

Analytical Report Cover Page	1
Case Narrative	2
Methods Summary	3
Sample Summary	4
Shipping and Receiving Documents	5
Data Summary Package.....	9
GC/MS Semivolatile Summary	10
Metals Summary	24
General Chemistry Summary	35
GC/MS Semivolatile Data	1001
QC Summary.....	1002
Sample Data.....	1012
Calibration Data.....	1029
QC Data	1065
Miscellaneous.....	1092
Metals Data.....	2001
Results	2003
Raw Data.....	2029
General Chemistry Data.....	3001

SEVERN

TRENT

SERVICES

STL Pittsburgh

450 William Pitt Way
Pittsburgh, PA 15238-1330

Tel: 412 820 8380

Fax: 412 820 2080

www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. CUMMINGS RITER

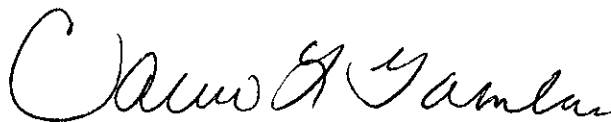
CummingsRiter-Viacom-Horsehead

Lot #: C0J240227

Bruce Geno/Bill Smith

Cummings-Riter Consultants Inc

SEVERN TRENT LABORATORIES, INC.



Carrie L. Gamber
Project Manager

November 16, 2000

STL Pittsburgh is a part of Severn Trent Laboratories, Inc.

CASE NARRATIVE

CUMMINGS RITER
Cummings Riter-Viacom-Horsehead

STL Lot # C0J240227

Sample Receiving:

STL Pittsburgh received a sample for analysis on October 24, 2000. The cooler was within the proper temperature range.

GC/MS Semivolatiles:

Sample PXS-21 had 2-fluorophenol outside control limits.

Metals:

There were no problems associated with the analysis.

General Chemistry:

There were no problems associated with the analysis.

METHODS SUMMARY

C0J240227

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
CLP Semi-Volatile Organic Compounds (OLM04.2)	OCLP OLM04.2	
Inductively Coupled Plasma	ICLP ILM04.0	ICLP ILM04.0
Percent Moisture Determination Procedure	ICLP ILM04.0	ICLP ILM04.0

References:

- ICLP USEPA Contract Laboratory Program Statement of Work for Inorganics Analysis, Multi-Media, Multi-Concentration.
- OCLP USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration.

SAMPLE SUMMARY

C0J240227

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DNNGD	001	PXS-21	10/23/00	14:20
DNNGF	002	PXS-22	10/23/00	14:30

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.

**SEVERN
TRENT
SERVICES**

Severn Trent Laboratories, Inc.

**Chain of
Custody Record**

STL-4124 (0700)
 Client: **Cummings Biter**
 Address: **331 Hammer Rd**
 City: **Monroeville**
 State: **PA** Zip Code: **15146**
 Project Name and Location (State): **Horseshoe DAF Horseheads NY**
 Contract/Purchase Order/Quote No.:
 Project Manager: **Bill Smith**
 Telephone Number (Area Code)/Fax Number: **(412) 373-5240 / (412) 373-5242**
 Site Contact: **Bruce Gene**
 Carrier/Waybill Number: **Custody Seal No: 129628**
 Lab Contact: **Carrie Gember**
 Date: **10/23/00** Chain of Custody Number: **001018**
 Lab Number: Page: **1** of **1**

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Containers & Preservatives															
			Air	Amnony	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH					
PXS-21	10/23/00	1420			X													
PXS-22	10/23/00	1430			X													

Sample Disposal
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

1. Relinquished By **Bill Smith** Date **10/23/00** Time **1518**
 2. Relinquished By _____ Date _____ Time _____
 3. Relinquished By _____ Date _____ Time _____

1. Received By **Fred DeR...** Date **10/23/00** Time **1518**
 2. Received By _____ Date **10/24/00** Time **0930**
 3. Received By _____ Date _____ Time _____

Comments

Cooler Receipt Form

STL Pittsburgh

Client: Cunning Ruffen

Project: _____

Quote: _____

Cooler Rec'd & Opened for Temp. Check on: 6/24/00

Coolers Opened and Unpacked on: 10/24/00

By: [Signature]
(Signature)

STL Pittsburgh Lot Number: 00 + 2402227

Yes No

- 1. Were custody seals on the outside of the cooler? _____ Yes No
If YES, how many and where? Quantity 1 Location 1 ft
- Were signatures and date correct? _____ Yes No
- 2. Were custody papers included inside the cooler? _____ Yes No
- 3. Were custody papers properly filled out (ink, signed, match labels)? _____ Yes No
- 4. Did you sign the custody papers in the appropriate place? _____ Yes No
- 5. Was shippers packing slip attached to this form? _____ Yes No
- 6. Were packing materials used? _____ Yes No
If YES, what type? Bubble
- 7. Were the samples chilled? (Record temperatures on reverse side.) _____ Yes No
- 8. Were the samples appropriately preserved? _____ Yes No
- 9. Were all bottles sealed in separate plastic bags? _____ Yes No
- 10. Did all bottles arrive in good condition (unbroken)? _____ Yes No
- 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ Yes No
- 12. Did all bottle labels and/or tags agree with custody papers? _____ Yes No
- 13. Were correct bottles used for tests indicated? _____ Yes No
- 14. Were all VOA vials checked for the presence of air bubbles? _____ Yes No
- 15. Was a sufficient amount of sample sent in each bottle? _____ Yes No
- 16. Samples received by: FEDEX UPS CLIENT DROP-OFF OTHER AIRBORNE

Explain any discrepancies: _____

Level 2 Review _____
Was contacted on _____ by _____ to resolve discrepancies.

P: Preserved
 UP: Unpreserved

Sample ID	TMET PH<2	DMET PH<2	HG PH<2	NUT(1) PH<2	CN PH ≥12	OG TPHC PH<2	PHEN PH<2	SULF PH ≥12	TOC PH<2	TOX PH<2	VOA P/UP	hdress PH<2				

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

Cooler Number	Temperature
	3

Bottle Type	Lot Number*

* Please use an asterisk if bottle lot number was covered by the label.

FedEx USA Airbill
FedEx Tracking Number
813531063374

1 From
Date 10/23/00

Sender's Name
Bruce Gano Phone 412 373-5240

Company Cummings Riter (for Vicon Inc.)

Address 339 Haystack Rd Ste 201

City Mohonville State PA ZIP 15146

2 Your Internal Billing Reference
Horseshoe Ny Remediation

3 To
Recipient's Name
Sample Receiving Phone 412 920-6380

Company Severn Trent

Address 450 William Pitt Way

City Pittsburgh State PA ZIP 15238



0200

4a Express Package Service

Delivery commitment may be later in some areas.
 FedEx Priority Overnight
 FedEx Standard Overnight
 FedEx First Overnight

FedEx 2Day*
 FedEx Express Saver*

4b Express Freight Service

FedEx 1Day Freight*
 FedEx 2Day Freight
 FedEx 3Day Freight

5 Packaging

FedEx Letter*
 FedEx Pak*
 Other Pkg.

6 Special Handling

Saturday Delivery
 Sunday Delivery
 HOLD Weekday at FedEx Location
 HOLD Saturday at FedEx Location

7 Payment

Sender
 Recipient
 Third Party
 Credit Card
 Cash/Check

Total Packages 1
Total Declared Value* \$ 23.00
Total Weight 23

8 Release Signature

Signature area with a large '360' stamp.

360

DATA SUMMARY PACKAGE

GC/MS SEMIVOLATILE SUMMARY

CUMMINGS-RITER CONSULTANTS INC

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C0J240227 001

Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00

Work Order: DNNGD1AC Date Extracted:10/25/00

Dilution factor: 1 Date Analyzed: 10/26/00

Moisture %:9.2

QC Batch: 0299576

Client Sample Id: PXS-21

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
108-95-2	Phenol	360	U
95-57-8	2-Chlorophenol	360	U
621-64-7	N-Nitrosodi-n-propylamine	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
83-32-9	Acenaphthene	360	U
100-02-7	4-Nitrophenol	910	U
121-14-2	2,4-Dinitrotoluene	360	U
87-86-5	Pentachlorophenol	910	U
129-00-0	Pyrene	65	J
56-55-3	Benzo(a)anthracene	360	U
205-99-2	Benzo(b)fluoranthene	44	J
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	42	J

CUMMINGS-RITER CONSULTANTS INC
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: C0J240227 001

Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00

Work Order: DNNGD1AH Date Extracted: 10/25/00

Dilution factor: 1 Date Analyzed: 10/26/00

Moisture %: 9.2

QC Batch: 0299576

Client Sample Id: PXS-21

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-95-2	Phenol	1250	
95-57-8	2-Chlorophenol	1250	
621-64-7	N-Nitrosodi-n-propylamine	980	
59-50-7	4-Chloro-3-methylphenol	1760	
83-32-9	Acenaphthene	1160	
100-02-7	4-Nitrophenol	2190	
121-14-2	2,4-Dinitrotoluene	1360	
87-86-5	Pentachlorophenol	2500	
129-00-0	Pyrene	1570	

CUMMINGS-RITER CONSULTANTS INC
 MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: C0J240227 001

Method: OCLP OLM04.2
 Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00

Work Order: DNNGD1AJ Date Extracted: 10/25/00

Dilution factor: 1 Date Analyzed: 10/26/00

Moisture %: 9.2

QC Batch: 0299576

Client Sample Id: PXS-21

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-95-2	Phenol	1230	Q
95-57-8	2-Chlorophenol	1220	
621-64-7	N-Nitrosodi-n-propylamine	965	
59-50-7	4-Chloro-3-methylphenol	1730	
83-32-9	Acenaphthene	1110	
100-02-7	4-Nitrophenol	2130	
121-14-2	2,4-Dinitrotoluene	1290	
87-86-5	Pentachlorophenol	2450	
129-00-0	Pyrene	1550	

CUMMINGS-RITER CONSULTANTS INC

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COJ240227 002

Method: OCLP OLM04.2

Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g

Date Received: 10/24/00

Work Order: DNNGF1AC

Date Extracted: 10/25/00

Dilution factor: 1

Date Analyzed: 10/26/00

Moisture %: 11

QC Batch: 0299576

Client Sample Id: PXS-22

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
56-55-3	Benzo (a) anthracene	98		J
205-99-2	Benzo (b) fluoranthene	140		J
50-32-8	Benzo (a) pyrene	130		J
193-39-5	Indeno (1,2,3-cd) pyrene	130		J

CUMMINGS-RITER CONSULTANTS INC
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: COJ250000 576
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00
Work Order: DNQ8E1AC Date Extracted: 10/25/00
Dilution factor: 1 Date Analyzed: 10/26/00
Moisture %: NA

QC Batch: 0299576

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
108-95-2	Phenol	1530	
95-57-8	2-Chlorophenol	1630	
621-64-7	N-Nitrosodi-n-propylamine	1270	
59-50-7	4-Chloro-3-methylphenol	1760	
83-32-9	Acenaphthene	1150	
100-02-7	4-Nitrophenol	1890	
121-14-2	2,4-Dinitrotoluene	1290	
87-86-5	Pentachlorophenol	1970	
129-00-0	Pyrene	1310	

OCLP OLM04.2 SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT

QESSDG:

Lot #: COJ240227

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	SRG07	SRG08	TOT OUT
01	PXS-21	32	39	66	34	24 *	61	34	29	01
02	PXS-22	32	38	61	33	25	54	34	29	00
03	METHOD BLK. DNQ8E1AA	72	70	83	74	68	81	82	74	00
04	LCS DNQ8E1AC	62	61	76	62	58	71	68	62	00
05	PXS-21 D	46	53	80	47	36	76	48	43	00
06	PXS-21 S	48	55	82	48	37	78	50	44	00

<u>SURROGATES</u>		<u>QC LIMITS</u>
SRG01	= Nitrobenzene-d5	(23-120)
SRG02	= 2-Fluorobiphenyl	(30-115)
SRG03	= Terphenyl-d14	(18-137)
SRG04	= Phenol-d5	(24-113)
SRG05	= 2-Fluorophenol	(25-121)
SRG06	= 2,4,6-Tribromophenol	(19-122)
SRG07	= 2-Chlorophenol-d4	(20-130)
SRG08	= 1,2-Dichlorobenzene-d4	(20-130)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

OCLP OLM04.2 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT

SDG No:

Lot #: COJ250000

WO #: DNQ8E1AC

BATCH: 0299576

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Phenol	2500	1530	61	26- 90	
2-Chlorophenol	2500	1630	65	25- 102	
N-Nitrosodi-n-propylamine	1670	1270	76	41- 126	
4-Chloro-3-methylphenol	2500	1760	70	26- 103	
Acenaphthene	1670	1150	69	31- 137	
4-Nitrophenol	2500	1890	76	11- 114	
2,4-Dinitrotoluene	1670	1290	77	28- 89	
Pentachlorophenol	2500	1970	79	17- 109	
Pyrene	1670	1310	79	35- 142	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT

SDG No:

Matrix Spike ID: PXS-21

Level: (low/med) LOW

Lot #: C0J240227

WO #: DNNGD1AH

BATCH: 0299576

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Phenol	2750	ND	1250	45	26 - 90	
2-Chlorophenol	2750	ND	1250	45	25 - 102	
N-Nitrosodi-n-propylamine	1840	ND	980	53	41 - 126	
4-Chloro-3-methylphenol	2750	ND	1760	64	26 - 103	
Acenaphthene	1840	ND	1160	63	31 - 137	
4-Nitrophenol	2750	ND	2190	79	11 - 114	
2,4-Dinitrotoluene	1840	ND	1360	74	28 - 89	
Pentachlorophenol	2750	ND	2500	91	17 - 109	
Pyrene	1840	65	1570	82	35 - 142	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT

SDG No:

Matrix Spike ID: PXS-21

Level: (low/med) LOW

Lot #: C0J240227

WO #: DNNGD1AJ

BATCH: 0299576

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Phenol	2750	1230	44	1.7	35	26 - 90	
2-Chlorophenol	2750	1220	44	2.4	50	25 - 102	
N-Nitrosodi-n-propylamine	1840	965	53	1.5	38	41 - 126	
4-Chloro-3-methylphenol	2750	1730	63	1.7	33	26 - 103	
Acenaphthene	1840	1110	61	3.9	19	31 - 137	
4-Nitrophenol	2750	2130	77	2.8	50	11 - 114	
2,4-Dinitrotoluene	1840	1290	70	5.1	47	28 - 89	
Pentachlorophenol	2750	2450	89	1.9	47	17 - 109	
Pyrene	1840	1550	81	1.7	36	35 - 142	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits

Spike Recovery: 0 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DNQ8E1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D1026003.

Lot Number: C0J240227

Date Analyzed: 10/26/00

Time Analyzed: 15:40

Matrix: SOLID

Date Extracted:10/25/00

GC Column: HP5MS ID: .25

Extraction Method:

Instrument ID: 721

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PXS-21	DNNGD1AC	D1026005.	10/26/00	16:43
02	PXS-21	DNNGD1AH S	D1026006.	10/26/00	17:15
03	PXS-21	DNNGD1AJ D	D1026007.	10/26/00	17:47
04	PXS-22	DNNGF1AC	D1026008.	10/26/00	18:18
05	CHECK SAMPLE	DNQ8E1AC C	D1026004.	10/26/00	16:11
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

CUMMINGS-RITER CONSULTANTS INC
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: C0J250000 576

Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00

Work Order: DNQ8E1AA Date Extracted: 10/25/00

Dilution factor: 1 Date Analyzed: 10/26/00

Moisture %: NA

QC Batch: 0299576

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
56-55-3	Benzo (a) anthracene	330		U
205-99-2	Benzo (b) fluoranthene	330		U
50-32-8	Benzo (a) pyrene	330		U
193-39-5	Indeno (1, 2, 3-cd) pyrene	330		U

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH	Contract:
Lab Code: STL PIT Case No.:	SAS No.: SDG No.: C0J240227
EPA Sample No. (SSTD050##): SSTD50	Date Analyzed: 10/26/00
Lab File ID (Standard): D1026CC3	Time Analyzed: 1507
Instrument ID: 721	GC Column: ID:0.25 (mm)

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	131693	4.56	513728	5.78	255228	8.33
UPPER LIMIT	263386	5.06	1027456	6.28	510456	8.83
LOWER LIMIT	65847	4.06	256864	5.28	127614	7.83
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	140024	4.56	571749	5.78	296023	8.33
02 LCS	142188	4.57	586371	5.78	304544	8.34
03 PXS-21	143683	4.56	569804	5.78	289777	8.33
04 PXS-21MS	148318	4.57	591312	5.78	296880	8.34
05 PXS-21MSD	151095	4.57	609125	5.78	304297	8.33
06 PXS-22	162133	4.56	632945	5.78	312863	8.33
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

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

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

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:
 Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J240227
 EPA Sample No. (SSTD050##): SSTD50 Date Analyzed: 10/26/00
 Lab File ID (Standard): D1026CC3 Time Analyzed: 1507
 Instrument ID: 721 GC Column: ID:0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	452256	11.21	443796	17.05	405513	20.02
UPPER LIMIT	904512	11.71	887592	17.55	811026	20.52
LOWER LIMIT	226128	10.71	221898	16.55	202757	19.52
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	528840	11.21	540617	17.05	484161	20.01
02 LCS	537849	11.21	541888	17.04	493418	20.02
03 PXS-21	503112	11.20	498162	17.05	439910	20.02
04 PXS-21MS	511058	11.21	498157	17.05	437310	20.02
05 PXS-21MSD	512115	11.21	497095	17.05	440865	20.02
06 PXS-22	533839	11.21	507835	17.05	456366	20.02
07						
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19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

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

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

METALS SUMMARY

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DNNGD Client ID: PXS-21
Matrix: Soil Units: mg/kg Prep Date: 10/25/00 Prep Batch: 0299184
Weight: 1.00 Volume: 200 Percent Moisture: 9.24

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.46	2.2	6.4		1	ICPST	10/27/00	19:45

Comments: Lot #: C0J240227 Sample #: 1 COLOR: PRE-BROWN POST-BROWN TEXTURE: PRE-MEDIUM POST-MEDIUM ARTIFACTS: STONES, PLANT MATERIAL

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DNNGF Client ID: PXS-22
Matrix: Soil Units: mg/kg Prep Date: 10/25/00 Prep Batch: 0299184
Weight: 1.00 Volume: 200 Percent Moisture: 11.02

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.47	2.3	6.6		1	ICPST	10/27/00	20:10

Comments: Lot #: C0J240227 Sample #: 2 COLOR: PRE-BROWN POST-BROWN TEXTURE: PRE-MEDIUM POST-MEDIUM ARTIFACTS: STONES, PLANT MATERIAL

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: T01027C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 10/27/00 3:44 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Arsenic	189.042	10	2.1	U								

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: T01027C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 10/27/00 4:05 PM		CCB2 10/27/00 4:55 PM		CCB3 10/27/00 5:36 PM		CCB4 10/27/00 6:26 PM		CCB5 10/27/00 7:04 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	10	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: T01027C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 10/27/00 7:54 PM		CCB7 10/27/00 8:31 PM		Found	Q	Found	Q	Found	Q
			Found	Q	Found	Q						
Arsenic	189.042	10	2.1	U	2.1	U						

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DNPLAB

Matrix: Soil Units: mg/kg Prep Date: 10/25/00 Prep Batch: 0299184

Weight: 1.00 Volume: 200 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.42	2.0	0.42	U	1	ICPST	10/27/00	19:37

Comments: Lot #: C0J240227

Version 4.10.2

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DNNGDS
Original Sample ID: DNNGD **Client ID:** PXS-21S
Matrix: Soil **Units:** mg/kg **Prep Date:** 10/25/00 **Prep Batch:** 0299184
Weight: 1.00 **Volume:** 200 **Percent Moisture:** 9.24

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	6.4		13.9		8.8145	84.9	1	1	ICPST	10/27/00	19:45	10/27/00	20:06

Comments: Lot #: C0J240227 Sample #: 1

Version 4.10.2

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL-Pittsburgh

Metals Data Reporting Form

4

Duplicate Sample Results

Lab Sample ID: DNNGDX **Client ID:** PXS-21X
Matrix: Soil **Units:** mg/kg **Prep Date:** 10/25/00 **Prep Batch:** 0299184
Weight: 1.00 **Volume:** 200 **Percent Moisture:** 9.24

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.46	2.2	6.8		1	ICPST	10/27/00	20:02

Comments: Lot #: C0J240227 Sample #: 1

STL-Pittsburgh

Metals Data Reporting Form

Sample Duplicate RPD Report

Duplicate Sample ID: DNNGDX

Original Sample ID: DNNGD **Client ID:** PXS-21X

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/25/00 **Prep Batch:** 0299184

Weight: 1.00 **Volume:** 200 **Percent Moisture:** 9.24

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	6.4		6.8		0.4%	1	1	ICPST	10/27/00	19:45	10/27/00	20:02

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DNPLAC
Matrix: Soil Units: mg/kg Prep Date: 10/25/00 Prep Batch: 0299184
Weight: 1.00 Volume: 200 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	136	135	98.9		75-125	1	ICPST	10/27/00	19:41

Comments: Lot #: C0J240227

Version 4.10.2

U Result is less than the IDL
B Result is between IDL and RL

Form 7 Equivalent

GENERAL CHEMISTRY SUMMARY

CUMMINGS-RITER CONSULTANTS INC

Client Sample ID: PXS-21

General Chemistry

Lot-Sample #...: C0J240227-001 Work Order #...: DNNGD Matrix.....: SOLID
Date Sampled...: 10/23/00 Date Received...: 10/24/00
% Moisture.....: 9.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	9.2		%	ICLP ILM04.0	10/25-10/26/00	0299317

Dilution Factor: 1 MS Run #.....: 0299128

CUMMINGS-RITER CONSULTANTS INC

Client Sample ID: PXS-22

General Chemistry

Lot-Sample #...: C0J240227-002 Work Order #...: DNNGF Matrix.....: SOLID
Date Sampled...: 10/23/00 Date Received...: 10/24/00
% Moisture.....: 11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	11.0		%	ICLP ILM04.0	10/25-10/26/00	0299317
		Dilution Factor: 1		MS Run #.....: 0299128		

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0J240227

Work Order #...: DNNGD-SMP
DNNGD-DUP

Matrix.....: SOLID

Date Sampled...: 10/23/00

Date Received...: 10/24/00

% Moisture.....: 9.2

<u>PARAM RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	10.5	%	12	(0-0.0)	ICLP ILM04.0	10/25-10/26/00	0299317

SD Lot-Sample #: C0J240227-001

Dilution Factor: 1

Prep Date.....: 0299128

Analysis Date...:

Prep Batch #...:

GC/MS SEMIVOLATILE DATA

**GC/MS SEMIVOLATILE
QC SUMMARY**

OCLEP OLM04.2 SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT

QESSDG:

Lot #: C0J240227

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	SRG07	SRG08	TOT OUT
01	PXS-21	32	39	66	34	24 *	61	34	29	01
02	PXS-22	32	38	61	33	25	54	34	29	00
03	METHOD BLK. DNQ8E1AA	72	70	83	74	68	81	82	74	00
04	LCS DNQ8E1AC	62	61	76	62	58	71	68	62	00
05	PXS-21 D	46	53	80	47	36	76	48	43	00
06	PXS-21 S	48	55	82	48	37	78	50	44	00

<u>SURROGATES</u>		<u>QC LIMITS</u>
SRG01	= Nitrobenzene-d5	(23-120)
SRG02	= 2-Fluorobiphenyl	(30-115)
SRG03	= Terphenyl-d14	(18-137)
SRG04	= Phenol-d5	(24-113)
SRG05	= 2-Fluorophenol	(25-121)
SRG06	= 2,4,6-Tribromophenol	(19-122)
SRG07	= 2-Chlorophenol-d4	(20-130)
SRG08	= 1,2-Dichlorobenzene-d4	(20-130)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

OCLP OLM04.2 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT

SDG No:

Lot #: COJ250000

WO #: DNQ8E1AC

BATCH: 0299576

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Phenol	2500	1530	61	26 - 90	
2-Chlorophenol	2500	1630	65	25 - 102	
N-Nitrosodi-n-propylamine	1670	1270	76	41 - 126	
4-Chloro-3-methylphenol	2500	1760	70	26 - 103	
Acenaphthene	1670	1150	69	31 - 137	
4-Nitrophenol	2500	1890	76	11 - 114	
2,4-Dinitrotoluene	1670	1290	77	28 - 89	
Pentachlorophenol	2500	1970	79	17 - 109	
Pyrene	1670	1310	79	35 - 142	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 9 outside limits

COMMENTS:

OCLP OLM04.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT

SDG No:

Matrix Spike ID: PXS-21

Level: (low/med) LOW

Lot #: C0J240227

WO #: DNNGD1AH

BATCH: 0299576

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Phenol	2750	ND	1250	45	26- 90	
2-Chlorophenol	2750	ND	1250	45	25- 102	
N-Nitrosodi-n-propylamine	1840	ND	980	53	41- 126	
4-Chloro-3-methylphenol	2750	ND	1760	64	26- 103	
Acenaphthene	1840	ND	1160	63	31- 137	
4-Nitrophenol	2750	ND	2190	79	11- 114	
2,4-Dinitrotoluene	1840	ND	1360	74	28- 89	
Pentachlorophenol	2750	ND	2500	91	17- 109	
Pyrene	1840	65	1570	82	35- 142	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 9 outside limits

COMMENTS:

OCLEP OLM04.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT

SDG No:

Matrix Spike ID: PXS-21

Level: (low/med) LOW

Lot #: C0J240227

WO #: DNNGD1AJ

BATCH: 0299576

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Phenol	2750	1230	44	1.7	35	26- 90	
2-Chlorophenol	2750	1220	44	2.4	50	25- 102	
N-Nitrosodi-n-propylamine	1840	965	53	1.5	38	41- 126	
4-Chloro-3-methylphenol	2750	1730	63	1.7	33	26- 103	
Acenaphthene	1840	1110	61	3.9	19	31- 137	
4-Nitrophenol	2750	2130	77	2.8	50	11- 114	
2,4-Dinitrotoluene	1840	1290	70	5.1	47	28- 89	
Pentachlorophenol	2750	2450	89	1.9	47	17- 109	
Pyrene	1840	1550	81	1.7	36	35- 142	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits

Spike Recovery: 0 out of 9 outside limits

COMMENTS:

OCLP OLM04.2 METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DNQ8E1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D1026003.

Lot Number: C0J240227

Date Analyzed: 10/26/00

Time Analyzed: 15:40

Matrix: SOLID

Date Extracted:10/25/00

GC Column: HP5MS ID: .25

Extraction Method:

Instrument ID: 721

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PXS-21	DNNGD1AC	D1026005.	10/26/00	16:43
02	PXS-21	DNNGD1AH S	D1026006.	10/26/00	17:15
03	PXS-21	DNNGD1AJ D	D1026007.	10/26/00	17:47
04	PXS-22	DNNGF1AC	D1026008.	10/26/00	18:18
05	CHECK SAMPLE	DNQ8E1AC C	D1026004.	10/26/00	16:11
06					
07					
08					
09					
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25					
26					
27					
28					
29					
30					

COMMENTS:

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0J240227

Lab File ID: D1024DFT

DFTPP Injection Date: 10/24/00

Instrument ID: 721

DFTPP Injection Time: 1127

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	34.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	46.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	21.6
365	Greater than 0.75% of mass 198	2.19
441	Present, but less than mass 443	14.8
442	40.0 - 110.0% of mass 198	94.1
443	15.0 - 24.0% of mass 442	17.7 (18.8)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	SSTD20	D1024CC1	10/24/00	1329
02	SSTD050	SSTD50	D1024CC2	10/24/00	1358
03	SSTD080	SSTD80	D1024CC3	10/24/00	1428
04	SSTD120	SSTD120	D1024CC4	10/24/00	1527
05	SSTD160	SSTD160	D1024CC5	10/24/00	1557
06					
07					
08					
09					
10					
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17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: COJ240227

Lab File ID: D1026DF2

DFTPP Injection Date: 10/26/00

Instrument ID: 721

DFTPP Injection Time: 1446

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	36.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	44.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	21.7
365	Greater than 0.75% of mass 198	2.19
441	Present, but less than mass 443	10.0
442	40.0 - 110.0% of mass 198	85.7
443	15.0 - 24.0% of mass 442	16.9 (19.7)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	D1026CC3	10/26/00	1507
02	INTRA-LAB BL	DNQ8E1AA	D1026003	10/26/00	1540
03	LCS	DNQ8E1AC	D1026004	10/26/00	1611
04	PXS-21	DNNGD1AC	D1026005	10/26/00	1643
05	PXS-21MS	DNNGD1AH	D1026006	10/26/00	1715
06	PXS-21MSD	DNNGD1AJ	D1026007	10/26/00	1747
07	PXS-22	DNNGF1AC	D1026008	10/26/00	1818
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0J240227

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 10/26/00

Lab File ID (Standard): D1026CC3

Time Analyzed: 1507

Instrument ID: 721

GC Column:

ID:0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	131693	4.56	513728	5.78	255228	8.33
UPPER LIMIT	263386	5.06	1027456	6.28	510456	8.83
LOWER LIMIT	65847	4.06	256864	5.28	127614	7.83
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	140024	4.56	571749	5.78	296023	8.33
02 LCS	142188	4.57	586371	5.78	304544	8.34
03 PXS-21	143683	4.56	569804	5.78	289777	8.33
04 PXS-21MS	148318	4.57	591312	5.78	296880	8.34
05 PXS-21MSD	151095	4.57	609125	5.78	304297	8.33
06 PXS-22	162133	4.56	632945	5.78	312863	8.33
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

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

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

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:
 Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J240227
 EPA Sample No. (SSTD050##): SSTD50 Date Analyzed: 10/26/00
 Lab File ID (Standard): D1026CC3 Time Analyzed: 1507
 Instrument ID: 721 GC Column: ID:0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	452256	11.21	443796	17.05	405513	20.02
UPPER LIMIT	904512	11.71	887592	17.55	811026	20.52
LOWER LIMIT	226128	10.71	221898	16.55	202757	19.52
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	528840	11.21	540617	17.05	484161	20.01
02 LCS	537849	11.21	541888	17.04	493418	20.02
03 PXS-21	503112	11.20	498162	17.05	439910	20.02
04 PXS-21MS	511058	11.21	498157	17.05	437310	20.02
05 PXS-21MSD	512115	11.21	497095	17.05	440865	20.02
06 PXS-22	533839	11.21	507835	17.05	456366	20.02
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

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

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

**GC/MS SEMIVOLATILE
SAMPLE DATA**

CUMMINGS-RITER CONSULTANTS INC

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: COJ240227 001
 Method: OCLP OLM04.2
 Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00
 Work Order: DNNGD1AC Date Extracted: 10/25/00
 Dilution factor: 1 Date Analyzed: 10/26/00
 Moisture %: 9.2

QC Batch: 0299576

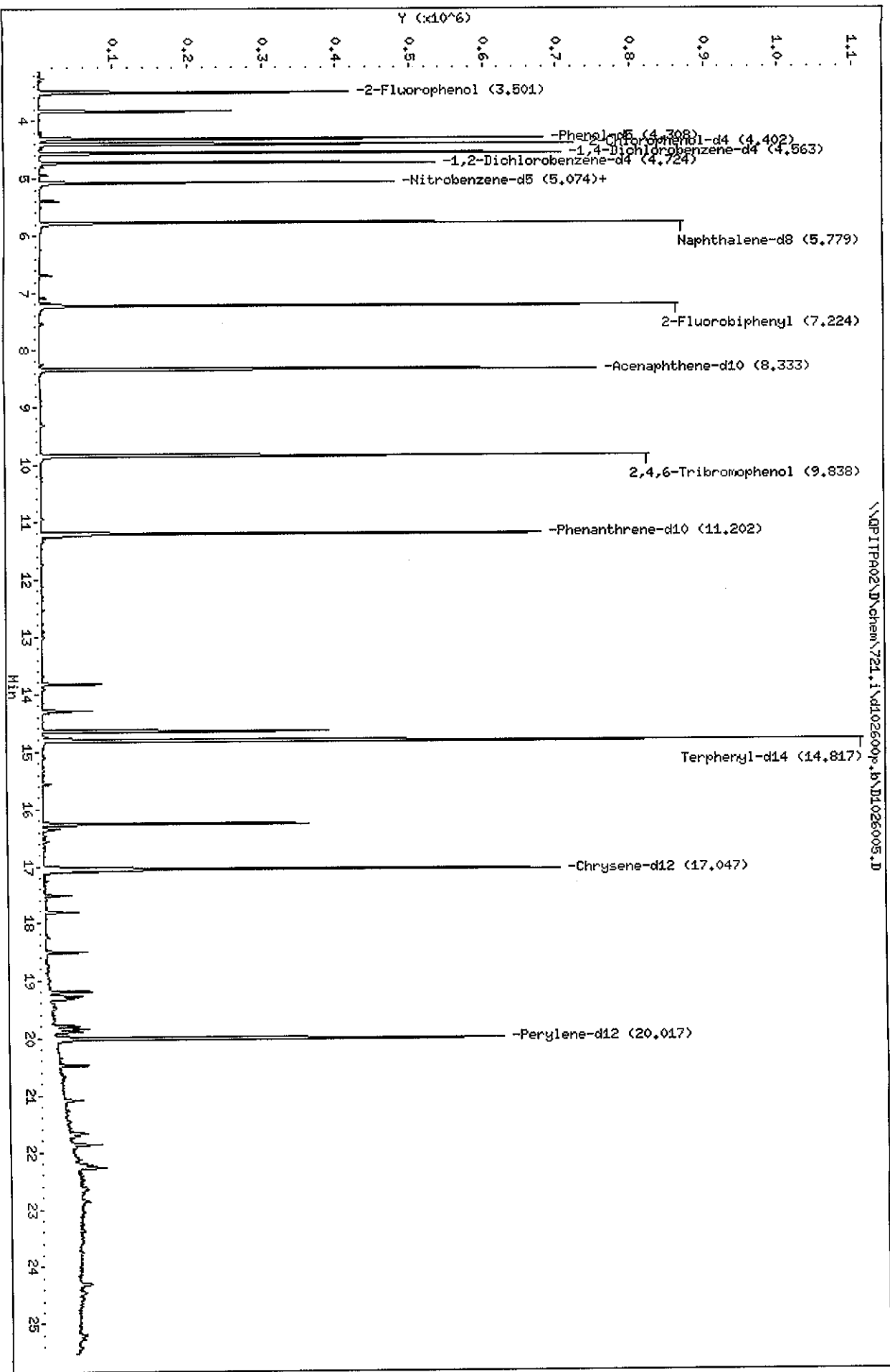
Client Sample Id: PXS-21

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-95-2	Phenol	360	U
95-57-8	2-Chlorophenol	360	U
621-64-7	N-Nitrosodi-n-propylamine	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
83-32-9	Acenaphthene	360	U
100-02-7	4-Nitrophenol	910	U
121-14-2	2,4-Dinitrotoluene	360	U
87-86-5	Pentachlorophenol	910	U
129-00-0	Pyrene	65	J
56-55-3	Benzo (a) anthracene	360	U
205-99-2	Benzo (b) fluoranthene	44	J
50-32-8	Benzo (a) pyrene	360	U
193-39-5	Indeno (1,2,3-cd) pyrene	42	J

Data File: \\NPITPA02\chem\721.i\dl02600p.b\dl026005.D
 Date: 26-OCT-2000 16:43
 Client ID: PXS-21
 Sample Info: c03240227-001 soil 10/25/00 c1p4+2
 Volume Injected (uL): 2.0
 Column phase:

Instrument: 721.i
 Operator: 001562, DLF
 Column diameter: 0.25

\\NPITPA02\chem\721.i\dl02600p.b\dl026005.D



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Semivolatiles REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102600p.b\D1026005.D
 Lab Smp Id: DNNGD1AC Client Smp ID: PXS-21
 Inj Date : 26-OCT-2000 16:43
 Operator : 001562, DLF Inst ID: 721.i
 Smp Info : c0j240227-001 soil 10/25/00 clp4.2
 Misc Info : dnnngdlac,d102600p.b,clp.m,1-4.2.sub
 Comment :
 Method : \\QPITPA02\D\chem\721.i\d102600p.b\clp.m
 Meth Date : 27-Oct-2000 08:24 ferguson Quant Type: ISTD
 Cal Date : 26-OCT-2000 15:07 Cal File: D1026CC3.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC013

*DLF
10-27-00*

Compound Sublist: 1-4.2.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.563	4.562	(1.000)	143683	40.0000	
* 2 Naphthalene-d8	136	5.779	5.779	(1.000)	569804	40.0000	
* 3 Acenaphthene-d10	164	8.332	8.332	(1.000)	289777	40.0000	
* 4 Phenanthrene-d10	188	11.201	11.208	(1.000)	503112	40.0000	
* 5 Chrysene-d12	240	17.047	17.054	(1.000)	498162	40.0000	
* 6 Perylene-d12	264	20.017	20.023	(1.000)	439910	40.0000	
191 Benzaldehyde	77	Compound Not Detected.					
7 Phenol	94	Compound Not Detected.					
8 Bis(2-chloroethyl) ether	93	Compound Not Detected.					
9 2-Chlorophenol	128	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192 Acetophenone	105	Compound Not Detected.					
15 4-Methylphenol	108	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
16 N-Nitroso-di-n-propylamine	70						
17 Hexachloroethane	117						
18 Nitrobenzene	77						
19 Isophorone	82						
20 2-Nitrophenol	139						
21 2,4-Dimethylphenol	107						
22 Bis(2-chloroethoxy)methane	93						
23 2,4-Dichlorophenol	162						
25 Naphthalene	128						
26 4-Chloroaniline	127						
193 Caprolactam	113						
27 Hexachlorobutadiene	224						
28 4-Chloro-3-Methylphenol	107						
29 2-Methylnaphthalene	142						
30 Hexachlorocyclopentadiene	236						
31 2,4,6-Trichlorophenol	196						
32 2,4,5-Trichlorophenol	196						
194 1,1'-Biphenyl	154						
33 2-Chloronaphthalene	162						
34 2-Nitroaniline	65						
35 Dimethylphthalate	163						
36 Acenaphthylene	152						
37 2,6-Dinitrotoluene	165						
38 3-Nitroaniline	138						
39 Acenaphthene	153						
40 2,4-Dinitrophenol	184						
41 4-Nitrophenol	109						
42 Dibenzofuran	168						
43 2,4-Dinitrotoluene	165						
44 Diethylphthalate	149						
45 4-Chlorophenyl-phenylether	204						
46 Fluorene	166						
47 4-Nitroaniline	138						
48 4,6-Dinitro-2-methylphenol	198						
49 N-Nitrosodiphenylamine (1)	169						
50 4-Bromophenyl-phenylether	248						
51 Hexachlorobenzene	283						
195 Atrazine	200						
53 Pentachlorophenol	265						
54 Phenanthrene	178	11.242	11.262	(1.004)	26468	2.08689	34.782(a)
55 Anthracene	178						
56 Carbazole	167						
57 Di-n-Butylphthalate	149						
58 Fluoranthene	202	13.822	13.842	(1.234)	65284	4.51495	75.249(a)
59 Pyrene	202	14.292	14.312	(0.838)	50847	3.54820	59.137(a)
60 Butylbenzylphthalate	149						
61 3,3'-Dichlorobenzidine	252						

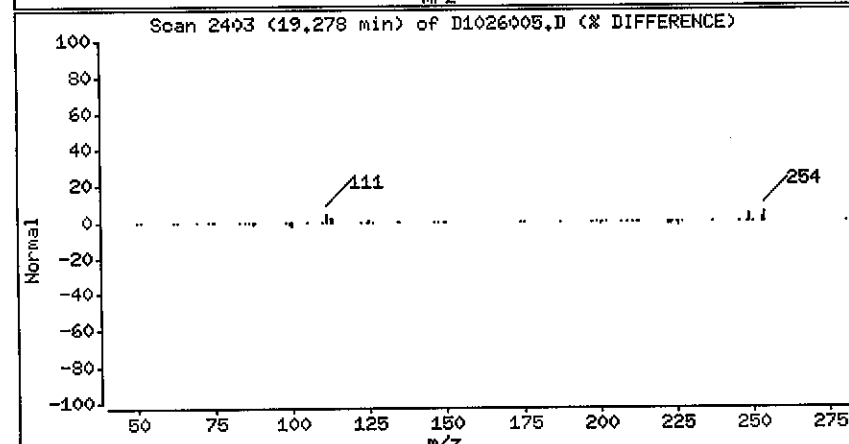
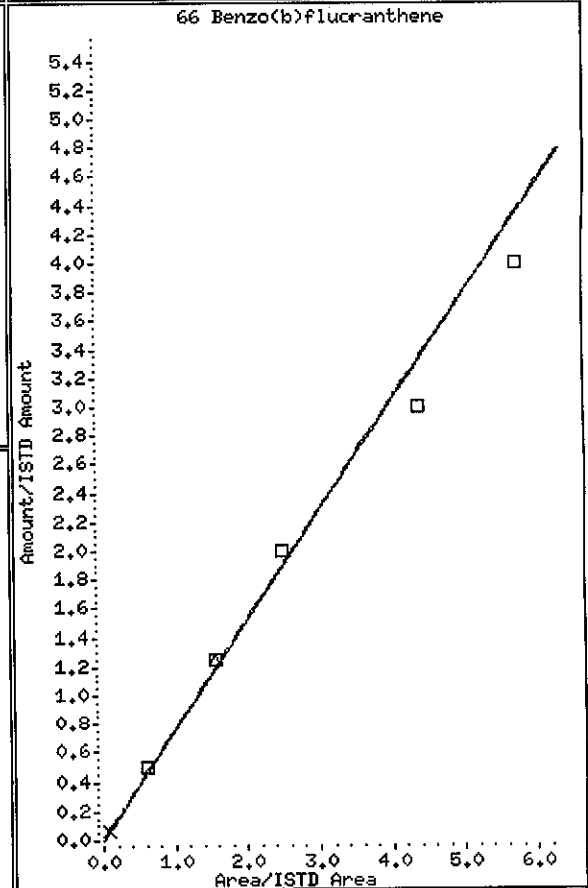
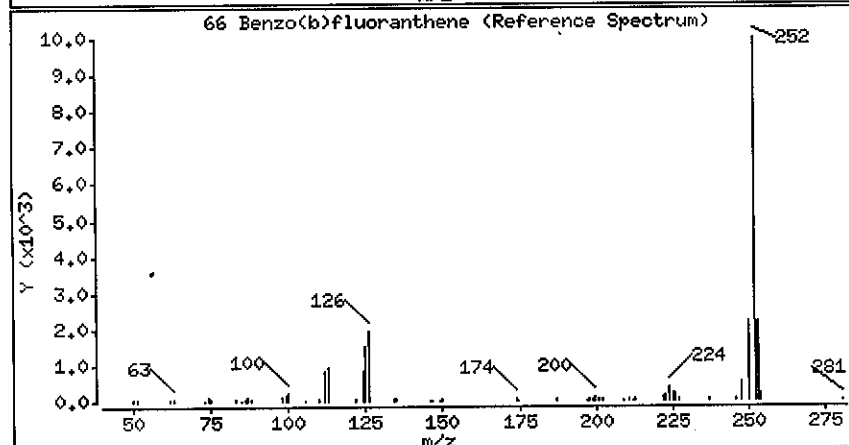
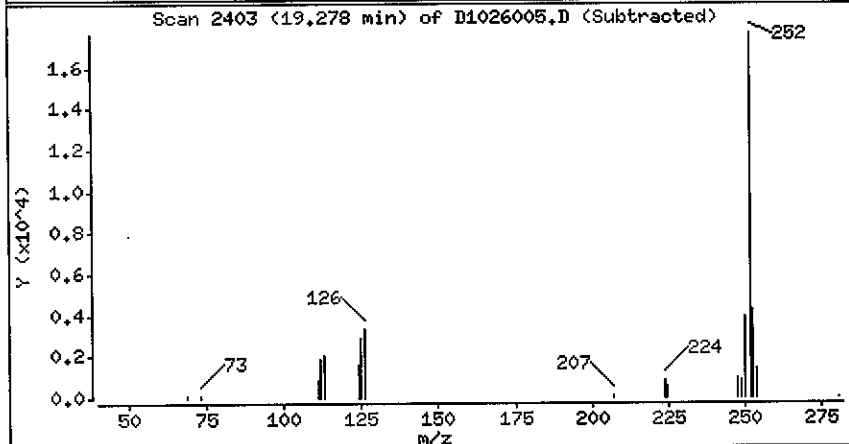
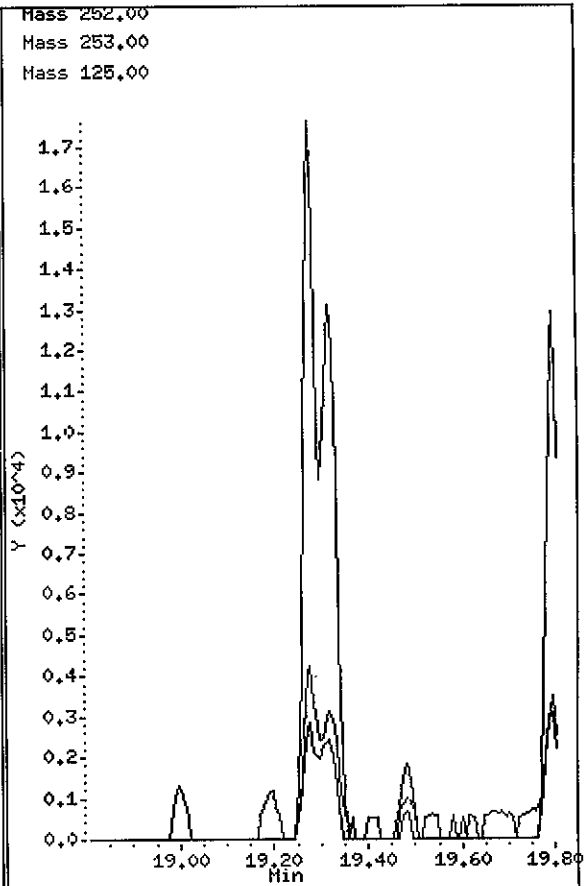
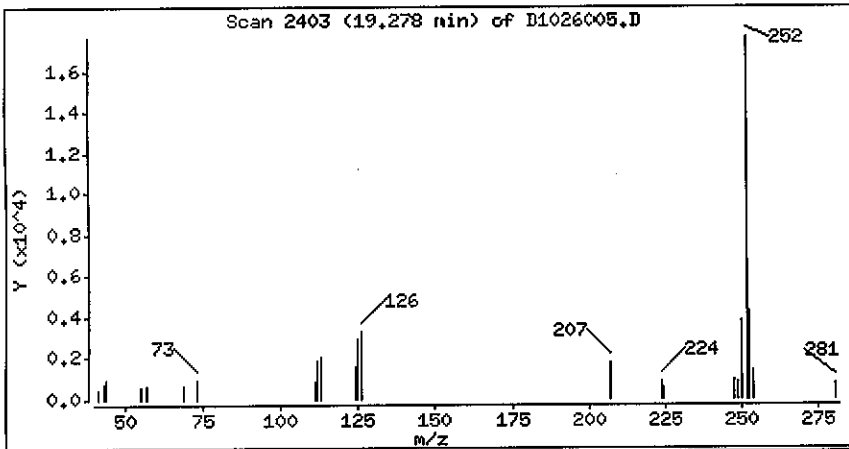
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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
62 Benzo (a) Anthracene	228				Compound Not Detected.		
63 Chrysene	228	17.087	17.114	(1.002)	30565	2.51292	41.882(a) - NA
64 bis(2-ethylhexyl) Phthalate	149				Compound Not Detected.		
65 Di-n-octylphthalate	149				Compound Not Detected.		
66 Benzo (b) fluoranthene	252	19.278	19.304	(0.963)	33065	2.41948	40.325 (aQH)
67 Benzo (k) fluoranthene	252	19.318	19.358	(0.965)	29506	2.31900	38.650(a) - NA
68 Benzo (a) pyrene	252				Compound Not Detected.		
69 Indeno (1,2,3-cd) pyrene	276	21.871	21.898	(1.093)	26618	2.26391	37.732(a)
70 Dibenz (a,h) anthracene	278				Compound Not Detected.		
71 Benzo (g,h,i) perylene	276	22.274	22.315	(1.113)	26648	2.19394	36.566(a) - NA
\$ 72 Nitrobenzene-d5	82	5.073	5.080	(0.878)	180445	32.0879	534.80
\$ 73 2-Fluorobiphenyl	172	7.223	7.230	(0.867)	399412	39.1622	652.70
\$ 74 Terphenyl-d14	244	14.823	14.816	(0.870)	801292	66.2389	1104.0
\$ 75 Phenol-d5	99	4.314	4.314	(0.946)	318113	50.7287	845.48
\$ 76 2-Fluorophenol	112	3.501	3.501	(0.767)	189969	36.5363	608.94 (R)
\$ 77 2,4,6-Tribromophenol	330	9.837	9.844	(0.878)	197202	91.0385	1517.3
\$ 78 2-Chlorophenol-d4	132	4.401	4.408	(0.965)	261264	51.0896	851.49
\$ 79 1,2-Dichlorobenzene-d4	152	4.724	4.724	(1.035)	101693	29.1647	486.08

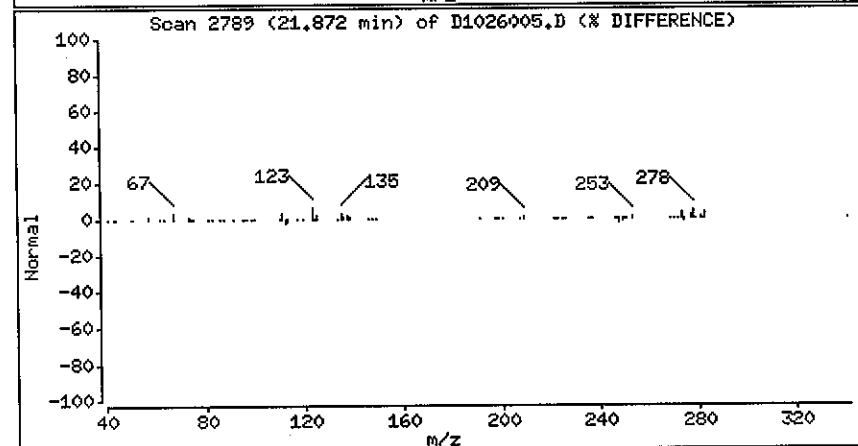
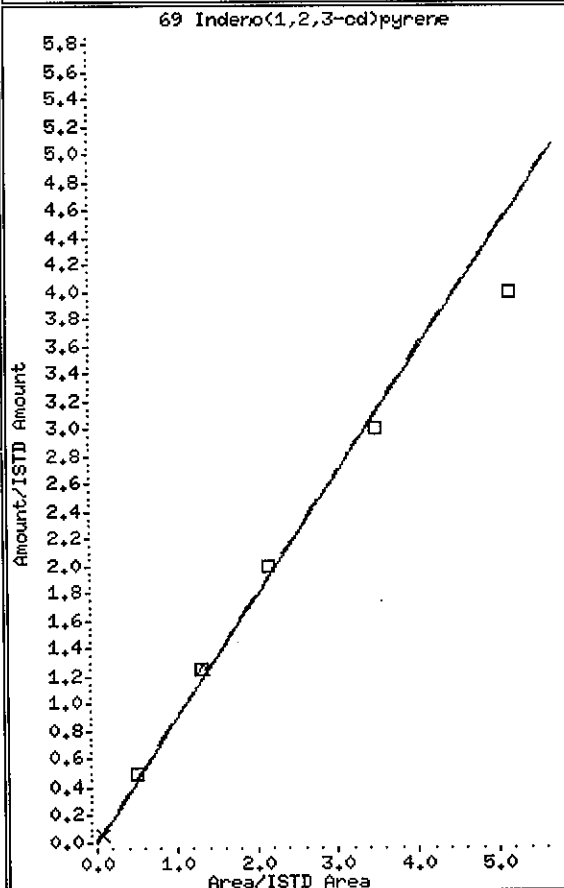
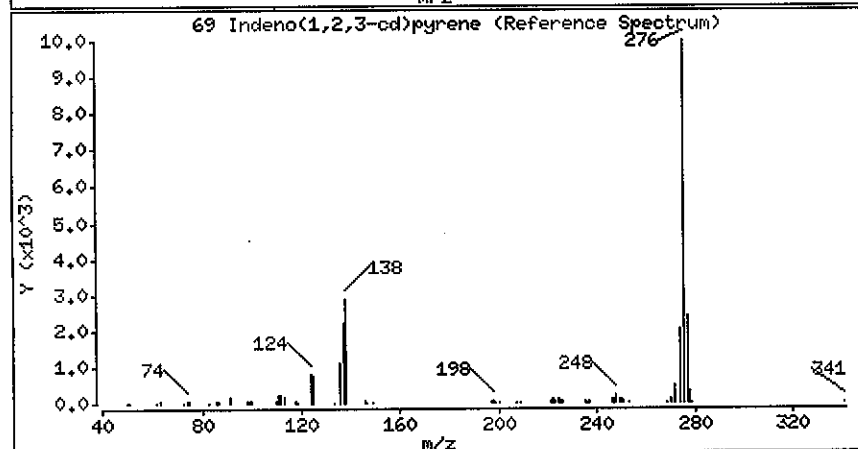
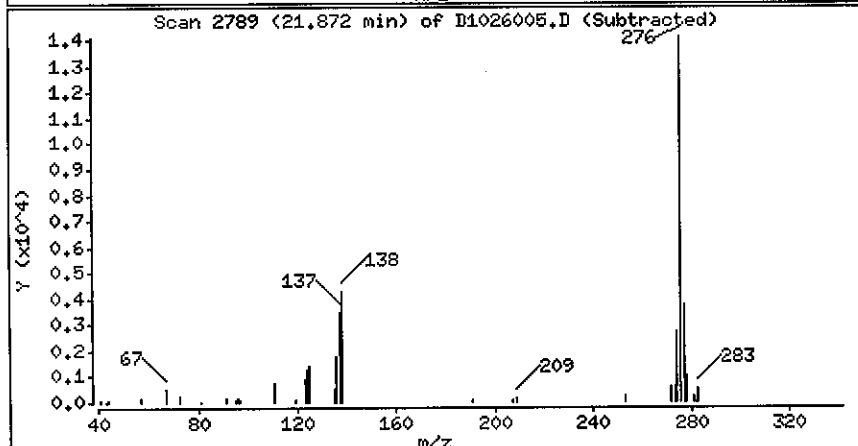
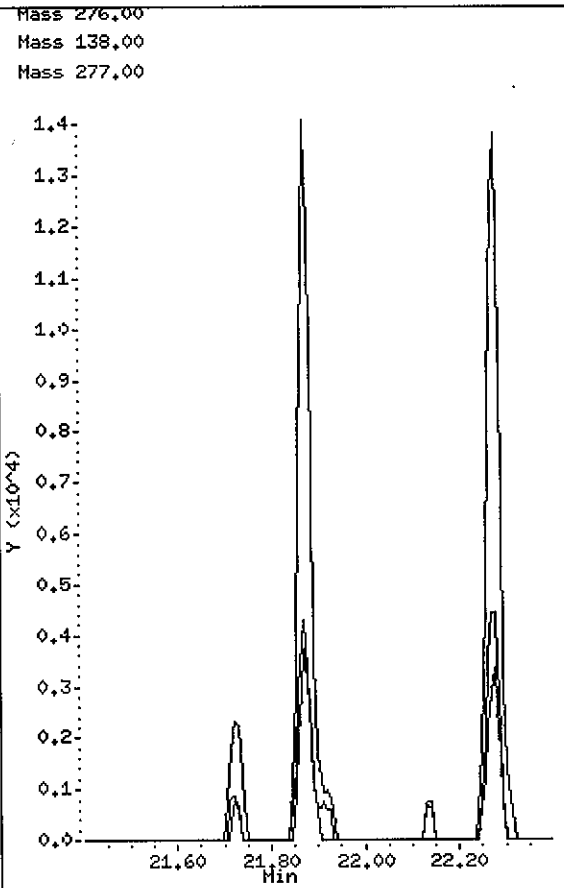
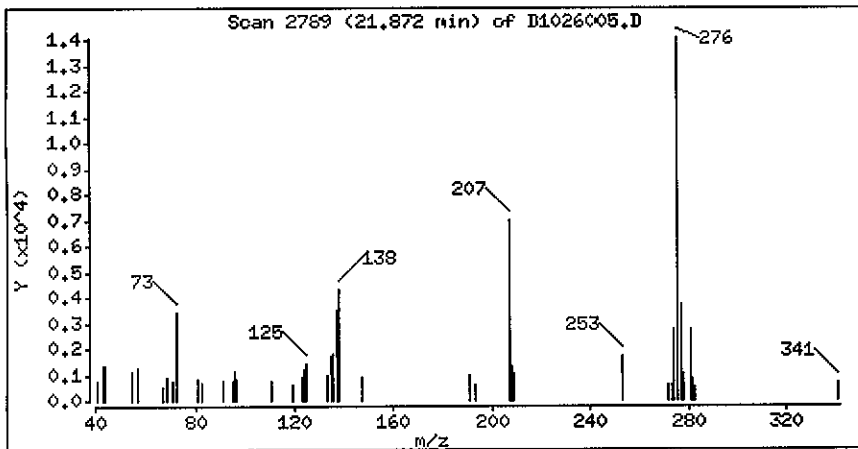
QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- H - Operator selected an alternate compound hit.

66 Benzo(b)fluoranthene



69 Indeno(1,2,3-cd)pyrene



CUMMINGS-RITER CONSULTANTS INC

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: C0J240227 002

Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00

Work Order: DNNGF1AC Date Extracted: 10/25/00

Dilution factor: 1 Date Analyzed: 10/26/00

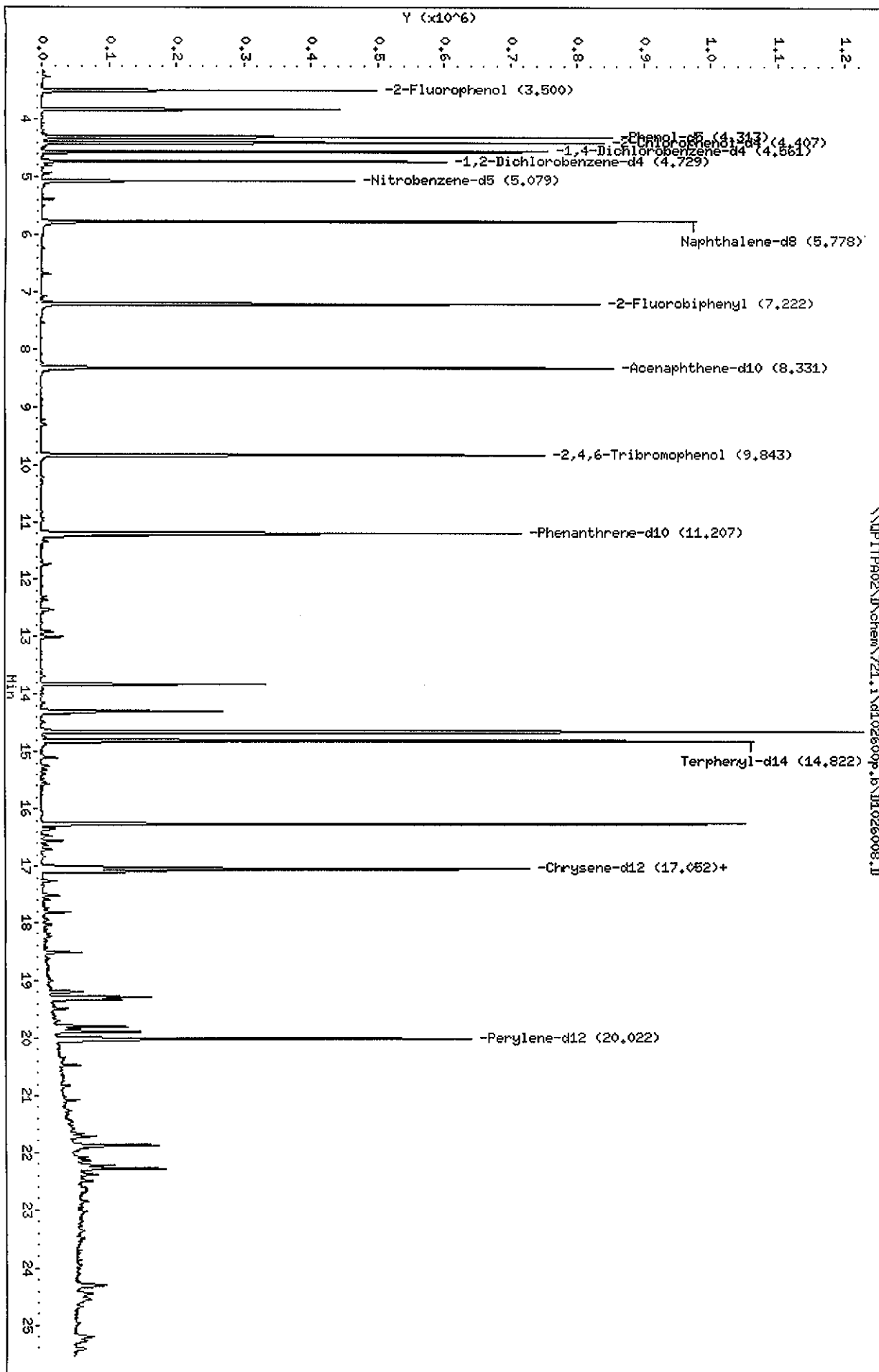
Moisture %: 11

QC Batch: 0299576

Client Sample Id: PXS-22

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
56-55-3	Benzo (a) anthracene	98		J
205-99-2	Benzo (b) fluoranthene	140		J
50-32-8	Benzo (a) pyrene	130		J
193-39-5	Indeno (1, 2, 3-cd) pyrene	130		J



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Semivolatiles REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102600p.b\D1026008.D
 Lab Smp Id: DNNGF1AC Client Smp ID: PXS-22
 Inj Date : 26-OCT-2000 18:18
 Operator : 001562, DLF Inst ID: 721.i
 Smp Info : c0j240227-002 soil 10/25/00 clp4.2
 Misc Info : dnngflac,d102600p.b,clp.m,1-4.2.sub
 Comment :
 Method : \\QPITPA02\D\chem\721.i\d102600p.b\clp.m
 Meth Date : 27-Oct-2000 08:24 ferguson Quant Type: ISTD
 Cal Date : 26-OCT-2000 15:07 Cal File: D1026CC3.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC013

WR of
10-27-00

Compound Sublist: 1-4.2.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.561	4.562	(1.000)	162133	40.0000	
* 2 Naphthalene-d8	136	5.777	5.779	(1.000)	632945	40.0000	
* 3 Acenaphthene-d10	164	8.330	8.332	(1.000)	312863	40.0000	
* 4 Phenanthrene-d10	188	11.206	11.208	(1.000)	533839	40.0000	
* 5 Chrysene-d12	240	17.052	17.054	(1.000)	507835	40.0000	
* 6 Perylene-d12	264	20.022	20.023	(1.000)	456366	40.0000	
191 Benzaldehyde	77				Compound Not Detected.		
7 Phenol	94				Compound Not Detected.		
8 Bis(2-chloroethyl) ether	93				Compound Not Detected.		
9 2-Chlorophenol	128				Compound Not Detected.		
13 2-Methylphenol	108				Compound Not Detected.		
14 2,2'-oxybis(1-Chloropropane)	45				Compound Not Detected.		
192 Acetophenone	105				Compound Not Detected.		
15 4-Methylphenol	108				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
16 N-Nitroso-di-n-propylamine	70						
17 Hexachloroethane	117						
18 Nitrobenzene	77						
19 Isophorone	82						
20 2-Nitrophenol	139						
21 2,4-Dimethylphenol	107						
22 Bis(2-chloroethoxy)methane	93						
23 2,4-Dichlorophenol	162						
25 Naphthalene	128						
26 4-Chloroaniline	127						
193 Caprolactam	113						
27 Hexachlorobutadiene	224						
28 4-Chloro-3-Methylphenol	107						
29 2-Methylnaphthalene	142						
30 Hexachlorocyclopentadiene	236						
31 2,4,6-Trichlorophenol	196						
32 2,4,5-Trichlorophenol	196						
194 1,1'-Biphenyl	154						
33 2-Chloronaphthalene	162						
34 2-Nitroaniline	65						
35 Dimethylphthalate	163						
36 Acenaphthylene	152						
37 2,6-Dinitrotoluene	165						
38 3-Nitroaniline	138						
39 Acenaphthene	153						
40 2,4-Dinitrophenol	184						
41 4-Nitrophenol	109						
42 Dibenzofuran	168						
43 2,4-Dinitrotoluene	165						
44 Diethylphthalate	149						
45 4-Chlorophenyl-phenylether	204						
46 Fluorene	166						
47 4-Nitroaniline	138						
48 4,6-Dinitro-2-methylphenol	198						
49 N-Nitrosodiphenylamine (1)	169						
50 4-Bromophenyl-phenylether	248						
51 Hexachlorobenzene	283						
195 Atrazine	200						
53 Pentachlorophenol	265						
54 Phenanthrene	178	11.246	11.262	(1.004)	98254	7.30102	121.68 (a)
55 Anthracene	178						
56 Carbazole	167						
57 Di-n-Butylphthalate	149						
58 Fluoranthene	202	13.827	13.842	(1.234)	246992	16.0984	268.31 (a)
59 Pyrene	202	14.297	14.312	(0.838)	195183	13.3608	222.68 (a)
60 Butylbenzylphthalate	149						
61 3,3'-Dichlorobenzidine	252						

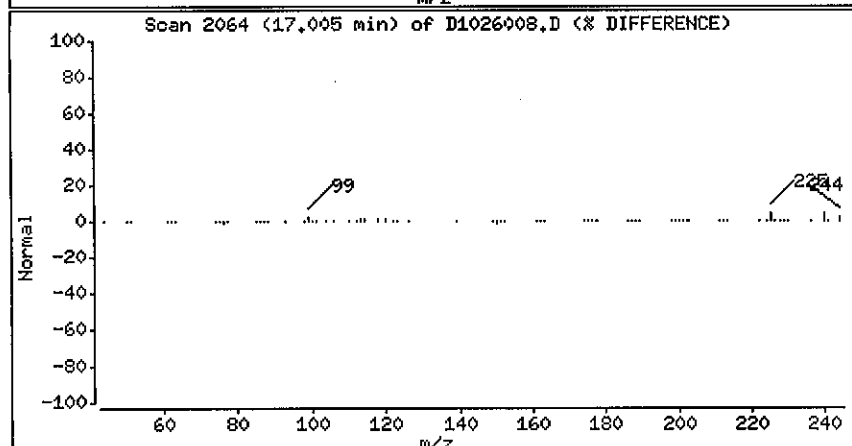
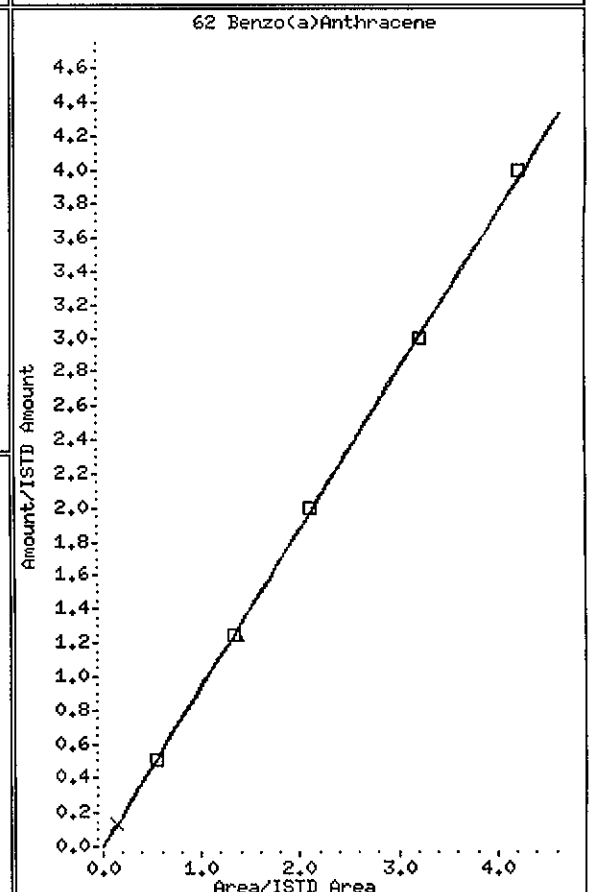
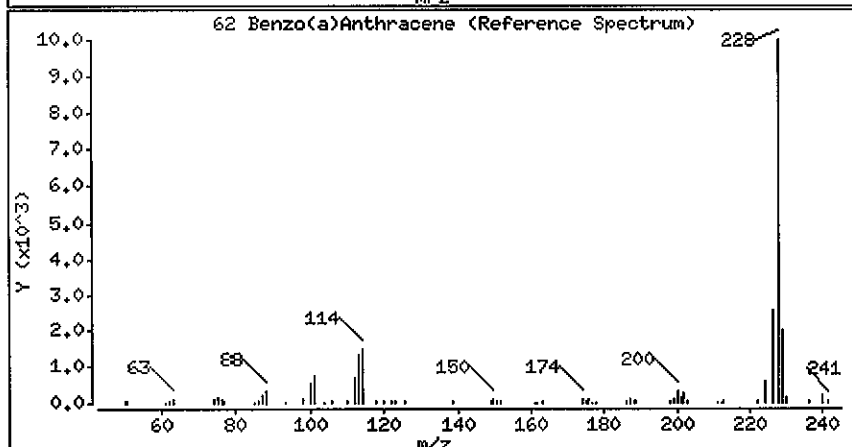
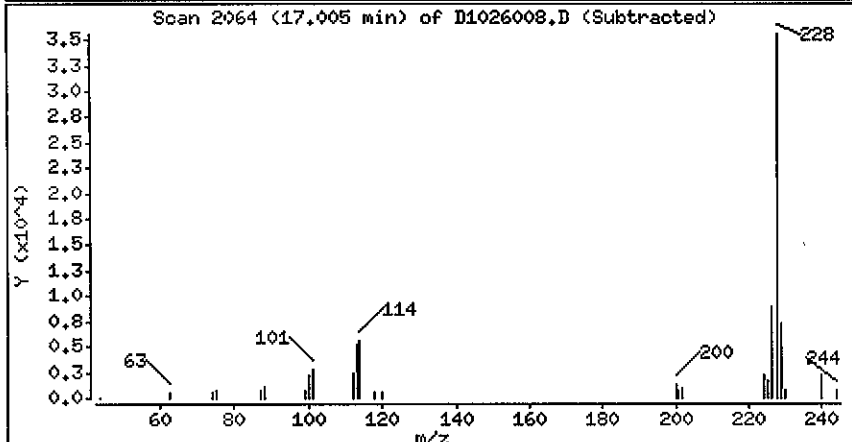
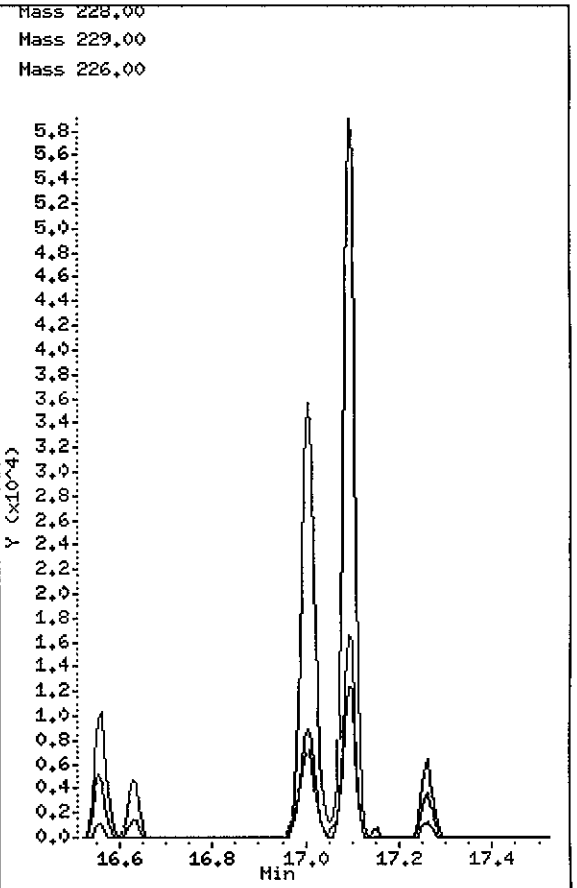
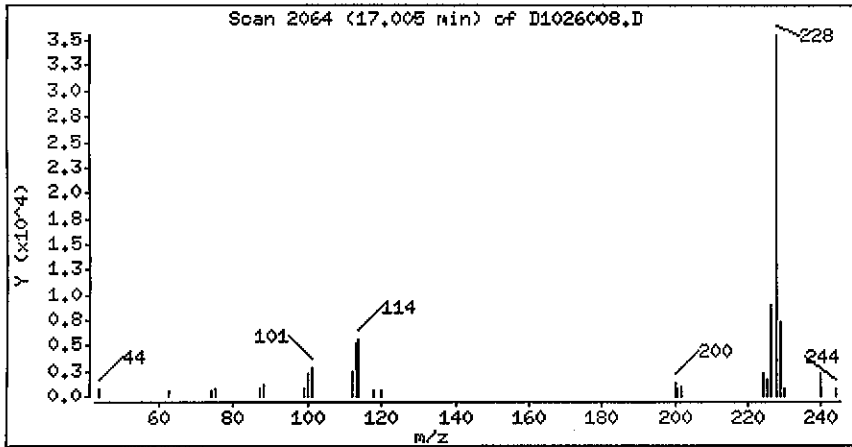
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Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL (ug/Kg)
62 Benzo(a)Anthracene	228	17.005	17.020	(0.997)	72419	5.24109	87.352(a)
63 Chrysene	228	17.092	17.114	(1.002)	102242	8.24579	137.43(a) - NA
64 bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
65 Di-n-octylphthalate	149	Compound Not Detected.					
66 Benzo(b)fluoranthene	252	19.283	19.304	(0.963)	109246	7.70566	128.43(aQH)
67 Benzo(k)fluoranthene	252	19.323	19.358	(0.965)	94824	7.18389	119.73(a) - NA
68 Benzo(a)pyrene	252	19.894	19.916	(0.994)	84059	6.70773	111.80(a)
69 Indeno(1,2,3-cd)pyrene	276	21.876	21.898	(1.093)	87112	7.14188	119.03(a)
70 Dibenz(a,h)anthracene	278	Compound Not Detected.					
71 Benzo(g,h,i)perylene	276	22.279	22.315	(1.113)	83082	6.59354	109.89(a) - NA
\$ 72 Nitrobenzene-d5	82	5.072	5.080	(0.878)	200190	32.0478	534.13
\$ 73 2-Fluorobiphenyl	172	7.228	7.230	(0.868)	413192	37.5239	625.40
\$ 74 Terphenyl-d14	244	14.821	14.816	(0.869)	747380	60.6054	1010.1
\$ 75 Phenol-d5	99	4.312	4.314	(0.945)	346224	48.9287	815.48
\$ 76 2-Fluorophenol	112	3.506	3.501	(0.769)	220651	37.6081	626.80
\$ 77 2,4,6-Tribromophenol	330	9.842	9.844	(0.878)	187496	81.5755	1359.6
\$ 78 2-Chlorophenol-d4	132	4.406	4.408	(0.966)	293887	50.9293	848.82
\$ 79 1,2-Dichlorobenzene-d4	152	4.729	4.724	(1.037)	115426	29.3362	488.94

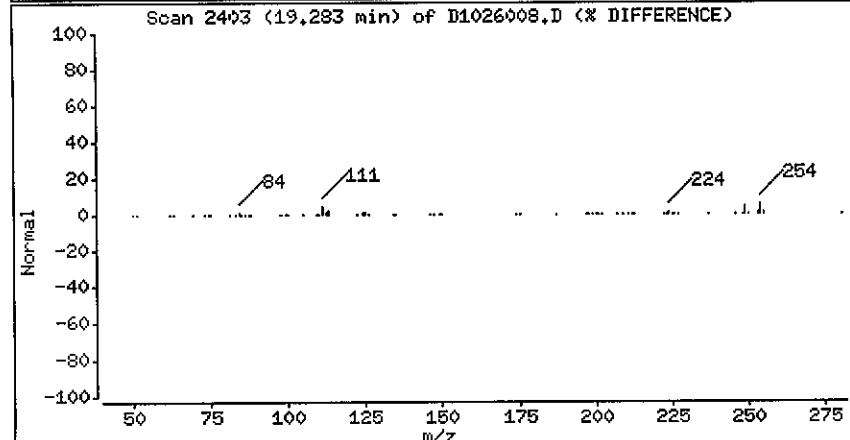
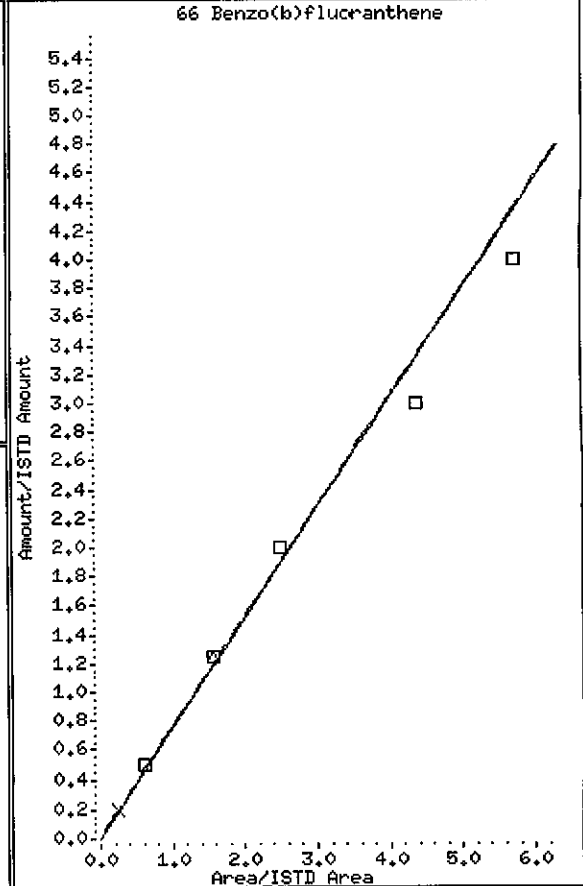
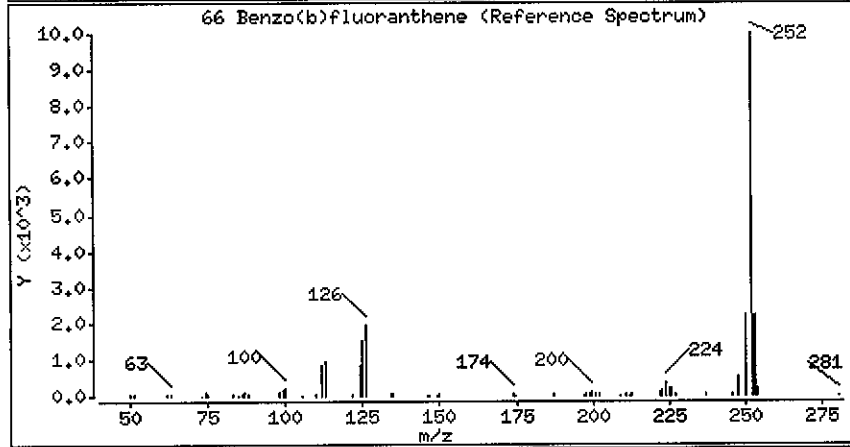
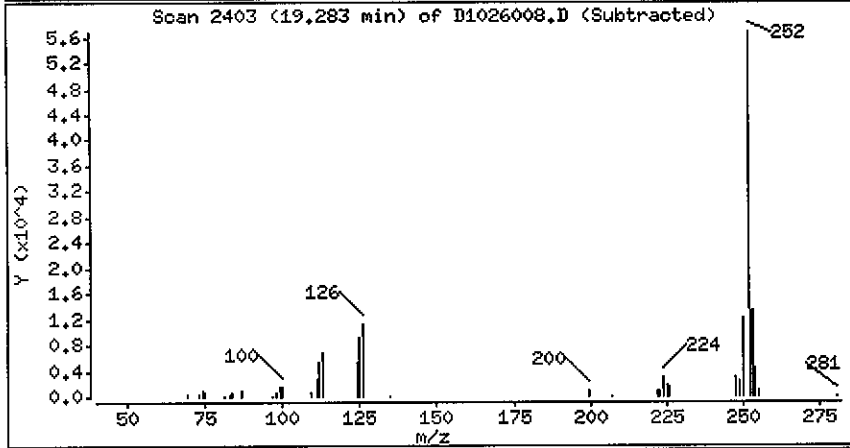
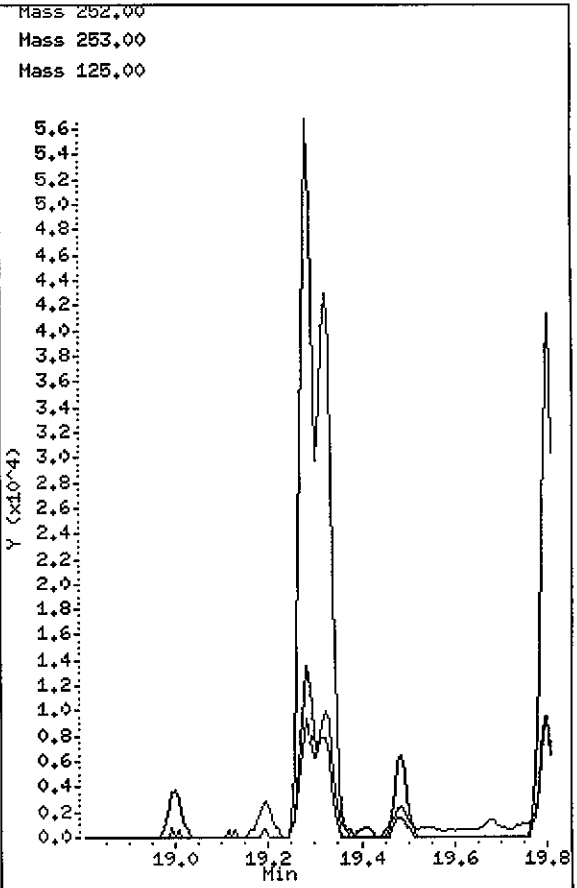
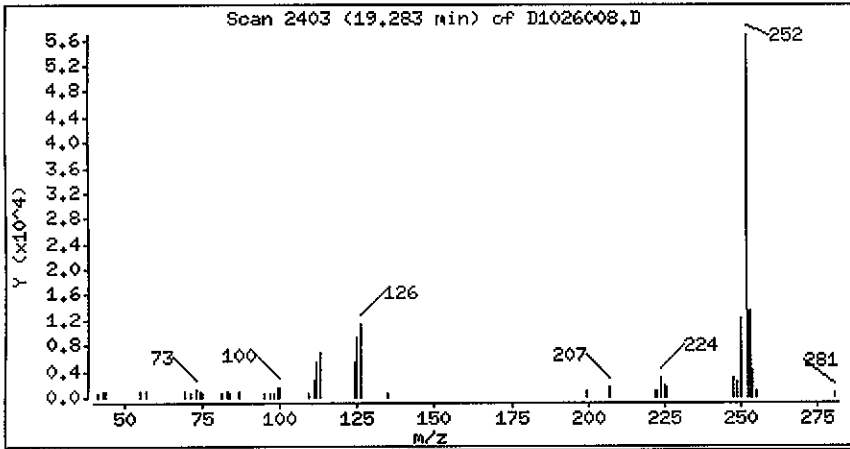
QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- H - Operator selected an alternate compound hit.

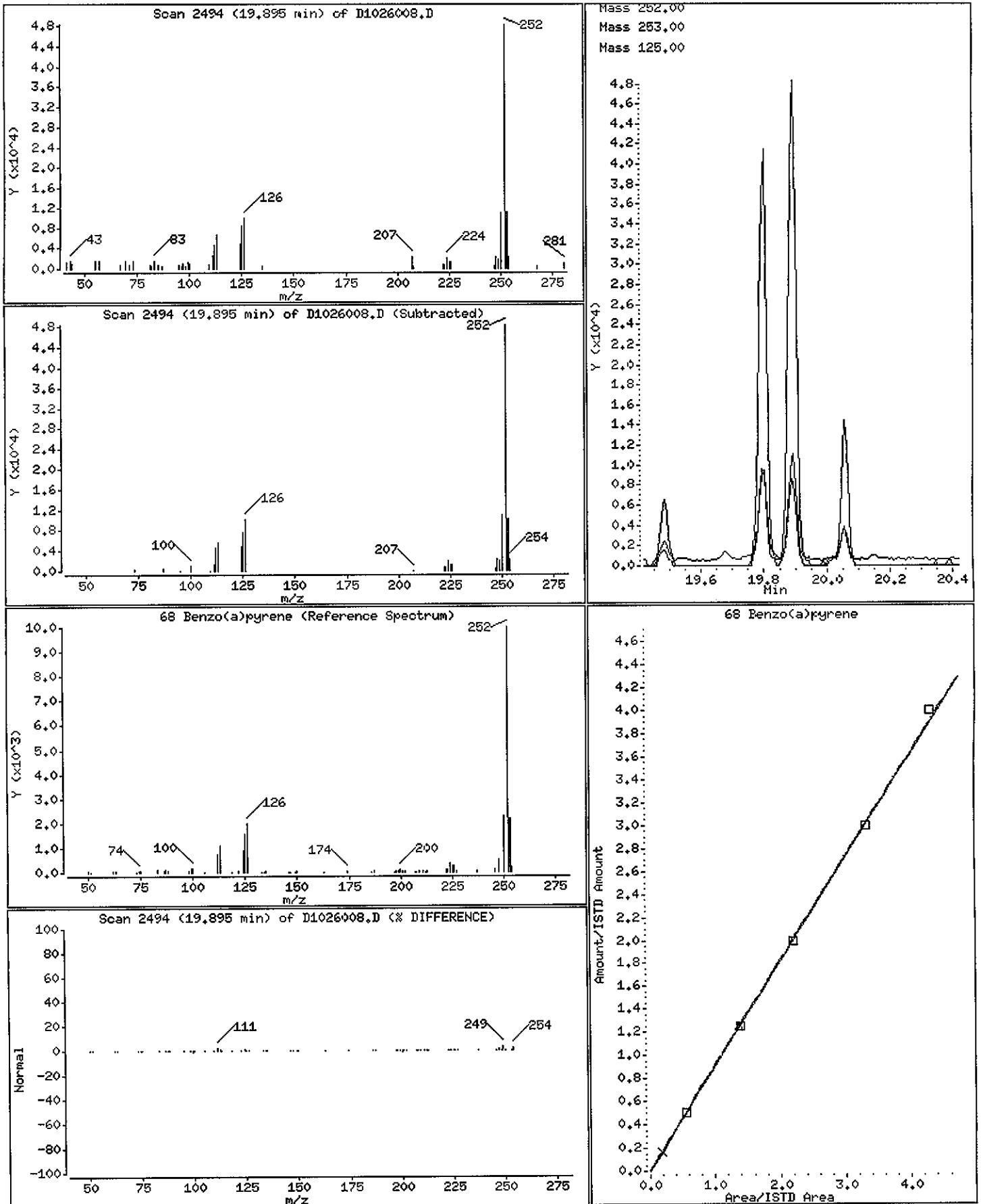
62 Benzo(a)Anthracene



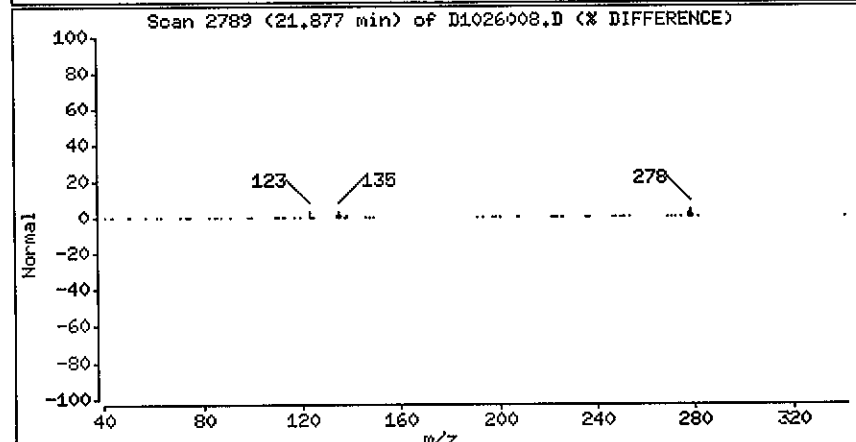
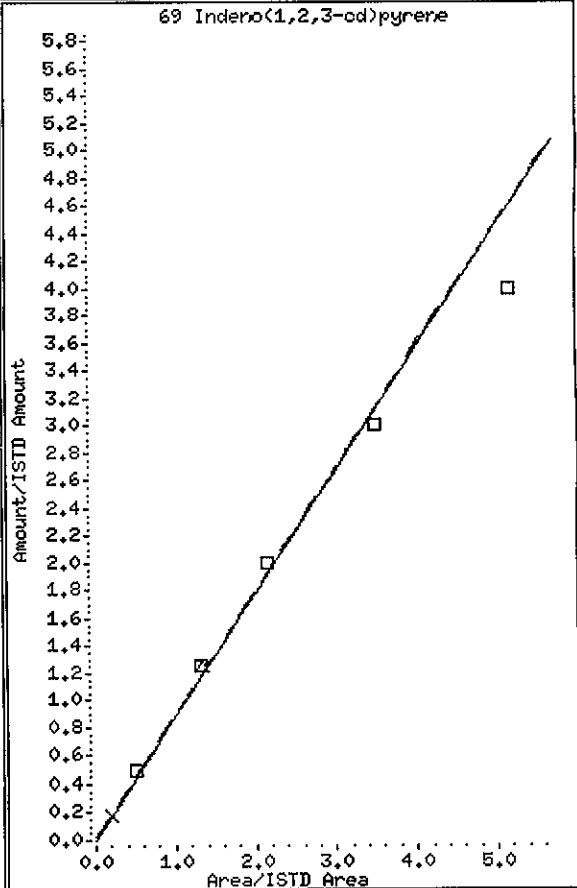
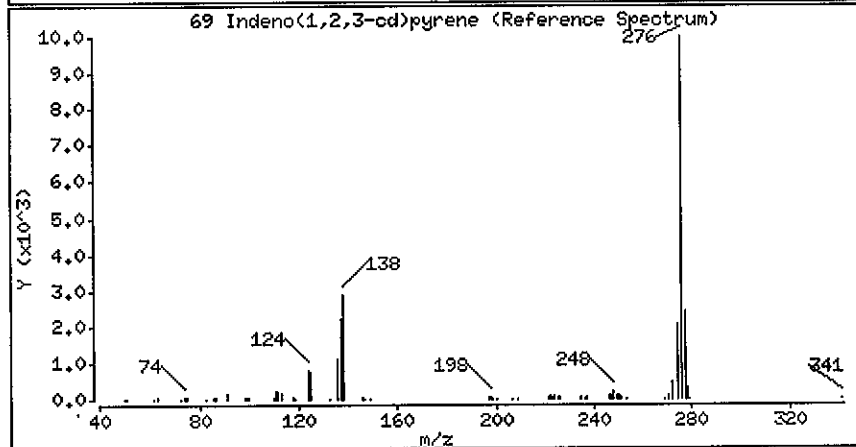
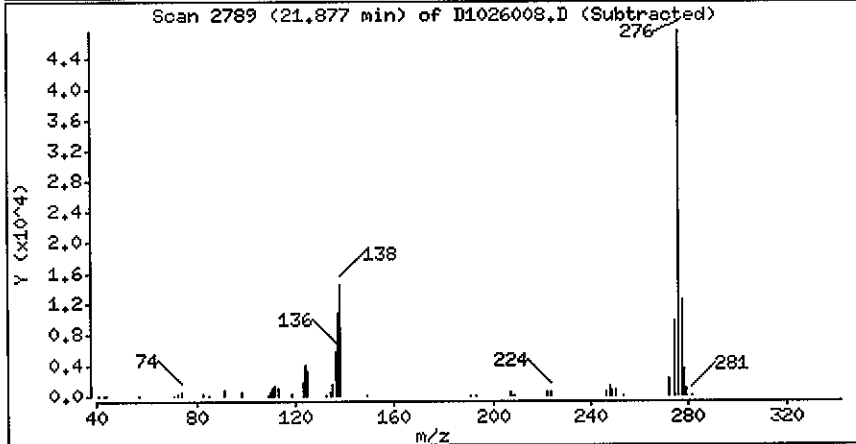
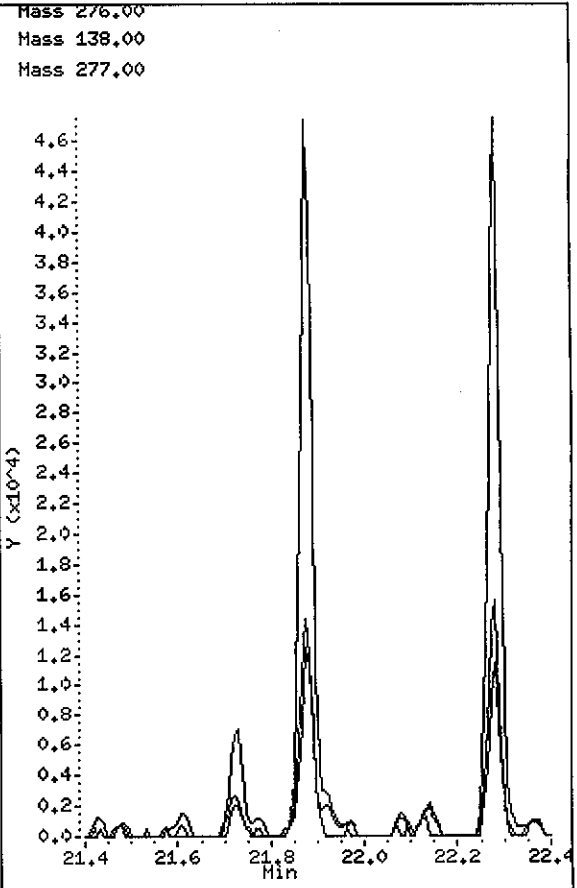
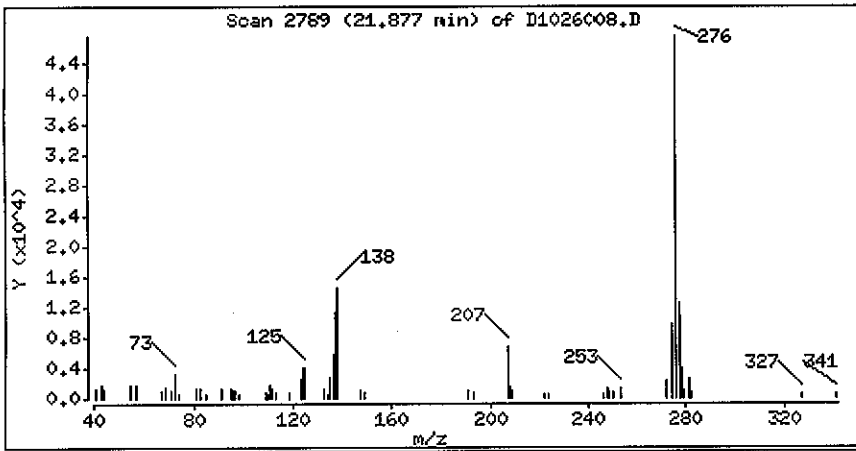
66 Benzo(b)fluoranthene



68 Benzo(a)pyrene



69 Indeno(1,2,3-cd)pyrene



**GC/MS SEMIVOLATILE
CALIBRATION DATA**

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0J240227

Instrument ID: 721

Calibration Date(s): 10/24/00

10/24/00

Calibration Time(s): 1329

1557

LAB FILE ID:	RRF20 =	D1024CC1	RRF50 =	D1024CC2	RRF80 =	D1024CC3	RRF120 =	D1024CC4	RRF160 =	D1024CC5		
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	%					
							RSD					
Phenol *	1.846	1.589	1.471	1.426	1.360	1.538	12.4*					
Bis(2-chloroethyl) ether *	1.442	1.291	1.255	1.209	1.162	1.272	8.4*					
2-Chlorophenol *	1.570	1.440	1.393	1.371	1.320	1.419	6.7*					
2-Methylphenol *	1.272	1.210	1.137	1.120	1.072	1.162	6.8*					
2,2'-oxybis(1-Chloropropane)	1.926	1.735	1.619	1.526	1.428	1.647	11.7					
N-Nitroso-di-n-propylamine *	1.002	0.941	0.922	0.910	0.839	0.923	6.4*					
4-Methylphenol *	1.302	1.128	1.042	1.002	0.963	1.087	12.4*					
Hexachloroethane *	0.664	0.622	0.607	0.583	0.537	0.603	7.8*					
Nitrobenzene *	0.384	0.360	0.342	0.335	0.322	0.349	6.9*					
Isophorone *	0.690	0.656	0.638	0.641	0.640	0.653	3.4*					
2-Nitrophenol *	0.229	0.230	0.224	0.225	0.213	0.224	3.0*					
2,4-Dimethylphenol *	0.342	0.332	0.316	0.317	0.309	0.323	4.1*					
Bis(2-chloroethoxy)methane *	0.420	0.399	0.379	0.374	0.361	0.387	6.1*					
2,4-Dichlorophenol *	0.308	0.299	0.287	0.284	0.272	0.290	4.9*					
Naphthalene *	1.121	1.024	0.970	0.934	0.895	0.989	8.9*					
4-Chloroaniline	0.469	0.451	0.426	0.418	0.389	0.431	7.2					
Hexachlorobutadiene	0.187	0.185	0.182	0.179	0.171	0.181	3.5					
4-Chloro-3-Methylphenol *	0.307	0.295	0.286	0.276	0.272	0.287	4.9*					
2-Methylnaphthalene *	0.674	0.617	0.588	0.568	0.544	0.598	8.4*					
Hexachlorocyclopentadiene	0.456	0.458	0.470	0.467	0.459	0.462	1.3					
2,4,6-Trichlorophenol *	0.436	0.431	0.437	0.435	0.438	0.435	0.6*					
2,4,5-Trichlorophenol *	0.468	0.461	0.466	0.465	0.445	0.461	2.0*					
2-Chloronaphthalene *	1.208	1.115	1.096	1.096	1.067	1.116	4.8*					
2-Nitroaniline	0.391	0.386	0.398	0.395	0.388	0.392	1.3					
Dimethylphthalate	1.417	1.384	1.399	1.387	1.365	1.390	1.4					
Acenaphthylene *	1.996	1.896	1.884	1.828	1.781	1.877	4.3*					
2,6-Dinitrotoluene *	0.342	0.336	0.342	0.344	0.339	0.341	0.9*					
3-Nitroaniline	0.408	0.403	0.406	0.410	0.406	0.407	0.7					
Acenaphthene *	1.222	1.151	1.134	1.122	1.095	1.145	4.2*					
2,4-Dinitrophenol	0.105	0.182	0.214	0.237	0.248	0.197	29.1					
4-Nitrophenol	0.165	0.180	0.187	0.183	0.178	0.179	4.6					
Dibenzofuran *	1.677	1.611	1.577	1.513	1.486	1.573	4.9*					
2,4-Dinitrotoluene *	0.445	0.447	0.458	0.471	0.462	0.457	2.4*					
Diethylphthalate	1.435	1.371	1.352	1.316	1.275	1.350	4.5					
4-Chlorophenyl-phenylether *	0.680	0.655	0.654	0.653	0.620	0.652	3.2*					
Fluorene *	1.304	1.224	1.196	1.144	1.102	1.194	6.5*					

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6D
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0J240227

Instrument ID: 721

Calibration Date(s): 10/24/00

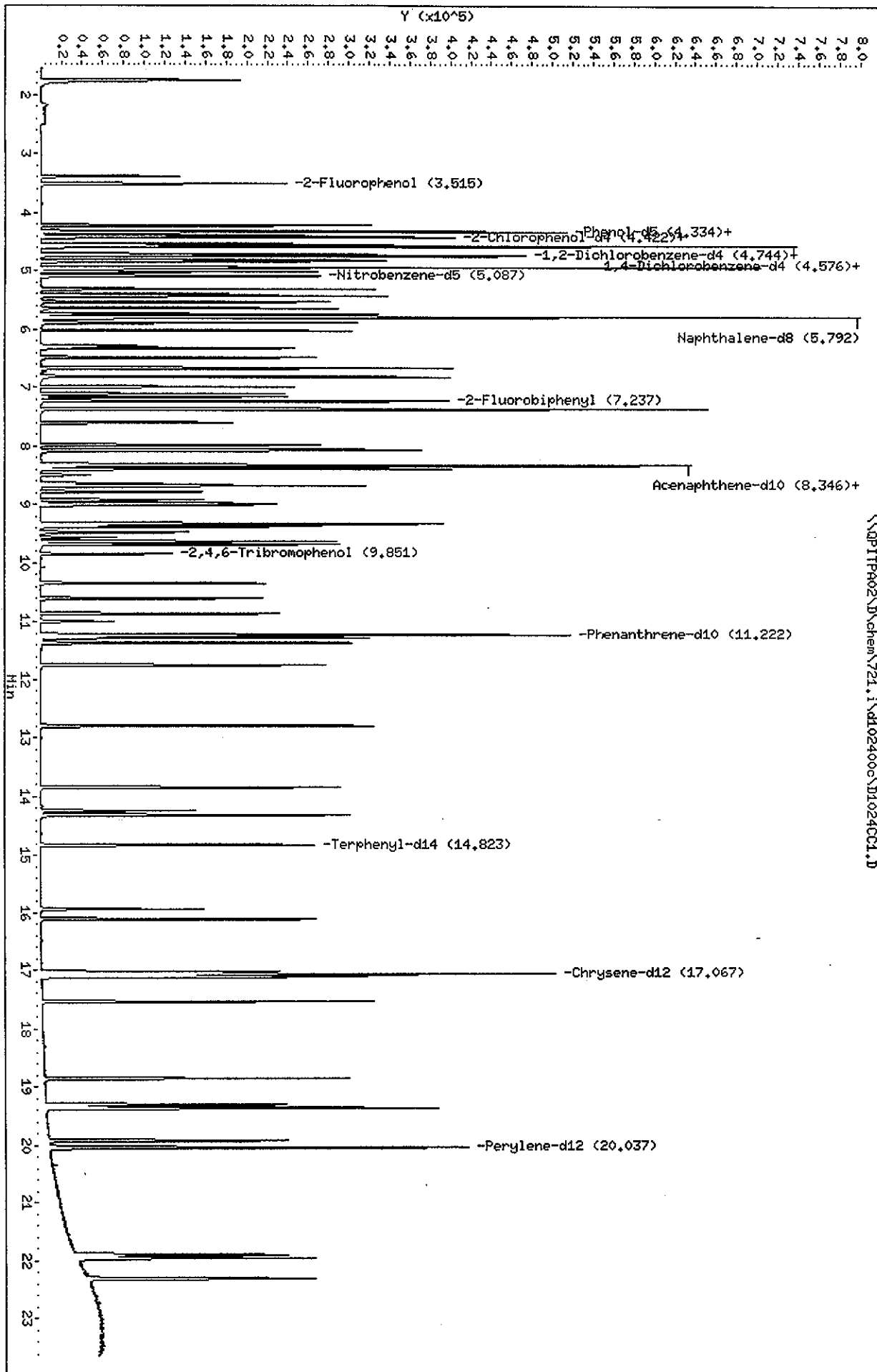
10/24/00

Calibration Time(s): 1329

1557

LAB FILE ID:	RRF20 =	D1024CC1	RRF50 =	D1024CC2	RRF80 =	D1024CC3	RRF120 =	D1024CC4	RRF160 =	D1024CC5		
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	%	RSD				
4-Nitroaniline	0.395	0.390	0.404	0.418	0.413	0.404	2.8					
4,6-Dinitro-2-methylphenol	0.102	0.151	0.165	0.172	0.177	0.153	19.7					
N-Nitrosodiphenylamine (1)	0.586	0.564	0.526	0.530	0.507	0.543	5.9					
4-Bromophenyl-phenylether *	0.235	0.230	0.227	0.226	0.223	0.228	2.0*					
Hexachlorobenzene *	0.272	0.270	0.268	0.262	0.262	0.267	1.8*					
Pentachlorophenol *	0.075	0.125	0.145	0.155	0.162	0.132	26.5*					
Phenanthrene *	1.049	1.005	0.970	0.950	0.934	0.982	4.7*					
Anthracene *	1.088	1.031	0.973	0.947	0.931	0.994	6.5*					
Carbazole	0.989	0.942	0.917	0.902	0.894	0.929	4.1					
Di-n-Butylphthalate	1.405	1.355	1.309	1.268	1.231	1.314	5.2					
Fluoranthene *	1.115	1.079	1.034	1.013	0.992	1.047	4.8*					
Pyrene *	1.267	1.200	1.186	1.190	1.164	1.201	3.2*					
Butylbenzylphthalate	0.648	0.636	0.634	0.645	0.628	0.638	1.2					
3,3'-Dichlorobenzidine	0.423	0.440	0.431	0.420	0.403	0.423	3.3					
Benzo (a) Anthracene *	1.106	1.060	1.058	1.076	1.056	1.071	2.0*					
Chrysene *	1.033	0.977	0.964	0.963	0.941	0.976	3.5*					
bis(2-ethylhexyl) Phthalate	0.901	0.888	0.870	0.880	0.866	0.881	1.6					
Di-n-octylphthalate	1.782	1.782	1.754	1.699	1.603	1.724	4.4					
Benzo (b) fluoranthene *	1.214	1.245	1.252	1.456	1.436	1.321	8.8*					
Benzo (k) fluoranthene *	1.270	1.240	1.194	0.966	0.891	1.112	15.4*					
Benzo (a) pyrene *	1.122	1.115	1.100	1.106	1.075	1.104	1.6*					
Indeno (1,2,3-cd) pyrene *	1.024	1.050	1.082	1.165	1.294	1.123	9.8*					
Dibenz (a,h) anthracene *	1.069	1.118	1.120	1.165	1.171	1.129	3.7*					
Benzo (g,h,i) perylene *	1.085	1.104	1.134	1.205	1.246	1.155	5.9*					
Benzaldehyde	1.251	0.761	0.770	0.374	0.204	0.672	60.4					
Acetophenone	1.908	1.671	1.586	1.556	1.492	1.643	9.8					
Caprolactam	0.120	0.108	0.111	0.115	0.108	0.112	4.3					
1,1'-Biphenyl	1.611	1.439	1.389	1.353	1.328	1.424	7.9					
Atrazine	0.220	0.201	0.204	0.203	0.200	0.206	4.0					
Nitrobenzene-d5 *	0.394	0.392	0.366	0.355	0.344	0.370	6.1*					
2-Fluorobiphenyl *	1.415	1.398	1.330	1.314	1.270	1.345	4.5*					
Terphenyl-d14 *	0.987	1.001	0.957	0.950	0.926	0.964	3.1*					
Phenol-d5 *	1.726	1.628	1.474	1.434	1.347	1.522	10.1*					
2-Fluorophenol *	1.464	1.483	1.388	1.385	1.342	1.412	4.2*					
2,4,6-Tribromophenol	0.149	0.167	0.161	0.158	0.154	0.158	4.3					
2-Chlorophenol-d4 *	1.421	1.399	1.281	1.249	1.201	1.310	7.3*					
1,2-Dichlorobenzene-d4 *	0.998	0.954	0.872	0.822	0.789	0.887	9.9*					

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.



STL-Pittsburgh

Semivolatitle REPORT CLP3.2

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 Als bottle: 6 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE
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 Processing Host: PITPC013

DLF
10-24-00

Compound Sublist: 1-all.sub

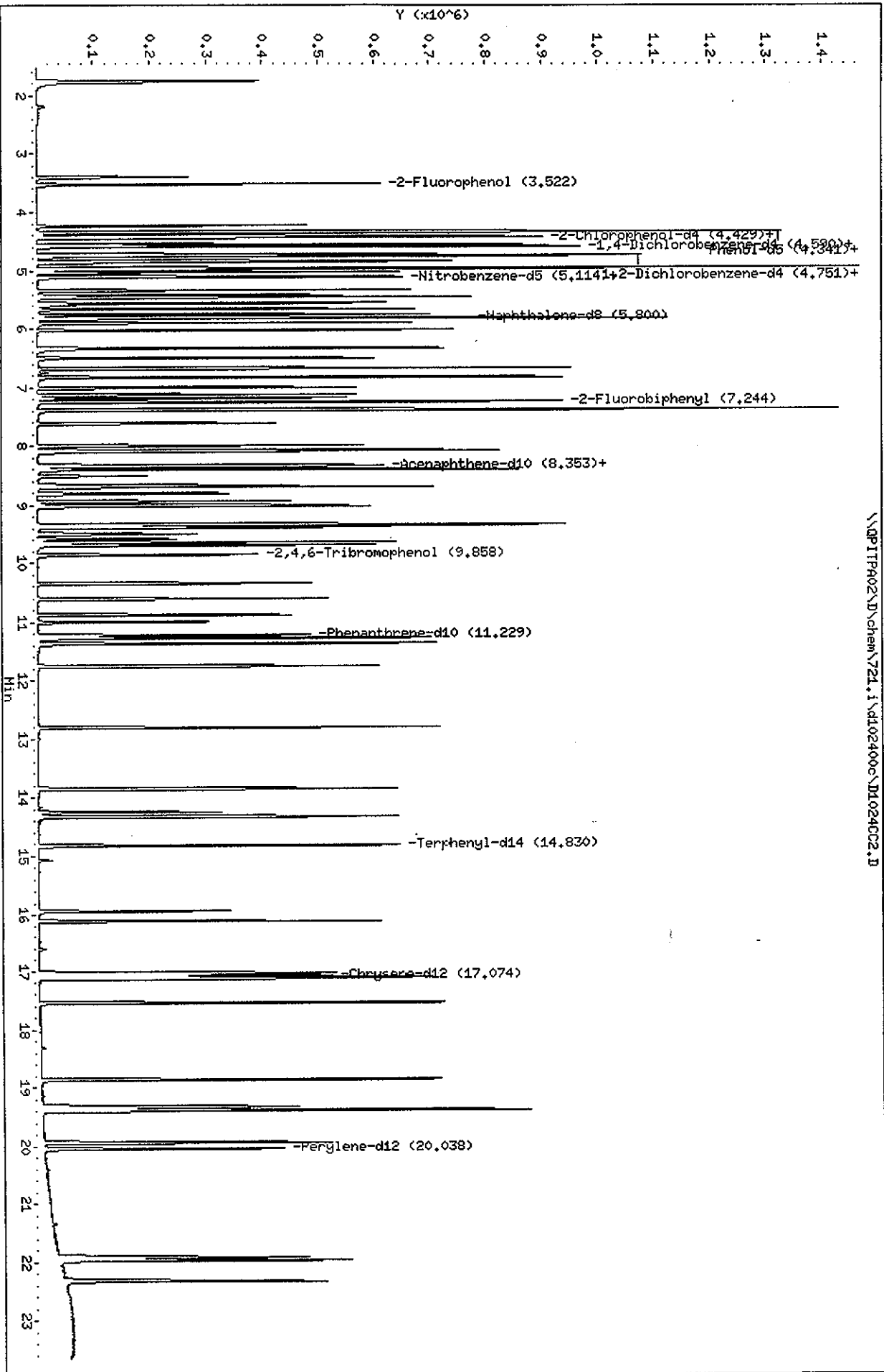
Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.576	4.576	(1.000)	125309	40.0000	
* 2 Naphthalene-d8	136	5.792	5.792	(1.000)	475044	40.0000	
* 3 Acenaphthene-d10	164	8.345	8.345	(1.000)	231688	40.0000	
* 4 Phenanthrene-d10	188	11.221	11.221	(1.000)	385232	40.0000	
* 5 Chrysene-d12	240	17.067	17.067	(1.000)	337051	40.0000	
* 6 Perylene-d12	264	20.037	20.037	(1.000)	285124	40.0000	
191 Benzaldehyde	77	4.226	4.226	(0.924)	78364	20.0000	37.223
7 Phenol	94	4.334	4.334	(0.947)	115682	20.0000	23.997
8 Bis(2-chloroethyl) ether	93	4.394	4.394	(0.960)	90350	20.0000	22.675
9 2-Chlorophenol	128	4.428	4.428	(0.968)	98383	20.0000	22.136
10 1,3-Dichlorobenzene	146	4.542	4.542	(0.993)	102224	20.0000	21.713
11 1,4-Dichlorobenzene	146	4.589	4.589	(1.003)	102153	20.0000	21.892
12 1,2-Dichlorobenzene	146	4.751	4.751	(1.038)	94827	20.0000	22.598
189 Benzyl Alcohol	108	4.710	4.710	(1.029)	60121	20.0000	21.596
13 2-Methylphenol	108	4.824	4.824	(1.054)	79726	20.0000	21.897
14 2,2'-oxybis(1-Chloropropane)	45	4.845	4.845	(1.059)	120671	20.0000	23.390
192 Acetophenone	105	4.952	4.952	(1.082)	119524	20.0000	23.231
15 4-Methylphenol	108	4.945	4.945	(1.081)	81610	20.0000	23.952
16 N-Nitroso-di-n-propylamine	70	4.972	4.972	(1.087)	62798	20.0000	21.720
17 Hexachloroethane	117	5.019	5.019	(1.097)	41606	20.0000	22.039
18 Nitrobenzene	77	5.107	5.107	(0.882)	91117	20.0000	22.006
19 Isophorone	82	5.322	5.322	(0.919)	163890	20.0000	21.135
20 2-Nitrophenol	139	5.409	5.409	(0.934)	54416	20.0000	20.420
21 2,4-Dimethylphenol	107	5.443	5.443	(0.940)	81207	20.0000	21.149
22 Bis(2-chloroethoxy)methane	93	5.543	5.543	(0.957)	99885	20.0000	21.756
190 Benzoic acid	122	5.543	5.543	(0.957)	5759	20.0000	6.9322 (H)

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
=====	----	..	-----	-----	-----	-----	-----
23 2,4-Dichlorophenol	162	5.644	5.644	(0.974)	73167	20.0000	21.259
24 1,2,4-Trichlorobenzene	180	5.745	5.745	(0.992)	76507	20.0000	21.056
25 Naphthalene	128	5.812	5.812	(1.003)	266241	20.0000	22.670
26 4-Chloroaniline	127	5.893	5.893	(1.017)	111403	20.0000	21.777
193 Caprolactam	113	6.289	6.289	(1.086)	28470	20.0000	21.306
27 Hexachlorobutadiene	225	6.020	6.020	(1.039)	44364	20.0000	20.668
28 4-Chloro-3-Methylphenol	107	6.484	6.484	(1.119)	72857	20.0000	21.368
29 2-Methylnaphthalene	142	6.665	6.665	(1.151)	160008	20.0000	22.534
30 Hexachlorocyclopentadiene	237	6.995	6.995	(0.838)	52817	20.0000	19.736
31 2,4,6-Trichlorophenol	196	7.116	7.116	(0.853)	50505	20.0000	20.019
32 2,4,5-Trichlorophenol	196	7.169	7.169	(0.859)	54225	20.0000	20.304
194 1,1'-Biphenyl	154	7.371	7.371	(0.883)	186674	20.0000	22.635
33 2-Chloronaphthalene	162	7.378	7.378	(0.884)	139924	20.0000	21.640
34 2-Nitroaniline	65	7.599	7.599	(0.911)	45323	20.0000	19.987
35 Dimethylphthalate	163	7.989	7.989	(0.957)	164107	20.0000	20.376
36 Acenaphthylene	152	8.070	8.070	(0.967)	231240	20.0000	21.270
37 2,6-Dinitrotoluene	165	8.090	8.090	(0.969)	39585	20.0000	20.061
38 3-Nitroaniline	138	8.318	8.318	(0.997)	47302	20.0000	20.084
39 Acenaphthene	153	8.399	8.399	(1.006)	141571	20.0000	21.352
40 2,4-Dinitrophenol	184	8.500	8.500	(1.019)	12174	20.0000	10.648
41 4-Nitrophenol	109	8.648	8.648	(1.036)	19141	20.0000	18.480
42 Dibenzofuran	168	8.688	8.688	(1.041)	194284	20.0000	21.329
43 2,4-Dinitrotoluene	165	8.795	8.795	(1.054)	51537	20.0000	19.477
44 Diethylphthalate	149	9.320	9.320	(1.117)	166277	20.0000	21.266
45 4-Chlorophenyl-phenylether	204	9.380	9.380	(1.124)	78755	20.0000	20.838
46 Fluorene	166	9.340	9.340	(1.119)	151039	20.0000	21.838
47 4-Nitroaniline	138	9.474	9.474	(1.135)	45770	20.0000	19.560
48 4,6-Dinitro-2-methylphenol	198	9.561	9.561	(0.852)	19746	20.0000	13.348
49 N-Nitrosodiphenylamine (1)	169	9.629	9.629	(0.858)	112828	20.0000	21.592
50 4-Bromophenyl-phenylether	248	10.348	10.348	(0.922)	45235	20.0000	20.581
51 Hexachlorobenzene	284	10.603	10.603	(0.945)	52465	20.0000	20.422
195 Atrazine	200	10.858	10.858	(0.968)	42402	20.0000	21.420
53 Pentachlorophenol	266	10.993	10.993	(0.980)	14419	20.0000	11.288
54 Phenanthrene	178	11.268	11.268	(1.004)	202013	20.0000	21.371
55 Anthracene	178	11.362	11.362	(1.013)	209564	20.0000	21.889
56 Carbazole	167	11.752	11.752	(1.047)	190554	20.0000	21.299
57 Di-n-Butylphthalate	149	12.800	12.800	(1.141)	270557	20.0000	21.386
58 Fluoranthene	202	13.848	13.848	(1.234)	214768	20.0000	21.307
59 Pyrene	202	14.319	14.319	(0.839)	213506	20.0000	21.090
60 Butylbenzylphthalate	149	16.106	16.106	(0.944)	109124	20.0000	20.297
61 3,3'-Dichlorobenzidine	252	17.100	17.100	(1.002)	71334	20.0000	19.986
62 Benzo(a)Anthracene	228	17.027	17.027	(0.998)	186430	20.0000	20.651
63 Chrysene	228	17.121	17.121	(1.003)	174023	20.0000	21.172
64 bis(2-ethylhexyl)Phthalate	149	17.537	17.537	(1.028)	151868	20.0000	20.455
65 Di-n-octylphthalate	149	18.854	18.854	(0.941)	254012	20.0000	20.672
66 Benzo(b)fluoranthene	252	19.304	19.304	(0.963)	173011	20.0000	18.381
67 Benzo(k)fluoranthene	252	19.358	19.358	(0.966)	181077	20.0000	22.840

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
68 Benzo(a)pyrene	252	19.916	19.916	(0.994)	159920	20.0000	20.333
69 Indeno(1,2,3-cd)pyrene	276	21.898	21.898	(1.093)	145968	20.0000	18.233
70 Dibenz(a,h)anthracene	278	21.952	21.952	(1.096)	152415	20.0000	18.946
71 Benzo(g,h,i)perylene	276	22.308	22.308	(1.113)	154636	20.0000	18.786
\$ 72 Nitrobenzene-d5	82	5.086	5.086	(0.878)	93701	20.0000	21.312
\$ 73 2-Fluorobiphenyl	172	7.237	7.237	(0.867)	163899	20.0000	21.032
\$ 74 Terphenyl-d14	244	14.823	14.823	(0.869)	166345	20.0000	20.469
\$ 75 Phenol-d5	99	4.320	4.320	(0.944)	108160	20.0000	22.688
\$ 76 2-Fluorophenol	112	3.514	3.514	(0.768)	91722	20.0000	20.730
\$ 77 2,4,6-Tribromophenol	330	9.850	9.850	(0.878)	28768	20.0000	18.914
\$ 78 2-Chlorophenol-d4	132	4.415	4.415	(0.965)	89063	20.0000	21.699
\$ 79 1,2-Dichlorobenzene-d4	152	4.737	4.737	(1.035)	62540	20.0000	22.505

QC Flag Legend

H - Operator selected an alternate compound hit.



STL-Pittsburgh

Semivolatile REPORT CLP3.2

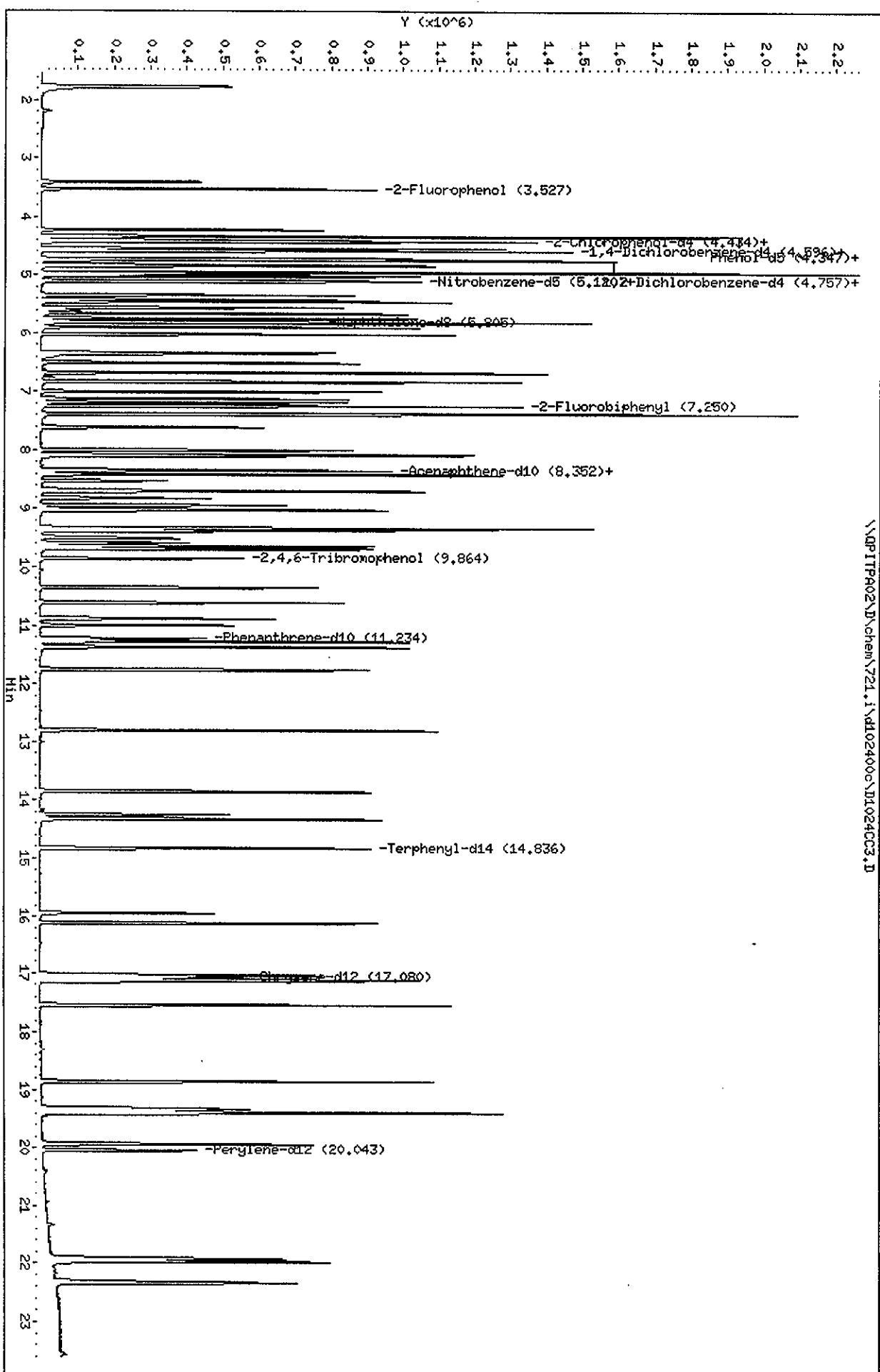
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 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-all.sub
 Target Version: 4.04
 Processing Host: PITPC013

*PK 3
10-24-00*

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.583	4.583	(1.000)	127589	40.0000	
* 2 Naphthalene-d8	136	5.799	5.799	(1.000)	471696	40.0000	
* 3 Acenaphthene-d10	164	8.352	8.352	(1.000)	228312	40.0000	
* 4 Phenanthrene-d10	188	11.228	11.228	(1.000)	382438	40.0000	
* 5 Chrysene-d12	240	17.074	17.074	(1.000)	337287	40.0000	
* 6 Perylene-d12	264	20.037	20.037	(1.000)	282797	40.0000	
191 Benzaldehyde	77	4.227	4.227	(0.922)	121369	50.0000	56.621
7 Phenol	94	4.341	4.341	(0.947)	253498	50.0000	51.647
8 Bis(2-chloroethyl) ether	93	4.401	4.401	(0.960)	205837	50.0000	50.736
9 2-Chlorophenol	128	4.435	4.435	(0.968)	229623	50.0000	50.743
10 1,3-Dichlorobenzene	146	4.549	4.549	(0.993)	242993	50.0000	50.690
11 1,4-Dichlorobenzene	146	4.596	4.596	(1.003)	244398	50.0000	51.439
12 1,2-Dichlorobenzene	146	4.758	4.758	(1.038)	221167	50.0000	51.764
189 Benzyl Alcohol	108	4.724	4.724	(1.031)	148395	50.0000	52.353
13 2-Methylphenol	108	4.831	4.831	(1.054)	192981	50.0000	52.057
14 2,2'-oxybis(1-Chloropropane)	45	4.852	4.852	(1.059)	276781	50.0000	52.691
192 Acetophenone	105	4.959	4.959	(1.082)	266448	50.0000	50.862
15 4-Methylphenol	108	4.952	4.952	(1.081)	179852	50.0000	51.842
16 N-Nitroso-di-n-propylamine	70	4.986	4.986	(1.088)	150099	50.0000	50.987
17 Hexachloroethane	117	5.026	5.026	(1.097)	99161	50.0000	51.587
18 Nitrobenzene	77	5.114	5.114	(0.882)	212566	50.0000	51.703
19 Isophorone	82	5.335	5.335	(0.920)	386856	50.0000	50.242
20 2-Nitrophenol	139	5.416	5.416	(0.934)	135815	50.0000	51.328
21 2,4-Dimethylphenol	107	5.450	5.450	(0.940)	195767	50.0000	51.347
22 Bis(2-chloroethoxy)methane	93	5.550	5.550	(0.957)	235374	50.0000	51.631
190 Benzoic acid	122	5.591	5.591	(0.964)	40219	50.0000	48.756

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
23 2,4-Dichlorophenol	162	5.651	5.651	(0.975)	176199	50.0000	51.559
24 1,2,4-Trichlorobenzene	180	5.752	5.752	(0.992)	185412	50.0000	51.391
25 Naphthalene	128	5.819	5.819	(1.003)	604042	50.0000	51.800
26 4-Chloroaniline	127	5.900	5.900	(1.017)	266105	50.0000	52.388
193 Caprolactam	113	6.330	6.330	(1.092)	63947	50.0000	48.196
27 Hexachlorobutadiene	225	6.021	6.021	(1.038)	108923	50.0000	51.105
28 4-Chloro-3-Methylphenol	107	6.498	6.498	(1.120)	173749	50.0000	51.319
29 2-Methylnaphthalene	142	6.673	6.673	(1.151)	363971	50.0000	51.622
30 Hexachlorocyclopentadiene	237	6.995	6.995	(0.838)	130777	50.0000	49.590
31 2,4,6-Trichlorophenol	196	7.116	7.116	(0.852)	122996	50.0000	49.473
32 2,4,5-Trichlorophenol	196	7.176	7.176	(0.859)	131635	50.0000	50.020
194 1,1'-Biphenyl	154	7.378	7.378	(0.883)	410579	50.0000	50.520
33 2-Chloronaphthalene	162	7.392	7.392	(0.885)	318132	50.0000	49.927
34 2-Nitroaniline	65	7.613	7.613	(0.912)	110041	50.0000	49.244
35 Dimethylphthalate	163	7.996	7.996	(0.957)	394882	50.0000	49.756
36 Acenaphthylene	152	8.077	8.077	(0.967)	541033	50.0000	50.502
37 2,6-Dinitrotoluene	165	8.104	8.104	(0.970)	95921	50.0000	49.329
38 3-Nitroaniline	138	8.332	8.332	(0.998)	114929	50.0000	49.521
39 Acenaphthene	153	8.406	8.406	(1.006)	328403	50.0000	50.263
40 2,4-Dinitrophenol	184	8.514	8.514	(1.019)	51943	50.0000	46.104
41 4-Nitrophenol	109	8.668	8.668	(1.038)	51427	50.0000	50.386
42 Dibenzofuran	168	8.695	8.695	(1.041)	459673	50.0000	51.211
43 2,4-Dinitrotoluene	165	8.809	8.809	(1.055)	127660	50.0000	48.960
44 Diethylphthalate	149	9.333	9.333	(1.117)	391312	50.0000	50.786
45 4-Chlorophenyl-phenylether	204	9.387	9.387	(1.124)	186980	50.0000	50.204
46 Fluorene	166	9.347	9.347	(1.119)	349416	50.0000	51.267
47 4-Nitroaniline	138	9.501	9.501	(1.138)	111459	50.0000	48.337
48 4,6-Dinitro-2-methylphenol	198	9.582	9.582	(0.853)	72224	50.0000	49.178
49 N-Nitrosodiphenylamine (1)	169	9.642	9.642	(0.859)	269752	50.0000	52.001
50 4-Bromophenyl-phenylether	248	10.355	10.355	(0.922)	110083	50.0000	50.452
51 Hexachlorobenzene	284	10.610	10.610	(0.945)	128864	50.0000	50.528
195 Atrazine	200	10.879	10.879	(0.969)	96231	50.0000	48.967
53 Pentachlorophenol	266	11.000	11.000	(0.980)	59984	50.0000	47.304
54 Phenanthrene	178	11.275	11.275	(1.004)	480538	50.0000	51.207
55 Anthracene	178	11.369	11.369	(1.013)	492779	50.0000	51.846
56 Carbazole	167	11.759	11.759	(1.047)	450307	50.0000	50.701
57 Di-n-Butylphthalate	149	12.800	12.800	(1.140)	647903	50.0000	51.587
58 Fluoranthene	202	13.855	13.855	(1.234)	515942	50.0000	51.560
59 Pyrene	202	14.326	14.326	(0.839)	505949	50.0000	49.943
60 Butylbenzylphthalate	149	16.113	16.113	(0.944)	268005	50.0000	49.814
61 3,3'-Dichlorobenzidine	252	17.107	17.107	(1.002)	185700	50.0000	51.993
62 Benzo(a)Anthracene	228	17.040	17.040	(0.998)	446999	50.0000	49.480
63 Chrysene	228	17.128	17.128	(1.003)	411835	50.0000	50.070
64 bis(2-ethylhexyl) Phthalate	149	17.544	17.544	(1.028)	374372	50.0000	50.390
65 Di-n-octylphthalate	149	18.854	18.854	(0.941)	629842	50.0000	51.679
66 Benzo(b)fluoranthene	252	19.318	19.318	(0.964)	439972	50.0000	47.129
67 Benzo(k)fluoranthene	252	19.372	19.372	(0.967)	438253	50.0000	55.732

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
68 Benzo(a)pyrene	252	19.930	19.930	(0.995)	394153	50.0000	50.527
69 Indeno(1,2,3-cd)pyrene	276	21.918	21.918	(1.094)	371028	50.0000	46.727
70 Dibenz(a,h)anthracene	278	21.965	21.965	(1.096)	395067	50.0000	49.513
71 Benzo(g,h,i)perylene	276	22.328	22.328	(1.114)	390319	50.0000	47.808
\$ 72 Nitrobenzene-d5	82	5.094	5.094	(0.878)	230979	50.0000	52.908
\$ 73 2-Fluorobiphenyl	172	7.244	7.244	(0.867)	398945	50.0000	51.950
\$ 74 Terphenyl-d14	244	14.830	14.830	(0.869)	422158	50.0000	51.911
\$ 75 Phenol-d5	99	4.334	4.334	(0.946)	259607	50.0000	53.482
\$ 76 2-Fluorophenol	112	3.521	3.521	(0.768)	236488	50.0000	52.494
\$ 77 2,4,6-Tribromophenol	330	9.857	9.857	(0.878)	79853	50.0000	52.886
\$ 78 2-Chlorophenol-d4	132	4.422	4.422	(0.965)	223078	50.0000	53.379
\$ 79 1,2-Dichlorobenzene-d4	152	4.744	4.744	(1.035)	152227	50.0000	53.801



STL-Pittsburgh

Semivolatiles REPORT CLP3.2

Data file : \\QPITPA02\D\chem\721.i\d102400c\D1024CC3.D
 Lab Smp Id: sstd80 Client Smp ID: SSTD080
 Inj Date : 24-OCT-2000 14:28
 Operator : 001562, DLF Inst ID: 721.i
 Smp Info : SSTD080 (40ug/ml) 77-01-7 8270/clp/625
 Misc Info : sstd80,d102400c.b,clp.m,1-all.sub,1,3
 Comment :
 Method : \\QPITPA02\D\chem\721.i\d102400c\clp.m
 Meth Date : 24-Oct-2000 17:46 ferguson Quant Type: ISTD
 Cal Date : 24-OCT-2000 13:29 Cal File: D1024CC1.D
 Als bottle: 8 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC013

ALB
10-24-00

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.582	4.582	(1.000)	130745	40.0000		
* 2 Naphthalene-d8	136	5.805	5.805	(1.000)	485769	40.0000		
* 3 Acenaphthene-d10	164	8.358	8.358	(1.000)	227102	40.0000		
* 4 Phenanthrene-d10	188	11.234	11.234	(1.000)	393059	40.0000		
* 5 Chrysene-d12	240	17.080	17.080	(1.000)	339395	40.0000		
* 6 Perylene-d12	264	20.043	20.043	(1.000)	288475	40.0000		
191 Benzaldehyde	77	4.232	4.232	(0.924)	201271	80.0000	91.630	
7 Phenol	94	4.353	4.353	(0.950)	384782	80.0000	76.502	
8 Bis(2-chloroethyl)ether	93	4.407	4.407	(0.962)	328165	80.0000	78.936	
9 2-Chlorophenol	128	4.441	4.441	(0.969)	364239	80.0000	78.548	
10 1,3-Dichlorobenzene	146	4.555	4.555	(0.994)	385712	80.0000	78.520	
11 1,4-Dichlorobenzene	146	4.595	4.595	(1.003)	384166	80.0000	78.904	
12 1,2-Dichlorobenzene	146	4.756	4.756	(1.038)	343472	80.0000	78.448	
189 Benzyl Alcohol	108	4.730	4.730	(1.032)	231768	80.0000	79.792	
13 2-Methylphenol	108	4.837	4.837	(1.056)	297293	80.0000	78.259	
14 2,2'-oxybis(1-Chloropropane)	45	4.857	4.857	(1.060)	423387	80.0000	78.655	
192 Acetophenone	105	4.965	4.965	(1.084)	414797	80.0000	77.270	
15 4-Methylphenol	108	4.965	4.965	(1.084)	272568	80.0000	76.670	
16 N-Nitroso-di-n-propylamine	70	4.992	4.992	(1.089)	241054	80.0000	79.907	
17 Hexachloroethane	117	5.025	5.025	(1.097)	158758	80.0000	80.598	
18 Nitrobenzene	77	5.119	5.119	(0.882)	332463	80.0000	78.524	
19 Isophorone	82	5.341	5.341	(0.920)	619579	80.0000	78.135	
20 2-Nitrophenol	139	5.422	5.422	(0.934)	217812	80.0000	79.932	
21 2,4-Dimethylphenol	107	5.455	5.455	(0.940)	307182	80.0000	78.236	
22 Bis(2-chloroethoxy)methane	93	5.556	5.556	(0.957)	368293	80.0000	78.448	
190 Benzoic acid	122	5.617	5.617	(0.968)	69517	80.0000	81.832	

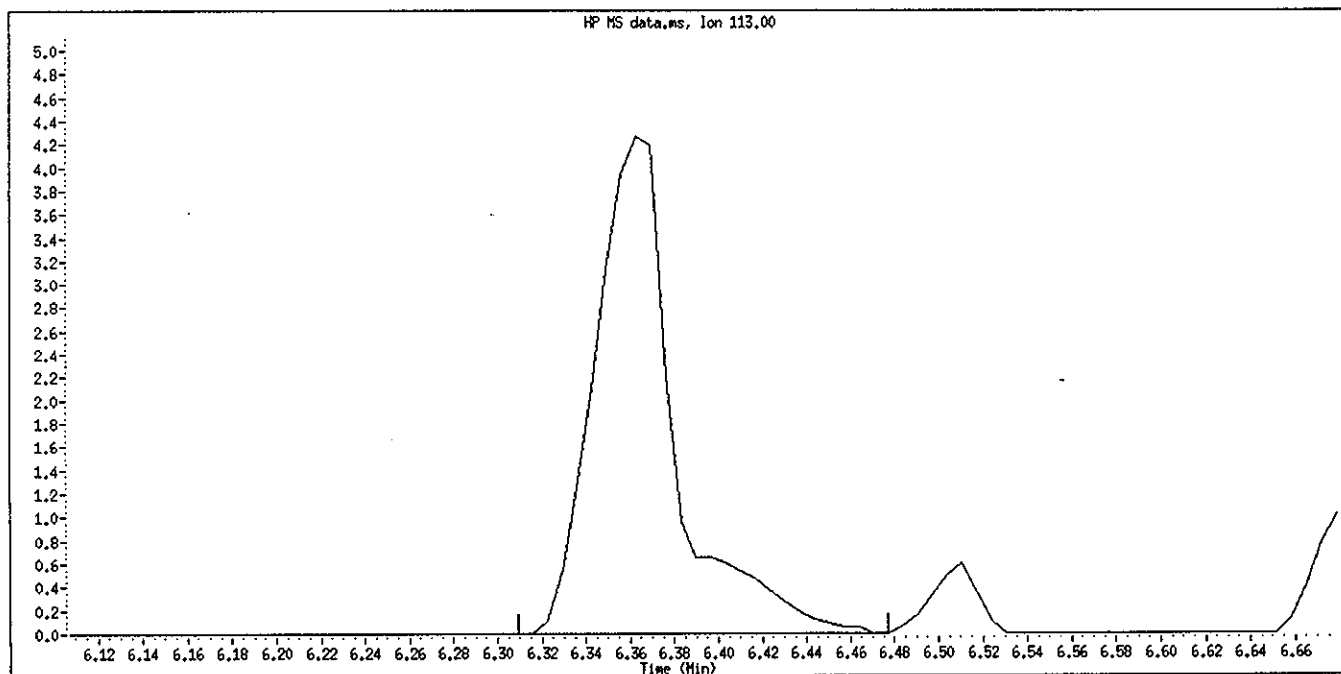
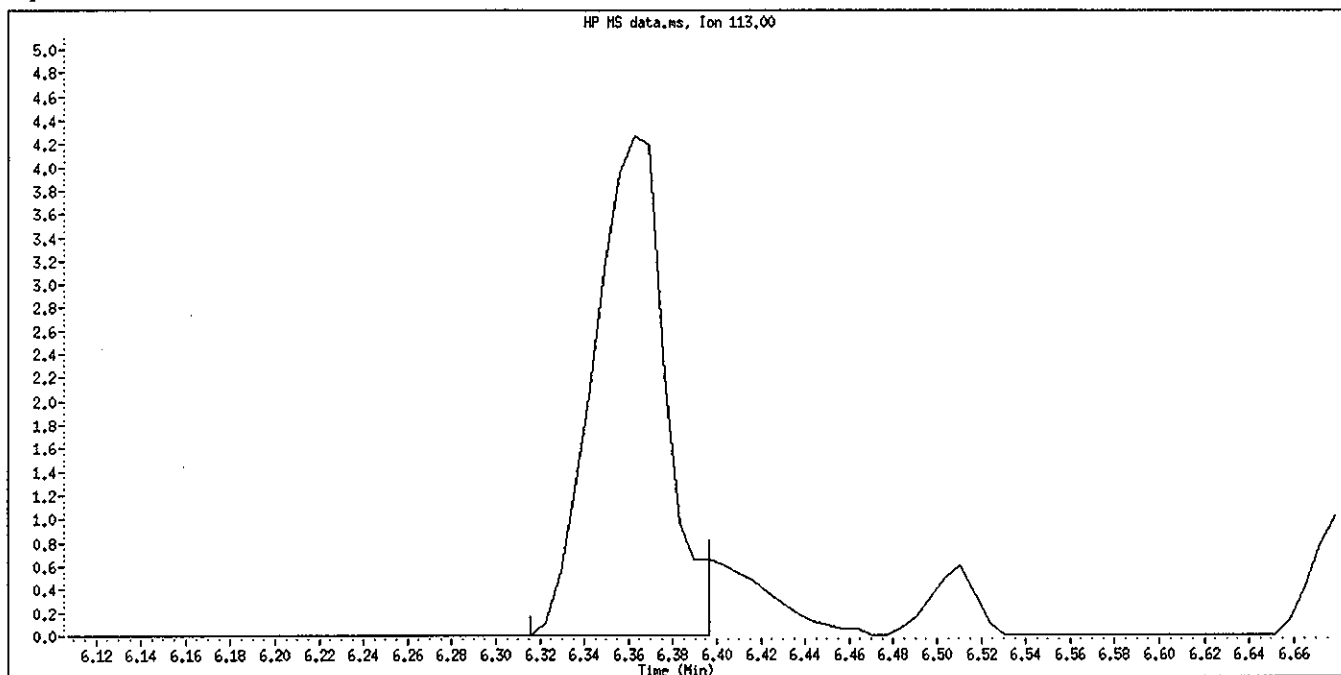
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	----	==	=====	=====	-----	-----	-----
23 2,4-Dichlorophenol	162	5.664	5.664	(0.976)	278852	80.0000	79.233
24 1,2,4-Trichlorobenzene	180	5.751	5.751	(0.991)	296786	80.0000	79.877
25 Naphthalene	128	5.825	5.825	(1.003)	942079	80.0000	78.447
26 4-Chloroaniline	127	5.905	5.905	(1.017)	414282	80.0000	79.197
193 Caprolactam	113	6.362	6.362	(1.096)	107964	80.0000	79.014 (M)
27 Hexachlorobutadiene	225	6.026	6.026	(1.038)	177208	80.0000	80.735
28 4-Chloro-3-Methylphenol	107	6.510	6.510	(1.122)	277457	80.0000	79.576
29 2-Methylnaphthalene	142	6.678	6.678	(1.150)	570794	80.0000	78.610
30 Hexachlorocyclopentadiene	237	7.001	7.001	(0.838)	213396	80.0000	81.350
31 2,4,6-Trichlorophenol	196	7.128	7.128	(0.853)	198494	80.0000	80.267
32 2,4,5-Trichlorophenol	196	7.189	7.189	(0.860)	211648	80.0000	80.852
194 1,1'-Biphenyl	154	7.384	7.384	(0.883)	630775	80.0000	78.027
33 2-Chloronaphthalene	162	7.397	7.397	(0.885)	497925	80.0000	78.560
34 2-Nitroaniline	65	7.619	7.619	(0.912)	180778	80.0000	81.331
35 Dimethylphthalate	163	8.009	8.009	(0.958)	635490	80.0000	80.500
36 Acenaphthylene	152	8.082	8.082	(0.967)	855987	80.0000	80.326
37 2,6-Dinitrotoluene	165	8.116	8.116	(0.971)	155528	80.0000	80.410
38 3-Nitroaniline	138	8.345	8.345	(0.998)	184612	80.0000	79.970
39 Acenaphthene	153	8.418	8.418	(1.007)	515168	80.0000	79.268
40 2,4-Dinitrophenol	184	8.526	8.526	(1.020)	97268	80.0000	86.794
41 4-Nitrophenol	109	8.687	8.687	(1.039)	85015	80.0000	83.738
42 Dibenzofuran	168	8.707	8.707	(1.042)	716203	80.0000	80.215
43 2,4-Dinitrotoluene	165	8.828	8.828	(1.056)	208287	80.0000	80.308
44 Diethylphthalate	149	9.346	9.346	(1.118)	614057	80.0000	80.119
45 4-Chlorophenyl-phenylether	204	9.393	9.393	(1.124)	297160	80.0000	80.213
46 Fluorene	166	9.359	9.359	(1.120)	543352	80.0000	80.146
47 4-Nitroaniline	138	9.520	9.520	(1.139)	183386	80.0000	79.954
48 4,6-Dinitro-2-methylphenol	198	9.601	9.601	(0.855)	129900	80.0000	86.061
49 N-Nitrosodiphenylamine (1)	169	9.655	9.655	(0.859)	413793	80.0000	77.612
50 4-Bromophenyl-phenylether	248	10.360	10.360	(0.922)	178366	80.0000	79.538
51 Hexachlorobenzene	284	10.616	10.616	(0.945)	210608	80.0000	80.349
195 Atrazine	200	10.898	10.898	(0.970)	160109	80.0000	79.270
53 Pentachlorophenol	266	11.005	11.005	(0.980)	113937	80.0000	87.424
54 Phenanthrene	178	11.288	11.288	(1.005)	762409	80.0000	79.048
55 Anthracene	178	11.382	11.382	(1.013)	765269	80.0000	78.340
56 Carbazole	167	11.771	11.771	(1.048)	721074	80.0000	78.993
57 Di-n-Butylphthalate	149	12.813	12.813	(1.141)	1029197	80.0000	79.732
58 Fluoranthene	202	13.868	13.868	(1.234)	813054	80.0000	79.056
59 Pyrene	202	14.338	14.338	(0.839)	804765	80.0000	78.946
60 Butylbenzylphthalate	149	16.119	16.119	(0.944)	430136	80.0000	79.453
61 3,3'-Dichlorobenzidine	252	17.120	17.120	(1.002)	292723	80.0000	81.449
62 Benzo(a)Anthracene	228	17.046	17.046	(0.998)	718296	80.0000	79.018
63 Chrysene	228	17.147	17.147	(1.004)	654454	80.0000	79.074
64 bis(2-ethylhexyl)Phthalate	149	17.543	17.543	(1.027)	590485	80.0000	78.984
65 Di-n-octylphthalate	149	18.867	18.867	(0.941)	1011828	80.0000	81.387
66 Benzo(b)fluoranthene	252	19.337	19.337	(0.965)	722356	80.0000	75.854
67 Benzo(k)fluoranthene	252	19.391	19.391	(0.967)	688624	80.0000	85.848

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
68 Benzo(a)pyrene	252	19.942	19.942	(0.995)	634368	80.0000	79.720
69 Indeno(1,2,3-cd)pyrene	276	21.931	21.931	(1.094)	624530	80.0000	77.105
70 Dibenz(a,h)anthracene	278	21.985	21.985	(1.097)	646219	80.0000	79.395
71 Benzo(g,h,i)perylene	276	22.347	22.347	(1.115)	654505	80.0000	78.590
\$ 72 Nitrobenzene-d5	82	5.099	5.099	(0.878)	355883	80.0000	79.157
\$ 73 2-Fluorobiphenyl	172	7.249	7.249	(0.867)	603986	80.0000	79.069
\$ 74 Terphenyl-d14	244	14.842	14.842	(0.869)	649817	80.0000	79.409
\$ 75 Phenol-d5	99	4.340	4.340	(0.947)	385531	80.0000	77.507
\$ 76 2-Fluorophenol	112	3.527	3.527	(0.770)	362967	80.0000	78.624
\$ 77 2,4,6-Tribromophenol	330	9.870	9.870	(0.879)	126712	80.0000	81.652
\$ 78 2-Chlorophenol-d4	132	4.427	4.427	(0.966)	334875	80.0000	78.196
\$ 79 1,2-Dichlorobenzene-d4	152	4.743	4.743	(1.035)	227996	80.0000	78.634

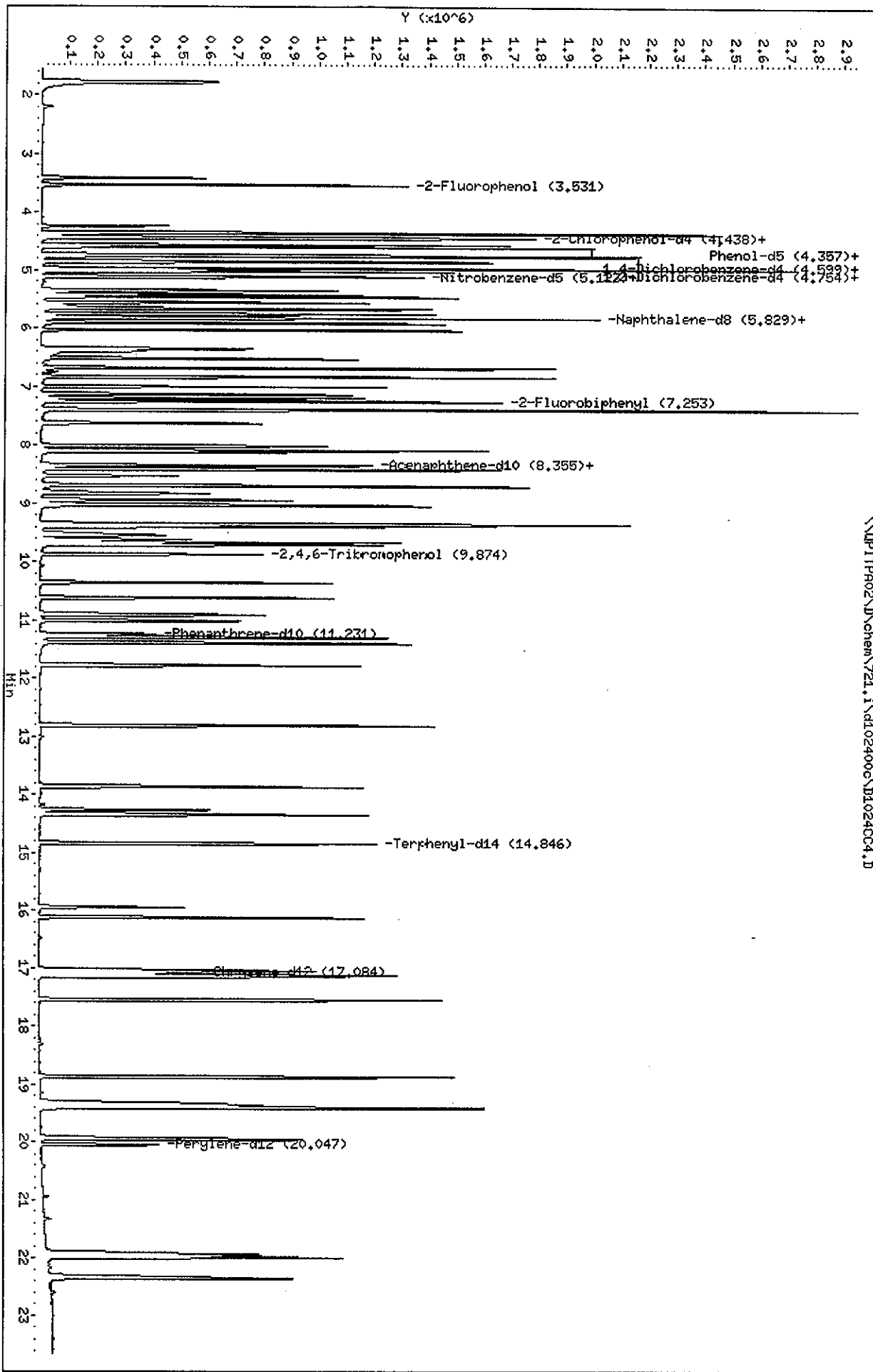
QC Flag Legend

M - Compound response manually integrated.

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Inj. Date and Time: 24-OCT-2000 14:28
Instrument ID: 721.i
Client ID: SSTD080
Compound Name: Caprolactam
CAS #: 105-60-2
Report Date: 10/24/2000



Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography



STL-Pittsburgh

Semivolatile REPORT CLP3.2

Data file : \\QPITPA02\D\chem\721.i\d102400c\D1024CC4.D
 Lab Smp Id: sstd120 Client Smp ID: SSTD120
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 Misc Info : sstd120,d102400c.b,clp.m,1-all.sub,1,4
 Comment :
 Method : \\QPITPA02\D\chem\721.i\d102400c\clp.m
 Meth Date : 24-Oct-2000 17:48 ferguson Quant Type: ISTD
 Cal Date : 24-OCT-2000 13:29 Cal File: D1024CC1.D
 Als bottle: 9 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC013

AKB
10-24-00

Compound Sublist: 1-all.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152		4.585	4.585	(1.000)	126281	40.0000	
* 2 Naphthalene-d8	136		5.802	5.802	(1.000)	472911	40.0000	
* 3 Acenaphthene-d10	164		8.355	8.355	(1.000)	218254	40.0000	
* 4 Phenanthrene-d10	188		11.231	11.231	(1.000)	380791	40.0000	
* 5 Chrysene-d12	240		17.083	17.083	(1.000)	314999	40.0000	
* 6 Perylene-d12	264		20.046	20.046	(1.000)	277401	40.0000	
191 Benzaldehyde	77		4.236	4.236	(0.924)	141910	120.000	66.889
7 Phenol	94		4.357	4.357	(0.950)	540407	120.000	111.24
8 Bis(2-chloroethyl)ether	93		4.417	4.417	(0.963)	458161	120.000	114.10 (M)
9 2-Chlorophenol	128		4.444	4.444	(0.969)	519272	120.000	115.94
10 1,3-Dichlorobenzene	146		4.559	4.559	(0.994)	554123	120.000	116.79
11 1,4-Dichlorobenzene	146		4.599	4.599	(1.003)	543722	120.000	115.62
12 1,2-Dichlorobenzene	146		4.760	4.760	(1.038)	480149	120.000	113.54
189 Benzyl Alcohol	108		4.733	4.733	(1.032)	326083	120.000	116.23
13 2-Methylphenol	108		4.841	4.841	(1.056)	424282	120.000	115.64
14 2,2'-oxybis(1-Chloropropane)	45		4.861	4.861	(1.060)	578103	120.000	111.19
192 Acetophenone	105		4.975	4.975	(1.085)	589297	120.000	113.66
15 4-Methylphenol	108		4.975	4.975	(1.085)	379812	120.000	110.61
16 N-Nitroso-di-n-propylamine	70		5.002	5.002	(1.091)	344866	120.000	118.36
17 Hexachloroethane	117		5.029	5.029	(1.097)	221051	120.000	116.19
18 Nitrobenzene	77		5.123	5.123	(0.883)	475223	120.000	115.29
19 Isophorone	82		5.351	5.351	(0.922)	908916	120.000	117.74
20 2-Nitrophenol	139		5.425	5.425	(0.935)	318951	120.000	120.23
21 2,4-Dimethylphenol	107		5.466	5.466	(0.942)	450146	120.000	117.76
22 Bis(2-chloroethoxy)methane	93		5.566	5.566	(0.959)	529905	120.000	115.94
190 Benzoic acid	122		5.647	5.647	(0.973)	122715	120.000	148.38

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
23 2,4-Dichlorophenol	162	5.667	5.667	(0.977)	402236	120.000	117.40
24 1,2,4-Trichlorobenzene	180	5.755	5.755	(0.992)	424855	120.000	117.46
25 Naphthalene	128	5.828	5.828	(1.005)	1325904	120.000	113.41
26 4-Chloroaniline	127	5.909	5.909	(1.019)	593037	120.000	116.45
193 Caprolactam	113	6.400	6.400	(1.103)	162733	120.000	122.34 (M)
27 Hexachlorobutadiene	225	6.030	6.030	(1.039)	254061	120.000	118.90
28 4-Chloro-3-Methylphenol	107	6.521	6.521	(1.124)	392189	120.000	115.54
29 2-Methylnaphthalene	142	6.682	6.682	(1.152)	805152	120.000	113.90
30 Hexachlorocyclopentadiene	237	7.004	7.004	(0.838)	305784	120.000	121.30
31 2,4,6-Trichlorophenol	196	7.132	7.132	(0.854)	285069	120.000	119.95
32 2,4,5-Trichlorophenol	196	7.199	7.199	(0.862)	304242	120.000	120.94
194 1,1'-Biphenyl	154	7.394	7.394	(0.885)	885689	120.000	114.00
33 2-Chloronaphthalene	162	7.407	7.407	(0.887)	717727	120.000	117.83
34 2-Nitroaniline	65	7.629	7.629	(0.913)	258607	120.000	121.06
35 Dimethylphthalate	163	8.019	8.019	(0.960)	908474	120.000	119.74
36 Acenaphthylene	152	8.093	8.093	(0.969)	1196596	120.000	116.84
37 2,6-Dinitrotoluene	165	8.126	8.126	(0.973)	225452	120.000	121.29
38 3-Nitroaniline	138	8.362	8.362	(1.001)	268463	120.000	121.01
39 Acenaphthene	153	8.422	8.422	(1.008)	734343	120.000	117.57
40 2,4-Dinitrophenol	184	8.536	8.536	(1.022)	155416	120.000	144.30
41 4-Nitrophenol	109	8.704	8.704	(1.042)	119885	120.000	122.87
42 Dibenzofuran	168	8.711	8.711	(1.043)	990528	120.000	115.44
43 2,4-Dinitrotoluene	165	8.845	8.845	(1.059)	308633	120.000	123.82
44 Diethylphthalate	149	9.356	9.356	(1.120)	861524	120.000	116.96
45 4-Chlorophenyl-phenylether	204	9.403	9.403	(1.125)	427579	120.000	120.10
46 Fluorene	166	9.363	9.363	(1.121)	748735	120.000	114.92
47 4-Nitroaniline	138	9.544	9.544	(1.142)	273500	120.000	124.08
48 4,6-Dinitro-2-methylphenol	198	9.618	9.618	(0.856)	196591	120.000	134.44
49 N-Nitrosodiphenylamine (1)	169	9.672	9.672	(0.861)	605176	120.000	117.16
50 4-Bromophenyl-phenylether	248	10.364	10.364	(0.923)	258078	120.000	118.79
51 Hexachlorobenzene	284	10.626	10.626	(0.946)	298875	120.000	117.70
195 Atrazine	200	10.915	10.915	(0.972)	231457	120.000	118.29
53 Pentachlorophenol	266	11.016	11.016	(0.981)	177558	120.000	140.63
54 Phenanthrene	178	11.298	11.298	(1.006)	1084771	120.000	116.10
55 Anthracene	178	11.392	11.392	(1.014)	1082161	120.000	114.35
56 Carbazole	167	11.782	11.782	(1.049)	1030326	120.000	116.51
57 Di-n-Butylphthalate	149	12.816	12.816	(1.141)	1448480	120.000	115.83
58 Fluoranthene	202	13.871	13.871	(1.235)	1157222	120.000	116.15
59 Pyrene	202	14.348	14.348	(0.840)	1124781	120.000	118.88
60 Butylbenzylphthalate	149	16.129	16.129	(0.944)	609381	120.000	121.28
61 3,3'-Dichlorobenzidine	252	17.123	17.123	(1.002)	397001	120.000	119.02
62 Benzo(a)Anthracene	228	17.050	17.050	(0.998)	1017266	120.000	120.57
63 Chrysene	228	17.157	17.157	(1.004)	909793	120.000	118.44
64 bis(2-ethylhexyl)Phthalate	149	17.547	17.547	(1.027)	832010	120.000	119.91
65 Di-n-octylphthalate	149	18.870	18.870	(0.941)	1413866	120.000	118.26
66 Benzo(b)fluoranthene	252	19.361	19.361	(0.966)	1211976	120.000	132.35
67 Benzo(k)fluoranthene	252	19.408	19.408	(0.968)	804252	120.000	104.26 (M)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
68 Benzo(a)pyrene	252	19.952	19.952	(0.995)	920282	120.000	120.27
69 Indeno(1,2,3-cd)pyrene	276	21.941	21.941	(1.095)	969729	120.000	124.50
70 Dibenz(a,h)anthracene	278	21.995	21.995	(1.097)	969754	120.000	123.90
71 Benzo(g,h,i)perylene	276	22.364	22.364	(1.116)	1002820	120.000	125.22
\$ 72 Nitrobenzene-d5	82	5.110	5.110	(0.881)	503341	120.000	115.00
\$ 73 2-Fluorobiphenyl	172	7.253	7.253	(0.868)	860579	120.000	117.23
\$ 74 Terphenyl-d14	244	14.846	14.846	(0.869)	898052	120.000	118.24
\$ 75 Phenol-d5	99	4.350	4.350	(0.949)	543119	120.000	113.05
\$ 76 2-Fluorophenol	112	3.530	3.530	(0.770)	524769	120.000	117.69
\$ 77 2,4,6-Tribromophenol	330	9.873	9.873	(0.879)	180534	120.000	120.08
\$ 78 2-Chlorophenol-d4	132	4.431	4.431	(0.966)	473271	120.000	114.42
\$ 79 1,2-Dichlorobenzene-d4	152	4.747	4.747	(1.035)	311318	120.000	111.17

QC Flag Legend

M - Compound response manually integrated.

Data File Name: D1024CC4.D

Inj. Date and Time: 24-OCT-2000 15:27

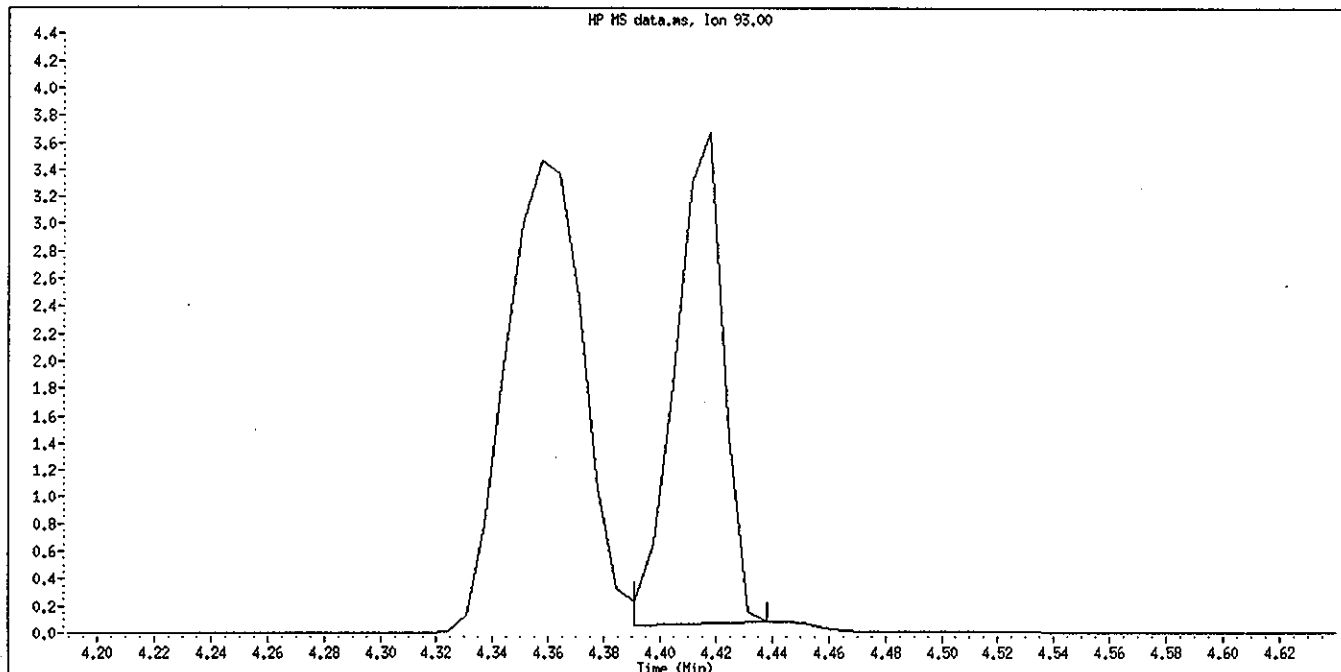
Instrument ID: 721.i

Client ID: SSTD120

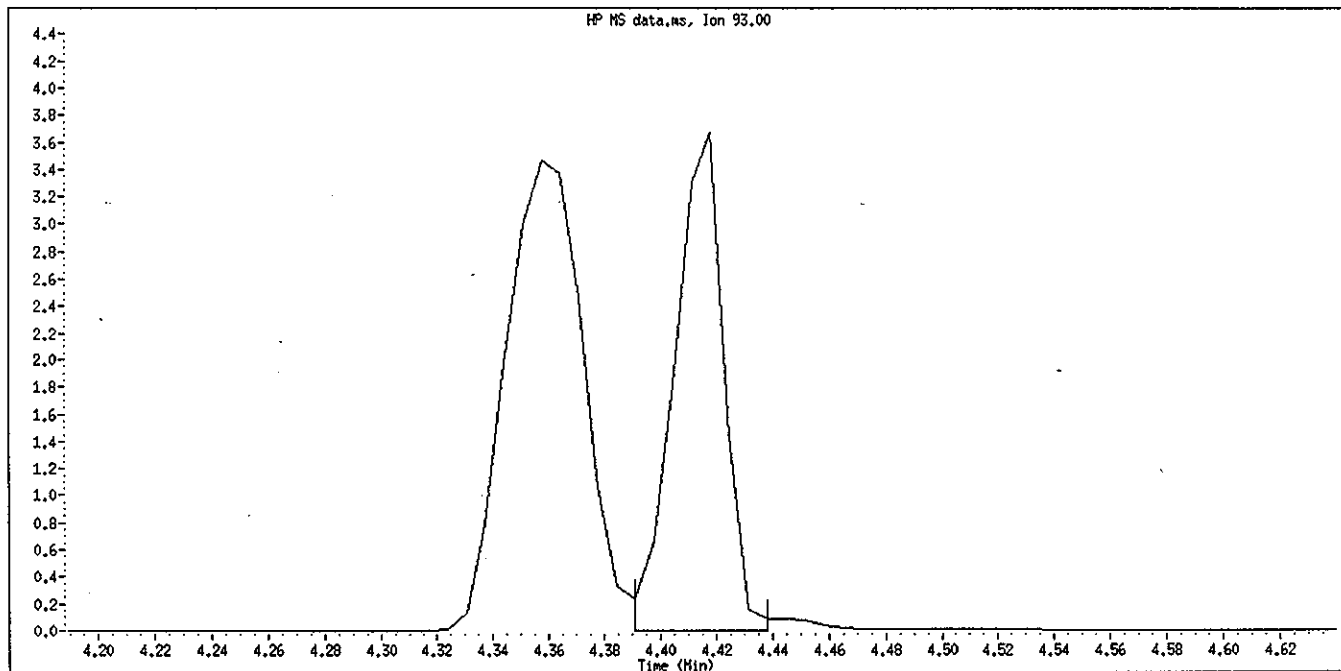
Compound Name: Bis(2-chloroethyl)ether

CAS #: 111-44-4

Report Date: 10/24/2000



Original Integration

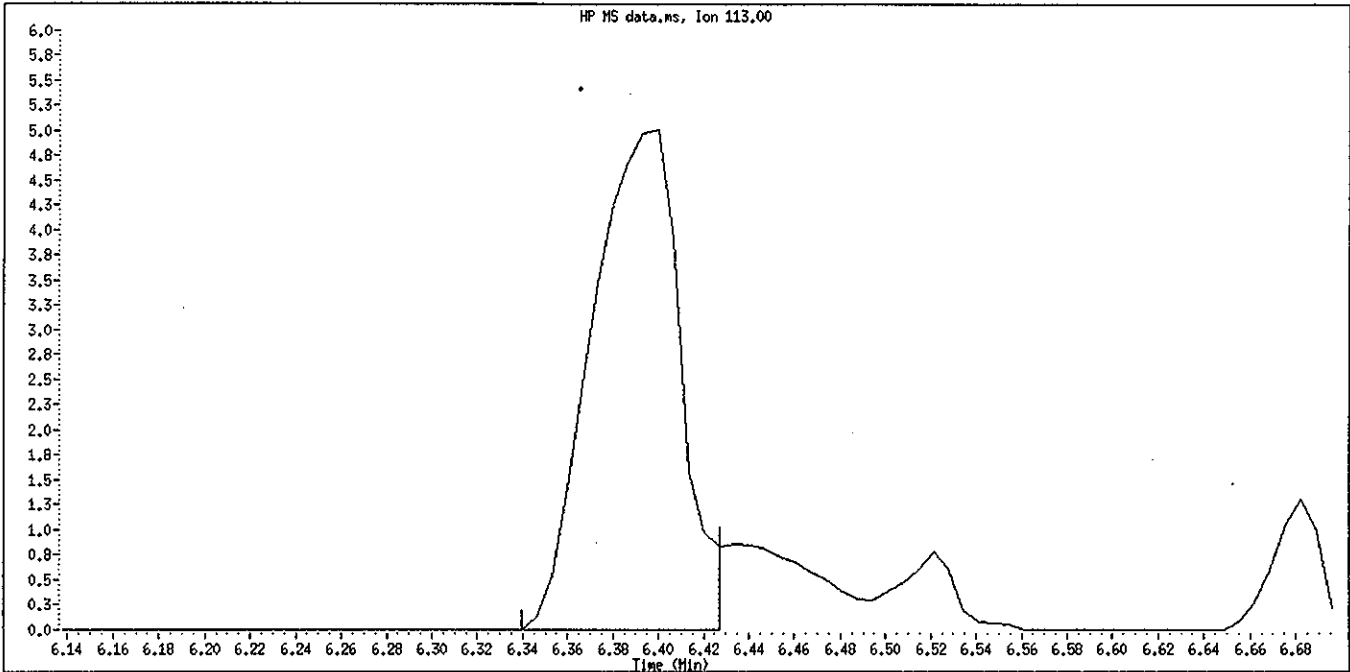


Manual Integration

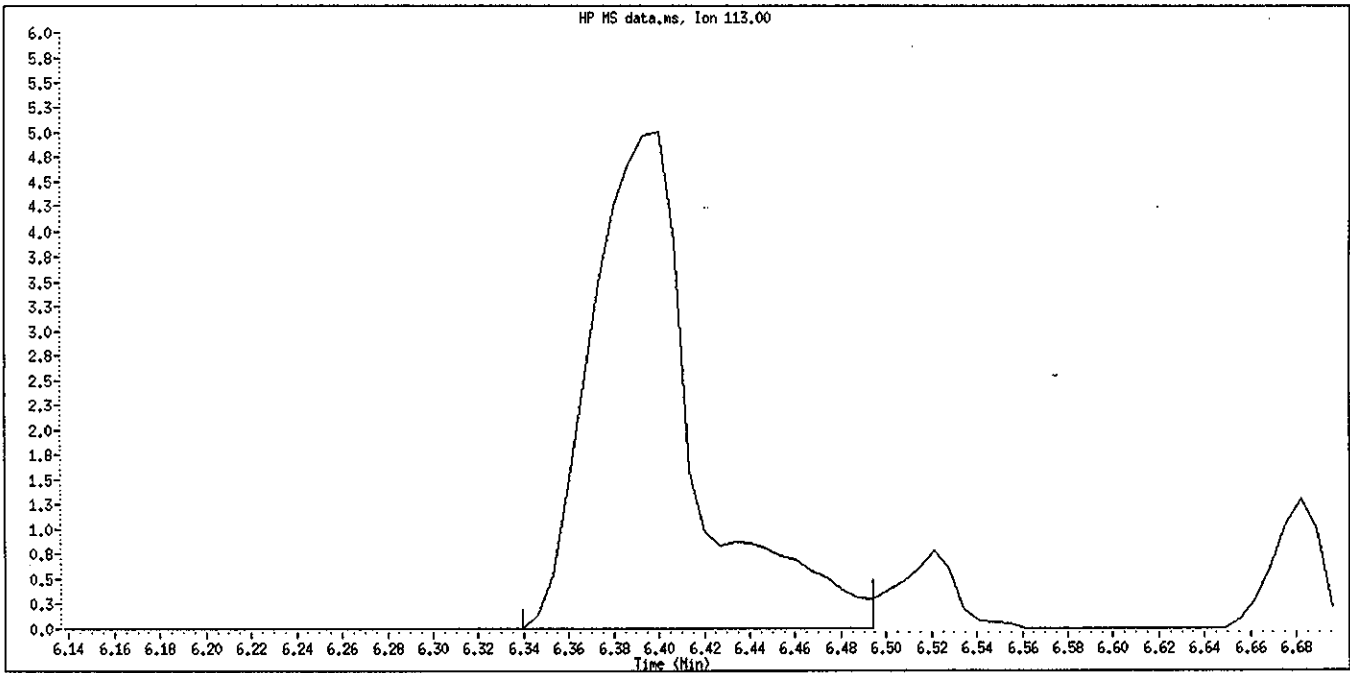
Manually Integrated By: FergusonD

Manual Integration Reason: Poor Chromatography

Data File Name: D1024CC4.D
Inj. Date and Time: 24-OCT-2000 15:27
Instrument ID: 721.i
Client ID: SSTD120
Compound Name: Caprolactam
CAS #: 105-60-2
Report Date: 10/24/2000



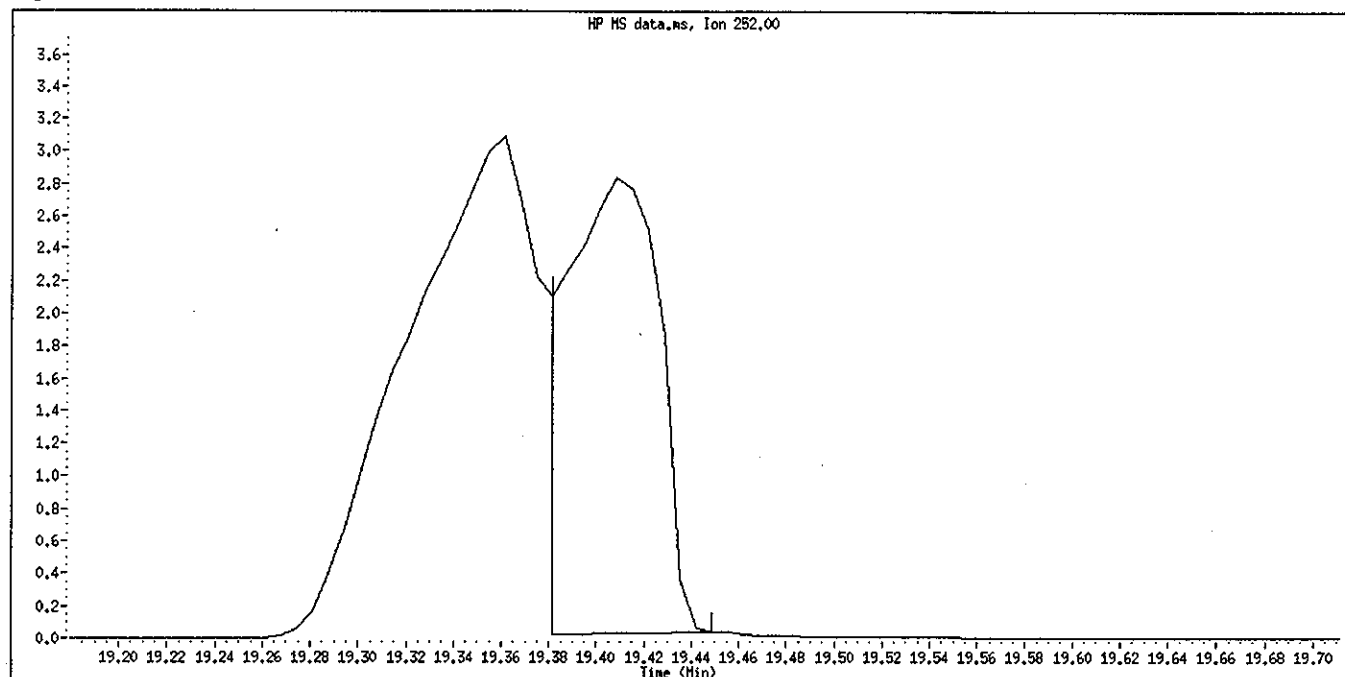
Original Integration



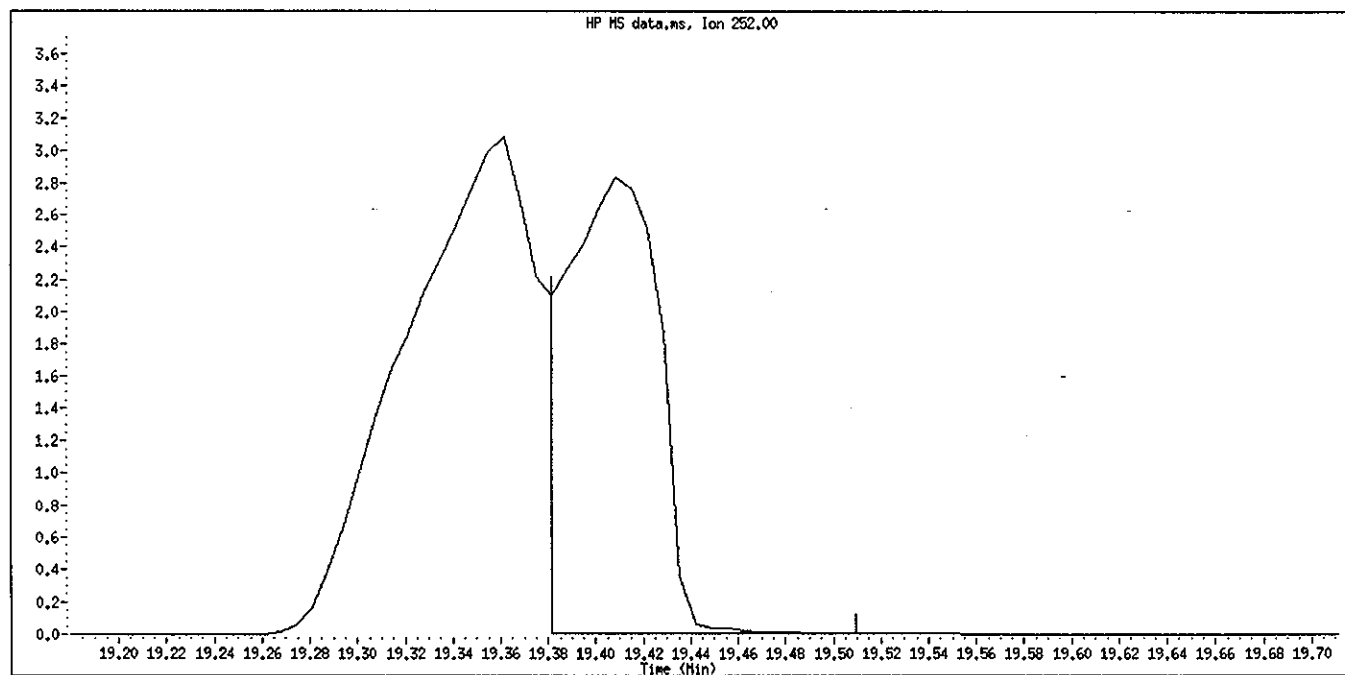
Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File Name: D1024CC4.D
Inj. Date and Time: 24-OCT-2000 15:27
Instrument ID: 721.i
Client ID: SSTD120
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 10/24/2000

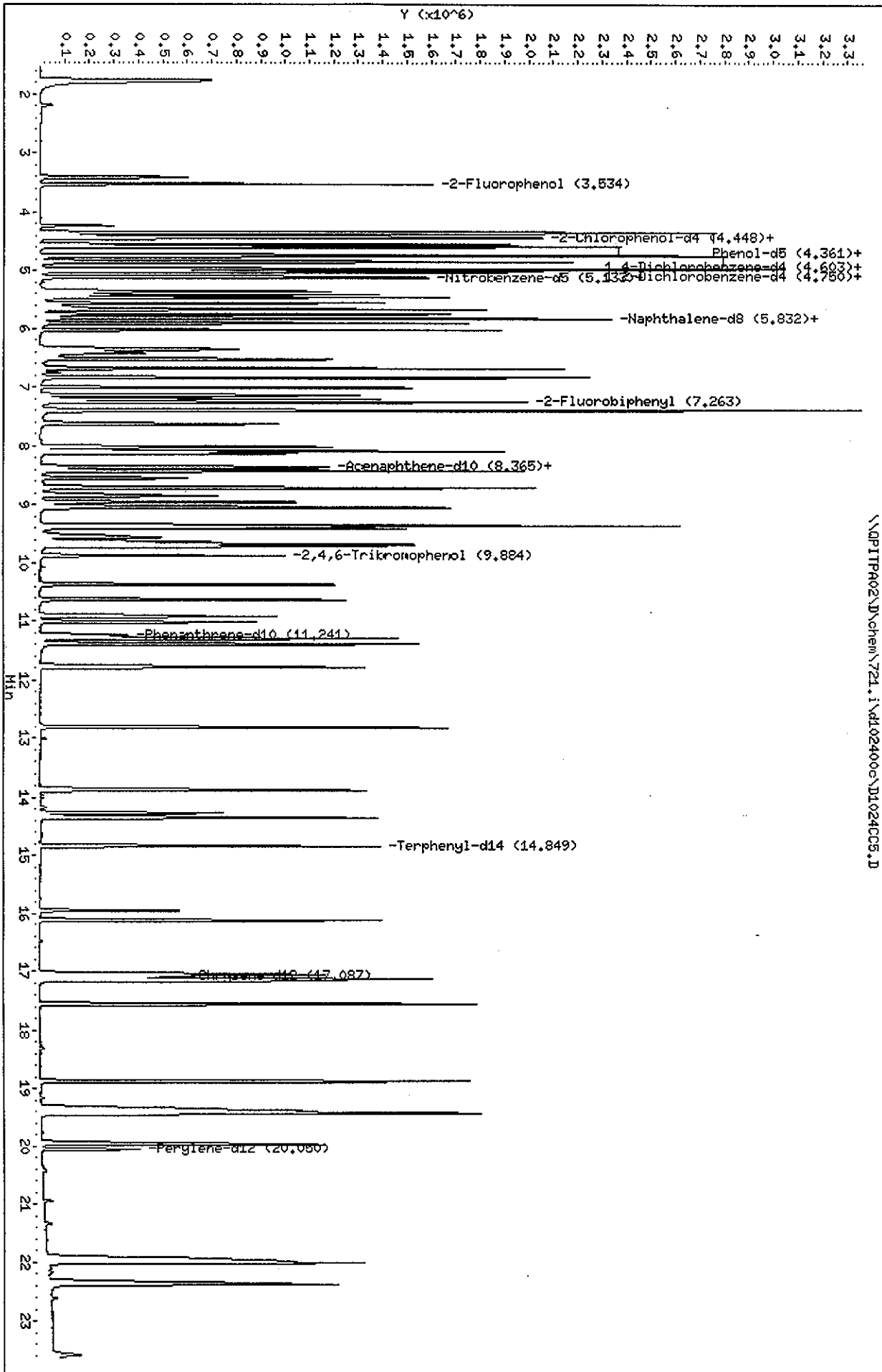


Original Integration



Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography



STL-Pittsburgh

Semivolatile REPORT CLP3.2

Data file : \\QPITPA02\D\chem\721.i\d102400c\D1024CC5.D
 Lab Smp Id: sstd160 Client Smp ID: SSTD160
 Inj Date : 24-Oct-2000 15:57
 Operator : 001562, DLF Inst ID: 721.i
 Smp Info : SSTD160 (80ug/ml) 77-01-9 8270/clp/625
 Misc Info : sstd160,d102400c.b,clp.m,1-all.sub,1,5
 Comment :
 Method : \\QPITPA02\D\chem\721.i\d102400c\clp.m
 Meth Date : 24-Oct-2000 17:50 ferguson Quant Type: ISTD
 Cal Date : 24-OCT-2000 15:57 Cal File: D1024CC5.D
 Als bottle: 10 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC013

DKA
10-24-00

Compound Sublist: 1-all.sub

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152			4.589	4.589	(1.000)	123012	40.0000	
* 2 Naphthalene-d8	136			5.805	5.805	(1.000)	461753	40.0000	
* 3 Acenaphthene-d10	164			8.358	8.358	(1.000)	209810	40.0000	
* 4 Phenanthrene-d10	188			11.241	11.241	(1.000)	361405	40.0000	
* 5 Chrysene-d12	240			17.086	17.086	(1.000)	302524	40.0000	
* 6 Perylene-d12	264			20.056	20.056	(1.000)	274472	40.0000	
191 Benzaldehyde	77			4.232	4.232	(0.922)	100396	160.000	48.579
7 Phenol	94			4.367	4.367	(0.952)	669257	160.000	141.42
8 Bis(2-chloroethyl) ether	93			4.421	4.421	(0.963)	571988	160.000	146.23 (M)
9 2-Chlorophenol	128			4.454	4.454	(0.971)	649419	160.000	148.85
10 1,3-Dichlorobenzene	146			4.562	4.562	(0.994)	699402	160.000	151.33
11 1,4-Dichlorobenzene	146			4.602	4.602	(1.003)	679276	160.000	148.29
12 1,2-Dichlorobenzene	146			4.763	4.763	(1.038)	598487	160.000	145.29
189 Benzyl Alcohol	108			4.736	4.736	(1.032)	396651	160.000	145.14
13 2-Methylphenol	108			4.844	4.844	(1.056)	527332	160.000	147.54
14 2,2'-oxybis(1-Chloropropane)	45			4.864	4.864	(1.060)	702410	160.000	138.69
192 Acetophenone	105			4.978	4.978	(1.085)	733904	160.000	145.31
15 4-Methylphenol	108			4.978	4.978	(1.085)	473857	160.000	141.67
16 N-Nitroso-di-n-propylamine	70			5.019	5.019	(1.094)	412843	160.000	145.46
17 Hexachloroethane	117			5.032	5.032	(1.097)	264081	160.000	142.50
18 Nitrobenzene	77			5.133	5.133	(0.884)	594535	160.000	147.72
19 Isophorone	82			5.361	5.361	(0.924)	1182553	160.000	156.89
20 2-Nitrophenol	139			5.429	5.429	(0.935)	394270	160.000	152.21
21 2,4-Dimethylphenol	107			5.469	5.469	(0.942)	571038	160.000	153.00
22 Bis(2-chloroethoxy)methane	93			5.570	5.570	(0.959)	666037	160.000	149.25
190 Benzoic acid	122			5.670	5.670	(0.977)	183319	160.000	227.02 (A)

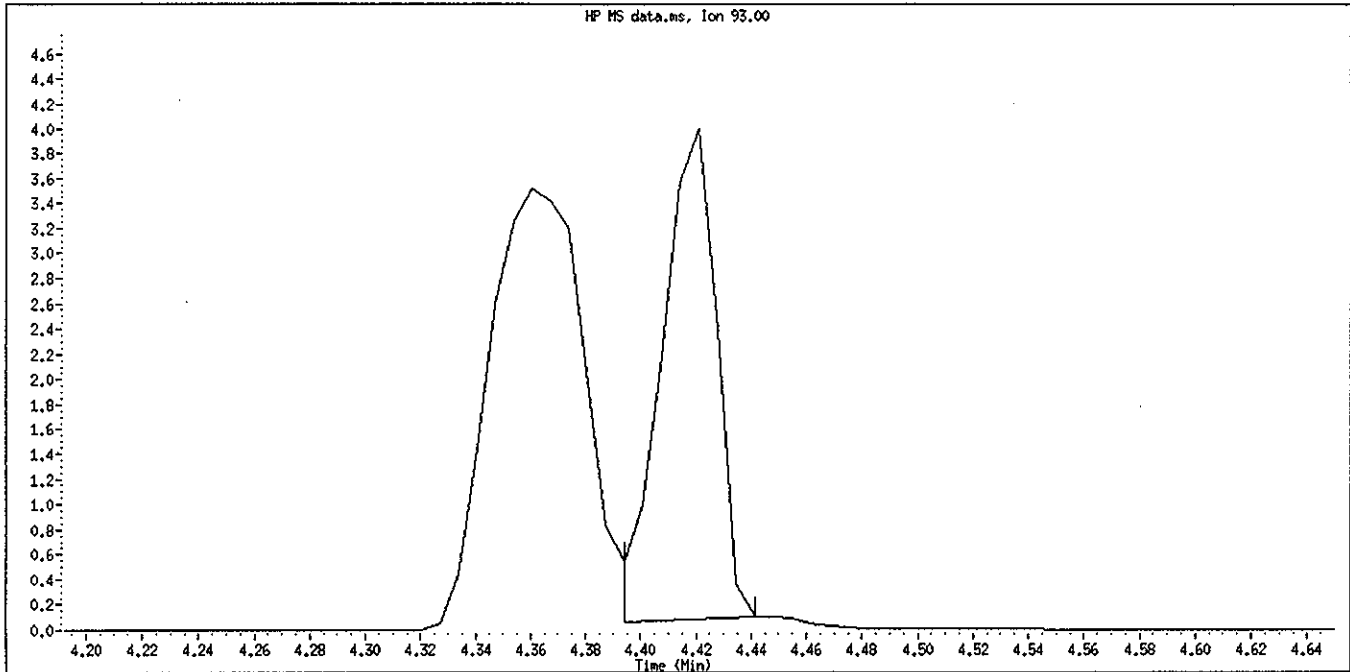
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
23 2,4-Dichlorophenol	162	5.677	5.677	(0.978)	501608	160.000	149.94
24 1,2,4-Trichlorobenzene	180	5.758	5.758	(0.992)	532382	160.000	150.74
25 Naphthalene	128	5.832	5.832	(1.005)	1652580	160.000	144.77
26 4-Chloroaniline	127	5.912	5.912	(1.019)	718409	160.000	144.48
193 Caprolactam	113	6.423	6.423	(1.106)	200251	160.000	154.18 (M)
27 Hexachlorobutadiene	225	6.027	6.027	(1.038)	315293	160.000	151.12
28 4-Chloro-3-Methylphenol	107	6.530	6.530	(1.125)	502552	160.000	151.63
29 2-Methylnaphthalene	142	6.685	6.685	(1.152)	1003925	160.000	145.45
30 Hexachlorocyclopentadiene	237	7.008	7.008	(0.838)	385323	160.000	159.00
31 2,4,6-Trichlorophenol	196	7.142	7.142	(0.855)	367983	160.000	161.07 (A)
32 2,4,5-Trichlorophenol	196	7.209	7.209	(0.863)	373763	160.000	154.55
194 1,1'-Biphenyl	154	7.404	7.404	(0.886)	1114318	160.000	149.20
33 2-Chloronaphthalene	162	7.411	7.411	(0.887)	895245	160.000	152.89
34 2-Nitroaniline	65	7.639	7.639	(0.914)	325360	160.000	158.44
35 Dimethylphthalate	163	8.022	8.022	(0.960)	1145838	160.000	157.11
36 Acenaphthylene	152	8.096	8.096	(0.969)	1494402	160.000	151.79
37 2,6-Dinitrotoluene	165	8.130	8.130	(0.973)	284343	160.000	159.12
38 3-Nitroaniline	138	8.372	8.372	(1.002)	340332	160.000	159.57
39 Acenaphthene	153	8.432	8.432	(1.009)	918865	160.000	153.04
40 2,4-Dinitrophenol	184	8.553	8.553	(1.023)	208408	160.000	201.29 (A)
41 4-Nitrophenol	109	8.728	8.728	(1.044)	149714	160.000	159.62
42 Dibenzofuran	168	8.721	8.721	(1.043)	1246752	160.000	151.14
43 2,4-Dinitrotoluene	165	8.855	8.855	(1.059)	387687	160.000	161.80 (A)
44 Diethylphthalate	149	9.366	9.366	(1.121)	1070408	160.000	151.17
45 4-Chlorophenyl-phenylether	204	9.406	9.406	(1.125)	520535	160.000	152.09
46 Fluorene	166	9.373	9.373	(1.121)	925274	160.000	147.73
47 4-Nitroaniline	138	9.574	9.574	(1.145)	346458	160.000	163.50 (A)
48 4,6-Dinitro-2-methylphenol	198	9.641	9.641	(0.858)	256014	160.000	184.47 (A)
49 N-Nitrosodiphenylamine (1)	169	9.682	9.682	(0.861)	732449	160.000	149.41
50 4-Bromophenyl-phenylether	248	10.374	10.374	(0.923)	322574	160.000	156.44
51 Hexachlorobenzene	284	10.629	10.629	(0.946)	379112	160.000	157.30
195 Atrazine	200	10.925	10.925	(0.972)	289133	160.000	155.69
53 Pentachlorophenol	266	11.019	11.019	(0.980)	234828	160.000	195.96 (A)
54 Phenanthrene	178	11.301	11.301	(1.005)	1350449	160.000	152.28
55 Anthracene	178	11.402	11.402	(1.014)	1345835	160.000	149.84
56 Carbazole	167	11.792	11.792	(1.049)	1292810	160.000	154.03
57 Di-n-Butylphthalate	149	12.820	12.820	(1.140)	1779439	160.000	149.93
58 Fluoranthene	202	13.881	13.881	(1.235)	1433343	160.000	151.58
59 Pyrene	202	14.358	14.358	(0.840)	1408950	160.000	155.06
60 Butylbenzylphthalate	149	16.132	16.132	(0.944)	760548	160.000	157.61
61 3,3'-Dichlorobenzidine	252	17.133	17.133	(1.003)	487379	160.000	152.14
62 Benzo (a) Anthracene	228	17.059	17.059	(0.998)	1277430	160.000	157.65
63 Chrysene	228	17.167	17.167	(1.005)	1138550	160.000	154.33
64 bis(2-ethylhexyl) Phthalate	149	17.557	17.557	(1.028)	1047941	160.000	157.26
65 Di-n-octylphthalate	149	18.880	18.880	(0.941)	1760038	160.000	148.79
66 Benzo (b) fluoranthene	252	19.378	19.378	(0.966)	1576192	160.000	173.96 (A)
67 Benzo (k) fluoranthene	252	19.431	19.431	(0.969)	978592	160.000	128.22 (M)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
68 Benzo(a)pyrene	252	19.969	19.969	(0.996)	1179990	160.000	155.85
69 Indeno(1,2,3-cd)pyrene	276	21.958	21.958	(1.095)	1421070	160.000	184.40 (A)
70 Dibenz(a,h)anthracene	278	22.012	22.012	(1.097)	1285517	160.000	166.00 (A)
71 Benzo(g,h,i)perylene	276	22.381	22.381	(1.116)	1367528	160.000	172.58 (A)
\$ 72 Nitrobenzene-d5	82	5.113	5.113	(0.881)	634865	160.000	148.55
\$ 73 2-Fluorobiphenyl	172	7.263	7.263	(0.869)	1066054	160.000	151.06
\$ 74 Terphenyl-d14	244	14.849	14.849	(0.869)	1120799	160.000	153.66
\$ 75 Phenol-d5	99	4.353	4.353	(0.949)	662737	160.000	141.61
\$ 76 2-Fluorophenol	112	3.534	3.534	(0.770)	660256	160.000	152.01
\$ 77 2,4,6-Tribromophenol	330	9.883	9.883	(0.879)	222646	160.000	156.04
\$ 78 2-Chlorophenol-d4	132	4.434	4.434	(0.966)	590851	160.000	146.64
\$ 79 1,2-Dichlorobenzene-d4	152	4.750	4.750	(1.035)	388190	160.000	142.30

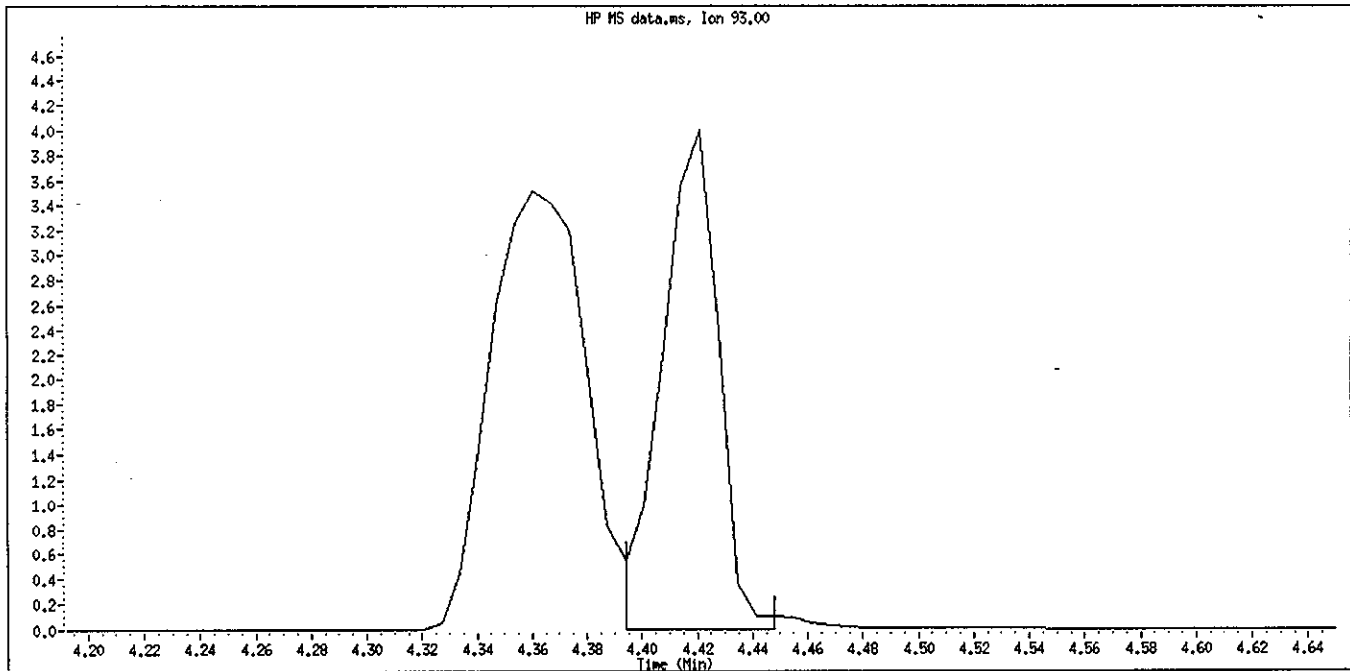
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File Name: D1024CC5.D
Inj. Date and Time: 24-OCT-2000 15:57
Instrument ID: 721.i
Client ID: SSTD160
Compound Name: Bis(2-chloroethyl)ether
CAS #: 111-44-4
Report Date: 10/24/2000



Original Integration



Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File Name: D1024CC5.D

Inj. Date and Time: 24-OCT-2000 15:57

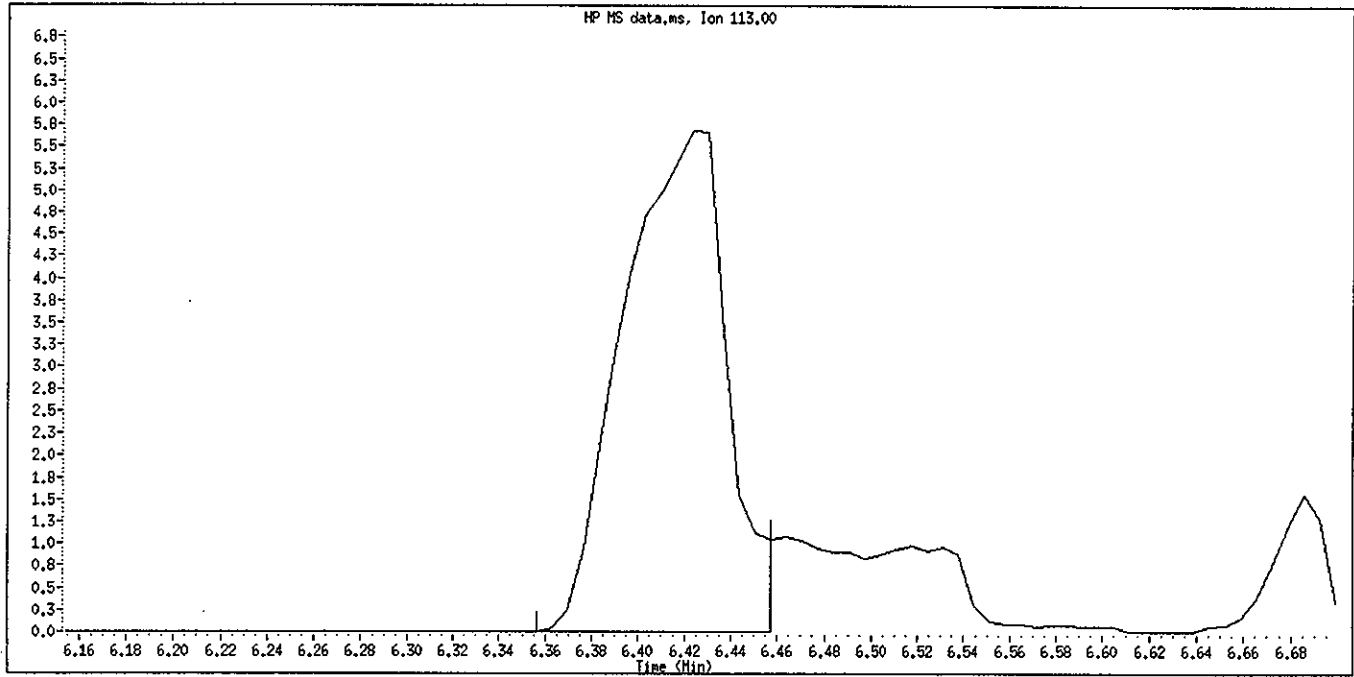
Instrument ID: 721.i

Client ID: SSTD160

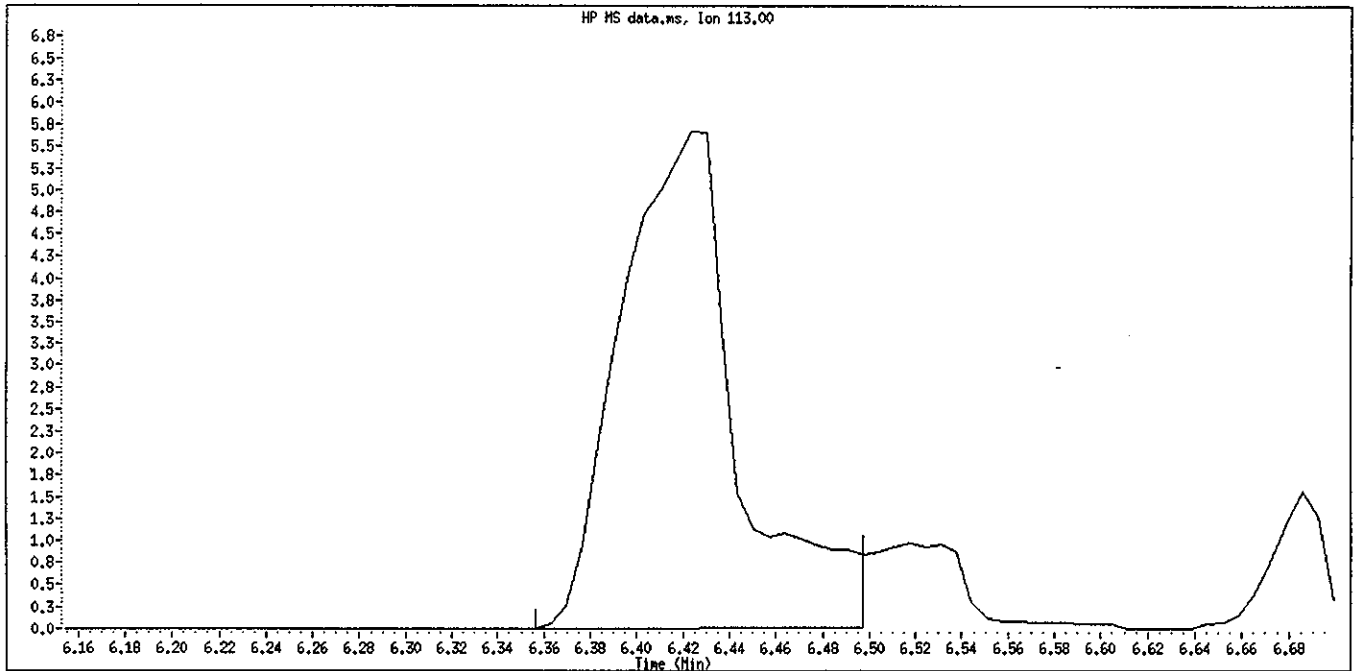
Compound Name: Caprolactam

CAS #: 105-60-2

Report Date: 10/24/2000



Original Integration

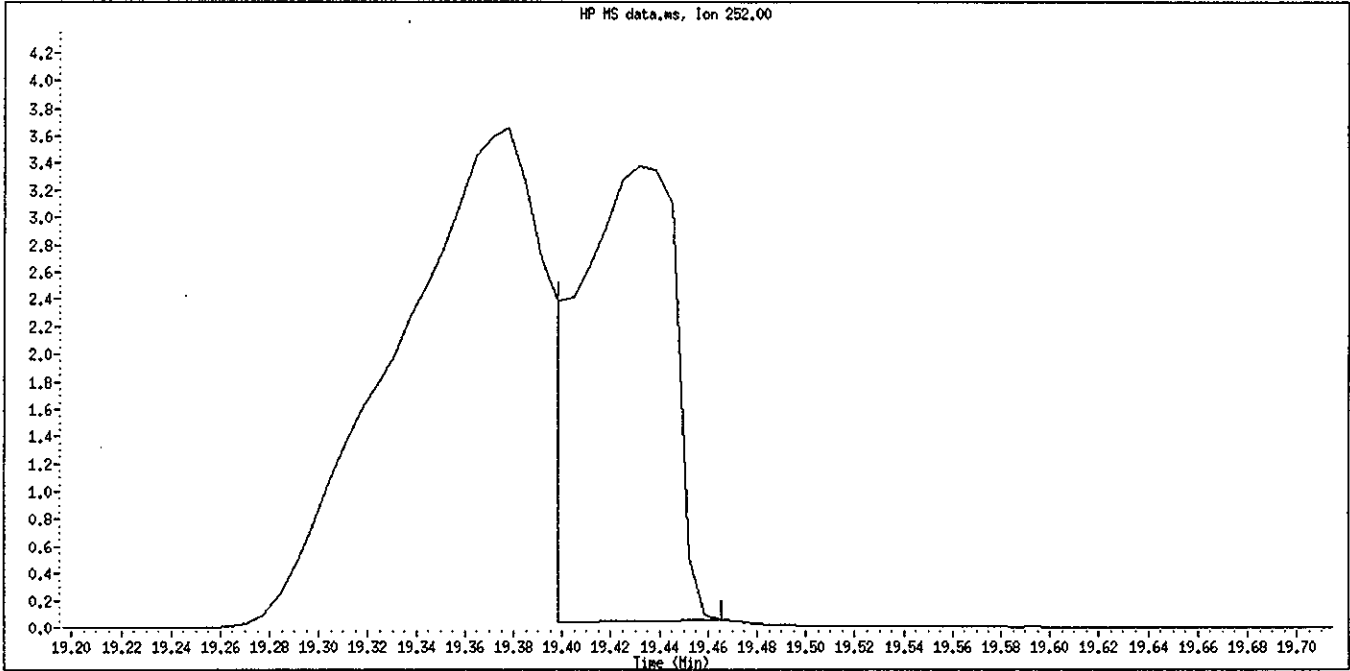


Manual Integration

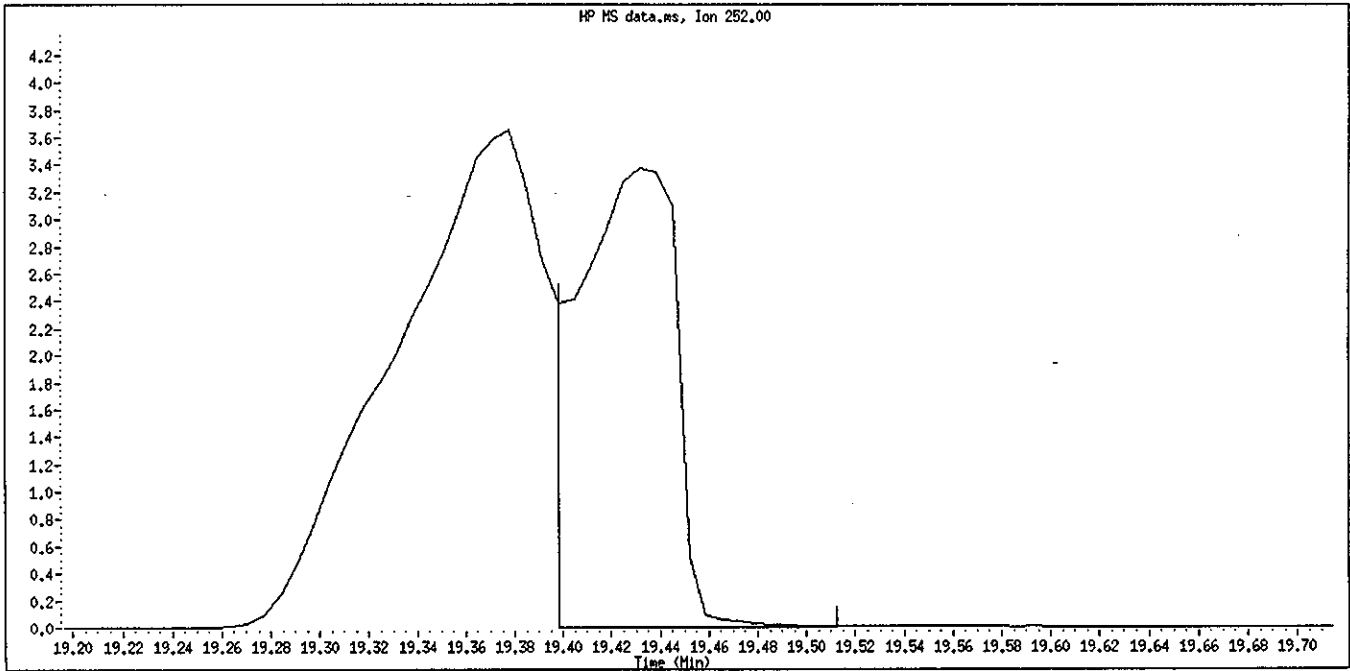
Manually Integrated By: FergusonD

Manual Integration Reason: Poor Chromatography

Data File Name: D1024CC5.D
Inj. Date and Time: 24-OCT-2000 15:57
Instrument ID: 721.i
Client ID: SSTD160
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 10/24/2000



Original Integration



Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:
 Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J240227
 Instrument ID: 721 Calibration Date: 10/26/00 Time: 1507
 Lab File ID: D1026CC3 Init. Calib. Date(s): 10/24/00 10/24/00
 EPA Sample No. (SSTD050##): SSTD50 Init. Calib. Times: 1329 1557
 GC Column: ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.538	1.699	0.800	10.5	25.0
Bis(2-chloroethyl) ether	1.272	1.373	0.700	7.9	25.0
2-Chlorophenol	1.419	1.476	0.800	4.0	25.0
2-Methylphenol	1.162	1.237	0.700	6.4	25.0
2,2'-oxybis(1-Chloropropane)	1.647	1.876		13.9	
N-Nitroso-di-n-propylamine	0.923	1.017	0.500	10.2	25.0
4-Methylphenol	1.087	1.209	0.600	11.2	25.0
Hexachloroethane	0.603	0.622	0.300	3.2	25.0
Nitrobenzene	0.349	0.368	0.200	5.4	25.0
Isophorone	0.653	0.678	0.400	3.8	25.0
2-Nitrophenol	0.224	0.228	0.100	1.8	25.0
2,4-Dimethylphenol	0.323	0.330	0.200	2.2	25.0
Bis(2-chloroethoxy)methane	0.387	0.412	0.300	6.4	25.0
2,4-Dichlorophenol	0.290	0.299	0.200	3.1	25.0
Naphthalene	0.989	1.031	0.700	4.2	25.0
4-Chloroaniline	0.431	0.446		3.5	
Hexachlorobutadiene	0.181	0.177		-2.2	
4-Chloro-3-Methylphenol	0.287	0.304	0.200	5.9	25.0
2-Methylnaphthalene	0.598	0.641	0.400	7.2	25.0
Hexachlorocyclopentadiene	0.462	0.447		-3.2	
2,4,6-Trichlorophenol	0.435	0.434	0.200	-0.2	25.0
2,4,5-Trichlorophenol	0.461	0.473	0.200	2.6	25.0
2-Chloronaphthalene	1.116	1.142	0.800	2.3	25.0
2-Nitroaniline	0.392	0.410		4.6	
Dimethylphthalate	1.390	1.431		2.9	
Acenaphthylene	1.877	1.942	0.900	3.5	25.0
2,6-Dinitrotoluene	0.341	0.357	0.200	4.7	25.0
3-Nitroaniline	0.407	0.433		6.4	
Acenaphthene	1.145	1.174	0.900	2.5	25.0
2,4-Dinitrophenol	0.197	0.238		20.8	
4-Nitrophenol	0.179	0.192		7.3	
Dibenzofuran	1.573	1.629	0.800	3.6	25.0
2,4-Dinitrotoluene	0.457	0.484	0.200	5.9	25.0
Diethylphthalate	1.350	1.437		6.4	
4-Chlorophenyl-phenylether	0.652	0.676	0.400	3.7	25.0
Fluorene	1.194	1.283	0.900	7.4	25.0

All other compounds must meet a minimum RRF of 0.010.

7D
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:
 Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J240227
 Instrument ID: 721 Calibration Date: 10/26/00 Time: 1507
 Lab File ID: D1026CC3 Init. Calib. Date(s): 10/24/00 10/24/00
 EPA Sample No. (SSTD050##): SSTD50 Init. Calib. Times: 1329 1557
 GC Column: ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
4-Nitroaniline	0.404	0.433		7.2	
4,6-Dinitro-2-methylphenol	0.153	0.178		16.3	
N-Nitrosodiphenylamine (1)	0.543	0.561		3.3	
4-Bromophenyl-phenylether	0.228	0.235	0.100	3.1	25.0
Hexachlorobenzene	0.267	0.277	0.100	3.7	25.0
Pentachlorophenol	0.132	0.166	0.050	25.8	25.0
Phenanthrene	0.982	1.008	0.700	2.6	25.0
Anthracene	0.994	1.059	0.700	6.5	25.0
Carbazole	0.929	0.988		6.4	
Di-n-Butylphthalate	1.314	1.381		5.1	
Fluoranthene	1.047	1.150	0.600	9.8	25.0
Pyrene	1.201	1.151	0.600	-4.2	25.0
Butylbenzylphthalate	0.638	0.614		-3.8	
3,3'-Dichlorobenzidine	0.423	0.463		9.4	
Benzo (a) Anthracene	1.071	1.088	0.800	1.6	25.0
Chrysene	0.976	0.977	0.700	0.1	25.0
bis (2-ethylhexyl) Phthalate	0.881	0.866		-1.7	
Di-n-octylphthalate	1.724	1.637		-5.0	
Benzo (b) fluoranthene	1.321	1.243	0.700	-5.9	25.0
Benzo (k) fluoranthene	1.112	1.157	0.700	4.0	25.0
Benzo (a) pyrene	1.104	1.098	0.700	-0.5	25.0
Indeno (1,2,3-cd) pyrene	1.123	1.069	0.500	-4.8	25.0
Dibenz (a,h) anthracene	1.129	1.119	0.400	-0.9	25.0
Benzo (g,h,i) perylene	1.155	1.104	0.500	-4.4	25.0
Benzaldehyde	0.672	0.876		30.4	
Acetophenone	1.643	1.780		8.3	
Caprolactam	0.112	0.122		8.9	
1,1'-Biphenyl	1.424	1.468		3.1	
Atrazine	0.206	0.201		-2.4	
Nitrobenzene-d5	0.370	0.395	0.200	6.8	25.0
2-Fluorobiphenyl	1.345	1.408	0.700	4.7	25.0
Terphenyl-d14	0.964	0.971	0.500	0.7	25.0
Phenol-d5	1.522	1.746	0.800	14.7	25.0
2-Fluorophenol	1.412	1.447	0.600	2.5	25.0
2,4,6-Tribromophenol	0.158	0.172		8.9	
2-Chlorophenol-d4	1.310	1.424	0.800	8.7	25.0
1,2-Dichlorobenzene-d4	0.887	0.971	0.400	9.5	25.0

<-

(1) Cannot be separated from Diphenylamine
 All other compounds must meet a minimum RRF of 0.010.

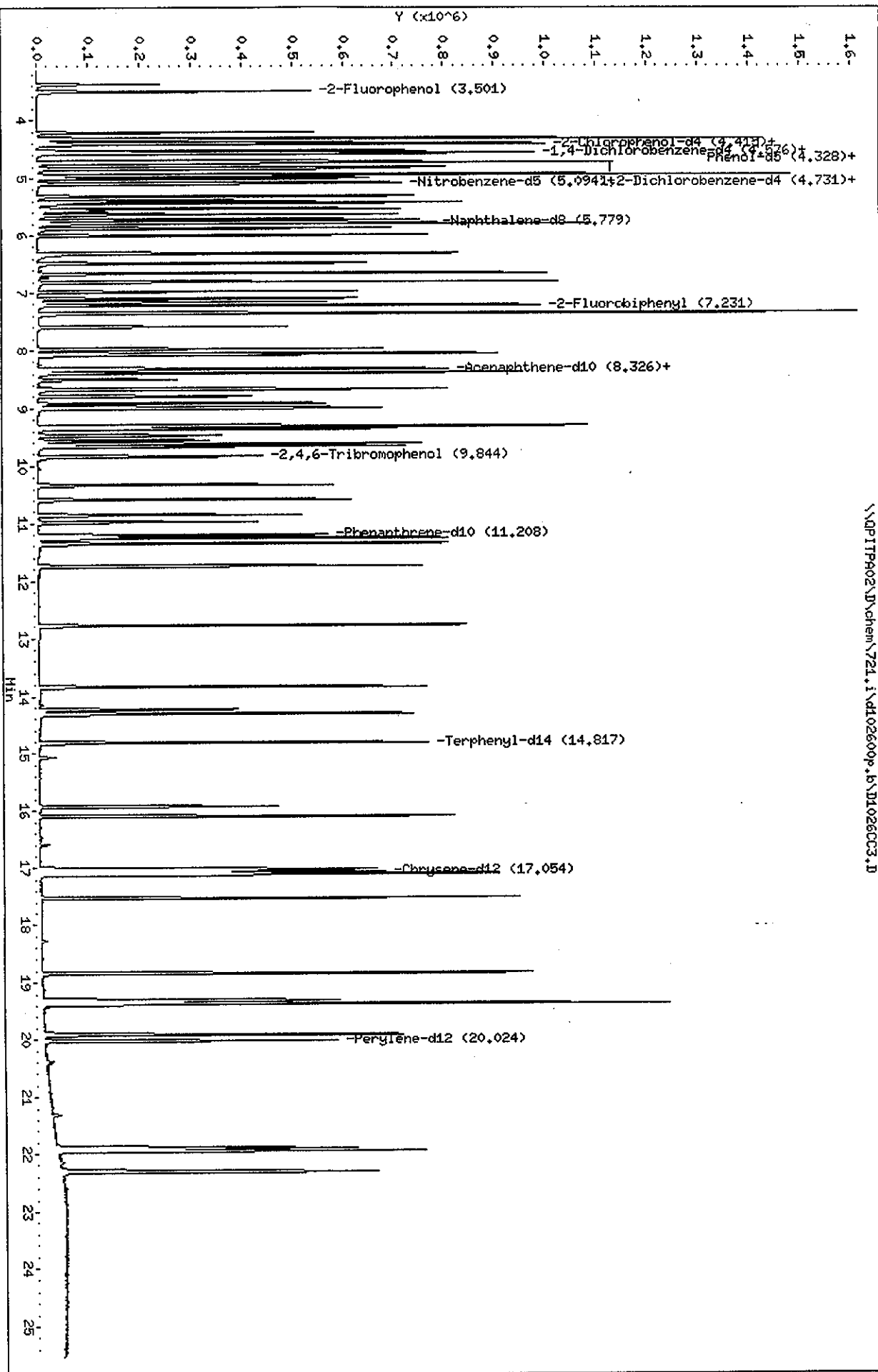
FORM VII SV-2

OLM04.2

Data File: \\QPI1P902\chem\721.i\dl102600p.b\dl1026003.D
Date: 26-OCT-2000 15:07
Client ID: SST050
Sample Info: SST050 (25ug/ml) 77-03-1 8270/olp/625
Column phase:

Instrument: 721.i
Operator: 001562, DLF
Column diameter: 0.25

\\QPI1P902\chem\721.i\dl102600p.b\dl1026003.D



STL-Pittsburgh

Semivolatiles REPORT CLP3.2

Data file : \\QPITPA02\D\chem\721.i\d102600p.b\D1026CC3.D
 Lab Smp Id: sstd50 Client Smp ID: SSTD50
 Inj Date : 26-OCT-2000 15:07
 Operator : 001562, DLF Inst ID: 721.i
 Smp Info : SSTD050 (25ug/ml) 77-03-1 8270/clp/625
 Misc Info : sstd50,d102600p.b,clp.m,1-all.sub,2
 Comment :
 Method : \\QPITPA02\D\chem\721.i\d102600p.b\clp.m
 Meth Date : 26-Oct-2000 15:44 ferguson Quant Type: ISTD
 Cal Date : 24-OCT-2000 15:57 Cal File: D1024CC5.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC013

DLB
10-26-00

Compound Sublist: 1-all.sub

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.562	4.562	(1.000)	131693	40.0000	
* 2 Naphthalene-d8	136	5.779	5.779	(1.000)	513728	40.0000	
* 3 Acenaphthene-d10	164	8.332	8.332	(1.000)	255228	40.0000	
* 4 Phenanthrene-d10	188	11.208	11.208	(1.000)	452256	40.0000	
* 5 Chrysene-d12	240	17.054	17.054	(1.000)	443796	40.0000	
* 6 Perylene-d12	264	20.023	20.023	(1.000)	405513	40.0000	
191 Benzaldehyde	77	4.213	4.213	(0.923)	144200	50.0000	65.176
7 Phenol	94	4.327	4.327	(0.948)	279759	50.0000	55.221
8 Bis(2-chloroethyl) ether	93	4.388	4.388	(0.962)	226063	50.0000	53.985
9 2-Chlorophenol	128	4.421	4.421	(0.969)	243049	50.0000	52.036
10 1,3-Dichlorobenzene	146	4.536	4.536	(0.994)	254144	50.0000	51.364
11 1,4-Dichlorobenzene	146	4.576	4.576	(1.003)	257194	50.0000	52.445
12 1,2-Dichlorobenzene	146	4.737	4.737	(1.038)	234868	50.0000	53.257
189 Benzyl Alcohol	108	4.704	4.704	(1.031)	166364	50.0000	56.863
13 2-Methylphenol	108	4.818	4.818	(1.056)	203582	50.0000	53.205
14 2,2'-oxybis(1-Chloropropane)	45	4.838	4.838	(1.060)	308802	50.0000	56.955
192 Acetophenone	105	4.945	4.945	(1.084)	292941	50.0000	54.177
15 4-Methylphenol	108	4.939	4.939	(1.082)	199040	50.0000	55.584
16 N-Nitroso-di-n-propylamine	70	4.966	4.966	(1.088)	167390	50.0000	55.088
17 Hexachloroethane	117	5.006	5.006	(1.097)	102468	50.0000	51.646
18 Nitrobenzene	77	5.093	5.093	(0.881)	236219	50.0000	52.756
19 Isophorone	82	5.315	5.315	(0.920)	435625	50.0000	51.947
20 2-Nitrophenol	139	5.402	5.402	(0.935)	146587	50.0000	50.867
21 2,4-Dimethylphenol	107	5.436	5.436	(0.941)	212274	50.0000	51.122
22 Bis(2-chloroethoxy)methane	93	5.537	5.537	(0.958)	264624	50.0000	53.298
190 Benzoic acid	122	5.584	5.584	(0.966)	94752	50.0000	105.47

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
23 2,4-Dichlorophenol	162	5.638	5.638	(0.976)	191824	50.0000	51.539
24 1,2,4-Trichlorobenzene	180	5.732	5.732	(0.992)	197722	50.0000	50.319
25 Naphthalene	128	5.806	5.806	(1.005)	662029	50.0000	52.127
26 4-Chloroaniline	127	5.886	5.886	(1.019)	286377	50.0000	51.766
193 Caprolactam	113	6.323	6.323	(1.094)	78113	50.0000	54.056
27 Hexachlorobutadiene	225	6.007	6.007	(1.040)	113876	50.0000	49.058
28 4-Chloro-3-Methylphenol	107	6.484	6.484	(1.122)	195523	50.0000	53.025
29 2-Methylnaphthalene	142	6.659	6.659	(1.152)	411573	50.0000	53.597
30 Hexachlorocyclopentadiene	237	6.981	6.981	(0.838)	142511	50.0000	48.340
31 2,4,6-Trichlorophenol	196	7.102	7.102	(0.852)	138644	50.0000	49.886
32 2,4,5-Trichlorophenol	196	7.163	7.163	(0.860)	150942	50.0000	51.307
194 1,1'-Biphenyl	154	7.364	7.364	(0.884)	468273	50.0000	51.542
33 2-Chloronaphthalene	162	7.371	7.371	(0.885)	364441	50.0000	51.163
34 2-Nitroaniline	65	7.600	7.600	(0.912)	130981	50.0000	52.434
35 Dimethylphthalate	163	7.983	7.983	(0.958)	456594	50.0000	51.464
36 Acenaphthylene	152	8.063	8.063	(0.968)	619594	50.0000	51.736
37 2,6-Dinitrotoluene	165	8.090	8.090	(0.971)	114034	50.0000	52.460
38 3-Nitroaniline	138	8.319	8.319	(0.998)	138056	50.0000	53.212
39 Acenaphthene	153	8.392	8.392	(1.007)	374636	50.0000	51.292
40 2,4-Dinitrophenol	184	8.500	8.500	(1.020)	76045	50.0000	60.378
41 4-Nitrophenol	109	8.661	8.661	(1.040)	61396	50.0000	53.810
42 Dibenzofuran	168	8.681	8.681	(1.042)	519692	50.0000	51.792
43 2,4-Dinitrotoluene	165	8.796	8.796	(1.056)	154536	50.0000	53.017
44 Diethylphthalate	149	9.313	9.313	(1.118)	458401	50.0000	53.219
45 4-Chlorophenyl-phenylether	204	9.367	9.367	(1.124)	215730	50.0000	51.815
46 Fluorene	166	9.333	9.333	(1.120)	409309	50.0000	53.721
47 4-Nitroaniline	138	9.488	9.488	(1.139)	138041	50.0000	53.552
48 4,6-Dinitro-2-methylphenol	198	9.568	9.568	(0.854)	100695	50.0000	57.980
49 N-Nitrosodiphenylamine (1)	169	9.629	9.629	(0.859)	317137	50.0000	51.697
50 4-Bromophenyl-phenylether	248	10.334	10.334	(0.922)	132817	50.0000	51.474
51 Hexachlorobenzene	284	10.590	10.590	(0.945)	156653	50.0000	51.942 (Q)
195 Atrazine	200	10.865	10.865	(0.969)	113555	50.0000	48.862
53 Pentachlorophenol	266	10.979	10.979	(0.980)	94028	50.0000	62.704
54 Phenanthrene	178	11.262	11.262	(1.005)	570047	50.0000	51.368
55 Anthracene	178	11.356	11.356	(1.013)	598901	50.0000	53.284
56 Carbazole	167	11.745	11.745	(1.048)	558340	50.0000	53.160
57 Di-n-Butylphthalate	149	12.780	12.780	(1.140)	780866	50.0000	52.576
58 Fluoranthene	202	13.842	13.842	(1.235)	649895	50.0000	54.920
59 Pyrene	202	14.312	14.312	(0.839)	638322	50.0000	47.887
60 Butylbenzylphthalate	149	16.093	16.093	(0.944)	340885	50.0000	48.154
61 3,3'-Dichlorobenzidine	252	17.094	17.094	(1.002)	256822	50.0000	54.649
62 Benzo(a)Anthracene	228	17.020	17.020	(0.998)	603756	50.0000	50.793
63 Chrysene	228	17.114	17.114	(1.004)	541786	50.0000	50.061
64 bis(2-ethylhexyl) Phthalate	149	17.517	17.517	(1.027)	480441	50.0000	49.147
65 Di-n-octylphthalate	149	18.834	18.834	(0.941)	829897	50.0000	47.487
66 Benzo(b)fluoranthene	252	19.304	19.304	(0.964)	629879	50.0000	47.053
67 Benzo(k)fluoranthene	252	19.358	19.358	(0.967)	586435	50.0000	52.008

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
68 Benzo (a) pyrene	252	19.916	19.916	(0.995)	556763	50.0000	49.774
69 Indeno (1,2,3-cd) pyrene	276	21.898	21.898	(1.094)	541910	50.0000	47.595
70 Dibenz (a,h) anthracene	278	21.952	21.952	(1.096)	567170	50.0000	49.571
71 Benzo (g,h,i) perylene	276	22.315	22.315	(1.114)	559822	50.0000	47.820
\$ 72 Nitrobenzene-d5	82	5.080	5.080	(0.879)	253502	50.0000	53.316
\$ 73 2-Fluorobiphenyl	172	7.230	7.230	(0.868)	449147	50.0000	52.319
\$ 74 Terphenyl-d14	244	14.816	14.816	(0.869)	538841	50.0000	50.357
\$ 75 Phenol-d5	99	4.314	4.314	(0.946)	287379	50.0000	57.358
\$ 76 2-Fluorophenol	112	3.501	3.501	(0.767)	238279	50.0000	51.243
\$ 77 2,4,6-Tribromophenol	330	9.844	9.844	(0.878)	97359	50.0000	54.525
\$ 78 2-Chlorophenol-d4	132	4.408	4.408	(0.966)	234355	50.0000	54.330
\$ 79 1,2-Dichlorobenzene-d4	152	4.724	4.724	(1.035)	159794	50.0000	54.715

QC Flag Legend

Q - Qualifier signal failed the ratio test.

**GC/MS SEMIVOLATILE
QC DATA**

Date : 24-OCT-2000 11:27

Client ID: DFTPP

Instrument: 721.i

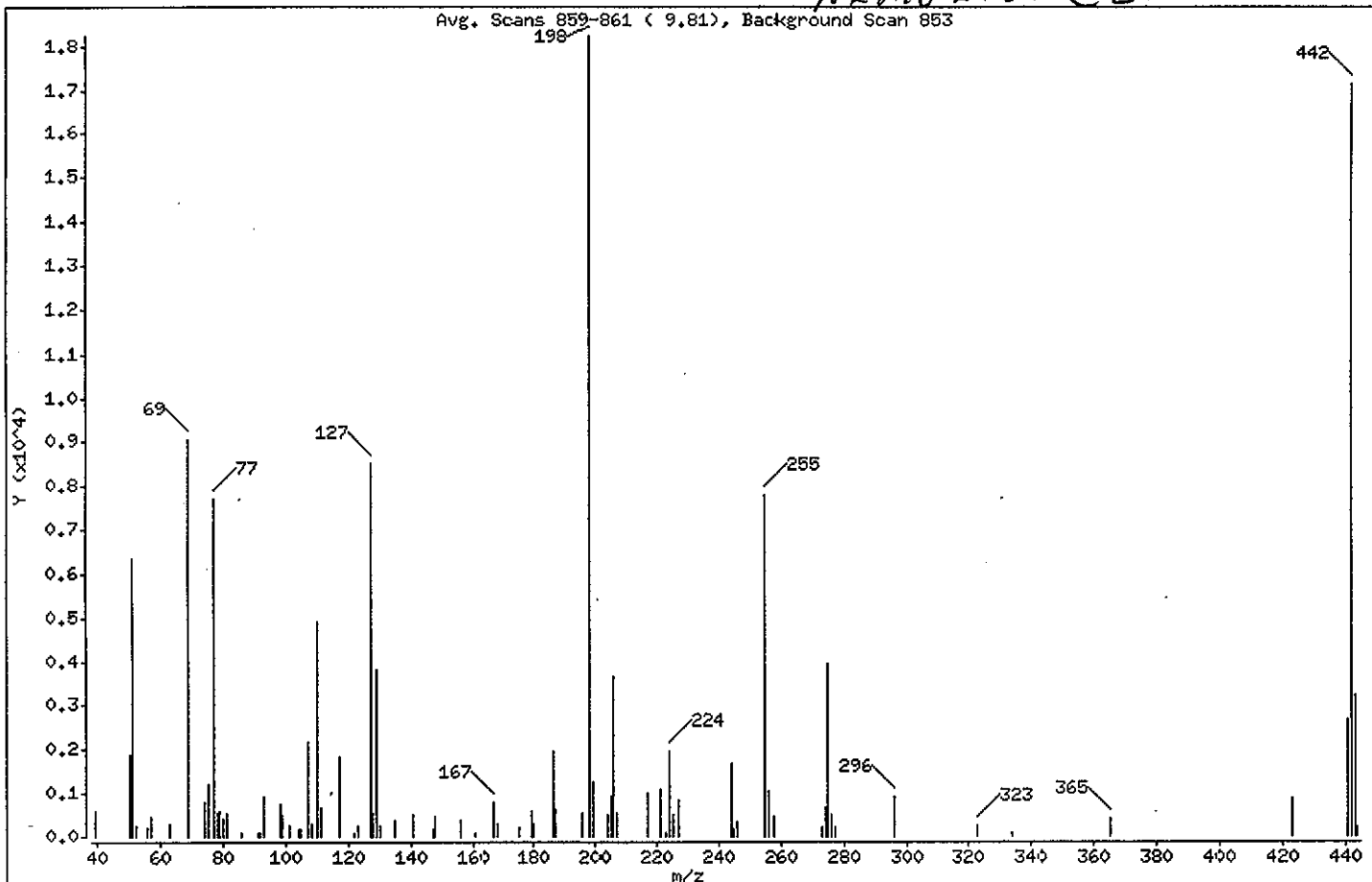
Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, DLF

Column phase:
1 dftpp

Column diameter: 0.25

AT 210-24-00 CLP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	34.62
68	Less than 2.00% of mass 69	0.00 < 0.00
69	Mass 69 relative abundance	49.65
70	Less than 2.00% of mass 69	0.00 < 0.00
127	25.00 - 75.00% of mass 198	46.58
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.96
275	10.00 - 30.00% of mass 198	21.63
365	Greater than 0.75% of mass 198	2.19
441	Present, but less than mass 443	14.76
442	40.00 - 110.00% of mass 198	94.07
443	15.00 - 24.00% of mass 442	17.68 < 18.80

Date : 24-OCT-2000 11:27

Client ID: DFTPP

Instrument: 721.i

Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

Data File: D1024DFT.D
 Spectrum: Avg. Scans 859-861 (9.81), Background Scan 853
 Location of Maximum: 198.00
 Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	583	101.00	261	168.00	288	246.00	325
50.00	1873	104.00	186	175.00	225	255.00	7788
51.00	6316	105.00	167	179.00	597	256.00	1055
52.00	261	107.00	2179	180.00	299	258.00	455
56.00	208	108.00	296	186.00	1974	273.00	202
57.00	482	110.00	4906	187.00	625	274.00	655
63.00	289	111.00	681	196.00	551	275.00	3946
69.00	9057	117.00	1863	198.00	18240	276.00	523
74.00	812	122.00	83	199.00	1270	277.00	223
75.00	1197	123.00	234	204.00	516	296.00	919
77.00	7720	127.00	8498	205.00	909	323.00	248
78.00	548	128.00	549	206.00	3657	334.00	91
79.00	602	129.00	3817	207.00	543	365.00	400
80.00	416	130.00	268	217.00	1019	423.00	901
81.00	538	135.00	389	221.00	1089	441.00	2692
86.00	84	141.00	502	223.00	97	442.00	17160
91.00	92	147.00	184	224.00	1980	443.00	3226
92.00	90	148.00	480	225.00	509	444.00	204
93.00	939	156.00	367	227.00	829		
98.00	745	161.00	86	244.00	1690		
99.00	515	167.00	786	245.00	188		

Data File: \\QPITP902\DVchem\721.i\4102400\DI024DFT.D

Date: 24-OCT-2000 11:27

Client ID: DFIPP

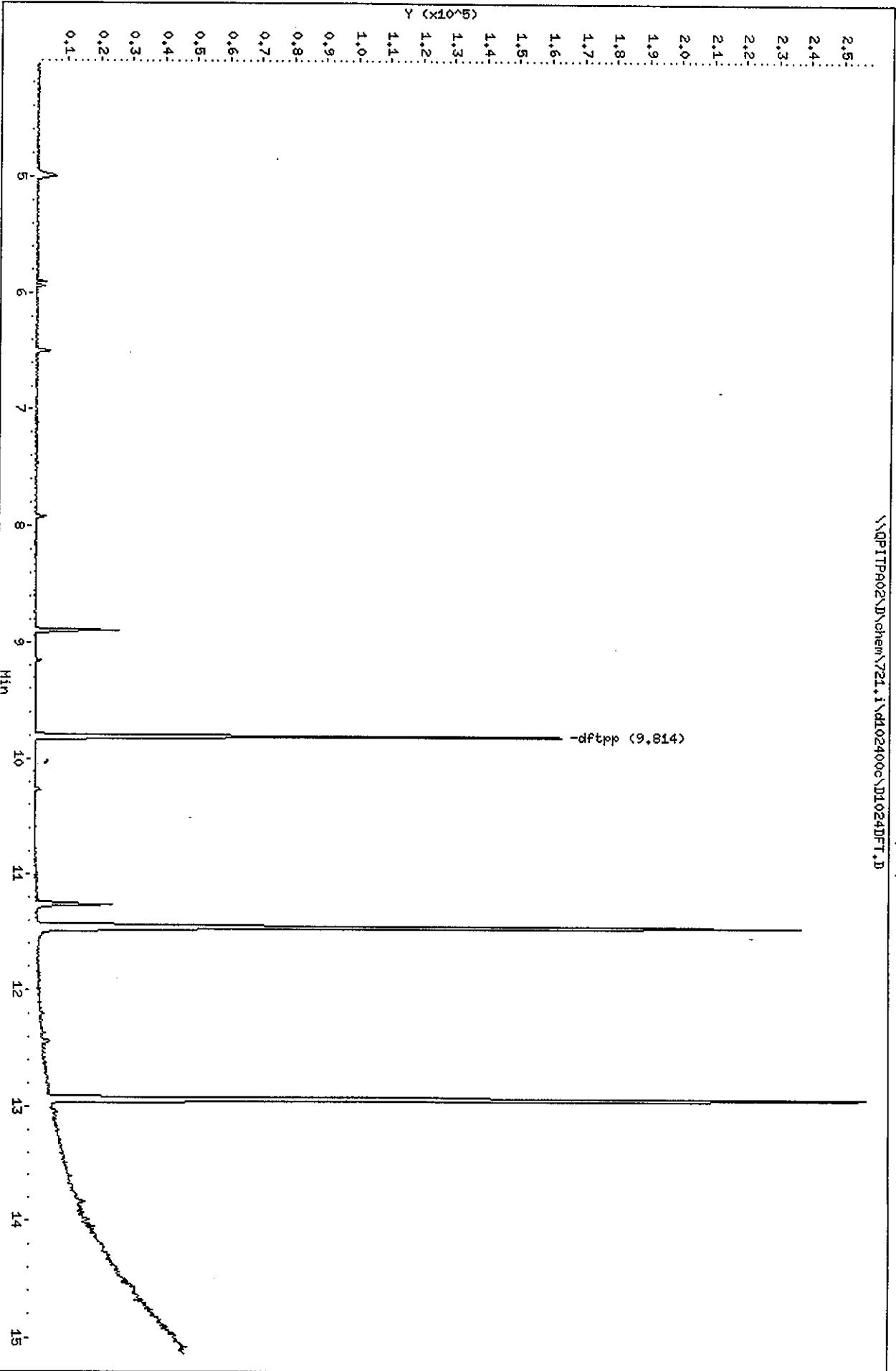
Sample Info: dfpp (25ug/ml) 194-175-8

Instrument: 721.i

Column phase:

Operator: 001562, DLF
Column diameter: 0.25

\\QPITP902\DVchem\721.i\4102400\DI024DFT.D



Date : 26-OCT-2000 14:46

Client ID:

Instrument: 721.i

Sample Info: dftpp (25ug/ml) 194-175-8

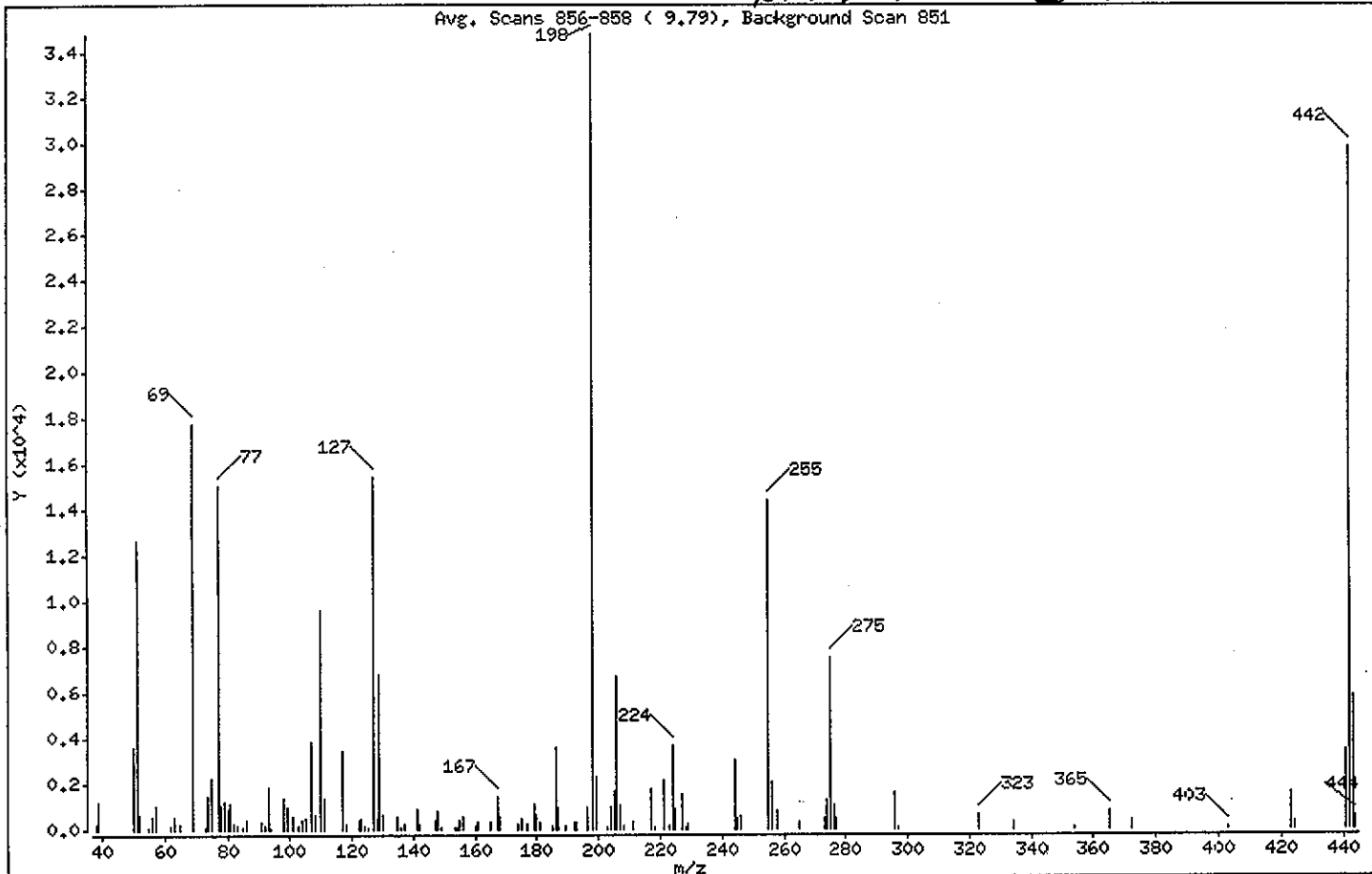
Operator: 001562, DLF

Column phase:

Column diameter: 0.25

1 dftpp

DLA 10-26-00 - CLP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	36.34
68	Less than 2.00% of mass 69	0.00 < 0.00
69	Mass 69 relative abundance	51.03
70	Less than 2.00% of mass 69	0.00 < 0.00
127	25.00 - 75.00% of mass 198	44.42
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.59
275	10.00 - 30.00% of mass 198	21.67
365	Greater than 0.75% of mass 198	2.19
441	Present, but less than mass 443	9.98
442	40.00 - 110.00% of mass 198	85.73
443	15.00 - 24.00% of mass 442	16.87 < 19.68

Date : 26-OCT-2000 14:46

Client ID:

Instrument: 721.i

Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

Data File: D1026DF2.D
 Spectrum: Avg. Scans 856-858 (9.79), Background Scan 851
 Location of Maximum: 198.00
 Number of points: 122

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	209	103.00	196	165.00	319	227.00	1546
39.00	1205	104.00	436	167.00	1427	228.00	89
50.00	3562	105.00	440	168.00	595	229.00	221
51.00	12644	107.00	3836	174.00	207	244.00	3077
52.00	670	108.00	656	175.00	487	245.00	457
55.00	89	110.00	9565	177.00	289	246.00	592
56.00	523	111.00	1329	179.00	1103	255.00	14431
57.00	1000	117.00	3435	180.00	631	256.00	2101
62.00	192	118.00	207	181.00	340	258.00	790
63.00	559	122.00	378	185.00	136	265.00	295
65.00	216	123.00	509	186.00	3565	273.00	451
69.00	17752	124.00	186	187.00	980	274.00	1268
73.00	83	125.00	108	189.00	186	275.00	7539
74.00	1468	127.00	15454	192.00	337	276.00	1014
75.00	2238	128.00	483	193.00	325	277.00	517
77.00	15026	129.00	6834	196.00	984	296.00	1630
78.00	1065	130.00	640	198.00	34784	297.00	103
79.00	1223	135.00	546	199.00	2294	323.00	662
80.00	871	136.00	87	203.00	85	334.00	357
81.00	1120	137.00	202	204.00	950	354.00	87
82.00	228	141.00	865	205.00	1663	365.00	762
83.00	174	142.00	211	206.00	6698	372.00	371
85.00	89	147.00	435	207.00	1037	403.00	97
86.00	399	148.00	822	208.00	183	423.00	1563
91.00	299	149.00	90	211.00	314	424.00	307
92.00	124	153.00	94	217.00	1773	441.00	3473
93.00	1823	154.00	84	218.00	96	442.00	29824
94.00	85	155.00	434	221.00	2138	443.00	5870
98.00	1357	156.00	573	223.00	146	444.00	535
99.00	991	160.00	184	224.00	3671		
101.00	524	161.00	336	225.00	918		

Data File: \\QP1TPA02\chem\721.i\dl102600p.b\dl1026DF2.D
Date: 26-OCT-2000 14:46

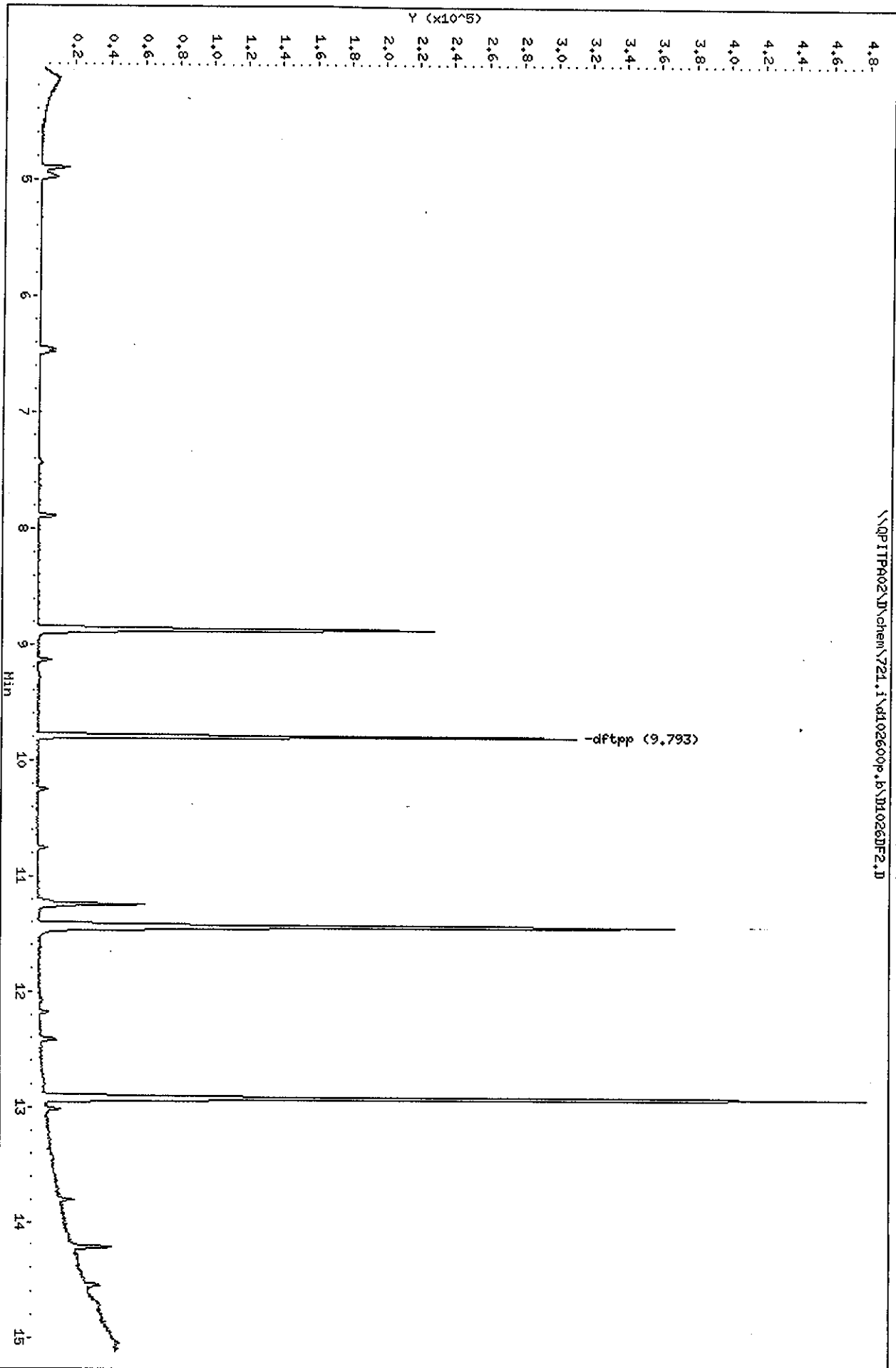
Client ID:

Sample Info: dftpp (25ug/ml) 194-175-8

Instrument: 721.i

Operator: 001562, DLF
Column diameter: 0.25

Column phase: \\QP1TPA02\chem\721.i\dl102600p.b\dl1026DF2.D



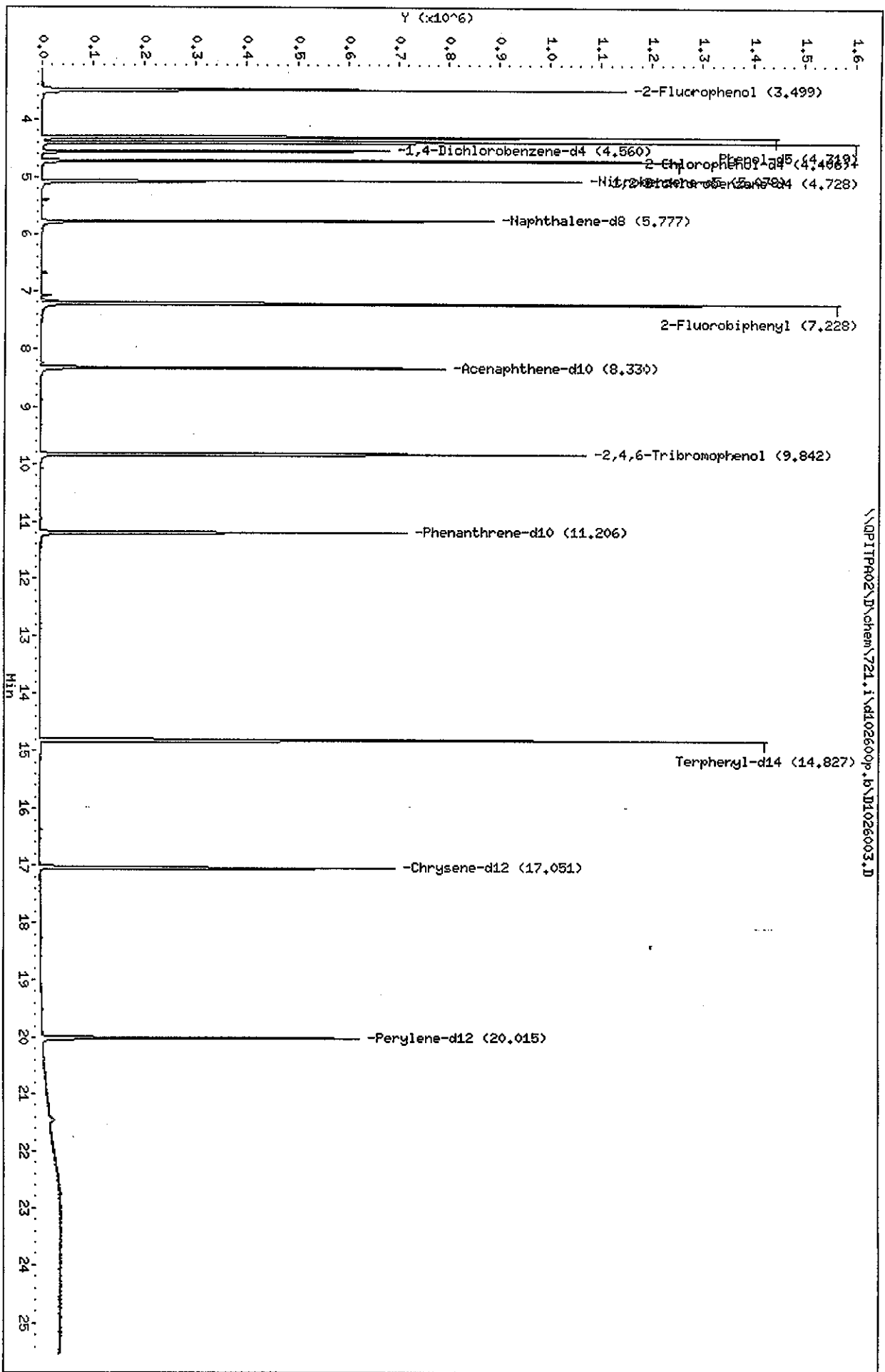
CUMMINGS-RITER CONSULTANTS INC
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:
Matrix: (soil/water) SOLID Lab Sample ID: C0J250000 576
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)
Sample WT/Vol: 30 / g Date Received: 10/24/00
Work Order: DNQ8E1AA Date Extracted: 10/25/00
Dilution factor: 1 Date Analyzed: 10/26/00
Moisture %: NA
QC Batch: 0299576
Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
56-55-3	Benzo (a) anthracene	330		U
205-99-2	Benzo (b) fluoranthene	330		U
50-32-8	Benzo (a) pyrene	330		U
193-39-5	Indeno (1,2,3-cd) pyrene	330		U

Data File: \\NPI\PRO2\chem\721.1\4102600p.b\DI026003.D
 Date: 26-OCT-2000 15:40
 Client ID: INTRA-LAB BLANK
 Sample Info: c0240227-sbik soil 10/25/00 c1p4.2
 Volume Injected (uL): 2.0
 Column phase:

Instrument: 721.1
 Operator: 001562, DLF
 Column diameter: 0.25



STL-Pittsburgh

Semivolatile REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102600p.b\D1026003.D
 Lab Smp Id: DNQ8E1AA Client Smp ID: INTRA-LAB BLANK
 Inj Date : 26-OCT-2000 15:40
 Operator : 001562, DLF Inst ID: 721.i
 Smp Info : c0j240227-sblk soil 10/25/00 clp4.2
 Misc Info : dnq8elaa,d102600p.b,clp.m,1-4.2.sub
 Comment :
 Method : \\QPITPA02\D\chem\721.i\d102600p.b\clp.m
 Meth Date : 27-Oct-2000 08:24 ferguson Quant Type: ISTD
 Cal Date : 26-OCT-2000 15:07 Cal File: D1026CC3.D
 Als bottle: 6 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC013

DL 2
10-27-00

Compound Sublist: 1-4.2.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.560	4.562 (1.000)		140024	40.0000	
* 2 Naphthalene-d8	136	5.776	5.779 (1.000)		571749	40.0000	
* 3 Acenaphthene-d10	164	8.329	8.332 (1.000)		296023	40.0000	
* 4 Phenanthrene-d10	188	11.205	11.208 (1.000)		528840	40.0000	
* 5 Chrysene-d12	240	17.051	17.054 (1.000)		540617	40.0000	
* 6 Perylene-d12	264	20.014	20.023 (1.000)		484161	40.0000	
191 Benzaldehyde	77				Compound Not Detected.		
7 Phenol	94				Compound Not Detected.		
8 Bis(2-chloroethyl) ether	93				Compound Not Detected.		
9 2-Chlorophenol	128				Compound Not Detected.		
13 2-Methylphenol	108				Compound Not Detected.		
14 2,2'-oxybis(1-Chloropropane)	45				Compound Not Detected.		
192 Acetophenone	105				Compound Not Detected.		
15 4-Methylphenol	108				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
16 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
17 Hexachloroethane	117				Compound Not Detected.		
18 Nitrobenzene	77				Compound Not Detected.		
19 Isophorone	82				Compound Not Detected.		
20 2-Nitrophenol	139				Compound Not Detected.		
21 2,4-Dimethylphenol	107				Compound Not Detected.		
22 Bis(2-chloroethoxy)methane	93				Compound Not Detected.		
23 2,4-Dichlorophenol	162				Compound Not Detected.		
25 Naphthalene	128				Compound Not Detected.		
26 4-Chloroaniline	127				Compound Not Detected.		
193 Caprolactam	113				Compound Not Detected.		
27 Hexachlorobutadiene	224				Compound Not Detected.		
28 4-Chloro-3-Methylphenol	107				Compound Not Detected.		
29 2-Methylnaphthalene	142				Compound Not Detected.		
30 Hexachlorocyclopentadiene	236				Compound Not Detected.		
31 2,4,6-Trichlorophenol	196				Compound Not Detected.		
32 2,4,5-Trichlorophenol	196				Compound Not Detected.		
194 1,1'-Biphenyl	154				Compound Not Detected.		
33 2-Chloronaphthalene	162				Compound Not Detected.		
34 2-Nitroaniline	65				Compound Not Detected.		
35 Dimethylphthalate	163				Compound Not Detected.		
36 Acenaphthylene	152				Compound Not Detected.		
37 2,6-Dinitrotoluene	165				Compound Not Detected.		
38 3-Nitroaniline	138				Compound Not Detected.		
39 Acenaphthene	153				Compound Not Detected.		
40 2,4-Dinitrophenol	184				Compound Not Detected.		
41 4-Nitrophenol	109				Compound Not Detected.		
42 Dibenzofuran	168				Compound Not Detected.		
43 2,4-Dinitrotoluene	165				Compound Not Detected.		
44 Diethylphthalate	149				Compound Not Detected.		
45 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
46 Fluorene	166				Compound Not Detected.		
47 4-Nitroaniline	138				Compound Not Detected.		
48 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
49 N-Nitrosodiphenylamine (1)	169				Compound Not Detected.		
50 4-Bromophenyl-phenylether	248				Compound Not Detected.		
51 Hexachlorobenzene	283				Compound Not Detected.		
195 Atrazine	200				Compound Not Detected.		
53 Pentachlorophenol	265				Compound Not Detected.		
54 Phenanthrene	178				Compound Not Detected.		
55 Anthracene	178				Compound Not Detected.		
56 Carbazole	167				Compound Not Detected.		
57 Di-n-Butylphthalate	149				Compound Not Detected.		
58 Fluoranthene	202				Compound Not Detected.		
59 Pyrene	202				Compound Not Detected.		
60 Butylbenzylphthalate	149				Compound Not Detected.		
61 3,3'-Dichlorobenzidine	252				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
62 Benzo (a) Anthracene	228				Compound Not Detected.		
63 Chrysene	228				Compound Not Detected.		
64 bis (2-ethylhexyl) Phthalate	149				Compound Not Detected.		
65 Di-n-octylphthalate	149				Compound Not Detected.		
66 Benzo (b) fluoranthene	252				Compound Not Detected.		
67 Benzo (k) fluoranthene	252				Compound Not Detected.		
68 Benzo (a) pyrene	252				Compound Not Detected.		
69 Indeno (1,2,3-cd) pyrene	276				Compound Not Detected.		
70 Dibenz (a,h) anthracene	278				Compound Not Detected.		
71 Benzo (g,h,i) perylene	276				Compound Not Detected.		
\$ 72 Nitrobenzene-d5	82	5.077	5.080	(0.879)	407768	72.2653	1204.4
\$ 73 2-Fluorobiphenyl	172	7.227	7.230	(0.868)	734358	70.4843	1174.7
\$ 74 Terphenyl-d14	244	14.827	14.816	(0.870)	1088028	82.8787	1381.3
\$ 75 Phenol-d5	99	4.318	4.314	(0.947)	682483	111.678	1861.3
\$ 76 2-Fluorophenol	112	3.498	3.501	(0.767)	520604	102.743	1712.4
\$ 77 2,4,6-Tribromophenol	330	9.841	9.844	(0.878)	275132	120.836	2013.9
\$ 78 2-Chlorophenol-d4	132	4.405	4.408	(0.966)	612379	122.879	2048.0
\$ 79 1,2-Dichlorobenzene-d4	152	4.728	4.724	(1.037)	251445	73.9968	1233.3

CUMMINGS-RITER CONSULTANTS INC
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: C0J250000 576

Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00

Work Order: DNQ8E1AC Date Extracted: 10/25/00

Dilution factor: 1 Date Analyzed: 10/26/00

Moisture %: NA

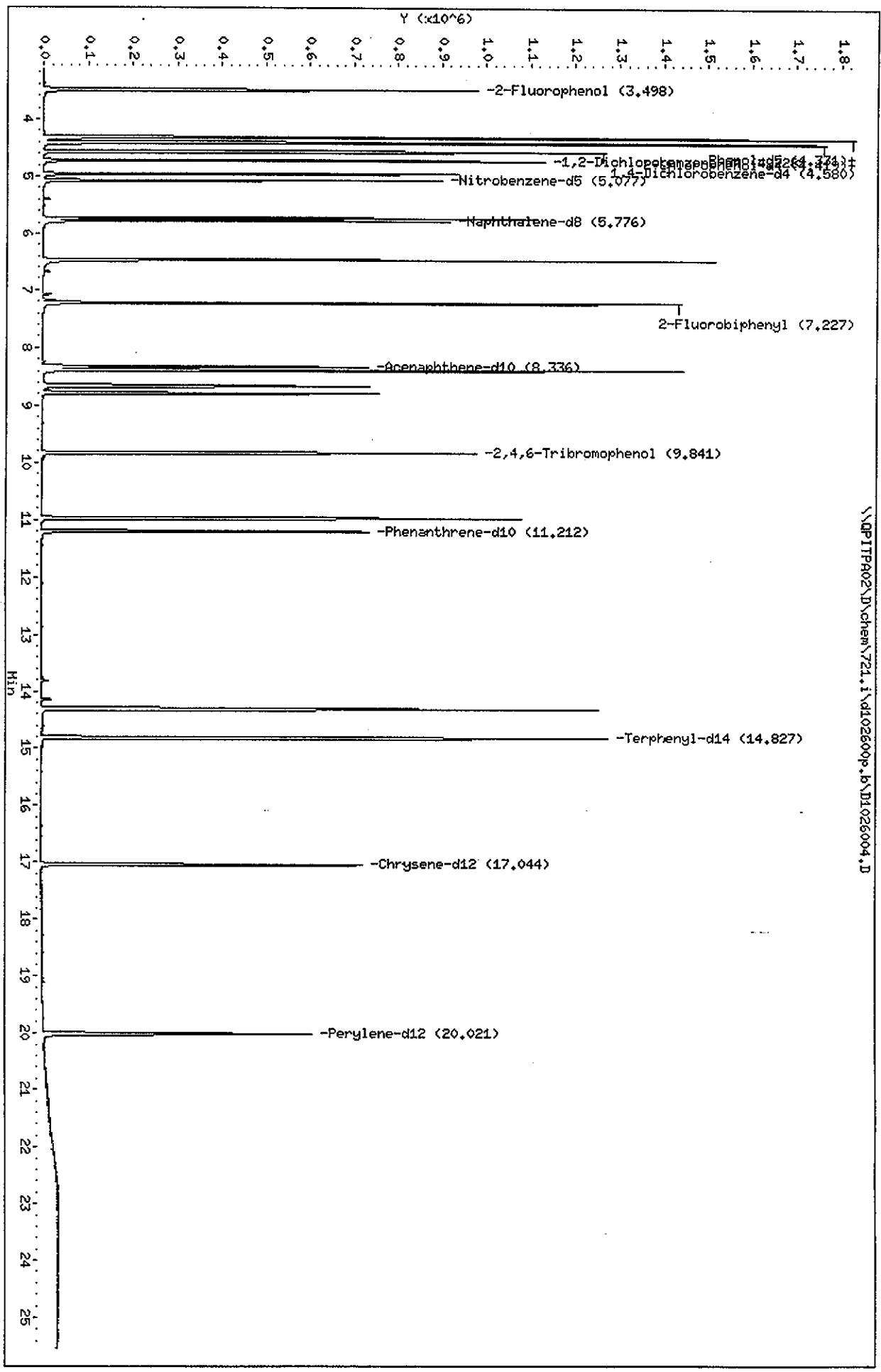
QC Batch: 0299576

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-95-2	Phenol	1530	
95-57-8	2-Chlorophenol	1630	
621-64-7	N-Nitrosodi-n-propylamine	1270	
59-50-7	4-Chloro-3-methylphenol	1760	
83-32-9	Acenaphthene	1150	
100-02-7	4-Nitrophenol	1890	
121-14-2	2,4-Dinitrotoluene	1290	
87-86-5	Pentachlorophenol	1970	
129-00-0	Pyrene	1310	

Data File: \\NPITPA02\N\chem\721.i\dl02600p.b\DI026004.D
 Date: 26-OCT-2000 16:11
 Client ID: INTRA-LAB CHECK
 Sample Info: c03240227-1cs soil 10/25/00 c1p4.2
 Volume Injected (uL): 2.0
 Column phase:

Instrument: 721.i
 Operator: 001562, DLF
 Column diameter: 0.25



\\NPITPA02\N\chem\721.i\dl02600p.b\DI026004.D

STL-Pittsburgh

Semivolatiles REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102600p.b\D1026004.D
 Lab Smp Id: DNQ8E1AC Client Smp ID: LCS
 Inj Date : 26-OCT-2000 16:11
 Operator : 001562, DLF Inst ID: 721.i
 Smp Info : c0j240227-lcs soil 10/25/00 clp4.2
 Misc Info : dnq8elac,d102600p.b,clp.m,1-4.2.sub
 Comment :
 Method : \\QPITPA02\D\chem\721.i\d102600p.b\clp.m
 Meth Date : 27-Oct-2000 08:24 ferguson Quant Type: ISTD
 Cal Date : 26-OCT-2000 15:07 Cal File: D1026CC3.D
 Als bottle: 7 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC013

DLJ
10-27-00

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.566	4.562	(1.000)	142188	40.0000	
* 2 Naphthalene-d8	136	5.775	5.779	(1.000)	586371	40.0000	
* 3 Acenaphthene-d10	164	8.335	8.332	(1.000)	304544	40.0000	
* 4 Phenanthrene-d10	188	11.211	11.208	(1.000)	537849	40.0000	
* 5 Chrysene-d12	240	17.044	17.054	(1.000)	541888	40.0000	
* 6 Perylene-d12	264	20.020	20.023	(1.000)	493418	40.0000	
191 Benzaldehyde	77	Compound Not Detected.					
7 Phenol	94	4.331	4.327	(0.948)	554792	91.8366	1530.6(Q)
8 Bis(2-chloroethyl)ether	93	Compound Not Detected.					
9 2-Chlorophenol	128	4.425	4.421	(0.969)	512562	97.6613	1627.7
13 2-Methylphenol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192 Acetophenone	105	Compound Not Detected.					
15 4-Methylphenol	108	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
16 N-Nitroso-di-n-propylamine	70	4.962	4.966	(1.087)	274949	76.0663	1267.8
17 Hexachloroethane	117				Compound Not Detected.		
18 Nitrobenzene	77				Compound Not Detected.		
19 Isophorone	82				Compound Not Detected.		
20 2-Nitrophenol	139				Compound Not Detected.		
21 2,4-Dimethylphenol	107				Compound Not Detected.		
22 Bis(2-chloroethoxy)methane	93				Compound Not Detected.		
23 2,4-Dichlorophenol	162				Compound Not Detected.		
25 Naphthalene	128				Compound Not Detected.		
26 4-Chloroaniline	127				Compound Not Detected.		
193 Caprolactam	113				Compound Not Detected.		
27 Hexachlorobutadiene	224				Compound Not Detected.		
28 4-Chloro-3-Methylphenol	107	6.474	6.484	(1.121)	470329	105.374	1756.2
29 2-Methylnaphthalene	142				Compound Not Detected.		
30 Hexachlorocyclopentadiene	236				Compound Not Detected.		
31 2,4,6-Trichlorophenol	196				Compound Not Detected.		
32 2,4,5-Trichlorophenol	196				Compound Not Detected.		
194 1,1'-Biphenyl	154				Compound Not Detected.		
33 2-Chloronaphthalene	162				Compound Not Detected.		
34 2-Nitroaniline	65				Compound Not Detected.		
35 Dimethylphthalate	163				Compound Not Detected.		
36 Acenaphthylene	152				Compound Not Detected.		
37 2,6-Dinitrotoluene	165				Compound Not Detected.		
38 3-Nitroaniline	138				Compound Not Detected.		
39 Acenaphthene	153	8.396	8.392	(1.007)	617029	69.0151	1150.2
40 2,4-Dinitrophenol	184				Compound Not Detected.		
41 4-Nitrophenol	109	8.671	8.661	(1.040)	166379	113.555	1892.6(Q)
42 Dibenzofuran	168				Compound Not Detected.		
43 2,4-Dinitrotoluene	165	8.799	8.796	(1.056)	285458	77.4035	1290.0
44 Diethylphthalate	149				Compound Not Detected.		
45 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
46 Fluorene	166				Compound Not Detected.		
47 4-Nitroaniline	138				Compound Not Detected.		
48 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
49 N-Nitrosodiphenylamine (1)	169				Compound Not Detected.		
50 4-Bromophenyl-phenylether	248				Compound Not Detected.		
51 Hexachlorobenzene	283				Compound Not Detected.		
195 Atrazine	200				Compound Not Detected.		
53 Pentachlorophenol	266	10.983	10.979	(0.980)	265001	118.491	1974.8
54 Phenanthrene	178				Compound Not Detected.		
55 Anthracene	178				Compound Not Detected.		
56 Carbazole	167				Compound Not Detected.		
57 Di-n-Butylphthalate	149				Compound Not Detected.		
58 Fluoranthene	202				Compound Not Detected.		
59 Pyrene	202	14.322	14.312	(0.840)	1226523	78.6828	1311.4
60 Butylbenzylphthalate	149				Compound Not Detected.		
61 3,3'-Dichlorobenzidine	252				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
62 Benzo(a)Anthracene	228				Compound Not Detected.		
63 Chrysene	228				Compound Not Detected.		
64 bis(2-ethylhexyl)Phthalate	149				Compound Not Detected.		
65 Di-n-octylphthalate	149				Compound Not Detected.		
66 Benzo(b)fluoranthene	252				Compound Not Detected.		
67 Benzo(k)fluoranthene	252				Compound Not Detected.		
68 Benzo(a)pyrene	252				Compound Not Detected.		
69 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
70 Dibenz(a,h)anthracene	278				Compound Not Detected.		
71 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 72 Nitrobenzene-d5	82	5.077	5.080	(0.879)	356924	61.6773	1028.0
\$ 73 2-Fluorobiphenyl	172	7.227	7.230	(0.867)	655960	61.1980	1020.0
\$ 74 Terphenyl-d14	244	14.826	14.816	(0.870)	993697	75.5157	1258.6
\$ 75 Phenol-d5	99	4.324	4.314	(0.947)	576391	92.8821	1548.0
\$ 76 2-Fluorophenol	112	3.498	3.501	(0.766)	449858	87.4298	1457.2
\$ 77 2,4,6-Tribromophenol	330	9.847	9.844	(0.878)	246409	106.408	1773.5
\$ 78 2-Chlorophenol-d4	132	4.411	4.408	(0.966)	513637	101.497	1691.6
\$ 79 1,2-Dichlorobenzene-d4	152	4.727	4.724	(1.035)	214186	62.0727	1034.5

QC Flag Legend

Q - Qualifier signal failed the ratio test.

CUMMINGS-RITER CONSULTANTS INC
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: C0J240227 001

Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00

Work Order: DNNGD1AH Date Extracted: 10/25/00

Dilution factor: 1 Date Analyzed: 10/26/00

Moisture %: 9.2

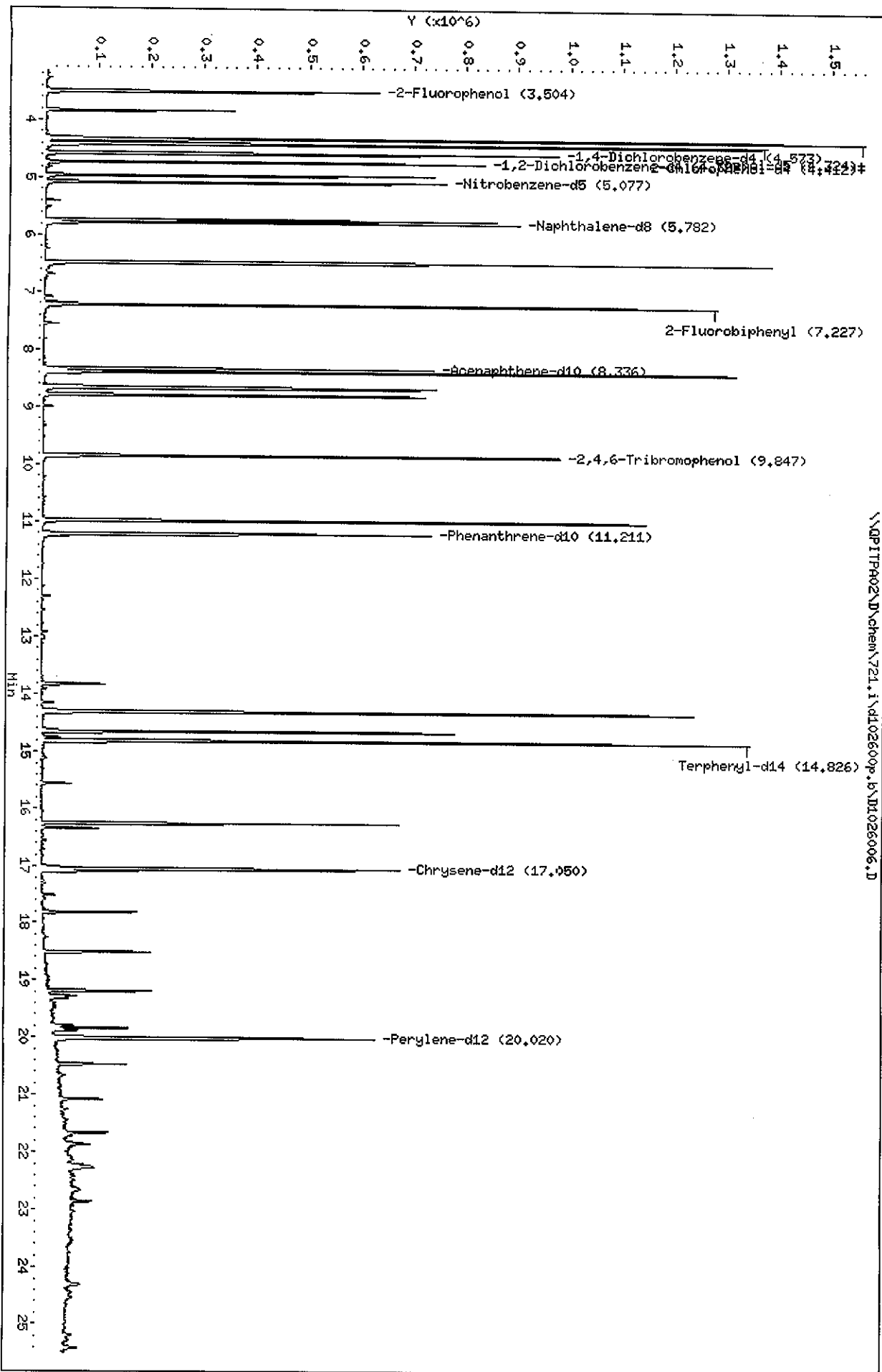
QC Batch: 0299576

Client Sample Id: PXS-21

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-95-2	Phenol	1250	Q
95-57-8	2-Chlorophenol	1250	
621-64-7	N-Nitrosodi-n-propylamine	980	
59-50-7	4-Chloro-3-methylphenol	1760	
83-32-9	Acenaphthene	1160	
100-02-7	4-Nitrophenol	2190	
121-14-2	2,4-Dinitrotoluene	1360	
87-86-5	Pentachlorophenol	2500	
129-00-0	Pyrene	1570	

Data File: \\QPI1P002\1\chem\721.i\dl02600p.b\DI026006.D
 Date: 26-OCT-2000 17:15
 Client ID: PXS-21
 Sample Info: s0j240227-001ms soil 10/25/00 c1p4.2
 Volume Injected (uL): 2.0
 Column phase:

Instrument: 721.i
 Operator: 001562, DLF
 Column diameter: 0.25



STL-Pittsburgh

Semivolatile REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102600p.b\D1026006.D
 Lab Smp Id: DNGGD1AH Client Smp ID: PXS-21MS
 Inj Date : 26-OCT-2000 17:15
 Operator : 001562, DLF Inst ID: 721.i
 Smp Info : c0j240227-001ms soil 10/25/00 clp4.2
 Misc Info : dnngd1ah,d102600p.b,clp.m,1-4.2.sub
 Comment :
 Method : \\QPITPA02\D\chem\721.i\d102600p.b\clp.m
 Meth Date : 27-Oct-2000 08:24 ferguson Quant Type: ISTD
 Cal Date : 26-OCT-2000 15:07 Cal File: D1026CC3.D
 Als bottle: 9 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC013

*DL 7
10-27-00*

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.566	4.562	(1.000)	148318	40.0000	
* 2 Naphthalene-d8	136	5.782	5.779	(1.000)	591312	40.0000	
* 3 Acenaphthene-d10	164	8.335	8.332	(1.000)	296880	40.0000	
* 4 Phenanthrene-d10	188	11.211	11.208	(1.000)	511058	40.0000	
* 5 Chrysene-d12	240	17.050	17.054	(1.000)	498157	40.0000	
* 6 Perylene-d12	264	20.020	20.023	(1.000)	437310	40.0000	
191 Benzaldehyde	77	Compound Not Detected.					
7 Phenol	94	4.330	4.327	(0.948)	427498	67.8405	1130.7 (Q)
8 Bis(2-chloroethyl) ether	93	Compound Not Detected.					
9 2-Chlorophenol	128	4.424	4.421	(0.969)	372691	68.0760	1134.6
13 2-Methylphenol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192 Acetophenone	105	Compound Not Detected.					
15 4-Methylphenol	108	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
16 N-Nitroso-di-n-propylamine	70	4.962	4.966	(1.087)	201125	53.3427	889.04
17 Hexachloroethane	117				Compound Not Detected.		
18 Nitrobenzene	77				Compound Not Detected.		
19 Isophorone	82				Compound Not Detected.		
20 2-Nitrophenol	139				Compound Not Detected.		
21 2,4-Dimethylphenol	107				Compound Not Detected.		
22 Bis(2-chloroethoxy)methane	93				Compound Not Detected.		
23 2,4-Dichlorophenol	162				Compound Not Detected.		
25 Naphthalene	128				Compound Not Detected.		
26 4-Chloroaniline	127				Compound Not Detected.		
193 Caprolactam	113				Compound Not Detected.		
27 Hexachlorobutadiene	224				Compound Not Detected.		
28 4-Chloro-3-Methylphenol	107	6.474	6.484	(1.120)	430464	95.6369	1593.9
29 2-Methylnaphthalene	142				Compound Not Detected.		
30 Hexachlorocyclopentadiene	236				Compound Not Detected.		
31 2,4,6-Trichlorophenol	196				Compound Not Detected.		
32 2,4,5-Trichlorophenol	196				Compound Not Detected.		
194 1,1'-Biphenyl	154				Compound Not Detected.		
33 2-Chloronaphthalene	162				Compound Not Detected.		
34 2-Nitroaniline	65				Compound Not Detected.		
35 Dimethylphthalate	163				Compound Not Detected.		
36 Acenaphthylene	152				Compound Not Detected.		
37 2,6-Dinitrotoluene	165				Compound Not Detected.		
38 3-Nitroaniline	138				Compound Not Detected.		
39 Acenaphthene	153	8.395	8.392	(1.007)	550073	63.1144	1051.9
40 2,4-Dinitrophenol	184				Compound Not Detected.		
41 4-Nitrophenol	109	8.671	8.661	(1.040)	170117	119.104	1985.1 (Q)
42 Dibenzofuran	168				Compound Not Detected.		
43 2,4-Dinitrotoluene	165	8.799	8.796	(1.056)	266273	74.0653	1234.4
44 Diethylphthalate	149				Compound Not Detected.		
45 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
46 Fluorene	166				Compound Not Detected.		
47 4-Nitroaniline	138				Compound Not Detected.		
48 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
49 N-Nitrosodiphenylamine (1)	169				Compound Not Detected.		
50 4-Bromophenyl-phenylether	248				Compound Not Detected.		
51 Hexachlorobenzene	283				Compound Not Detected.		
195 Atrazine	200				Compound Not Detected.		
53 Pentachlorophenol	266	10.989	10.979	(0.980)	289197	136.088	2268.1
54 Phenanthrene	178	11.251	11.262	(1.004)	31537	2.44790	40.798 (a)
55 Anthracene	178				Compound Not Detected.		
56 Carbazole	167				Compound Not Detected.		
57 Di-n-Butylphthalate	149				Compound Not Detected.		
58 Fluoranthene	202	13.825	13.842	(1.233)	93552	6.36933	106.16 (a)
59 Pyrene	202	14.322	14.312	(0.840)	1227190	85.6365	1427.3
60 Butylbenzylphthalate	149				Compound Not Detected.		
61 3,3'-Dichlorobenzidine	252				Compound Not Detected.		

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
62 Benzo (a) Anthracene	228		Compound Not Detected.				
63 Chrysene	228	17.090	17.114	(1.002)	35569	2.92436	48.739 (a)
64 bis (2-ethylhexyl) Phthalate	149		Compound Not Detected.				
65 Di-n-octylphthalate	149		Compound Not Detected.				
66 Benzo (b) fluoranthene	252	19.281	19.304	(0.963)	39788	2.92874	48.812 (aH)
67 Benzo (k) fluoranthene	252	19.321	19.358	(0.965)	34310	2.71260	45.210 (aQ)
68 Benzo (a) pyrene	252	19.885	19.916	(0.993)	27861	2.32013	38.669 (aQ)
69 Indeno (1,2,3-cd) pyrene	276	21.874	21.898	(1.093)	30558	2.61447	43.574 (a)
70 Dibenz (a,h) anthracene	278		Compound Not Detected.				
71 Benzo (g,h,i) perylene	276	22.277	22.315	(1.113)	29654	2.45595	40.932 (a)
\$ 72 Nitrobenzene-d5	82	5.076	5.080	(0.878)	280528	48.0708	801.18
\$ 73 2-Fluorobiphenyl	172	7.226	7.230	(0.867)	575329	55.0611	917.68
\$ 74 Terphenyl-d14	244	14.826	14.816	(0.870)	988725	81.7339	1362.2
\$ 75 Phenol-d5	99	4.317	4.314	(0.946)	466179	72.0172	1200.3
\$ 76 2-Fluorophenol	112	3.504	3.501	(0.767)	299177	55.7418	929.03
\$ 77 2,4,6-Tribromophenol	330	9.847	9.844	(0.878)	257642	117.091	1951.5
\$ 78 2-Chlorophenol-d4	132	4.411	4.408	(0.966)	392691	74.3902	1239.8
\$ 79 1,2-Dichlorobenzene-d4	152	4.727	4.724	(1.035)	157953	43.8840	731.40

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- H - Operator selected an alternate compound hit.

CUMMINGS-RITER CONSULTANTS INC
 MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: C0J240227 001

Method: OCLP OLM04.2
 Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00

Work Order: DNNGD1AJ Date Extracted: 10/25/00

Dilution factor: 1 Date Analyzed: 10/26/00

Moisture %: 9.2

QC Batch: 0299576

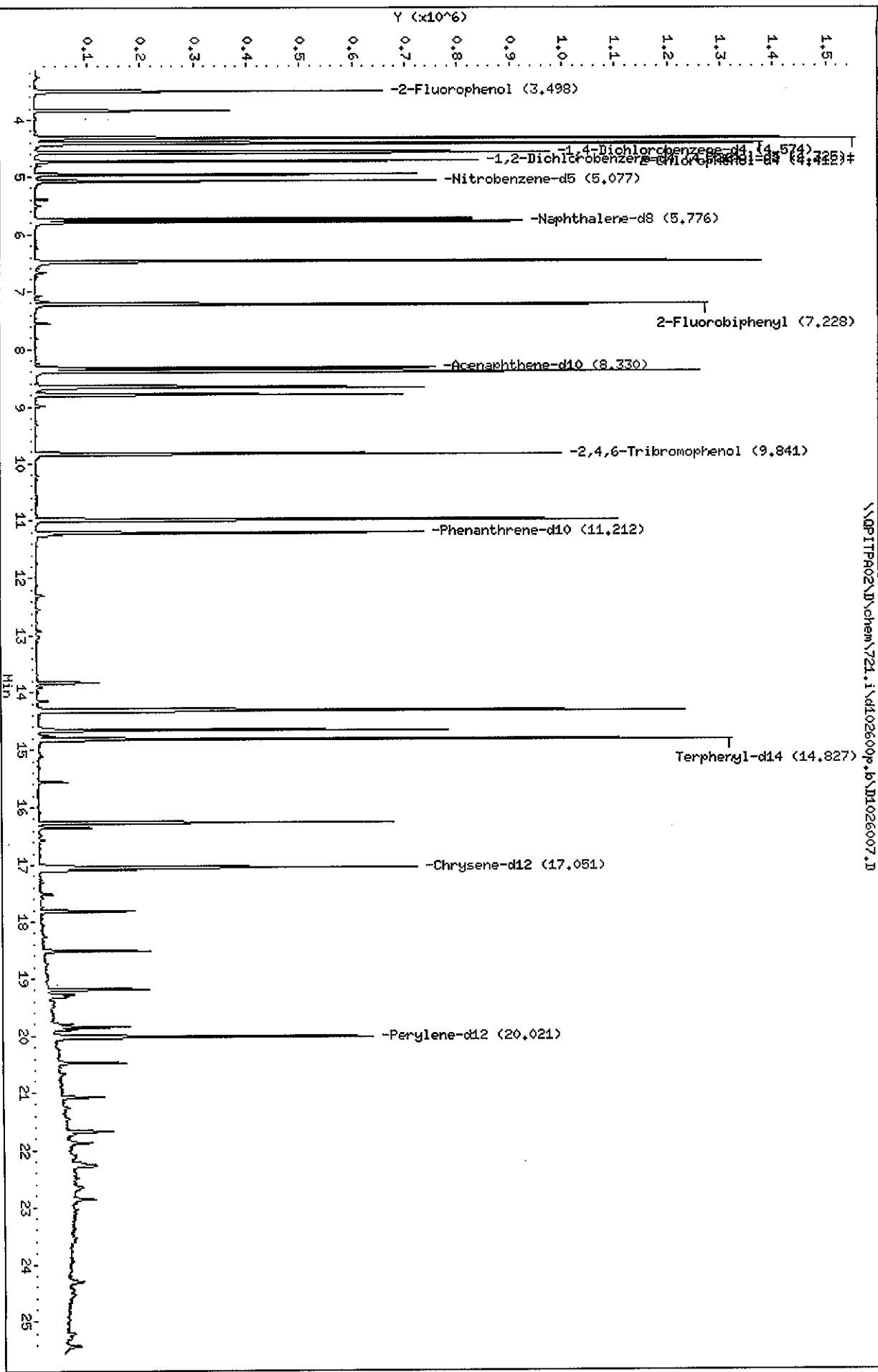
Client Sample Id: PXS-21

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	1230	
95-57-8	2-Chlorophenol	1220	
621-64-7	N-Nitrosodi-n-propylamine	965	
59-50-7	4-Chloro-3-methylphenol	1730	
83-32-9	Acenaphthene	1110	
100-02-7	4-Nitrophenol	2130	
121-14-2	2,4-Dinitrotoluene	1290	
87-86-5	Pentachlorophenol	2450	
129-00-0	Pyrene	1550	

Data File: \\NPITPA02\chem\721.i\4102600p.b\41026007.D
 Date: 26-OCT-2000 17:47
 Client ID: PXS-24
 Sample Info: 003240227-001msd soil 10/25/00 c1p4.2
 Volume Injected (uL): 2.0
 Column phase:

Instrument: 721.i
 Operator: 001562, DJF
 Column diameter: 0.25



STL-Pittsburgh

Semivolatile REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102600p.b\D1026007.D
 Lab Smp Id: DNNGD1AJ Client Smp ID: PXS-21MSD
 Inj Date : 26-OCT-2000 17:47
 Operator : 001562, DLF Inst ID: 721.i
 Smp Info : c0j240227-001msd soil 10/25/00 clp4.2
 Misc Info : dnngdlaj,d102600p.b,clp.m,1-4.2.sub
 Comment :
 Method : \\QPITPA02\D\chem\721.i\d102600p.b\clp.m
 Meth Date : 27-Oct-2000 08:24 ferguson Quant Type: ISTD
 Cal Date : 26-OCT-2000 15:07 Cal File: D1026CC3.D
 Als bottle: 10 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC013

OK
10-27-00

Compound Sublist: 1-4.2.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.566	4.562 (1.000)	151095	40.0000		
* 2 Naphthalene-d8	136	5.776	5.779 (1.000)	609125	40.0000		
* 3 Acenaphthene-d10	164	8.329	8.332 (1.000)	304297	40.0000		
* 4 Phenanthrene-d10	188	11.212	11.208 (1.000)	512115	40.0000		
* 5 Chrysene-d12	240	17.051	17.054 (1.000)	497095	40.0000		
* 6 Perylene-d12	264	20.021	20.023 (1.000)	440865	40.0000		
191 Benzaldehyde	77	Compound Not Detected.					
7 Phenol	94	4.331	4.327 (0.949)	428273	66.7143	1111.9(Q)	
8 Bis(2-chloroethyl)ether	93	Compound Not Detected.					
9 2-Chlorophenol	128	4.425	4.421 (0.969)	370504	66.4327	1107.2	
13 2-Methylphenol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192 Acetophenone	105	Compound Not Detected.					
15 4-Methylphenol	108	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
16 N-Nitroso-di-n-propylamine	70	4.963	4.966	(1.087)	201832	52.5464	875.77
17 Hexachloroethane	117	Compound Not Detected.					
18 Nitrobenzene	77	Compound Not Detected.					
19 Isophorone	82	Compound Not Detected.					
20 2-Nitrophenol	139	Compound Not Detected.					
21 2,4-Dimethylphenol	107	Compound Not Detected.					
22 Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
23 2,4-Dichlorophenol	162	Compound Not Detected.					
25 Naphthalene	128	Compound Not Detected.					
26 4-Chloroaniline	127	Compound Not Detected.					
193 Caprolactam	113	Compound Not Detected.					
27 Hexachlorobutadiene	224	Compound Not Detected.					
28 4-Chloro-3-Methylphenol	107	6.475	6.484	(1.121)	435747	93.9796	1566.3
29 2-Methylnaphthalene	142	Compound Not Detected.					
30 Hexachlorocyclopentadiene	236	Compound Not Detected.					
31 2,4,6-Trichlorophenol	196	Compound Not Detected.					
32 2,4,5-Trichlorophenol	196	Compound Not Detected.					
194 1,1'-Biphenyl	154	Compound Not Detected.					
33 2-Chloronaphthalene	162	Compound Not Detected.					
34 2-Nitroaniline	65	Compound Not Detected.					
35 Dimethylphthalate	163	Compound Not Detected.					
36 Acenaphthylene	152	Compound Not Detected.					
37 2,6-Dinitrotoluene	165	Compound Not Detected.					
38 3-Nitroaniline	138	Compound Not Detected.					
39 Acenaphthene	153	8.390	8.392	(1.007)	542340	60.7104	1011.8
40 2,4-Dinitrophenol	184	Compound Not Detected.					
41 4-Nitrophenol	109	8.672	8.661	(1.041)	169521	115.793	1929.9(Q)
42 Dibenzofuran	168	Compound Not Detected.					
43 2,4-Dinitrotoluene	165	8.799	8.796	(1.056)	259280	70.3623	1172.7
44 Diethylphthalate	149	Compound Not Detected.					
45 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
46 Fluorene	166	Compound Not Detected.					
47 4-Nitroaniline	138	Compound Not Detected.					
48 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
49 N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
50 4-Bromophenyl-phenylether	248	Compound Not Detected.					
51 Hexachlorobenzene	283	Compound Not Detected.					
195 Atrazine	200	Compound Not Detected.					
53 Pentachlorophenol	266	10.990	10.979	(0.980)	284395	133.552	2225.9
54 Phenanthrene	178	11.252	11.262	(1.004)	30945	2.39699	39.950(a)
55 Anthracene	178	Compound Not Detected.					
56 Carbazole	167	Compound Not Detected.					
57 Di-n-Butylphthalate	149	Compound Not Detected.					
58 Fluoranthene	202	13.825	13.842	(1.233)	90543	6.15175	102.53(a)
59 Pyrene	202	14.323	14.312	(0.840)	1204430	84.2279	1403.8
60 Butylbenzylphthalate	149	Compound Not Detected.					
61 3,3'-Dichlorobenzidine	252	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/Kg)
62 Benzo (a) Anthracene	228						
63 Chrysene	228	17.091	17.114	(1.002)	34934	2.87829	47.971 (a)
64 bis (2-ethylhexyl) Phthalate	149						
65 Di-n-octylphthalate	149						
66 Benzo (b) fluoranthene	252	19.281	19.304	(0.963)	39089	2.85408	47.568 (aQH)
67 Benzo (k) fluoranthene	252	19.322	19.358	(0.965)	33498	2.62705	43.784 (aQ)
68 Benzo (a) pyrene	252	19.886	19.916	(0.993)	26723	2.20742	36.790 (a)
69 Indeno (1,2,3-cd) pyrene	276	21.875	21.898	(1.093)	31013	2.63200	43.867 (a)
70 Dibenz (a,h) anthracene	278						
71 Benzo (g,h,i) perylene	276	22.278	22.315	(1.113)	30256	2.48560	41.427 (a)
\$ 72 Nitrobenzene-d5	82	5.077	5.080	(0.879)	278999	46.4107	773.51
\$ 73 2-Fluorobiphenyl	172	7.227	7.230	(0.868)	569802	53.2030	886.72
\$ 74 Terphenyl-d14	244	14.827	14.816	(0.870)	959733	79.5067	1325.1
\$ 75 Phenol-d5	99	4.318	4.314	(0.946)	463766	70.3277	1172.1
\$ 76 2-Fluorophenol	112	3.505	3.501	(0.768)	297294	54.3730	906.22
\$ 77 2,4,6-Tribromophenol	330	9.848	9.844	(0.878)	250159	113.456	1890.9
\$ 78 2-Chlorophenol-d4	132	4.405	4.408	(0.965)	390292	72.5768	1209.6
\$ 79 1,2-Dichlorobenzene-d4	152	4.728	4.724	(1.035)	157936	43.0728	717.88

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- H - Operator selected an alternate compound hit.

**GC/MS SEMIVOLATILE
MISCELLANEOUS**

Sonication Extraction Worksheet

B# 0299576

Start Date	Lot Number	Date Completed	Parameter	Method	Solvent	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	GPC Number "A"
10-25-00		10-26-00	CLP BNA	0.1 M 0.4 2	Mech/Acetone	77-03-07	0.5 ml	NA	NA	10-25-00
	1. C05240227	BLK	NA	30.0g			0.5	NA	NA	10-25-00
	2.	LCS		30.0g				77-02-03	0.5 ml	
	3.	001MS		30.0g				↓	↓	
	4.	001MSD		30.0g				NA	NA	
	5.	001		30.0g				↓	↓	
	6.	002		30.0g				↓	↓	
	7. C05190175	005	R/E	30.0g				↓	↓	
	8. C05200201	001	R/E	30.0g				↓	↓	
	9.						0.5			
	10.									
	11.									
	12.									
	13.									
	14.									
	15.									
	16.									
	17.									
	18.									
	19.									
	20.									
	21.									
	22.									
	23.									
	24.									
B.P. 10-25-00										
Analyst:	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.
Extract(s) (record line # from above)	All Above	10-25-00 1755	Byan G. Pife	09.1.14	10-25-00 1845	Bina A. Pife	GPC "B"			
	All Above	10-26-00 0900	Ken Durb	GPC "B"	10-26-00 1110	Ken Durb	Ref 01 BUA			
	All Above	10-26-00 1910	Don Ferguson	Ref 1 BNA	10-26-00 1400	Don Ferguson	Ref 02 BNA			
Sodium Sulfate Mfg/Lot Number	Baker / T29628				Reviewed by:	Ken Durb			Date:	10-26-00

Sequence Name: D:\HPCHEM\1\SEQUENCE\D102400.S
 Comment: STL PITT HP5972-1 Log 2ul inj 100ul + 1ul IS
 Operator: 001562, DLF
 Data Path: D:\HPCHEM\1\DATA\d102400.b\
 Pre-Seq Cmd:
 Post-Seq Cmd:

APZ
 10-24-00

CLP2.1
 8270c
 NEW
 5
 PT
 CLP3.2
 CLP4.2

Method Sections To Run On A Barcode Mismatch
 (X) Full Method (X) Inject Anyway
 () Reprocessing Only () Don't Inject

IS = 194-183-6

Line Type	Vial	DataFile	Method	Sample Name
1 Sample	100	D1024WUP	CLPLOW	warm up 20/80
2 Sample	1127-8.24001	D1024DFT	DFTHP90	dftpp (25ug/ml) 194-175-8
3 Sample	CLP2.1	D1024CCC	CLPLOW	sstd20 (20/80ug/ml) 77-02-15
4 Sample	PQT SURVOK4	D1024002	CLPLOW	c0j100239-020 4x h2o 10/13/00
5 Sample	PQT-MEMBERS	D1024001	CLPLOW	c0j100241-sblk h2o 10/13/00 c
6 Sample	NEW	D1024CC1	70EARLY	SSTD020 (10ug/ml) 77-01-5 827
7 Sample	NEW	D1024CC2	70EARLY	SSTD050 (25ug/ml) 77-03-1 827
8 Sample	5	D1024CC3	70EARLY	SSTD080 (40ug/ml) 77-01-7 827
9 Sample	DONT NEED	D1024CB1	70EARLY	SSTD020 (10ug/ml) 77-01-5 827
10 Sample	POINT	D1024CC4	70EARLY	SSTD120 (60ug/ml) 77-01-8 827
11 Sample	POINT	D1024CC5	70EARLY	SSTD160 (80ug/ml) 77-01-9 827
12 Sample	1	D1024DF2	DFTHP90	dftpp (25ug/ml) 194-175-8
13 Sample	7	D1024CC7	CLP	SSTD050 (25ug/ml) 77-03-1 827
14 Sample	11	D1024003	CLP	std ver
15 Sample	12	D1024004	CLP	c0j200195-sblk soil 10/22/00
16 Sample	13	D1024005	CLP	c0j200195-lcs soil 10/22/00 c
17 Sample	14	D1024006	CLP	c0j200195-001 soil 10/22/00 c
18 Sample	15	D1024007	CLP	c0j200195-001ms soil 10/22/00
19 Sample	16	D1024008	CLP	c0j200195-001msd soil 10/22/0
20 Sample	17	D1024009	CLP	c0j190175-sblk soil 10/19/00
21 Sample	18	D1024010	CLP	c0j190175-lcs soil 10/19/00 c
22 Sample	19	D1024011	CLP	c0j190175-001 soil 10/19/00 c
23 Sample	20	D1024012	CLP	c0j190175-001ms soil 10/19/00
24 Sample	21	D1024013	CLP	c0j190175-001msd soil 10/19/0
25 Sample	22	D1024014	CLP	c0j190175-002 soil 10/19/00 c
26 Sample	23	D1024015	CLP	c0j190175-003 5x soil 10/19/0
27 Sample	24	D1024016	CLP	c0j190175-004 2x soil 10/19/0
28 Sample	25	D1024017	CLP	c0j190175-006 soil 10/19/00 c
29 Sample	26	D1024018	CLP	c0j190175-007 soil 10/19/00 c
30 Sample	27	D1024019	CLP	c0j190175-008 soil 10/19/00 c
31 Sample	28	D1024020	CLP	c0j190175-009 soil 10/19/00 c
32 Sample	29	D1024021	CLP	c0j200201-sblk soil 10/22/00
33 Sample	30	D1024022	CLP	c0j200201-lcs soil 10/22/00 c
34 Sample	31	D1024023	CLP	c0j200201-001 soil 10/22/00 c
35 Sample	32	D1024024	CLP	c0j200201-001ms soil 10/22/00
36 Sample	33	D1024025	CLP	c0j200201-001msd soil 10/22/0
37 Sample	34	D1024026	CLP	c0j200201-002 2x soil 10/22/0
38 Sample	35	D1024027	CLP	blank
39 Sample	35	D1024028	CLP	blank

Sequence Name: D:\HPCHEM\1\SEQUENCE\D102600.S
 Comment: STL PITT HP5972-1 Log 2ul inj 100ul + 1ul IS
 Operator: 001562, DLF
 Data Path: D:\HPCHEM\1\DATA\d102600.b\
 Pre-Seq Cmd:
 Post-Seq Cmd:

OK
 10-26-00

CLP
 2.1
 4.2
 3.2

Method Sections To Run On A Barcode Mismatch
 (X) Full Method (X) Inject Anyway
 () Reprocessing Only () Don't Inject

Line Type	Vial	DataFile	Method	Sample Name
1 Sample ✓	100	D1026WUP	70EARLY	warm up 25
2 Sample ✓	1142 10-26-00	D1026DFT	DFTHP90	dftpp (25ug/ml) 194-175-8
3 Sample	2	D1026CCC	CLP	SSTD050 (25ug/ml) 77-03-1 827
4 Sample ✓	CLP 2.1	D1026CC2	CLPLOW	sstd20 (20/80ug/ml) 77-02-15
5 Sample <i>PQT METH</i>	4	D1026001	CLPLOW	c0j120268-sblk h2o 10/17/00 c
6 Sample <i>PQT</i>	5	D1026002	CLPLOW	c0j120263-003 5x h2o 10/17/00
7 Sample ✓	1446 10-26-00	D1026DF2	DFTHP90	dftpp (25ug/ml) 194-175-8
8 Sample ✓	CLP 4.2/3.2	D1026CC3	CLP	SSTD050 (25ug/ml) 77-03-1 827
9 Sample <i>PQ</i>	6	D1026003	CLP ✓	c0j240227-sblk soil 10/25/00
10 Sample <i>PQ</i>	7	D1026004	CLP ✓	c0j240227-lcs soil 10/25/00 c
11 Sample <i>PQ one sure OK</i>	8	D1026005	CLP ✓	c0j240227-001 soil 10/25/00 c
12 Sample <i>PQ</i>	9	D1026006	CLP ✓	c0j240227-001ms soil 10/25/00
13 Sample <i>PQ</i>	10	D1026007	CLP ✓	c0j240227-001msd soil 10/25/00
14 Sample <i>PQ</i>	11	D1026008	CLP ✓	c0j240227-002 soil 10/25/00 c
15 Sample <i>PQ</i>	12	D1026009	CLP	c0j190175-005 soil 10/25/00 c
16 Sample <i>PQ</i>	13	D1026010	CLP	c0j200201-001 soil 10/25/00 c
17 Sample	14	D1026011	CLP	c0j140138-sblk h2o 10/17/00 c
18 Sample	15	D1026012	CLP	c0j140138-006 h2o 10/17/00 cl
19 Sample	16	D1026013	CLP	c0j160197-001 h2o 10/17/00 cl
20 Sample	17	D1026014	CLP	c0j140138-sblk soil 10/20/00
21 Sample	18	D1026015	CLP	c0j140138-001 2x soil 10/20/00
22 Sample	19	D1026016	CLP	c0j140138-001ms 2x soil 10/20/00
23 Sample	20	D1026017	CLP	c0j140138-001msd 2x soil 10/20/00
24 Sample	21	D1026018	CLP	c0j140138-002 soil 10/20/00
25 Sample	22	D1026019	CLP	c0j140138-003 soil 10/20/00 c
26 Sample	23	D1026020	CLP	c0j140138-004 soil 10/20/00 c
27 Sample	24	D1026021	CLP	c0j140138-005 soil 10/20/00 c
28 Sample	25	D1026022	CLP	c0j160197-003 soil 10/20/00 c
29 Sample	26	D1026023	CLP	c0j160197-004 soil 10/20/00 c
30 Sample	27	D1026024	CLP	c0j160197-005 soil 10/20/00 c
31 Sample	28	D1026025	CLP	c0j160197-006 soil 10/20/00 c
32 Sample	29	D1026026	CLP	blank
33 Sample	29	D1026027	CLP	blank
34				

GPC Log Sheet



STL Pittsburgh
 450 William Pitt Way
 Pittsburgh, Pennsylvania 15238
 412-820-8380

Date	Run #	Lot #	Collect: 25:00	Dump 27:54	Load 8.2	Wash 10:00	Inst ID "B"
	Projects: C0J240227, C0J190175, C0J200201		Sample I.D.	Client ID	Pos. No.	Comments	
1. 10-25-00	NA	C0J240227	BCK	NA	1	CLP BVA (C0M09.2)	
2.			LLS		2		
3.			001ms		3		
4.			001msp		4		
5.			001		5		
6.			002		6		
7.			005		7		
8.			001		8		
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							
Analyst	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.
Comments:							

Reviewed By: Ken Deady Date: 10-26-00

JD
-7
06
2
00

RUN # 1
GPC (G)
10-9-00
WEEKLY CAL

10-9-00
JD

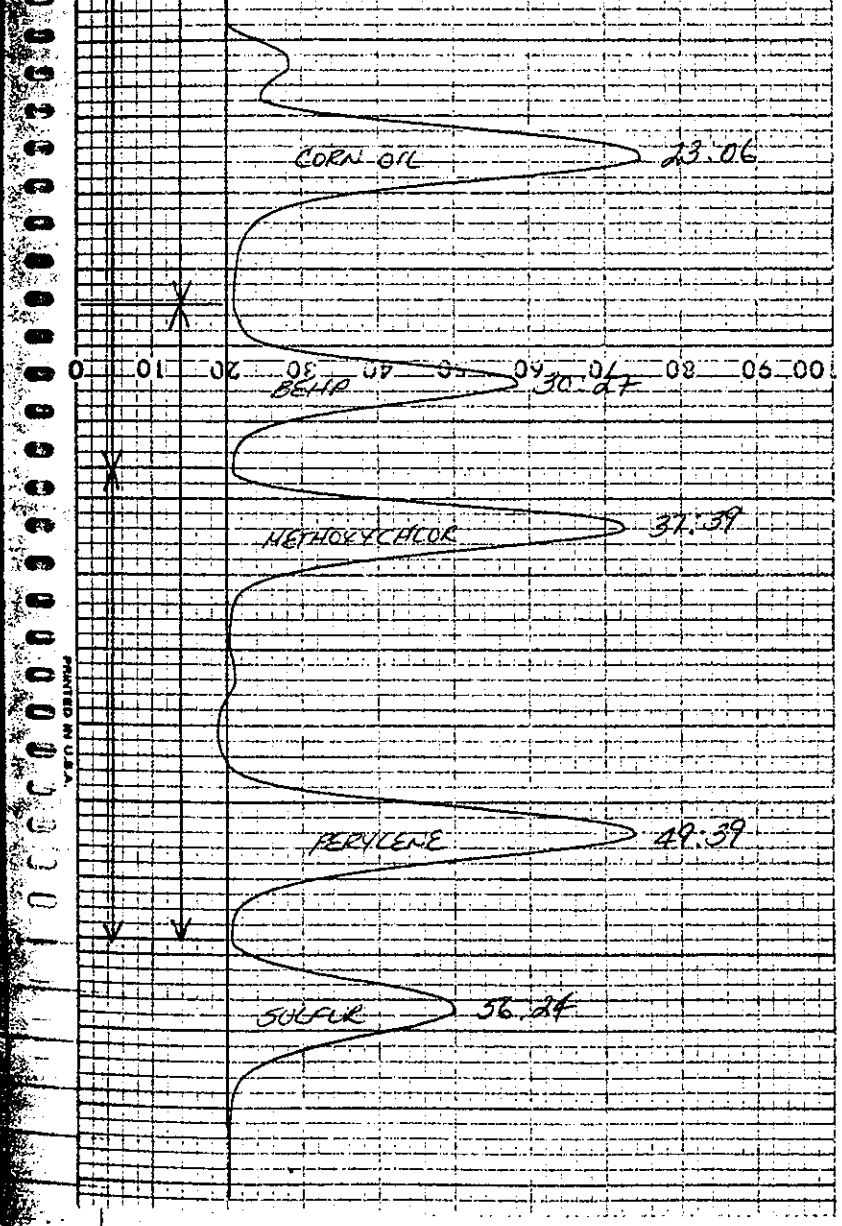
ANALYST: JD
STD ID: 186-16-7

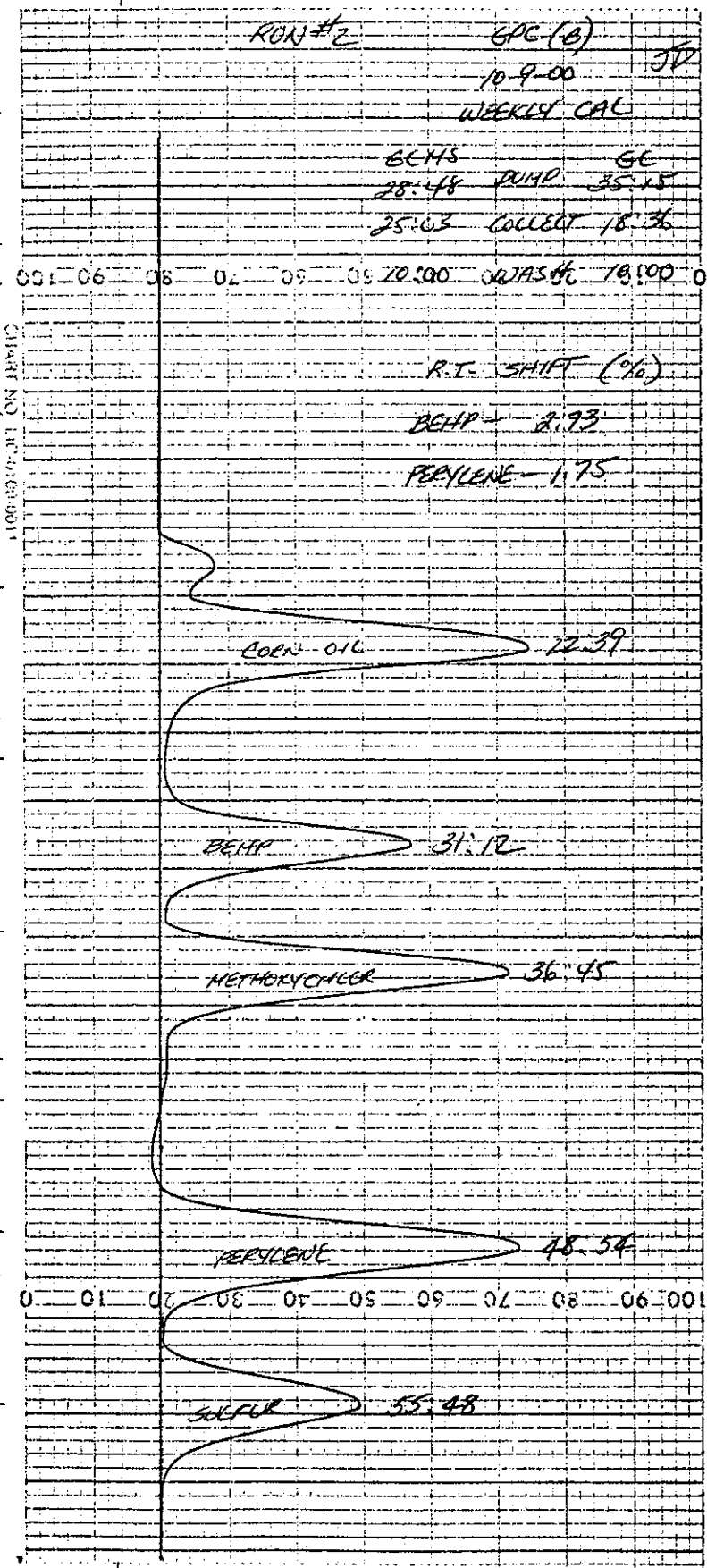
GCMS GC
28:48 DUMP 35:15
25:03 COLLECT 18:36
10:00 WASH 10:00

GCMS GC
28:48 DUMP 35:15
25:03 COLLECT 18:36
10:00 WASH 10:00

RESOLUTION (%)
CORN OIL/BEHP = 97.4
BEHP/METHOXYCHLOR = 97.4
PERYLENE/SULFUR = 98.3

start 10/9/00
end 10/16/00





RUN# 2
 GPC (G)
 10-9-00
 WEEKLY CAL
 GCMS
 28:48 DUMP
 25:03 COLLECT
 18:36

R.T. SHIFT (%)
 BEHP - 2.73
 PERSICENT - 1.75

10-9-00

ANALYST: JD
 STD ID: 186-16-7

GCMS GC
 28:48 DUMP 35:15
 25:03 COLLECT 18:36
 10:00 WASH 10:00

RUN #1

GC(B)

06 08 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100

WEEKLY CAL

10-19-00

GCMS GC
 27:54 28:48 DUMP 34:30
 25:30 25:03 COLLECT 18:54
 10:00 10:00 WASH 10:00
 10:19-00 10:00

ANALYST: JD

STD ID: 186-16-8

GCMS GC

27:54 DUMP 34:30

25:30 COLLECT 18:54

10:00 WASH 10:00

START 10-19-00

END 10-26-00

PEAK RESOLUTION (%)

COEN-OIL/BEHP = 97.4

BEHP/METHOXYCHLOR = 97.4

PERYLENE/SULFOR = 96.4

COEN OIL 22:48

BEHP 31:21

METHOXYCHLOR 37:12

PERYLENE 49:30

SULFOR 56:42

02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

6-7
5C
5:15
8:36
0:00

RUN #2

GPC (B)

10/19/00

WEEKLY CAL

10-19-00

27:54 DUMP 34:30

25:30 COLLECT 18:54

10:00 WASH 10:00

R.T. SHIFT (96)

ANALYST: JD

STD ID: 186-16-8

GCMS

GC

DUMP

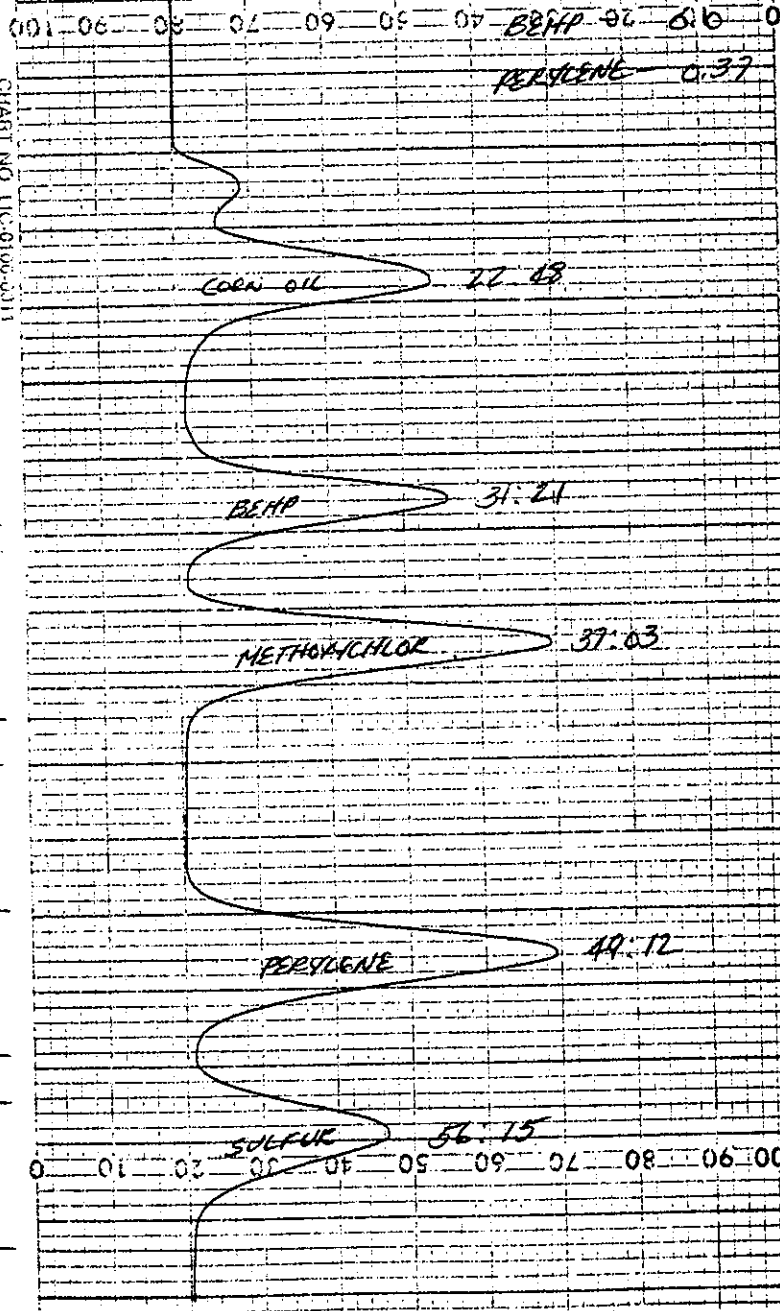
COLLECT

10:00 WASH 10:00

START 10-19-00

END 10-26-00

CHART NO. 110100-0011



REQUESTED BY: MILLERJ

METHOD: 00 Semi-Volatile Organic Compounds - CLP (OLM04.2)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
7A	DNE5D-1-AC	___	277099	061313	A-13-00	C0J190175	005		SOLID	0	1 1
8C,D	DNHW6-1-AC	___	277100	061313	A-13-00	C0J200201	001		SOLID	0	1 1
9D,E #	DNNGD-1-AC	___	277097	061313	A-13-00	C0J240227	001	QC	SOLID	0	1 1
9D,E ✓	DNNGF-1-AC	___	277098	061313	A-13-00	C0J240227	002		SOLID	0	1 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

<u>Brian A. Piro</u>	<u>Brian A. Piro</u>	<u>10-25-00 1330</u>
<u>Brian A. Piro</u>	<u>Brian A. Piro</u>	<u>10-25-00 2130</u>

***** END OF REPORT *****

METALS DATA

STL-Pittsburgh

Cover Page - Inorganic Analysis Data Package

<u>Client ID</u>	<u>Lab Sample ID:</u>
<u>PXS-21</u>	<u>DNNGD</u>
<u>PXS-21S</u>	<u>DNNGDS</u>
<u>PXS-21X</u>	<u>DNNGDX</u>
<u>PXS-22</u>	<u>DNNGF</u>

Comments: CUMMINGS RITER
C0J240227
ILM04.0

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____
Date: _____ Title: _____

REVIEWED BY: MTW
DATE: 10-30-00

**METALS
RESULTS**

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DNNGD Client ID: PXS-21
Matrix: Soil Units: mg/kg Prep Date: 10/25/00 Prep Batch: 0299184
Weight: 1.00 Volume: 200 Percent Moisture: 9.24

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.46	2.2	6.4		1	ICPST	10/27/00	19:45

Comments: Lot #: C0J240227 Sample #: 1 COLOR: PRE-BROWN POST-BROWN TEXTURE: PRE-MEDIUM POST-MEDIUM ARTIFACTS: STONES, PLANT MATERIAL

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DNNGF Client ID: PXS-22
Matrix: Soil Units: mg/kg Prep Date: 10/25/00 Prep Batch: 0299184
Weight: 1.00 Volume: 200 Percent Moisture: 11.02

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.47	2.3	6.6		1	ICPST	10/27/00	20:10

Comments: Lot #: C0J240227 Sample #: 2 COLOR: PRE-BROWN POST-BROWN TEXTURE: PRE-MEDIUM POST-MEDIUM ARTIFACTS: STONES, PLANT MATERIAL

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPST

Units: ug/L

Chart Number: T01027C.ARC

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: 0057-101-14

Element	WL/ Mass	True Conc	ICV3-1 10/27/00 3:40 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	250.0	250.16	100.1								

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: T01027C.ARC

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: 0057-122-2

Element	WL/ Mass	True Conc	CCV3-1 10/27/00 4:01 PM		CCV3-2 10/27/00 4:51 PM		CCV3-3 10/27/00 5:32 PM		CCV3-4 10/27/00 6:22 PM		CCV3-5 10/27/00 7:00 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	521.24	104.2	495.99	99.2	514.75	103.0	502.91	100.6	507.95	101.6

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: T01027C.ARC

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: 0057-122-2

Element	WL/ Mass	True Conc	CCV3-6 10/27/00 7:49 PM		CCV3-7 10/27/00 8:27 PM							
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	530.06	106.0	517.60	103.5						

STL-Pittsburgh

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPST

Units: ug/L

Chart Number: T01027C.ARC

Acceptable Range: 50% - 150%

Standard Source: Inorganic Ventures

Standard ID: 0057-079-2

Element	WL/ Mass	True Conc	CRI-1 10/27/00 3:48 PM		CRI-2 10/27/00 5:20 PM		CRI-3 10/27/00 6:47 PM		CRI-4 10/27/00 8:14 PM			
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	20.0	19.69	98.4	19.08	95.4	20.24	101.2	21.41	107.1		

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: T01027C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 10/27/00 3:44 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Arsenic	189.042	10	2.1	U								

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: T01027C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 10/27/00 4:05 PM		CCB2 10/27/00 4:55 PM		CCB3 10/27/00 5:36 PM		CCB4 10/27/00 6:26 PM		CCB5 10/27/00 7:04 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	10	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: T01027C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 10/27/00 7:54 PM		CCB7 10/27/00 8:31 PM		Found	Q	Found	Q
			Found	Q	Found	Q				
Arsenic	189.042	10	2.1	U	2.1	U				

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DNPLAB

Matrix: Soil Units: mg/kg Prep Date: 10/25/00 Prep Batch: 0299184

Weight: 1.00 Volume: 200 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.42	2.0	0.42	U	1	ICPST	10/27/00	19:37

Comments: Lot #: C0J240227

Version 4.10.2

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: T01027C.ARC

Acceptable Range: 0% - 0%

Standard Source: Inorganic Ventures

Standard ID: 0057-115-1

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 10/27/00 3:53 PM	ICSA 10/27/00 5:24 PM	ICSA 10/27/00 6:51 PM	ICSA 10/27/00 8:19 PM	Found
				Found	Found	Found	Found	
Arsenic	189.042	10		0	1	0	2	

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: T01027C.ARC

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: 0057-104-1

Element	WL/ Mass	True Conc	ICSAB 10/27/00 3:57 PM		ICSAB 10/27/00 5:28 PM		ICSAB 10/27/00 6:55 PM		ICSAB 10/27/00 8:23 PM			
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	100	106.4	106.4	106.0	106.0	103.4	103.4	104.4	104.4		

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DNNGDS
Original Sample ID: DNNGD **Client ID:** PXS-21S
Matrix: Soil **Units:** mg/kg **Prep Date:** 10/25/00 **Prep Batch:** 0299184
Weight: 1.00 **Volume:** 200 **Percent Moisture:** 9.24

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	6.4		13.9		8.8145	84.9	1	1	ICPST	10/27/00	19:45	10/27/00	20:06

Comments: Lot #: C0J240227 Sample #: 1

Version 4.10.2

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Duplicate Sample Results

Lab Sample ID: DNNGDX Client ID: PXS-21X
Matrix: Soil Units: mg/kg Prep Date: 10/25/00 Prep Batch: 0299184
Weight: 1.00 Volume: 200 Percent Moisture: 9.24

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.46	2.2	6.8		1	ICPST	10/27/00	20:02

Comments: Lot #: C0J240227 Sample #: 1

STL-Pittsburgh

Metals Data Reporting Form

Sample Duplicate RPD Report

Duplicate Sample ID: DNNGDX
Original Sample ID: DNNGD **Client ID:** PXS-21X
Matrix: Soil **Units:** mg/kg **Prep Date:** 10/25/00 **Prep Batch:** 0299184
Weight: 1.00 **Volume:** 200 **Percent Moisture:** 9.24

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	6.4		6.8		0.4 %	1	1	ICPST	10/27/00	19:45	10/27/00	20:02

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DNPLAC

Matrix: Soil Units: mg/kg Prep Date: 10/25/00 Prep Batch: 0299184

Weight: 1.00 Volume: 200 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	136	135	98.9		75-125	1	ICPST	10/27/00	19:41

Comments: Lot #: C0J240227

Version 4.10.2

U Result is less than the IDL
B Result is between IDL and RL

Form 7 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DNNGDP

Original Sample ID: DNNGD Client ID: PXS-21

Matrix: Soil Units: mg/kg Prep Date: 10/25/00 Prep Batch: 0299184

Weight: 1.00 Volume: 200 Percent Moisture: 9.24

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	6.4		6.3	B		1	5	ICPST	10/27/00	19:45	10/27/00	19:58

Comments: _____

STL-Pittsburgh
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ppb

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Arsenic	189.04	10	2.1	10/5/00

STL-Pittsburgh

Metals Data Reporting Form

Inter-Element Correction Factors

Instrument: ICPST

Date of IEC's: 10/13/00

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	Pb(-0.000163)
Aluminum	308.215	Pb(0.000539)
Chromium	267.716	Sb(0.007445)
Chromium	267.716	As(-0.003079), Sb(0.013117)
Cobalt	228.616	Pb(0.000043), Se(-0.000467)
Cobalt	228.616	Cd(-0.000073), Fe(0.086957), Ni(-0.000735), Pb(0.000049), Se(0.000496), Tl(0.002407)
Iron	271.441	Cd(0.000118), Pb(0.000082), Sb(0.000025), Se(-0.00001), Tl(-0.000021), V(-0.000341), Zn(0.000124)
Iron	271.441	Pb(0.000048), Se(-0.000347)
Magnesium	279.078	Fe(-0.00058)
Manganese	257.61	Se(-0.000214), Tl(-0.003614)
Manganese	257.61	Se(0.000533)
Molybdenum	202.03	As(-0.000927), Pb(-0.000446), Sb(-0.002435), Tl(-0.000488)
Molybdenum	202.03	Pb(-0.000742), Sb(-0.011507), Se(0.000246)
Nickel	231.604	Pb(0.000124)
Nickel	231.604	Pb(0.000274), Sb(-0.00125), Zn(0.005251)
Vanadium	292.402	Al(0.020017), Be(-0.008152), Cr(-0.00015), Fe(0.009334), Sb(-0.008099), Se(0.000269), Tl(0.001468)
Vanadium	292.402	Pb(-0.000307), Se(0.000106)

STL-Pittsburgh
Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPST

Units: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Arsenic	189.04	10000	10/5/00

STL-Pittsburgh
Metals Data Reporting Form

Preparation Log

Preparation Batch: 0299184 **Instrument:** ICP **Matrix:** Soil

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DNPLAB	10/25/00	1.00	200	NA
DNPLAC	10/25/00	1.00	200	NA
DNNGD	10/25/00	1.00	200	9.24
DNNGDS	10/25/00	1.00	200	9.24
DNNGDX	10/25/00	1.00	200	9.24
DNNGF	10/25/00	1.00	200	11.02

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: T01027C.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		10/27/00	15:07
ZZZZZZ		10/27/00	15:11
ZZZZZZ		10/27/00	15:15
ZZZZZZ		10/27/00	15:19
STD1		10/27/00	15:28
STD6		10/27/00	15:32
STD7		10/27/00	15:36
ICV3-1		10/27/00	15:40
ICB1		10/27/00	15:44
CRI-1		10/27/00	15:48
ICSA		10/27/00	15:53
ICSAB		10/27/00	15:57
CCV3-1		10/27/00	16:01
CCB1		10/27/00	16:05
ZZZZZZ		10/27/00	16:09
ZZZZZZ		10/27/00	16:13
ZZZZZZ		10/27/00	16:18
ZZZZZZ		10/27/00	16:22
ZZZZZZ		10/27/00	16:26
ZZZZZZ		10/27/00	16:30
ZZZZZZ		10/27/00	16:34
ZZZZZZ		10/27/00	16:38
ZZZZZZ		10/27/00	16:42
ZZZZZZ		10/27/00	16:47
CCV3-2		10/27/00	16:51
CCB2		10/27/00	16:55
ZZZZZZ		10/27/00	16:59
ZZZZZZ		10/27/00	17:03
ZZZZZZ		10/27/00	17:07
ZZZZZZ		10/27/00	17:12
ZZZZZZ		10/27/00	17:16
CRI-2		10/27/00	17:20
ICSA		10/27/00	17:24
ICSAB		10/27/00	17:28
CCV3-3		10/27/00	17:32
CCB3		10/27/00	17:36
ZZZZZZ		10/27/00	17:41
ZZZZZZ		10/27/00	17:45
ZZZZZZ		10/27/00	17:49

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: T01027C.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		10/27/00	17:53
ZZZZZZ		10/27/00	17:57
ZZZZZZ		10/27/00	18:01
ZZZZZZ		10/27/00	18:06
ZZZZZZ		10/27/00	18:10
ZZZZZZ		10/27/00	18:14
ZZZZZZ		10/27/00	18:18
CCV3-4		10/27/00	18:22
CCB4		10/27/00	18:26
ZZZZZZ		10/27/00	18:30
ZZZZZZ		10/27/00	18:35
ZZZZZZ		10/27/00	18:39
ZZZZZZ		10/27/00	18:43
CRI-3		10/27/00	18:47
ICSA		10/27/00	18:51
ICSAB		10/27/00	18:55
CCV3-5		10/27/00	19:00
CCB5		10/27/00	19:04
ZZZZZZ		10/27/00	19:08
ZZZZZZ		10/27/00	19:12
ZZZZZZ		10/27/00	19:16
ZZZZZZ		10/27/00	19:20
ZZZZZZ		10/27/00	19:25
ZZZZZZ		10/27/00	19:29
ZZZZZZ		10/27/00	19:33
DNPLAB		10/27/00	19:37
DNPLAC		10/27/00	19:41
DNNGD	PXS-21	10/27/00	19:45
CCV3-6		10/27/00	19:49
CCB6		10/27/00	19:54
DNNGDP	PXS-21	10/27/00	19:58
DNNGDX	PXS-21X	10/27/00	20:02
DNNGDS	PXS-21S	10/27/00	20:06
DNNGF	PXS-22	10/27/00	20:10
CRI-4		10/27/00	20:14
ICSA		10/27/00	20:19
ICSAB		10/27/00	20:23
CCV3-7		10/27/00	20:27
CCB7		10/27/00	20:31

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: T01027C.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		10/27/00	20:38
ZZZZZZ		10/27/00	20:42
ZZZZZZ		10/27/00	20:46
ZZZZZZ		10/27/00	20:50
ZZZZZZ		10/27/00	20:54
ZZZZZZ		10/27/00	20:58
ZZZZZZ		10/27/00	21:03
ZZZZZZ		10/27/00	21:07
ZZZZZZ		10/27/00	21:11
ZZZZZZ		10/27/00	21:15
ZZZZZZ		10/27/00	21:19
ZZZZZZ		10/27/00	21:23
ZZZZZZ		10/27/00	21:28
ZZZZZZ		10/27/00	21:32
ZZZZZZ		10/27/00	21:36
ZZZZZZ		10/27/00	21:41
ZZZZZZ		10/27/00	21:45
ZZZZZZ		10/27/00	21:49
ZZZZZZ		10/27/00	21:53
ZZZZZZ		10/27/00	21:58
ZZZZZZ		10/27/00	22:02
ZZZZZZ		10/27/00	22:09
ZZZZZZ		10/27/00	22:13
ZZZZZZ		10/27/00	22:17
ZZZZZZ		10/27/00	22:21
ZZZZZZ		10/27/00	22:25
ZZZZZZ		10/27/00	22:30
ZZZZZZ		10/27/00	22:34
ZZZZZZ		10/27/00	22:38
ZZZZZZ		10/27/00	22:42
ZZZZZZ		10/27/00	22:46
ZZZZZZ		10/27/00	22:50
ZZZZZZ		10/27/00	22:55
ZZZZZZ		10/27/00	22:59
ZZZZZZ		10/27/00	23:03
ZZZZZZ		10/27/00	23:07
ZZZZZZ		10/27/00	23:11
ZZZZZZ		10/27/00	23:15
ZZZZZZ		10/27/00	23:20

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: T01027C.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
<i>ZZZZZZ</i>		10/27/00	23:24
<i>ZZZZZZ</i>		10/27/00	23:28
<i>ZZZZZZ</i>		10/27/00	23:32

**METALS
RAW DATA**

COJ240227

Sample Name *Revised 10/27/00* AS

1	STD1	-.00686
2	STD6	5.39852
3	STD7	
4	ICV3-1 0057-101-14	.25016
5	ICB1	-.00114
6	CRI-1 0057-079-2	.01969
7	ICSA 0057-115-1	.00024
8	ICSAB 0057-104-1	.10639
9	CCV3-1 0057-122-2	.52124
10	CCB1	-.00105
11	DND52B	-.00098
12	DND52C	2.2698
13	DM3ET	.00391
14	DM3EX	.00000
15	DM3E1	-.00082
16	DM3E2	-.00003
17	DM3E4	.00023
18	DM3E6	-.00073
19	DM3E8	.00180
20	DM3FD	-.00096
21	CCV3-2	.49599
22	CCB2	-.00074
23	DM3FF	.00107
24	DM3FG	-.00014
25	DM3FGP5	-.00078
26	DM3FGX	-.00055
27	DM3FGS	.04355
28	CRI-2	.01908
29	ICSA 0057-115-1	.00112
30	ICSAB 0057-104-1	.10601
31	CCV3-3	.51475
32	CCB3	.00058
33	DM3FH	.00005
34	DM3FN	.00103
35	DM3FP	.00042
36	DNAWWBF	-.00188
37	DNAWWCF	2.0951
38	DM3ETF	.00196
39	DM3EXF	-.00039
40	DM3E1F	.00025
41	DM3E2F	-.00047
42	DM3E4F	-.00031
43	CCV3-4	.50291
44	CCB4	-.00041
45	DM3E6F	-.00109
46	DM3E8F	.00115
47	DM3FDF	-.00098
48	DM3FFF	-.00001
49	CRI-3	.02024
50	ICSA 0057-115-1	-.00010
51	ICSAB 0057-104-1	.10344
52	CCV3-5	.50795
53	CCB5	.00056

#	Sample Name	AS
54	DM3FGF	-.00032
55	DM3FGP5F	.00150
56	DM3FGXF	-.00166
57	DM3FGSF	.04341
58	DM3FHF	-.00045
59	DM3FNF	-.00115
60	DM3FPF	-.00093
61	DNPLAB	-.00147
62	DNPLAC	.67231
63	DNNGD	.02917
64	CCV3-6	.53006
65	CCB6	-.00145
66	DNNGDP5	.00567
67	DNNGDX	.03082
68	DNNGDS	.06315
69	DNNGF	.02956
70	CRI-4	.02141
71	ICSA 0057-115-1	.00217
72	ICSAB 0057-104-1	.10436
73	CCV3-7	.51760
74	CCB7	.00013
75	DND69B	-.00075
76	DND69C	.64070
77	DM7NA	.19444
78	DM7NAP5	.03908
79	DM7NAX	.18150
80	DM7NAS	.22353
81	DND6EB	-.00081
82	DND6EC	1.9763
83	DND6EL	H2.7857
84	DM7M6	.00060
85	CCV3-8	.51637
86	CCB8	-.00071
87	DM7M7	.00121
88	DM7M9	.00138
89	DM7NG	.00095
90	DM7NAA Sb=.12ppm	.31156
91	CRI-5	.02057
92	ICSA 0057-115-1	.00134
93	ICSAB 0057-104-1	.10369
94	CCV3-9	.50797
95	CCB9	-.00068
96	DLQA5	-.00003
97	DLQ9C	-.00023
98	DLQ9H	.01269
99	DLQ9M	.00096
100	DLQ9X	.00290
101	DLVTW	.00203
102	DNPCLB	.00053
103	DNPCLC	2.0569
104	DM9RW	.01837
105	DM9RWP5	.00327
106	CCV3-10	.50638
107	CCB10	-.00095

#	Sample Name	AS
108	DM9RWX	.01812
109	DM9RWS	.06071
110	DM9R0	.00318
111	DM9R1	.01306
112	CRI-6	.02090
113	ICSA 0057-115-1	-.00076
114	ICSAB 0057-104-1	.10207
115	CCV3-11	.51349
116	CCB11	-.00029

RB 10/27/00

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	T01027C	METTRA	10/27/00	15:28		X	IR
2	STD6	T01027C	METTRA	10/27/00	15:32		X	IR
3	STD7	T01027C	METTRA	10/27/00	15:36		X	IR
4	ICV3-1 0057-101-14	T01027C	METTRA	10/27/00	15:40	RJG	S	CONC
5	ICB1	T01027C	METTRA	10/27/00	15:44	RJG	S	CONC
6	CRI-1 0057-079-2	T01027C	METTRA	10/27/00	15:48	RJG	S	CONC
7	ICSA 0057-115-1	T01027C	METTRA	10/27/00	15:53	RJG	Q	CONC
8	ICSAB 0057-104-1	T01027C	METTRA	10/27/00	15:57	RJG	Q	CONC
9	CCV3-1 0057-122-2	T01027C	METTRA	10/27/00	16:01	RJG	S	CONC
10	CCB1	T01027C	METTRA	10/27/00	16:05	RJG	S	CONC
11	DND52B	T01027C	METTRA	10/27/00	16:09	RJG	S	CONC
12	DND52C	T01027C	METTRA	10/27/00	16:13	RJG	S	CONC
13	DM3ET	T01027C	METTRA	10/27/00	16:18	RJG	S	CONC
14	DM3EX	T01027C	METTRA	10/27/00	16:22	RJG	S	CONC
15	DM3E1	T01027C	METTRA	10/27/00	16:26	RJG	S	CONC
16	DM3E2	T01027C	METTRA	10/27/00	16:30	RJG	S	CONC
17	DM3E4	T01027C	METTRA	10/27/00	16:34	RJG	S	CONC
18	DM3E6	T01027C	METTRA	10/27/00	16:38	RJG	S	CONC
19	DM3E8	T01027C	METTRA	10/27/00	16:42	RJG	S	CONC
20	DM3FD	T01027C	METTRA	10/27/00	16:47	RJG	S	CONC
21	CCV3-2	T01027C	METTRA	10/27/00	16:51	RJG	S	CONC
22	CCB2	T01027C	METTRA	10/27/00	16:55	RJG	S	CONC
23	DM3FF	T01027C	METTRA	10/27/00	16:59	RJG	S	CONC
24	DM3FG	T01027C	METTRA	10/27/00	17:03	RJG	S	CONC
25	DM3FGP5	T01027C	METTRA	10/27/00	17:07	RJG	S	CONC
26	DM3FGX	T01027C	METTRA	10/27/00	17:12	RJG	S	CONC
27	DM3FGS	T01027C	METTRA	10/27/00	17:16	RJG	S	CONC
28	CRI-2	T01027C	METTRA	10/27/00	17:20	RJG	S	CONC
29	ICSA 0057-115-1	T01027C	METTRA	10/27/00	17:24	RJG	Q	CONC
30	ICSAB 0057-104-1	T01027C	METTRA	10/27/00	17:28	RJG	Q	CONC
31	CCV3-3	T01027C	METTRA	10/27/00	17:32	RJG	S	CONC
32	CCB3	T01027C	METTRA	10/27/00	17:36	RJG	S	CONC
33	DM3FH	T01027C	METTRA	10/27/00	17:41	RJG	S	CONC
34	DM3FN	T01027C	METTRA	10/27/00	17:45	RJG	S	CONC
35	DM3FP	T01027C	METTRA	10/27/00	17:49	RJG	S	CONC
36	DNAWWBF	T01027C	METTRA	10/27/00	17:53	RJG	S	CONC
37	DNAWWCF	T01027C	METTRA	10/27/00	17:57	RJG	S	CONC
38	DM3ETF	T01027C	METTRA	10/27/00	18:01	RJG	S	CONC
39	DM3EXF	T01027C	METTRA	10/27/00	18:06	RJG	S	CONC
40	DM3E1F	T01027C	METTRA	10/27/00	18:10	RJG	S	CONC
41	DM3E2F	T01027C	METTRA	10/27/00	18:14	RJG	S	CONC
42	DM3E4F	T01027C	METTRA	10/27/00	18:18	RJG	S	CONC
43	CCV3-4	T01027C	METTRA	10/27/00	18:22	RJG	S	CONC
44	CCB4	T01027C	METTRA	10/27/00	18:26	RJG	S	CONC
45	DM3E6F	T01027C	METTRA	10/27/00	18:30	RJG	S	CONC
46	DM3E8F	T01027C	METTRA	10/27/00	18:35	RJG	S	CONC
47	DM3FDF	T01027C	METTRA	10/27/00	18:39	RJG	S	CONC
48	DM3FFF	T01027C	METTRA	10/27/00	18:43	RJG	S	CONC
49	CRI-3	T01027C	METTRA	10/27/00	18:47	RJG	S	CONC
50	ICSA 0057-115-1	T01027C	METTRA	10/27/00	18:51	RJG	Q	CONC
51	ICSAB 0057-104-1	T01027C	METTRA	10/27/00	18:55	RJG	Q	CONC
52	CCV3-5	T01027C	METTRA	10/27/00	19:00	RJG	S	CONC
53	CCB5	T01027C	METTRA	10/27/00	19:04	RJG	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	DM3FGF	T01027C	METTRA	10/27/00	19:08	RJG	S	CONC
55	DM3FGP5F	T01027C	METTRA	10/27/00	19:12	RJG	S	CONC
56	DM3FGXF	T01027C	METTRA	10/27/00	19:16	RJG	S	CONC
57	DM3FGSF	T01027C	METTRA	10/27/00	19:20	RJG	S	CONC
58	DM3FHF	T01027C	METTRA	10/27/00	19:25	RJG	S	CONC
59	DM3FNF	T01027C	METTRA	10/27/00	19:29	RJG	S	CONC
60	DM3FPF	T01027C	METTRA	10/27/00	19:33	RJG	S	CONC
61	DNPLAB	T01027C	METTRA	10/27/00	19:37	RJG	S	CONC
62	DNPLAC	T01027C	METTRA	10/27/00	19:41	RJG	S	CONC
63	DNNGD	T01027C	METTRA	10/27/00	19:45	RJG	S	CONC
64	CCV3-6	T01027C	METTRA	10/27/00	19:49	RJG	S	CONC
65	CCB6	T01027C	METTRA	10/27/00	19:54	RJG	S	CONC
66	DNNGDP5	T01027C	METTRA	10/27/00	19:58	RJG	S	CONC
67	DNNGDX	T01027C	METTRA	10/27/00	20:02	RJG	S	CONC
68	DNNGDS	T01027C	METTRA	10/27/00	20:06	RJG	S	CONC
69	DNNGF	T01027C	METTRA	10/27/00	20:10	RJG	S	CONC
70	CRI-4	T01027C	METTRA	10/27/00	20:14	RJG	S	CONC
71	ICSA 0057-115-1	T01027C	METTRA	10/27/00	20:19	RJG	Q	CONC
72	ICSAB 0057-104-1	T01027C	METTRA	10/27/00	20:23	RJG	Q	CONC
73	CCV3-7	T01027C	METTRA	10/27/00	20:27	RJG	S	CONC
74	CCB7	T01027C	METTRA	10/27/00	20:31	RJG	S	CONC
75	DND69B	T01027C	METTRA	10/27/00	20:38	RJG	S	CONC
76	DND69C	T01027C	METTRA	10/27/00	20:42	RJG	S	CONC
77	DM7NA	T01027C	METTRA	10/27/00	20:46	RJG	S	CONC
78	DM7NAP5	T01027C	METTRA	10/27/00	20:50	RJG	S	CONC
79	DM7NAX	T01027C	METTRA	10/27/00	20:54	RJG	S	CONC
80	DM7NAS	T01027C	METTRA	10/27/00	20:58	RJG	S	CONC
81	DND6EB	T01027C	METTRA	10/27/00	21:03	RJG	S	CONC
82	DND6EC	T01027C	METTRA	10/27/00	21:07	RJG	S	CONC
83	DND6EL	T01027C	METTRA	10/27/00	21:11	RJG	S	CONC
84	DM7M6	T01027C	METTRA	10/27/00	21:15	RJG	S	CONC
85	CCV3-8	T01027C	METTRA	10/27/00	21:19	RJG	S	CONC
86	CCB8	T01027C	METTRA	10/27/00	21:23	RJG	S	CONC
87	DM7M7	T01027C	METTRA	10/27/00	21:28	RJG	S	CONC
88	DM7M9	T01027C	METTRA	10/27/00	21:32	RJG	S	CONC
89	DM7NG	T01027C	METTRA	10/27/00	21:36	RJG	S	CONC
90	DM7NAA Sb=.12ppm	T01027C	METTRA	10/27/00	21:41	RJG	S	CONC
91	CRI-5	T01027C	METTRA	10/27/00	21:45	RJG	S	CONC
92	ICSA 0057-115-1	T01027C	METTRA	10/27/00	21:49	RJG	Q	CONC
93	ICSAB 0057-104-1	T01027C	METTRA	10/27/00	21:53	RJG	Q	CONC
94	CCV3-9	T01027C	METTRA	10/27/00	21:58	RJG	S	CONC
95	CCB9	T01027C	METTRA	10/27/00	22:02	RJG	S	CONC
96	DLQA5	T01027C	METTRA	10/27/00	22:09	RJG	S	CONC
97	DLQ9C	T01027C	METTRA	10/27/00	22:13	RJG	S	CONC
98	DLQ9H	T01027C	METTRA	10/27/00	22:17	RJG	S	CONC
99	DLQ9M	T01027C	METTRA	10/27/00	22:21	RJG	S	CONC
100	DLQ9X	T01027C	METTRA	10/27/00	22:25	RJG	S	CONC
101	DLVTW	T01027C	METTRA	10/27/00	22:30	RJG	S	CONC
102	DNPCLB	T01027C	METTRA	10/27/00	22:34	RJG	S	CONC
103	DNPCLC	T01027C	METTRA	10/27/00	22:38	RJG	S	CONC
104	DM9RW	T01027C	METTRA	10/27/00	22:42	RJG	S	CONC
105	DM9RWP5	T01027C	METTRA	10/27/00	22:46	RJG	S	CONC
106	CCV3-10	T01027C	METTRA	10/27/00	22:50	RJG	S	CONC
107	CCB10	T01027C	METTRA	10/27/00	22:55	RJG	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
108	DM9RWX	T01027C	METTRA	10/27/00	22:59	RJG	S	CONC
109	DM9RWS	T01027C	METTRA	10/27/00	23:03	RJG	S	CONC
110	DM9R0	T01027C	METTRA	10/27/00	23:07	RJG	S	CONC
111	DM9R1	T01027C	METTRA	10/27/00	23:11	RJG	S	CONC
112	CRI-6	T01027C	METTRA	10/27/00	23:15	RJG	S	CONC
113	ICSA 0057-115-1	T01027C	METTRA	10/27/00	23:20	RJG	Q	CONC
114	ICSAB 0057-104-1	T01027C	METTRA	10/27/00	23:24	RJG	Q	CONC
115	CCV3-11	T01027C	METTRA	10/27/00	23:28	RJG	S	CONC
116	CCB11	T01027C	METTRA	10/27/00	23:32	RJG	S	CONC

Method: METTRA Standard: STD1

Run Time: 10/27/00 15:28:36

Elem	AG	AL	AS	BA	BE	CA	CD
Avge	-.00328	.09676	-.00687	.00120	-.04244	.00293	.00208
SDev	.00414	.00219	.00315	.00022	.00093	.00000	.00026
%RSD	126.00	2.2618	45.878	18.458	2.2018	.14478	12.550
#1	-.00621	.09522	-.00464	.00105	-.04178	.00293	.00227
#2	-.00036	.09831	-.00909	.00136	-.04311	.00294	.00190
Elem	CO	CR	CU	FE	MG	MN	MO
Avge	-.00099	.00231	.00505	-.00095	-.00010	.00127	.00202
SDev	.00023	.00169	.00019	.00083	.00045	.00022	.00049
%RSD	23.460	73.162	3.8259	87.918	439.66	17.537	24.129
#1	-.00115	.00112	.00492	-.00153	-.00042	.00112	.00167
#2	-.00082	.00351	.00519	-.00036	.00021	.00143	.00236
Elem	NI	PB/1	PB/2	SB/1	SB/2	SE/1	SE/2
Avge	.00082	.03175	-.00448	-.00157	.00774	-.10649	.06828
SDev	.00086	.00249	.00683	.00578	.00354	.00312	.00229
%RSD	105.36	7.8287	152.43	367.23	45.775	2.9279	3.3474
#1	.00021	.03000	.00035	.00251	.00523	-.10429	.06990
#2	.00143	.03351	-.00931	-.00566	.01024	-.10869	.06666
Elem	TL	V_	ZN				
Avge	-.03116	.00043	-.00037				
SDev	.00377	.00061	.00007				
%RSD	12.101	141.42	18.389				
#1	-.03383	.00000	-.00042				
#2	-.02850	.00086	-.00032				

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14151	--	--	--	--	--	--
SDev	261.5943	--	--	--	--	--	--
%RSD	1.848628	--	--	--	--	--	--
#1	14336	--	--	--	--	--	--
#2	13966	--	--	--	--	--	--

Method: METTRA Standard: STD6
Run Time: 10/27/00 15:32:47

0057.078.11

Elem	AG	AS	CD	PB/1	PB/2	SB/1	SB/2
Avge	9.3822	5.3985	12.462	4.9781	6.7559	8.3172	4.6296
SDev	.0016	.0187	.025	.0251	.0080	.0191	.0160
%RSD	.01742	.34555	.20368	.50510	.11916	.22993	.34471

#1	9.3810	5.4117	12.480	4.9959	6.7616	8.3307	4.6409
#2	9.3833	5.3853	12.444	4.9603	6.7502	8.3037	4.6183

Elem	SE/1	SE/2	TL
Avge	4.7358	3.5720	3.3391
SDev	.0131	.0019	.0069
%RSD	.27763	.05338	.20780

#1	4.7451	3.5733	3.3342
#2	4.7265	3.5706	3.3440

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14642	--	--	--	--	--	--
SDev	18.70311	--	--	--	--	--	--
%RSD	.1277341	--	--	--	--	--	--

#1	14629	--	--	--	--	--	--
#2	14655	--	--	--	--	--	--

Method: METTRA Standard: STD7
 Run Time: 10/27/00 15:36:57

0057.07812

Elem	AL	BA	BE	CA	CO	CR	CU
Avge	6.4964	12.616	10.874	4.6508	2.6703	10.598	3.0457
SDev	.0209	.065	.020	.0093	.0029	.020	.0111
%RSD	.32099	.51470	.18792	.20000	.10883	.18977	.36406
#1	6.5111	12.662	10.889	4.6574	2.6723	10.612	3.0536
#2	6.4816	12.570	10.860	4.6442	2.6682	10.583	3.0379
Elem	FE	MG	MN	MO	NI	V	ZN
Avge	3.4636	12.867	8.6584	2.3546	2.0195	.79229	2.3921
SDev	.0053	.030	.0158	.0052	.0050	.00168	.0035
%RSD	.15330	.22992	.18259	.21994	.24569	.21248	.14642
#1	3.4674	12.888	8.6696	2.3509	2.0230	.79348	2.3946
#2	3.4599	12.846	8.6472	2.3583	2.0160	.79110	2.3897
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14226	--	--	--	--	--	--
SDev	6.363961	--	--	--	--	--	--
%RSD	.0447335	--	--	--	--	--	--
#1	14231	--	--	--	--	--	--
#2	14222	--	--	--	--	--	--

Method: METTRA

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD6	STD1	.213096	.000700	10/27/00 03:36:57
AL	308.215	STD7	STD1	7.82549	-.757229	10/27/00 03:36:57
AS	189.042	STD6	STD1	.185000	.001270	10/27/00 03:36:57
BA	493.409	STD7	STD1	.317082	-.000382	10/27/00 03:36:57
BE	313.042	STD7	STD1	.363422	.015425	10/27/00 03:36:57
CA	317.933	STD7	STD1	21.5151	-.063099	10/27/00 03:36:57
CD	226.502	STD6	STD1	.080257	-.000167	10/27/00 03:36:57
CO	228.616	STD7	STD1	1.49743	.001478	10/27/00 03:36:57
CR	267.716	STD7	STD1	.377466	-.000873	10/27/00 03:36:57
CU	324.753	STD7	STD1	1.31550	-.006649	10/27/00 03:36:57
FE	271.441	STD7	STD1	14.5262	.013746	10/27/00 03:36:57
MG	279.078	STD7	STD1	7.77183	.000792	10/27/00 03:36:57
MN	257.610	STD7	STD1	.462047	-.000589	10/27/00 03:36:57
MO	202.030	STD7	STD1	1.70026	-.003432	10/27/00 03:36:57
NI	231.604	STD7	STD1	1.98005	-.001625	10/27/00 03:36:57
PB/1	220.351	STD6	STD1	.202169	-.006419	10/27/00 03:36:57
PB/2	220.352	STD6	STD1	.147921	.000663	10/27/00 03:36:57
PB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SB/1	206.831	STD6	STD1	.120210	.000189	10/27/00 03:36:57
SB/2	206.832	STD6	STD1	.216364	-.001674	10/27/00 03:36:57
SB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SE/1	196.021	STD6	STD1	.206514	.021992	10/27/00 03:36:57
SE/2	196.022	STD6	STD1	.285414	-.019488	10/27/00 03:36:57
SE	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
TL	190.864	STD6	STD1	.593424	.018494	10/27/00 03:36:57
V	292.402	STD7	STD1	5.02982	-.002161	10/27/00 03:36:57
Zn	213.856	STD7	STD1	1.68325	.000623	10/27/00 03:36:57

Method: METTRA Sample Name: ICV3-1 0057-101-14 Operator: RJG
 Run Time: 10/27/00 15:40:38
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Revised
10/27/00

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50015	11.629	.25017	.98306	.97346	24.357	.24489
SDev	.00094	.055	.00171	.00104	.00114	.001	.00028
%RSD	.18783	.47456	.68290	.10558	.11678	.00328	.11406
#1	.49948	11.590	.24896	.98232	.97265	24.358	.24509
#2	.50081	11.668	.25138	.98379	.97426	24.356	.24469
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	13.750	.27500	1.1000	1.1000	27.500	.27500
Low	.45000	11.250	.22500	.90000	.90000	22.500	.22500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99095	.99009	.95143	12.181	23.639	.97214	.99597
SDev	.00442	.00422	.00325	.046	.058	.00341	.00355
%RSD	.44631	.42657	.34104	.37773	.24369	.35121	.35631
#1	.98782	.98710	.94913	12.148	23.598	.96972	.99346
#2	.99408	.99307	.95372	12.213	23.679	.97455	.99848
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	13.750	27.500	1.1000	1.1000
Low	.90000	.90000	.90000	11.250	22.500	.90000	.90000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.98378	.24633	.24523	.24560	.25092	.25473	.25346
SDev	.00244	.00017	.00330	.00226	.00458	.00442	.00143
%RSD	.24755	.06905	1.3444	.91843	1.8240	1.7365	.56270
#1	.98550	.24621	.24290	.24401	.24769	.25786	.25447
#2	.98206	.24645	.24757	.24720	.25416	.25160	.25246
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	1.1000			.27500			.27500
Low	.90000			.22500			.22500
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.25405	.25344	.25364	.50028	.98013	1.0134	
SDev	.00133	.00231	.00110	.00409	.00178	.0026	
%RSD	.52437	.91286	.43348	.81787	.18165	.25900	
#1	.25499	.25180	.25286	.50318	.97887	1.0115	
#2	.25311	.25507	.25442	.49739	.98139	1.0152	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.27500	.55000	1.1000	1.1000	
Low			.22500	.45000	.90000	.90000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14681	--	--	--	--	--	--
SDev	77.39298	--	--	--	--	--	--
%RSD	.5271543	--	--	--	--	--	--
#1	14736	--	--	--	--	--	--
#2	14627	--	--	--	--	--	--

Method: METTRA Sample Name: ICB1

Operator: RJG

Run Time: 10/27/00 15:44:48

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00116	-.00487	-.00114	.00035	.00055	.00771	.00004
SDev	.00026	.00254	.00065	.00014	.00024	.00046	.00002
%RSD	22.030	52.228	56.797	41.859	43.719	5.9425	55.042
#1	.00134	-.00307	-.00068	.00024	.00038	.00803	.00006
#2	.00098	-.00666	-.00160	.00045	.00072	.00738	.00003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00059	.00058	-.00027	.01530	.01140	.00041	.00318
SDev	.00001	.00003	.00006	.01799	.00186	.00018	.00030
%RSD	.98207	4.8193	20.845	117.56	16.279	42.674	9.2968
#1	.00058	.00056	-.00031	.02802	.01009	.00029	.00339
#2	.00059	.00060	-.00023	.00258	.01271	.00054	.00297
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.00215	.00027	.00090	-.00282	-.00109	-.00167
SDev	.00058	.00164	.00019	.00042	.00180	.00035	.00083
%RSD	1548.2	76.632	67.816	47.219	63.707	31.785	49.790
#1	-.00037	.00331	.00014	.00120	-.00410	-.00133	-.00225
#2	.00045	.00098	.00041	.00060	-.00155	-.00084	-.00108
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00329	-.00058	-.00148	-.00329	-.00180	.00062	
SDev	.00005	.00145	.00095	.00177	.00001	.00017	
%RSD	1.5594	249.68	64.190	53.772	.46682	26.719	
#1	-.00325	-.00161	-.00216	-.00204	-.00180	.00050	
#2	-.00333	.00045	-.00081	-.00454	-.00181	.00074	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14282	--	--	--	--	--	--
SDev	92.38309	--	--	--	--	--	--
%RSD	.6468622	--	--	--	--	--	--
#1	14216	--	--	--	--	--	--
#2	14347	--	--	--	--	--	--

Method: METTRA Sample Name: CRI-1 0057-079-2 Operator: RJG
 Run Time: 10/27/00 15:48:57
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02059	.34878	.01969	.40209	.01056	9.9964	.01015
SDev	.00073	.00317	.00065	.00071	.00003	.0165	.00028
%RSD	3.5566	.90917	3.2877	.17653	.24991	.16532	2.7097
#1	.02007	.34654	.02015	.40259	.01057	9.9847	.01035
#2	.02111	.35102	.01924	.40159	.01054	10.008	.00996
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.03000	.60000	.03000	.60000	.01500	15.000	.01500
Low	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10278	.02045	.04848	.18155	9.5568	.03034	.00020
SDev	.00076	.00046	.00045	.01211	.0150	.00019	.00107
%RSD	.74166	2.2307	.92666	6.6723	.15747	.62704	520.94
#1	.10224	.02013	.04816	.17298	9.5462	.03021	-.00055
#2	.10332	.02077	.04879	.19011	9.5675	.03047	.00096
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.15000	.03000	.07500	.30000	15.000	.04500	
Low	.05000	.01000	.02500	.10000	5.0000	.01500	
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08052	.00605	.00690	.00662	.11918	.12180	.12093
SDev	.00032	.00026	.00024	.00007	.00052	.00204	.00154
%RSD	.40120	4.3599	3.5266	1.1250	.43803	1.6787	1.2715
#1	.08074	.00587	.00707	.00667	.11882	.12035	.11984
#2	.08029	.00624	.00673	.00657	.11955	.12324	.12202
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.12000			.00900			.18000
Low	.04000			.00300			.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.01044	.01081	.01068	.02114	.09727	.04395	
SDev	.00335	.00110	.00038	.00243	.00019	.00008	
%RSD	32.120	10.192	3.5740	11.476	.19306	.18452	
#1	.01281	.01003	.01095	.01942	.09714	.04389	
#2	.00807	.01158	.01041	.02286	.09740	.04400	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.01500	.03000	.15000	.06000	
Low			.00500	.01000	.05000	.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14730	--	--	--	--	--	--
SDev	27.22361	--	--	--	--	--	--
%RSD	.1848187	--	--	--	--	--	--
#1	14749	--	--	--	--	--	--
#2	14711	--	--	--	--	--	--

Method: METTRA Sample Name: ICSA 0057-115-1 Operator: RJG
 Run Time: 10/27/00 15:53:06
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00109	505.43	.00025	.00167	-.00032	465.19	.00059
SDev	.00121	.36	.00234	.00008	.00017	.74	.00012
%RSD	110.48	.07160	954.17	4.9577	51.126	.15908	21.065
#1	.00024	505.18	.00190	.00161	-.00021	464.67	.00067
#2	.00195	505.69	-.00141	.00173	-.00044	465.72	.00050
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.00				500.00	
Range		20.000				20.000	
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00032	.00133	-.00009	196.37	509.77	.00794	-.00473
SDev	.00095	.00111	.00050	.31	.75	.00002	.00339
%RSD	298.58	83.719	538.15	.15812	.14683	.23147	71.725
#1	-.00035	.00054	-.00045	196.16	509.25	.00792	-.00233
#2	.00099	.00211	.00026	196.59	510.30	.00795	-.00713
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value				200.00	500.00		
Range				20.000	20.000		
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00031	-.02845	.01537	.00078	.00448	-.00064	.00107
SDev	.00173	.00188	.00068	.00017	.00379	.00305	.00330
%RSD	558.12	6.6205	4.4523	21.967	84.542	479.35	308.69
#1	-.00091	-.02978	.01585	.00066	.00180	-.00279	-.00126
#2	.00153	-.02712	.01489	.00090	.00716	.00152	.00340
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00738	.00206	-.00108	-.00058	.00767	.00402	
SDev	.00262	.00376	.00338	.00263	.00060	.00000	
%RSD	35.511	182.07	312.25	452.35	7.7598	.06810	
#1	-.00924	-.00059	-.00347	.00128	.00725	.00402	
#2	-.00553	.00472	.00131	-.00244	.00809	.00402	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	
Value							
Range							

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13848	--	--	--	--	--	--
SDev	68.16537	--	--	--	--	--	--
%RSD	.4922345	--	--	--	--	--	--
#1	13896	--	--	--	--	--	--
#2	13800	--	--	--	--	--	--

Method: METTRA Sample Name: ICSAB 0057-104-1 Operator: RJG
 Run Time: 10/27/00 15:57:16
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21699	512.57	.10640	.51439	.48768	470.45	.91577
SDev	.00025	2.87	.00305	.00371	.00177	1.83	.00189
%RSD	.11520	.56089	2.8696	.72166	.36185	.38951	.20596
#1	.21717	514.60	.10855	.51702	.48893	471.75	.91710
#2	.21681	510.54	.10424	.51177	.48643	469.16	.91444
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	500.00	.10000	.50000	.50000	500.00	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48159	.49439	.52837	198.84	514.08	.50115	-.00232
SDev	.00122	.00075	.00208	.41	1.00	.00139	.00192
%RSD	.25292	.15212	.39360	.20780	.19355	.27759	82.456
#1	.48245	.49492	.52984	199.13	514.78	.50213	-.00097
#2	.48073	.49386	.52690	198.55	513.38	.50017	-.00368
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.50000	.50000	.50000	200.00	500.00	.50000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.95482	.02233	.06269	.04925	.60438	.63000	.62147
SDev	.00728	.00259	.00058	.00125	.01419	.00439	.00765
%RSD	.76271	11.592	.92483	2.5356	2.3482	.69606	1.2311
#1	.95997	.02050	.06228	.04837	.59434	.62690	.61606
#2	.94967	.02416	.06310	.05013	.61441	.63310	.62688
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	1.0000			.05000			.60000
Range	20.000			20.000			20.000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.05585	.04435	.04818	.10141	.51008	1.0297	
SDev	.00891	.00567	.00082	.00575	.00382	.0024	
%RSD	15.950	12.787	1.6939	5.6678	.74898	.23276	
#1	.06215	.04034	.04760	.10548	.51279	1.0314	
#2	.04955	.04836	.04876	.09735	.50738	1.0280	
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	
Value			.05000	.10000	.50000	1.0000	
Range			20.000	20.000	20.000	20.000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13764	--	--	--	--	--	--
SDev	62.11905	--	--	--	--	--	--
%RSD	.4513294	--	--	--	--	--	--
#1	13808	--	--	--	--	--	--
#2	13720	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-1 0057-122-2 Operator: RJG
 Run Time: 10/27/00 16:01:26
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0477	24.866	.52125	2.0452	2.0458	51.094	.50222
SDev	.0028	.181	.00406	.0074	.0055	.029	.00058
%RSD	.27190	.72804	.77904	.36049	.27003	.05599	.11467
#1	1.0497	24.738	.52412	2.0504	2.0497	51.115	.50181
#2	1.0457	24.994	.51838	2.0399	2.0419	51.074	.50263
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0517	2.0448	2.0042	25.486	49.859	2.0310	2.0551
SDev	.0015	.0019	.0024	.076	.123	.0017	.0069
%RSD	.07533	.09353	.11730	.29779	.24686	.08244	.33710
#1	2.0528	2.0462	2.0059	25.433	49.772	2.0322	2.0502
#2	2.0506	2.0435	2.0026	25.540	49.946	2.0298	2.0600
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0299	.51532	.50991	.51171	.51629	.52819	.52423
SDev	.0164	.00134	.00297	.00243	.00547	.00040	.00208
%RSD	.80867	.25945	.58319	.47462	1.0589	.07475	.39753
#1	2.0415	.51438	.50780	.50999	.51243	.52791	.52275
#2	2.0183	.51627	.51201	.51343	.52016	.52847	.52570
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.52686	.51780	.52082	1.0465	2.0338	2.0655	
SDev	.00033	.00903	.00613	.0002	.0071	.0028	
%RSD	.06188	1.7449	1.1779	.02020	.34732	.13586	
#1	.52663	.51141	.51648	1.0463	2.0388	2.0674	
#2	.52710	.52419	.52516	1.0466	2.0288	2.0635	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14138	--	--	--	--	--	--
SDev	8.450064	--	--	--	--	--	--
%RSD	.0597667	--	--	--	--	--	--
#1	14144	--	--	--	--	--	--
#2	14132	--	--	--	--	--	--

Method: METTRA Sample Name: CCB1 Operator: RJG
 Run Time: 10/27/00 16:05:35
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00095	-.02541	-.00106	.00037	.00138	.05194	.00014
SDev	.00061	.01781	.00060	.00015	.00018	.02800	.00004
%RSD	64.152	70.096	56.705	39.574	13.224	53.902	30.392
#1	.00052	-.03800	-.00148	.00027	.00151	.03214	.00011
#2	.00137	-.01281	-.00063	.00048	.00125	.07173	.00017
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00098	.00066	.00102	.02281	.04926	.00037	.00269
SDev	.00000	.00076	.00016	.01017	.02571	.00011	.00072
%RSD	.05534	114.72	15.955	44.592	52.180	28.697	26.847
#1	.00098	.00012	.00113	.01562	.03109	.00030	.00320
#2	.00098	.00119	.00090	.03000	.06744	.00045	.00218
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00025	.00047	-.00106	-.00055	-.00037	.00209	.00127
SDev	.00138	.00261	.00311	.00121	.00307	.00213	.00040
%RSD	548.62	559.21	292.64	217.97	820.66	102.25	31.531
#1	-.00123	-.00138	.00114	.00030	.00180	.00058	.00098
#2	.00073	.00231	-.00326	-.00141	-.00255	.00359	.00155
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00149	-.00078	-.00101	.00006	-.00132	.00068	
SDev	.00336	.00190	.00015	.00040	.00071	.00023	
%RSD	226.00	243.71	14.304	617.06	53.422	33.533	
#1	-.00386	.00056	-.00091	.00034	-.00182	.00052	
#2	.00089	-.00212	-.00112	-.00022	-.00082	.00084	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15147	--	--	--	--	--	--
SDev	16.68745	--	--	--	--	--	--
%RSD	.1101681	--	--	--	--	--	--
#1	15135	--	--	--	--	--	--
#2	15159	--	--	--	--	--	--

Method: METTRA Sample Name: DND52B Operator: RJG
 Run Time: 10/27/00 16:09:44
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00065	.00434	-.00099	.00009	.00013	.05364	.00003
SDev	.00043	.00848	.00101	.00001	.00000	.00390	.00002
%RSD	65.567	195.44	102.46	11.175	2.9474	7.2730	72.128
#1	.00095	.01034	-.00170	.00008	.00013	.05089	.00002
#2	.00035	-.00166	-.00027	.00010	.00014	.05640	.00005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00086	.00001	.00208	.01517	.02872	.00023	-.00084
SDev	.00007	.00021	.00017	.00780	.00271	.00001	.00103
%RSD	7.6950	1631.8	7.9628	51.410	9.4539	5.8091	122.33
#1	.00090	-.00014	.00220	.00965	.02680	.00022	-.00011
#2	.00081	.00016	.00197	.02068	.03064	.00024	-.00157
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00005	-.00418	.00155	-.00036	-.00124	.00028	-.00023
SDev	.00012	.00254	.00014	.00094	.00190	.00072	.00015
%RSD	233.03	60.843	9.2056	264.23	152.52	255.87	67.849
#1	.00003	-.00238	.00165	.00031	.00010	-.00023	-.00012
#2	-.00013	-.00598	.00145	-.00102	-.00258	.00078	-.00034
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00555	-.00511	-.00156	.00132	-.00181	.00490	
SDev	.00138	.00463	.00263	.00334	.00049	.00009	
%RSD	24.906	90.595	168.43	252.18	27.083	1.8623	
#1	.00457	-.00184	.00030	.00369	-.00216	.00496	
#2	.00653	-.00838	-.00342	-.00104	-.00146	.00483	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14464	--	--	--	--	--	--
SDev	168.1851	--	--	--	--	--	--
%RSD	1.162754	--	--	--	--	--	--
#1	14345	--	--	--	--	--	--
#2	14583	--	--	--	--	--	--

Method: METTRA Sample Name: DND52C Operator: RJG
 Run Time: 10/27/00 16:13:53
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05663	2.2837	2.2698	2.1540	.05462	54.511	.05262
SDev	.00028	.0049	.0044	.0073	.00003	.017	.00032
%RSD	.50297	.21380	.19512	.33850	.05586	.03064	.61148
#1	.05643	2.2802	2.2729	2.1488	.05460	54.499	.05239
#2	.05683	2.2871	2.2666	2.1592	.05464	54.523	.05285
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.54536	.21828	.26801	.96804	53.328	.53676	1.0814
SDev	.00127	.00020	.00046	.00750	.095	.00071	.0049
%RSD	.23198	.09350	.17155	.77451	.17786	.13187	.45186
#1	.54446	.21814	.26833	.96274	53.261	.53626	1.0779
#2	.54625	.21843	.26768	.97334	53.396	.53726	1.0848
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.54028	.54956	.53866	.54229	.54177	.56786	.55918
SDev	.00156	.00303	.00331	.00321	.00282	.00375	.00344
%RSD	.28917	.55058	.61430	.59280	.52099	.66043	.61545
#1	.53918	.55170	.54100	.54457	.54377	.57052	.56161
#2	.54139	.54742	.53632	.54002	.53977	.56521	.55674
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.3897	2.4039	2.3992	2.3077	.53816	.59295	
SDev	.0180	.0056	.0097	.0009	.00119	.00010	
%RSD	.75200	.23287	.40505	.04094	.22040	.01725	
#1	2.4024	2.4079	H2.4061	2.3070	.53900	.59287	
#2	2.3770	2.4000	2.3923	2.3083	.53732	.59302	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13911	--	--	--	--	--	--
SDev	50.38136	--	--	--	--	--	--
%RSD	.3621594	--	--	--	--	--	--
#1	13876	--	--	--	--	--	--
#2	13947	--	--	--	--	--	--

Method: METTRA Sample Name: DM3ET Operator: RJG
 Run Time: 10/27/00 16:18:02
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00119	-.01236	.00391	.05305	.00025	8.5872	.00014
SDev	.00030	.04175	.00006	.00401	.00091	.6028	.00016
%RSD	25.362	337.84	1.5216	7.5638	359.80	7.0196	116.62
#1	.00098	-.04188	.00387	.05022	.00090	8.1609	.00002
#2	.00140	.01716	.00395	.05589	-.00039	9.0134	.00026
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07134	.00153	.00122	48.460	4.0805	1.2056	.00007
SDev	.00456	.00035	.00044	3.561	.2975	.0865	.00028
%RSD	6.3925	22.849	35.893	7.3481	7.2908	7.1754	370.54
#1	.06812	.00128	.00091	45.942	3.8701	1.1444	-.00012
#2	.07457	.00178	.00153	50.978	4.2908	1.2667	.00027
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00154	-.00301	.00038	-.00075	-.00147	-.00117	-.00127
SDev	.00131	.00007	.00044	.00031	.00158	.00041	.00025
%RSD	85.243	2.1906	115.03	41.770	107.77	35.163	19.851
#1	.00061	-.00306	.00007	-.00097	-.00035	-.00146	-.00109
#2	.00246	-.00297	.00069	-.00053	-.00258	-.00088	-.00145
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00367	-.00041	.00095	.00270	-.00227	.00507	
SDev	.00115	.00296	.00159	.00232	.00029	.00025	
%RSD	31.401	720.35	167.45	86.068	12.761	5.0070	
#1	.00449	-.00250	-.00017	.00434	-.00248	.00489	
#2	.00286	.00168	.00207	.00105	-.00207	.00525	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14821	--	--	--	--	--	--
SDev	823.5315	--	--	--	--	--	--
%RSD	5.556340	--	--	--	--	--	--
#1	15404	--	--	--	--	--	--
#2	14239	--	--	--	--	--	--

Method: METTRA Sample Name: DM3EX Operator: RJG
 Run Time: 10/27/00 16:22:10
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	-.01423	.00000	.05092	.00104	5.9944	-.00006
SDev	.00082	.01390	.00068	.00107	.00003	.1195	.00015
%RSD	688.72	97.706	33711.	2.0942	2.6602	1.9929	249.35

#1	-.00046	-.00440	.00048	.05167	.00102	6.0789	-.00017
#2	.00070	-.02406	-.00048	.05016	.00106	5.9099	.00005

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01741	.00202	.00290	.23473	3.5617	.27254	-.00070
SDev	.00010	.00004	.00015	.00323	.0558	.00473	.00019
%RSD	.55490	2.0940	5.1882	1.3755	1.5657	1.7371	27.812

#1	.01735	.00199	.00301	.23245	3.6011	.27589	-.00083
#2	.01748	.00205	.00280	.23701	3.5222	.26920	-.00056

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02199	-.00286	.00210	.00045	-.00125	-.00087	-.00099
SDev	.00064	.00232	.00108	.00005	.00103	.00004	.00032
%RSD	2.9093	81.107	51.560	10.899	82.020	4.5141	31.809

#1	.02154	-.00450	.00287	.00042	-.00053	-.00089	-.00077
#2	.02244	-.00122	.00134	.00048	-.00198	-.00084	-.00122

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00428	-.00527	-.00209	.00635	-.00142	.03866
SDev	.00365	.00145	.00024	.00126	.00046	.00049
%RSD	85.253	27.585	11.666	19.885	32.176	1.2630

#1	.00170	-.00424	-.00227	.00546	-.00175	.03901
#2	.00686	-.00630	-.00192	.00725	-.00110	.03832

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15222	--	--	--	--	--	--
SDev	239.9219	--	--	--	--	--	--
%RSD	1.576157	--	--	--	--	--	--
#1	15052	--	--	--	--	--	--
#2	15392	--	--	--	--	--	--

Method: METTRA Sample Name: DM3E1 Operator: RJG
 Run Time: 10/27/00 16:26:19
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00099	-.04498	-.00083	.14796	.00114	12.445	.00030
SDev	.00010	.00224	.00050	.00092	.00006	.066	.00008
%RSD	10.408	4.9775	60.817	.62478	5.0066	.52849	26.136
#1	.00106	-.04656	-.00118	.14731	.00118	12.399	.00024
#2	.00092	-.04340	-.00047	.14861	.00110	12.492	.00035
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11838	.00369	.00350	1.7864	8.0682	2.0343	-.00165
SDev	.00107	.00005	.00015	.0191	.0497	.0130	.00067
%RSD	.90556	1.2449	4.2884	1.0717	.61599	.63937	40.971
#1	.11763	.00372	.00360	1.7729	8.0331	2.0251	-.00117
#2	.11914	.00365	.00339	1.7999	8.1033	2.0435	-.00212
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01608	-.00444	.00009	-.00142	-.00147	.00048	-.00017
SDev	.00060	.00141	.00219	.00099	.00192	.00035	.00087
%RSD	3.7229	31.657	2564.7	69.660	130.98	73.264	523.93
#1	.01565	-.00345	-.00146	-.00212	-.00282	.00023	-.00079
#2	.01650	-.00544	.00163	-.00072	-.00011	.00073	.00045
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00824	-.00281	.00087	.00141	-.00155	.15059	
SDev	.00171	.00114	.00019	.00158	.00001	.00117	
%RSD	20.697	40.485	22.158	111.62	.42130	.77820	
#1	.00704	-.00201	.00100	.00030	-.00156	.14976	
#2	.00945	-.00362	.00073	.00253	-.00155	.15142	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15685	--	--	--	--	--	--
SDev	134.7743	--	--	--	--	--	--
%RSD	.8592613	--	--	--	--	--	--
#1	15780	--	--	--	--	--	--
#2	15590	--	--	--	--	--	--

Method: METTRA Sample Name: DM3E2 Operator: RJG
 Run Time: 10/27/00 16:30:28
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00065	.12563	-.00003	.08278	.00081	5.5716	.00018
SDev	.00048	.01014	.00225	.00073	.00016	.0623	.00022
%RSD	73.281	8.0702	6626.4	.88261	19.929	1.1187	125.19
#1	.00099	.13280	-.00163	.08330	.00070	5.6157	.00034
#2	.00031	.11846	.00156	.08227	.00092	5.5275	.00002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04066	.00169	.00421	.05319	3.8850	.32893	-.00090
SDev	.00022	.00044	.00003	.00115	.0381	.00314	.00052
%RSD	.53840	26.191	.61519	2.1563	.98174	.95385	57.031
#1	.04082	.00200	.00423	.05401	3.9120	.33115	-.00054
#2	.04051	.00138	.00419	.05238	3.8580	.32672	-.00127
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01612	-.00282	.00092	-.00033	-.00194	-.00179	-.00184
SDev	.00048	.00192	.00065	.00020	.00045	.00045	.00045
%RSD	2.9757	67.954	71.141	62.014	23.493	24.920	24.419
#1	.01646	-.00147	.00046	-.00018	-.00161	-.00147	-.00152
#2	.01579	-.00418	.00138	-.00047	-.00226	-.00210	-.00216
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00953	-.00540	-.00043	.00155	-.00146	.06757	
SDev	.00050	.00020	.00004	.00267	.00001	.00070	
%RSD	5.2798	3.6710	8.1995	172.57	.54026	1.0340	
#1	.00989	-.00554	-.00041	.00344	-.00146	.06807	
#2	.00917	-.00526	-.00046	-.00034	-.00147	.06708	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14808	--	--	--	--	--	--
SDev	163.8016	--	--	--	--	--	--
%RSD	1.106141	--	--	--	--	--	--
#1	14693	--	--	--	--	--	--
#2	14924	--	--	--	--	--	--

Method: METTRA Sample Name: DM3E4 Operator: RJG
 Run Time: 10/27/00 16:34:37
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00065	-.06737	.00023	.12949	.00122	16.550	-.00000
SDev	.00018	.00359	.00116	.00073	.00001	.064	.00010
%RSD	27.819	5.3301	499.80	.56567	.58599	.38675	5991.2
#1	.00052	-.06483	-.00059	.13001	.00121	16.595	-.00008
#2	.00078	-.06991	.00105	.12898	.00122	16.505	.00007
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01843	.00245	.00408	.31075	7.8947	.27856	-.00144
SDev	.00027	.00007	.00013	.00142	.0398	.00079	.00023
%RSD	1.4858	2.9833	3.1772	.45711	.50437	.28407	15.643
#1	.01824	.00250	.00399	.30975	7.9228	.27912	-.00160
#2	.01863	.00240	.00417	.31176	7.8665	.27800	-.00128
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00930	-.00071	.00044	.00006	-.00082	.00017	-.00016
SDev	.00090	.00098	.00022	.00047	.00188	.00002	.00061
%RSD	9.7262	138.22	49.562	795.89	230.40	11.426	385.95
#1	.00994	-.00002	.00060	.00039	-.00215	.00018	-.00059
#2	.00866	-.00140	.00029	-.00027	.00051	.00016	.00027
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00622	-.00930	-.00413	.00428	-.00205	.02157	
SDev	.00173	.00165	.00168	.00321	.00000	.00061	
%RSD	27.853	17.762	40.607	75.121	.02360	2.8319	
#1	.00744	-.00813	-.00295	.00200	-.00206	.02114	
#2	.00499	-.01047	L-.00532	.00655	-.00205	.02200	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15786	--	--	--	--	--	--
SDev	26.02139	--	--	--	--	--	--
%RSD	.1648421	--	--	--	--	--	--
#1	15767	--	--	--	--	--	--
#2	15804	--	--	--	--	--	--

Method: METTRA Sample Name: DM3E6 Operator: RJG
 Run Time: 10/27/00 16:38:46
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	-.01119	-.00074	.09810	.00067	35.559	.00016
SDev	.00038	.00203	.00065	.00065	.00006	.319	.00002
%RSD	148.46	18.172	88.880	.66539	9.5339	.89683	12.214
#1	-.00001	-.00975	-.00120	.09857	.00071	35.785	.00018
#2	.00053	-.01263	-.00027	.09764	.00062	35.334	.00015
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01496	.00071	.00318	.04693	3.9147	.17113	-.00152
SDev	.00007	.00053	.00051	.00348	.0266	.00097	.00041
%RSD	.49928	74.283	15.922	7.4235	.67908	.56539	26.985
#1	.01501	.00034	.00282	.04447	3.9335	.17181	-.00181
#2	.01491	.00108	.00353	.04940	3.8959	.17044	-.00123
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02290	-.00441	.00081	-.00093	-.00120	.00133	.00049
SDev	.00085	.00246	.00197	.00050	.00016	.00240	.00155
%RSD	3.7336	55.712	244.59	53.130	13.597	180.63	317.64
#1	.02230	-.00615	.00220	-.00058	-.00108	-.00037	-.00061
#2	.02351	-.00267	-.00059	-.00128	-.00131	.00303	.00158
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00538	-.00627	-.00239	-.00041	-.00112	.04907	
SDev	.00077	.00208	.00113	.00146	.00049	.00015	
%RSD	14.378	33.155	47.256	353.15	43.585	.30276	
#1	.00593	-.00774	-.00319	-.00145	-.00146	.04896	
#2	.00484	-.00480	-.00159	.00062	-.00077	.04917	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14659	--	--	--	--	--	--
SDev	2.686868	--	--	--	--	--	--
%RSD	.0183286	--	--	--	--	--	--
#1	14658	--	--	--	--	--	--
#2	14661	--	--	--	--	--	--

Method: METTRA Sample Name: DM3E8 Operator: RJG
 Run Time: 10/27/00 16:42:55
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00031	-.05684	.00181	.09335	.00075	15.286	-.00008
SDev	.00063	.02339	.00009	.00307	.00055	.586	.00019
%RSD	202.46	41.155	5.1008	3.2923	73.601	3.8312	228.34
#1	.00076	-.04030	.00174	.09552	.00036	15.700	.00005
#2	-.00013	-.07338	.00187	.09117	.00114	14.872	-.00022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02168	.00219	.00121	.06225	7.4540	.44022	-.00225
SDev	.00071	.00060	.00049	.01908	.2741	.01612	.00059
%RSD	3.2880	27.589	40.801	30.655	3.6777	3.6612	26.191
#1	.02218	.00262	.00156	.07575	7.6478	.45162	-.00183
#2	.02117	.00177	.00086	.04876	7.2601	.42883	-.00267
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00687	-.00325	-.00198	-.00241	.00098	-.00121	-.00048
SDev	.00229	.00005	.00028	.00020	.00135	.00126	.00129
%RSD	33.349	1.4770	14.263	8.5067	137.95	104.08	267.18
#1	.00849	-.00322	-.00178	-.00226	.00193	-.00032	.00043
#2	.00525	-.00329	-.00218	-.00255	.00002	-.00211	-.00140
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00594	-.00627	-.00221	.00480	-.00214	.02185	
SDev	.00230	.00256	.00094	.00481	.00001	.00097	
%RSD	38.766	40.776	42.579	100.20	.30444	4.4637	
#1	.00431	-.00446	-.00154	.00140	-.00214	.02254	
#2	.00757	-.00808	-.00287	.00819	-.00214	.02116	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15244	--	--	--	--	--	--
SDev	485.4640	--	--	--	--	--	--
%RSD	3.184723	--	--	--	--	--	--
#1	14900	--	--	--	--	--	--
#2	15587	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FD Operator: RJG
 Run Time: 10/27/00 16:47:05
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00058	-.02518	-.00097	.07650	.00034	19.315	.00019
SDev	.00052	.00216	.00116	.00041	.00009	.075	.00008
%RSD	90.457	8.5618	119.89	.53363	26.608	.38755	42.687
#1	.00021	-.02365	-.00179	.07679	.00040	19.368	.00024
#2	.00095	-.02670	-.00015	.07621	.00027	19.262	.00013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03203	.00084	.00326	.02686	3.5992	.54482	-.00135
SDev	.00036	.00011	.00063	.00972	.0141	.00146	.00033
%RSD	1.1351	12.909	19.390	36.201	.39079	.26744	24.125
#1	.03177	.00077	.00282	.01999	3.6092	.54585	-.00159
#2	.03228	.00092	.00371	.03374	3.5893	.54379	-.00112
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01648	-.00301	.00140	-.00007	.00049	.00016	.00027
SDev	.00029	.00016	.00018	.00007	.00163	.00156	.00159
%RSD	1.7468	5.1856	13.264	99.712	334.19	963.92	585.79
#1	.01627	-.00312	.00153	-.00002	.00164	.00127	.00139
#2	.01668	-.00290	.00126	-.00012	-.00067	-.00094	-.00085
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00502	-.00558	-.00205	.00371	-.00044	.05815	
SDev	.00413	.00177	.00256	.00318	.00000	.00012	
%RSD	82.215	31.782	124.88	85.810	.79841	.19975	
#1	.00210	-.00683	-.00386	.00146	-.00045	.05824	
#2	.00795	-.00433	-.00024	.00596	-.00044	.05807	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14731	--	--	--	--	--	--
SDev	1.980452	--	--	--	--	--	--
%RSD	.0134444	--	--	--	--	--	--
#1	14732	--	--	--	--	--	--
#2	14729	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-2 Operator: RJG
 Run Time: 10/27/00 16:51:15
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0056	23.796	.49600	1.9589	1.9616	48.822	.47812
SDev	.0051	.057	.00653	.0084	.0112	.294	.00371
%RSD	.50345	.24006	1.3174	.42991	.57079	.60131	.77597
#1	1.0092	23.837	.50062	1.9648	1.9695	49.030	.48075
#2	1.0020	23.756	.49137	1.9529	1.9536	48.615	.47550
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9667	1.9626	1.9223	24.295	47.807	1.9492	1.9715
SDev	.0107	.0100	.0053	.128	.188	.0081	.0012
%RSD	.54276	.50795	.27641	.52875	.39368	.41387	.06298
#1	1.9743	1.9696	1.9260	24.386	47.940	1.9549	1.9706
#2	1.9592	1.9555	1.9185	24.204	47.674	1.9435	1.9723
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9347	.49753	.48522	.48932	.49498	.50259	.50006
SDev	.0181	.00476	.00445	.00455	.00263	.00363	.00330
%RSD	.93379	.95761	.91631	.93029	.53137	.72295	.65980
#1	1.9475	.50090	.48836	.49254	.49684	.50516	.50239
#2	1.9219	.49416	.48207	.48610	.49312	.50002	.49773
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.50323	.50264	.50284	.99698	1.9465	1.9637	
SDev	.00420	.00022	.00125	.00728	.0097	.0147	
%RSD	.83525	.04347	.24938	.73032	.49963	.74924	
#1	.50620	.50249	.50372	1.0021	1.9534	1.9741	
#2	.50026	.50279	.50195	.99183	1.9397	1.9533	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14738	--	--	--	--	--	--
SDev	71.70091	--	--	--	--	--	--
%RSD	.4865069	--	--	--	--	--	--
#1	14687	--	--	--	--	--	--
#2	14789	--	--	--	--	--	--

Method: METTRA Sample Name: CCB2 Operator: RJG
 Run Time: 10/27/00 16:55:24
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00103	-.04283	-.00074	.00032	.00062	.01234	.00023
SDev	.00013	.00726	.00094	.00028	.00012	.00892	.00009
%RSD	12.835	16.956	125.90	85.792	20.077	72.331	38.473
#1	.00093	-.03769	-.00141	.00013	.00053	.00603	.00030
#2	.00112	-.04797	-.00008	.00052	.00070	.01865	.00017
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00092	.00031	.00155	.01267	.01083	.00043	.00277
SDev	.00028	.00032	.00008	.00140	.00743	.00024	.00093
%RSD	31.090	104.05	5.3662	11.061	68.633	55.226	33.763
#1	.00112	.00008	.00149	.01168	.00557	.00026	.00343
#2	.00072	.00054	.00161	.01367	.01608	.00060	.00211
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	.00147	.00011	.00056	-.00069	.00034	-.00000
SDev	.00018	.00337	.00086	.00055	.00147	.00002	.00048
%RSD	45.169	229.17	778.37	97.348	212.16	5.2040	165910.
#1	.00027	-.00091	.00072	.00018	.00035	.00033	.00034
#2	.00052	.00385	-.00050	.00095	-.00173	.00036	-.00034
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00174	-.00028	-.00076	-.00056	.00057	.00091	
SDev	.00615	.00027	.00187	.00136	.00338	.00040	
%RSD	354.19	95.598	244.59	244.11	587.56	44.478	
#1	-.00609	-.00009	-.00209	.00040	-.00181	.00062	
#2	.00261	-.00047	.00056	-.00152	.00296	.00119	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14684	--	--	--	--	--	--
SDev	78.17052	--	--	--	--	--	--
%RSD	.5323543	--	--	--	--	--	--
#1	14629	--	--	--	--	--	--
#2	14739	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FF

Operator: RJG

Run Time: 10/27/00 16:59:34

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00122	-.01624	.00108	.11032	.00024	23.510	.00001
SDev	.00055	.02103	.00049	.00115	.00020	.353	.00004
%RSD	45.391	129.48	45.929	1.0387	81.790	1.4998	465.33
#1	.00161	-.00137	.00073	.11113	.00010	23.759	.00004
#2	.00083	-.03111	.00143	.10951	.00038	23.261	-.00002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00596	.00377	.00333	.04184	2.3659	.07328	-.00019
SDev	.00002	.00069	.00033	.00685	.0296	.00108	.00039
%RSD	.31566	18.398	9.8763	16.369	1.2521	1.4670	206.02
#1	.00597	.00426	.00356	.04669	2.3868	.07404	.00009
#2	.00595	.00328	.00310	.03700	2.3449	.07252	-.00047
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01300	-.00075	.00060	.00015	-.00156	-.00004	-.00055
SDev	.00115	.00108	.00093	.00026	.00301	.00168	.00011
%RSD	8.8708	144.70	154.64	171.03	192.94	4296.1	21.009
#1	.01382	.00002	-.00006	-.00003	-.00369	.00115	-.00047
#2	.01219	-.00152	.00126	.00033	.00057	-.00122	-.00063
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00543	-.00467	-.00131	.00351	-.00077	.02204	
SDev	.00218	.00010	.00079	.00039	.00051	.00031	
%RSD	40.233	2.0466	60.370	11.145	66.455	1.3942	
#1	.00388	-.00474	-.00187	.00323	-.00041	.02226	
#2	.00697	-.00460	-.00075	.00379	-.00114	.02183	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14705	--	--	--	--	--	--
SDev	298.0455	--	--	--	--	--	--
%RSD	2.026790	--	--	--	--	--	--
#1	14495	--	--	--	--	--	--
#2	14916	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FG Operator: RJG
 Run Time: 10/27/00 17:03:43
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00026	-.03427	-.00014	.08844	.00017	11.646	-.00005
SDev	.00016	.00650	.00003	.00064	.00001	.113	.00015
%RSD	62.015	18.960	18.746	.72066	6.5571	.97010	308.80

#1	-.00037	-.02968	-.00012	.08889	.00016	11.726	.00006
#2	-.00014	-.03887	-.00016	.08799	.00018	11.566	-.00016

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00803	.00077	.00276	.02392	7.7575	.18586	-.00148
SDev	.00010	.00010	.00003	.00476	.0605	.00155	.00034
%RSD	1.2524	13.090	1.2163	19.897	.77937	.83253	22.667

#1	.00796	.00084	.00274	.02055	7.8002	.18696	-.00125
#2	.00810	.00070	.00279	.02728	7.7147	.18477	-.00172

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00365	-.00475	.00254	.00011	-.00097	-.00397	-.00297
SDev	.00032	.00036	.00054	.00048	.00177	.00075	.00009
%RSD	8.6746	7.6607	21.312	420.66	181.46	18.967	2.8941

#1	.00387	-.00449	.00293	.00046	.00028	-.00451	-.00291
#2	.00343	-.00501	.00216	-.00023	-.00222	-.00344	-.00303

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00318	-.00305	-.00098	.00069	-.00215	.01531
SDev	.00140	.00296	.00151	.00198	.00000	.00005
%RSD	44.051	96.936	154.15	287.00	.07544	.34709

#1	.00219	-.00096	.00009	.00209	-.00215	.01535
#2	.00417	-.00514	-.00204	-.00071	-.00215	.01527

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14847	--	--	--	--	--	--
SDev	95.17699	--	--	--	--	--	--
%RSD	.6410606	--	--	--	--	--	--
#1	14780	--	--	--	--	--	--
#2	14914	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FGP5 Operator: RJG
 Run Time: 10/27/00 17:07:52
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00070	-.04274	-.00078	.01735	-.00011	2.2998	.00012
SDev	.00031	.01018	.00020	.00014	.00007	.0183	.00001
%RSD	44.633	23.823	24.962	.83064	64.540	.79607	9.3504
#1	.00048	-.03554	-.00092	.01746	-.00006	2.3128	.00012
#2	.00092	-.04994	-.00064	.01725	-.00016	2.2869	.00013
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00156	-.00003	.00182	.02154	1.5094	.03702	-.00073
SDev	.00033	.00020	.00031	.00999	.0100	.00029	.00032
%RSD	21.122	736.04	17.288	46.364	.66454	.77568	43.495
#1	.00132	-.00017	.00159	.02861	1.5165	.03722	-.00096
#2	.00179	.00011	.00204	.01448	1.5024	.03682	-.00051
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00261	-.00026	.00049	.00024	-.00035	.00154	.00091
SDev	.00021	.00272	.00059	.00129	.00131	.00081	.00011
%RSD	8.1396	1038.2	120.31	545.68	377.83	52.604	11.473
#1	.00276	.00166	.00090	.00115	.00058	.00097	.00084
#2	.00246	-.00218	.00007	-.00068	-.00127	.00211	.00099
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00127	-.00157	-.00147	-.00274	-.00163	.00363	
SDev	.00032	.00257	.00182	.00199	.00025	.00015	
%RSD	25.223	163.69	123.99	72.400	15.392	4.2080	
#1	-.00149	-.00339	-.00276	-.00134	-.00145	.00352	
#2	-.00104	.00025	-.00018	-.00415	-.00181	.00373	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14491	--	--	--	--	--	--
SDev	67.21036	--	--	--	--	--	--
%RSD	.4637956	--	--	--	--	--	--
#1	14444	--	--	--	--	--	--
#2	14539	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FGX Operator: RJG
 Run Time: 10/27/00 17:12:00
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00074	-.05413	-.00056	.08463	.00035	11.185	.00004
SDev	.00047	.00392	.00024	.00035	.00001	.006	.00016
%RSD	63.493	7.2339	43.283	.40972	4.0131	.04934	461.45
#1	.00107	-.05136	-.00039	.08439	.00034	11.189	.00015
#2	.00041	-.05690	-.00073	.08488	.00036	11.181	-.00008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00800	.00116	.00231	.02937	7.4631	.17902	-.00169
SDev	.00032	.00049	.00045	.00200	.0102	.00016	.00023
%RSD	3.9475	42.050	19.417	6.8138	.13702	.09064	13.470
#1	.00822	.00150	.00263	.02796	7.4559	.17890	-.00186
#2	.00777	.00081	.00199	.03079	7.4704	.17913	-.00153
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00498	-.00413	.00144	-.00042	-.00071	-.00154	-.00126
SDev	.00179	.00367	.00229	.00031	.00065	.00293	.00217
%RSD	35.967	88.806	159.39	73.935	91.770	190.55	172.03
#1	.00625	-.00154	-.00018	-.00063	-.00117	-.00361	-.00280
#2	.00371	-.00673	.00306	-.00020	-.00025	.00053	.00027
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00487	-.00596	-.00235	-.00007	-.00198	.01472	
SDev	.00007	.00030	.00022	.00169	.00023	.00003	
%RSD	1.3769	4.9897	9.3785	2384.4	11.835	.20626	
#1	.00482	-.00617	-.00251	.00112	-.00182	.01474	
#2	.00492	-.00575	-.00220	-.00127	-.00215	.01470	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15160	--	--	--	--	--	--
SDev	84.53448	--	--	--	--	--	--
%RSD	.5576107	--	--	--	--	--	--
#1	15100	--	--	--	--	--	--
#2	15220	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FGS Operator: RJG
 Run Time: 10/27/00 17:16:09
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04683	2.1455	.04356	2.1357	.05070	63.068	.05047
SDev	.00385	.0585	.00185	.0429	.00061	1.224	.00073
%RSD	8.2295	2.7254	4.2434	2.0101	1.1988	1.9414	1.4555

#1	.04411	2.1041	.04487	2.1054	.05027	62.202	.04995
#2	.04956	2.1868	.04225	2.1661	.05113	63.934	.05099

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52591	.20960	.25376	.96378	59.123	.69344	-.00147
SDev	.01113	.00479	.00574	.02260	1.267	.01549	.00029
%RSD	2.1167	2.2852	2.2638	2.3449	2.1433	2.2334	19.767

#1	.51804	.20621	.24969	.94780	58.226	.68249	-.00127
#2	.53378	.21298	.25782	.97976	60.019	.70439	-.00168

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51548	.02034	.02234	.02167	.10329	.10822	.10658
SDev	.00928	.00011	.00116	.00073	.00270	.00354	.00326
%RSD	1.7998	.55738	5.1833	3.3891	2.6128	3.2699	3.0579

#1	.50892	.02042	.02152	.02115	.10138	.10572	.10427
#2	.52204	.02026	.02316	.02219	.10519	.11072	.10888

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01585	.00629	.00947	.05659	.51296	.55512
SDev	.00292	.00211	.00238	.00042	.00828	.00898
%RSD	18.437	33.488	25.104	.74025	1.6136	1.6171

#1	.01378	.00480	.00779	.05688	.50710	.54878
#2	.01792	.00778	.01116	.05629	.51881	.56147

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14736	--	--	--	--	--	--
SDev	264.3516	--	--	--	--	--	--
%RSD	1.793883	--	--	--	--	--	--
#1	14923	--	--	--	--	--	--
#2	14549	--	--	--	--	--	--

Method: METTRA Sample Name: CRI-2 Operator: RJG
 Run Time: 10/27/00 17:20:18
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02136	.36920	.01909	.41791	.00986	10.316	.01039
SDev	.00001	.00885	.00080	.00116	.00009	.008	.00006
%RSD	.03726	2.3965	4.1920	.27849	.91460	.07645	.55647
#1	.02137	.37546	.01965	.41709	.00992	10.311	.01043
#2	.02136	.36294	.01852	.41874	.00979	10.322	.01035
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.03000	.60000	.03000	.60000	.01500	15.000	.01500
Low	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10714	.02096	.05091	.16984	9.9565	.03135	-.00181
SDev	.00051	.00019	.00054	.00007	.0366	.00018	.00026
%RSD	.47413	.90661	1.0632	.04347	.36742	.57275	14.238
#1	.10750	.02109	.05053	.16989	9.9307	.03122	-.00162
#2	.10678	.02082	.05130	.16978	9.9824	.03148	-.00199
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.15000	.03000	.07500	.30000	15.000	.04500	
Low	.05000	.01000	.02500	.10000	5.0000	.01500	
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08264	.00736	.00658	.00684	.12500	.12459	.12472
SDev	.00047	.00056	.00170	.00094	.00037	.00230	.00141
%RSD	.57256	7.6792	25.808	13.809	.29306	1.8418	1.1294
#1	.08297	.00776	.00538	.00617	.12474	.12621	.12572
#2	.08231	.00696	.00778	.00751	.12526	.12296	.12373
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.12000			.00900			.18000
Low	.04000			.00300			.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00967	.00696	.00786	.01721	.10197	.04263	
SDev	.00231	.00032	.00098	.00176	.00060	.00020	
%RSD	23.846	4.6617	12.522	10.212	.58638	.47966	
#1	.01130	.00719	.00856	.01597	.10240	.04278	
#2	.00804	.00673	.00717	.01846	.10155	.04249	
Errors	NOCHECK	NOCHECK.	LC Pass	LC Pass	LC Pass	LC Pass	
High			.01500	.03000	.15000	.06000	
Low			.00500	.01000	.05000	.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14112	--	--	--	--	--	--
SDev	12.72792	--	--	--	--	--	--
%RSD	.0901925	--	--	--	--	--	--
#1	14103	--	--	--	--	--	--
#2	14121	--	--	--	--	--	--

Method: METTRA Sample Name: ICSA 0057-115-1 Operator: RJG
 Run Time: 10/27/00 17:24:28
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00083	527.06	.00112	.00165	-.00141	481.83	.00146
SDev	.00007	.32	.00150	.00003	.00010	2.72	.00023
%RSD	8.1330	.06082	133.18	2.0307	6.7822	.56378	15.725
#1	.00078	526.83	.00218	.00167	-.00134	483.75	.00130
#2	.00087	527.29	.00007	.00162	-.00148	479.91	.00162
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.00				500.00	
Range		20.000				20.000	
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	.00176	.00053	203.69	529.70	.00820	-.00413
SDev	.00047	.00041	.00006	.23	1.36	.00006	.00297
%RSD	157.21	23.354	12.096	.11362	.25637	.73237	72.024
#1	.00063	.00205	.00057	203.85	530.66	.00824	-.00203
#2	-.00003	.00147	.00048	203.53	528.74	.00815	-.00623
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value				200.00	500.00		
Range				20.000	20.000		
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00290	-.02630	.01139	-.00116	.00338	.00490	.00439
SDev	.00030	.00720	.00345	.00010	.01056	.00415	.00074
%RSD	10.206	27.371	30.267	8.3945	312.61	84.733	16.940
#1	.00269	-.02121	.00895	-.00109	-.00409	.00784	.00387
#2	.00311	-.03139	.01383	-.00123	.01084	.00197	.00492
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00015	-.00529	-.00348	-.00484	.00928	.00597	
SDev	.01746	.00968	.00065	.00241	.00358	.00005	
%RSD	11391.	182.92	18.544	49.794	38.547	.86685	
#1	.01250	-.01214	-.00394	-.00654	.01181	.00601	
#2	-.01219	.00155	-.00302	-.00313	.00675	.00593	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	
Value							
Range							

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13334	--	--	--	--	--	--
SDev	53.91689	--	--	--	--	--	--
%RSD	.4043618	--	--	--	--	--	--
#1	13296	--	--	--	--	--	--
#2	13372	--	--	--	--	--	--

Method: METTRA Sample Name: ICSAB 0057-104-1 Operator: RJG
 Run Time: 10/27/00 17:28:37
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.22206	524.46	.10602	.52209	.49864	480.96	.93331
SDev	.00384	8.87	.00524	.01148	.01002	9.38	.02000
%RSD	1.7315	1.6918	4.9389	2.1983	2.0087	1.9493	2.1431
#1	.22478	530.73	.10972	.53020	.50572	487.59	.94745
#2	.21934	518.18	.10231	.51397	.49155	474.33	.91916
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	500.00	.10000	.50000	.50000	500.00	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49305	.50680	.53986	203.23	526.29	.51327	-.00303
SDev	.00859	.00818	.01141	3.40	9.70	.00882	.00216
%RSD	1.7427	1.6144	2.1127	1.6712	1.8425	1.7180	71.356
#1	.49913	.51259	.54793	205.63	533.15	.51950	-.00150
#2	.48698	.50102	.53180	200.83	519.43	.50703	-.00456
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.50000	.50000	.50000	200.00	500.00	.50000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97418	.01997	.06238	.04826	.63752	.63441	.63545
SDev	.02821	.00118	.00142	.00134	.00552	.01068	.00896
%RSD	2.8953	5.9207	2.2681	2.7714	.86632	1.6833	1.4104
#1	.99413	.02081	.06339	.04921	.64143	.64196	.64178
#2	.95424	.01913	.06138	.04732	.63362	.62686	.62911
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	1.0000			.05000			.60000
Range	20.000			20.000			20.000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.05042	.05355	.05251	.10472	.52183	1.0487	
SDev	.00130	.00319	.00256	.00750	.01099	.0238	
%RSD	2.5867	5.9527	4.8765	7.1583	2.1054	2.2722	
#1	.04950	.05130	.05070	.11003	.52960	1.0656	
#2	.05134	.05580	.05432	.09942	.51406	1.0319	
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	
Value			.05000	.10000	.50000	1.0000	
Range			20.000	20.000	20.000	20.000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13373	--	--	--	--	--	--
SDev	218.6728	--	--	--	--	--	--
%RSD	1.635172	--	--	--	--	--	--
#1	13218	--	--	--	--	--	--
#2	13528	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-3

Operator: RJG

Run Time: 10/27/00 17:32:47

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0399	24.800	.51476	2.0213	2.0316	50.780	.49529
SDev	.0067	.556	.00323	.0073	.0119	.634	.00287
%RSD	.64450	2.2413	.62789	.36241	.58584	1.2487	.58002
#1	1.0352	24.407	.51247	2.0161	2.0232	50.331	.49326
#2	1.0447	25.193	.51704	2.0265	2.0400	51.228	.49732
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0367	2.0328	1.9877	25.269	49.585	2.0192	2.0456
SDev	.0180	.0178	.0137	.341	.736	.0176	.0266
%RSD	.88310	.87332	.69053	1.3508	1.4837	.87077	1.2990
#1	2.0239	2.0202	1.9780	25.027	49.065	2.0067	2.0268
#2	2.0494	2.0453	1.9974	25.510	50.105	2.0316	2.0643
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0031	.51420	.50595	.50870	.51490	.52316	.52041
SDev	.0067	.00229	.00757	.00581	.00568	.00312	.00397
%RSD	.33247	.44556	1.4962	1.1425	1.1031	.59552	.76277
#1	2.0078	.51258	.50060	.50459	.51088	.52096	.51760
#2	1.9984	.51582	.51130	.51281	.51891	.52537	.52322
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.52236	.52029	.52098	1.0231	2.0159	2.0319	
SDev	.00887	.00363	.00537	.0138	.0105	.0079	
%RSD	1.6989	.69691	1.0315	1.3489	.51995	.38834	
#1	.51608	.51772	.51718	1.0133	2.0085	2.0264	
#2	.52863	.52285	.52478	1.0328	2.0233	2.0375	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14252	--	--	--	--	--	--
SDev	149.6235	--	--	--	--	--	--
%RSD	1.049842	--	--	--	--	--	--
#1	14358	--	--	--	--	--	--
#2	14146	--	--	--	--	--	--

Method: METTRA Sample Name: CCB3

Operator: RJG

Run Time: 10/27/00 17:36:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00080	.10583	.00059	.00080	.00091	.18682	.00050
SDev	.00061	.15725	.00063	.00079	.00111	.21219	.00053
%RSD	76.213	148.59	107.39	98.591	121.86	113.58	105.49
#1	.00037	-.00536	.00103	.00024	.00013	.03677	.00013
#2	.00123	H.21702	.00014	.00136	.00169	.33686	.00087
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00082	.00059	.00218	.07843	.16924	.00092	.00411
SDev	.00064	.00116	.00038	.08424	.19726	.00075	.00169
%RSD	77.483	198.44	17.668	107.42	116.55	81.894	41.086
#1	.00037	-.00024	.00191	.01886	.02976	.00039	.00530
#2	.00128	.00141	.00245	H.13800	.30872	.00145	.00291
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00062	-.00112	-.00063	-.00079	.00020	.00057	.00045
SDev	.00143	.00054	.00145	.00114	.00093	.00300	.00231
%RSD	231.07	47.783	229.79	144.22	457.96	522.89	513.11
#1	-.00162	-.00074	.00039	.00002	.00086	.00270	.00209
#2	.00039	-.00150	-.00165	-.00160	-.00046	-.00155	-.00118
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00060	.00013	-.00011	-.00152	-.00110	.00144	
SDev	.00034	.00090	.00072	.00150	.00099	.00115	
%RSD	56.697	669.84	644.04	98.449	89.218	79.796	
#1	-.00036	.00077	.00039	-.00258	-.00180	.00063	
#2	-.00084	-.00050	-.00062	-.00046	-.00041	.00226	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14479	--	--	--	--	--	--
SDev	368.6851	--	--	--	--	--	--
%RSD	2.546379	--	--	--	--	--	--
#1	14218	--	--	--	--	--	--
#2	14740	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FH Operator: RJG
 Run Time: 10/27/00 17:41:05
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	.07603	.00006	.04109	.00011	6.4133	.00005
SDev	.00064	.00028	.00078	.00026	.00007	.0224	.00000
%RSD	246.90	.36171	1358.0	.62894	63.478	.34901	7.8965
#1	.00071	.07622	.00061	.04127	.00006	6.4291	.00005
#2	-.00019	.07583	-.00049	.04091	.00016	6.3974	.00005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01146	.00474	.00772	.07973	3.6523	.14933	-.00023
SDev	.00049	.00020	.00016	.01271	.0152	.00045	.00066
%RSD	4.3015	4.2200	2.1375	15.937	.41702	.30416	288.88
#1	.01180	.00460	.00760	.08871	3.6631	.14965	.00024
#2	.01111	.00488	.00783	.07074	3.6415	.14901	-.00070
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01475	-.00436	.00204	-.00009	.00133	.00088	.00103
SDev	.00182	.00121	.00143	.00055	.00400	.00312	.00075
%RSD	12.313	27.779	70.005	599.45	301.34	354.02	72.565
#1	.01604	-.00350	.00103	-.00048	-.00150	.00309	.00156
#2	.01347	-.00521	.00305	.00030	.00416	-.00132	.00050
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00159	-.00378	-.00199	.00104	-.00020	.04910	
SDev	.00054	.00068	.00028	.00160	.00025	.00020	
%RSD	34.003	18.042	13.816	153.48	121.64	.41213	
#1	.00197	-.00426	-.00219	-.00009	-.00003	.04924	
#2	.00120	-.00330	-.00180	.00217	-.00038	.04896	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14331	--	--	--	--	--	--
SDev	35.03700	--	--	--	--	--	--
%RSD	.2444759	--	--	--	--	--	--
#1	14356	--	--	--	--	--	--
#2	14307	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FN Operator: RJG
 Run Time: 10/27/00 17:45:14
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00100	-.03384	.00103	.08039	.00042	9.6828	.00032
SDev	.00035	.00222	.00095	.00016	.00014	.0318	.00004
%RSD	34.615	6.5482	92.560	.20078	33.866	.32867	13.809
#1	.00125	-.03227	.00036	.08027	.00032	9.7053	.00029
#2	.00076	-.03541	.00171	.08050	.00052	9.6603	.00035
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04779	.00885	.01991	.89904	5.4574	.60497	-.00036
SDev	.00066	.00044	.00002	.00040	.0054	.00184	.00069
%RSD	1.3874	4.9985	.11870	.04505	.09981	.30410	190.12
#1	.04826	.00916	.01989	.89875	5.4612	.60627	.00012
#2	.04732	.00854	.01992	.89932	5.4535	.60367	-.00085
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15732	.00016	-.00009	-.00001	-.00250	-.00061	-.00124
SDev	.00162	.00100	.00046	.00064	.00095	.00123	.00113
%RSD	1.0304	615.48	493.18	8648.3	38.084	200.65	91.534
#1	.15846	-.00055	-.00041	-.00046	-.00317	-.00148	-.00204
#2	.15617	.00087	.00023	.00044	-.00183	.00026	-.00044
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00545	-.00656	-.00256	.00113	-.00051	.04803	
SDev	.00158	.00049	.00085	.00131	.00049	.00052	
%RSD	28.868	7.4753	33.304	115.52	97.532	1.0924	
#1	.00434	-.00690	-.00316	.00021	-.00016	.04840	
#2	.00657	-.00621	-.00195	.00206	-.00086	.04766	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14972	--	--	--	--	--	--
SDev	214.3590	--	--	--	--	--	--
%RSD	1.431692	--	--	--	--	--	--
#1	14821	--	--	--	--	--	--
#2	15124	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FP Operator: RJG
 Run Time: 10/27/00 17:49:23
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00068	.00435	.00042	.08556	.00091	15.251	.00015
SDev	.00038	.00072	.00036	.00055	.00014	.099	.00010
%RSD	56.396	16.465	83.965	.63814	15.725	.64860	63.003
#1	.00041	.00385	.00017	.08595	.00101	15.320	.00008
#2	.00095	.00486	.00068	.08518	.00081	15.181	.00022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03230	.01138	.00411	1.2157	3.8065	.36865	-.00099
SDev	.00023	.00008	.00051	.0103	.0103	.00207	.00016
%RSD	.71500	.71303	12.290	.84595	.27172	.56125	16.238
#1	.03213	.01144	.00376	1.2084	3.8139	.37011	-.00111
#2	.03246	.01132	.00447	1.2229	3.7992	.36719	-.00088
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01666	-.00192	.00103	.00005	.00038	-.00242	-.00149
SDev	.00067	.00053	.00023	.00033	.00058	.00093	.00043
%RSD	4.0427	27.633	22.655	714.94	150.01	38.299	28.689
#1	.01619	-.00229	.00086	-.00019	.00079	-.00308	-.00179
#2	.01714	-.00154	.00119	.00028	-.00002	-.00177	-.00119
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00328	-.00568	-.00269	.00295	-.00093	.03062	
SDev	.00006	.00036	.00022	.00198	.00024	.00222	
%RSD	1.6837	6.3310	8.2122	67.240	25.580	7.2669	
#1	.00331	-.00593	-.00285	.00155	-.00109	.02904	
#2	.00324	-.00542	-.00254	.00435	-.00076	.03219	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15341	--	--	--	--	--	--
SDev	29.06181	--	--	--	--	--	--
%RSD	.1894333	--	--	--	--	--	--
#1	15362	--	--	--	--	--	--
#2	15321	--	--	--	--	--	--

Method: METTRA Sample Name: DNAWWBF Operator: RJG
 Run Time: 10/27/00 17:53:33
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	-.03666	-.00189	.00000	-.00034	.02814	-.00007
SDev	.00013	.00982	.00024	.00003	.00011	.00200	.00007
%RSD	18.160	26.793	12.603	2777.5	32.204	7.1087	100.78
#1	.00077	-.02971	-.00172	-.00002	-.00042	.02673	-.00002
#2	.00060	-.04360	-.00205	.00002	-.00026	.02956	-.00012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00060	-.00021	.00210	.01416	.00238	.00030	-.00185
SDev	.00052	.00054	.00021	.00774	.00377	.00003	.00043
%RSD	87.449	263.43	10.013	54.679	158.68	11.160	23.534
#1	.00023	.00018	.00196	.00869	-.00029	.00028	-.00154
#2	.00097	-.00059	.00225	.01964	.00504	.00033	-.00215
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00032	-.00255	.00166	.00025	-.00198	-.00113	-.00141
SDev	.00069	.00205	.00063	.00027	.00276	.00144	.00004
%RSD	214.26	80.446	37.894	105.00	139.47	127.44	3.1185
#1	.00017	-.00110	.00121	.00044	-.00393	-.00011	-.00138
#2	-.00081	-.00401	.00210	.00007	-.00003	-.00215	-.00144
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00361	-.00548	-.00245	-.00085	-.00146	.00367	
SDev	.00214	.00027	.00089	.00516	.00001	.00033	
%RSD	59.137	4.9400	36.398	604.37	.41574	9.0983	
#1	.00512	-.00528	-.00182	-.00450	-.00146	.00343	
#2	.00210	-.00567	-.00308	.00280	-.00147	.00390	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14500	--	--	--	--	--	--
SDev	182.2920	--	--	--	--	--	--
%RSD	1.257178	--	--	--	--	--	--
#1	14371	--	--	--	--	--	--
#2	14629	--	--	--	--	--	--

Method: METTRA Sample Name: DNAWWCF Operator: RJG
 Run Time: 10/27/00 17:57:42
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05277	2.0517	2.0951	2.0002	.05082	50.346	.04824
SDev	.00033	.0030	.0064	.0141	.00039	.172	.00007
%RSD	.62461	.14693	.30523	.70387	.76084	.34095	.14898
#1	.05254	2.0538	2.0997	2.0101	.05110	50.467	.04818
#2	.05301	2.0495	2.0906	1.9902	.05055	50.225	.04829
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50647	.20204	.24791	.89666	49.441	.49866	1.0078
SDev	.00001	.00007	.00104	.00111	.123	.00098	.0057
%RSD	.00118	.03688	.41919	.12375	.24972	.19661	.56672
#1	.50647	.20209	.24864	.89744	49.528	.49935	1.0038
#2	.50648	.20199	.24717	.89587	49.353	.49797	1.0118
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49438	.50771	.50099	.50323	.50946	.52436	.51940
SDev	.00450	.00178	.00358	.00179	.00196	.00013	.00057
%RSD	.90934	.35021	.71431	.35666	.38511	.02408	.10957
#1	.49756	.50645	.50352	.50450	.50807	.52445	.51900
#2	.49120	.50897	.49846	.50196	.51085	.52427	.51980
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.2057	2.2346	2.2250	2.1117	.49938	.53005	
SDev	.0117	.0023	.0024	.0050	.00095	.00164	
%RSD	.52983	.10104	.10721	.23445	.19048	.30914	
#1	2.1975	2.2362	2.2233	2.1152	.49871	.53121	
#2	2.2140	2.2330	2.2267	2.1082	.50005	.52889	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14536	--	--	--	--	--	--
SDev	63.07406	--	--	--	--	--	--
%RSD	.4339297	--	--	--	--	--	--
#1	14580	--	--	--	--	--	--
#2	14491	--	--	--	--	--	--

Method: METTRA Sample Name: DM3ETF Operator: RJG
 Run Time: 10/27/00 18:01:52
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00061	-.07739	.00197	.04828	.00070	7.8404	.00001
SDev	.00044	.00686	.00002	.00016	.00051	.0650	.00009
%RSD	71.408	8.8667	.89952	.32401	73.387	.82856	633.09
#1	.00030	-.08224	.00198	.04817	.00106	7.7945	-.00005
#2	.00092	-.07254	.00196	.04839	.00034	7.8864	.00007
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06429	-.00014	.00065	42.704	3.6649	1.0776	.00004
SDev	.00095	.00006	.00044	.551	.0445	.0133	.00079
%RSD	1.4830	40.468	66.993	1.2899	1.2132	1.2372	2255.8
#1	.06362	-.00010	.00034	42.315	3.6335	1.0682	.00060
#2	.06497	-.00018	.00096	43.094	3.6964	1.0871	-.00053
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00177	-.00118	.00105	.00031	-.00072	.00149	.00075
SDev	.00061	.00303	.00114	.00025	.00222	.00072	.00026
%RSD	34.363	257.73	108.51	79.006	306.32	48.077	34.786
#1	.00134	.00097	.00025	.00049	-.00229	.00199	.00057
#2	.00220	-.00332	.00186	.00014	.00084	.00098	.00094
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00483	-.00190	.00034	.00343	-.00001	.00222	
SDev	.00023	.00485	.00331	.00346	.00281	.00006	
%RSD	4.7551	255.32	974.65	100.76	25049.	2.5124	
#1	.00467	-.00533	-.00200	.00588	.00198	.00218	
#2	.00499	.00153	.00268	.00099	-.00200	.00226	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15414	--	--	--	--	--	--
SDev	284.5400	--	--	--	--	--	--
%RSD	1.845937	--	--	--	--	--	--
#1	15616	--	--	--	--	--	--
#2	15213	--	--	--	--	--	--

Method: METTRA Sample Name: DM3EXF Operator: RJG
 Run Time: 10/27/00 18:06:02
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	-.00050	-.00040	.05352	.00015	6.3241	.00011
SDev	.00059	.00182	.00084	.00018	.00018	.0494	.00018
%RSD	475.22	365.14	211.91	.34649	124.18	.78098	160.82
#1	-.00029	-.00179	-.00099	.05366	.00027	6.3590	.00024
#2	.00054	.00079	.00020	.05339	.00002	6.2892	-.00002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01860	.00215	.00328	.20733	3.7748	.28824	-.00163
SDev	.00012	.00004	.00011	.01153	.0203	.00103	.00008
%RSD	.65049	1.8949	3.3346	5.5594	.53779	.35632	5.2154
#1	.01869	.00212	.00321	.19918	3.7892	.28897	-.00169
#2	.01852	.00218	.00336	.21548	3.7605	.28751	-.00157
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02232	-.00194	-.00052	-.00099	.00042	-.00134	-.00075
SDev	.00121	.00008	.00064	.00045	.00028	.00272	.00172
%RSD	5.4344	4.3018	122.26	45.692	66.868	203.22	228.58
#1	.02318	-.00188	-.00007	-.00067	.00022	.00059	.00046
#2	.02146	-.00200	-.00097	-.00132	.00062	-.00327	-.00197
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00503	-.00322	-.00047	.00363	-.00123	.03443	
SDev	.00011	.00105	.00074	.00097	.00024	.00003	
%RSD	2.2650	32.621	155.65	26.843	19.397	.08415	
#1	.00511	-.00248	.00005	.00431	-.00106	.03445	
#2	.00495	-.00396	-.00100	.00294	-.00140	.03441	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14602	--	--	--	--	--	--
SDev	20.47088	--	--	--	--	--	--
%RSD	.1401897	--	--	--	--	--	--
#1	14617	--	--	--	--	--	--
#2	14588	--	--	--	--	--	--

Method: METTRA Sample Name: DM3E1F Operator: RJG
 Run Time: 10/27/00 18:10:11
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00104	-.04009	.00025	.14746	-.00004	12.424	.00006
SDev	.00058	.02744	.00009	.00552	.00052	.514	.00025
%RSD	55.912	68.453	33.795	3.7410	1197.7	4.1382	414.95
#1	.00145	-.02068	.00032	.15136	-.00041	12.787	.00023
#2	.00063	-.05949	.00019	.14356	.00032	12.060	-.00012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11801	.00277	.00182	1.8098	8.0930	2.0563	-.00127
SDev	.00464	.00048	.00052	.0733	.3253	.0810	.00035
%RSD	3.9306	17.385	28.672	4.0476	4.0192	3.9398	27.142
#1	.12129	.00311	.00219	1.8616	8.3230	2.1136	-.00152
#2	.11473	.00243	.00145	1.7580	7.8630	1.9990	-.00103
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01761	-.00202	.00191	.00061	.00063	.00014	.00030
SDev	.00070	.00228	.00068	.00031	.00331	.00041	.00083
%RSD	3.9771	113.33	35.344	51.099	529.86	285.71	273.72
#1	.01810	-.00040	.00144	.00082	-.00172	.00043	-.00028
#2	.01711	-.00363	.00239	.00039	.00297	-.00015	.00089
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00425	-.00592	-.00253	.00370	-.00154	.11555	
SDev	.00342	.00006	.00118	.00173	.00003	.00454	
%RSD	80.555	1.0477	46.624	46.695	1.6204	3.9322	
#1	.00667	-.00588	-.00170	.00493	-.00153	.11876	
#2	.00183	-.00597	-.00337	.00248	-.00156	.11233	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14539	--	--	--	--	--	--
SDev	456.0487	--	--	--	--	--	--
%RSD	3.136775	--	--	--	--	--	--
#1	14216	--	--	--	--	--	--
#2	14861	--	--	--	--	--	--

Method: METTRA Sample Name: DM3E2F Operator: RJG
 Run Time: 10/27/00 18:14:20
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	.02762	-.00047	.07421	.00126	5.0107	.00015
SDev	.00012	.02398	.00023	.00243	.00068	.1787	.00015
%RSD	16.752	86.847	48.173	3.2780	54.276	3.5662	94.846
#1	.00061	.01066	-.00063	.07249	.00174	4.8843	.00005
#2	.00077	.04458	-.00031	.07593	.00077	5.1370	.00026
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03831	.00195	.00431	.04741	3.5286	.29998	-.00134
SDev	.00142	.00040	.00066	.00328	.1301	.01110	.00131
%RSD	3.7180	20.495	15.361	6.9162	3.6870	3.7006	97.993
#1	.03730	.00167	.00384	.04509	3.4366	.29213	-.00227
#2	.03932	.00223	.00478	.04973	3.6206	.30783	-.00041
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01616	-.00140	.00121	.00034	-.00046	-.00153	-.00118
SDev	.00069	.00310	.00033	.00081	.00142	.00215	.00190
%RSD	4.2559	222.04	27.268	239.05	305.12	140.15	161.84
#1	.01567	-.00359	.00144	-.00023	.00054	-.00001	.00017
#2	.01665	.00080	.00097	.00092	-.00147	-.00305	-.00252
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00359	-.00669	-.00327	.00158	-.00151	.02972	
SDev	.00478	.00396	.00423	.00082	.00043	.00101	
%RSD	132.97	59.192	129.56	51.534	28.464	3.4000	
#1	.00697	-.00389	-.00027	.00216	-.00121	.02901	
#2	.00021	-.00949	L-.00626	.00101	-.00181	.03044	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15624	--	--	--	--	--	--
SDev	604.2227	--	--	--	--	--	--
%RSD	3.867273	--	--	--	--	--	--
#1	16051	--	--	--	--	--	--
#2	15197	--	--	--	--	--	--

Method: METTRA Sample Name: DM3E4F Operator: RJG
 Run Time: 10/27/00 18:18:30
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00098	-.05037	-.00031	.12903	.00026	16.684	-.00001
SDev	.00003	.00665	.00184	.00016	.00026	.022	.00032
%RSD	3.3122	13.194	585.77	.12357	97.576	.13149	4671.7
#1	.00095	-.04567	-.00162	.12914	.00044	16.700	-.00023
#2	.00100	-.05507	.00099	.12892	.00008	16.669	.00022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01768	.00194	.00216	.32002	7.9047	.28397	-.00156
SDev	.00055	.00018	.00109	.00989	.0173	.00082	.00007
%RSD	3.1191	9.4152	50.599	3.0899	.21858	.28727	4.2077
#1	.01729	.00181	.00139	.31303	7.8925	.28339	-.00151
#2	.01807	.00207	.00294	.32701	7.9170	.28454	-.00161
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00791	-.00160	.00106	.00017	-.00067	-.00235	-.00179
SDev	.00026	.00090	.00011	.00038	.00149	.00012	.00058
%RSD	3.3144	56.580	10.386	214.56	223.32	5.0886	32.194
#1	.00772	-.00096	.00114	.00044	.00039	-.00226	-.00138
#2	.00810	-.00224	.00098	-.00009	-.00172	-.00243	-.00220
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00704	-.00641	-.00193	.00204	-.00205	.03005	
SDev	.00039	.00016	.00024	.00165	.00000	.00001	
%RSD	5.5519	2.5499	12.401	80.712	.16452	.03126	
#1	.00732	-.00629	-.00176	.00321	-.00205	.03006	
#2	.00676	-.00652	-.00210	.00088	-.00205	.03004	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14974	--	--	--	--	--	--
SDev	117.5565	--	--	--	--	--	--
%RSD	.7850931	--	--	--	--	--	--
#1	15057	--	--	--	--	--	--
#2	14890	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-4 Operator: RJG
 Run Time: 10/27/00 18:22:39
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0142	23.999	.50292	1.9732	1.9797	49.262	.48401
SDev	.0148	.342	.00848	.0395	.0308	.775	.00705
%RSD	1.4624	1.4241	1.6858	2.0018	1.5577	1.5731	1.4562
#1	1.0247	24.240	.50891	2.0011	2.0015	49.810	.48899
#2	1.0038	23.757	.49692	1.9453	1.9579	48.714	.47903
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9829	1.9780	1.9371	24.519	48.211	1.9644	1.9912
SDev	.0245	.0275	.0329	.283	.725	.0266	.0221
%RSD	1.2355	1.3883	1.6988	1.1536	1.5033	1.3532	1.1084
#1	2.0002	1.9974	1.9604	24.719	48.723	1.9832	2.0068
#2	1.9655	1.9586	1.9138	24.319	47.698	1.9456	1.9756
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9609	.49907	.49324	.49518	.50315	.50652	.50540
SDev	.0479	.00645	.00003	.00217	.00112	.00597	.00435
%RSD	2.4409	1.2923	.00607	.43774	.22256	1.1780	.86125
#1	1.9948	.50363	.49326	.49672	.50394	.51074	.50848
#2	1.9271	.49451	.49322	.49365	.50236	.50230	.50232
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.50782	.50774	.50777	1.0091	1.9639	1.9946	
SDev	.00117	.00244	.00201	.0195	.0350	.0337	
%RSD	.23014	.47981	.39666	1.9318	1.7838	1.6906	
#1	.50864	.50947	.50919	1.0229	1.9887	2.0185	
#2	.50699	.50602	.50634	.99531	1.9392	1.9708	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14532	--	--	--	--	--	--
SDev	70.39234	--	--	--	--	--	--
%RSD	.4843912	--	--	--	--	--	--
#1	14482	--	--	--	--	--	--
#2	14582	--	--	--	--	--	--

Method: METTRA Sample Name: CCB4 Operator: RJG
 Run Time: 10/27/00 18:26:48
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00109	.01412	-.00041	.00029	-.00033	.00962	.00011
SDev	.00033	.00990	.00102	.00000	.00013	.00307	.00001
%RSD	30.128	70.127	247.19	.78513	38.653	31.943	4.5969
#1	.00085	.02112	-.00114	.00029	-.00024	.00745	.00010
#2	.00132	.00712	.00031	.00029	-.00042	.01179	.00011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00036	.00046	.00083	.02374	.00785	.00045	.00349
SDev	.00043	.00091	.00109	.00363	.00042	.00000	.00142
%RSD	118.02	198.90	131.15	15.303	5.3891	.77527	40.716
#1	.00006	-.00019	.00006	.02117	.00815	.00045	.00450
#2	.00066	.00110	.00160	.02631	.00755	.00045	.00249
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00040	.00124	-.00014	.00032	-.00075	-.00014	-.00034
SDev	.00010	.00289	.00074	.00047	.00200	.00074	.00017
%RSD	24.402	233.11	537.07	145.34	266.54	522.56	49.804
#1	-.00047	-.00080	.00039	-.00001	-.00216	.00038	-.00046
#2	-.00033	.00328	-.00066	.00065	.00066	-.00066	-.00022
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00512	.00103	-.00102	-.00234	.00040	.00029	
SDev	.00265	.00074	.00137	.00073	.00310	.00022	
%RSD	51.768	72.032	134.93	31.196	771.27	75.749	
#1	-.00699	.00050	-.00199	-.00182	-.00179	.00013	
#2	-.00324	.00155	-.00005	-.00285	.00259	.00044	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13757	--	--	--	--	--	--
SDev	46.35140	--	--	--	--	--	--
%RSD	.3369277	--	--	--	--	--	--
#1	13724	--	--	--	--	--	--
#2	13790	--	--	--	--	--	--

Method: METTRA Sample Name: DM3E6F Operator: RJG
 Run Time: 10/27/00 18:30:58
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	-.07625	-.00110	.08925	.00139	32.022	.00006
SDev	.00020	.02504	.00102	.00379	.00055	1.332	.00009
%RSD	60.417	32.837	93.356	4.2464	39.415	4.1589	159.30
#1	.00019	-.09396	-.00182	.08657	.00177	31.080	-.00001
#2	.00047	-.05855	-.00037	.09193	.00100	32.963	.00013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01378	-.00031	.00255	.02160	3.5777	.15701	-.00058
SDev	.00035	.00012	.00061	.00301	.1561	.00690	.00041
%RSD	2.5537	39.195	24.047	13.923	4.3637	4.3925	70.375
#1	.01353	-.00040	.00212	.02373	3.4673	.15213	-.00087
#2	.01403	-.00023	.00299	.01947	3.6880	.16188	-.00029
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02006	-.00488	.00064	-.00120	.00050	-.00065	-.00027
SDev	.00016	.00124	.00010	.00048	.00320	.00049	.00139
%RSD	.80375	25.442	15.149	39.876	644.73	75.381	515.83
#1	.02017	-.00400	.00071	-.00086	-.00177	-.00100	-.00126
#2	.01994	-.00576	.00057	-.00154	.00276	-.00030	.00072
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00736	-.00578	-.00140	.00478	-.00135	.04173	
SDev	.00053	.00520	.00329	.00367	.00020	.00148	
%RSD	7.1635	89.957	234.81	76.784	15.031	3.5593	
#1	.00774	-.00945	-.00373	.00219	-.00120	.04068	
#2	.00699	-.00210	.00093	.00738	-.00149	.04278	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15530	--	--	--	--	--	--
SDev	530.3301	--	--	--	--	--	--
%RSD	3.414930	--	--	--	--	--	--
#1	15905	--	--	--	--	--	--
#2	15155	--	--	--	--	--	--

Method: METTRA Sample Name: DM3E8F Operator: RJG
 Run Time: 10/27/00 18:35:07
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	-.05827	.00115	.09153	.00055	14.916	-.00018
SDev	.00029	.00767	.00019	.00051	.00005	.080	.00005
%RSD	485.64	13.160	16.978	.55661	9.7536	.53885	30.336
#1	.00026	-.05285	.00129	.09189	.00059	14.973	-.00021
#2	-.00014	-.06369	.00101	.09117	.00052	14.859	-.00014
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02070	.00230	.00131	.06900	7.3110	.42705	-.00118
SDev	.00020	.00029	.00026	.01072	.0301	.00138	.00032
%RSD	.99022	12.583	20.102	15.531	.41135	.32427	27.224
#1	.02056	.00250	.00149	.06142	7.3323	.42803	-.00096
#2	.02085	.00209	.00112	.07657	7.2897	.42607	-.00141
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00572	-.00396	.00080	-.00079	.00052	.00053	.00053
SDev	.00038	.00193	.00052	.00030	.00078	.00101	.00041
%RSD	6.7358	48.673	64.701	37.846	148.02	188.50	77.786
#1	.00599	-.00260	.00043	-.00058	-.00002	.00125	.00082
#2	.00545	-.00533	.00116	-.00100	.00107	-.00018	.00024
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00421	-.00513	-.00202	.00325	-.00214	.00598	
SDev	.00079	.00436	.00317	.00147	.00000	.00007	
%RSD	18.757	84.960	156.82	45.199	.17113	1.1397	
#1	.00365	-.00822	-.00427	.00429	-.00214	.00593	
#2	.00477	-.00205	.00022	.00221	-.00213	.00603	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15132	--	--	--	--	--	--
SDev	31.43103	--	--	--	--	--	--
%RSD	.2077072	--	--	--	--	--	--
#1	15110	--	--	--	--	--	--
#2	15155	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FDF Operator: RJG
 Run Time: 10/27/00 18:39:16
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00093	-.04261	-.00098	.06928	.00057	17.458	.00023
SDev	.00035	.03323	.00042	.00424	.00065	1.046	.00008
%RSD	37.419	77.991	42.346	6.1130	114.33	5.9899	33.119
#1	.00069	-.01911	-.00069	.07228	.00011	18.198	.00018
#2	.00118	-.06611	-.00127	.06629	.00103	16.719	.00029
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02891	.00049	.00319	.01827	3.2336	.49138	-.00061
SDev	.00145	.00013	.00049	.00591	.1831	.02883	.00029
%RSD	5.0198	26.956	15.320	32.323	5.6632	5.8680	47.676
#1	.02994	.00039	.00353	.01410	3.3631	.51177	-.00040
#2	.02789	.00058	.00284	.02245	3.1041	.47100	-.00081
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01581	-.00128	-.00045	-.00073	-.00105	-.00021	-.00049
SDev	.00128	.00139	.00154	.00057	.00049	.00249	.00182
%RSD	8.0639	108.63	340.30	78.022	46.382	1196.6	371.78
#1	.01671	-.00030	-.00154	-.00113	-.00071	.00155	.00080
#2	.01490	-.00226	.00064	-.00033	-.00140	-.00196	-.00178
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00767	-.00460	-.00052	.00027	-.00098	.05338	
SDev	.00137	.00455	.00349	.00597	.00029	.00328	
%RSD	17.817	98.885	676.57	2231.5	29.350	6.1439	
#1	.00863	-.00138	.00195	-.00395	-.00078	.05570	
#2	.00670	-.00782	-.00298	.00449	-.00119	.05107	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15096	--	--	--	--	--	--
SDev	702.1218	--	--	--	--	--	--
%RSD	4.651146	--	--	--	--	--	--
#1	14599	--	--	--	--	--	--
#2	15592	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FFF Operator: RJG
 Run Time: 10/27/00 18:43:25
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00080	-.02661	-.00002	.10034	.00045	21.357	-.00008
SDev	.00004	.00972	.00089	.00101	.00005	.217	.00011
%RSD	5.1891	36.536	5237.1	1.0110	10.242	1.0138	131.35
#1	.00083	-.01974	.00061	.10106	.00042	21.510	-.00016
#2	.00077	-.03349	-.00064	.09962	.00048	21.204	-.00001
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00503	.00195	.00228	-.00060	2.1589	.06581	-.00148
SDev	.00000	.00013	.00026	.00221	.0211	.00064	.00050
%RSD	.05531	6.8766	11.511	365.42	.97579	.96641	33.983
#1	.00503	.00204	.00209	-.00217	2.1738	.06626	-.00113
#2	.00504	.00185	.00246	.00096	2.1440	.06536	-.00184
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01178	-.00505	.00063	-.00127	-.00080	.00148	.00072
SDev	.00016	.00132	.00089	.00016	.00025	.00084	.00048
%RSD	1.3494	26.059	142.55	12.388	30.876	57.061	66.846
#1	.01167	-.00412	-.00000	-.00138	-.00063	.00088	.00038
#2	.01189	-.00599	.00126	-.00115	-.00098	.00207	.00105
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00707	-.00470	-.00078	.00302	-.00097	.01794	
SDev	.00085	.00446	.00269	.00176	.00073	.00012	
%RSD	11.963	94.925	346.40	58.031	75.002	.66248	
#1	.00648	-.00154	.00113	.00178	-.00046	.01785	
#2	.00767	-.00785	-.00268	.00426	-.00149	.01802	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14846	--	--	--	--	--	--
SDev	137.2844	--	--	--	--	--	--
%RSD	.9246933	--	--	--	--	--	--
#1	14749	--	--	--	--	--	--
#2	14944	--	--	--	--	--	--

Method: METTRA Sample Name: CRI-3 Operator: RJG
 Run Time: 10/27/00 18:47:35
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02115	.37549	.02025	.41414	.01008	10.210	.01040
SDev	.00013	.00437	.00204	.00221	.00006	.038	.00021
%RSD	.59193	1.1642	10.069	.53283	.59285	.37616	2.0051
#1	.02106	.37858	.02169	.41570	.01012	10.237	.01025
#2	.02124	.37240	.01881	.41258	.01004	10.183	.01054
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.03000	.60000	.03000	.60000	.01500	15.000	.01500
Low	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10534	.02086	.04975	.17889	9.8517	.03081	-.00158
SDev	.00044	.00005	.00009	.01728	.0114	.00011	.00008
%RSD	.41472	.25944	.18650	9.6585	.11535	.36317	5.3637
#1	.10503	.02083	.04968	.16667	9.8597	.03073	-.00152
#2	.10564	.02090	.04981	.19111	9.8437	.03089	-.00164
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.15000	.03000	.07500	.30000	15.000	.04500	
Low	.05000	.01000	.02500	.10000	5.0000	.01500	
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08170	.00837	.00599	.00678	.12235	.12586	.12469
SDev	.00119	.00069	.00033	.00001	.00107	.00029	.00016
%RSD	1.4551	8.2865	5.5631	.12791	.87717	.23289	.12982
#1	.08254	.00788	.00622	.00677	.12159	.12606	.12457
#2	.08086	.00886	.00575	.00679	.12311	.12565	.12480
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.12000			.00900			.18000
Low	.04000			.00300			.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01026	.00811	.00882	.01816	.10134	.04278	
SDev	.00078	.00023	.00041	.00200	.00075	.00017	
%RSD	7.6163	2.8450	4.6925	11.040	.74409	.39105	
#1	.00971	.00794	.00853	.01958	.10187	.04289	
#2	.01081	.00827	.00912	.01675	.10080	.04266	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.01500	.03000	.15000	.06000	
Low			.00500	.01000	.05000	.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14224	--	--	--	--	--	--
SDev	1.343779	--	--	--	--	--	--
%RSD	.0094476	--	--	--	--	--	--
#1	14223	--	--	--	--	--	--
#2	14224	--	--	--	--	--	--

Method: METTRA Sample Name: ICSA 0057-115-1 Operator: RJG
 Run Time: 10/27/00 18:51:45
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00091	530.70	-.00010	.00162	-.00155	486.26	.00110
SDev	.00021	16.16	.00422	.00005	.00070	13.45	.00010
%RSD	23.187	3.0449	4098.4	3.0105	45.365	2.7655	8.6378
#1	.00076	519.27	.00288	.00158	-.00105	476.75	.00103
#2	.00106	542.12	-.00308	.00165	-.00204	495.77	.00117
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.00				500.00	
Range		20.000				20.000	
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00057	.00189	.00038	204.81	534.05	.00827	-.00487
SDev	.00019	.00081	.00013	6.55	16.19	.00035	.00113
%RSD	32.834	42.770	34.426	3.1957	3.0312	4.2613	23.310
#1	.00070	.00132	.00029	200.18	522.60	.00802	-.00406
#2	.00044	.00246	.00047	209.44	545.49	.00852	-.00567
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value				200.00	500.00		
Range				20.000	20.000		
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00172	-.02521	.00998	-.00174	-.00017	.00751	.00495
SDev	.00192	.00275	.00190	.00218	.00249	.00491	.00245
%RSD	111.40	10.898	19.015	125.62	1485.1	65.452	49.419
#1	.00308	-.02715	.00864	-.00328	-.00193	.01098	.00668
#2	.00037	-.02326	.01132	-.00019	.00160	.00403	.00322
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00024	-.00347	-.00240	-.00750	.00995	.00581	
SDev	.00603	.00622	.00214	.00198	.00238	.00007	
%RSD	2481.8	178.99	89.233	26.383	23.958	1.2745	
#1	.00402	-.00787	-.00391	-.00889	.01163	.00576	
#2	-.00450	.00092	-.00088	-.00610	.00826	.00586	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	
Value							
Range							

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13199	--	--	--	--	--	--
SDev	377.5950	--	--	--	--	--	--
%RSD	2.860883	--	--	--	--	--	--
#1	13466	--	--	--	--	--	--
#2	12932	--	--	--	--	--	--

Method: METTRA Sample Name: ICSAB 0057-104-1 Operator: RJG
 Run Time: 10/27/00 18:55:54
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22062	519.44	.10344	.51862	.49292	475.14	.92207
SDev	.00718	18.73	.00521	.02077	.01866	18.41	.03585
%RSD	3.2542	3.6067	5.0380	4.0053	3.7857	3.8750	3.8885
#1	.22570	532.69	.10713	.53331	.50612	488.16	.94743
#2	.21555	506.19	.09976	.50393	.47973	462.12	.89672
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	500.00	.10000	.50000	.50000	500.00	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48733	.50048	.53584	200.60	520.83	.50677	-.00179
SDev	.01875	.01808	.01961	7.27	18.84	.01874	.00320
%RSD	3.8476	3.6122	3.6598	3.6238	3.6179	3.6988	178.32
#1	.50059	.51326	.54970	205.74	534.16	.52002	.00047
#2	.47407	.48769	.52197	195.46	507.51	.49351	-.00405
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.50000	.50000	.50000	200.00	500.00	.50000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96550	.01686	.06241	.04724	.62270	.63156	.62861
SDev	.04327	.00379	.00248	.00040	.00877	.01318	.01171
%RSD	4.4816	22.458	3.9804	.83761	1.4076	2.0870	1.8629
#1	.99609	.01419	.06416	.04752	.62890	.64088	.63689
#2	.93490	.01954	.06065	.04696	.61651	.62224	.62033
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	1.0000			.05000			.60000
Range	20.000			20.000			20.000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.04842	.05080	.05001	.10664	.51495	1.0421	
SDev	.00608	.00493	.00127	.00456	.02173	.0419	
%RSD	12.555	9.7090	2.5301	4.2716	4.2190	4.0212	
#1	.05272	.04731	.04911	.10987	.53031	1.0717	
#2	.04413	.05429	.05090	.10342	.49959	1.0125	
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	
Value			.05000	.10000	.50000	1.0000	
Range			20.000	20.000	20.000	20.000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13367	--	--	--	--	--	--
SDev	406.9047	--	--	--	--	--	--
%RSD	3.044105	--	--	--	--	--	--
#1	13079	--	--	--	--	--	--
#2	13655	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-5 Operator: RJG
 Run Time: 10/27/00 19:00:04
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0262	24.323	.50796	1.9969	1.9971	49.756	.48820
SDev	.0027	.222	.00202	.0016	.0058	.062	.00089
%RSD	.26782	.91074	.39849	.08079	.29273	.12390	.18279
#1	1.0282	24.166	.50939	1.9981	2.0013	49.799	.48884
#2	1.0243	24.480	.50653	1.9958	1.9930	49.712	.48757
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9982	1.9927	1.9619	24.764	48.656	1.9809	2.0065
SDev	.0009	.0026	.0017	.080	.117	.0014	.0076
%RSD	.04683	.13227	.08444	.32136	.24077	.06826	.38031
#1	1.9988	1.9945	1.9607	24.708	48.573	1.9818	2.0011
#2	1.9975	1.9908	1.9631	24.821	48.739	1.9799	2.0118
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9782	.50304	.49501	.49768	.50383	.51302	.50996
SDev	.0116	.00578	.00010	.00186	.00380	.00496	.00204
%RSD	.58738	1.1498	.01949	.37407	.75474	.96695	.40052
#1	1.9864	.50713	.49494	.49900	.50115	.51653	.51140
#2	1.9700	.49895	.49508	.49637	.50652	.50951	.50852
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.51611	.51210	.51344	1.0131	1.9855	2.0130	
SDev	.00441	.00111	.00073	.0048	.0049	.0030	
%RSD	.85372	.21581	.14219	.47571	.24550	.15111	
#1	.51923	.51132	.51395	1.0097	1.9889	2.0151	
#2	.51300	.51288	.51292	1.0165	1.9820	2.0108	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14407	--	--	--	--	--	--
SDev	3.853870	--	--	--	--	--	--
%RSD	.0267501	--	--	--	--	--	--
#1	14410	--	--	--	--	--	--
#2	14404	--	--	--	--	--	--

Method: METTRA Sample Name: CCB5 Operator: RJG
 Run Time: 10/27/00 19:04:14
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00121	.05180	.00056	.00087	.00095	.12245	.00033
SDev	.00027	.10287	.00024	.00078	.00077	.12366	.00034
%RSD	22.027	198.60	42.277	89.586	80.897	100.99	101.51
#1	.00102	-.02094	.00039	.00032	.00041	.03500	.00009
#2	.00140	.12454	.00073	.00142	.00149	.20989	.00057
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00155	.00095	.00147	.06150	.11339	.00078	.00324
SDev	.00055	.00036	.00159	.05916	.10988	.00076	.00119
%RSD	35.147	37.882	107.96	96.199	96.906	97.510	36.794
#1	.00117	.00069	.00035	.01966	.03569	.00024	.00409
#2	.00194	.00120	.00260	H.10333	.19108	.00131	.00240
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	-.00194	-.00023	-.00080	.00098	.00124	.00115
SDev	.00066	.00181	.00039	.00086	.00020	.00201	.00128
%RSD	136.37	92.875	164.78	106.84	20.416	162.69	110.71
#1	.00002	-.00067	.00004	-.00020	.00084	.00266	.00205
#2	.00096	-.00322	-.00051	-.00141	.00112	-.00019	.00025
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00155	-.00096	-.00116	-.00172	.00253	.00122	
SDev	.00058	.00082	.00036	.00140	.00024	.00085	
%RSD	37.638	86.050	30.773	81.001	9.5125	69.408	
#1	-.00196	-.00038	-.00090	-.00074	.00236	.00062	
#2	-.00114	-.00154	-.00141	-.00271	.00270	.00182	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14528	--	--	--	--	--	--
SDev	74.63498	--	--	--	--	--	--
%RSD	.5137453	--	--	--	--	--	--
#1	14475	--	--	--	--	--	--
#2	14580	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FGF Operator: RJG
 Run Time: 10/27/00 19:08:23
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00134	-.01809	-.00032	.09028	.00032	11.738	.00007
SDev	.00035	.00438	.00073	.00049	.00014	.056	.00005
%RSD	25.961	24.231	225.74	.54732	44.056	.47840	72.809
#1	.00109	-.02119	-.00084	.09063	.00041	11.777	.00003
#2	.00158	-.01499	.00019	.08993	.00022	11.698	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01095	.00194	.00198	.03800	7.7650	.18822	-.00020
SDev	.00024	.00047	.00040	.01527	.0140	.00040	.00000
%RSD	2.1940	24.061	20.193	40.184	.17983	.21198	1.8568
#1	.01078	.00161	.00170	.02720	7.7749	.18850	-.00020
#2	.01112	.00227	.00226	.04879	7.7551	.18794	-.00021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00429	-.00219	.00066	-.00029	-.00167	.00083	-.00000
SDev	.00039	.00115	.00055	.00002	.00271	.00027	.00108
%RSD	9.0082	52.640	82.555	7.0109	162.89	32.198	26375.
#1	.00456	-.00301	.00105	-.00030	.00025	.00101	.00076
#2	.00402	-.00138	.00028	-.00027	-.00358	.00064	-.00077
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00388	-.00636	-.00295	.00028	-.00215	.01050	
SDev	.00281	.00107	.00165	.00214	.00001	.00005	
%RSD	72.519	16.834	55.933	757.28	.24264	.49382	
#1	.00189	-.00712	-.00412	.00180	-.00215	.01053	
#2	.00587	-.00561	-.00178	-.00123	-.00214	.01046	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14749	--	--	--	--	--	--
SDev	17.32412	--	--	--	--	--	--
%RSD	.1174596	--	--	--	--	--	--
#1	14737	--	--	--	--	--	--
#2	14761	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FGP5F Operator: RJG
 Run Time: 10/27/00 19:12:33
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00068	-.01217	.00151	.01798	.00001	2.3553	.00014
SDev	.00058	.01131	.00028	.00010	.00007	.0091	.00007
%RSD	85.378	92.915	18.909	.55451	553.12	.38530	48.689
#1	.00027	-.02016	.00171	.01805	-.00004	2.3617	.00009
#2	.00110	-.00417	.00130	.01791	.00006	2.3489	.00019
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00233	.00089	.00061	.01794	1.5463	.03768	-.00079
SDev	.00040	.00027	.00117	.01630	.0063	.00022	.00024
%RSD	17.155	30.491	191.93	90.846	.40619	.57689	30.656
#1	.00205	.00070	-.00022	.00642	1.5418	.03783	-.00096
#2	.00262	.00108	.00143	.02947	1.5507	.03753	-.00062
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00173	-.00006	-.00059	-.00041	-.00077	.00027	-.00008
SDev	.00144	.00030	.00157	.00115	.00050	.00090	.00077
%RSD	83.325	513.01	264.62	276.20	65.406	334.66	1014.1
#1	.00071	-.00027	-.00170	-.00122	-.00113	-.00037	-.00062
#2	.00275	.00015	.00052	.00040	-.00041	.00091	.00047
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00120	-.00175	-.00157	-.00239	-.00129	.00274	
SDev	.00134	.00177	.00073	.00284	.00025	.00035	
%RSD	111.50	100.98	46.815	118.55	19.357	12.932	
#1	-.00215	-.00050	-.00105	-.00039	-.00146	.00249	
#2	-.00025	-.00301	-.00209	-.00440	-.00111	.00299	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14452	--	--	--	--	--	--
SDev	47.94170	--	--	--	--	--	--
%RSD	.3317191	--	--	--	--	--	--
#1	14419	--	--	--	--	--	--
#2	14486	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FGXF Operator: RJG
 Run Time: 10/27/00 19:16:42
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00083	-.02628	-.00167	.08353	.00016	10.825	.00020
SDev	.00016	.00172	.00020	.00042	.00008	.047	.00020
%RSD	19.688	6.5479	11.712	.50539	50.008	.43742	98.511
#1	.00095	-.02750	-.00180	.08383	.00022	10.859	.00034
#2	.00071	-.02506	-.00153	.08323	.00010	10.792	.00006
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00971	.00166	.00152	.01907	7.1854	.17415	-.00176
SDev	.00024	.00039	.00029	.00417	.0115	.00028	.00041
%RSD	2.4629	23.530	19.191	21.846	.16049	.15873	23.500
#1	.00955	.00194	.00173	.01612	7.1935	.17435	-.00205
#2	.00988	.00139	.00132	.02201	7.1772	.17396	-.00147
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00571	-.00128	-.00066	-.00087	-.00098	.00065	.00011
SDev	.00084	.00009	.00093	.00065	.00118	.00126	.00045
%RSD	14.618	7.1739	139.41	74.731	120.55	194.39	416.14
#1	.00630	-.00134	-.00132	-.00133	-.00181	.00154	.00043
#2	.00512	-.00121	-.00001	-.00041	-.00014	-.00024	-.00021
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00718	-.00551	-.00128	.00141	-.00164	.00562	
SDev	.00061	.00006	.00024	.00176	.00024	.00018	
%RSD	8.5277	1.0089	18.747	124.94	14.528	3.2008	
#1	.00674	-.00555	-.00145	.00265	-.00147	.00549	
#2	.00761	-.00547	-.00111	.00016	-.00181	.00575	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14727	--	--	--	--	--	--
SDev	42.14329	--	--	--	--	--	--
%RSD	.2861693	--	--	--	--	--	--
#1	14756	--	--	--	--	--	--
#2	14697	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FGSF Operator: RJG
 Run Time: 10/27/00 19:20:52
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05414	2.1301	.04341	2.1190	.05193	62.108	.05020
SDev	.00032	.0117	.00122	.0066	.00040	.308	.00004
%RSD	.59836	.54840	2.8224	.31115	.76202	.49629	.07392
#1	.05391	2.1383	.04428	2.1237	.05221	62.326	.05023
#2	.05437	2.1218	.04254	2.1144	.05165	61.890	.05018
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52473	.20754	.25456	.94582	58.055	.68629	-.00144
SDev	.00108	.00015	.00095	.00158	.102	.00030	.00034
%RSD	.20571	.07220	.37450	.16650	.17573	.04346	23.320
#1	.52550	.20764	.25388	.94693	58.128	.68608	-.00120
#2	.52397	.20743	.25523	.94470	57.983	.68650	-.00168
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51526	.02097	.02102	.02100	.10563	.10859	.10760
SDev	.01054	.00135	.00040	.00071	.00269	.00184	.00033
%RSD	2.0451	6.4166	1.8793	3.3878	2.5454	1.6921	.30685
#1	.52271	.02002	.02074	.02050	.10754	.10729	.10737
#2	.50781	.02192	.02130	.02151	.10373	.10989	.10784
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.01798	.00763	.01108	.05490	.51130	.54797	
SDev	.00018	.00123	.00088	.00366	.00397	.00287	
%RSD	1.0016	16.181	7.9781	6.6714	.77598	.52313	
#1	.01810	.00851	.01170	.05749	.51410	.55000	
#2	.01785	.00676	.01045	.05231	.50849	.54594	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14522	--	--	--	--	--	--
SDev	36.02723	--	--	--	--	--	--
%RSD	.2480868	--	--	--	--	--	--
#1	14497	--	--	--	--	--	--
#2	14548	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FHF Operator: RJG
 Run Time: 10/27/00 19:25:01
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00034	.03944	-.00045	.04222	-.00019	6.4987	-.00019
SDev	.00039	.00030	.00198	.00024	.00008	.0061	.00010
%RSD	115.27	.75293	438.44	.57738	43.598	.09387	54.937
#1	.00006	.03923	-.00185	.04205	-.00013	6.5030	-.00026
#2	.00061	.03965	.00095	.04239	-.00024	6.4944	-.00011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01152	.00332	.00296	.05335	3.6702	.15144	-.00136
SDev	.00023	.00014	.00025	.00702	.0129	.00015	.00009
%RSD	1.9986	4.2690	8.5824	13.163	.35172	.09614	6.5970
#1	.01169	.00322	.00278	.05831	3.6610	.15154	-.00142
#2	.01136	.00342	.00314	.04838	3.6793	.15134	-.00129
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01488	-.00033	.00087	.00047	-.00118	-.00092	-.00100
SDev	.00092	.00008	.00080	.00051	.00013	.00189	.00130
%RSD	6.2115	23.044	92.293	108.78	11.077	205.48	129.74
#1	.01422	-.00039	.00143	.00083	-.00127	-.00226	-.00193
#2	.01553	-.00028	.00030	.00011	-.00108	.00042	-.00008
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00369	-.00279	-.00063	.00384	-.00092	.05064	
SDev	.00102	.00126	.00050	.00084	.00025	.00028	
%RSD	27.588	45.384	80.127	21.778	26.953	.55130	
#1	.00297	-.00189	-.00027	.00325	-.00074	.05083	
#2	.00441	-.00368	-.00099	.00443	-.00109	.05044	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14347	--	--	--	--	--	--
SDev	39.98744	--	--	--	--	--	--
%RSD	.2787246	--	--	--	--	--	--
#1	14375	--	--	--	--	--	--
#2	14318	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FNF Operator: RJG
 Run Time: 10/27/00 19:29:11
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00087	-.02571	-.00115	.07892	.00006	9.4547	.00002
SDev	.00007	.00421	.00018	.00012	.00018	.0216	.00008
%RSD	8.2639	16.378	15.913	.14569	271.44	.22817	404.30
#1	.00092	-.02274	-.00128	.07884	.00019	9.4394	-.00003
#2	.00082	-.02869	-.00102	.07900	-.00006	9.4699	.00007
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04843	.00753	.00270	.83293	5.3276	.58981	-.00069
SDev	.00039	.00052	.00006	.00553	.0213	.00135	.00075
%RSD	.79670	6.8842	2.2975	.66429	.40049	.22940	108.51
#1	.04816	.00790	.00275	.83684	5.3125	.58885	-.00122
#2	.04870	.00717	.00266	.82901	5.3426	.59077	-.00016
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.15229	-.00195	.00045	-.00035	-.00176	.00011	-.00052
SDev	.00214	.00075	.00143	.00071	.00066	.00182	.00143
%RSD	1.4022	38.582	320.16	200.25	37.718	1728.3	277.81
#1	.15380	-.00142	-.00057	-.00085	-.00129	.00139	.00050
#2	.15078	-.00249	.00146	.00015	-.00223	-.00118	-.00153
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00606	-.00531	-.00152	.00154	-.00067	.03343	
SDev	.00083	.00353	.00263	.00465	.00025	.00009	
%RSD	13.666	66.606	173.06	301.45	36.759	.27469	
#1	.00664	-.00281	.00034	-.00175	-.00084	.03337	
#2	.00547	-.00780	-.00338	.00483	-.00050	.03350	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14592	--	--	--	--	--	--
SDev	52.25547	--	--	--	--	--	--
%RSD	.3581177	--	--	--	--	--	--
#1	14629	--	--	--	--	--	--
#2	14555	--	--	--	--	--	--

Method: METTRA Sample Name: DM3FPF Operator: RJG
 Run Time: 10/27/00 19:33:20
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00014	-.04290	-.00094	.08390	.00064	14.966	-.00001
SDev	.00076	.00147	.00028	.00023	.00022	.000	.00010
%RSD	551.77	3.4355	29.289	.28014	34.877	.00226	1527.8
#1	-.00040	-.04186	-.00113	.08407	.00080	14.966	.00006
#2	.00067	-.04394	-.00074	.08374	.00048	14.966	-.00008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03034	.00114	.00058	.23268	3.7344	.35955	-.00146
SDev	.00020	.00024	.00047	.00021	.0145	.00064	.00039
%RSD	.66678	21.074	80.163	.09182	.38723	.17782	26.541
#1	.03048	.00097	.00025	.23283	3.7242	.35910	-.00119
#2	.03020	.00131	.00092	.23253	3.7447	.36000	-.00174
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01256	-.00218	.00023	-.00057	-.00038	.00061	.00028
SDev	.00026	.00274	.00148	.00008	.00102	.00177	.00084
%RSD	2.0549	125.95	633.23	13.751	266.29	288.58	298.69
#1	.01238	-.00411	.00128	-.00051	.00034	-.00064	-.00031
#2	.01275	-.00024	-.00082	-.00062	-.00110	.00186	.00088
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00672	-.00306	.00020	.00483	-.00191	.02930	
SDev	.00058	.00037	.00044	.00174	.00071	.00007	
%RSD	8.6567	12.088	224.84	36.119	36.985	.23112	
#1	.00713	-.00280	.00051	.00606	-.00241	.02925	
#2	.00631	-.00332	-.00012	.00359	-.00141	.02934	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15097	--	--	--	--	--	--
SDev	77.60497	--	--	--	--	--	--
%RSD	.5140517	--	--	--	--	--	--
#1	15152	--	--	--	--	--	--
#2	15042	--	--	--	--	--	--

Method: METTRA Sample Name: DNPLAB Operator: RJG
 Run Time: 10/27/00 19:37:30
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00090	-.00782	-.00147	-.00009	-.00060	.05408	.00025
SDev	.00032	.00643	.00024	.00007	.00007	.00045	.00007
%RSD	35.970	82.253	16.525	78.455	11.521	.82636	29.073
#1	.00113	-.00327	-.00164	-.00004	-.00064	.05376	.00030
#2	.00067	-.01237	-.00130	-.00015	-.00055	.05440	.00020
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.00067	.00171	.02048	.00328	.00086	-.00065
SDev	.00041	.00010	.00005	.00219	.00116	.00004	.00050
%RSD	609.18	15.379	3.1562	10.711	35.391	4.5030	76.777
#1	.00035	.00075	.00167	.01893	.00246	.00083	-.00100
#2	-.00022	.00060	.00175	.02203	.00410	.00089	-.00030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00043	.00244	-.00084	.00025	-.00059	.00198	.00112
SDev	.00011	.00177	.00076	.00110	.00080	.00066	.00071
%RSD	24.974	72.288	90.050	435.51	135.27	33.461	63.030
#1	-.00035	.00119	-.00138	-.00052	-.00116	.00151	.00062
#2	-.00050	.00369	-.00031	.00103	-.00003	.00245	.00162
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00317	.00010	-.00099	-.00399	-.00215	.00209	
SDev	.00213	.00156	.00175	.00365	.00000	.00012	
%RSD	67.293	1508.0	177.54	91.537	.03476	5.7121	
#1	-.00468	-.00100	-.00222	-.00657	-.00215	.00201	
#2	-.00166	.00121	.00025	-.00141	-.00215	.00218	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14046	--	--	--	--	--	--
SDev	76.26188	--	--	--	--	--	--
%RSD	.5429466	--	--	--	--	--	--
#1	13992	--	--	--	--	--	--
#2	14100	--	--	--	--	--	--

Method: METTRA Sample Name: DNPLAC Operator: RJG
 Run Time: 10/27/00 19:41:39
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.60541	49.024	.67232	.80976	.46291	56.535	.57243
SDev	.00358	.142	.00405	.00829	.00411	.480	.00495
%RSD	.59075	.28930	.60316	1.0233	.88676	.84848	.86520
#1	.60794	49.124	.67518	.81562	.46581	56.874	.57593
#2	.60289	48.923	.66945	.80390	.46001	56.195	.56893
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High			.85500				
Low			.50500				
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.57279	.44498	.59118	76.226	15.217	2.0564	.47256
SDev	.00145	.00260	.00365	.262	.068	.0108	.00252
%RSD	.25370	.58315	.61798	.34386	.44900	.52647	.53252
#1	.57382	.44682	.59377	76.411	15.265	2.0641	.47434
#2	.57177	.44315	.58860	76.040	15.169	2.0488	.47078
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.78258	.69030	.67834	.68232	.39078	.39708	.39499
SDev	.00900	.00271	.00133	.00179	.00080	.00045	.00003
%RSD	1.1502	.39257	.19598	.26221	.20506	.11357	.00859
#1	.78894	.69221	.67928	.68359	.39022	.39740	.39501
#2	.77621	.68838	.67740	.68106	.39135	.39676	.39496
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High				.85000			.59500
Low				.52500			.09400
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.45905	.47011	.46643	.71388	.42839	.34709	
SDev	.00064	.00281	.00209	.00647	.00605	.00306	
%RSD	.13825	.59867	.44778	.90590	1.4128	.88090	
#1	.45860	.46812	.46495	.71845	.43267	.34925	
#2	.45949	.47210	.46791	.70931	.42411	.34493	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	
High			.55000	.99500			
Low			.32450	.39800			

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14454	--	--	--	--	--	--
SDev	28.42583	--	--	--	--	--	--
%RSD	.1966607	--	--	--	--	--	--
#1	14434	--	--	--	--	--	--
#2	14474	--	--	--	--	--	--

Method: METTRA Sample Name: DNNGD Operator: RJG
 Run Time: 10/27/00 19:45:49
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00013	57.453	.02918	.57185	.00298	4.2072	.00182
SDev	.00008	.338	.00025	.00114	.00012	.0063	.00024
%RSD	63.003	.58839	.85097	.19883	3.8561	.15011	12.967
#1	-.00019	57.214	.02900	.57104	.00306	4.2027	.00165
#2	-.00007	57.692	.02936	.57265	.00289	4.2117	.00198
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04351	.06924	.12088	113.14	15.074	3.2069	.00044
SDev	.00070	.00037	.00079	.49	.037	.0089	.00064
%RSD	1.6117	.53586	.64997	.43393	.24704	.27909	145.97
#1	.04302	.06950	.12033	112.79	15.048	3.2006	-.00001
#2	.04401	.06898	.12144	113.49	15.100	3.2132	.00090
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10613	.06343	.06456	.06419	-.00259	.00511	.00255
SDev	.00148	.00078	.00083	.00029	.00312	.00053	.00068
%RSD	1.3952	1.2316	1.2811	.45427	120.30	10.392	26.885
#1	.10508	.06287	.06515	.06439	-.00039	.00474	.00303
#2	.10717	.06398	.06398	.06398	-.00480	.00549	.00206
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00183	.00058	-.00022	-.00761	.09021	.36264	
SDev	.00377	.00048	.00094	.00289	.00040	.00002	
%RSD	206.81	82.291	428.24	37.937	.43850	.00519	
#1	.00084	.00024	.00044	-.00965	.08993	.36263	
#2	-.00449	.00092	-.00088	-.00557	.09049	.36266	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14926	--	--	--	--	--	--
SDev	2.863644	--	--	--	--	--	--
%RSD	.0191856	--	--	--	--	--	--
#1	14924	--	--	--	--	--	--
#2	14928	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-6 Operator: RJG
 Run Time: 10/27/00 19:49:58
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0650	25.203	.53007	2.0755	2.0684	51.444	.50628
SDev	.0003	.121	.00372	.0016	.0031	.011	.00090
%RSD	.02479	.48125	.70147	.07552	.14761	.02141	.17745
#1	1.0652	25.118	.53270	2.0744	2.0705	51.452	.50691
#2	1.0648	25.289	.52744	2.0766	2.0662	51.436	.50564
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0679	2.0617	2.0367	25.599	50.395	2.0473	2.0769
SDev	.0021	.0035	.0028	.061	.034	.0018	.0097
%RSD	.10011	.17020	.13671	.23780	.06744	.08731	.46550
#1	2.0665	2.0592	2.0347	25.556	50.371	2.0460	2.0701
#2	2.0694	2.0642	2.0387	25.642	50.419	2.0485	2.0838
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0586	.52057	.51462	.51661	.52496	.53035	.52856
SDev	.0116	.00058	.00246	.00145	.00010	.00104	.00073
%RSD	.56347	.11221	.47803	.27997	.01962	.19661	.13808
#1	2.0668	.52016	.51636	.51763	.52503	.53109	.52907
#2	2.0504	.52099	.51289	.51558	.52488	.52962	.52804
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.52760	.53182	.53042	1.0573	2.0578	2.0986	
SDev	.00064	.00187	.00146	.0004	.0034	.0008	
%RSD	.12094	.35257	.27584	.04119	.16490	.03708	
#1	.52715	.53050	.52938	1.0576	2.0602	2.0992	
#2	.52805	.53315	.53145	1.0570	2.0554	2.0981	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13917	--	--	--	--	--	--
SDev	14.49569	--	--	--	--	--	--
%RSD	.1041570	--	--	--	--	--	--
#1	13907	--	--	--	--	--	--
#2	13927	--	--	--	--	--	--

Method: METTRA Sample Name: CCB6

Operator: RJG

Run Time: 10/27/00 19:54:08

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00031	-.00943	-.00145	.00041	.00010	.00949	.00002
SDev	.00004	.01233	.00015	.00008	.00007	.00026	.00016
%RSD	13.207	130.76	10.115	18.555	67.305	2.7237	875.34
#1	.00034	-.00071	-.00155	.00036	.00005	.00967	.00013
#2	.00028	-.01814	-.00135	.00046	.00015	.00931	-.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	.00027	.00107	.01883	.00571	.00061	.00272
SDev	.00022	.00011	.00023	.00003	.00311	.00009	.00129
%RSD	81.621	40.343	21.850	.14405	54.391	14.292	47.322
#1	.00042	.00019	.00091	.01881	.00791	.00055	.00364
#2	.00011	.00034	.00124	.01885	.00352	.00067	.00181
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00023	-.00127	.00081	.00012	-.00068	-.00039	-.00049
SDev	.00138	.00266	.00003	.00090	.00044	.00130	.00072
%RSD	599.77	210.50	3.2356	749.08	64.429	332.27	147.79
#1	.00075	.00062	.00083	.00076	-.00037	-.00131	-.00100
#2	-.00121	-.00315	.00079	-.00052	-.00099	.00053	.00002
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00270	-.00270	-.00270	-.00061	-.00003	.00074	
SDev	.00170	.00449	.00356	.00314	.00301	.00001	
%RSD	62.948	165.93	131.70	513.31	10773.	.92319	
#1	-.00150	.00047	-.00019	-.00283	.00210	.00074	
#2	-.00390	-.00587	L-.00522	.00161	-.00215	.00075	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14227	--	--	--	--	--	--
SDev	50.66448	--	--	--	--	--	--
%RSD	.3561119	--	--	--	--	--	--
#1	14191	--	--	--	--	--	--
#2	14263	--	--	--	--	--	--

Method: METTRA Sample Name: DNNGDP5 Operator: RJG
 Run Time: 10/27/00 19:58:18
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	11.848	.00568	.12246	.00031	.90054	.00037
SDev	.00055	.005	.00019	.00069	.00005	.00003	.00019
%RSD	269.02	.03844	3.2981	.56335	14.708	.00275	50.395
#1	-.00018	11.851	.00581	.12294	.00028	.90056	.00051
#2	.00059	11.845	.00554	.12197	.00035	.90052	.00024
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00934	.01485	.02599	24.059	3.1738	.68218	.00014
SDev	.00010	.00028	.00030	.054	.0156	.00341	.00011
%RSD	1.0674	1.8499	1.1737	.22642	.49300	.49991	82.906
#1	.00941	.01466	.02578	24.097	3.1848	.68459	.00022
#2	.00927	.01505	.02621	24.020	3.1627	.67977	.00006
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02212	.01123	.01414	.01317	-.00051	.00078	.00035
SDev	.00049	.00369	.00110	.00049	.00176	.00148	.00158
%RSD	2.1978	32.843	7.8013	3.7378	348.85	190.37	448.94
#1	.02247	.00862	.01492	.01282	.00074	.00183	.00147
#2	.02178	.01383	.01336	.01352	-.00175	-.00027	-.00076
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00376	.00073	-.00077	-.00272	.01786	.07817	
SDev	.00208	.00141	.00025	.00269	.00011	.00033	
%RSD	55.255	193.86	32.173	98.865	.62572	.42269	
#1	-.00522	.00172	-.00059	-.00082	.01794	.07840	
#2	-.00229	-.00027	-.00094	-.00462	.01778	.07793	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14055	--	--	--	--	--	--
SDev	110.8742	--	--	--	--	--	--
%RSD	.7888707	--	--	--	--	--	--
#1	13976	--	--	--	--	--	--
#2	14133	--	--	--	--	--	--

Method: METTRA Sample Name: DNNGDY Operator: RJG
 Run Time: 10/27/00 20:02:27
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00031	50.754	.03082	.53350	.00298	4.3276	.00369
SDev	.00007	.031	.00073	.00164	.00004	.0170	.00017
%RSD	23.382	.06204	2.3542	.30662	1.2635	.39367	4.7565
#1	-.00036	50.731	.03133	.53465	.00301	4.3397	.00381
#2	-.00026	50.776	.03031	.53234	.00296	4.3156	.00357
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04096	.06472	.11784	116.44	14.071	3.4419	.00141
SDev	.00026	.00029	.00007	.00	.019	.0024	.00025
%RSD	.62512	.44248	.06272	.00229	.13821	.06939	17.521
#1	.04114	.06492	.11789	116.44	14.085	3.4436	.00158
#2	.04077	.06451	.11779	116.44	14.058	3.4402	.00123
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10447	.06731	.06915	.06854	.00036	.00022	.00026
SDev	.00246	.00225	.00014	.00066	.00126	.00230	.00196
%RSD	2.3561	3.3385	.19792	.95857	348.08	1070.7	740.67
#1	.10621	.06572	.06925	.06808	-.00053	-.00141	-.00112
#2	.10273	.06890	.06906	.06900	.00125	.00184	.00165
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00181	.00296	.00137	-.00501	.08510	.36893	
SDev	.00393	.00303	.00071	.00157	.00005	.00093	
%RSD	217.90	102.63	52.086	31.321	.06004	.25076	
#1	.00098	.00081	.00087	-.00390	.08514	.36958	
#2	-.00459	.00510	.00188	-.00612	.08506	.36827	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14926	--	--	--	--	--	--
SDev	16.33458	--	--	--	--	--	--
%RSD	.1094382	--	--	--	--	--	--
#1	14914	--	--	--	--	--	--
#2	14937	--	--	--	--	--	--

Method: METTRA Sample Name: DNNGDS Operator: RJG
 Run Time: 10/27/00 20:06:37
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04857	46.914	.06315	2.3241	.04956	3.6655	.04890
SDev	.00020	.028	.00004	.0104	.00024	.0095	.00045
%RSD	.41078	.05929	.06378	.44606	.49387	.25899	.92618
#1	.04871	46.894	.06312	2.3315	.04973	3.6722	.04858
#2	.04843	46.934	.06318	2.3168	.04938	3.6588	.04922
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51957	.25085	.34698	99.625	13.167	2.7174	.00022
SDev	.00055	.00026	.00066	.100	.007	.0007	.00040
%RSD	.10669	.10531	.19062	.10017	.05073	.02744	183.85
#1	.51918	.25103	.34745	99.554	13.171	2.7179	.00051
#2	.51997	.25066	.34651	99.695	13.162	2.7168	-.00007
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.56900	.07157	.07244	.07215	-.00038	.00226	.00138
SDev	.00585	.00057	.00033	.00003	.00063	.00022	.00006
%RSD	1.0281	.79824	.45934	.04395	167.51	9.8596	4.4141
#1	.57314	.07197	.07220	.07213	-.00082	.00242	.00134
#2	.56486	.07116	.07267	.07217	.00007	.00210	.00142
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00364	.01310	.00995	.04185	.54494	.78895	
SDev	.00240	.00005	.00083	.00105	.00156	.00160	
%RSD	65.950	.36787	8.3583	2.5141	.28556	.20225	
#1	.00534	.01313	.01054	.04111	.54604	.79008	
#2	.00194	.01306	.00936	.04260	.54384	.78783	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14665	--	--	--	--	--	--
SDev	23.86485	--	--	--	--	--	--
%RSD	.1627320	--	--	--	--	--	--
#1	14682	--	--	--	--	--	--
#2	14648	--	--	--	--	--	--

Method: METTRA Sample Name: DNNGF Operator: RJG
 Run Time: 10/27/00 20:10:46
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	60.129	.02957	.44486	.00313	11.498	.00094
SDev	.00078	.138	.00047	.00408	.00016	.075	.00025
%RSD	1008.5	.22913	1.6021	.91655	5.0785	.65343	26.782
#1	-.00047	60.226	.02990	.44775	.00325	11.552	.00076
#2	.00063	60.032	.02923	.44198	.00302	11.445	.00111
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04229	.06784	.09263	108.51	14.777	3.6231	-.00097
SDev	.00021	.00048	.00048	.13	.070	.0092	.00094
%RSD	.50802	.70552	.51838	.12087	.47658	.25485	96.462
#1	.04214	.06750	.09297	108.60	14.827	3.6296	-.00031
#2	.04245	.06818	.09229	108.42	14.727	3.6166	-.00164
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09911	.07004	.06990	.06995	.00038	.00254	.00182
SDev	.00085	.00191	.00345	.00294	.00119	.00059	.00000
%RSD	.85296	2.7293	4.9323	4.1977	314.63	23.105	.17439
#1	.09971	.06869	.06746	.06787	-.00046	.00296	.00182
#2	.09852	.07140	.07233	.07202	.00122	.00213	.00182
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00053	.00337	.00207	-.00511	.09395	.40319	
SDev	.00277	.00115	.00169	.00046	.00002	.00284	
%RSD	522.57	34.050	81.596	8.9396	.01940	.70470	
#1	.00143	.00418	.00326	-.00478	.09397	.40520	
#2	-.00249	.00256	.00087	-.00543	.09394	.40118	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15198	--	--	--	--	--	--
SDev	67.03359	--	--	--	--	--	--
%RSD	.4410714	--	--	--	--	--	--
#1	15245	--	--	--	--	--	--
#2	15150	--	--	--	--	--	--

Method: METTRA Sample Name: CRI-4 Operator: RJG
 Run Time: 10/27/00 20:14:56
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02228	.40827	.02142	.41539	.00970	10.246	.01047
SDev	.00048	.01386	.00002	.00852	.00007	.213	.00035
%RSD	2.1420	3.3956	.07342	2.0504	.76089	2.0819	3.3491
#1	.02261	.41807	.02141	.42141	.00976	10.397	.01072
#2	.02194	.39847	.02143	.40936	.00965	10.095	.01023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.03000	.60000	.03000	.60000	.01500	15.000	.01500
Low	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10594	.02130	.05066	.24031	9.8877	.03223	-.00123
SDev	.00146	.00034	.00061	.01898	.1794	.00003	.00072
%RSD	1.3774	1.5962	1.2101	7.8996	1.8145	.07758	58.307
#1	.10697	.02154	.05109	.22689	10.015	.03225	-.00072
#2	.10491	.02106	.05022	.25374	9.7608	.03221	-.00174
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.15000	.03000	.07500	.30000	15.000	.04500	
Low	.05000	.01000	.02500	.10000	5.0000	.01500	
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08411	.00663	.00725	.00705	.12504	.12790	.12695
SDev	.00107	.00075	.00324	.00241	.00207	.00301	.00270
%RSD	1.2675	11.292	44.680	34.215	1.6555	2.3534	2.1245
#1	.08486	.00716	.00955	.00875	.12650	.13003	.12886
#2	.08335	.00610	.00496	.00534	.12357	.12577	.12504
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.12000			.00900			.18000
Low	.04000			.00300			.06000
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00684	.01224	.01044	.02286	.10320	.04347	
SDev	.00186	.00084	.00006	.00088	.00194	.00110	
%RSD	27.197	6.8914	.54521	3.8293	1.8757	2.5257	
#1	.00552	.01283	.01040	.02224	.10457	.04425	
#2	.00816	.01164	.01048	.02348	.10183	.04269	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.01500	.03000	.15000	.06000	
Low			.00500	.01000	.05000	.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13952	--	--	--	--	--	--
SDev	189.8229	--	--	--	--	--	--
%RSD	1.360526	--	--	--	--	--	--
#1	13818	--	--	--	--	--	--
#2	14086	--	--	--	--	--	--

Method: METTRA Sample Name: ICSA 0057-115-1 Operator: RJG
 Run Time: 10/27/00 20:19:06
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00087	543.46	.00218	.00175	-.00177	491.57	.00089
SDev	.00014	.57	.00217	.00010	.00016	2.09	.00005
%RSD	16.284	.10522	99.838	5.7322	8.9412	.42528	5.5549
#1	.00097	543.05	.00064	.00182	-.00166	493.05	.00085
#2	.00077	543.86	.00371	.00167	-.00188	490.09	.00092
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.00				500.00	
Range		20.000				20.000	
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00075	.00159	.00043	207.66	541.30	.00865	-.00343
SDev	.00045	.00034	.00075	.22	.70	.00012	.00168
%RSD	60.122	21.145	171.67	.10830	.12900	1.3837	49.059
#1	.00107	.00183	-.00009	207.50	541.79	.00873	-.00224
#2	.00043	.00136	.00096	207.82	540.81	.00856	-.00462
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value				200.00	500.00		
Range				20.000	20.000		
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	-.03339	.01387	-.00187	-.00446	.00528	.00203
SDev	.00164	.00233	.00557	.00294	.00487	.00198	.00030
%RSD	1106.4	6.9924	40.164	157.21	109.17	37.557	14.776
#1	.00131	-.03174	.00993	-.00395	-.00791	.00668	.00182
#2	-.00101	-.03504	.01781	.00021	-.00102	.00388	.00225
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00064	-.00125	-.00062	-.01121	.00732	.00518	
SDev	.00876	.00745	.00205	.00505	.00146	.00031	
%RSD	1370.0	596.78	330.97	45.062	19.998	5.9742	
#1	.00684	-.00652	-.00207	-.00764	.00835	.00540	
#2	-.00556	.00402	.00083	-.01478	.00628	.00496	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	
Value							
Range							

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12859	--	--	--	--	--	--
SDev	25.06638	--	--	--	--	--	--
%RSD	.1949315	--	--	--	--	--	--
#1	12841	--	--	--	--	--	--
#2	12877	--	--	--	--	--	--

Method: METTRA Sample Name: ICSAB 0057-104-1 Operator: RJG
 Run Time: 10/27/00 20:23:16
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22032	520.06	.10436	.51777	.49046	472.25	.91417
SDev	.00028	2.34	.00131	.00040	.00099	1.34	.00181
%RSD	.12712	.44916	1.2576	.07693	.20153	.28424	.19835
#1	.22013	518.41	.10529	.51805	.49116	473.19	.91545
#2	.22052	521.72	.10343	.51749	.48976	471.30	.91289
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	500.00	.10000	.50000	.50000	500.00	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48302	.49700	.53723	199.39	518.22	.50365	-.00324
SDev	.00020	.00020	.00229	.28	.68	.00056	.00477
%RSD	.04180	.04113	.42669	.14050	.13131	.11083	147.08
#1	.48316	.49715	.53560	199.19	517.74	.50325	.00013
#2	.48288	.49686	.53885	199.59	518.70	.50404	-.00661
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.50000	.50000	.50000	200.00	500.00	.50000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96305	.01487	.06204	.04633	.62580	.63605	.63264
SDev	.00535	.00501	.00442	.00128	.02059	.01220	.00128
%RSD	.55553	33.681	7.1204	2.7610	3.2895	1.9186	.20301
#1	.96684	.01841	.05892	.04543	.61124	.64468	.63354
#2	.95927	.01133	.06516	.04724	.64036	.62742	.63173
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	1.0000			.05000			.60000
Range	20.000			20.000			20.000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.04866	.05116	.05032	.10010	.51522	1.0374	
SDev	.01307	.00845	.00128	.00532	.00523	.0023	
%RSD	26.869	16.515	2.5469	5.3187	1.0151	.22033	
#1	.05790	.04518	.04942	.10386	.51892	1.0391	
#2	.03941	.05713	.05123	.09633	.51152	1.0358	
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	
Value			.05000	.10000	.50000	1.0000	
Range			20.000	20.000	20.000	20.000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13366	--	--	--	--	--	--
SDev	.1063422	--	--	--	--	--	--
%RSD	.0007956	--	--	--	--	--	--
#1	13366	--	--	--	--	--	--
#2	13366	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-7 Operator: RJG
 Run Time: 10/27/00 20:27:26
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0575	25.270	.51761	2.0570	2.0491	51.105	.49790
SDev	.0048	.284	.00180	.0148	.0149	.039	.00299
%RSD	.45846	1.1254	.34876	.72043	.72848	.07590	.59970
#1	1.0610	25.069	.51888	2.0675	2.0596	51.133	.50002
#2	1.0541	25.471	.51633	2.0466	2.0385	51.078	.49579
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0470	2.0436	2.0245	25.448	50.045	2.0288	2.0648
SDev	.0097	.0099	.0093	.048	.071	.0095	.0050
%RSD	.47205	.48678	.45732	.18853	.14113	.46747	.24007
#1	2.0538	2.0507	2.0310	25.414	49.995	2.0355	2.0683
#2	2.0402	2.0366	2.0179	25.481	50.095	2.0221	2.0613
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0292	.51539	.50689	.50972	.51913	.52635	.52395
SDev	.0203	.00369	.00016	.00133	.00067	.00324	.00239
%RSD	.99870	.71583	.03073	.26140	.12949	.61624	.45565
#1	2.0435	.51278	.50678	.50878	.51865	.52406	.52226
#2	2.0149	.51799	.50700	.51066	.51960	.52865	.52564
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.52142	.52489	.52374	1.0395	2.0370	2.0663	
SDev	.00827	.00106	.00346	.0008	.0167	.0136	
%RSD	1.5854	.20158	.66035	.07966	.81882	.65652	
#1	.51558	.52415	.52129	1.0390	2.0488	2.0759	
#2	.52727	.52564	.52618	1.0401	2.0252	2.0567	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13951	--	--	--	--	--	--
SDev	6.116750	--	--	--	--	--	--
%RSD	.0438437	--	--	--	--	--	--
#1	13947	--	--	--	--	--	--
#2	13956	--	--	--	--	--	--

Method: METTRA Sample Name: CCB7 Operator: RJG
 Run Time: 10/27/00 20:31:35
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00131	.07355	.00014	.00056	.00053	.13201	.00034
SDev	.00018	.13688	.00052	.00045	.00032	.13544	.00035
%RSD	13.888	186.10	370.88	80.469	60.327	102.60	101.93
#1	.00118	-.02324	.00050	.00024	.00031	.03624	.00010
#2	.00144	.17034	-.00023	.00088	.00076	.22778	.00059
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00078	.00074	.00181	.08293	.12733	.00071	.00346
SDev	.00055	.00051	.00068	.05820	.12820	.00049	.00086
%RSD	69.846	69.477	37.561	70.172	100.69	68.414	24.929
#1	.00039	.00038	.00133	.04178	.03668	.00037	.00407
#2	.00117	.00110	.00229	H.12408	.21798	.00105	.00285
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00025	.00157	-.00019	.00040	-.00049	.00028	.00002
SDev	.00079	.00059	.00002	.00019	.00128	.00166	.00068
%RSD	316.09	37.431	8.4341	46.540	260.16	592.35	2945.5
#1	-.00081	.00116	-.00018	.00027	-.00140	.00146	.00051
#2	.00031	.00199	-.00020	.00053	.00041	-.00090	-.00046
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00165	.00063	-.00013	.00006	.00050	.00102	
SDev	.00123	.00059	.00002	.00052	.00374	.00049	
%RSD	74.667	93.180	15.097	930.42	753.12	47.506	
#1	-.00078	.00021	-.00012	-.00031	-.00215	.00068	
#2	-.00252	.00104	-.00014	.00042	.00314	.00137	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

	1	2	3	4	5	6	7
IntStd	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Mode	Y	--	--	--	--	--	--
Elem	371.030	--	--	--	--	--	--
Wavlen	14430	--	--	--	--	--	--
Avge	114.3041	--	--	--	--	--	--
SDev	.7921075	--	--	--	--	--	--
%RSD							
#1	14511	--	--	--	--	--	--
#2	14350	--	--	--	--	--	--

Method: METTRA Sample Name: DND69B Operator: RJG
 Run Time: 10/27/00 20:38:07
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00098	-.00367	-.00076	.00004	-.00045	.04718	.00016
SDev	.00021	.01646	.00313	.00003	.00011	.00237	.00005
%RSD	21.113	447.99	413.52	61.637	24.818	5.0297	31.558
#1	.00113	.00796	-.00297	.00006	-.00052	.04550	.00013
#2	.00084	-.01531	.00146	.00003	-.00037	.04885	.00020
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	.00055	.00167	.03201	.01165	.00011	-.00057
SDev	.00009	.00020	.00003	.00973	.00188	.00001	.00092
%RSD	24.265	36.381	2.0626	30.394	16.151	5.3036	161.87
#1	.00029	.00041	.00170	.03889	.01032	.00011	-.00123
#2	.00041	.00069	.00165	.02513	.01298	.00010	.00008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00035	.00340	-.00059	.00074	.00038	.00217	.00158
SDev	.00021	.00050	.00118	.00062	.00055	.00125	.00065
%RSD	60.964	14.802	200.34	83.097	141.87	57.527	41.367
#1	-.00020	.00305	.00024	.00118	.00077	.00129	.00112
#2	-.00050	.00376	-.00142	.00031	-.00000	.00306	.00204
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00645	.00451	.00086	-.00315	-.00215	.00183	
SDev	.00004	.00205	.00138	.00253	.00000	.00008	
%RSD	.62699	45.449	160.10	80.424	.15445	4.2568	
#1	-.00642	.00596	.00184	-.00136	-.00215	.00177	
#2	-.00648	.00306	-.00011	-.00494	-.00215	.00188	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13949	--	--	--	--	--	--
SDev	113.7378	--	--	--	--	--	--
%RSD	.8153967	--	--	--	--	--	--
#1	13868	--	--	--	--	--	--
#2	14029	--	--	--	--	--	--

Method: METTRA Sample Name: DND69C Operator: RJG
 Run Time: 10/27/00 20:42:17
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.58612	27.812	.64071	.61835	.44105	53.070	.55113
SDev	.00117	.064	.00241	.00011	.00091	.092	.00043
%RSD	.20005	.22869	.37628	.01769	.20672	.17287	.07853
#1	.58695	27.767	.64241	.61827	.44169	53.135	.55144
#2	.58529	27.857	.63900	.61842	.44040	53.005	.55082
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High			.85500				
Low			.50500				
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54566	.40154	.55060	47.933	12.083	1.4614	.45055
SDev	.00059	.00066	.00038	.077	.006	.0002	.00030
%RSD	.10869	.16329	.06857	.16014	.04914	.01182	.06688
#1	.54608	.40200	.55086	47.879	12.088	1.4615	.45033
#2	.54524	.40108	.55033	47.987	12.079	1.4613	.45076
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.75024	.68420	.67124	.67555	.25769	.26700	.26390
SDev	.00227	.00500	.00790	.00694	.00154	.00130	.00138
%RSD	.30266	.73101	1.1775	1.0269	.59759	.48639	.52254
#1	.75185	.68773	.67683	.68046	.25878	.26792	.26487
#2	.74864	.68066	.66565	.67065	.25660	.26608	.26292
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High				.85000			.59500
Low				.52500			.09400
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.44263	.45010	.44761	.68652	.34267	.27220	
SDev	.00092	.00090	.00029	.00268	.00104	.00121	
%RSD	.20819	.19988	.06551	.38978	.30328	.44600	
#1	.44198	.45074	.44782	.68842	.34340	.27305	
#2	.44328	.44947	.44741	.68463	.34193	.27134	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	
High			.55000	.99500			
Low			.32450	.39800			

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14670	--	--	--	--	--	--
SDev	90.89913	--	--	--	--	--	--
%RSD	.6196228	--	--	--	--	--	--
#1	14606	--	--	--	--	--	--
#2	14734	--	--	--	--	--	--

Method: METTRA Sample Name: DM7NA Operator: RJG
 Run Time: 10/27/00 20:46:26
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00164	14.410	.19444	.11455	.00108	3.0741	.00233
SDev	.00060	.046	.00184	.00030	.00005	.0034	.00017
%RSD	36.398	.31704	.94349	.25968	4.3968	.11133	7.4433
#1	.00122	14.378	.19574	.11476	.00112	3.0765	.00221
#2	.00206	14.442	.19315	.11434	.00105	3.0716	.00246
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00958	.83009	.12600	16.928	2.4882	.08193	.00325
SDev	.00011	.00213	.00024	.002	.0093	.00019	.00009
%RSD	1.1185	.25602	.18745	.01333	.37347	.23567	2.6569
#1	.00951	.82859	.12583	16.926	2.4816	.08179	.00332
#2	.00966	.83159	.12616	16.930	2.4948	.08207	.00319
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02091	.06189	.06273	.06245	-.00166	.00098	.00010
SDev	.00126	.00159	.00286	.00138	.00217	.00155	.00032
%RSD	6.0128	2.5761	4.5662	2.2093	130.67	159.06	315.44
#1	.02002	.06076	.06476	.06343	-.00013	-.00012	-.00012
#2	.02180	.06301	.06071	.06147	-.00319	.00208	.00032
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00478	.00352	.00076	.00126	.03267	.20388	
SDev	.00086	.00086	.00086	.00002	.00001	.00055	
%RSD	18.098	24.543	114.08	1.6962	.03462	.26875	
#1	-.00539	.00291	.00015	.00127	.03268	.20427	
#2	-.00417	.00413	.00137	.00124	.03267	.20349	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14368	--	--	--	--	--	--
SDev	5.974500	--	--	--	--	--	--
%RSD	.0415825	--	--	--	--	--	--
#1	14364	--	--	--	--	--	--
#2	14372	--	--	--	--	--	--

Method: METTRA Sample Name: DM7NAP5 Operator: RJG
 Run Time: 10/27/00 20:50:36
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00056	2.7131	.03909	.02231	.00051	.60139	.00032
SDev	.00005	.0234	.00050	.00004	.00036	.00473	.00001
%RSD	9.0237	.86398	1.2860	.19692	71.923	.78708	2.4800
#1	.00053	2.6965	.03944	.02228	.00076	.59805	.00032
#2	.00060	2.7297	.03873	.02234	.00025	.60474	.00033
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00196	.16207	.02451	3.3050	.48296	.01596	-.00027
SDev	.00011	.00039	.00022	.0038	.00194	.00006	.00057
%RSD	5.4565	.23859	.88816	.11442	.40087	.37355	210.31
#1	.00203	.16180	.02436	3.3023	.48159	.01592	-.00068
#2	.00188	.16235	.02467	3.3077	.48433	.01600	.00013
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00373	.01376	.01227	.01277	-.00249	.00099	-.00017
SDev	.00038	.00124	.00213	.00101	.00099	.00256	.00138
%RSD	10.281	9.0412	17.338	7.8685	39.628	259.92	797.39
#1	.00346	.01288	.01377	.01348	-.00179	-.00083	-.00115
#2	.00400	.01464	.01077	.01206	-.00319	.00280	.00080
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00195	.00187	.00060	-.00168	.00458	.04044	
SDev	.00096	.00166	.00143	.00174	.00023	.00001	
%RSD	49.474	88.798	239.65	103.48	5.1101	.01262	
#1	-.00263	.00069	-.00041	-.00291	.00474	.04044	
#2	-.00127	.00304	.00160	-.00045	.00441	.04043	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14797	--	--	--	--	--	--
SDev	13.82380	--	--	--	--	--	--
%RSD	.0934235	--	--	--	--	--	--
#1	14807	--	--	--	--	--	--
#2	14787	--	--	--	--	--	--

Method: METTRA Sample Name: DM7NAX Operator: RJG
 Run Time: 10/27/00 20:54:46
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00182	12.139	.18151	.09669	.00112	2.8706	.00197
SDev	.00006	.075	.00064	.00090	.00004	.0267	.00010
%RSD	3.3382	.61565	.35207	.93397	3.7324	.93026	5.2777
#1	.00186	12.191	.18196	.09733	.00115	2.8895	.00190
#2	.00178	12.086	.18106	.09606	.00109	2.8517	.00204
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00978	.79644	.11730	19.638	2.2003	.07672	.00124
SDev	.00019	.00613	.00049	.110	.0230	.00064	.00037
%RSD	1.9199	.76977	.41329	.56233	1.0433	.83881	29.662
#1	.00965	.80078	.11764	19.716	2.2166	.07718	.00150
#2	.00991	.79211	.11696	19.560	2.1841	.07627	.00098
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02143	.06247	.06123	.06165	-.00240	.00212	.00062
SDev	.00047	.00011	.00042	.00032	.00198	.00052	.00101
%RSD	2.2093	.17231	.68543	.51227	82.780	24.550	163.75
#1	.02177	.06240	.06094	.06142	-.00380	.00175	-.00010
#2	.02110	.06255	.06153	.06187	-.00099	.00249	.00133
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00275	.00498	.00241	-.00348	.03200	.21732	
SDev	.00343	.00172	.00229	.00118	.00001	.00199	
%RSD	124.84	34.514	95.142	34.009	.04397	.91591	
#1	-.00032	.00619	.00402	-.00432	.03201	.21872	
#2	-.00517	.00376	.00079	-.00265	.03199	.21591	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14562	--	--	--	--	--	--
SDev	116.9909	--	--	--	--	--	--
%RSD	.8034114	--	--	--	--	--	--
#1	14479	--	--	--	--	--	--
#2	14644	--	--	--	--	--	--

Method: METTRA Sample Name: DM7NAS Operator: RJG
 Run Time: 10/27/00 20:58:55
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05110	10.720	.22353	2.0189	.04835	50.697	.04921
SDev	.00019	.002	.00307	.0046	.00011	.124	.00023
%RSD	.36983	.01441	1.3716	.22709	.22917	.24528	.46522
#1	.05097	10.719	.22570	2.0222	.04843	50.784	.04937
#2	.05124	10.721	.22136	2.0157	.04827	50.609	.04905
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49234	1.1151	.36922	19.011	48.968	.55104	.00135
SDev	.00061	.0005	.00020	.016	.025	.00035	.00052
%RSD	.12373	.04269	.05413	.08606	.05114	.06335	38.285
#1	.49277	1.1155	.36936	19.022	48.986	.55128	.00171
#2	.49191	1.1148	.36908	18.999	48.950	.55079	.00098
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50040	.08427	.08131	.08230	.06256	.06485	.06408
SDev	.00116	.00088	.00090	.00089	.00262	.00037	.00112
%RSD	.23223	1.0405	1.1068	1.0842	4.1916	.57376	1.7498
#1	.50122	.08365	.08068	.08167	.06441	.06511	.06488
#2	.49958	.08489	.08195	.08293	.06071	.06458	.06329
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00767	.01296	.01120	.05063	.50646	.70342	
SDev	.00032	.00235	.00146	.00091	.00428	.00144	
%RSD	4.2039	18.171	13.066	1.7885	.84465	.20424	
#1	.00790	.01130	.01017	.04999	.50344	.70444	
#2	.00745	.01463	.01224	.05128	.50949	.70241	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14229	--	--	--	--	--	--
SDev	27.36517	--	--	--	--	--	--
%RSD	.1923211	--	--	--	--	--	--
#1	14210	--	--	--	--	--	--
#2	14248	--	--	--	--	--	--

Method: METTRA Sample Name: DND6EB Operator: RJG
 Run Time: 10/27/00 21:03:05
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	-.02578	-.00082	.00024	-.00024	.01553	-.00005
SDev	.00082	.01677	.00081	.00003	.00005	.00189	.00003
%RSD	324.53	65.049	99.534	13.486	22.418	12.163	54.689
#1	.00083	-.01392	-.00139	.00026	-.00020	.01419	-.00003
#2	-.00033	-.03764	-.00024	.00022	-.00027	.01686	-.00007
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00058	-.00021	.00111	.01120	.00267	.00006	-.00132
SDev	.00055	.00043	.00004	.00629	.00114	.00007	.00017
%RSD	94.726	204.02	3.9298	56.176	42.783	107.43	12.972
#1	.00096	.00009	.00108	.01565	.00348	.00011	-.00120
#2	.00019	-.00051	.00114	.00675	.00186	.00002	-.00144
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00142	-.00374	.00103	-.00055	-.00109	-.00113	-.00111
SDev	.00087	.00040	.00005	.00017	.00007	.00166	.00108
%RSD	61.317	10.746	4.6033	29.855	6.0322	147.16	97.218
#1	-.00080	-.00345	.00107	-.00044	-.00114	.00005	-.00035
#2	-.00203	-.00402	.00100	-.00067	-.00104	-.00230	-.00188
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00407	-.00243	-.00026	.00533	-.00007	.00437	
SDev	.00074	.00307	.00180	.00204	.00295	.00021	
%RSD	18.270	126.42	683.34	38.180	4085.5	4.7979	
#1	.00354	-.00026	.00101	.00389	.00201	.00452	
#2	.00460	-.00460	-.00153	.00677	-.00216	.00422	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14502	--	--	--	--	--	--
SDev	38.64297	--	--	--	--	--	--
%RSD	.2664578	--	--	--	--	--	--
#1	14475	--	--	--	--	--	--
#2	14530	--	--	--	--	--	--

Method: METTRA Sample Name: DND6EC Operator: RJG
 Run Time: 10/27/00 21:07:15
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04958	1.9166	1.9763	1.8822	.04827	46.945	.04507
SDev	.00052	.0127	.0153	.0111	.00013	.133	.00003
%RSD	1.0598	.66298	.77563	.59053	.26814	.28341	.05587
#1	.04921	1.9256	1.9872	1.8901	.04836	47.039	.04509
#2	.04995	1.9076	1.9655	1.8744	.04817	46.851	.04506
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47071	.18749	.23315	.82804	46.141	.46396	.93462
SDev	.00035	.00025	.00023	.00957	.123	.00049	.00358
%RSD	.07436	.13199	.09694	1.1556	.26619	.10636	.38320
#1	.47095	.18766	.23330	.83481	46.228	.46431	.93209
#2	.47046	.18731	.23299	.82127	46.054	.46361	.93716
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.46698	.47310	.46896	.47034	.47566	.49374	.48772
SDev	.00362	.00357	.00422	.00163	.00353	.00208	.00021
%RSD	.77497	.75451	.89990	.34576	.74245	.42105	.04318
#1	.46954	.47058	.47195	.47149	.47816	.49227	.48757
#2	.46442	.47562	.46598	.46919	.47317	.49521	.48787
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.0798	2.1125	2.1016	1.9979	.46605	.49710	
SDev	.0100	.0093	.0029	.0322	.00048	.00314	
%RSD	.48037	.44152	.13771	1.6138	.10290	.63194	
#1	2.0728	2.1191	2.1037	2.0207	.46639	.49932	
#2	2.0869	2.1059	2.0996	1.9751	.46571	.49488	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15280	--	--	--	--	--	--
SDev	22.45064	--	--	--	--	--	--
%RSD	.1469309	--	--	--	--	--	--
#1	15296	--	--	--	--	--	--
#2	15264	--	--	--	--	--	--

Note: digestate not brought up to final volume of 100ml. This was discovered upon closer inspection of digestate after analysis. PB 10/27/00.

Method: METTRA Sample Name: DND6EL Operator: RJG
 Run Time: 10/27/00 21:11:25
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	H.07096	H2.8282	H2.7857	H2.6762	H.06813	H66.677	H.06416
SDev	.00017	.0013	.0130	.0022	.00016	.182	.00045
%RSD	.23577	.04576	.46802	.08049	.23223	.27223	.69879
#1	H.07107	H2.8273	H2.7949	H2.6777	H.06825	H66.806	H.06448
#2	H.07084	H2.8291	H2.7765	H2.6747	H.06802	H66.549	H.06384
Errors	LC High	LC High	LC High	LC High	LC High	LC High	LC High
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	H.66651	H.26664	H.33669	H1.2101	H66.233	H.66071	H1.3371
SDev	.00098	.00022	.00007	.0027	.090	.00119	.0006
%RSD	.14777	.08428	.02047	.22434	.13626	.17940	.04803
#1	H.66721	H.26680	H.33664	H1.2120	H66.297	H.66155	H1.3375
#2	H.66582	H.26648	H.33674	H1.2081	H66.169	H.65987	H1.3366
Errors	LC High	LC High	LC High	LC High	LC High	LC High	LC High
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	H.66085	.67031	.66111	H.66418	.67651	.70009	H.69224
SDev	.00198	.00515	.00410	.00445	.00664	.00794	.00751
%RSD	.29945	.76824	.61966	.66959	.98166	1.1336	1.0842
#1	H.66224	.67395	.66401	H.66732	.68121	.70570	H.69755
#2	H.65945	.66667	.65822	H.66103	.67182	.69448	H.68693
Errors	LC High	NOCHECK	NOCHECK	LC High	NOCHECK	NOCHECK	LC High
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.9008	2.9524	H2.9352	H2.8358	H.66380	H.69973	
SDev	.0256	.0205	.0222	.0102	.00267	.00083	
%RSD	.88229	.69332	.75551	.35923	.40233	.11923	
#1	2.9189	2.9669	H2.9509	H2.8286	H.66569	H.70032	
#2	2.8827	2.9380	H2.9196	H2.8430	H.66191	H.69914	
Errors	NOCHECK	NOCHECK	LC High	LC High	LC High	LC High	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14473	--	--	--	--	--	--
SDev	58.05388	--	--	--	--	--	--
%RSD	.4011310	--	--	--	--	--	--
#1	14432	--	--	--	--	--	--
#2	14514	--	--	--	--	--	--

Method: METTRA Sample Name: DM7M6 Operator: RJG
 Run Time: 10/27/00 21:15:35
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00058	-.03760	.00060	.00070	-.00004	.21674	-.00004
SDev	.00048	.00870	.00060	.00009	.00017	.00206	.00001
%RSD	83.270	23.135	98.733	13.069	462.49	.95210	24.664
#1	.00024	-.04375	.00103	.00064	.00008	.21528	-.00003
#2	.00092	-.03145	.00018	.00077	-.00015	.21820	-.00005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00082	.00005	.00164	-.00804	.02144	.00047	.00126
SDev	.00079	.00004	.00019	.01376	.00165	.00012	.00005
%RSD	96.317	81.476	11.468	171.07	7.6927	25.553	3.7627
#1	.00026	.00002	.00150	-.01777	.02027	.00038	.00129
#2	.00138	.00008	.00177	.00169	.02260	.00055	.00122
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00169	-.00286	-.00058	-.00134	.00009	-.00151	-.00098
SDev	.00067	.00211	.00209	.00069	.00040	.00197	.00118
%RSD	39.512	73.830	362.33	51.770	426.01	130.19	120.62
#1	-.00216	-.00137	-.00206	-.00183	-.00019	-.00012	-.00014
#2	-.00122	-.00435	.00090	-.00085	.00038	-.00290	-.00181
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00400	-.00292	-.00061	.00662	.00229	.03849	
SDev	.00228	.00204	.00060	.00191	.00004	.00056	
%RSD	57.072	69.897	97.712	28.883	1.6397	1.4488	
#1	.00561	-.00436	-.00104	.00527	.00226	.03809	
#2	.00238	-.00147	-.00019	.00797	.00232	.03888	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14685	--	--	--	--	--	--
SDev	108.2930	--	--	--	--	--	--
%RSD	.7374181	--	--	--	--	--	--
#1	14762	--	--	--	--	--	--
#2	14609	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-8 Operator: RJG
 Run Time: 10/27/00 21:19:45
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0537	25.071	.51638	2.0434	2.0381	50.563	.49598
SDev	.0007	.130	.00129	.0048	.0021	.068	.00163
%RSD	.06776	.51714	.24969	.23726	.10311	.13377	.32868
#1	1.0542	24.980	.51729	2.0468	2.0396	50.611	.49713
#2	1.0532	25.163	.51546	2.0400	2.0366	50.516	.49482
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0386	2.0315	2.0170	25.220	49.636	2.0208	2.0527
SDev	.0075	.0041	.0025	.086	.072	.0048	.0138
%RSD	.36907	.20330	.12214	.34232	.14557	.23947	.67300
#1	2.0333	2.0286	2.0153	25.159	49.585	2.0174	2.0429
#2	2.0439	2.0345	2.0188	25.281	49.687	2.0243	2.0625
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0203	.51435	.50833	.51033	.51979	.52901	.52594
SDev	.0214	.00016	.00183	.00127	.00495	.00165	.00275
%RSD	1.0601	.03081	.36002	.24954	.95149	.31223	.52261
#1	2.0354	.51424	.50703	.50943	.51630	.52785	.52400
#2	2.0051	.51446	.50962	.51123	.52329	.53018	.52789
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.52719	.52255	.52409	1.0347	2.0228	2.0669	
SDev	.00090	.00065	.00073	.0050	.0018	.0087	
%RSD	.17110	.12385	.13967	.48633	.08885	.41864	
#1	.52655	.52209	.52358	1.0383	2.0241	2.0730	
#2	.52783	.52300	.52461	1.0312	2.0215	2.0608	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13851	--	--	--	--	--	--
SDev	52.71467	--	--	--	--	--	--
%RSD	.3805942	--	--	--	--	--	--
#1	13888	--	--	--	--	--	--
#2	13813	--	--	--	--	--	--

Method: METTRA Sample Name: CCB8

Operator: RJG

Run Time: 10/27/00 21:23:54

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	-.01675	-.00072	.00048	-.00015	.01040	.00009
SDev	.00012	.00478	.00133	.00008	.00001	.00083	.00006
%RSD	17.017	28.535	184.75	16.225	6.9252	7.9443	69.059
#1	.00078	-.01337	.00022	.00043	-.00016	.01099	.00013
#2	.00061	-.02013	-.00166	.00054	-.00014	.00982	.00005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00036	.00026	.00159	.00904	.01212	.00033	.00341
SDev	.00009	.00024	.00022	.00955	.00105	.00013	.00119
%RSD	24.506	93.840	14.149	105.66	8.6265	38.989	34.862
#1	.00030	.00043	.00175	.00228	.01138	.00024	.00425
#2	.00042	.00009	.00143	.01579	.01286	.00042	.00257
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00085	.00075	.00141	.00119	-.00204	.00055	-.00031
SDev	.00051	.00021	.00112	.00082	.00169	.00010	.00063
%RSD	59.855	27.269	79.325	68.370	83.043	18.489	202.61
#1	-.00049	.00061	.00062	.00062	-.00084	.00062	.00013
#2	-.00121	.00090	.00221	.00177	-.00324	.00048	-.00076
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00025	.00217	.00137	-.00050	-.00216	.00075	
SDev	.00232	.00275	.00106	.00038	.00000	.00009	
%RSD	928.65	126.75	77.943	76.351	.15105	11.321	
#1	-.00189	.00412	.00212	-.00023	-.00216	.00081	
#2	.00139	.00023	.00061	-.00077	-.00216	.00069	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14052	--	--	--	--	--	--
SDev	157.9679	--	--	--	--	--	--
%RSD	1.124191	--	--	--	--	--	--
#1	13940	--	--	--	--	--	--
#2	14163	--	--	--	--	--	--

Method: METTRA Sample Name: DM7M7

Operator: RJG

Run Time: 10/27/00 21:28:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00063	-.08355	.00121	.00018	.00067	.02489	.00004
SDev	.00021	.01070	.00011	.00008	.00012	.00083	.00012
%RSD	33.974	12.802	9.2168	42.279	18.227	3.3513	283.00
#1	.00078	-.07599	.00129	.00024	.00059	.02548	.00013
#2	.00048	-.09112	.00113	.00013	.00076	.02430	-.00004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00099	.00017	.00157	.01329	.00660	.00046	-.00073
SDev	.00014	.00044	.00005	.01668	.00112	.00003	.00042
%RSD	14.329	260.14	3.0402	125.48	17.053	7.0437	57.283
#1	.00089	.00048	.00160	.02509	.00739	.00044	-.00043
#2	.00109	-.00014	.00154	.00150	.00580	.00048	-.00102
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00060	-.00241	.00021	-.00066	-.00079	.00174	.00090
SDev	.00019	.00083	.00044	.00057	.00012	.00074	.00045
%RSD	32.168	34.407	214.43	86.341	15.043	42.472	50.510
#1	-.00046	-.00182	.00052	-.00026	-.00087	.00226	.00122
#2	-.00073	-.00299	-.00011	-.00107	-.00071	.00122	.00058
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00579	-.00297	-.00005	.00440	-.00216	.00177	
SDev	.00198	.00022	.00051	.00150	.00001	.00009	
%RSD	34.202	7.3383	996.29	34.088	.26401	4.7996	
#1	.00719	-.00312	.00031	.00547	-.00215	.00183	
#2	.00439	-.00281	-.00041	.00334	-.00216	.00171	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15405	--	--	--	--	--	--
SDev	146.0528	--	--	--	--	--	--
%RSD	.9480791	--	--	--	--	--	--
#1	15302	--	--	--	--	--	--
#2	15508	--	--	--	--	--	--

Method: METTRA Sample Name: DM7M9 Operator: RJG
 Run Time: 10/27/00 21:32:15
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00074	-.00756	.00138	.00008	-.00045	.03968	.00008
SDev	.00045	.00282	.00027	.00001	.00001	.00274	.00018
%RSD	61.274	37.261	19.312	7.5800	3.1244	6.9148	225.22
#1	.00106	-.00557	.00119	.00007	-.00046	.03774	.00021
#2	.00042	-.00955	.00157	.00008	-.00044	.04162	-.00005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00090	.00009	.00188	.01068	.00405	.00044	-.00100
SDev	.00007	.00081	.00003	.01288	.00231	.00005	.00074
%RSD	7.8972	899.46	1.5088	120.59	57.142	11.292	74.225
#1	.00095	.00066	.00186	.01978	.00568	.00048	-.00153
#2	.00085	-.00048	.00190	.00157	.00241	.00041	-.00048
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00080	-.00173	.00169	.00055	.00390	.00063	.00172
SDev	.00020	.00034	.00054	.00047	.00229	.00137	.00015
%RSD	25.008	19.375	31.779	85.725	58.568	216.59	8.9559
#1	-.00065	-.00150	.00207	.00088	.00229	.00160	.00183
#2	-.00094	-.00197	.00131	.00022	.00552	-.00034	.00161
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00288	-.00443	-.00200	.00453	-.00216	.00321	
SDev	.00093	.00549	.00335	.00097	.00000	.00007	
%RSD	32.131	123.80	167.90	21.365	.20375	2.3251	
#1	.00223	-.00055	.00037	.00384	-.00215	.00316	
#2	.00354	-.00831	-.00437	.00521	-.00216	.00326	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14338	--	--	--	--	--	--
SDev	61.27108	--	--	--	--	--	--
%RSD	.4273223	--	--	--	--	--	--
#1	14295	--	--	--	--	--	--
#2	14382	--	--	--	--	--	--

Method: METTRA Sample Name: DM7NG Operator: RJG
 Run Time: 10/27/00 21:36:25
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00051	-.03668	.00095	.00395	.00012	4.6000	-.00033
SDev	.00045	.01177	.00079	.00007	.00013	.0879	.00038
%RSD	88.618	32.096	82.647	1.8498	114.61	1.9111	116.35

#1	.00019	-.02835	.00151	.00401	.00002	4.6622	-.00060
#2	.00083	-.04500	.00040	.00390	.00021	4.5378	-.00006

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00105	.00037	.03870	.06851	.02678	.00131	.00156
SDev	.00019	.00016	.00032	.01155	.00155	.00006	.00000
%RSD	17.765	42.484	.84075	16.854	5.7939	4.2731	.19658

#1	.00092	.00026	.03893	.06034	.02788	.00127	.00156
#2	.00118	.00049	.03847	.07667	.02568	.00135	.00156

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00032	-.00512	.00119	-.00091	-.00027	-.00168	-.00121
SDev	.00013	.00113	.00068	.00008	.00049	.00001	.00016
%RSD	40.305	22.002	57.293	8.6402	180.55	.56420	13.013

#1	.00041	-.00432	.00071	-.00097	.00008	-.00169	-.00110
#2	.00023	-.00592	.00167	-.00086	-.00062	-.00167	-.00132

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00499	-.00496	-.00164	.00153	-.00111	.00826
SDev	.00282	.00033	.00116	.00032	.00049	.00017
%RSD	56.505	6.6918	70.617	20.626	44.288	2.0575

#1	.00300	-.00519	-.00246	.00131	-.00077	.00838
#2	.00699	-.00472	-.00082	.00175	-.00146	.00814

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14811	--	--	--	--	--	--
SDev	249.8566	--	--	--	--	--	--
%RSD	1.687003	--	--	--	--	--	--
#1	14634	--	--	--	--	--	--
#2	14987	--	--	--	--	--	--

Analytical spike prepared by adding .12mls of STDSA (0057-058-10) to a final volume
 Analysis Report of 10mls of sample DM7NA. 10/27/00 09:45:34 PM page 1
 RB102100

Method: METTRA Sample Name: DM7NAA Sb=.12ppm Operator: RJG
 Run Time: 10/27/00 21:41:28
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02630	14.250	.31157	.23347	.11888	3.0618	.12000
SDev	.00000	.248	.00287	.00123	.00150	.0281	.00120
%RSD	.01176	1.7416	.91971	.52915	1.2577	.91762	.99730
#1	.02630	14.074	.31359	.23434	.11994	3.0817	.12084
#2	.02630	14.425	.30954	.23260	.11783	3.0420	.11915
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.13098	.93817	.24101	16.694	2.4627	.19797	.12329
SDev	.00199	.00666	.00263	.232	.0131	.00123	.00265
%RSD	1.5178	.70947	1.0918	1.3925	.53244	.62315	2.1468
#1	.12957	.93347	.23915	16.529	2.4534	.19710	.12142
#2	.13238	.94288	.24287	16.858	2.4720	.19884	.12516
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14388	.18190	.17700	.17863	.11742	.12246	.12078
SDev	.00466	.00206	.00165	.00042	.00009	.00176	.00114
%RSD	3.2372	1.1331	.93258	.23210	.07634	1.4352	.94586
#1	.14718	.18044	.17816	.17892	.11735	.12370	.12159
#2	.14059	.18336	.17583	.17834	.11748	.12122	.11997
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.11127	.12162	.11817	.23739	.15574	.32950	
SDev	.00226	.00051	.00042	.00114	.00144	.00504	
%RSD	2.0323	.41527	.35217	.48044	.92113	1.5289	
#1	.11287	.12126	.11847	.23820	.15472	.33306	
#2	.10967	.12197	.11788	.23658	.15675	.32594	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14310	--	--	--	--	--	--
SDev	80.68130	--	--	--	--	--	--
%RSD	.5638066	--	--	--	--	--	--
#1	14367	--	--	--	--	--	--
#2	14253	--	--	--	--	--	--

Method: METTRA Sample Name: CRI-5

Operator: RJG

Run Time: 10/27/00 21:45:38

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02027	.34538	.02057	.40769	.00960	9.8651	.00985
SDev	.00092	.00031	.00117	.00102	.00032	.0117	.00039
%RSD	4.5485	.09061	5.6960	.25118	3.2948	.11869	3.9237
#1	.01962	.34516	.02140	.40697	.00982	9.8734	.00957
#2	.02092	.34560	.01974	.40842	.00938	9.8568	.01012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.03000	.60000	.03000	.60000	.01500	15.000	.01500
Low	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10142	.01993	.04992	.16986	9.5521	.02978	-.00218
SDev	.00025	.00089	.00077	.00096	.0310	.00032	.00025
%RSD	.24450	4.4652	1.5337	.56525	.32451	1.0592	11.458
#1	.10160	.01930	.04938	.16919	9.5302	.02956	-.00235
#2	.10125	.02056	.05046	.17054	9.5740	.03000	-.00200
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.15000	.03000	.07500	.30000	15.000	.04500	
Low	.05000	.01000	.02500	.10000	5.0000	.01500	
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08043	.00481	.00721	.00641	.11874	.12074	.12007
SDev	.00085	.00643	.00360	.00026	.00040	.00167	.00098
%RSD	1.0632	133.75	49.916	4.0410	.34110	1.3796	.81297
#1	.08104	.00026	.00976	.00660	.11902	.11956	.11938
#2	.07983	.00936	.00467	.00623	.11845	.12192	.12076
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.12000			.00900			.18000
Low	.04000			.00300			.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00804	.00914	.00877	.02072	.09866	.04165	
SDev	.00146	.00377	.00203	.00296	.00068	.00029	
%RSD	18.171	41.216	23.088	14.269	.68445	.69366	
#1	.00701	.01180	.01021	.02281	.09819	.04145	
#2	.00908	.00648	.00734	.01863	.09914	.04186	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.01500	.03000	.15000	.06000	
Low			.00500	.01000	.05000	.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14226	--	--	--	--	--	--
SDev	45.89151	--	--	--	--	--	--
%RSD	.3225946	--	--	--	--	--	--
#1	14193	--	--	--	--	--	--
#2	14258	--	--	--	--	--	--

Method: METTRA Sample Name: ICSA 0057-115-1 Operator: RJG
 Run Time: 10/27/00 21:49:48
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	538.59	.00135	.00154	-.00204	482.62	.00111
SDev	.00091	.84	.00124	.00008	.00005	1.13	.00041
%RSD	174.39	.15655	91.881	5.1724	2.4676	.23366	36.472
#1	.00116	537.99	.00047	.00160	-.00201	483.41	.00140
#2	-.00012	539.18	.00222	.00149	-.00208	481.82	.00083
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.00				500.00	
Range		20.000				20.000	
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00081	.00169	.00156	203.99	532.40	.00812	-.00422
SDev	.00012	.00024	.00021	.36	.26	.00009	.00056
%RSD	15.118	14.449	13.190	.17765	.04816	1.0448	13.201
#1	.00073	.00152	.00142	203.74	532.58	.00818	-.00461
#2	.00090	.00186	.00171	204.25	532.22	.00806	-.00382
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value				200.00	500.00		
Range				20.000	20.000		
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00288	-.03305	.01407	-.00162	-.00644	-.00012	-.00223
SDev	.00140	.00399	.00240	.00027	.00372	.00614	.00286
%RSD	48.595	12.071	17.048	16.740	57.701	5034.5	128.34
#1	.00189	-.03023	.01237	-.00181	-.00907	.00422	-.00021
#2	.00387	-.03587	.01577	-.00143	-.00381	-.00446	-.00425
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00712	-.00179	.00118	-.00916	.00679	.00496	
SDev	.00410	.00578	.00249	.00284	.00118	.00015	
%RSD	57.544	322.49	212.09	30.953	17.406	2.9362	
#1	.01002	-.00588	-.00059	-.00716	.00763	.00486	
#2	.00422	.00230	.00294	-.01117	.00596	.00507	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	
Value							
Range							

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12973	--	--	--	--	--	--
SDev	13.82380	--	--	--	--	--	--
%RSD	.1065605	--	--	--	--	--	--
#1	12963	--	--	--	--	--	--
#2	12982	--	--	--	--	--	--

Method: METTRA Sample Name: ICSAB 0057-104-1 Operator: RJG
 Run Time: 10/27/00 21:53:58
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22232	527.39	.10370	.52155	.49047	472.76	.91556
SDev	.00124	1.17	.00168	.00216	.00291	2.77	.00466
%RSD	.55902	.22270	1.6194	.41457	.59337	.58625	.50852
#1	.22320	528.22	.10488	.52308	.49253	474.72	.91885
#2	.22144	526.56	.10251	.52002	.48841	470.80	.91226
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	500.00	.10000	.50000	.50000	500.00	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48595	.49859	.54185	200.13	519.78	.50552	-.00421
SDev	.00173	.00351	.00209	.75	2.04	.00223	.00110
%RSD	.35532	.70324	.38508	.37495	.39225	.44091	26.072
#1	.48717	.50107	.54332	200.66	521.22	.50710	-.00498
#2	.48473	.49611	.54037	199.60	518.34	.50395	-.00343
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.50000	.50000	.50000	200.00	500.00	.50000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96506	.01231	.06308	.04618	.63001	.64145	.63764
SDev	.00403	.00107	.00034	.00013	.01035	.00398	.00610
%RSD	.41780	8.6768	.53509	.28262	1.6427	.62055	.95685
#1	.96791	.01306	.06284	.04627	.63733	.64426	.64195
#2	.96221	.01155	.06332	.04608	.62269	.63863	.63332
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	1.0000			.05000			.60000
Range	20.000			20.000			20.000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.05118	.05002	.05041	.09579	.51694	1.0452	
SDev	.00581	.00142	.00098	.00689	.00532	.0049	
%RSD	11.346	2.8455	1.9525	7.1977	1.0297	.47132	
#1	.04707	.05103	.04971	.10066	.52071	1.0487	
#2	.05528	.04901	.05110	.09091	.51318	1.0418	
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	
Value			.05000	.10000	.50000	1.0000	
Range			20.000	20.000	20.000	20.000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13189	--	--	--	--	--	--
SDev	53.56334	--	--	--	--	--	--
%RSD	.4061282	--	--	--	--	--	--
#1	13151	--	--	--	--	--	--
#2	13227	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-9 Operator: RJG
 Run Time: 10/27/00 21:58:08
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0390	24.965	.50797	2.0230	1.9989	49.754	.48666
SDev	.0050	.314	.00007	.0003	.0146	.053	.00231
%RSD	.48399	1.2569	.01436	.01278	.72979	.10584	.47439
#1	1.0425	24.744	.50802	2.0228	2.0092	49.792	.48830
#2	1.0354	25.187	.50792	2.0232	1.9886	49.717	.48503
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0011	1.9945	1.9959	24.902	48.877	1.9878	2.0135
SDev	.0109	.0124	.0025	.058	.093	.0080	.0057
%RSD	.54558	.62196	.12445	.23199	.19096	.40445	.28342
#1	2.0089	2.0032	1.9976	24.861	48.811	1.9935	2.0176
#2	1.9934	1.9857	1.9941	24.943	48.943	1.9821	2.0095
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9835	.50523	.49506	.49845	.50898	.51465	.51276
SDev	.0126	.00855	.00700	.00752	.00391	.00493	.00459
%RSD	.63706	1.6931	1.4142	1.5084	.76782	.95858	.89552
#1	1.9924	.51128	.50001	.50376	.51174	.51814	.51601
#2	1.9745	.49918	.49011	.49313	.50621	.51116	.50952
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.51626	.51530	.51562	1.0222	1.9923	2.0291	
SDev	.00434	.00646	.00575	.0000	.0076	.0126	
%RSD	.84071	1.2529	1.1155	.00463	.38102	.61954	
#1	.51933	.51987	.51969	1.0223	1.9976	2.0380	
#2	.51319	.51074	.51155	1.0222	1.9869	2.0202	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14053	--	--	--	--	--	--
SDev	195.3382	--	--	--	--	--	--
%RSD	1.389989	--	--	--	--	--	--
#1	13915	--	--	--	--	--	--
#2	14191	--	--	--	--	--	--

Method: METTRA Sample Name: CCB9 Operator: RJG
 Run Time: 10/27/00 22:02:18
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00101	.05416	-.00068	.00084	-.00003	.10638	.00033
SDev	.00001	.07899	.00136	.00079	.00073	.10126	.00029
%RSD	.95386	145.85	199.26	93.799	2383.2	95.189	89.542
#1	.00101	-.00170	-.00164	.00028	-.00055	.03478	.00012
#2	.00102	.11002	.00028	.00139	.00049	.17798	.00053
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00086	.00068	.00299	.05287	.09409	.00079	.00337
SDev	.00103	.00053	.00053	.04491	.08989	.00068	.00150
%RSD	120.50	78.868	17.841	84.942	95.528	85.614	44.477
#1	.00013	.00030	.00261	.02112	.03053	.00031	.00443
#2	.00159	.00105	.00337	.08463	.15765	.00127	.00231
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00151	-.00012	.00172	.00111	-.00195	-.00132	-.00153
SDev	.00019	.00265	.00055	.00052	.00106	.00245	.00128
%RSD	12.608	2196.1	31.825	46.647	54.438	184.80	83.385
#1	.00138	.00176	.00134	.00148	-.00270	.00041	-.00063
#2	.00165	-.00200	.00211	.00074	-.00120	-.00305	-.00244
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00133	.00212	.00097	.00320	.00002	.00103	
SDev	.00090	.00062	.00011	.00108	.00308	.00085	
%RSD	68.002	29.137	11.496	33.806	12435.	82.300	
#1	-.00069	.00168	.00089	.00243	-.00215	.00043	
#2	-.00196	.00256	.00105	.00396	.00220	.00163	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13886	--	--	--	--	--	--
SDev	51.97235	--	--	--	--	--	--
%RSD	.3742882	--	--	--	--	--	--
#1	13849	--	--	--	--	--	--
#2	13922	--	--	--	--	--	--

Method: METTRA Sample Name: DLQA5 Operator: RJG
 Run Time: 10/27/00 22:09:12
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00054	-.04237	-.00003	.06009	.00008	102.19	-.00010
SDev	.00008	.00045	.00123	.00027	.00006	.95	.00003
%RSD	15.103	1.0602	3522.6	.45051	78.802	.93405	33.506

#1	.00048	-.04268	.00083	.06028	.00013	102.87	-.00008
#2	.00060	-.04205	-.00090	.05990	.00004	101.52	-.00013

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00077	-.00009	.00201	.93329	3.4125	.12897	-.00041
SDev	.00029	.00025	.00039	.01069	.0091	.00075	.00010
%RSD	37.294	281.63	19.358	1.1460	.26755	.57931	24.102

#1	.00057	-.00026	.00173	.92572	3.4190	.12950	-.00034
#2	.00098	.00009	.00228	.94085	3.4060	.12844	-.00047

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00076	-.00372	.00049	-.00091	-.00043	-.00150	-.00114
SDev	.00029	.00067	.00004	.00020	.00018	.00075	.00056
%RSD	37.776	18.149	8.4880	21.632	42.206	49.809	48.854

#1	-.00056	-.00420	.00052	-.00105	-.00056	-.00203	-.00154
#2	-.00096	-.00324	.00046	-.00077	-.00030	-.00097	-.00075

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00615	-.00493	-.00124	.00185	-.00032	.00258
SDev	.00007	.00120	.00078	.00277	.00071	.00003
%RSD	1.1132	24.288	62.401	149.62	219.69	1.1109

#1	.00619	-.00578	-.00179	-.00011	-.00083	.00256
#2	.00610	-.00409	-.00070	.00381	.00018	.00260

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14888	--	--	--	--	--	--
SDev	83.33226	--	--	--	--	--	--
%RSD	.5597324	--	--	--	--	--	--
#1	14829	--	--	--	--	--	--
#2	14947	--	--	--	--	--	--

Method: METTRA Sample Name: DLQ9C Operator: RJG
 Run Time: 10/27/00 22:13:23
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00062	-.04703	-.00024	.00397	-.00006	81.537	-.00020
SDev	.00001	.00158	.00026	.00002	.00011	.637	.00025
%RSD	1.5579	3.3576	108.17	.57649	181.48	.78183	123.35

#1	.00063	-.04591	-.00042	.00395	-.00014	81.987	-.00003
#2	.00061	-.04814	-.00006	.00398	.00002	81.086	-.00038

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00079	-.00035	.00372	2.6158	2.5225	.08350	-.00257
SDev	.00003	.00041	.00015	.0161	.0187	.00054	.00025
%RSD	3.9232	117.94	3.9903	.61419	.74190	.64966	9.7633

#1	.00082	-.00064	.00361	2.6272	2.5357	.08388	-.00239
#2	.00077	-.00006	.00382	2.6044	2.5093	.08311	-.00274

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00069	-.00486	-.00006	-.00166	-.00082	.00071	.00020
SDev	.00056	.00035	.00001	.00012	.00162	.00218	.00199
%RSD	81.997	7.1916	15.479	7.4024	198.42	305.89	977.48

#1	-.00108	-.00461	-.00006	-.00157	.00033	.00225	.00161
#2	-.00029	-.00511	-.00007	-.00175	-.00196	-.00083	-.00121

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00414	-.00684	-.00319	.00317	-.00127	.00421
SDev	.00002	.00153	.00101	.00361	.00001	.00001
%RSD	.57702	22.313	31.702	113.91	.43249	.28728

#1	.00415	-.00792	-.00390	.00062	-.00126	.00420
#2	.00412	-.00576	-.00247	.00572	-.00127	.00422

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14749	--	--	--	--	--	--
SDev	102.9193	--	--	--	--	--	--
%RSD	.6977990	--	--	--	--	--	--
#1	14676	--	--	--	--	--	--
#2	14822	--	--	--	--	--	--

Method: METTRA Sample Name: DLQ9H Operator: RJG
 Run Time: 10/27/00 22:17:33
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00063	.21534	.01270	.06907	-.00010	21.708	-.00021
SDev	.00013	.00103	.00093	.00024	.00039	.004	.00017
%RSD	21.151	.48083	7.2818	.35495	382.92	.02003	79.794
#1	.00054	.21607	.01204	.06889	.00017	21.705	-.00033
#2	.00073	.21461	.01335	.06924	-.00038	21.711	-.00009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00299	.00145	.00161	14.648	3.7832	.06538	-.00238
SDev	.00047	.00000	.00035	.032	.0027	.00007	.00099
%RSD	15.762	.01678	21.758	.22135	.07007	.11314	41.428
#1	.00266	.00145	.00137	14.625	3.7813	.06533	-.00308
#2	.00332	.00145	.00186	14.671	3.7851	.06543	-.00169
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00278	-.00213	.00030	-.00051	-.00081	.00020	-.00014
SDev	.00010	.00264	.00049	.00056	.00089	.00045	.00060
%RSD	3.4734	124.03	160.01	109.66	109.12	225.98	429.85
#1	.00271	-.00026	-.00004	-.00011	-.00019	.00052	.00028
#2	.00285	-.00400	.00065	-.00090	-.00144	-.00012	-.00056
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00652	-.00503	-.00119	.00479	.00284	.00983	
SDev	.00160	.00017	.00042	.00308	.00001	.00004	
%RSD	24.514	3.3273	35.449	64.210	.38982	.44852	
#1	.00539	-.00491	-.00148	.00696	.00283	.00986	
#2	.00765	-.00515	-.00089	.00261	.00285	.00980	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14607	--	--	--	--	--	--
SDev	1.520556	--	--	--	--	--	--
%RSD	.0104097	--	--	--	--	--	--
#1	14608	--	--	--	--	--	--
#2	14606	--	--	--	--	--	--

Method: METTRA Sample Name: DLQ9M Operator: RJG
 Run Time: 10/27/00 22:21:43
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00092	-.02438	.00097	.05905	-.00042	116.80	.00002
SDev	.00002	.00607	.00065	.00089	.00002	1.99	.00003
%RSD	2.5506	24.886	67.490	1.4992	4.7673	1.7059	186.35
#1	.00094	-.02009	.00051	.05967	-.00044	118.21	-.00001
#2	.00090	-.02867	.00143	.05842	-.00041	115.39	.00004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00086	.00019	.00228	1.4004	3.2050	.11015	-.00169
SDev	.00001	.00027	.00005	.0151	.0489	.00180	.00180
%RSD	.89247	140.13	2.1411	1.0801	1.5257	1.6372	106.34
#1	.00086	.00038	.00225	1.4111	3.2396	.11142	-.00296
#2	.00087	.00000	.00232	1.3897	3.1704	.10887	-.00042
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00048	-.00339	.00083	-.00057	-.00186	-.00157	-.00166
SDev	.00143	.00106	.00053	.00070	.00057	.00014	.00010
%RSD	300.31	31.180	63.283	122.85	30.509	8.7216	5.8613
#1	-.00149	-.00264	.00121	-.00008	-.00226	-.00147	-.00173
#2	.00053	-.00413	.00046	-.00107	-.00146	-.00166	-.00159
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00698	-.00677	-.00219	.00211	-.00065	.00560	
SDev	.00131	.00080	.00097	.00003	.00002	.00007	
%RSD	18.760	11.753	44.110	1.3169	2.7986	1.2433	
#1	.00791	-.00621	-.00151	.00213	-.00063	.00565	
#2	.00605	-.00733	-.00288	.00209	-.00066	.00555	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14545	--	--	--	--	--	--
SDev	180.8073	--	--	--	--	--	--
%RSD	1.243124	--	--	--	--	--	--
#1	14417	--	--	--	--	--	--
#2	14672	--	--	--	--	--	--

Method: METTRA Sample Name: DLQ9X Operator: RJG
 Run Time: 10/27/00 22:25:53
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00113	.07243	.00291	.01410	-.00032	39.765	.00008
SDev	.00022	.00318	.00135	.00004	.00016	.034	.00002
%RSD	19.773	4.3934	46.516	.25389	50.446	.08640	19.618

#1	.00129	.07018	.00386	.01408	-.00021	39.740	.00009
#2	.00097	.07468	.00195	.01413	-.00044	39.789	.00007

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00095	.00091	.00387	.19107	.75395	.00784	.01322
SDev	.00011	.00000	.00016	.00151	.00284	.00004	.00023
%RSD	11.304	.12851	4.2260	.78845	.37625	.49067	1.7539

#1	.00087	.00091	.00398	.19213	.75194	.00781	.01306
#2	.00102	.00091	.00375	.19000	.75595	.00787	.01339

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00151	-.00501	.00162	-.00059	.00063	-.00028	.00003
SDev	.00085	.00021	.00150	.00107	.00208	.00087	.00012
%RSD	56.365	4.2683	92.696	181.59	331.75	314.24	460.01

#1	.00211	-.00486	.00268	.00017	.00210	-.00089	.00011
#2	.00091	-.00516	.00056	-.00135	-.00085	.00034	-.00006

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00832	-.00526	-.00074	.00674	.00400	.02255
SDev	.00067	.00343	.00251	.00112	.00001	.00013
%RSD	8.0232	65.169	340.14	16.651	.11260	.57618

#1	.00785	-.00768	-.00251	.00753	.00400	.02264
#2	.00879	-.00284	.00104	.00595	.00400	.02246

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14854	--	--	--	--	--	--
SDev	9.722718	--	--	--	--	--	--
%RSD	.0654542	--	--	--	--	--	--
#1	14847	--	--	--	--	--	--
#2	14861	--	--	--	--	--	--

Method: METTRA Sample Name: DLVTV

Operator: RJG

Run Time: 10/27/00 22:30:03

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00064	.14322	.00204	.06363	-.00070	24.700	-.00007
SDev	.00000	.00675	.00003	.00060	.00006	.213	.00016
%RSD	.02552	4.7159	1.2333	.94682	9.0482	.86074	229.43
#1	.00064	.14800	.00202	.06406	-.00075	24.851	-.00019
#2	.00064	.13845	.00206	.06321	-.00066	24.550	.00004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00124	.00099	.00197	5.5603	2.2689	.06860	-.00313
SDev	.00019	.00014	.00034	.0325	.0159	.00044	.00026
%RSD	15.236	13.895	17.251	.58406	.69941	.64383	8.2141
#1	.00111	.00109	.00173	5.5833	2.2801	.06891	-.00295
#2	.00137	.00089	.00221	5.5374	2.2577	.06828	-.00331
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	-.00236	-.00030	-.00098	.00085	-.00148	-.00070
SDev	.00100	.00186	.00061	.00021	.00170	.00047	.00025
%RSD	1327.8	78.961	206.43	21.634	201.33	31.795	36.043
#1	.00063	-.00104	-.00073	-.00083	-.00036	-.00115	-.00088
#2	-.00078	-.00368	.00014	-.00113	.00205	-.00181	-.00052
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00242	-.00649	-.00353	.00304	-.00044	.00956	
SDev	.00163	.00058	.00016	.00260	.00024	.00015	
%RSD	67.321	8.8678	4.4885	85.590	54.780	1.5941	
#1	.00357	-.00690	-.00341	.00120	-.00061	.00946	
#2	.00127	-.00609	-.00364	.00488	-.00027	.00967	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14075	--	--	--	--	--	--
SDev	37.90065	--	--	--	--	--	--
%RSD	.2692812	--	--	--	--	--	--
#1	14048	--	--	--	--	--	--
#2	14102	--	--	--	--	--	--

Method: METTRA Sample Name: DNPCLB Operator: RJG
 Run Time: 10/27/00 22:34:13
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	-.04833	.00054	-.00006	-.00061	.12602	-.00002
SDev	.00037	.00075	.00230	.00019	.00006	.00002	.00001
%RSD	537.64	1.5579	425.35	332.67	10.082	.01329	47.534

#1	-.00019	-.04886	.00216	-.00020	-.00057	.12603	-.00002
#2	.00033	-.04779	-.00108	.00008	-.00065	.12601	-.00001

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	-.00066	.00222	-.00030	.00670	.00067	-.00203
SDev	.00080	.00004	.00021	.00266	.00382	.00007	.00001
%RSD	201.04	5.7816	9.4160	892.59	57.063	11.115	.37902

#1	-.00017	-.00069	.00207	-.00218	.00399	.00062	-.00203
#2	.00096	-.00064	.00236	.00158	.00940	.00072	-.00202

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00162	-.00341	.00149	-.00014	-.00034	-.00201	-.00146
SDev	.00097	.00110	.00098	.00102	.00155	.00016	.00041
%RSD	59.545	32.260	65.815	713.17	458.53	7.9557	28.193

#1	-.00231	-.00419	.00080	-.00086	-.00144	-.00190	-.00175
#2	-.00094	-.00263	.00218	.00058	.00076	-.00213	-.00117

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00377	-.00379	-.00127	.00199	.00010	.00667
SDev	.00060	.00291	.00214	.00178	.00320	.00011
%RSD	16.025	76.861	168.59	89.583	3148.4	1.6438

#1	.00334	-.00585	-.00279	.00073	-.00216	.00659
#2	.00420	-.00173	.00024	.00325	.00236	.00674

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14505	--	--	--	--	--	--
SDev	79.16005	--	--	--	--	--	--
%RSD	.5457404	--	--	--	--	--	--
#1	14561	--	--	--	--	--	--
#2	14449	--	--	--	--	--	--

Method: METTRA Sample Name: DNPKLC Operator: RJG
 Run Time: 10/27/00 22:38:23
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05238	1.8417	2.0569	1.9663	.04930	L.07277	.04934
SDev	.00135	.0120	.0013	.0030	.00026	.00163	.00019
%RSD	2.5722	.65422	.06487	.15316	.52178	2.2405	.38927
#1	.05334	1.8503	2.0559	1.9641	.04912	L.07392	.04948
#2	.05143	1.8332	2.0578	1.9684	.04948	L.07162	.04920
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50806	.19930	.24137	.98165	L.00742	.49296	1.0012
SDev	.00261	.00159	.00103	.00114	.00478	.00235	.0007
%RSD	.51386	.79819	.42705	.11659	64.489	.47738	.07040
#1	.50991	.20043	.24210	.98246	L.01080	.49462	1.0007
#2	.50622	.19818	.24064	.98084	L.00404	.49130	1.0017
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49934	.50101	.50084	.50090	.51184	.52673	.52177
SDev	.00001	.00812	.01380	.01191	.01638	.00482	.00867
%RSD	.00263	1.6206	2.7555	2.3775	3.2004	.91564	1.6620
#1	.49933	.50676	.51060	.50932	.52342	.53014	.52790
#2	.49935	.49527	.49108	.49248	.50025	.52332	.51564
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.1942	2.2390	2.2241	1.9822	.48825	.52976	
SDev	.0300	.0768	.0612	.0043	.00222	.00181	
%RSD	1.3673	3.4317	2.7535	.21464	.45574	.34153	
#1	2.2154	2.2934	2.2674	1.9852	.48982	.53104	
#2	2.1730	2.1847	2.1808	1.9792	.48668	.52848	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14174	--	--	--	--	--	--
SDev	282.0645	--	--	--	--	--	--
%RSD	1.989964	--	--	--	--	--	--
#1	13975	--	--	--	--	--	--
#2	14374	--	--	--	--	--	--

Method: METTRA Sample Name: DM9RW Operator: RJG
 Run Time: 10/27/00 22:42:33
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00201	.01432	.01837	.08404	-.00105	59.908	.00012
SDev	.00024	.00123	.00148	.00036	.00040	.147	.00015
%RSD	11.957	8.6220	8.0719	.42522	37.858	.24514	124.38
#1	.00184	.01520	.01732	.08379	-.00077	59.804	.00001
#2	.00218	.01345	.01942	.08429	-.00133	60.012	.00022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01354	.00583	.05988	12.777	14.236	8.3434	.00428
SDev	.00017	.00069	.00063	.072	.081	.0405	.00003
%RSD	1.2329	11.871	1.0518	.56486	.57180	.48483	.81395
#1	.01343	.00534	.05944	12.726	14.178	8.3148	.00425
#2	.01366	.00631	.06033	12.828	14.294	8.3720	.00430
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01178	.00633	.00711	.00685	-.00225	-.00008	-.00080
SDev	.00076	.00494	.00131	.00077	.00244	.00203	.00054
%RSD	6.4072	78.050	18.455	11.221	108.45	2631.4	67.586
#1	.01125	.00283	.00804	.00631	-.00052	-.00151	-.00118
#2	.01231	.00982	.00618	.00739	-.00397	.00136	-.00042
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.01221	-.00567	.00028	-.00610	.00060	.06808	
SDev	.00349	.00125	.00033	.00230	.00077	.00055	
%RSD	28.610	22.023	116.75	37.727	129.06	.81086	
#1	.00974	-.00479	.00005	-.00447	.00005	.06769	
#2	.01468	-.00656	.00052	-.00773	.00115	.06847	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14118	--	--	--	--	--	--
SDev	63.74595	--	--	--	--	--	--
%RSD	.4515185	--	--	--	--	--	--
#1	14163	--	--	--	--	--	--
#2	14073	--	--	--	--	--	--

Method: METTRA Sample Name: DM9RWP5 Operator: RJG
 Run Time: 10/27/00 22:46:44
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00112	-.04556	.00328	.01608	-.00064	11.462	.00010
SDev	.00030	.00227	.00201	.00042	.00004	.313	.00004
%RSD	27.082	4.9847	61.206	2.6007	6.4977	2.7325	40.433
#1	.00134	-.04717	.00186	.01579	-.00067	11.240	.00013
#2	.00091	-.04396	.00470	.01638	-.00061	11.683	.00007
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00262	.00107	.01256	2.4255	2.6656	1.5873	-.00018
SDev	.00007	.00022	.00047	.0863	.0766	.0450	.00009
%RSD	2.8304	20.967	3.7660	3.5598	2.8748	2.8328	46.195
#1	.00267	.00122	.01222	2.3645	2.6114	1.5555	-.00012
#2	.00257	.00091	.01289	2.4866	2.7198	1.6191	-.00025
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00243	-.00042	.00187	.00111	-.00161	.00072	-.00005
SDev	.00049	.00300	.00141	.00006	.00203	.00028	.00086
%RSD	20.080	709.16	75.548	5.1919	126.16	38.249	1565.9
#1	.00278	.00170	.00087	.00115	-.00304	.00053	-.00066
#2	.00209	-.00254	.00287	.00106	-.00017	.00092	.00055
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00016	.00051	.00039	-.00414	-.00168	.01346	
SDev	.00031	.00277	.00195	.00196	.00046	.00015	
%RSD	197.80	546.21	499.88	47.369	27.602	1.1091	
#1	-.00006	-.00145	-.00099	-.00552	-.00135	.01336	
#2	.00037	.00246	.00177	-.00275	-.00201	.01357	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14400	--	--	--	--	--	--
SDev	8.662058	--	--	--	--	--	--
%RSD	.0601535	--	--	--	--	--	--
#1	14394	--	--	--	--	--	--
#2	14406	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-10 Operator: RJG
 Run Time: 10/27/00 22:50:54
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0343	24.732	.50638	2.0069	1.9935	49.346	.48503
SDev	.0065	.192	.00513	.0084	.0100	.259	.00273
%RSD	.62367	.77742	1.0130	.42073	.50114	.52526	.56229
#1	1.0297	24.596	.50276	2.0009	1.9864	49.163	.48310
#2	1.0388	24.868	.51001	2.0129	2.0005	49.530	.48696
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9938	1.9859	1.9815	24.662	48.535	1.9735	2.0104
SDev	.0141	.0142	.0139	.192	.326	.0131	.0237
%RSD	.70613	.71417	.69929	.77789	.67074	.66268	1.1796
#1	1.9838	1.9759	1.9717	24.526	48.305	1.9642	1.9936
#2	2.0037	1.9960	1.9913	24.798	48.765	1.9827	2.0272
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9775	.50538	.49689	.49972	.50585	.51564	.51238
SDev	.0063	.00815	.00566	.00649	.00819	.00774	.00789
%RSD	.32101	1.6120	1.1381	1.2977	1.6200	1.5013	1.5404
#1	1.9730	.49962	.49289	.49513	.50006	.51016	.50680
#2	1.9820	.51114	.50089	.50430	.51165	.52111	.51796
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.51621	.51458	.51512	1.0159	1.9834	2.0283	
SDev	.01056	.00954	.00988	.0079	.0088	.0137	
%RSD	2.0459	1.8543	1.9182	.77980	.44432	.67476	
#1	.50874	.50783	.50813	1.0103	1.9772	2.0187	
#2	.52367	.52132	.52211	1.0215	1.9896	2.0380	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13925	--	--	--	--	--	--
SDev	128.1631	--	--	--	--	--	--
%RSD	.9203929	--	--	--	--	--	--
#1	14015	--	--	--	--	--	--
#2	13834	--	--	--	--	--	--

Method: METTRA Sample Name: CCB10

Operator: RJG

Run Time: 10/27/00 22:55:04

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00069	-.03039	-.00096	.00028	-.00063	.01337	.00013
SDev	.00025	.00166	.00002	.00015	.00004	.00097	.00022
%RSD	35.949	5.4665	2.2900	54.122	6.8803	7.2891	165.48
#1	.00052	-.02921	-.00097	.00018	-.00060	.01406	-.00002
#2	.00087	-.03156	-.00094	.00039	-.00066	.01268	.00028
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00003	-.00009	.00237	.01637	.00442	.00082	.00255
SDev	.00076	.00096	.00042	.00068	.00671	.00021	.00120
%RSD	2770.3	1110.0	17.484	4.1497	151.75	25.967	47.050
#1	-.00051	-.00076	.00208	.01589	-.00032	.00067	.00340
#2	.00056	.00059	.00266	.01686	.00917	.00097	.00170
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.00036	.00073	.00061	.00029	-.00021	-.00004
SDev	.00000	.00085	.00194	.00101	.00207	.00083	.00014
%RSD	3.9284	235.54	265.22	165.98	714.22	401.44	331.61
#1	.00008	-.00024	.00210	.00132	.00175	-.00079	.00006
#2	.00008	.00096	-.00064	-.00011	-.00117	.00038	-.00014
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00251	-.00119	-.00163	-.00319	-.00216	.00050	
SDev	.00167	.00233	.00100	.00232	.00000	.00026	
%RSD	66.584	195.30	61.239	72.924	.01076	51.186	
#1	-.00369	.00046	-.00093	-.00154	-.00216	.00032	
#2	-.00133	-.00284	-.00234	-.00483	-.00216	.00068	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13927	--	--	--	--	--	--
SDev	21.46110	--	--	--	--	--	--
%RSD	.1540946	--	--	--	--	--	--
#1	13942	--	--	--	--	--	--
#2	13912	--	--	--	--	--	--

Method: METTRA Sample Name: DM9RWX Operator: RJG
 Run Time: 10/27/00 22:59:14
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00163	.01192	.01812	.08186	-.00050	58.420	.00017
SDev	.00010	.00838	.00020	.00023	.00003	.068	.00010
%RSD	6.1021	70.329	1.0961	.27714	6.5791	.11664	60.124
#1	.00170	.00599	.01826	.08170	-.00047	58.372	.00010
#2	.00156	.01785	.01798	.08202	-.00052	58.469	.00024
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01351	.00700	.05871	12.526	13.926	8.1378	.00276
SDev	.00010	.00028	.00061	.020	.018	.0104	.00005
%RSD	.75350	4.0486	1.0417	.15860	.12720	.12732	1.8082
#1	.01343	.00680	.05827	12.512	13.914	8.1305	.00280
#2	.01358	.00720	.05914	12.540	13.939	8.1451	.00273
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01095	.00429	.00731	.00631	-.00137	.00085	.00011
SDev	.00217	.00011	.00162	.00104	.00036	.00140	.00082
%RSD	19.784	2.5776	22.190	16.573	25.922	164.05	721.56
#1	.01248	.00437	.00616	.00557	-.00112	-.00014	-.00046
#2	.00942	.00422	.00846	.00704	-.00162	.00185	.00069
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00871	-.00868	-.00289	-.00579	.00037	.05961	
SDev	.00152	.00096	.00013	.00371	.00000	.00021	
%RSD	17.434	11.015	4.5714	63.954	.71734	.35673	
#1	.00978	-.00936	-.00298	-.00841	.00037	.05946	
#2	.00764	-.00800	-.00280	-.00317	.00037	.05976	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14412	--	--	--	--	--	--
SDev	77.92330	--	--	--	--	--	--
%RSD	.5406798	--	--	--	--	--	--
#1	14467	--	--	--	--	--	--
#2	14357	--	--	--	--	--	--

Method: METTRA Sample Name: DM9RWS Operator: RJG
 Run Time: 10/27/00 23:03:25
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05370	2.1276	.06071	2.0719	.04950	60.862	.04865
SDev	.00034	.0152	.00036	.0087	.00007	.259	.00020
%RSD	.64152	.71635	.60052	.41873	.14308	.42606	.40250
#1	.05394	2.1383	.06097	2.0780	.04955	61.045	.04878
#2	.05345	2.1168	.06046	2.0657	.04945	60.678	.04851
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51638	.20470	.30862	13.982	14.513	8.9668	.00157
SDev	.00241	.00037	.00114	.032	.050	.0201	.00017
%RSD	.46711	.18216	.36940	.23046	.34280	.22430	10.944
#1	.51808	.20497	.30942	14.005	14.548	8.9810	.00169
#2	.51467	.20444	.30781	13.959	14.478	8.9526	.00145
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51457	.02357	.02919	.02732	-.00018	-.00023	-.00022
SDev	.00293	.00163	.00004	.00051	.00144	.00037	.00073
%RSD	.56843	6.9214	.15026	1.8817	777.84	162.35	338.40
#1	.51664	.02242	.02922	.02695	-.00120	-.00049	-.00073
#2	.51250	.02472	.02916	.02768	.00083	.00003	.00030
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.02010	.00351	.00904	.04658	.49596	.58737	
SDev	.00374	.00148	.00026	.00655	.00161	.00228	
%RSD	18.584	42.161	2.8313	14.070	.32524	.38882	
#1	.02274	.00247	.00922	.04195	.49710	.58899	
#2	.01746	.00456	.00886	.05121	.49482	.58576	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14268	--	--	--	--	--	--
SDev	10.28827	--	--	--	--	--	--
%RSD	.0721054	--	--	--	--	--	--
#1	14261	--	--	--	--	--	--
#2	14276	--	--	--	--	--	--

Method: METTRA Sample Name: DM9R0 Operator: RJG
 Run Time: 10/27/00 23:07:35
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00116	-.00994	.00318	.13055	-.00130	82.388	.00010
SDev	.00028	.00010	.00031	.00062	.00015	.162	.00004
%RSD	24.139	1.0218	9.8279	.47791	11.319	.19692	39.782
#1	.00136	-.01001	.00296	.13011	-.00120	82.274	.00013
#2	.00096	-.00986	.00340	.13099	-.00141	82.503	.00007
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00420	.00246	.03275	3.5416	14.816	2.6387	-.00135
SDev	.00020	.00052	.00003	.0103	.059	.0109	.00036
%RSD	4.8195	21.205	.08392	.29132	.39687	.41474	26.238
#1	.00405	.00283	.03277	3.5343	14.774	2.6310	-.00160
#2	.00434	.00209	.03273	3.5489	14.857	2.6464	-.00110
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00172	-.00123	.00447	.00257	.00162	-.00123	-.00028
SDev	.00009	.00068	.00003	.00020	.00109	.00085	.00093
%RSD	4.9784	55.105	.72321	7.9072	67.212	69.104	334.92
#1	.00178	-.00075	.00445	.00272	.00240	-.00063	.00038
#2	.00166	-.00170	.00449	.00243	.00085	-.00183	-.00093
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00999	-.00471	.00019	.00025	-.00023	.03579	
SDev	.00034	.00150	.00111	.00176	.00001	.00028	
%RSD	3.3574	31.860	595.59	690.81	2.9313	.79377	
#1	.00976	-.00577	-.00060	-.00099	-.00023	.03559	
#2	.01023	-.00365	.00097	.00150	-.00022	.03599	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13907	--	--	--	--	--	--
SDev	61.12952	--	--	--	--	--	--
%RSD	.4395712	--	--	--	--	--	--
#1	13950	--	--	--	--	--	--
#2	13863	--	--	--	--	--	--

Method: METTRA Sample Name: DM9R1 Operator: RJG
 Run Time: 10/27/00 23:11:45
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00073	.05826	.01307	.15925	-.00114	79.896	.00033
SDev	.00040	.00851	.00019	.00079	.00004	.353	.00011
%RSD	55.467	14.617	1.4693	.49427	3.2611	.44180	34.233
#1	.00044	.06428	.01320	.15980	-.00111	80.145	.00041
#2	.00102	.05224	.01293	.15869	-.00117	79.646	.00025
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00426	.01461	.10967	13.098	14.331	2.6097	-.00091
SDev	.00005	.00050	.00071	.073	.059	.0111	.00050
%RSD	1.0583	3.4537	.65098	.55717	.41292	.42696	55.237
#1	.00429	.01425	.11017	13.150	14.373	2.6176	-.00127
#2	.00422	.01496	.10916	13.047	14.289	2.6018	-.00055
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00467	.01295	.01304	.01301	-.00211	.00077	-.00019
SDev	.00216	.00312	.00073	.00055	.00222	.00263	.00102
%RSD	46.226	24.063	5.6364	4.2035	105.30	341.17	540.28
#1	.00314	.01074	.01356	.01262	-.00054	-.00109	-.00091
#2	.00620	.01515	.01252	.01340	-.00368	.00263	.00053
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.01060	-.00760	-.00154	.00033	.00089	.12911	
SDev	.00379	.00002	.00125	.00350	.00098	.00074	
%RSD	35.715	.19854	81.107	1074.5	110.91	.57181	
#1	.00792	-.00759	-.00243	-.00215	.00019	.12964	
#2	.01327	-.00761	-.00066	.00280	.00158	.12859	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14154	--	--	--	--	--	--
SDev	38.89087	--	--	--	--	--	--
%RSD	.2747666	--	--	--	--	--	--
#1	14127	--	--	--	--	--	--
#2	14182	--	--	--	--	--	--

Method: METTRA Sample Name: CRI-6 Operator: RJG
 Run Time: 10/27/00 23:15:56
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02104	.36047	.02090	.41511	.00914	10.101	.00991
SDev	.00054	.00418	.00086	.00277	.00015	.012	.00018
%RSD	2.5862	1.1584	4.0997	.66686	1.6485	.11567	1.8232
#1	.02142	.36342	.02151	.41315	.00903	10.093	.01004
#2	.02065	.35752	.02030	.41706	.00924	10.110	.00978
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.03000	.60000	.03000	.60000	.01500	15.000	.01500
Low	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10549	.02061	.05179	.18131	9.7508	.03156	-.00095
SDev	.00102	.00011	.00003	.00853	.0158	.00006	.00027
%RSD	.96797	.55362	.06041	4.7069	.16214	.18934	28.569
#1	.10622	.02069	.05181	.17527	9.7396	.03160	-.00076
#2	.10477	.02053	.05177	.18734	9.7620	.03151	-.00114
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.15000	.03000	.07500	.30000	15.000	.04500	
Low	.05000	.01000	.02500	.10000	5.0000	.01500	
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08077	.00571	.00759	.00696	.12380	.12459	.12433
SDev	.00118	.00242	.00080	.00134	.00194	.00122	.00017
%RSD	1.4636	42.302	10.600	19.260	1.5638	.97655	.13420
#1	.07994	.00400	.00702	.00601	.12517	.12373	.12421
#2	.08161	.00742	.00816	.00791	.12243	.12545	.12445
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.12000			.00900			.18000
Low	.04000			.00300			.06000
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.01134	.01092	.01106	.01999	.10077	.04304	
SDev	.00294	.00168	.00210	.00354	.00038	.00023	
%RSD	25.952	15.389	18.995	17.725	.37862	.54624	
#1	.00926	.00973	.00958	.01749	.10104	.04287	
#2	.01342	.01211	.01255	.02250	.10050	.04321	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.01500	.03000	.15000	.06000	
Low			.00500	.01000	.05000	.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14058	--	--	--	--	--	--
SDev	87.11500	--	--	--	--	--	--
%RSD	.6196740	--	--	--	--	--	--
#1	13997	--	--	--	--	--	--
#2	14120	--	--	--	--	--	--

Method: METTRA Sample Name: ICSA 0057-115-1 Operator: RJG
 Run Time: 10/27/00 23:20:06
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00099	528.78	-.00077	.00162	-.00223	472.28	.00005
SDev	.00026	1.67	.00567	.00013	.00023	4.28	.00011
%RSD	25.854	.31502	737.47	8.1390	10.193	.90602	194.72

#1	.00118	529.96	-.00478	.00172	-.00239	475.31	.00013
#2	.00081	527.60	.00324	.00153	-.00207	469.26	-.00002

Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.00				500.00	
Range		20.000				20.000	

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00085	.00180	.00237	199.78	519.31	.00851	-.00461
SDev	.00015	.00008	.00042	1.07	3.12	.00006	.00148
%RSD	17.851	4.4497	17.570	.53793	.59993	.70701	32.179

#1	.00096	.00186	.00267	200.54	521.51	.00855	-.00566
#2	.00074	.00175	.00208	199.02	517.10	.00847	-.00356

Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value				200.00	500.00		
Range				20.000	20.000		

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00027	-.03680	.01809	-.00019	.00385	.00295	.00325
SDev	.00002	.00449	.00048	.00181	.00522	.00122	.00255
%RSD	7.5951	12.196	2.6444	980.12	135.47	41.260	78.443

#1	-.00025	-.03362	.01843	.00110	.00755	.00381	.00506
#2	-.00028	-.03997	.01776	-.00147	.00016	.00209	.00145

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00662	-.00433	-.00509	-.00911	.00471	.00490
SDev	.00094	.00603	.00371	.00461	.00054	.00007
%RSD	14.261	139.15	72.765	50.531	11.504	1.4173

#1	-.00729	-.00007	-.00247	-.01237	.00433	.00495
#2	-.00595	-.00860	-.00772	-.00586	.00509	.00486

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value						
Range						

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13125	--	--	--	--	--	--
SDev	194.4896	--	--	--	--	--	--
%RSD	1.481862	--	--	--	--	--	--
#1	12987	--	--	--	--	--	--
#2	13262	--	--	--	--	--	--

Method: METTRA Sample Name: ICSAB 0057-104-1 Operator: RJG
 Run Time: 10/27/00 23:24:16
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.22156	529.89	.10207	.52038	.48676	468.67	.90867
SDev	.00053	1.57	.00040	.00074	.00201	1.58	.00422
%RSD	.24007	.29591	.39017	.14291	.41203	.33649	.46445
#1	.22193	528.78	.10235	.51985	.48818	469.78	.91165
#2	.22118	531.00	.10179	.52090	.48534	467.55	.90569
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	500.00	.10000	.50000	.50000	500.00	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48245	.49373	.54279	199.05	516.40	.50081	-.00485
SDev	.00267	.00073	.00033	.19	.97	.00060	.00108
%RSD	.55397	.14761	.06033	.09579	.18769	.12073	22.366
#1	.48434	.49425	.54256	199.18	517.09	.50123	-.00408
#2	.48056	.49322	.54302	198.92	515.72	.50038	-.00562
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.50000	.50000	.50000	200.00	500.00	.50000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.96032	.01084	.06607	.04768	.62689	.63425	.63180
SDev	.00596	.00722	.00123	.00159	.00553	.01072	.00530
%RSD	.62010	66.603	1.8555	3.3254	.88265	1.6893	.83952
#1	.96453	.01594	.06520	.04880	.62298	.64183	.63555
#2	.95611	.00573	.06694	.04656	.63080	.62668	.62805
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	1.0000			.05000			.60000
Range	20.000			20.000			20.000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.04838	.04870	.04859	.09419	.51327	1.0437	
SDev	.00568	.00279	.00003	.00601	.00181	.0048	
%RSD	11.736	5.7380	.05568	6.3844	.35291	.45919	
#1	.05240	.04672	.04861	.08994	.51456	1.0471	
#2	.04437	.05067	.04858	.09844	.51199	1.0403	
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	
Value			.05000	.10000	.50000	1.0000	
Range			20.000	20.000	20.000	20.000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13151	--	--	--	--	--	--
SDev	114.9048	--	--	--	--	--	--
%RSD	.8737280	--	--	--	--	--	--
#1	13070	--	--	--	--	--	--
#2	13232	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-11 Operator: RJG
 Run Time: 10/27/00 23:28:26
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0509	25.279	.51350	2.0461	2.0125	49.906	.48973
SDev	.0019	.047	.00253	.0066	.0056	.059	.00057
%RSD	.17727	.18575	.49285	.32093	.27785	.11856	.11582

#1	1.0523	25.245	.51529	2.0507	2.0165	49.948	.49013
#2	1.0496	25.312	.51171	2.0414	2.0086	49.864	.48933

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0132	2.0059	2.0215	25.020	49.053	1.9943	2.0237
SDev	.0029	.0039	.0034	.010	.007	.0030	.0045
%RSD	.14232	.19518	.16797	.04107	.01330	.15135	.22177

#1	2.0152	2.0086	2.0239	25.028	49.048	1.9964	2.0206
#2	2.0112	2.0031	2.0191	25.013	49.057	1.9921	2.0269

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0066	.50629	.50068	.50255	.51135	.52050	.51746
SDev	.0162	.00127	.00103	.00111	.00048	.00109	.00089
%RSD	.80527	.25113	.20676	.22165	.09433	.20881	.17113

#1	2.0180	.50540	.49995	.50176	.51169	.52127	.51808
#2	1.9951	.50719	.50141	.50334	.51101	.51974	.51683

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51731	.51371	.51491	1.0260	2.0077	2.0557
SDev	.00084	.00127	.00113	.0044	.0083	.0068
%RSD	.16311	.24707	.21897	.42823	.41223	.32932

#1	.51671	.51282	.51411	1.0291	2.0135	2.0605
#2	.51790	.51461	.51571	1.0229	2.0018	2.0510

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.55000	1.1000	2.2000	2.2000
Low			.45000	.90000	1.8000	1.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13822	--	--	--	--	--	--
SDev	23.36974	--	--	--	--	--	--
%RSD	.1690767	--	--	--	--	--	--
#1	13805	--	--	--	--	--	--
#2	13838	--	--	--	--	--	--

Method: METTRA Sample Name: CCB11

Operator: RJG

Run Time: 10/27/00 23:32:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00080	-.03381	-.00030	.00025	-.00043	.03634	.00033
SDev	.00046	.00212	.00119	.00003	.00004	.00014	.00026
%RSD	57.737	6.2550	403.73	12.840	9.0969	.37259	78.695
#1	.00048	-.03232	.00055	.00023	-.00041	.03625	.00052
#2	.00113	-.03531	-.00114	.00027	-.00046	.03644	.00015
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00025	.00005	.00247	.02597	.02991	.00050	.00258
SDev	.00019	.00019	.00034	.00147	.00042	.00002	.00109
%RSD	76.037	360.83	13.683	5.6670	1.4193	4.3218	42.103
#1	.00038	-.00008	.00223	.02493	.02961	.00051	.00335
#2	.00011	.00019	.00271	.02701	.03021	.00048	.00181
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00052	-.00039	.00063	.00029	.00011	.00049	.00037
SDev	.00069	.00159	.00076	.00002	.00165	.00038	.00030
%RSD	131.28	412.31	121.37	8.0662	1463.2	76.118	82.136
#1	.00004	.00074	.00009	.00031	.00128	.00023	.00058
#2	.00101	-.00151	.00116	.00027	-.00106	.00076	.00015
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00274	.00131	-.00004	.00040	-.00215	.00050	
SDev	.00132	.00195	.00174	.00211	.00000	.00009	
%RSD	48.279	149.28	4268.6	526.81	.02335	17.479	
#1	-.00180	.00268	.00119	.00189	-.00215	.00056	
#2	-.00367	-.00007	-.00127	-.00109	-.00215	.00044	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14280	--	--	--	--	--	--
SDev	19.44544	--	--	--	--	--	--
%RSD	.1361744	--	--	--	--	--	--
#1	14294	--	--	--	--	--	--
#2	14266	--	--	--	--	--	--

Method: ILMD4, D		Matrix: S011	Start Time: 0930	SDG:	Balance #: C94817	Reagents: 10ml 1:1 HNO ₃ 0057-114-15 5ml CONC HNO ₃ 0623709A05 Mallinckrodt 10ml 30% H ₂ O ₂ 5240N49AD7 Mallinckrodt 5ml 1:1 HCl 0057-118-1	
Analyst: Cynthia A. [Signature]		Date: 10-25-00	Lot Number:	Lab Lot # (book, page, line): 0014-034-1, 0057-C95-10		Pre	Post
Reviewed by: E. M. Faust		Date: 10-25-00	Comments:	Color	Clarity	Texture	Artifacts
Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Comments	Pre	Post	Pre	Post
1. DNNGD	1.00g	200ml	OK 10-24-00 +2ml MSB2REV	BT	OK 10-24-00	M	S, D
2. DNNGDX							
3. DNNGDS							
4. DNNGF							
5. DNPLAB	1ml H ₂ O						
6. DNPLAC	1.0g DNNGD		Lot # 245				
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							

Digestate(s)	Date	Time	Analyst	Location	Digestate(s) Received	Date	Time	Analyst	Location	Digestate(s) Relinquished	Date	Time	Analyst	Location
ALL ABOVE	10-25-00	1900	CAR	MEMBI	MEMBI	10-25-00	1910	CAR	MEMBI					
ALL ABOVE	10-21-00	1735	RB	MEMBI	MEMBI	10-21-00	1830	RB	MEMBI					

Hot Plate/Block Temp	Correction Factor
#5 / 95°C	-0.7°C

Color	Color
R=Red	Y=Yellow
BL=Blue	O=Orange
BR=Brown	V=Violet
BLK=Black	P=Pink
	W=White
	GY=Gray
	GN=Green
	C=Colorless

REQUESTED BY: RIZZOC

METHOD: ON Inductively Coupled Plasma(Trace)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SME#	SFX	MATRIX DESCRIPTION	QTY	
										RCVD	REQD
9D,E	DNNGD	---	276906	061313	A-46-ON	C0J240227	001		SOLID	0	1 1
9D,E	DNNGF	---	276907	061313	A-46-ON	C0J240227	002		SOLID	0	1 1

RELINQUISHED BY

CMA
Cynthia A. [Signature]

RECEIVED BY

Cynthia A. [Signature]
CMA

DATE/TIME

10-25-00 0930

10-25-00

GENERAL CHEMISTRY DATA

CUMMINGS-RITER CONSULTANTS INC

Client Sample ID: PXS-21

General Chemistry

Lot-Sample #...: COJ240227-001 Work Order #...: DNNGD Matrix.....: SOLID
Date Sampled...: 10/23/00 Date Received..: 10/24/00
% Moisture.....: 9.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	9.2		%	ICLP ILM04.0	10/25-10/26/00	0299317

Dilution Factor: 1 MS Run #.....: 0299128

CUMMINGS-RITER CONSULTANTS INC

Client Sample ID: PXS-22

General Chemistry

Lot-Sample #...: COJ240227-002 Work Order #...: DNNGF Matrix.....: SOLID
Date Sampled...: 10/23/00 Date Received...: 10/24/00
% Moisture.....: 11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	11.0		%	ICLP ILM04.0	10/25-10/26/00	0299317
		Dilution Factor: 1		MS Run #.....: 0299128		

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: C0J240227

Work Order #....: DNNGD-SMP
DNNGD-DUP

Matrix.....: SOLID

Date Sampled....: 10/23/00

Date Received...: 10/24/00

% Moisture.....: 9.2

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u> <u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Percent Moisture	9.2	10.5	%	12	(0-0.0)	ICLP ILM04.0	10/25-10/26/00	0299317

SD Lot-Sample #: C0J240227-001

Dilution Factor: 1

Prep Date.....: 0299128 Analysis Date...:

Prep Batch #...:

10019

STL Pittsburgh
TOTAL SOLIDS/PERCENT MOISTURE LOG SHEET

Lot No. Lot No. Lot No. Batch No. Analyst: CHATEAUDE
 C05240229 · C05210128 · C05240133 · 0299317 In: Date 10/25/00 Time 0915
 C05240226 · C05180163 · C05240239 · 0299320 Out: Date 10/26/00 Time 0500
 C05240245 · C05180168 · C05240109 · 0299322 Balance ID #: C94817
 C05240253 · C05180174 · C05240277 · 0299324 Oven Temp: 103°C ± 2°C
 C05240220 · C05240126 · C05160197 · 0299330

Additional Lots and Batches on Pg 443A

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE	SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
C05240227001	29	1.07	7.45	6.86	C05180163013	98	1.05	6.33	5.72
-001D	97	1.07	8.80	6.20	C05180163001	106	1.05	6.62	5.79
-002	101	1.06	8.95	8.08	-001D	46	1.05	6.56	5.65
C05240226001	45	1.04	6.81	6.40	-002	48	1.06	7.92	6.87
-002	32	1.05	7.73	7.38	-003	82	1.07	6.11	4.94
-003	34	1.05	8.50	7.53	-004	93	1.08	6.47	5.85
C05240245001	105	1.05	6.57	5.60	-005	62	1.07	6.92	6.65
-001D	94	1.06	6.44	5.52	-006	1151	1.10	5.72	3.60
-002	35	1.08	6.47	5.38	-007	86	1.06	6.05	4.82
-003	103	1.08	5.84	4.72	-008	6	1.18	6.73	5.76
-004	21C	1.12	6.25	5.26	-009	42	1.05	6.41	5.31
C05240236001	80	1.06	6.25	5.50	-010	39	1.05	6.38	5.51
-002	14	1.07	6.52	5.76	-011	102	1.04	6.45	5.58
-003	100	1.07	6.00	5.28	-012	67	1.08	6.32	5.37
-004	15	1.04	8.20	7.32	-013	13	1.06	8.07	6.78
-005	72	1.05	6.04	5.29	-014	71	1.07	6.01	5.24
-006	28	1.07	5.69	5.00	C05180174001	77	1.05	6.25	3.65
-007	89	1.06	7.10	6.48	-002	9	1.06	5.84	1.41
-008	44	1.04	6.67	5.63	C05240126001	90	1.06	6.87	6.24
C05240220001	116	1.03	5.93	4.89	-001D	84	1.06	6.43	5.82
-002	50	1.06	2.38	2.29	-002	47	1.04	8.03	7.37
C05210128001	E1	1.12	7.32	6.00	C05240133001	69	1.06	6.11	5.74
-002	18	1.07	8.26	6.82	-002	V	1.11	6.18	5.64
C05180163001	12	1.07	7.22	5.03	-003	36	1.06	6.44	5.70
-001D	40	1.06	6.42	4.42	C05240239001	66	1.04	7.45	6.77
-002	XX	1.13	5.00	4.36	-002	4	1.07	5.90	4.89
-003	65	1.07	6.40	5.55	-003	25	1.05	9.41	7.82
-004	92	1.07	6.02	5.66	C05240109001	79	1.08	6.55	5.78
-005	75	1.09	5.87	5.22	-002	56	1.09	5.71	5.09
-006	21	1.05	7.14	6.70	-003	55	1.09	10.48	5.56
-007	59	1.06	NO SR AVAILABLE		-004	41	1.03	8.31	7.01
-008	20	1.08	6.91	6.38	-005	52	1.04	5.87	5.17
-009	1	1.04	6.11	4.19	-006	78	1.06	6.25	5.36
-010	61	1.07	6.05	5.40	C05240277001	33	1.06	6.07	5.55
-011	85	1.08	7.26	6.50	-002	3	1.06	6.18	5.30
-012	2	1.06	6.47	5.65	-003	91	1.05	5.90	5.05

90. MOIST
9:15
9:15
15
10:25 AM

TS
9:15
11:00
TS

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STL Pittsburgh
TOTAL SOLIDS/PERCENT MOISTURE LOG SHEET

Lot No. Lot No. Lot No. Batch No. Analyst: C. Ucheje
COS240232 _____ 0299335 In: Date 10-25-00 Time 11:00
COS210136 _____ 0299338 Out: Date 10-26-00 Time 0500
COS240275 _____ _____ Balance ID #: C94817
_____ _____ _____ Oven Temp: 103°C ± 2°C

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE	SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
<u>COS240277-004</u>	<u>181</u>	<u>1.13</u>	<u>6.03</u>	<u>4.88</u>					
<u>-005</u>	<u>88</u>	<u>1.08</u>	<u>6.48</u>	<u>5.50</u>					
<u>-006</u>	<u>63</u>	<u>1.09</u>	<u>6.03</u>	<u>5.22</u>					
<u>COS160197003</u>	<u>108</u>	<u>1.08</u>	<u>6.12</u>	<u>5.23</u>					
<u>-004</u>	<u>21B</u>	<u>1.12</u>	<u>7.55</u>	<u>6.09</u>					
<u>-005</u>	<u>11</u>	<u>1.05</u>	<u>6.09</u>	<u>5.09</u>					
<u>-006</u>	<u>CA</u>	<u>1.13</u>	<u>8.34</u>	<u>6.55</u>					
<u>COS240232-001</u>	<u>76</u>	<u>1.08</u>	<u>6.85</u>	<u>5.53</u>					
<u>-002</u>	<u>10</u>	<u>1.09</u>	<u>6.76</u>	<u>5.49</u>					
<u>COS210136-001</u>	<u>104</u>	<u>1.07</u>	<u>6.26</u>	<u>5.77</u>					
<u>-002</u>	<u>96</u>	<u>1.05</u>	<u>5.96</u>	<u>5.26</u>					
<u>-003</u>	<u>38</u>	<u>1.09</u>	<u>7.61</u>	<u>6.77</u>					
<u>-004</u>	<u>8</u>	<u>1.10</u>	<u>6.28</u>	<u>5.61</u>					
<u>COS240275-001</u>	<u>83</u>	<u>1.07</u>	<u>7.18</u>	<u>6.16</u>					
<u>-002</u>	<u>19</u>	<u>1.10</u>	<u>7.86</u>	<u>7.03</u>					

TS
11:00
↓

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0010019
 TESTED: CLL 10/25/00
 CHECKED: *UMF* 10-26-00

CREATED: 10/25/00 1:20:29 PM

REVISED: 10/26/00 8:49:02 AM

COMMENTS:

C0J240227 C0J240226 C0J240245 C0J240253 C0J240220 C0J210128 C0J180163 C0J180168 C0J180174 C0J240126 C0J240133 C0J240239 C0J240109

C0J240277 C0J160197 C0J240232 C0J210136 C0J240275

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.	TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0J240227	001	SMP 29.	1.07	7.45	6.86	9:15	5:00	0.59	9.248	90.752
C0J240227	001D	SMP 74	1.07	6.8	6.2	9:15	5:00	0.6	10.471	89.529
C0J240227	002	SMP 101	1.06	8.95	8.08	9:15	5:00	0.87	11.027	88.973
C0J240226	001	SMP 45	1.04	6.81	6.4	9:15	5:00	0.41	7.106	92.894
C0J240226	002	SMP 32	1.05	7.73	7.38	9:15	5:00	0.35	5.24	94.76
C0J240226	003	SMP 34	1.05	8.5	7.53	9:15	5:00	0.97	13.02	86.98
C0J240245	001	SMP 105	1.05	6.57	5.6	9:15	5:00	0.97	17.572	82.428
C0J240245	001D	SMP 94	1.06	6.44	5.52	9:15	5:00	0.92	17.1	82.9
C0J240245	002	SMP 35	1.08	6.41	5.38	9:15	5:00	1.03	19.325	80.675
C0J240245	003	SMP 103	1.08	5.84	4.72	9:15	5:00	1.12	23.529	76.471
C0J240245	004	SMP 21C	1.12	6.25	5.26	9:15	5:00	0.99	19.298	80.702
C0J240253	001	SMP 80	1.06	6.25	5.5	9:15	5:00	0.75	14.451	85.549
C0J240253	002	SMP 14	1.07	6.52	5.76	9:15	5:00	0.76	13.945	86.055
C0J240253	003	SMP 100	1.07	6	5.28	9:15	5:00	0.72	14.604	85.396
C0J240253	004	SMP 15	1.04	8.2	7.32	9:15	5:00	0.88	12.29	87.71
C0J240253	005	SMP 72	1.05	6.04	5.29	9:15	5:00	0.75	15.03	84.97
C0J240253	006	SMP 28	1.07	5.69	5	9:15	5:00	0.69	14.935	85.065
C0J240253	007	SMP 89	1.06	7.1	6.48	9:15	5:00	0.62	10.265	89.735

STL - Pittsburgh WATER CONTENT SHEET

IEEET NUM 0010019
 TESTED: CLL 10/25/00
 CHECKED: *SUF* 10-26-00

CREATED: 10/25/00 1:20:29 PM
 REVISED: 10/26/00 8:49:02 AM

COMMENTS:

C0J240227 C0J240226 C0J240245 C0J240253 C0J240220 C0J210128 C0J180163 C0J180168 C0J180174 C0J240126 C0J240133 C0J240239 C0J2401

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.	TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0J240253	008	SMP 44	1.04	6.67	5.63	9:15	5:00	1.04	18.472	81.528
C0J240220	001	SMP 16	1.03	5.93	4.89	9:15	5:00	1.04	21.224	78.776
C0J240220	002	SMP 50	1.06	2.38	2.29	9:15	5:00	0.09	6.818	93.182
C0J210128	001	SMP E1	1.12	7.32	6	9:15	5:00	1.32	21.29	78.71
C0J210128	002	SMP 18	1.07	8.26	6.82	9:15	5:00	1.44	20.028	79.972
C0J180163	001	SMP 12	1.07	7.22	5.03	9:15	5:00	2.19	35.61	64.39
C0J180163	001D	SMP 40	1.06	6.42	4.42	9:15	5:00	2	37.313	62.687
C0J180163	002	SMP XX	1.13	5.8	4.36	9:15	5:00	1.44	30.835	69.165
C0J180163	003	SMP 65	1.07	6.4	5.55	9:15	5:00	0.85	15.947	84.053
C0J180163	004	SMP 92	1.07	6.02	5.66	9:15	5:00	0.36	7.273	92.727
C0J180163	005	SMP 75	1.09	5.87	5.22	9:15	5:00	0.65	13.598	86.402
C0J180163	006	SMP 21	1.05	7.14	6.7	9:15	5:00	0.44	7.225	92.775
C0J180163	008	SMP 20	1.08	6.91	6.38	9:15	5:00	0.53	9.091	90.909
C0J180163	009	SMP 1	1.04	6.11	4.19	9:15	5:00	1.92	37.87	62.13
C0J180163	010	SMP 61	1.07	6.05	5.4	9:15	5:00	0.65	13.052	86.948
C0J180163	011	SMP 85	1.08	7.26	6.5	9:15	5:00	0.76	12.298	87.702
C0J180163	012	SMP 2	1.06	6.47	5.65	9:15	5:00	0.82	15.157	84.843
C0J180168 ³	013	SMP 98	1.05	6.33	5.72	9:15	5:00	0.61	11.553	88.447

64.39
62.790

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM: 0010019
 TESTED: CLL 10/25/00
 CHECKED: *Ruf* 10-26-00

CREATED: 10/25/00 1:20:29 PM

REVISED: 10/26/00 8:49:02 AM

COMMENTS:

C0J240227 C0J240226 C0J240245 C0J240253 C0J240220 C0J210128 C0J180163 C0J180168 C0J180174 C0J240126 C0J240133 C0J240239 C0J2401

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.	TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0J180168	001	SMP 106	1.05	6.62	5.79	9:15	5:00	0.83	14.901	85.099
C0J180168	001D	SMP 46	1.05	6.56	5.65	9:15	5:00	0.91	16.515	83.485 <i>APP. 90%</i>
C0J180168	002	SMP 48	1.06	7.92	6.87	9:15	5:00	1.05	15.306	84.694
C0J180168	003	SMP 82	1.07	6.11	4.94	9:15	5:00	1.17	23.214	76.786
C0J180168	004	SMP 93	1.08	6.47	5.85	9:15	5:00	0.62	11.503	88.497
C0J180168	005	SMP 62	1.07	6.92	6.65	9:15	5:00	0.27	4.615	95.385
C0J180168	006	SMP 1151	1.1	5.72	3.6	9:15	5:00	2.12	45.887	54.113
C0J180168	007	SMP 86	1.06	6.05	4.82	9:15	5:00	1.23	24.649	75.351
C0J180168	008	SMP 6	1.18	6.73	5.76	9:15	5:00	0.97	17.477	82.523
C0J180168	009	SMP 42	1.05	6.41	5.31	9:15	5:00	1.1	20.522	79.478
C0J180168	010	SMP 39	1.05	6.38	5.51	9:15	5:00	0.87	16.323	83.677
C0J180168	011	SMP 102	1.04	6.45	5.58	9:15	5:00	0.87	16.081	83.919
C0J180168	012	SMP 67	1.08	6.32	5.37	9:15	5:00	0.95	18.13	81.87
C0J180168	013	SMP 13	1.06	8.07	6.78	9:15	5:00	1.29	18.402	81.598
C0J180168	014	SMP 71	1.07	6.01	5.24	9:15	5:00	0.77	15.587	84.413
C0J180174	001	SMP 77	1.05	6.25	3.65	9:15	5:00	2.6	50	50
C0J180174	002	SMP 9	1.06	5.84	1.41	9:15	5:00	4.43	92.678	7.322
C0J240126	001	SMP 90	1.06	6.87	6.24	9:15	5:00	0.63	10.843	89.157 <i>APP. 80%</i>

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0010019
 TESTED: CLL 10/25/00
 CHECKED: *mf* 10-26-00

CREATED: 10/25/00 1:20:29 PM

REVISED: 10/26/00 8:49:02 AM

COMMENTS:

C0J240227 C0J240226 C0J240245 C0J240253 C0J240220 C0J210128 C0J180163 C0J180168 C0J180174 C0J240126 C0J240133 C0J240239 C0J2401

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.	TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0J240126	001D	SMP 84	1.06	6.43	5.82	9:15	5:00	0.61	11.359	88.641
C0J240126	002	SMP 47	1.04	8.03	7.37	9:15	5:00	0.66	9.442	90.558
C0J240133	001	SMP 69	1.06	6.11	5.74	9:15	5:00	0.37	7.327	92.673
C0J240133	002	SMP V	1.11	6.18	5.64	9:15	5:00	0.54	10.651	89.349
C0J240133	003	SMP 36	1.06	6.44	5.7	9:15	5:00	0.74	13.755	86.245
C0J240239	001	SMP 66	1.04	7.45	6.77	9:15	5:00	0.68	10.608	89.392
C0J240239	002	SMP 4	1.07	5.9	4.89	9:15	5:00	1.01	20.911	79.089
C0J240239	003	SMP 25	1.05	9.41	7.82	9:15	5:00	1.59	19.019	80.981
C0J240109	001	SMP 79	1.08	6.55	5.78	9:15	5:00	0.77	14.077	85.923
C0J240109	002	SMP 56	1.09	5.77	5.09	9:15	5:00	0.68	14.53	85.47
C0J240109	003	SMP 55	1.09	6.48	5.56	9:15	5:00	0.92	17.069	82.931
C0J240109	004	SMP 41	1.03	8.31	7.01	9:15	5:00	1.3	17.857	82.143
C0J240109	005	SMP 52	1.04	5.87	5.17	9:15	5:00	0.7	14.493	85.507
C0J240109	006	SMP 78	1.06	6.25	5.36	9:15	5:00	0.89	17.148	82.852
C0J240277	001	SMP 33	1.06	6.07	5.55	9:15	5:00	0.52	10.379	89.621
C0J240277	002	SMP 3	1.06	6.18	5.3	9:15	5:00	0.88	17.187	82.813
C0J240277	003	SMP 91	1.05	5.9	5.05	9:15	5:00	0.85	17.526	82.474
C0J240277	004	SMP 181	1.13	6.03	4.88	9:15	5:00	1.15	23.469	76.531

R11 38

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0010019		
TESTED:	CLL	10/25/00
CHECKED:	<i>quf</i>	10-26-00

CREATED:	10/25/00 1:20:29 PM
REVISED:	10/26/00 8:49:02 AM

COMMENTS:

C0J240227 C0J240226 C0J240245 C0J240253 C0J240220 C0J210128 C0J180163 C0J180168 C0J180174 C0J240126 C0J240133 C0J240239 C0J2401

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.	TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0J240277	005	SMP 88	1.08	6.48	5.5	9:15	5:00	0.98	18.148	81.852
C0J240277	006	SMP 63	1.09	6.03	5.22	9:15	5:00	0.81	16.397	83.603
C0J160197	003	SMP 108	1.08	6.12	5.23	9:15	5:00	0.89	17.659	82.341
C0J160197	004	SMP 21B	1.12	7.55	6.09	9:15	5:00	1.46	22.706	77.294
C0J160197	005	SMP 11	1.05	6.09	5.09	9:15	5:00	1	19.841	80.159
C0J160197	006	SMP CA	1.13	8.34	6.55	9:15	5:00	1.79	24.827	75.173
240232	001	SMP 76	1.08	6.85	5.53	9:15	5:00	1.32	22.877	77.123
C0J240232	001D	SMP 10	1.09	6.76	5.48	9:15	5:00	1.28	22.575	77.425
C0J210136	001	SMP 104	1.07	6.26	5.77	9:15	5:00	0.49	9.441	90.559
C0J210136	002	SMP 96	1.05	5.96	5.26	9:15	5:00	0.7	14.257	85.743
C0J210136	003	SMP 38	1.09	7.61	6.77	9:15	5:00	0.84	12.883	87.117
C0J210136	004	SMP 8	1.1	6.28	5.61	9:15	5:00	0.67	12.934	87.066
C0J240275	001	SMP 83	1.07	7.18	6.16	9:15	5:00	1.02	16.694	83.306
C0J240275	002	SMP 19	1.1	7.86	7.03	9:15	5:00	0.83	12.278	87.722

RPD 399/10

REQUESTED BY: LOHEYDEC

METHOD: OV Moisture, Percent (CLP)

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX DESCRIPTION</u>	<u>QTY RCVD</u>	<u>QTY REQD</u>
9D,E	DNNGD-1-AA	___	276818	061313	A-88-OV	C0J240227	001		SOLID	1	1
9D,E	DNNGF-1-AA	___	276819	061313	A-88-OV	C0J240227	002		SOLID	1	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

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[Handwritten signature]

[Handwritten signature]
[Handwritten signature]

10/25/00 0715
10/25/00 0920

REQUESTED BY: LOHEYDEC

METHOD: WM Moisture, Percent (160.3)

STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX	QTY	QTY
		CNTR#							DESCRIPTION	RCVD	REQD
9D,E	DNNFX-1-AA	___	276820	413462	A-88-WM	C0J240226	001		SOLID	1	1
9D,E	DNNF4-1-AA	___	276821	413462	A-88-WM	C0J240226	002		SOLID	1	1
9D,E	DNNF6-1-AA	___	276822	413462	A-88-WM	C0J240226	003		SOLID	1	1

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***** END OF REPORT *****

REQUESTED BY: LOHEYDEC

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
6C.D	DNCEQ-1-AA	___	276839	054156	A-88-SM	C0J180163	001		SOLID	0	1 1
6C.D	DNCET-1-AH	___	276840	054156	A-88-SM	C0J180163	002		SOLID	0	1 1
6C.D	DNCE7-1-AH	___	276841	054156	A-88-SM	C0J180163	003		SOLID	0	1 1
6C.D	DNCFC-1-AH	___	276842	054156	A-88-SM	C0J180163	004		SOLID	0	1 1
6C.D	DNCFH-1-AH	___	276843	054156	A-88-SM	C0J180163	005		SOLID	0	1 1
6C.D	DNCFQ-1-AH	___	276844	054156	A-88-SM	C0J180163	006		SOLID	0	1 1
6C.D	DNCFV-1-AH	___	276845	054156	A-88-SM	C0J180163	007		SOLID	0	1 1
6C.D	DNCFX-1-AH	___	276846	054156	A-88-SM	C0J180163	008		SOLID	0	1 1
6C.D	DNCF4-1-AH	___	276847	054156	A-88-SM	C0J180163	009		SOLID	0	1 1
6C.D	DNCF8-1-AH	___	276848	054156	A-88-SM	C0J180163	010		SOLID	0	1 1
	DNCGE-1-AH	___	276849	054156	A-88-SM	C0J180163	011		SOLID	0	1 1
6C.D	DNCGV-1-AH	___	276850	054156	A-88-SM	C0J180163	012		SOLID	0	1 1
6C.D	DNCG0-1-AH	___	276851	054156	A-88-SM	C0J180163	013		SOLID	0	1 1
6C.D	DNCG7-1-AA	___	276852	054156	A-88-SM	C0J180168	001		SOLID	0	1 1
6C.D	DNCHE-1-AE	___	276853	054156	A-88-SM	C0J180168	002		SOLID	0	1 1
6C.D	DNCHF-1-AE	___	276854	054156	A-88-SM	C0J180168	003		SOLID	0	1 1
6C.D	DNCHK-1-AE	___	276855	054156	A-88-SM	C0J180168	004		SOLID	0	1 1
6C.D	DNCHM-1-AE	___	276856	054156	A-88-SM	C0J180168	005		SOLID	0	1 1
6C.D	DNCHQ-1-AE	___	276857	054156	A-88-SM	C0J180168	006		SOLID	0	1 1
6C.D	DNCHT-1-AE	___	276858	054156	A-88-SM	C0J180168	007		SOLID	0	1 1
6C.D	DNCHV-1-AE	___	276859	054156	A-88-SM	C0J180168	008		SOLID	0	1 1
6C.D	DNCHW-1-AE	___	276860	054156	A-88-SM	C0J180168	009		SOLID	0	1 1
6C.D	DNCH2-1-AE	___	276861	054156	A-88-SM	C0J180168	010		SOLID	0	1 1
6	DNCH8-1-AE	___	276862	054156	A-88-SM	C0J180168	011		SOLID	0	1 1
6C.D	DNCJA-1-AE	___	276863	054156	A-88-SM	C0J180168	012		SOLID	0	1 1
6C.D	DNCJE-1-AE	___	276864	054156	A-88-SM	C0J180168	013		SOLID	0	1 1

Control #s not available

REQUESTED BY: LOHEYDEC

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX	QTY	QTY	
		CNTR#							DESCRIPTION	RCVD	REQD	
6C,D	DNCJG-1-AE	___ ___ ___	276865	054156	A-88-SM	C0J180168	014		SOLID	0	1	1
6C,D	DNCJX-1-AA	___ ___ ___	276866	054156	A-88-SM	C0J180174	001		SOLID	0	1	1
6C,D	DNCJ1-1-AF	___ ___ ___	276867	054156	A-88-SM	C0J180174	002		SOLID	0	1	1
9B, CLP1	DNKCP-1-AA	___ ___ ___	276837	039108	A-88-SM	C0J210128	001		SOLID	0	1	1
9B, CLP1	DNKCR-1-AM	___ ___ ___	276838	039108	A-88-SM	C0J210128	002		SOLID	0	1	1
9D,E	DNNEV-1-AA	___ ___ ___	276835	378644	A-88-SM	C0J240220	001		SOLID	0	2	1
9D,E	DNNEX-1-AA	___ ___ ___	276836	378644	A-88-SM	C0J240220	002		SOLID	0	1	1
9D,C	DNNLN-1-AA	___ ___ ___	276823	020247	A-88-SM	C0J240245	001		SOLID	0	3	1
9D,C	DNNLR-1-AA	___ ___ ___	276824	020247	A-88-SM	C0J240245	002		SOLID	0	3	1
9D,C	DNNLW-1-AA	___ ___ ___	276825	020247	A-88-SM	C0J240245	003		SOLID	0	3	1
	DNNLO-1-AA	___ ___ ___	276826	020247	A-88-SM	C0J240245	004		SOLID	0	3	1
9D,E CLP1	DNNN3-1-AA	___ ___ ___	276827	020247	A-88-SM	C0J240253	001		SOLID	0	3	1
9D,E	DNNN5-1-AA	___ ___ ___	276828	020247	A-88-SM	C0J240253	002		SOLID	0	3	1
9D,E	DNNN7-1-AA	___ ___ ___	276829	020247	A-88-SM	C0J240253	003		SOLID	0	3	1
9D,E	DNNN9-1-AA	___ ___ ___	276830	020247	A-88-SM	C0J240253	004		SOLID	0	3	1
9D,E	DNNPC-1-AA	___ ___ ___	276831	020247	A-88-SM	C0J240253	005		SOLID	0	3	1
9D,E	DNNPD-1-AA	___ ___ ___	276832	020247	A-88-SM	C0J240253	006		SOLID	0	3	1
9D,E	DNNPE-1-AA	___ ___ ___	276833	020247	A-88-SM	C0J240253	007		SOLID	0	3	1
9D,E	DNNPF-1-AA	___ ___ ___	276834	020247	A-88-SM	C0J240253	008		SOLID	0	3	1

REQUESTED BY: LOHEYDEC

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u>	<u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>QTY</u>	<u>RCVD</u>	<u>REQD</u>
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REQUESTED BY: LOHEYDEC

ML MOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
5F CLP1	DM8Q8-1-AA	___	276993	061874	A-88-SM	C0J160197	003		SOLID	0	3 1
5F CLP1	DM8Q9-1-AJ	___	276994	061874	A-88-SM	C0J160197	004		SOLID	0	3 1
5F CLP1	DM8RA-1-AJ	___	276995	061874	A-88-SM	C0J160197	005		SOLID	0	3 1
5F CLP1	DM8RD-1-AR	___	276996	061874	A-88-SM	C0J160197	006		SOLID	0	3 1
9B,C CLP1	DNKC9-1-AA	___	276997	061874	A-88-SM	C0J210136	001		SOLID	0	3 1
9B,C CLP1	DNKDM-1-AJ	___	276998	061874	A-88-SM	C0J210136	002		SOLID	0	3 1
9B,C CLP1	DNKDQ-1-AJ	___	276999	061874	A-88-SM	C0J210136	003		SOLID	0	2 1
9B,C CLP1	DNKDW-1-AJ	___	277000	061874	A-88-SM	C0J210136	004		SOLID	0	3 1
9C CLP1	DNL6Q-1-AA	___	276980	045524	A-88-SM	C0J240109	001		SOLID	0	6 1
9C CLP1	DNL6X-1-AG	___	276981	045524	A-88-SM	C0J240109	002		SOLID	0	6 1
9C CLP1	DNL60-1-AG	___	276982	045524	A-88-SM	C0J240109	003		SOLID	0	6 1
9C CLP1	DNL63-1-AG	___	276983	045524	A-88-SM	C0J240109	004		SOLID	0	6 1
9C CLP1	DNL67-1-AG	___	276984	045524	A-88-SM	C0J240109	005		SOLID	0	6 1
9C CLP1	DNL69-1-AG	___	276985	045524	A-88-SM	C0J240109	006		SOLID	0	6 1
9C,D CLP1	DNMCD-1-AA	___	276975	039108	A-88-SM	C0J240126	001		SOLID	0	2 1
9C,D CLP1	DNMCE-1-AA	___	276976	039108	A-88-SM	C0J240126	002		SOLID	0	1 1
9C,D CLP1	DNMGL-1-AA	___	276977	039108	A-88-SM	C0J240133	001		SOLID	0	2 1
9C,D CLP1	DNMGQ-1-AA	___	276978	039108	A-88-SM	C0J240133	002		SOLID	0	2 1
9C,D CLP1	DNMGX-1-AA	___	276979	039108	A-88-SM	C0J240133	003		SOLID	0	2 1
9D,E CLP1	DNNG8-1-AA	___	276992	009072	A-88-SM	C0J240232	001		SOLID	0	4 1
9E CLP1	DNN3W-1-AA	___	277001	061874	A-88-SM	C0J240275	001		SOLID	0	3 1
9E CLP1	DNN31-1-AJ	___	277002	061874	A-88-SM	C0J240275	002		SOLID	0	3 1
10A CLP1	DNN4C-1-AA	___	276986	045524	A-88-SM	C0J240277	001		SOLID	0	4 1
10A CLP1	DNN4D-1-AG	___	276987	045524	A-88-SM	C0J240277	002		SOLID	0	4 1
10A CLP1	DNN4E-1-AG	___	276988	045524	A-88-SM	C0J240277	003		SOLID	0	4 1
10A CLP1	DNN4G-1-AG	___	276989	045524	A-88-SM	C0J240277	004		SOLID	0	4 1

REQUESTED BY: LOHEYDEC

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
10A CLP1	DNN4H-1-AG	---	276990	045524	A-88-SM	C0J240277	005		SOLID	0	4 1
10A CLP1	DNN4K-1-AA	---	276991	045524	A-88-SM	C0J240277	006		SOLID	0	1 1

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 102500 1115

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