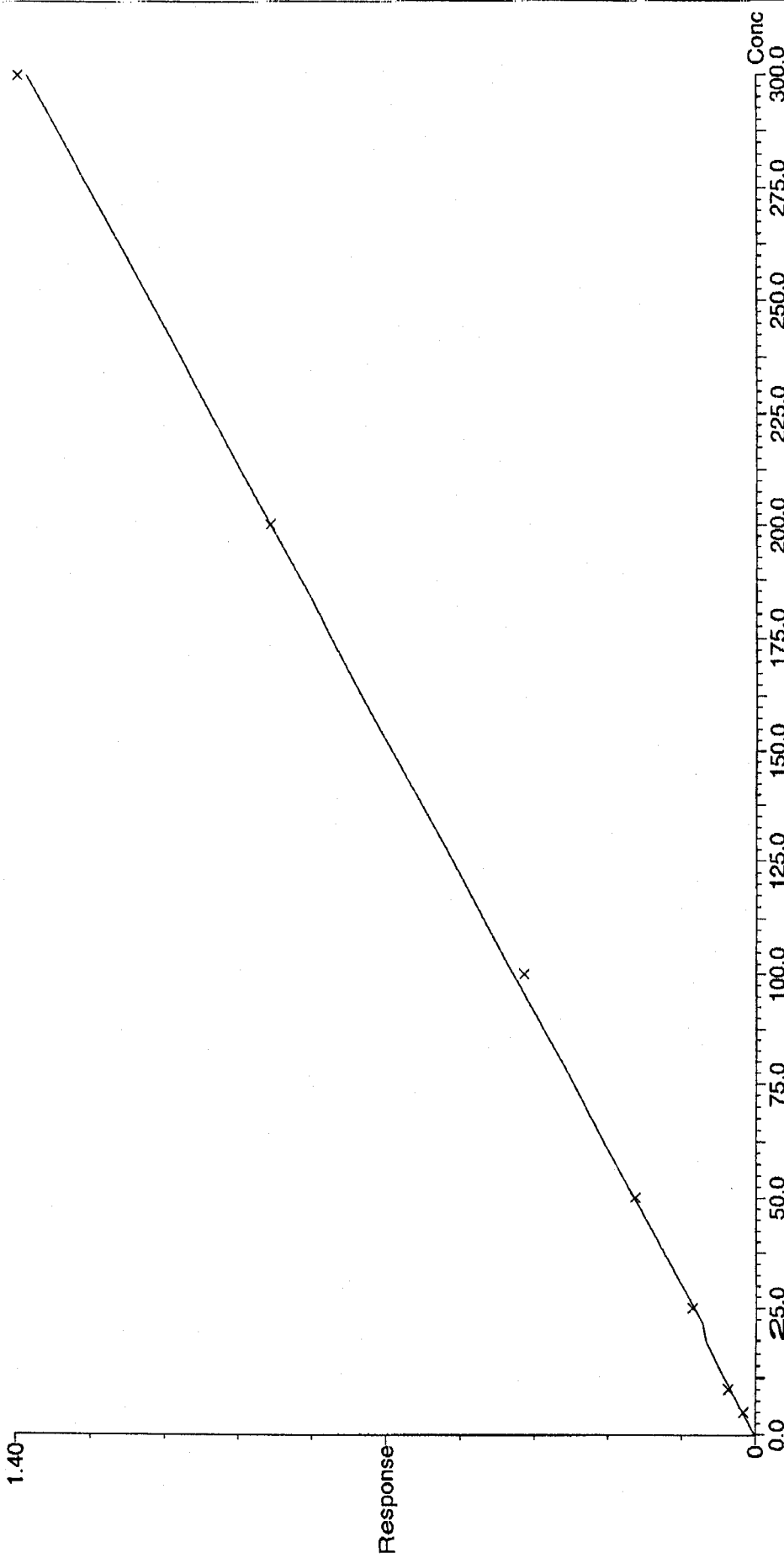
Analyst: Steve Cowling

Quantity Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives\p00\CurvedB\ex25a09b
Date modified: Thu Jan 14 15:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs Amt = on-column concentration ($\mu\text{g/L}$) Vf = Final volume at end of extraction (L)
DF = Dilutions after extraction (L/L) Vs = Size of sample Extracted (L or kg)

Compound name: 2,4-Dinitrotoluene Method File: ex25a09b
Coefficient of Determination: 0.999540
Calibration curve: $0.00461659 * x + 0.00120469$
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



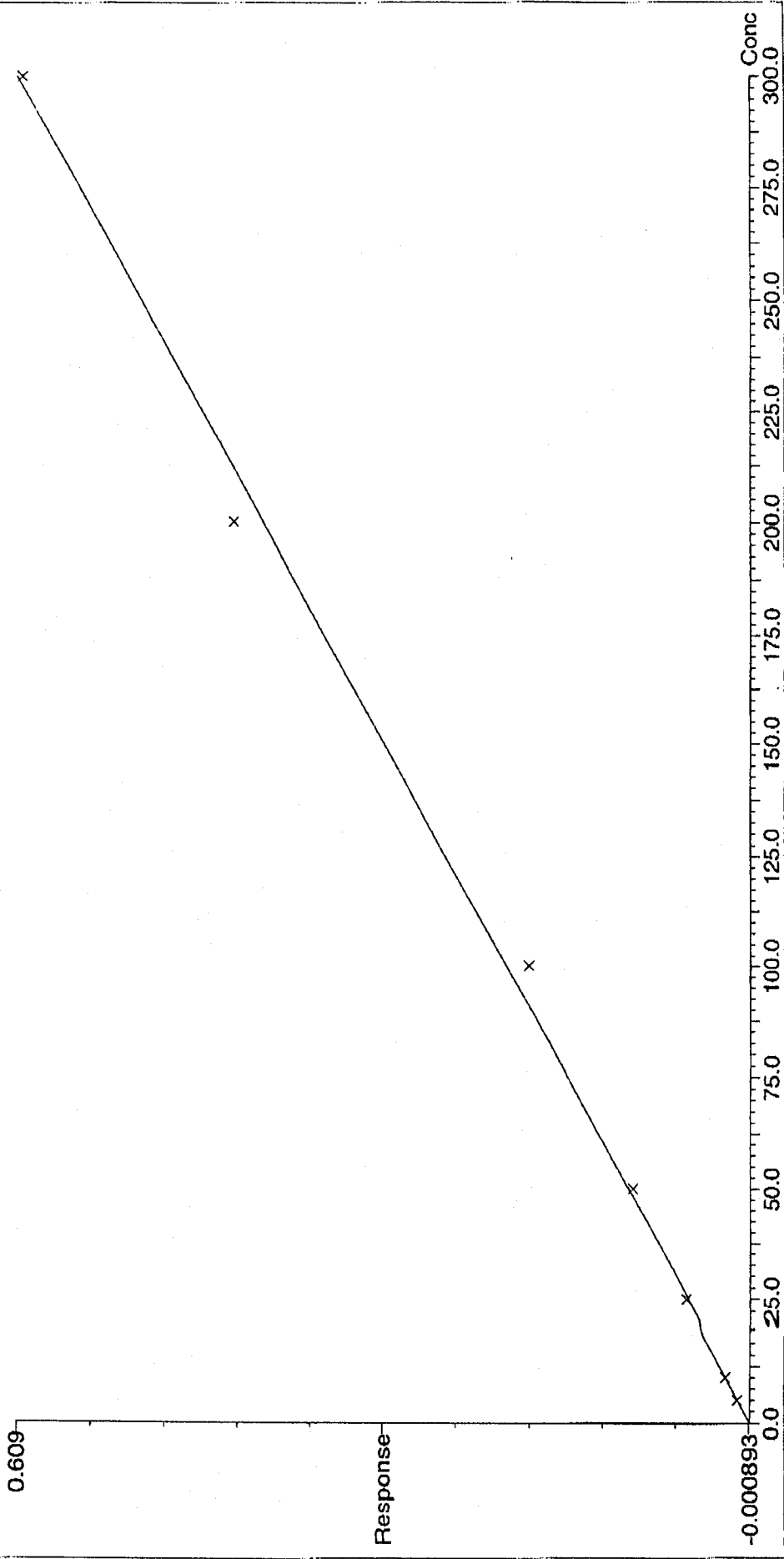
Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives.PMO\Curves\ex25a09b
Last modified: Thu Jan 14 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

Compound 17 name: 2-Nitrotoluene Method File: ex25a09b
Coefficient of Determination: 0.996932
Calibration curve: $0.00203388 * x + -0.000893054$
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



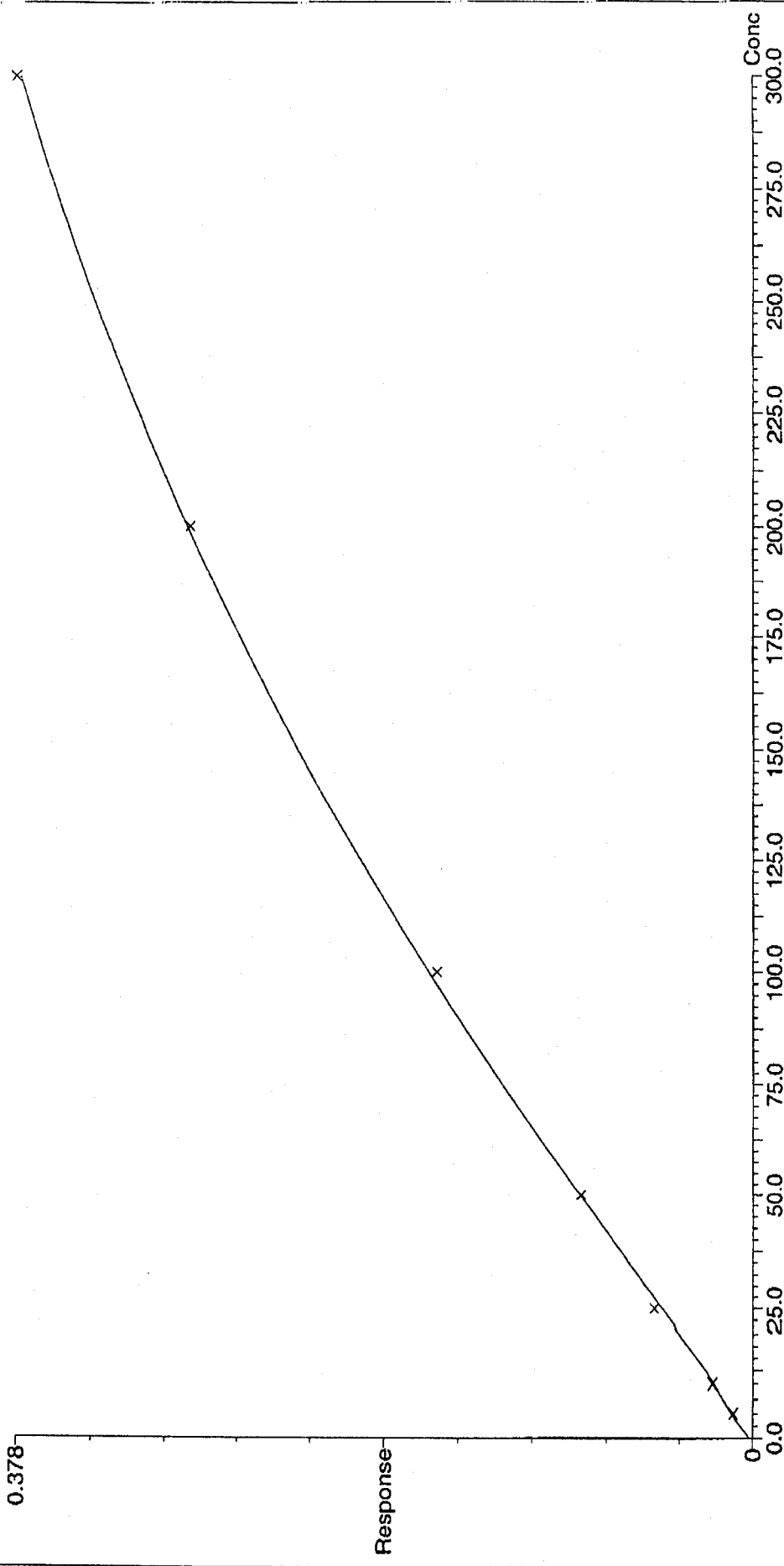
Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives.FRD\CurvedB\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs Amt = on-column concentration ($\mu\text{g/L}$) Vf = Final volume at end of extraction (L)
DF = Dilutions after extraction (L/L) Vs = Size of sample Extracted (L or kg)

Compound 18 name: PETN Method File: ex25a09b
Coefficient of Determination: 0.999643
Calibration curve: $-1.99282e-6 * x^2 + 0.00184303 * x + 0.00178817$
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



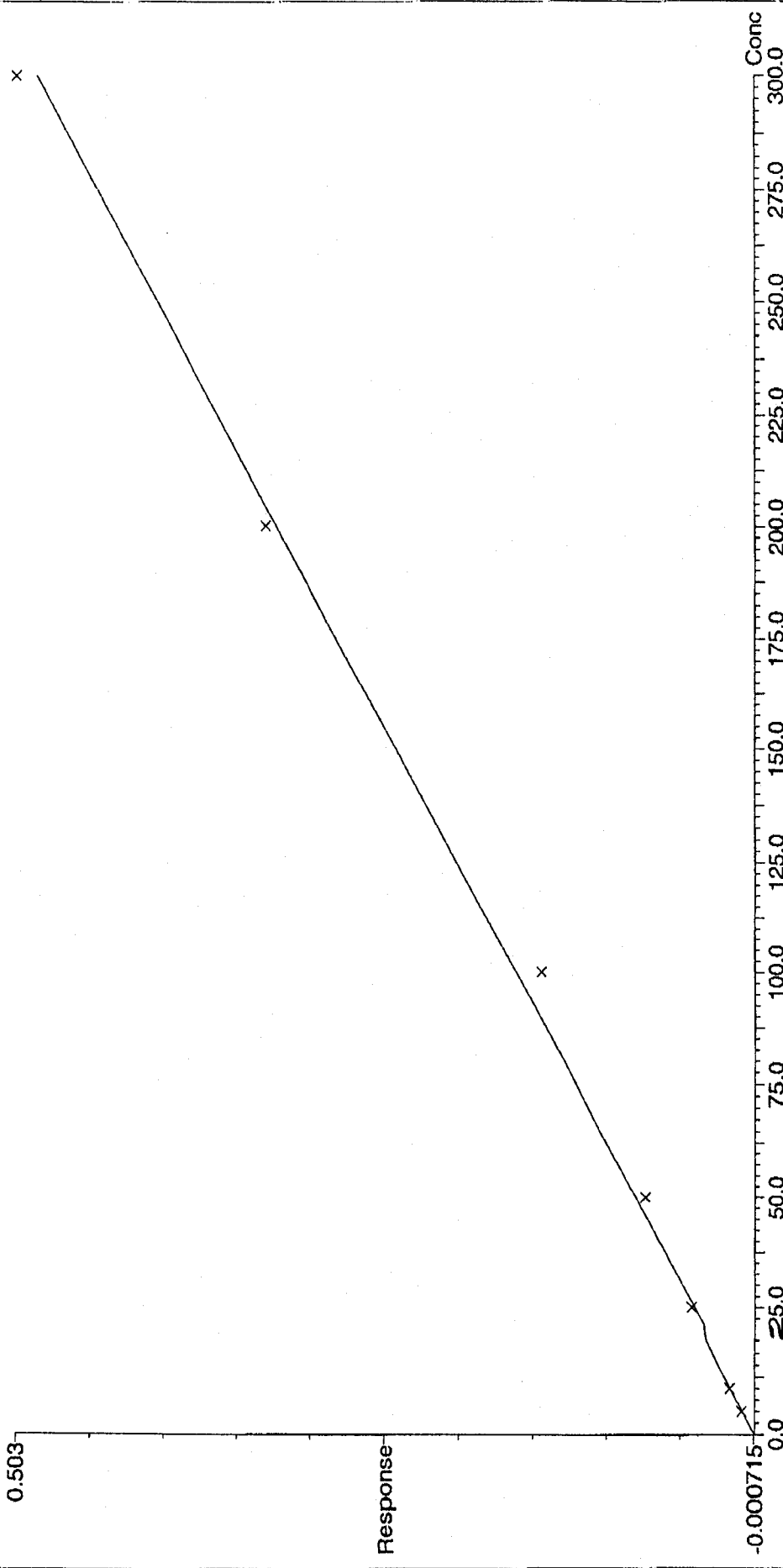
Analyst: Steve Coeling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives PRO\Curves\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

Compound 19 name: 4-Nitrotoluene Method File: ex25a09b
Coefficient of Determination: 0.997253
Calibration curve: $0.00163254 * x + -0.000715358$
Response type: Internal Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



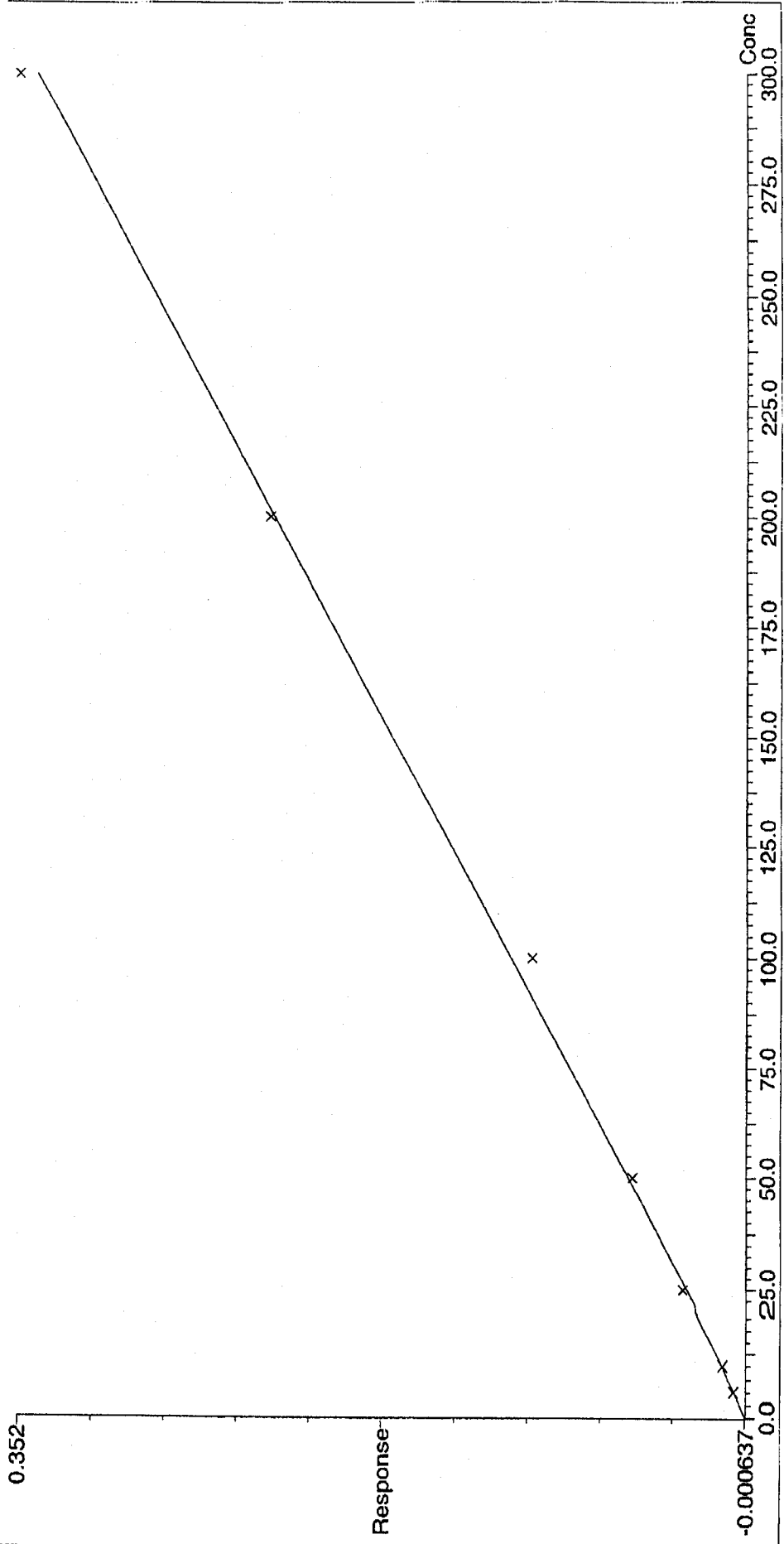
Analyst: Steve Cowling

Quantify Calibration Report
Explosives Analysis

Calibration: C:\Masslynx\Explosives.FRO\Curves\ex25a09b
Last modified: Thu Jan 13 14:55:43 2005
Printed: Fri Jan 14 13:02:49 2005

Result ($\mu\text{g/L}$ or kg) = Amt * DF * Vf / Vs **Amt = on-column concentration ($\mu\text{g/L}$)** **Vf = Final volume at end of extraction (L)**
DF = Dilutions after extraction (L/L) **Vs = Size of sample Extracted (L or kg)**

Compound 20 name: 3-Nitrotoluene Method File: ex25a09b
Coefficient of Determination: 0.998202
Calibration curve: $0.00114803 * x + -0.000636920$
Response type: Intern al Std (Ref 15), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



Analyst: Steve Cowling

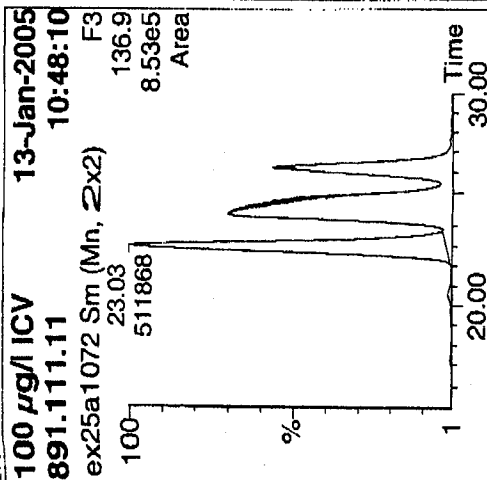
Quantity Sample Report
Explosives Analysis

Sample List: C:\Masslynx\EXPLOSIVES.FRD\SampleB\ex25a09 (c)
Last modified: Sat Jan 15 08:28:40 2005
Method: C:\Masslynx\EXPLOSIVES.FRD\MethdB\ex25a09b
Last modified: Thu Jan 13 06:31:43 2005
Job Code:

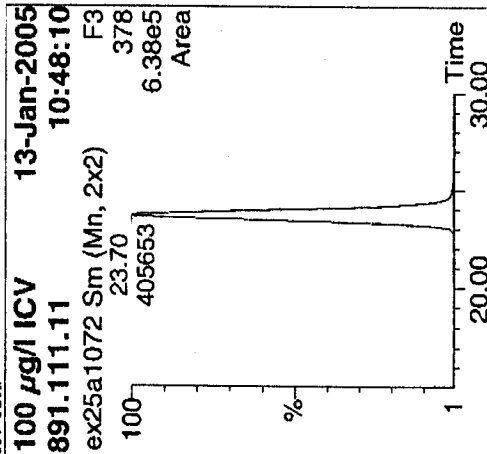
Printed: Sat Jan 15 08:32:52 2005

Name: ex25a1072
Text: 100 µg/l ICV

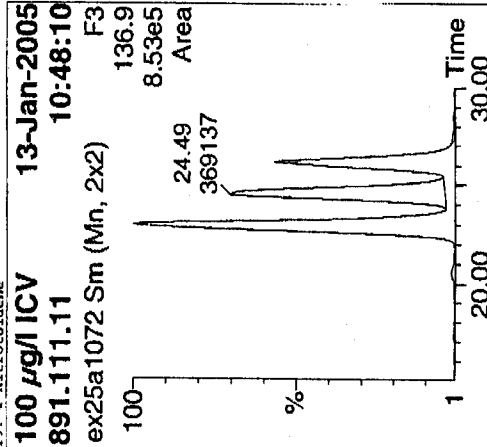
17: 2-Nitrotoluene



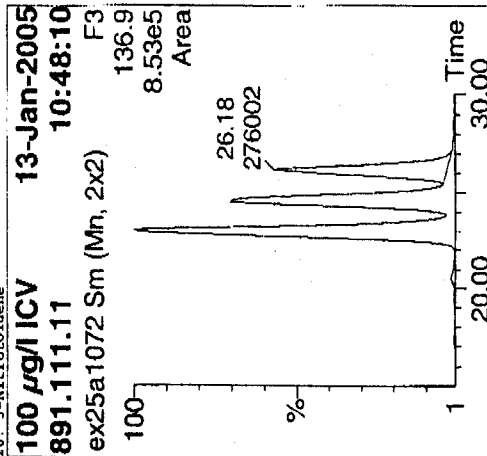
18: PTN



19: 4-Nitrotoluene



20: 3-Nitrotoluene



# Name	RT	Area	IS Area	Response	Flags	Result	Met	Mod.	Date	Mod.	Comment
1 IMX	7.54	2013317	3652371	0.551	bb	83.471	83.47				
2 RDX 13C-3 284 (IS)	9.74	1622466	3652371	0.288	bb	1.012	101.19				
3 RDX	9.49	1622466	3652371	0.288	bb	88.211	88.21				
4 1,3,5-Trinitrobenzene	12.49	1622466	901283	0.688	bb	80.748	80.75				
5 Tetryl	14.27	1322350	901283	0.467	dd	100.458	100.46				
6 Dinitrobenzene-d4 (IS)	14.57	901283	901283	0.369	bb	1.058	103.96				
7 1,3-Dinitrobenzene	14.80	332200	901283	0.369	bb	84.308	84.11				
8 Nitrobenzene-d5	15.58	32716	901283	0.036	db	71.879	71.88				
9 Nitrobenzene	16.03	270602	901283	0.300	bb	86.618	86.62				
10 Nitrobenzene	17.33	1522291	901283	2.133	bb	96.789	95.90				
11 2,4,6-Trinitrotoluene	18.10	1102055	2636105	0.418	db	85.883	89.98				
12 4-Amino-2,6-dinitrotoluene	18.45	993025	2636105	0.377	db	89.313	89.31				
13 2-Amino-4,6-dinitrotoluene	19.57	2140555	2636105	0.812	bb	91.760	91.76				
14 2,6-Dinitrotoluene	20.51	240555	2636105	0.398	db	1.010	101.02				
15 2,4-Dinitrotoluene	20.51	240555	2636105	0.398	db	85.861	85.86				
16 2,4-Dinitrotoluene-d3 (CS)	20.64	1048089	2636105	0.194	bb	95.910	95.91				
17 2-Nitrotoluene	23.03	511868	2636105	0.154	bb	91.597	91.60				
18 PTN	23.70	405653	2636105	0.140	bb	86.213	86.21				
19 4-Nitrotoluene	24.49	369137	2636105	0.105	bb	91.755	91.75				
20 3-Nitrotoluene	26.18	276002	2636105	0.105	bb						

70-130/

mg Surrogate

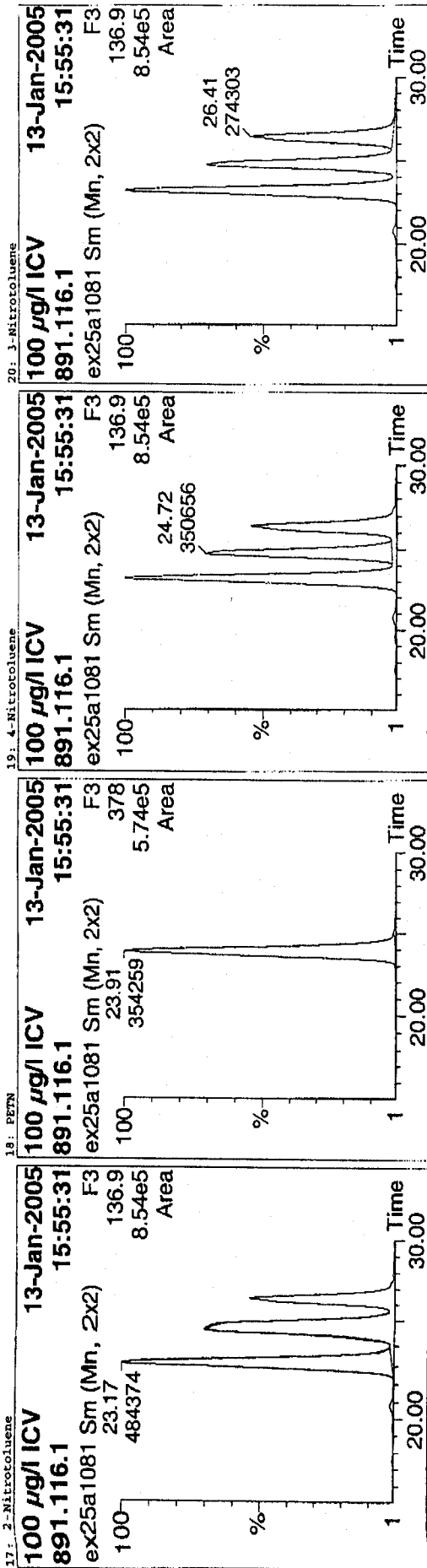
Analyst: Tim O'Donnell

Quantify Sample Report
Explosives Analysis

Sample List: C:\Wasslynx\Explosives.FPO\SampleDB\ex25a05(9)
Last Modified: Fri Jan 14 12:37:46 2005
Method: C:\Wasslynx\Explosives.FPO\MethodB\ex25a09b
Last Modified: Thu Jan 13 06:31:43 2005
Job Code:

Printed: Fri Jan 14 13:02:56 2005

Name: ex25a1081
Test: 100 µg/l ICV



18: PETN

IS Area Response Flags Result %Rec Mod.Date Mod.Comment

#	Name	RT	Area	IS Area	Response	Flags	Result	%Rec	Mod.Date	Mod.Comment
1	HMXX	7.18	1972468	2863110	0.689	bb	0.547	110.03		
2	RDX 13C-3 284 (IS)	9.84	2863110	2863109	0.261	bb	0.793	79.32		
3	RDX	9.84	745877	2863110	0.635	bb	0.407	81.76		
4	1,3,5-Trinitrobenzene	12.63	565702	891009	0.635	bb	0.380	76.33		
5	Tetryl	14.40	1112275	891009	1.248	db	0.422	84.77		
6	Dinitrobenzene-d4 (IS)	14.80	891009	891009	0.331	bs	1.027	102.67		
7	1,3-Dinitrobenzene	14.94	294514	891009	0.344	bb	0.376	75.48		
8	Nitrobenzene-d5	15.84	306288	891009	0.043	bb	0.532	106.88		
9	Nitroglycerin	15.78	38524	891009	0.288	bb	0.435	87.71		
10	Nitrobenzene	16.16	256360	891009	1.803	bs	0.413	83.02		
11	2,4,6-Trinitrotoluene	17.52	1606048	891009	1.380	bd	0.407	81.79		
12	4-Amino-2,6-dinitrotoluene	18.29	1053324	2769035	0.335	db	0.395	79.37		
13	2-Amino-4,6-dinitrotoluene	19.65	927683	2769035	0.682	bd	0.392	78.73		
14	2,6-Dinitrotoluene	19.80	1887715	2769035	2769034	ds	1.061	106.11		
15	2,4-Dinitrotoluene (IS)	20.70	2769035	2769035	0.373	db	0.401	80.55		
16	2,4-Dinitrotoluene	20.83	1033020	2769035	0.175	bb	0.430	86.44		
17	2-Nitrotoluene	23.17	54259	2769035	0.128	bd	0.370	74.44		
18	PETN	23.91	354259	2769035	0.399	bb	0.588	78.01		
19	4-Nitrotoluene	24.72	350656	2769035	0.432	bb	0.432	86.84		
20	3-Nitrotoluene	26.41	274303	2769035						

Analyst: Steve Cowling

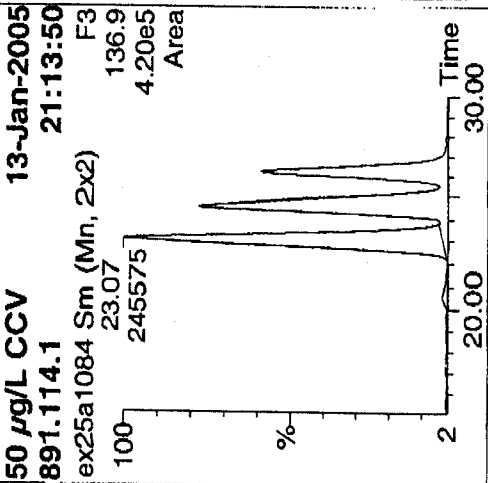
Quantify Sample Report
Explosives Analysis

Sample list: C:\Wasslynx\Explosives.PRO\SampleB\ex25a09(9)
Last modified: Fri Jan 14 12:37:46 2005
Method: C:\Wasslynx\Explosives.PRO\MethodA\ex25a09b
Last modified: Thu Jan 13 06:31:43 2005
Job Code:

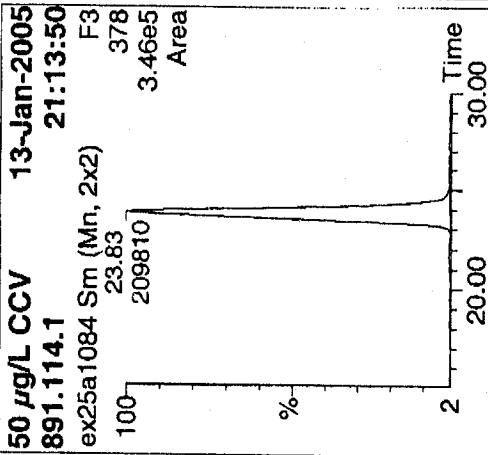
Printed: Fri Jan 14 13:02:56 2005

Name: ex25a1084
Test: 50 µg/L CCV

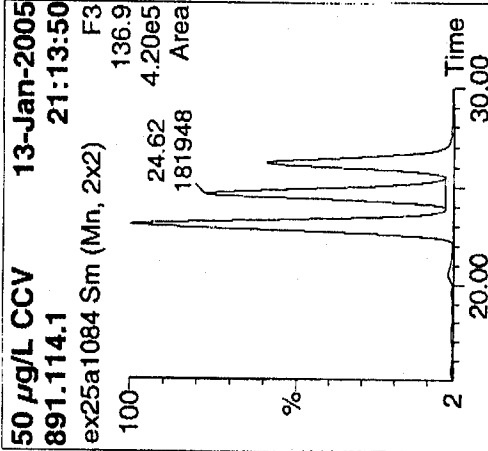
17. 2-Nitrotoluene



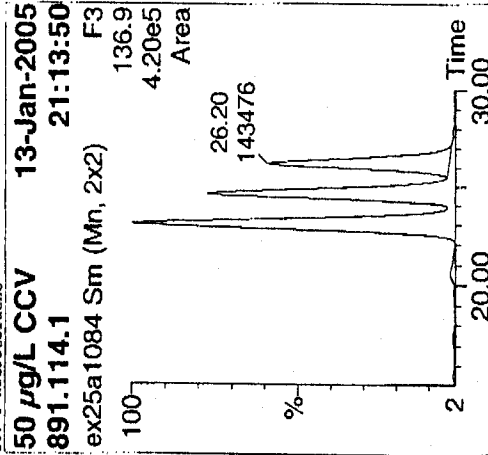
18. PNTN



19. 4-Nitrotoluene



20. 3-Nitrotoluene



#	Name	RT	Area	IS Area	Response	Flags	Result	Area	Mod. Date	Mod. Comment
1	HMV	7.17	1157158	3373470	0.343	bb	47.592	95.36		
2	RDV 13C-3 284 (IS)	9.79	3373470	3373470	bb		0.935	93.46		
3	RDV	9.81	558332	3373470	0.166	bb	50.967	101.93		
4	1,3,5-Trinitrobenzene	12.56	332071	770260	0.431	bb	50.900	101.80		
5	Tetryl	14.36	533271	770260	0.692	bb	45.905	91.81		
6	Dinitrobenzene-d4 (IS)	14.70	770260	770259	bb		0.888	88.76		
7	1,3-Dinitrobenzene	14.83	169077	770260	0.220	bs	50.285	100.57		
8	Nitrobenzene-d5	15.82	124844	770260	0.162	bb	50.561	101.12		
9	Nitroglycerin	15.69	18729	770260	0.024		45.902	91.80	14-Jan-05	
10	Nitrobenzene	16.08	126499	770260	0.164		47.521	95.04	14-Jan-05	
11	2,4,6-Trinitrotoluene	17.39	971061	770260	1.261	bs	56.492	112.98	14-Jan-05	
12	4-Amino-2,6-dinitrotoluene	18.17	547897	2172487	0.252		54.232	108.46	14-Jan-05	
13	2-Amino-4,6-dinitrotoluene	19.54	504581	2172487	0.232		54.841	109.68	14-Jan-05	
14	2,6-Dinitrotoluene	19.69	1031445	2172487	0.323		54.853	109.71	14-Jan-05	
15	2,4-Dinitrotoluene	20.55	2172487	2172487	0.475		0.833	83.25	14-Jan-05	
16	2,4-Dinitrotoluene-d3 (IS)	20.74	506413	2172487	0.233		50.232	100.46	14-Jan-05	
17	2-Nitrotoluene	23.07	245575	2172487	0.113		56.017	112.03	14-Jan-05	
18	PNTN	23.83	209810	2172487	0.097		54.661	109.32	14-Jan-05	
19	4-Nitrotoluene	24.62	181948	2172487	0.084		51.739	103.48	14-Jan-05	
20	3-Nitrotoluene	26.20	143476	2172487	0.066	bb	58.081	116.16		

Analyst: Steve Cowling

Quantify Compound Summary Report
Explosives Analysis

Sample List: C:\Masslynx\Explosives.PRO\SampleB\ex25a09(9)
Last modified: Fri Jan 14 12:37:46 2005
Method: C:\Masslynx\Explosives.PRO\MethDB\ex25a09b
Last modified: Thu Jan 13 06:31:43 2005
Job Code:

Printed: Fri Jan 14 13:02:38 2005

Compound 2: MDX 13C-3 284 (I#S) Sample List: ex25a09(9) Method File: ex25a09b
Response Factor: 3.60937e6
RVF SD: 199639, % Relative SD: 5.53113
Response Type: External Std, Area
Curve Type: NF

# Name	Sample Text	ID	Type	Std C..	RV	Area	IS Area I#S	Response	Flags	Result(µg/L or kg)	µSec	Vf(ml)	Vs(ml or g)	DF	Inj	Cal File
1	ex25a1063		Blank		9.84	3563890	0	3563889.750	bb	0.987	98.7	1.000	1.000	1.00	50	ex25a09b
2	ex25a1064	891.111.1	Blank	1.00	9.76	3661522	0	3661522.250	bb	1.014	101.4	1.000	1.000	1.00	50	ex25a09b
3	ex25a1065	891.111.2	Standard	1.00	9.77	3595800	0	3595800.000	bb	0.996	99.6	1.000	1.000	1.00	50	ex25a09b
4	ex25a1066	891.111.3	Standard	1.00	9.81	3917018	0	3917017.500	bb	1.085	108.5	1.000	1.000	1.00	50	ex25a09b
5	ex25a1067	891.111.4	Standard	1.00	9.77	3544264	0	3544264.250	bb	0.982	98.2	1.000	1.000	1.00	50	ex25a09b
6	ex25a1068	891.111.5	Standard	1.00	9.74	3786159	0	3786159.250	bb	1.049	104.9	1.000	1.000	1.00	50	ex25a09b
7	ex25a1069	891.111.6	Standard	1.00	9.76	3405269	0	3405268.500	bb	0.943	94.3	1.000	1.000	1.00	50	ex25a09b
8	ex25a1070	891.111.7	Standard	1.00	9.74	3355535	0	3355535.000	bb	0.930	93.0	1.000	1.000	1.00	50	ex25a09b
9	ex25a1071	891.111.8	Standard	1.00	9.74	3668297	0	3668297.250	bb	1.016	101.6	1.000	1.000	1.00	50	ex25a09b
10	ex25a1073	R4L210000-0.62 MB	Blank		9.86	3555423	0	3555422.750	bb	0.985	98.5	5.000	1000.000	1.00	50	ex25a09b
11	ex25a1074	R4L210000-0.62 LCS	GLJ6GLAA QC	1.00	9.90	3870336	0	3870336.250	bb	0.851	85.1	5.000	1000.000	1.00	50	ex25a09b
12	ex25a1075	D4L180244-0.01	GLJ6FLAC QC	1.00	9.89	3032185	0	3032184.500	bb	0.840	84.0	5.000	1046.000	1.00	50	ex25a09b
13	ex25a1076	D4L180244-0.01/MS	GIGLFLAC QC	1.00	9.87	2633945	0	2633945.000	bb	0.729	73.0	5.000	1046.000	1.00	50	ex25a09b
14	ex25a1077	D4L180244-0.01/MSD	GIGLFLAC QC	1.00	9.91	2632287	0	2632287.250	bb	0.729	72.9	5.000	1049.000	1.00	50	ex25a09b
15	ex25a1078	D4L180244-0.02	GIGLFLAC QC	1.00	9.90	3069751	0	3069751.250	bb	0.850	85.0	5.000	1055.000	1.00	50	ex25a09b
16	ex25a1079	D4L180244-0.04	GIGLFLAC QC	1.00	9.89	2758331	0	2758331.500	bb	0.764	76.4	5.000	1039.000	1.00	50	ex25a09b
17	ex25a1080	D4L180244-0.05	GIGLFLAC QC	1.00	9.84	2481736	0	2481736.000	bb	0.688	68.8	5.000	1005.000	1.00	50	ex25a09b
18	ex25a1081	100 µg/l ICV	891.116.1 QC	1.00	9.84	2863110	0	2863109.500	bb	0.793	79.3	5.000	1005.000	1.00	50	ex25a09b
19	ex25a1082	D4L180244-0.06	GIGLFLAC QC	1.00	9.90	2554947	0	2554947.250	bb	0.708	70.8	5.000	1048.000	1.00	50	ex25a09b
20	ex25a1083	D4L180244-0.07	GIGLFLAC QC	1.00	9.90	2348353	0	2348352.500	bb	0.651	65.1	5.000	1027.000	1.00	50	ex25a09b
21	ex25a1084	50 µg/L CCV	891.114.1 QC	1.00	9.79	3373470	0	3373470.250	bb	0.935	93.5	1.000	1.000	1.00	50	ex25a09b

Analyst: Steve Cowling

Quantify Compound Summary Report
Explosives Analysis

Sample List: C:\Masslynx\Explosives.PRO\SampleDB\ex25a09(9)
Last modified: Fri Jan 14 12:37:46 2005
Method: C:\Masslynx\Explosives.PRO\MethodDB\ex25a09b
Last modified: Thu Jan 13 05:31:43 2005
Job Code:

Printed: Fri Jan 14 13:02:38 2005

Compound 6: Dinitrobenzene-CH4 (IS) Sample List: ex25a09(9) Method File: ex25a09b
Response Factor: 867894
XRF SD: 37825.6, % Relative SD: 4.35877
Response Type: External Std, Area
Curve Type: RF

# Name	Sample Text	ID	Type	Std C..	RT	Area	IS Area IS#	Response	Flags Result (ug/L or kg)	Area Vf (uL)	Vs (ug or g)	DF	Inj	Cal File
1 ex25a1063	Blank	891.111.1	Blank	1.00	14.67	868549	0	86848.938	bb	1.001	1.000	1.00	50	ex25a09b
2 ex25a1064	5 ug/L	891.111.2	Standard	1.00	14.72	865464	0	86543.563	bb	0.997	1.000	1.00	50	ex25a09b
3 ex25a1065	10 ug/L	891.111.3	Standard	1.00	14.67	896653	0	896652.813	bb	1.031	1.000	1.00	50	ex25a09b
4 ex25a1066	25 ug/L	891.111.4	Standard	1.00	14.65	876508	0	876508.188	bb	1.010	1.000	1.00	50	ex25a09b
5 ex25a1067	50 ug/L	891.114.1	Standard	1.00	14.67	801035	0	801034.938	bb	0.923	1.000	1.00	50	ex25a09b
6 ex25a1068	100 ug/L	891.114.2	Standard	1.00	14.67	919542	0	919542.063	bb	1.060	1.000	1.00	50	ex25a09b
7 ex25a1069	200 ug/L	891.111.7	Standard	1.00	14.65	844818	0	844818.250	bb	0.974	1.000	1.00	50	ex25a09b
8 ex25a1070	300 ug/L	891.111.8	Standard	1.00	14.67	870608	0	870608.188	bb	1.003	1.000	1.00	50	ex25a09b
9 ex25a1071	Blank	891.111.1	Blank	1.00	14.67	862745	0	862744.500	bb	0.994	1.000	1.00	50	ex25a09b
10 ex25a1073	R4L210000-D-62 MB	G1J6G1AA	Blank	1.00	14.79	1031091	0	1031092.875	bb	1.188	1.000	1.00	50	ex25a09b
11 ex25a1074	R4L210000-D-62 LCS	G1J6G1AC	QC	1.00	14.80	912379	0	912378.813	bb	1.051	1.000	1.00	50	ex25a09b
12 ex25a1075	D4L180244-D-01	G1G1FIAC	Analyte	1.00	14.79	1027987	0	1027986.938	bb	1.185	1.000	1.00	50	ex25a09b
13 ex25a1076	D4L180244-D-01/MS	G1G1FIAP	QC	1.00	14.80	1044959	0	1044959.313	bb	1.204	1.000	1.00	50	ex25a09b
14 ex25a1077	D4L180244-D-01/MS	G1G1FIAG	QC	1.00	14.79	949338	0	949338.188	bb	1.094	1.000	1.00	50	ex25a09b
15 ex25a1078	D4L180244-D-02	G1G1G1AA	Analyte	1.00	14.80	836648	0	836648.125	bb	0.964	1.000	1.00	50	ex25a09b
16 ex25a1079	D4L180244-D-04	G1G1G1AA	Analyte	1.00	14.79	916780	0	916780.000	bb	1.056	1.000	1.00	50	ex25a09b
17 ex25a1080	D4L180244-D-05	G1G1G1AA	Analyte	1.00	14.80	862411	0	862410.563	bb	0.994	1.000	1.00	50	ex25a09b
18 ex25a1081	100 ug/L IC-V	891.116.1	QC	1.00	14.80	891009	0	891009.063	bb	1.027	1.000	1.00	50	ex25a09b
19 ex25a1082	D4L180244-D-06	G1G1G1AA	Analyte	1.00	14.80	953415	0	953415.313	bb	1.059	1.000	1.00	50	ex25a09b
20 ex25a1083	D4L180244-D-07	G1G1G1AA	Analyte	1.00	14.80	917505	0	917505.313	bb	1.057	1.000	1.00	50	ex25a09b
21 ex25a1084	50 ug/L CCV	891.114.1	QC	1.00	14.70	770260	0	770259.688	bb	0.888	1.000	1.00	50	ex25a09b

Analyst: Steve Cowling

Quantify Compound Summary Report
Explosives Analysis

Sample List: C:\Masslynx\Explosives.Pro\SampleDB\ex25a09(9)
Last modified: Fri Jan 14 12:37:46 2005
Method: C:\Masslynx\Explosives.Pro\MethDB\ex25a09b
Last modified: Thu Jan 13 06:31:43 2005
Job Code:

Printed: Fri Jan 14 13:02:38 2005

Compound 15: 2,4-Dinitrotoluene-d3 (IS) Sample List: ex25a09(9) Method File: ex25a09b
Response Factor: 2.60955e6
RF SD: 78864.2, % Relative SD: 3.02214
Response type: External Std., Area
Curve type: N7

# Name	Sample Text	ID	Type	Std C..	RT	Area	IS Area	IS#	Response	Flags	Result (ug/L or kg)	%Rec	VF (mL)	Va (mL or g)	DF	Inj	Cal. File
1 ex25a1063	Blank	891.111.1	Blank	1.00	20.51	2437328		0	2437327.750	ds	0.934	93.4	1.000	1.000	1.00	50	ex25a09b
2 ex25a1064	5 ug/L	891.111.2	Standard	1.00	20.51	2544461		0	2544460.500	ds	0.975	97.5	1.000	1.000	1.00	50	ex25a09b
3 ex25a1065	10 ug/L	891.111.3	Standard	1.00	20.51	2625324		0	2625324.250	db	1.006	100.6	1.000	1.000	1.00	50	ex25a09b
4 ex25a1066	25 ug/L	891.111.4	Standard	1.00	20.51	2692920		0	2692919.750	db	1.032	103.2	1.000	1.000	1.00	50	ex25a09b
5 ex25a1067	50 ug/L	891.111.5	Standard	1.00	20.51	2487452		0	2487452.250	ds	0.953	95.3	1.000	1.000	1.00	50	ex25a09b
6 ex25a1068	100 ug/L	891.111.6	Standard	1.00	20.51	2578381		0	2578381.000	ds	0.988	98.8	1.000	1.000	1.00	50	ex25a09b
7 ex25a1069	200 ug/L	891.111.7	Standard	1.00	20.51	2707217		0	2707216.750	ds	1.037	103.7	1.000	1.000	1.00	50	ex25a09b
8 ex25a1070	300 ug/L	891.111.8	Standard	1.00	20.51	2631073		0	2631073.250	db	1.008	100.8	1.000	1.000	1.00	50	ex25a09b
9 ex25a1071	Blank	891.111.1	Blank	1.00	20.51	2252058		0	2252058.250	ds	0.863	86.3	1.000	1.000	1.00	50	ex25a09b
10 ex25a1073	R4L210000-O-62 ME	GIJ6G1AA	Blank	1.00	20.64	2879138		0	2879138.000	db	1.103	110.3	5.000	1000.000	1.00	50	ex25a09b
11 ex25a1074	R4L210000-O-62 LCS	GIJ6G1AC	QC	1.00	20.64	2991581		0	2991580.750	ds	1.146	114.6	5.000	1000.000	1.00	50	ex25a09b
12 ex25a1075	D4L180244-O-01	GIJ6FIAC	Analyte	1.00	20.71	2595183		0	2595183.250	db	0.994	99.4	5.000	1046.000	1.00	50	ex25a09b
13 ex25a1076	D4L180244-O-01/MS	GIJ6FIAP	QC	1.00	20.70	2660724		0	2660724.000	db	1.020	102.0	5.000	1049.000	1.00	50	ex25a09b
14 ex25a1077	D4L180244-O-01/MSD	GIJ6FIAG	QC	1.00	20.71	2639207		0	2639207.000	db	1.011	101.1	5.000	1049.000	1.00	50	ex25a09b
15 ex25a1078	D4L180244-O-02	GIJ6G1AA	Analyte	1.00	20.70	2692138		0	2692137.750	ds	1.032	103.2	5.000	1055.000	1.00	50	ex25a09b
16 ex25a1079	D4L180244-O-04	GIJ6G1AA	Analyte	1.00	20.70	2509927		0	2509936.500	ds	0.962	96.2	5.000	1039.000	1.00	50	ex25a09b
17 ex25a1080	D4L180244-O-05	GIJ6K1AA	Analyte	1.00	20.70	2547571		0	2547571.250	ds	0.976	97.6	5.000	1005.000	1.00	50	ex25a09b
18 ex25a1081	100 ug/L ICV	891.116.1	QC	1.00	20.70	2769035		0	2769034.750	ds	1.061	106.1	5.000	1005.000	1.00	50	ex25a09b
19 ex25a1082	D4L180244-O-06	GIJ6L1AA	Analyte	1.00	20.70	2457357		0	2457357.250	db	0.942	94.2	5.000	1048.000	1.00	50	ex25a09b
20 ex25a1083	D4L180244-O-07	GIJ6M1AA	Analyte	1.00	20.70	2366001		0	2366001.000	ds	0.904	90.4	5.000	1027.000	1.00	50	ex25a09b
21 ex25a1084	50 ug/L CCV	891.114.1	QC	1.00	20.55	2172487		0	2172487.000	ds	0.833	83.3	1.000	1.000	1.00	50	ex25a09b

Analyst: Steve Cowling

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/21/04
Time: 15:13:33

LEV 1 2
Y Y
Y Y
Y Y
Y Y
MS/MSD
Blank
Check
Weights/Volumes
Spike & Surrogate Worksheet
Vial contains correct volume
Labels, greenbars, worksheets
computer batch: correct & all match
Anomalies to Extraction Method

Expanded Deliverable
COC Completed
Bench Sheet Copied
Package Submitted to Analytical Group
Bench Sheet Copied per COC

Extractionist: 003658 Sara Havig
Concentrationist: 003658 Sara Havig

* QC BATCH: 4356062 *
* *****

PREP DATE: 12/21/04 7:00
COMP DATE: 12/21/04 15:30

Reviewer/Date: HAVIGSA / 12/21/04

8321A, Explosives by LOMS
SOLID PHASE EXTRACTION (NOMINAL)

EXTR EXPR	ANL DUE	LOT#, WORK ORDER	MSRUN#/ TEST FLGS	EXT MTH	MATRIX	INIT/ WT/VOL	PH'S ADJ1	ADJ2	EXTRACTION VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
12/23/04	1/03/05	D4L180244-001 G1GLF-1-AC LIGHT YELLOW	D	B7	BX	WATER 1046mL 5.00mL	NA	NA	ACN	2.5	0	1ML 891.70.1 12-9-04
12/23/04	1/03/05	D4L180244-001 G1GLF-1-AFS LIGHT YELLOW	D	B7	BX	WATER 1046mL 5.00mL	NA	NA	ACN	2.5	0	1ML 891.67.1 12-8-04 1ML 891.70.1 12-9-04
12/23/04	1/03/05	D4L180244-001 G1GLF-1-AGD LIGHT YELLOW	D	B7	BX	WATER 1049mL 5.00mL	NA	NA	ACN	2.5	0	1ML 891.67.1 12-8-04 1ML 891.70.1 12-9-04
12/23/04	1/03/05	D4L180244-002 G1GLG-1-AA	D	B7	BX	WATER 1055mL 5.00mL	NA	NA	ACN	2.5	0	1ML 891.70.1 12-9-04
12/23/04	1/03/05	D4L180244-004 G1GLJ-1-AA	D	B7	BX	WATER 1039mL 5.00mL	NA	NA	ACN	2.5	0	1ML 891.70.1 12-9-04
12/23/04	1/03/05	D4L180244-005 G1GLK-1-AA	D	B7	BX	WATER 1005mL 5.00mL	NA	NA	ACN	2.5	0	1ML 891.70.1 12-9-04
12/23/04	1/03/05	D4L180244-006 G1GLL-1-AA	D	B7	BX	WATER 1048mL 5.00mL	NA	NA	ACN	2.5	0	1ML 891.70.1 12-9-04

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/21/04
Time: 15:13:33

* QC BATCH: 4356062 *
* PREP DATE: 12/21/04 7:00
* COMP DATE: 12/21/04 15:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/FLN WT/VOL	PH'S ADJ1	ADJ2	EXTRACTION VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
	12/24/04	1/03/05	D	B7	BX	1027mL 5.00mL	NA	NA	ACN	2.5	.0	IML 891.70.1 12-9-04
COMMENTS:		D4L180244-007 GLJ6G-1-AA										
	12/23/04	0/00/00		B7	BX	1000mL 5.00mL	NA	NA	ACN	2.5	.0	IML 891.70.1 12-9-04
COMMENTS:		R4L210000-062 GLJ6G-1-AAB										
	12/23/04	0/00/00		B7	BX	1000mL 5.00mL	NA	NA	ACN	2.5	.0	IML 891.67.1 12-8-04 IML 891.70.1 12-9-04
COMMENTS:		R4L210000-062 GLJ6G-1-ACC										

DEN-LC-0010 ACN: A18803 H2O: ELGA/HPLC A02E01 S/S: SMH W: AA
CARTRIDGES: S214-19/12755-4 0.1% ACETIC ACID: 891.59.1
SHARE BLANK, LCS W/ 4356059

R = RUSH C = CLP
E = EPA 600 D = EXP. DEL
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 10

SECTION 4

DUPONT DATA REVIEW OUTPUT

<i>SITE</i>	<i>PROJECT</i>	<i>MATRIX</i>	<i>THEME</i>	<i>SMPLT</i>	<i>COUNT(*)</i>
BAR	RESIDENT WELLS 12/04	WATER	Blank Water	TB	1
BAR	RESIDENT WELLS 12/04	WATER	Groundwater	FS	7

SITE	PROJECT	LAB	METHOD_CODE
BARKSDALE WORKS	RESIDENT WELLS 12/04	QES-DEN	8260B
BARKSDALE WORKS	RESIDENT WELLS 12/04	QES-DEN	8321

SITE	PROJECT	SAMPLENO	LOCATION	LAB	LAB ID	DATESMPL	THEME	SMPLT
BARKSDALE WORKS	RESIDENT WELLS 12/04	BAR-G-30300N-INFLOW	30300N-INFLOW	QES-DEN	G1GLL1-AA FS	12/16/2004 12:50	Groundwater	FS
BARKSDALE WORKS	RESIDENT WELLS 12/04	BAR-G-30380N-INFLOW	30380N-INFLOW	QES-DEN	G1GLK1-AA FS	12/16/2004 10:30	Groundwater	FS
BARKSDALE WORKS	RESIDENT WELLS 12/04	BAR-G-30490N-INFLOW	30490N-INFLOW	QES-DEN	G1GLM1-AA FS	12/17/2004 7:30	Groundwater	FS
BARKSDALE WORKS	RESIDENT WELLS 12/04	BAR-G-72730H-INFLOW	72730H-INFLOW	QES-DEN	G1GLJ1-AA FS	12/16/2004 15:40	Groundwater	FS
BARKSDALE WORKS	RESIDENT WELLS 12/04	BAR-G-72790H-EFFLUENT	72790H-EFFLUENT	QES-DEN	G1GLG1-AA FS	12/16/2004 16:25	Groundwater	FS
BARKSDALE WORKS	RESIDENT WELLS 12/04	BAR-G-72790H-INFLOW	72790H-INFLOW	QES-DEN	G1GLF1-AA FS	12/16/2004 16:20	Groundwater	FS
BARKSDALE WORKS	RESIDENT WELLS 12/04	BAR-G-72790H-INFLOW	72790H-INFLOW	QES-DEN	G1GLF1-AC FS	12/16/2004 16:20	Groundwater	FS
BARKSDALE WORKS	RESIDENT WELLS 12/04	BAR-K-TBLK1	TBLK1	QES-DEN	G1GLH1-AA TB	12/16/2004 16:30	Blank Water	TB

QUERY RETURNED NO DATA RECORDS

QUERY RETURNED NO DATA RECORDS

SITENAME	PROJECT	LOCATION	SAMPLENO	DATESMPL	LAB	LAB_ID	METHOD	CASNO	ANALYTE
BARKSDALE WORKS	RESIDENT WELLS 1204	72790H-INFLOW	BAR-G-72790H-INFLOW	12/16/2004 16:20	QES-DEN	G1GLF1-AA FS	82608	1634044	METHYL TERTIARY BUTYL ETHER
BARKSDALE WORKS	RESIDENT WELLS 1204	72790H-INFLOW	BAR-G-72790H-INFLOW	12/16/2004 16:20	QES-DEN	G1GLF1-AA FS	82608	75150	CARBON DISULFIDE
BARKSDALE WORKS	RESIDENT WELLS 1204	72790H-INFLOW	BAR-G-72790H-INFLOW	12/16/2004 16:20	QES-DEN	G1GLF1-AA FS	82608	78833	METHYL ETHYL KETONE
BARKSDALE WORKS	RESIDENT WELLS 1204	TBLK1	BAR-K-TBLK1	12/16/2004 16:30	QES-DEN	G1GLH1-AA TB	82608	1634044	METHYL TERTIARY BUTYL ETHER
BARKSDALE WORKS	RESIDENT WELLS 1204	TBLK1	BAR-K-TBLK1	12/16/2004 16:30	QES-DEN	G1GLH1-AA TB	82608	78833	METHYL ETHYL KETONE
BARKSDALE WORKS	RESIDENT WELLS 1204	TBLK1	BAR-K-TBLK1	12/16/2004 16:30	QES-DEN	G1GLH1-AA TB	82608	75150	CARBON DISULFIDE
BARKSDALE WORKS	RESIDENT WELLS 1204	30390N-INFLOW	BAR-G-30390N-INFLOW	12/16/2004 12:50	QES-DEN	G1GLI1-AA FS	8321	98653	NITROBENZENE
BARKSDALE WORKS	RESIDENT WELLS 1204	72790H-EFFLUENT	BAR-G-72790H-EFFLUENT	12/16/2004 16:25	QES-DEN	G1GLI1-AA FS	8321	98653	NITROBENZENE
BARKSDALE WORKS	RESIDENT WELLS 1204	72790H-INFLOW	BAR-G-72790H-INFLOW	12/16/2004 16:20	QES-DEN	G1GLF1-AC FS	8321	98653	NITROBENZENE
BARKSDALE WORKS	RESIDENT WELLS 1204	30380N-INFLOW	BAR-G-30380N-INFLOW	12/16/2004 10:30	QES-DEN	G1GLI1-AA FS	8321	98653	NITROBENZENE
BARKSDALE WORKS	RESIDENT WELLS 1204	72730H-INFLOW	BAR-G-72730H-INFLOW	12/16/2004 15:40	QES-DEN	G1GLI1-AA FS	8321	98653	NITROBENZENE
BARKSDALE WORKS	RESIDENT WELLS 1204	30490N-INFLOW	BAR-G-30490N-INFLOW	12/17/2004 7:30	QES-DEN	G1GLM1-AA FS	8321	98653	NITROBENZENE
BARKSDALE WORKS	RESIDENT WELLS 1204	72790H-INFLOW	BAR-G-72790H-INFLOW	12/16/2004 16:20	QES-DEN	G1GLF1-AC FS	8321	3557282	2-AMINO-4,6-DINITROTOLUENE
BARKSDALE WORKS	RESIDENT WELLS 1204	72790H-EFFLUENT	BAR-G-72790H-EFFLUENT	12/16/2004 15:40	QES-DEN	G1GLI1-AA FS	8321	3557282	2-AMINO-4,6-DINITROTOLUENE
BARKSDALE WORKS	RESIDENT WELLS 1204	30380N-INFLOW	BAR-G-30380N-INFLOW	12/16/2004 12:50	QES-DEN	G1GLI1-AA FS	8321	3557282	2-AMINO-4,6-DINITROTOLUENE
BARKSDALE WORKS	RESIDENT WELLS 1204	30390N-INFLOW	BAR-G-30390N-INFLOW	12/16/2004 10:30	QES-DEN	G1GLI1-AA FS	8321	3557282	2-AMINO-4,6-DINITROTOLUENE
BARKSDALE WORKS	RESIDENT WELLS 1204	30490N-INFLOW	BAR-G-30490N-INFLOW	12/17/2004 7:30	QES-DEN	G1GLM1-AA FS	8321	3557282	2-AMINO-4,6-DINITROTOLUENE

RESULT	RESULT	UNITS	MDL	PQL	QUAL	INHOUSE	OUT CODE	OUT TEXT
<	1.3	UG/L	0.19	5	B		METHOD-BLANK	Contamination detected in Method Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated method blank(s).
<	0.44	UG/L	0.27	1	B		TRIP-BLANK	Contamination detected in Trip Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated trip blank(s).
<	1.3	UG/L	0.42	5	B		TRIP-BLANK	Contamination detected in Trip Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated trip blank(s).
<	1.1	UG/L	0.19	5	J		LAB-QUALIFIER	The reported result is greater than/equal to the MDL and less than the PQL; it should be considered an estimated value.
<	0.77	UG/L	0.42	5	J		LAB-QUALIFIER	The reported result is greater than/equal to the MDL and less than the PQL; it should be considered an estimated value.
<	0.36	UG/L	0.27	1	J		LAB-QUALIFIER	The reported result is greater than/equal to the MDL and less than the PQL; it should be considered an estimated value.
<	0.098	UG/L	0.098	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.
<	0.098	UG/L	0.098	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.
<	0.098	UG/L	0.098	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.
<	0.098	UG/L	0.098	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.
<	0.098	UG/L	0.098	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.
<	0.098	UG/L	0.098	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.
<	0.017	UG/L	0.017	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.
<	0.017	UG/L	0.017	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.
<	0.017	UG/L	0.017	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.
<	0.017	UG/L	0.017	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.
<	0.017	UG/L	0.017	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.
<	0.017	UG/L	0.017	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.
<	0.017	UG/L	0.017	0.12	UJ		LOW_BIAS_MD_LCS_ACC	Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

<u>QUAL</u>	<u>PRIORITY</u>	<u>LR_ID</u>	<u>DDR_CODE</u>
2	14481812	LABSTATS	
2	14481892	LABSTATS	
3	14481845	LABSTATS	
3	14482241	LABSTATS	
3	14482224	LABSTATS	
3	14482231	LABSTATS	
3	14482182	LABSTATS	
3	14481986	LABSTATS	
3	14481969	LABSTATS	
3	14482165	LABSTATS	
3	14482148	LABSTATS	
3	14482199	LABSTATS	
3	14481963	LABSTATS	
3	14482142	LABSTATS	
3	14481980	LABSTATS	
3	14482176	LABSTATS	
3	14482159	LABSTATS	
3	14482193	LABSTATS	

<u>ANALYTE</u>	<u>QUAL INHOUSE</u>
2-AMINO-4,6-DINITROTOLUENE	UJ
CARBON DISULFIDE	B
CARBON DISULFIDE	J
METHYL ETHYL KETONE	B
METHYL ETHYL KETONE	J
METHYL TERTIARY BUTYL ETHER	B
METHYL TERTIARY BUTYL ETHER	J
NITROBENZENE	UJ

REASON	# OF TIMES
LCS/LCSD recovery >10% but < lab supplied RPR limit	6
Analyte detected in trip blank.	1
MDL<Result<PQL.	1
Analyte detected in trip blank.	1
MDL<Result<PQL.	1
Analyte detected in method blank.	1
MDL<Result<PQL.	1
LCS/LCSD recovery >10% but < lab supplied RPR limit	6

SAMPLE NO	LOCATION	DATE SAMPLED	LAB	LAB SAMPLE ID	ANALYTICAL METHOD
BAR-G-30300N-INFLOW	30300N-INFLOW	12/16/2004	QES-DEN	G1GLL1-AA FS	8321
BAR-G-30300N-INFLOW	30300N-INFLOW	12/16/2004	QES-DEN	G1GLL1-AA FS	8321
BAR-G-30380N-INFLOW	30380N-INFLOW	12/16/2004	QES-DEN	G1GLK1-AA FS	8321
BAR-G-30380N-INFLOW	30380N-INFLOW	12/16/2004	QES-DEN	G1GLK1-AA FS	8321
BAR-G-30490N-INFLOW	30490N-INFLOW	12/17/2004	QES-DEN	G1GLM1-AA FS	8321
BAR-G-30490N-INFLOW	30490N-INFLOW	12/17/2004	QES-DEN	G1GLM1-AA FS	8321
BAR-G-72730H-INFLOW	72730H-INFLOW	12/16/2004	QES-DEN	G1GLJ1-AA FS	8321
BAR-G-72730H-INFLOW	72730H-INFLOW	12/16/2004	QES-DEN	G1GLJ1-AA FS	8321
BAR-G-72790H-EFFLUENT	72790H-EFFLUENT	12/16/2004	QES-DEN	G1GLG1-AA FS	8321
BAR-G-72790H-EFFLUENT	72790H-EFFLUENT	12/16/2004	QES-DEN	G1GLG1-AA FS	8321
BAR-G-72790H-INFLOW	72790H-INFLOW	12/16/2004	QES-DEN	G1GLF1-AA FS	8260B
BAR-G-72790H-INFLOW	72790H-INFLOW	12/16/2004	QES-DEN	G1GLF1-AA FS	8260B
BAR-G-72790H-INFLOW	72790H-INFLOW	12/16/2004	QES-DEN	G1GLF1-AA FS	8260B
BAR-G-72790H-INFLOW	72790H-INFLOW	12/16/2004	QES-DEN	G1GLF1-AA FS	8321
BAR-G-72790H-INFLOW	72790H-INFLOW	12/16/2004	QES-DEN	G1GLF1-AC FS	8321
BAR-K-TBLK1	TBLK1			G1GLH1-AA TB	8260B
BAR-K-TBLK1	TBLK1			G1GLH1-AA TB	8260B
BAR-K-TBLK1	TBLK1			G1GLH1-AA TB	8260B

CASNO	ANALYTE	RESULT	UNITS	MDL	PQL	DDR QUALIFIER	REVIEW QUALIFIER
35572782	2-AMINO-4,6-DINITROTOLUENE	0.017	UG/L	0.017	0.12	UJ	
98953	NITROBENZENE	0.036	UG/L	0.036	0.12	UJ	
35572782	2-AMINO-4,6-DINITROTOLUENE	0.017	UG/L	0.017	0.12	UJ	
98953	NITROBENZENE	0.036	UG/L	0.036	0.12	UJ	
35572782	2-AMINO-4,6-DINITROTOLUENE	0.017	UG/L	0.017	0.12	UJ	
98953	NITROBENZENE	0.036	UG/L	0.036	0.12	UJ	
35572782	2-AMINO-4,6-DINITROTOLUENE	0.017	UG/L	0.017	0.12	UJ	
98953	NITROBENZENE	0.036	UG/L	0.036	0.12	UJ	
35572782	2-AMINO-4,6-DINITROTOLUENE	0.017	UG/L	0.017	0.12	UJ	
98953	NITROBENZENE	0.036	UG/L	0.036	0.12	UJ	
75150	CARBON DISULFIDE	0.44	UG/L	0.27	1	B	
78933	METHYL ETHYL KETONE	1.5	UG/L	0.42	5	B	
1634044	METHYL TERTIARY BUTYL ETHER	1.3	UG/L	0.19	5	B	
35572782	2-AMINO-4,6-DINITROTOLUENE	0.017	UG/L	0.017	0.12	UJ	
98953	NITROBENZENE	0.036	UG/L	0.036	0.12	UJ	
75150	CARBON DISULFIDE	0.36	UG/L	0.27	1	J	
78933	METHYL ETHYL KETONE	0.77	UG/L	0.42	5	J	
1634044	METHYL TERTIARY BUTYL ETHER	1.1	UG/L	0.19	5	J	

LEVEL **MSG**

WARN No LCSD found for batch: 5030B 8260B 29-DEC-04 4364477 E
WARN No LCSD found for batch: SW3535 8321 21-DEC-04 4356062 LCMS2
WARN No MSD found for batch: 5030B 8260B 29-DEC-04 4364477 E
WARN No REP found for batch: 5030B 8260B 29-DEC-04 4364477 E
WARN No REP found for batch: SW3535 8321 21-DEC-04 4356062 LCMS2
WARN The lab provided a Preparation Date but there is no entry in the DV_CRITERIA table for hold time Preprep: NS Prep: 5030B Method: 8260B

WARN No REP found for batch: SW3535 8321 21-DEC-04 4356062 LCMS2 -- Site: BAR Project: RESIDENT WELLS 12/04 Sample no: Prepref
WARN No REP found for batch: SW3535 8321 21-DEC-04 4356062 LCMS2 -- Site: BAR Project: RESIDENT WELLS 12/04 Sample no: Prepref
WARN No REP found for batch: SW3535 8321 21-DEC-04 4356062 LCMS2 -- Site: BAR Project: RESIDENT WELLS 12/04 Sample no: Prepref
WARN No REP found for batch: SW3535 8321 21-DEC-04 4356062 LCMS2 -- Site: BAR Project: RESIDENT WELLS 12/04 Sample no: Prepref
WARN No REP found for batch: SW3535 8321 21-DEC-04 4356062 LCMS2 -- Site: BAR Project: RESIDENT WELLS 12/04 Sample no: Prepref
WARN No REP found for batch: SW3535 8321 21-DEC-04 4356062 LCMS2 -- Site: BAR Project: RESIDENT WELLS 12/04 Sample no: Prepref
WARN No REP found for batch: SW3535 8321 21-DEC-04 4356062 LCMS2 -- Site: BAR Project: RESIDENT WELLS 12/04 Sample no: Prepref
WARN No REP found for batch: SW3535 8321 21-DEC-04 4356062 LCMS2 -- Site: BAR Project: RESIDENT WELLS 12/04 Sample no: Prepref
WARN No REP found for batch: SW3535 8321 21-DEC-04 4356062 LCMS2 -- Site: BAR Project: RESIDENT WELLS 12/04 Sample no: Prepref
WARN No REP found for batch: SW3535 8321 21-DEC-04 4356062 LCMS2 -- Site: BAR Project: RESIDENT WELLS 12/04 Sample no: Prepref
WARN The lab provided a Preparation Date but there is no entry in the DV_CRITERIA table for hold time Preprep: NS Prep: 5030B Method: 826

3:prep: 5030B Prep: NS Method: 8260B Analyte: 108883(TOLUENE)
 3:prep: 5030B Prep: NS Method: 8260B Analyte: 108907(CHLOROBENZENE)
 3:prep: 5030B Prep: NS Method: 8260B Analyte: 71432(BENZENE)
 3:prep: 5030B Prep: NS Method: 8260B Analyte: 75354(1,1-DICHLOROETHENE)
 3:prep: 5030B Prep: NS Method: 8260B Analyte: 79016(TRICHLOROETHENE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 118967(2,4,6-TRINITROTOLUENE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 121142(2,4-DINITROTOLUENE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 121824(RDX)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 19406510(4-AMINO-2,6-DINITROTOLUENE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 2691410(OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 35572782(2-AMINO-4,6-DINITROTOLUENE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 479458(TETRYL)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 55630(NITROGLYCERIN)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 606202(2,6-DINITROTOLUENE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 78115(PENTAERYTHRITOL TETRANITRATE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 88722(2-NITROTOLUENE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 98953(NITROBENZENE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 99081(1-METHYL-3-NITROBENZENE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 99354(1,3,5-TRINITROBENZENE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 99650(1,3-DINITROBENZENE)
 10: Preprep: METHOD Prep: NS Method: 8321 Analyte: 99990(1-METHYL-4-NITROBENZENE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 100414(ETHYLBENZENE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 100425(STYRENE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 106467(1,4-DICHLOROBENZENE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 106934(1,2-DIBROMOETHANE (EDB))
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 107062(1,2-DICHLOROETHANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 108101(METHYL ISOBUTYL KETONE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 108678(1,3,5-TRIMETHYLBENZENE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 110543(HEXANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 120821(1,2,4-TRICHLOROBENZENE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 124481(CHLORODIBROMOMETHANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 127184(TETRACHLOROETHYLENE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 1330207(XYLENES)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 142289(1,3-DICHLOROPROPANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 1634044(METHYL TERTIARY BUTYL ETHER)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 540590(1,2-DICHLOROETHENE)

Preprep: 5030B Prep: NS Method: 8260B Analyte: 541731(1,3-DICHLOROENZENE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 56235(CARBON TETRACHLORIDE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 630206(1,1,1,2-TETRACHLOROETHANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 67641(ACETONE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 67663(CHLOROFORM)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 71556(1,1,1-TRICHLOROETHANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 74839(METHYL BROMIDE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 74873(METHYL CHLORIDE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 75003(ETHYL CHLORIDE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 75014(VINYL CHLORIDE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 75092(METHYLENE CHLORIDE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 75150(CARBON DISULFIDE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 75252(BROMOFORM)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 75274(BROMODICHLOROMETHANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 75343(1,1-DICHLOROETHANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 75694(TRICHLOROFLUOROMETHANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 75718(DICHLORODIFLUOROMETHANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 78875(1,2-DICHLOROPROPANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 78933(METHYL ETHYL KETONE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 79005(1,1,2-TRICHLOROETHANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 79345(1,1,2,2-TETRACHLOROETHANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 91203(NAPHTHALENE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 95501(1,2-DICHLOROENZENE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 95636(1,2,4-TRIMETHYLBENZENE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 96128(1,2-DIBROMO-3-CHLOROPROPANE)
 Preprep: 5030B Prep: NS Method: 8260B Analyte: 96184(1,2,3-TRICHLOROPROPANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 100414(ETHYLBENZENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 100425(STYRENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 106467(1,4-DICHLOROENZENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 106934(1,2-DIBROMOETHANE (EDB))
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 107062(1,2-DICHLOROETHANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 108101(METHYL ISOBUTYL KETONE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 108678(1,3,5-TRIMETHYLBENZENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 110543(HEXANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 120821(1,2,4-TRICHLOROENZENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 124481(CHLORODIBROMOMETHANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 127184(TETRACHLOROETHYLENE)

Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 1330207(XYLENES)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 142289(1,3-DICHLOROPROPANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 1634044(METHYL TERTIARY BUTYL ETHER)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 540590(1,2-DICHLOROETHENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 541731(1,3-DICHLOROBENZENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 56235(CARBON TETRACHLORIDE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 630206(1,1,1,2-TETRACHLOROETHANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 67641(ACETONE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 67663(CHLOROFORM)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 71556(1,1,1-TRICHLOROETHANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 74839(METHYL BROMIDE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 74873(METHYL CHLORIDE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 75003(ETHYL CHLORIDE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 75014(VINYL CHLORIDE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 75092(METHYLENE CHLORIDE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 75150(CARBON DISULFIDE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 75252(BROMOFORM)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 75274(BROMODICHLOROMETHANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 75343(1,1-DICHLOROETHANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 75694(TRICHLOROFUOROMETHANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 75718(DICHLORODIFLUOROMETHANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 78875(1,2-DICHLOROPROPANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 78933(METHYL ETHYL KETONE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 79005(1,1,2-TRICHLOROETHANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 79345(1,1,2,2-TETRACHLOROETHANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 91203(NAPHTHALENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 95501(1,2-DICHLOROBENZENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 95636(1,2,4-TRIMETHYLBENZENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 96128(1,2-DIBROMO-3-CHLOROPROPANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 96184(1,2,3-TRICHLOROPROPANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 100414(ETHYLBENZENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 100425(STYRENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 106467(1,4-DICHLOROBENZENE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 106934(1,2-DIBROMOETHANE (EDB))
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 107062(1,2-DICHLOROETHANE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 108101(METHYL ISOBUTYL KETONE)
 Sample Date: Preprep: 5030B Prep: NS Method: 8260B Analyte: 108678(1,3,5-TRIMETHYLBENZENE)

}OB Prep: NS Method: 8260B Analyte: 108883(TOLUENE)
 }OB Prep: NS Method: 8260B Analyte: 108907(CHLORO BENZENE)
 }OB Prep: NS Method: 8260B Analyte: 110543(HEXANE)
 }OB Prep: NS Method: 8260B Analyte: 120821(1,2,4-TRICHLORO BENZENE)
 }OB Prep: NS Method: 8260B Analyte: 124481(CHLORODIBROMOMETHANE)
 }OB Prep: NS Method: 8260B Analyte: 127184(TETRACHLOROETHYLENE)
 }OB Prep: NS Method: 8260B Analyte: 1330207(XYLENES)
 }OB Prep: NS Method: 8260B Analyte: 142289(1,3-DICHLOROPROPANE)
 }OB Prep: NS Method: 8260B Analyte: 1634044(METHYL TERTIARY BUTYL ETHER)
 }OB Prep: NS Method: 8260B Analyte: 540590(1,2-DICHLOROETHENE)
 }OB Prep: NS Method: 8260B Analyte: 541731(1,3-DICHLORO BENZENE)
 }OB Prep: NS Method: 8260B Analyte: 56235(CARBON TETRACHLORIDE)
 }OB Prep: NS Method: 8260B Analyte: 630206(1,1,1,2-TETRACHLOROETHANE)
 }OB Prep: NS Method: 8260B Analyte: 67641(ACETONE)
 }OB Prep: NS Method: 8260B Analyte: 67663(CHLOROFORM)
 }OB Prep: NS Method: 8260B Analyte: 71432(BENZENE)
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 }OB Prep: NS Method: 8260B Analyte: 74873(METHYL CHLORIDE)
 }OB Prep: NS Method: 8260B Analyte: 75003(ETHYL CHLORIDE)
 }OB Prep: NS Method: 8260B Analyte: 75014(VINYL CHLORIDE)
 }OB Prep: NS Method: 8260B Analyte: 75092(METHYLENE CHLORIDE)
 }OB Prep: NS Method: 8260B Analyte: 75150(CARBON DISULFIDE)
 }OB Prep: NS Method: 8260B Analyte: 75252(BROMOFORM)
 }OB Prep: NS Method: 8260B Analyte: 75274(BROMODICHLOROMETHANE)
 }OB Prep: NS Method: 8260B Analyte: 75343(1,1-DICHLOROETHANE)
 }OB Prep: NS Method: 8260B Analyte: 75354(1,1-DICHLOROETHENE)
 }OB Prep: NS Method: 8260B Analyte: 75694(TRICHLOROFLUOROMETHANE)
 }OB Prep: NS Method: 8260B Analyte: 75718(DICHLORODIFLUOROMETHANE)
 }OB Prep: NS Method: 8260B Analyte: 78875(1,2-DICHLOROPROPANE)
 }OB Prep: NS Method: 8260B Analyte: 78933(METHYL ETHYL KETONE)
 }OB Prep: NS Method: 8260B Analyte: 79005(1,1,2-TRICHLOROETHANE)
 }OB Prep: NS Method: 8260B Analyte: 79016(TRICHLOROETHENE)
 }OB Prep: NS Method: 8260B Analyte: 79345(1,1,2,2-TETRACHLOROETHANE)
 }OB Prep: NS Method: 8260B Analyte: 91203(NAPHTHALENE)
 }OB Prep: NS Method: 8260B Analyte: 95501(1,2-DICHLORO BENZENE)
 }OB Prep: NS Method: 8260B Analyte: 95636(1,2,4-TRIMETHYLBENZENE)

}OB Prep: NS Method: 8260B Analyte: 96128(1,2-DIBROMO-3-CHLOROPROPANE)
 }OB Prep: NS Method: 8260B Analyte: 96184(1,2,3-TRICHLOROPROPANE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 118967(2,4,6-TRINITROTOLUENE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 121142(2,4-DINITROTOLUENE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 121824(RDX)
 ep: METHOD Prep: NS Method: 8321 Analyte: 19406510(4-AMINO-2,6-DINITROTOLUENE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 2691410(OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 35572782(2-AMINO-4,6-DINITROTOLUENE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 479458(TETRYL)
 ep: METHOD Prep: NS Method: 8321 Analyte: 55630(NITROGLYCERIN)
 ep: METHOD Prep: NS Method: 8321 Analyte: 606202(2,6-DINITROTOLUENE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 78115(PENTAERYTHRITOL TETRANITRATE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 88722(2-NITROTOLUENE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 98953(NITROBENZENE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 99081(1-METHYL-3-NITROBENZENE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 99354(1,3,5-TRINITROBENZENE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 99650(1,3-DINITROBENZENE)
 ep: METHOD Prep: NS Method: 8321 Analyte: 99990(1-METHYL-4-NITROBENZENE)
 }B Prep: NS Method: 8260B Analyte: 100414(ETHYLBENZENE)
 }B Prep: NS Method: 8260B Analyte: 100425(STYRENE)
 }B Prep: NS Method: 8260B Analyte: 106467(1,4-DICHLOROBENZENE)
 }B Prep: NS Method: 8260B Analyte: 106934(1,2-DIBROMOETHANE (EDB))
 }B Prep: NS Method: 8260B Analyte: 107062(1,2-DICHLOROETHANE)
 }B Prep: NS Method: 8260B Analyte: 108101(METHYL ISOBUTYL KETONE)
 }B Prep: NS Method: 8260B Analyte: 108678(1,3,5-TRIMETHYLBENZENE)
 }B Prep: NS Method: 8260B Analyte: 110543(HEXANE)
 }B Prep: NS Method: 8260B Analyte: 120821(1,2,4-TRICHLOROBENZENE)
 }B Prep: NS Method: 8260B Analyte: 124481(CHLORODIBROMOMETHANE)
 }B Prep: NS Method: 8260B Analyte: 127184(TETRACHLOROETHYLENE)
 }B Prep: NS Method: 8260B Analyte: 1330207(XYLENES)
 }B Prep: NS Method: 8260B Analyte: 142289(1,3-DICHLOROPROPANE)
 }B Prep: NS Method: 8260B Analyte: 1634044(METHYL TERTIARY BUTYL ETHER)
 }B Prep: NS Method: 8260B Analyte: 540590(1,2-DICHLOROETHENE)
 }B Prep: NS Method: 8260B Analyte: 541731(1,3-DICHLOROBENZENE)
 }B Prep: NS Method: 8260B Analyte: 56235(CARBON TETRACHLORIDE)
 }B Prep: NS Method: 8260B Analyte: 630206(1,1,1,2-TETRACHLOROETHANE)
 }B Prep: NS Method: 8260B Analyte: 67641(ACETONE)

JB Prep: NS Method: 8260B Analyte: 67663(CHLOROFORM)
 JB Prep: NS Method: 8260B Analyte: 71556(1,1,1-TRICHLOROETHANE)
 JB Prep: NS Method: 8260B Analyte: 74839(METHYL BROMIDE)
 JB Prep: NS Method: 8260B Analyte: 74873(METHYL CHLORIDE)
 JB Prep: NS Method: 8260B Analyte: 75003(ETHYL CHLORIDE)
 JB Prep: NS Method: 8260B Analyte: 75014(VINYL CHLORIDE)
 JB Prep: NS Method: 8260B Analyte: 75092(METHYLENE CHLORIDE)
 JB Prep: NS Method: 8260B Analyte: 75150(CARBON DISULFIDE)
 JB Prep: NS Method: 8260B Analyte: 75252(BROMOFORM)
 JB Prep: NS Method: 8260B Analyte: 75274(BROMODICHLOROMETHANE)
 JB Prep: NS Method: 8260B Analyte: 75343(1,1-DICHLOROETHANE)
 JB Prep: NS Method: 8260B Analyte: 75694(TRICHLOROFUOROMETHANE)
 JB Prep: NS Method: 8260B Analyte: 75718(DICHLORODIFLUOROMETHANE)
 JB Prep: NS Method: 8260B Analyte: 78875(1,2-DICHLOROPROPANE)
 JB Prep: NS Method: 8260B Analyte: 78933(METHYL ETHYL KETONE)
 JB Prep: NS Method: 8260B Analyte: 79005(1,1,2-TRICHLOROETHANE)
 JB Prep: NS Method: 8260B Analyte: 79345(1,1,2,2-TETRACHLOROETHANE)
 JB Prep: NS Method: 8260B Analyte: 91203(NAPHTHALENE)
 JB Prep: NS Method: 8260B Analyte: 95501(1,2-DICHLOROBENZENE)
 JB Prep: NS Method: 8260B Analyte: 95636(1,2,4-TRIMETHYLBENZENE)
 JB Prep: NS Method: 8260B Analyte: 96128(1,2-DIBROMO-3-CHLOROPROPANE)
 JB Prep: NS Method: 8260B Analyte: 96184(1,2,3-TRICHLOROPROPANE)
 JB Prep: NS Method: 8260B Analyte: 100414(ETHYLBENZENE)
 JB Prep: NS Method: 8260B Analyte: 100425(STYRENE)
 JB Prep: NS Method: 8260B Analyte: 106467(1,4-DICHLOROBENZENE)
 JB Prep: NS Method: 8260B Analyte: 106934(1,2-DIBROMOETHANE (EDB))
 JB Prep: NS Method: 8260B Analyte: 107062(1,2-DICHLOROETHANE)
 JB Prep: NS Method: 8260B Analyte: 108101(METHYL ISOBUTYL KETONE)
 JB Prep: NS Method: 8260B Analyte: 108678(1,3,5-TRIMETHYLBENZENE)
 JB Prep: NS Method: 8260B Analyte: 108883(TOLUENE)
 JB Prep: NS Method: 8260B Analyte: 108907(CHLOROBENZENE)
 JB Prep: NS Method: 8260B Analyte: 110543(HEXANE)
 JB Prep: NS Method: 8260B Analyte: 120821(1,2,4-TRICHLOROBENZENE)
 JB Prep: NS Method: 8260B Analyte: 124481(CHLORODIBROMOMETHANE)
 JB Prep: NS Method: 8260B Analyte: 127184(TETRACHLOROETHYLENE)
 JB Prep: NS Method: 8260B Analyte: 1330207(XYLENES)
 JB Prep: NS Method: 8260B Analyte: 142289(1,3-DICHLOROPROPANE)

IB Prep: NS Method: 8260B Analyte: 1634044(METHYL TERTIARY BUTYL ETHER)
 IB Prep: NS Method: 8260B Analyte: 540590(1,2-DICHLOROETHENE)
 IB Prep: NS Method: 8260B Analyte: 541731(1,3-DICHLOROBENZENE)
 IB Prep: NS Method: 8260B Analyte: 56235(CARBON TETRACHLORIDE)
 IB Prep: NS Method: 8260B Analyte: 630206(1,1,1,2-TETRACHLOROETHANE)
 IB Prep: NS Method: 8260B Analyte: 67641(ACETONE)
 IB Prep: NS Method: 8260B Analyte: 67663(CHLOROFORM)
 IB Prep: NS Method: 8260B Analyte: 71432(BENZENE)
 IB Prep: NS Method: 8260B Analyte: 71556(1,1,1-TRICHLOROETHANE)
 IB Prep: NS Method: 8260B Analyte: 74839(METHYL BROMIDE)
 IB Prep: NS Method: 8260B Analyte: 74873(METHYL CHLORIDE)
 IB Prep: NS Method: 8260B Analyte: 75003(ETHYL CHLORIDE)
 IB Prep: NS Method: 8260B Analyte: 75014(VINYL CHLORIDE)
 IB Prep: NS Method: 8260B Analyte: 75092(METHYLENE CHLORIDE)
 IB Prep: NS Method: 8260B Analyte: 75150(CARBON DISULFIDE)
 IB Prep: NS Method: 8260B Analyte: 75252(BROMOFORM)
 IB Prep: NS Method: 8260B Analyte: 75274(BROMODICHLOROMETHANE)
 IB Prep: NS Method: 8260B Analyte: 75343(1,1-DICHLOROETHANE)
 IB Prep: NS Method: 8260B Analyte: 75354(1,1-DICHLOROETHENE)
 IB Prep: NS Method: 8260B Analyte: 75694(TRICHLOROFUOROMETHANE)
 IB Prep: NS Method: 8260B Analyte: 75718(DICHLORODIFLUOROMETHANE)
 IB Prep: NS Method: 8260B Analyte: 78875(1,2-DICHLOROPROPANE)
 IB Prep: NS Method: 8260B Analyte: 78933(METHYL ETHYL KETONE)
 IB Prep: NS Method: 8260B Analyte: 79005(1,1,2-TRICHLOROETHANE)
 IB Prep: NS Method: 8260B Analyte: 79016(TRICHLOROETHENE)
 IB Prep: NS Method: 8260B Analyte: 79345(1,1,2,2-TETRACHLOROETHANE)
 IB Prep: NS Method: 8260B Analyte: 91203(NAPHTHALENE)
 IB Prep: NS Method: 8260B Analyte: 95501(1,2-DICHLOROBENZENE)
 IB Prep: NS Method: 8260B Analyte: 95636(1,2,4-TRIMETHYLBENZENE)
 IB Prep: NS Method: 8260B Analyte: 96128(1,2-DIBROMO-3-CHLOROPROPANE)
 IB Prep: NS Method: 8260B Analyte: 96184(1,2,3-TRICHLOROPROPANE)
 3: METHOD Prep: NS Method: 8321 Analyte: 118967(2,4,6-TRINITROTOLUENE)
 3: METHOD Prep: NS Method: 8321 Analyte: 121142(2,4-DINITROTOLUENE)
 3: METHOD Prep: NS Method: 8321 Analyte: 121824(RDX)
 3: METHOD Prep: NS Method: 8321 Analyte: 19406510(4-AMINO-2,6-DINITROTOLUENE)
 3: METHOD Prep: NS Method: 8321 Analyte: 2691410(OCTAHYDRO-1,3,5,7-TETRAZOCINE)
 3: METHOD Prep: NS Method: 8321 Analyte: 35572782(2-AMINO-4,6-DINITROTOLUENE)

- 3: METHOD Prep: NS Method: 8321 Analyte: 479458(TETRYL)
- 3: METHOD Prep: NS Method: 8321 Analyte: 55630(NITROGLYCERIN)
- 3: METHOD Prep: NS Method: 8321 Analyte: 606202(2,6-DINITROTOLUENE)
- 3: METHOD Prep: NS Method: 8321 Analyte: 78115(PENTAERYTHRITOL TETRANITRATE)
- 3: METHOD Prep: NS Method: 8321 Analyte: 88722(2-NITROTOLUENE)
- 3: METHOD Prep: NS Method: 8321 Analyte: 98953(NITROBENZENE)
- 3: METHOD Prep: NS Method: 8321 Analyte: 99081(1-METHYL-3-NITROBENZENE)
- 3: METHOD Prep: NS Method: 8321 Analyte: 99354(1,3,5-TRINITROBENZENE)
- 3: METHOD Prep: NS Method: 8321 Analyte: 99650(1,3-DINITROBENZENE)
- 3: METHOD Prep: NS Method: 8321 Analyte: 99990(1-METHYL-4-NITROBENZENE)

0B

SECTION 5

**LABORATORY CASE NARRATIVE AND
PROJECT CHAIN-OF-CUSTODY RECORDS**

SAMPLE SUMMARY

D4L180244

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G1GLF	001	BAR-G-72790H-INFLOW	12/16/04	16:20
G1GLG	002	BAR-G-72790H-EFFLUENT	12/16/04	16:25 16:30
G1GLH	003	BAR-K-TBLK1	12/16/04	16:30
G1GLJ	004	BAR-G-72730H-INFLOW	12/16/04	15:40
G1GLK	005	BAR-G-30380N-INFLOW	12/16/04	10:30
G1GLL	006	BAR-G-30300N-INFLOW	12/16/04	12:50
G1GLM	007	BAR-G-30490N-INFLOW	12/17/04	07:30

NOTE(S):

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

Case Narrative

D4L180244

The following report contains the analytical results for seven samples received at STL Denver on December 18, 2004, according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided on each datasheet to assist in the interpretation of the results.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the Laboratory Quality Manual. All results have been found to meet all requirements of NELAC and any exceptions are noted below. STL Denver's State of Wisconsin certification number is 999615430.

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SUPPLEMENTAL QC INFORMATION

Sample Arrival and Receipt

The samples presented in this report were received at temperatures of 3.4 and 4.4°C. A chain of custody for sample BAR-G-73300BC-INFLOW was received indicating no sample was taken. All sample containers were received in an acceptable condition.

GC/MS Volatiles - Method 8260B

- Methyl tert-butyl ether was detected in the method blank associated with QC batch 4364477. Because the concentration in the method blank is at a level below the reporting limit, no corrective action is necessary. This analyte is also detected in the associated samples and are likely due to laboratory contamination.
- Carbon disulfide, 2-Butanone, and Methyl tert-butyl ether were detected in the Trip Blank, BAR-K-TBLK1, below the reporting limits. These analytes were also detected in the associated sample, BAR-G-72790H-INFLOW, at similar levels, indicating possible field or laboratory contamination.
- The MS/MSD performed on sample BAR-G-72790H-INFLOW exhibited spike compound recoveries for Benzene and 1,1-Dichloroethene outside control limits. Because the acceptable LCS data indicated that the analytical system was operating within control; therefore, corrective action is not necessary.
- No other anomalies were noted.

LC/MS Explosives – Method 8321

- The LCS associated with QC batch 4356062 exhibited spike compound recoveries outside control limits for 2-Amino-4,6-dinitrotoluene and Nitrobenzene. The LCS was reanalyzed with Nitrobenzene still outside the control limits. Because the holding time had expired and the spike compound recoveries for the associated MS/MSD were in control for these analytes, no further corrective action was taken. The client concurred with this decision.
- The MS/MSD performed on sample BAR-G-72790H-INFLOW exhibited RPD data for Nitroglycerin outside control limits. All spike compound recoveries were in control. Nitroglycerin was not detected. Therefore, corrective action is not necessary.
- No other anomalies were noted.

Client: E.I. Dupont De Nemours
Address: Barley Mill Plaza Building 27
City: Wilmington
State: DE
Zip Code: 19805

Project Manager: Cary Poggias
Telephone Number (Area Code)/Fax Number (0000) / (0000)
Site Contact: MARCUS DUDLEY
Carrier/Waybill Number

Date: 12/14/2004
Lab Location: STL Denver

Page 7 of 11

QUOTE: 39097

Sample I.D. Number and Description	Date	Time	Sample Type	Containers		Preservative	Condition on Receipt/Comments
				Volume	Type		
BAR-G-72790H-INFLOW	12/16/04	1620	WATER	1L	AMBER	None	Strong sulfur smell
BAR-G-72790H-INFLOW	12/16/04	1625	WATER	40mL	VIAL	1:1 HCL	during purge
BAR-G-72790H-INFLOW-MS	12/16/04	1615	WATER	1L	AMBER	None	Sampling
BAR-G-72790H-INFLOW-MS	12/16/04	1630	WATER	40mL	VIAL	1:1 HCL	
BAR-G-72790H-INFLOW-MED	12/16/04	1620	WATER	1L	AMBER	None	
BAR-G-72790H-INFLOW-MSD	12/16/04	1625	WATER	40mL	VIAL	1:1 HCL	
BAR-G-72790H-EFFLUENT	12/16/04	1630	WATER	1L	AMBER	None	

Analysis: E M Y P A 2 2 2 1 1 L L Y X Y X X X X

Special Instructions: Protocol C
Resident Wells 12/04

Possible Hazard Identification:
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Turn Around Time Required
 Normal
 Rush
 Other

QC Level: I. II. III.

Sample Disposal:
 Return To Client
 Disposal By Lab
 Archive For _____ Months

Project Specific Requirements (Specify):

1. Relinquished By: [Signature]	Date: 12/16/04	Time: 1345
2. Relinquished By: [Signature]	Date: 12/17/04	Time: 1000
3. Relinquished By: [Signature]	Date: [Blank]	Time: [Blank]

1. Received By: [Signature] Date: 12/15/04 Time: 1300
 2. Received By: [Signature] Date: 12/18/04 Time: 1000
 3. Received By: [Signature] Date: [Blank] Time: [Blank]

Comments:

DISTRIBUTION: WHITE - Stays with the Sample. CANARY - Returned to Client with Report. PINK - Field Copy

STL4149 (1202)

CHAIN OF CUSTODY NUMBER

SEVERN TREAT

Severn Trent Laboratories, Inc.

STL

018857

Client E.I. Dugant De Neours		Project Manager Cary Pooler		Date 12/14/2004
Address Berley Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (800) / (800)		Lab Location STL Denver
City Wilmington	State DE	Zip Code 19805	Site Contact MARCUS DUDLEY	Analysis
Project Number/Name BAR-V-TBLX1			Carrier/Waybill Number	
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # : 7035-507355-772000/LRID-65011				

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	QUOTE: 39097
				Volume	Type	No.			
BAR-V-TBLX1	12/14/04	1630	WATER	40ML	VIAL	3	1:1 HCL		

Special Instructions **Protocol C** Resident Wells 12/04

Possible Hazard Identification				Sample Disposal					
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For	Months		
Turn Around Time Required									
<input type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Other	QC Level						
1. Relinquished By			Date	Time	1. Received By			Date	Time
[Signature]			12/14/04	1345	[Signature]			12/15/04	1300
2. Relinquished By			Date	Time	2. Received By			Date	Time
[Signature]			12/14/04	1600	[Signature]			12/18/04	1800
3. Relinquished By			Date	Time	3. Received By			Date	Time

(A fee may be assessed if samples are retained longer than 3 months)

Client: **E. I. Dupont De Nemours**
 Address: **Barley Mill Plaza Building 27**
 City: **Wilmington** State: **DE** Zip Code: **19805**
 Project Manager: **Cary Popler**
 Telephone Number (Area Code)/Fax Number: **(303) / (303)**
 Site Contact: **MARCUS HUDLEY**
 Carrier/Waybill Number: **BAR**
 Contract/Purchase Order/Quote Number: **CONTRACT / PURCHASE ORDER #: 7035-507355-772000/LBYD-65011**
 Date: **12/16/04** Time: **1540** Sample Type: **WATER** Volume: **1L** Type: **AMBER** No.: **2**
 Date: **12/14/2004** Lab Location: **STL Denver**
 Project Specific Requirements (Specify):

Sample I.D. Number and Description	Date	Time	Sample Type	Volume	Type	No.	Preservative	Condition on Receipt/Comments
BAR-6-72730H-INFLOW	12/16/04	1540	WATER	1L	AMBER	2	NONE	QUOTE: 39097

Special Instructions: **Protocol C Resident Wells 12/04**

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For
 Turn Around Time Required: 1. II. III. Return To Client Months (A fee may be assessed if samples are retained longer than 3 months)

OC Level: I. II. III. Project Specific Requirements (Specify)

1. Relinquished By: **[Signature]** Date: **12/14/04** Time: **1345**
 2. Relinquished By: **[Signature]** Date: **12/17/04** Time: **1000**
 3. Relinquished By: **[Signature]** Date: **12/18/04** Time: **1000**
 4. Relinquished By: **[Signature]** Date: **12/18/04** Time: **1300**

Comments:

STL4149 (1202)

CHAIN OF CUSTODY NUMBER

SEVERN
TRENT
STL

018848

Severn Trent Laboratories, Inc.

Client: **E.I. Dupont De Nemours** Date: **12/14/2004** Page **2** of **11**

Address: **Earley Mill Plaza Building 27** Telephone Number (Area Code)/Fax Number: **(000) / (000)** Lab Location: **STL Denver**

City: **Wilmington** State: **DE** Zip Code: **19805** Site Contact: **MARCUS DUDLEY**

Project Number/Name: **BAR** Carrier/Waybill Number:

Contract/Purchase Order/Quote Number: **7035-507355-772000/ALP10-65011** QUOTE: 39097

Sample I.D. Number and Description	Date	Time	Sample Type	Volume	Containers Type No.	Preservative	Condition on Receipt/Comments	EM	Analysis
BAR-B-30380N-INFLOW	12/16/04	16:30	WATER	1L	AMBER 2	None		X	
								1	
								L	
								Y	

Special Instructions: **Proton 1 C Resident Wells 12/04**

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown

Turn Around Time Required: Normal Rush Other

Sample Disposal: Return To Client Dispose By Lab Archive For Months

Project Specific Requirements (Specify):

1. Relinquished By: *Marcus Dudley* Date: **12/14/04** Time: **16:30**

2. Relinquished By: *Marcus Dudley* Date: **12/17/04** Time: **1000**

3. Relinquished By: *Marcus Dudley* Date: **12/18/04** Time: **1300**

Comments:

STL4149 (1202)

STL Denver

Client E.I. Dupont De Nemours	Project Manager Cary Popler	Date 12/14/2004
Address Bayley Mill Plaza Building 27	Telephone Number (Area Code)/Fax Number (0000) / (0000)	Page 9 of 11
City Wilmington	Site Contact MARCUS DUDLEY	Lab Location STL Denver
State DE	Carrier/Voybill Number BAR	Analysis
Zip Code 19805		
Project Number/Name BAR		

Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # : 7035-507355-772000/LBIO-65011	QUOTE: 39097	Sample I.D. Number and Description BAR-B-73300BC-INFLOW	Date	Time	Sample Type WATER	Volume IL	Containers		Preservative None	Condition on Receipt/Comments Not Sampled
							Type AMBER	No. 2		

Special Instructions: Protocol C Resident Wells 12/04

Possible Hazard Identification

Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown

Normal
 Rush
 Other

QC Level: I. II. III.

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months

(A fee may be assessed if samples are retained longer than 3 months)

Project Specific Requirements (Specify)

1. Relinquished By	<i>[Signature]</i>	Date	12/14/04	Time	1345
2. Relinquished By	<i>[Signature]</i>	Date	12/17/04	Time	1000
3. Relinquished By	<i>[Signature]</i>	Date		Time	

1. Received By: *[Signature]* Date: 12/15/04 Time: 1300
 2. Received By: *[Signature]* Date: 12/18/04 Time: 1600
 3. Received By: _____ Date: _____ Time: _____

Comments