Southeast ACCUTEST Laboratories

07/28/05

Technical Report for

Tetra Tech NUS

Former American Beryllium, Sarasota, FL

N1075

Accutest Job Number: F33504

Sampling Date: 07/25/05

Report to:

Total number of pages in report: **44**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

Sections: 1 2 3 4 5

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Accutest Laboratories

Sample Summary

Tetra Tech NUS

Job No: F33504

Former American Beryllium, Sarasota, FL
Project No: N1075

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F33504-1	07/25/05	10:45	SRM	07/26/05	AQ	Ground Water	TT-MW-125

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-MW-125		
Lab Sample ID:	F33504-1	Date Sampled:	07/25/05
Matrix:	AQ - Ground Water	Date Received:	07/26/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Former American Beryllium, Sarasota, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J016894.D	1	07/27/05	MM	n/a	n/a	VJ704
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	24.1	25	5.0	ug/l	I
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	ug/l	
67-66-3	Chloroform	1.8	1.0	0.50	ug/l	
75-15-0	Carbon disulfide	1.0 U	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	ug/l	
354-23-4	1,2-Dichlorotrifluoroethane	0.50 U	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	0.40 U	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.30 U	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.30 U	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	ug/l	
591-78-6	2-Hexanone	2.5 U	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	2.5 U	5.0	2.5	ug/l	
79-20-9	Methyl Acetate	5.0 U	10	5.0	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-MW-125		
Lab Sample ID:	F33504-1	Date Sampled:	07/25/05
Matrix:	AQ - Ground Water	Date Received:	07/26/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Former American Beryllium, Sarasota, FL		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-83-9	Methyl bromide	1.0 U	2.0	1.0	ug/l	
74-87-3	Methyl chloride	1.0 U	2.0	1.0	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.5 U	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.30 U	1.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	0.60 U	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	1.0 U	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		86-115%
17060-07-0	1,2-Dichloroethane-D4	110%		73-126%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	104%		83-119%

CAS No.	Tentatively Identified Compounds [b]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) CCV outside of control limits; results may be biased low.
(b) No TICs detected.

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-MW-125		
Lab Sample ID:	F33504-1	Date Sampled:	07/25/05
Matrix:	AQ - Ground Water	Date Received:	07/26/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Former American Beryllium, Sarasota, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F010528.D	1	07/27/05	NJ	07/26/05	OP13957	SF589
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	2.1 U	5.3	2.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		19-90%
4165-62-2	Phenol-d5	23%		10-68%
118-79-6	2,4,6-Tribromophenol	82%		36-137%
4165-60-0	Nitrobenzene-d5	61%		49-119%
321-60-8	2-Fluorobiphenyl	64%		45-118%
1718-51-0	Terphenyl-d14	79%		46-135%

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F33504
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Tetra Tech
ADDRESS: 5421 Beaumont Center Blvd #660
CITY: Tampa STATE: FL ZIP: 33634
SEND REPORT TO:
PHONE # 813-806-0202 / Paul Calligan

FACILITY INFORMATION

PROJECT NAME: Former American Beryllium
LOCATION: Sarasota, FL
PROJECT NO. N1075
FAX # 813-806-0405

ANALYTICAL INFORMATION

SPLP Include Geos, TICs
8270 1-4 Dioxane Only

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

LAB USE ONLY

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	HNO3	H2SO4	NONE	ANALYTICAL INFORMATION	LAB USE ONLY
1	TT-MW-125	7-25-05	1045	SLM	GW	5	X				3 2	

SLM

DATA TURNAROUND INFORMATION

- ☐ STANDARD
- ☐ 48 HOUR RUSH
- ☑ 24 HOUR EMERGENCY
- ☐ OTHER _____

APPROVED BY: Sue Bell
ASAP!

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY) _____

COMMENTS/REMARKS

TAT Rush ASAP!

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:
S. McClure	7/25/05 1405	1. [illegible] 7/25/05 1405
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.
RELINQUISHED BY: 2. [illegible] 7/25/05	DATE TIME: 1840 7-26-05	RECEIVED BY: 2. Shawn Carson
RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.

SEAL # _____ PRESERVE WHERE APPLICABLE ☐ ON ICE ☐ TEMPERATURE 2.4 C

F33504: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F33504 CLIENT: Tetra Tech PROJECT: Form. American Beryllium

DATE/TIME RECEIVED: 7-25-05/ 18:40 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.4

METHOD OF DELIVERY: FEDEX UPS (ACCUTEST COURIER) GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: _____

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE Steven Cream/ 7-25-05 TECHNICIAN SIGNATURE/DATE _____

ASBD06/22/05

F33504: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ704-MB	J016878.D	1	07/27/05	MM	n/a	n/a	VJ704

The QC reported here applies to the following samples: Method: SW846 8260B

F33504-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
354-23-4	1,2-Dichlorotrifluoroethane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
79-20-9	Methyl Acetate	ND	10	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ704-MB	J016878.D	1	07/27/05	MM	n/a	n/a	VJ704

The QC reported here applies to the following samples: Method: SW846 8260B

F33504-1

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	86-115%
17060-07-0	1,2-Dichloroethane-D4	102%	73-126%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	105%	83-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ704-BS	J016877.D	1	07/27/05	MM	n/a	n/a	VJ704

The QC reported here applies to the following samples: Method: SW846 8260B

F33504-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	107	86	44-142
71-43-2	Benzene	25	25.6	102	80-120
75-27-4	Bromodichloromethane	25	25.9	104	75-120
75-25-2	Bromoform	25	22.3	89	60-129
108-90-7	Chlorobenzene	25	25.8	103	82-112
75-00-3	Chloroethane	25	31.6	126	67-148
67-66-3	Chloroform	25	26.4	106	78-118
75-15-0	Carbon disulfide	25	14.7	59*	65-147
56-23-5	Carbon tetrachloride	25	27.4	110	69-137
110-82-7	Cyclohexane	25	25.2	101	77-140
75-34-3	1,1-Dichloroethane	25	26.3	105	75-117
75-35-4	1,1-Dichloroethylene	25	25.4	102	67-134
96-12-8	1,2-Dibromo-3-chloropropane	25	19.8	79	54-125
106-93-4	1,2-Dibromoethane	25	22.8	91	68-116
107-06-2	1,2-Dichloroethane	25	24.9	100	68-121
78-87-5	1,2-Dichloropropane	25	25.5	102	78-122
354-23-4	1,2-Dichlorotrifluoroethane	25	28.1	112	62-132
124-48-1	Dibromochloromethane	25	24.3	97	68-118
75-71-8	Dichlorodifluoromethane	25	30.5	122	43-173
156-59-2	cis-1,2-Dichloroethylene	25	25.1	100	81-120
10061-01-5	cis-1,3-Dichloropropene	25	25.3	101	73-115
541-73-1	m-Dichlorobenzene	25	25.5	102	78-116
95-50-1	o-Dichlorobenzene	25	25.0	100	77-115
106-46-7	p-Dichlorobenzene	25	25.2	101	77-113
156-60-5	trans-1,2-Dichloroethylene	25	25.8	103	74-125
10061-02-6	trans-1,3-Dichloropropene	25	27.0	108	69-115
100-41-4	Ethylbenzene	25	25.6	102	82-115
76-13-1	Freon 113	25	21.6	86	72-148
591-78-6	2-Hexanone	125	112	90	60-125
98-82-8	Isopropylbenzene	25	29.5	118	83-129
108-10-1	4-Methyl-2-pentanone	125	109	87	61-128
79-20-9	Methyl Acetate	125	101	81	58-135
74-83-9	Methyl bromide	25	30.7	123	60-165
74-87-3	Methyl chloride	25	29.4	118	58-152
108-87-2	Methylcyclohexane	25	26.3	105	84-135
75-09-2	Methylene chloride	25	24.7	99	66-125

Blank Spike Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ704-BS	J016877.D	1	07/27/05	MM	n/a	n/a	VJ704

The QC reported here applies to the following samples: Method: SW846 8260B

F33504-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
78-93-3	Methyl ethyl ketone	125	104	83	58-127
1634-04-4	Methyl Tert Butyl Ether	25	25.3	101	67-127
100-42-5	Styrene	25	24.9	100	58-125
71-55-6	1,1,1-Trichloroethane	25	27.5	110	78-132
79-34-5	1,1,2,2-Tetrachloroethane	25	23.4	94	67-119
79-00-5	1,1,2-Trichloroethane	25	23.4	94	74-115
120-82-1	1,2,4-Trichlorobenzene	25	21.8	87	66-122
127-18-4	Tetrachloroethylene	25	26.1	104	75-126
108-88-3	Toluene	25	26.0	104	81-114
79-01-6	Trichloroethylene	25	26.0	104	80-115
75-69-4	Trichlorofluoromethane	25	29.5	118	65-163
75-01-4	Vinyl chloride	25	31.7	127	70-151
1330-20-7	Xylene (total)	75	78.6	105	81-118

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	86-115%
17060-07-0	1,2-Dichloroethane-D4	104%	73-126%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	100%	83-119%

Instrument Performance Check (BFB)

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample:	VJ703-BFB	Injection Date:	07/26/05
Lab File ID:	J016855.D	Injection Time:	16:13
Instrument ID:	GCMSJ		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16375	20.8		Pass
75	30.0 - 60.0% of mass 95	38568	48.9		Pass
95	Base peak, 100% relative abundance	78896	100.0		Pass
96	5.0 - 9.0% of mass 95	5444	6.9		Pass
173	Less than 2.0% of mass 174	322	0.41	(0.53) [a]	Pass
174	50.0 - 100.0% of mass 95	61328	77.7		Pass
175	5.0 - 9.0% of mass 174	4238	5.4	(6.9) [a]	Pass
176	95.0 - 101.0% of mass 174	59493	75.4	(97.0) [a]	Pass
177	5.0 - 9.0% of mass 176	3834	4.9	(6.4) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ703-IC703	J016856.D	07/26/05	16:39	00:26	Initial cal 1
VJ703-IC703	J016857.D	07/26/05	17:07	00:54	Initial cal 2
VJ703-IC703	J016858.D	07/26/05	17:35	01:22	Initial cal 3
VJ703-ICC703	J016859.D	07/26/05	18:03	01:50	Initial cal 4
VJ703-IC703	J016860.D	07/26/05	18:31	02:18	Initial cal 5
VJ703-IC703	J016861.D	07/26/05	19:00	02:47	Initial cal 6
VJ703-ICV703	J016862.D	07/26/05	19:28	03:15	Initial cal verification 4
VJ703-BS	J016863.D	07/26/05	19:56	03:43	Blank Spike
VJ703-MB	J016864.D	07/26/05	20:24	04:11	Method Blank
ZZZZZZ	J016865.D	07/26/05	20:52	04:39	(unrelated sample)
F33343-4	J016866.D	07/26/05	21:20	05:07	(used for QC only; not part of job F33504)
F33343-4MS	J016867.D	07/26/05	21:48	05:35	Matrix Spike
F33343-4MSD	J016868.D	07/26/05	22:16	06:03	Matrix Spike Duplicate
ZZZZZZ	J016869.D	07/26/05	22:44	06:31	(unrelated sample)
ZZZZZZ	J016870.D	07/26/05	23:12	06:59	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample:	VJ704-BFB	Injection Date:	07/27/05
Lab File ID:	J016875.D	Injection Time:	08:03
Instrument ID:	GCMSJ		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13045	21.0		Pass
75	30.0 - 60.0% of mass 95	30144	48.5		Pass
95	Base peak, 100% relative abundance	62178	100.0		Pass
96	5.0 - 9.0% of mass 95	4222	6.8		Pass
173	Less than 2.0% of mass 174	187	0.3	(0.41) [a]	Pass
174	50.0 - 100.0% of mass 95	46152	74.2		Pass
175	5.0 - 9.0% of mass 174	3328	5.4	(7.2) [a]	Pass
176	95.0 - 101.0% of mass 174	45093	72.5	(97.7) [a]	Pass
177	5.0 - 9.0% of mass 176	3096	5.0	(6.9) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ704-CC703	J016876.D	07/27/05	08:29	00:26	Continuing cal 4
VJ704-BS	J016877.D	07/27/05	08:57	00:54	Blank Spike
VJ704-MB	J016878.D	07/27/05	09:25	01:22	Method Blank
ZZZZZZ	J016879.D	07/27/05	09:54	01:51	(unrelated sample)
F33504-1	J016894.D	07/27/05	16:57	08:54	TT-MW-125

Volatile Internal Standard Area Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Check Std:	VJ704-CC703	Injection Date:	07/27/05
Lab File ID:	J016876.D	Injection Time:	08:29
Instrument ID:	GCMSJ	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	1061448	11.15	824322	14.73	453101	17.27	101268	8.05
Upper Limit [a]	2122896	11.65	1648644	15.23	906202	17.77	202536	8.55
Lower Limit [b]	530724	10.65	412161	14.23	226551	16.77	50634	7.55

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ704-BS	1065351	11.15	816035	14.73	446081	17.27	100858	8.05
VJ704-MB	1081020	11.15	825382	14.73	412622	17.27	101333	8.05
ZZZZZZ	1023875	11.15	786699	14.73	402493	17.27	100943	8.05
F33504-1	840756	11.15	640235	14.73	327626	17.27	93729	8.06

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Method: SW846 8260B Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F33504-1	J016894.D	108.0	110.0	100.0	104.0
VJ704-BS	J016877.D	102.0	104.0	99.0	100.0
VJ704-MB	J016878.D	103.0	102.0	99.0	105.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	86-115%
S2 = 1,2-Dichloroethane-D4	73-126%
S3 = Toluene-D8	86-112%
S4 = 4-Bromofluorobenzene	83-119%

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ703-ICC703
Lab FileID: J016859.D

Response Factor Report MSVOA6

Method : C:\MSDCHEM\1\METHODS\MSJ0626A.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jul 27 08:26:53 2005
Response via : Initial Calibration

Calibration Files
1 =J016856.D 2 =J016857.D 3 =J016858.D 4 =J016859.D
5 =J016860.D 6 =J016861.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------	----------	ISTD	----------	----------	----------		
2)		Dichlorodifluoromet	0.171	0.163	0.225	0.215	0.207	0.194	0.196	12.53
3)	P	Chloromethane	0.316	0.305	0.390	0.385	0.376	0.357	0.355	10.17
4)	C	Vinyl Chloride	0.238	0.224	0.313	0.301	0.300	0.286	0.277	13.26
5)		Bromomethane	0.131	0.130	0.147	0.127	0.112	0.101	0.125	12.98
6)		Chloroethane	0.123	0.122	0.156	0.149	0.143	0.132	0.138	10.21
7)		Trichlorofluorometh	0.308	0.281	0.388	0.367	0.363	0.353	0.344	11.75
8)		Ethyl Ether	0.190	0.202	0.214	0.215	0.219	0.212	0.209	5.27
9)		1,2-Dichlorotrifluo	0.244	0.247	0.335	0.317	0.319	0.305	0.295	13.29
10)	C	1,1-Dichloroethene	0.339	0.312	0.423	0.410	0.408	0.399	0.382	11.87
11)		Freon 113	0.215	0.190	0.260	0.241	0.236	0.230	0.229	10.50
12)		Carbon Disulfide	0.799	0.691	0.934	0.895	0.891	0.873	0.847	10.46
13)		Iodomethane	0.282	0.284	0.348	0.344	0.343	0.345	0.324	9.84
14)		Acrolein		0.020	0.023	0.024	0.024	0.024	0.023	7.07
15)		Methylene Chloride	0.395	0.357	0.396	0.398	0.392	0.383	0.387	4.00
16)		Acetone	0.120	0.106	0.129	0.119	0.111	0.102	0.115	8.74
17)		Methyl acetate	0.139	0.154	0.159	0.165	0.167	0.160	0.158	6.41
18)		trans-1,2-Dichloroe	0.392	0.318	0.402	0.393	0.391	0.382	0.380	8.19
19)		Hexane	0.305	0.212	0.272	0.262	0.256	0.248	0.259	11.71
20)		Methyl Tert Butyl E	0.513	0.538	0.581	0.589	0.592	0.580	0.566	5.73
21)		Di-isopropyl ether	0.759	0.781	0.911	0.926	0.930	0.913	0.870	8.97
22)	P	1,1-Dichloroethane	0.403	0.383	0.477	0.470	0.471	0.464	0.445	9.13
23)		Acrylonitrile	0.070	0.077	0.083	0.088	0.088	0.086	0.082	8.72
24)		ETBE	0.642	0.691	0.775	0.801	0.806	0.798	0.752	9.15
25)		Vinyl acetate	0.209	0.228	0.236	0.257	0.239	0.214	0.231	7.57
26)		cis-1,2-Dichloroeth	0.220	0.214	0.255	0.255	0.255	0.255	0.242	8.16
27)		2,2-Dichloropropane	0.291	0.282	0.366	0.358	0.354	0.343	0.332	10.91
28)		Bromochloromethane	0.086	0.091	0.101	0.102	0.100	0.099	0.097	6.65
29)		Cyclohexane	0.391	0.338	0.479	0.464	0.469	0.456	0.433	12.92
30)	C	Chloroform	0.394	0.393	0.464	0.462	0.461	0.453	0.438	7.93
31)		Ethyl Acetate	0.201	0.201	0.210	0.215	0.218	0.212	0.209	3.43
32)		Tetrahydrofuran	0.060	0.066	0.062	0.063	0.065	0.061	0.063	3.72
33)	S	Dibromofluoromethan	0.253	0.254	0.254	0.250	0.250	0.245	0.251	1.34
34)		Carbon Tetrachlorid	0.289	0.286	0.377	0.366	0.363	0.359	0.340	12.00
35)		1,1,1-Trichloroetha	0.290	0.303	0.397	0.385	0.384	0.379	0.356	13.21
36)		2-Butanone	0.141	0.125	0.149	0.142	0.137	0.129	0.137	6.38
37)		1,1-Dichloropropene	0.273	0.240	0.329	0.318	0.318	0.313	0.299	11.63
38)		Benzene	0.900	0.807	0.984	0.972	0.974	0.972	0.935	7.44
39)		TAME	0.561	0.622	0.701	0.724	0.736	0.733	0.679	10.60
40)	S	1,2-Dichloroethane-	0.333	0.339	0.342	0.337	0.335	0.324	0.335	1.84
41)		1,2-Dichloroethane	0.321	0.327	0.353	0.357	0.355	0.343	0.343	4.50
42)		Trichloroethene	0.221	0.195	0.252	0.245	0.248	0.246	0.234	9.51
43)		Methylcyclohexane	0.379	0.299	0.431	0.412	0.412	0.404	0.390	12.15
44)		Dibromomethane	0.127	0.129	0.146	0.147	0.146	0.145	0.140	6.73
45)	C	1,2-Dichloropropane	0.239	0.227	0.273	0.271	0.276	0.271	0.259	7.98
46)		Bromodichloromethan	0.279	0.297	0.346	0.353	0.356	0.351	0.331	10.10

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ703-ICC703
Lab FileID: J016859.D

47)		2-Chloroethyl vinyl	0.075	0.092	0.106	0.109	0.111	0.108	0.100	14.00
48)		cis-1,3-Dichloropro	0.312	0.338	0.397	0.400	0.402	0.399	0.375	10.51
49)	I	Chlorobenzene-d5	----------ISTD----------							
50)	S	Toluene-d8	1.290	1.297	1.281	1.294	1.327	1.346	1.306	1.95
51)	C	Toluene	1.220	1.081	1.307	1.292	1.330	1.347	1.263	7.85
52)		2-Nitropropane	0.057	0.067	0.074	0.078	0.080	0.077	0.072	11.91
53)		4-Methyl-2-pentanon	0.265	0.298	0.323	0.331	0.338	0.329	0.314	8.75
54)		trans-1,3-Dichlorop	0.346	0.390	0.439	0.451	0.464	0.465	0.426	11.24
55)		Tetrachloroethene	0.283	0.246	0.314	0.308	0.313	0.322	0.298	9.64
56)		1,1,2-Trichloroetha	0.212	0.224	0.243	0.248	0.254	0.254	0.239	7.31
57)		Dibromochloromethan	0.240	0.265	0.305	0.313	0.322	0.330	0.296	11.97
58)		1,3-Dichloropropane	0.422	0.446	0.476	0.486	0.498	0.500	0.471	6.62
59)		1,2-Dibromoethane	0.217	0.256	0.277	0.287	0.293	0.300	0.272	11.40
60)		2-hexanone	0.195	0.230	0.283	0.273	0.273	0.263	0.253	13.37
61)		1-Chlorohexane	0.283	0.298	0.425	0.422	0.423	0.432	0.380	18.39
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
		Response Ratio = 0.00000 + 0.40839 *A + 0.01163 *A^2								
62)	C	Ethylbenzene	1.414	1.241	1.508	1.497	1.531	1.544	1.456	7.87
63)	P	Chlorobenzene	0.767	0.706	0.816	0.811	0.820	0.823	0.790	5.84
64)		1,1,1,2-Tetrachloro	0.245	0.253	0.297	0.300	0.304	0.310	0.285	9.89
65)		m,p-Xylene	1.040	0.969	1.184	1.192	1.223	1.229	1.139	9.52
66)		o-Xylene	1.014	1.011	1.232	1.241	1.274	1.291	1.177	10.99
67)		Styrene	0.734	0.764	0.954	0.981	1.012	1.029	0.912	14.20
68)	P	Bromoform	0.153	0.174	0.209	0.224	0.234	0.243	0.206	17.18
69)		Isopropylbenzene	1.114	1.033	1.351	1.329	1.371	1.388	1.264	11.98
70)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
71)	S	4-Bromofluorobenzen	1.064	1.060	1.070	1.071	1.081	1.091	1.073	1.05
72)		n-Propylbenzene	3.059	2.719	3.471	3.423	3.458	3.459	3.265	9.52
73)		Bromobenzene	0.651	0.603	0.699	0.697	0.697	0.701	0.674	5.95
74)	P	1,1,2,2-Tetrachloro	0.634	0.663	0.686	0.697	0.684	0.665	0.672	3.34
75)		1,3,5-Trimethylbenz	1.959	1.875	2.350	2.345	2.351	2.353	2.206	10.21
76)		2-Chlorotoluene	1.963	1.797	2.131	2.099	2.104	2.098	2.032	6.38
77)		trans-1,4-Dichloro-		0.147	0.181	0.190	0.201	0.198	0.184	11.90
78)		1,2,3-Trichloroprop	0.157	0.178	0.187	0.190	0.190	0.187	0.182	7.02
79)		Cyclohexanone	0.064	0.016	0.018	0.019	0.020	0.020	0.026	70.47
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
		Response Ratio = 0.00000 + 0.01830 *A + 0.00022 *A^2								
80)		4-Chlorotoluene	1.923	1.795	2.145	2.124	2.147	2.138	2.045	7.35
81)		tert-Butylbenzene	1.221	1.130	1.420	1.387	1.399	1.395	1.325	9.07
82)		1,2,4-Trimethylbenz	2.165	1.945	2.391	2.383	2.410	2.404	2.283	8.32
83)		sec-Butylbenzene	2.683	2.385	3.140	3.050	3.059	3.052	2.895	10.26
84)		4-Isopropyltoluene	2.058	1.818	2.338	2.267	2.283	2.267	2.172	9.12
85)		1,3-Dichlorobenzene	1.268	1.098	1.285	1.272	1.279	1.290	1.249	5.96
86)		1,4-Dichlorobenzene	1.268	1.098	1.332	1.303	1.309	1.311	1.270	6.85
87)		n-Butylbenzene	1.298	1.164	1.507	1.475	1.484	1.465	1.399	9.81
88)		Benzyl Chloride	0.128	0.174	0.216	0.223	0.226	0.222	0.198	19.79
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998								
		Response Ratio = 0.00000 + 0.22381 *A + -0.00045 *A^2								
89)		1,2-Dichlorobenzene	1.204	1.081	1.234	1.213	1.208	1.215	1.193	4.67
90)		1,2-Dibromo-3-Chlor	0.134	0.105	0.118	0.122	0.121	0.124	0.121	7.92
91)		Hexachlorobutadiene	0.565	0.356	0.470	0.457	0.463	0.477	0.465	14.31
92)		1,2,4-Trichlorobenz	1.069	0.728	0.833	0.839	0.835	0.856	0.860	13.03
93)		Naphthalene	2.546	1.525	1.714	1.746	1.760	1.749	1.840	19.40
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 1.74389 *A + 0.00403 *A^2								

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL
Sample: VJ703-ICC703
Lab FileID: J016859.D


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94)     1,2,3-Trichlorobenz 1.147 0.645 0.703 0.705 0.696 0.695 0.765  24.63
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.70640 *A + -0.00605 *A^2


95) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
96)     Tert Butyl Alcohol  0.953 0.883 0.898 0.897 0.904 0.910 0.908   2.64
97)     tert Amyl alcohol   0.126 0.050 0.066 0.070 0.069 0.071 0.075  34.83
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.06657 *A + 0.00100 *A^2

98)     1,4-Dioxane         0.067 0.080 0.087 0.094 0.095 0.096 0.087  13.14
------------------------------------------------------------------------------
(#) = Out of Range

          MSJ0626A.M        Wed Jul 27 09:26:11 2005
```

Initial Calibration Verification

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ703-ICV703
Lab FileID: J016862.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\072605\J016862.D Vial: 16
Acq On : 26 Jul 2005 7:28 pm Operator: MunaM
Sample : icv703-4 Inst : MSVOA6
Misc : MS4782,VJ703,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\MSJ0626A.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jul 27 08:26:53 2005
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	107	0.00	11.15
2		Dichlorodifluoromethane	0.196	0.197	-0.5	98	0.00	4.25
3	P	Chloromethane	0.355	0.377	-6.2	105	0.00	4.60
4	C	Vinyl Chloride	0.277	0.310	-11.9	110	0.00	4.80
5		Bromomethane	0.125	0.119	4.8	99	0.00	5.46
6		Chloroethane	0.138	0.150	-8.7	108	0.00	5.70
7		Trichlorofluoromethane	0.344	0.345	-0.3	100	0.00	5.98
8		Ethyl Ether	0.209	0.172	17.7	86	0.00	6.45
9		1,2-Dichlorotrifluoroetha	0.295	0.309	-4.7	104	0.00	6.76
10	C	1,1-Dichloroethene	0.382	0.366	4.2	95	0.00	6.84
11		Freon 113	0.229	0.179	21.8#	79	0.00	6.89
12		Carbon Disulfide	0.847	0.468	44.7#	56	0.00	6.94
13		Iodomethane	0.324	0.263	18.8	82	0.00	7.10
14		Acrolein	0.023	0.005	78.3#	22#	0.00	7.35
15		Methylene Chloride	0.387	0.372	3.9	100	0.00	7.72
16		Acetone	0.115	0.106	7.8	95	0.00	7.76
17		Methyl acetate	0.158	0.145	8.2	94	0.00	7.92
18		trans-1,2-Dichloroethene	0.380	0.376	1.1	102	0.00	7.97
19		Hexane	0.259	0.198	23.6#	81	0.00	8.05
20		Methyl Tert Butyl Ether	0.566	0.627	-10.8	114	0.00	8.09
21		Di-isopropyl ether	0.870	0.918	-5.5	106	0.00	8.57
22	P	1,1-Dichloroethane	0.445	0.463	-4.0	105	0.00	8.84
23		Acrylonitrile	0.082	0.029	64.6#	35#	0.00	8.88
24		ETBE	0.752	0.832	-10.6	111	0.00	9.08
25		Vinyl acetate	0.231	0.198	14.3	82	0.00	9.09
26		cis-1,2-Dichloroethene	0.242	0.244	-0.8	102	0.00	9.57
27		2,2-Dichloropropane	0.332	0.316	4.8	94	0.00	9.72
28		Bromochloromethane	0.097	0.107	-10.3	112	0.00	9.84
29		Cyclohexane	0.433	0.419	3.2	96	0.00	9.88
30	C	Chloroform	0.438	0.446	-1.8	103	0.00	9.89
31		Ethyl Acetate	0.209	0.200	4.3	100	0.00	9.96
32		Tetrahydrofuran	0.063	0.065	-3.2	109	0.00	10.13
33	S	Dibromofluoromethane	0.251	0.247	1.6	106	0.00	10.13
34		Carbon Tetrachloride	0.340	0.349	-2.6	102	0.00	10.13
35		1,1,1-Trichloroethane	0.356	0.369	-3.7	102	0.00	10.21
36		2-Butanone	0.137	0.128	6.6	96	0.00	10.25
37		1,1-Dichloropropene	0.299	0.311	-4.0	104	0.00	10.35
38		Benzene	0.935	0.952	-1.8	105	0.00	10.67
39		TAME	0.679	0.670	1.3	99	0.00	10.73
40	S	1,2-Dichloroethane-d4	0.335	0.330	1.5	104	0.00	10.82
41		1,2-Dichloroethane	0.343	0.341	0.6	102	0.00	10.90
42		Trichloroethene	0.234	0.246	-5.1	107	0.00	11.36

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ703-ICV703
Lab FileID: J016862.D

43		Methylcyclohexane	0.390	0.392	-0.5	102	0.00	11.38
44		Dibromomethane	0.140	0.142	-1.4	103	0.00	11.88
45	C	1,2-Dichloropropane	0.259	0.269	-3.9	106	0.00	11.98
46		Bromodichloromethane	0.331	0.344	-3.9	104	0.00	12.02
47		2-Chloroethyl vinyl ether	0.100	0.138	-38.0#	136	0.00	12.61
48		cis-1,3-Dichloropropene	0.375	0.386	-2.9	103	0.00	12.74
49	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00	14.73
50	S	Toluene-d8	1.306	1.310	-0.3	107	0.00	12.96
51	C	Toluene	1.263	1.303	-3.2	106	0.00	13.02
52		2-Nitropropane	0.072	0.076	-5.6	103	0.00	13.27
53		4-Methyl-2-pentanone	0.314	0.317	-1.0	101	0.00	13.38
54		trans-1,3-Dichloropropene	0.426	0.486	-14.1	114	0.00	13.46
55		Tetrachloroethene	0.298	0.315	-5.7	108	0.00	13.49
56		1,1,2-Trichloroethane	0.239	0.245	-2.5	104	0.00	13.65
57		Dibromochloromethane	0.296	0.310	-4.7	104	0.00	13.89
58		1,3-Dichloropropane	0.471	0.474	-0.6	103	0.00	13.98
59		1,2-Dibromoethane	0.272	0.282	-3.7	104	0.00	14.20
60		2-hexanone	0.253	0.253	0.0	98	0.00	14.30
			Amount	Calc.	%Drift			
61		1-Chlorohexane	40.000	42.611	-6.5	111	0.00	14.63
			AvgRF	CCRF	%Dev			
62	C	Ethylbenzene	1.456	1.490	-2.3	105	0.00	14.72
63	P	Chlorobenzene	0.790	0.819	-3.7	107	0.00	14.75
64		1,1,1,2-Tetrachloroethane	0.285	0.284	0.4	100	0.00	14.79
65		m,p-Xylene	1.139	1.188	-4.3	105	0.00	14.87
66		o-Xylene	1.177	1.243	-5.6	106	0.00	15.36
67		Styrene	0.912	0.950	-4.2	102	0.00	15.41
68	P	Bromoform	0.206	0.215	-4.4	101	0.00	15.50
69		Isopropylbenzene	1.264	1.479	-17.0	117	0.00	15.68
70	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	17.27
71	S	4-Bromofluorobenzene	1.073	1.089	-1.5	105	0.00	16.05
72		n-Propylbenzene	3.265	3.463	-6.1	104	0.00	16.14
73		Bromobenzene	0.674	0.689	-2.2	102	0.00	16.20
74	P	1,1,2,2-Tetrachloroethane	0.672	0.664	1.2	98	0.00	16.20
75		1,3,5-Trimethylbenzene	2.206	2.310	-4.7	102	0.00	16.32
76		2-Chlorotoluene	2.032	2.085	-2.6	102	0.00	16.36
77		trans-1,4-Dichloro-2-Bute	0.184	0.216	-17.4	117	0.00	16.40
78		1,2,3-Trichloropropane	0.182	0.184	-1.1	100	0.00	16.40
			Amount	Calc.	%Drift			
79		Cyclohexanone	200.000	161.566	19.2	82	0.00	16.49
			AvgRF	CCRF	%Dev			
80		4-Chlorotoluene	2.045	2.158	-5.5	105	0.00	16.54
81		tert-Butylbenzene	1.325	1.393	-5.1	104	0.00	16.70
82		1,2,4-Trimethylbenzene	2.283	2.335	-2.3	101	0.00	16.76
83		sec-Butylbenzene	2.895	2.972	-2.7	101	0.00	16.88
84		4-Isopropyltoluene	2.172	2.358	-8.6	107	0.00	17.01
85		1,3-Dichlorobenzene	1.249	1.288	-3.1	104	0.00	17.20
86		1,4-Dichlorobenzene	1.270	1.307	-2.9	103	0.00	17.29
87		n-Butylbenzene	1.399	1.457	-4.1	102	0.00	17.49
			Amount	Calc.	%Drift			
88		Benzyl Chloride	40.000	41.814	-4.5	108	0.00	17.54
			AvgRF	CCRF	%Dev			

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ703-ICV703
Lab FileID: J016862.D

89	1,2-Dichlorobenzene	1.193	1.240	-3.9	105	0.00	17.77
90	1,2-Dibromo-3-Chloropropa	0.121	0.117	3.3	99	0.00	18.61
91	Hexachlorobutadiene	0.465	0.442	4.9	100	0.00	19.26
92	1,2,4-Trichlorobenzene	0.860	0.817	5.0	100	0.00	19.35
		Amount	Calc.	%Drift			
93	Naphthalene	40.000	38.927	2.7	100	0.00	19.74
94	1,2,3-Trichlorobenzene	40.000	38.822	2.9	100	0.00	19.98
		AvgRF	CCRF	%Dev			
95 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	103	0.00	8.05
96	Tert Butyl Alcohol	0.908	0.924	-1.8	106	0.00	8.15
		Amount	Calc.	%Drift			
97	tert Amyl alcohol	400.000	377.072	5.7	95	0.00	10.73
		AvgRF	CCRF	%Dev			
98	1,4-Dioxane	0.087	0.094	-8.0	103	0.00	12.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J016859.D MSJ0626A.M Wed Jul 27 09:25:45 2005

Continuing Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ704-CC703
Lab FileID: J016876.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\072705\J016876.D Vial: 1
Acq On : 27 Jul 2005 8:29 am Operator: MunaM
Sample : cc703-4 Inst : MSVOA6
Misc : MS4636,VJ704,,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\MSJ0626A.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jul 27 08:26:53 2005
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	84	0.00	11.15
2		Dichlorodifluoromethane	0.196	0.234	-19.4	92	0.00	4.26
3	P	Chloromethane	0.355	0.401	-13.0	88	0.01	4.61
4	C	Vinyl Chloride	0.277	0.315	-13.7	88	0.00	4.81
5		Bromomethane	0.125	0.146	-16.8	96	0.01	5.47
6		Chloroethane	0.138	0.168	-21.7#	95	0.00	5.71
7		Trichlorofluoromethane	0.344	0.417	-21.2#	96	0.00	5.98
8		Ethyl Ether	0.209	0.204	2.4	80	0.00	6.45
9		1,2-Dichlorotrifluoroetha	0.295	0.333	-12.9	88	0.00	6.76
10	C	1,1-Dichloroethene	0.382	0.418	-9.4	86	0.00	6.84
11		Freon 113	0.229	0.253	-10.5	88	0.00	6.90
12		Carbon Disulfide	0.847	0.914	-7.9	86	0.00	6.95
13		Iodomethane	0.324	0.344	-6.2	84	0.00	7.11
14		Acrolein	0.023	0.020	13.0	72	0.00	7.35
15		Methylene Chloride	0.387	0.404	-4.4	85	0.00	7.73
16		Acetone	0.115	0.056	51.3#	40#	0.00	7.77
17		Methyl acetate	0.158	0.149	5.7	76	0.00	7.92
18		trans-1,2-Dichloroethene	0.380	0.402	-5.8	86	0.00	7.97
19		Hexane	0.259	0.266	-2.7	85	0.00	8.05
20		Methyl Tert Butyl Ether	0.566	0.548	3.2	78	0.00	8.09
21		Di-isopropyl ether	0.870	0.930	-6.9	85	0.00	8.57
22	P	1,1-Dichloroethane	0.445	0.477	-7.2	85	0.00	8.84
23		Acrylonitrile	0.082	0.077	6.1	74	0.00	8.88
24		ETBE	0.752	0.779	-3.6	82	0.00	9.08
25		Vinyl acetate	0.231	0.264	-14.3	86	0.00	9.09
26		cis-1,2-Dichloroethene	0.242	0.256	-5.8	84	0.00	9.57
27		2,2-Dichloropropane	0.332	0.384	-15.7	90	0.00	9.72
28		Bromochloromethane	0.097	0.102	-5.2	84	0.00	9.84
29		Cyclohexane	0.433	0.468	-8.1	85	0.00	9.88
30	C	Chloroform	0.438	0.478	-9.1	87	0.00	9.89
31		Ethyl Acetate	0.209	0.189	9.6	74	0.00	9.96
32		Tetrahydrofuran	0.063	0.051	19.0	68	0.01	10.14
33	S	Dibromofluoromethane	0.251	0.258	-2.8	87	0.00	10.13
34		Carbon Tetrachloride	0.340	0.386	-13.5	89	0.00	10.14
35		1,1,1-Trichloroethane	0.356	0.401	-12.6	88	0.00	10.22
36		2-Butanone	0.137	0.093	32.1#	55	0.00	10.25
37		1,1-Dichloropropene	0.299	0.327	-9.4	86	0.00	10.35
38		Benzene	0.935	0.972	-4.0	84	0.00	10.67
39		TAME	0.679	0.683	-0.6	79	0.00	10.73
40	S	1,2-Dichloroethane-d4	0.335	0.338	-0.9	84	0.00	10.82
41		1,2-Dichloroethane	0.343	0.356	-3.8	84	0.00	10.90
42		Trichloroethene	0.234	0.248	-6.0	85	0.00	11.36

Continuing Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ704-CC703
Lab FileID: J016876.D

43		Methylcyclohexane	0.390	0.419	-7.4	86	0.00	11.38
44		Dibromomethane	0.140	0.143	-2.1	82	0.00	11.88
45	C	1,2-Dichloropropane	0.259	0.274	-5.8	85	0.00	11.98
46		Bromodichloromethane	0.331	0.362	-9.4	86	0.00	12.03
47		2-Chloroethyl vinyl ether	0.100	0.092	8.0	71	0.00	12.61
48		cis-1,3-Dichloropropene	0.375	0.409	-9.1	86	0.00	12.74
49	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00	14.73
50	S	Toluene-d8	1.306	1.289	1.3	86	0.00	12.96
51	C	Toluene	1.263	1.314	-4.0	88	0.00	13.02
52		2-Nitropropane	0.072	0.072	0.0	80	0.00	13.27
53		4-Methyl-2-pentanone	0.314	0.291	7.3	76	0.00	13.38
54		trans-1,3-Dichloropropene	0.426	0.446	-4.7	85	0.00	13.46
55		Tetrachloroethene	0.298	0.308	-3.4	86	0.00	13.49
56		1,1,2-Trichloroethane	0.239	0.238	0.4	83	0.00	13.66
57		Dibromochloromethane	0.296	0.310	-4.7	86	0.00	13.89
58		1,3-Dichloropropane	0.471	0.469	0.4	83	0.00	13.98
59		1,2-Dibromoethane	0.272	0.270	0.7	81	0.00	14.20
60		2-hexanone	0.253	0.196	22.5#	62	0.00	14.30
			Amount	Calc.	%Drift			
61		1-Chlorohexane	40.000	40.236	-0.6	86	0.00	14.64
			AvgRF	CCRF	%Dev			
62	C	Ethylbenzene	1.456	1.522	-4.5	88	0.00	14.73
63	P	Chlorobenzene	0.790	0.831	-5.2	88	0.00	14.75
64		1,1,1,2-Tetrachloroethane	0.285	0.307	-7.7	88	0.00	14.80
65		m,p-Xylene	1.139	1.225	-7.6	89	0.00	14.87
66		o-Xylene	1.177	1.270	-7.9	88	0.00	15.36
67		Styrene	0.912	0.997	-9.3	88	0.00	15.41
68	P	Bromoform	0.206	0.209	-1.5	80	0.00	15.51
69		Isopropylbenzene	1.264	1.383	-9.4	90	0.00	15.68
70	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00	17.27
71	S	4-Bromofluorobenzene	1.073	1.075	-0.2	87	0.00	16.05
72		n-Propylbenzene	3.265	3.535	-8.3	89	0.00	16.14
73		Bromobenzene	0.674	0.703	-4.3	87	0.00	16.20
74	P	1,1,2,2-Tetrachloroethane	0.672	0.657	2.2	81	0.00	16.21
75		1,3,5-Trimethylbenzene	2.206	2.398	-8.7	88	0.00	16.32
76		2-Chlorotoluene	2.032	2.192	-7.9	90	0.00	16.36
77		trans-1,4-Dichloro-2-Bute	0.184	0.182	1.1	83	0.00	16.40
78		1,2,3-Trichloropropane	0.182	0.178	2.2	81	0.00	16.40
			Amount	Calc.	%Drift			
79		Cyclohexanone	200.000	164.395	17.8	70	0.00	16.49
			AvgRF	CCRF	%Dev			
80		4-Chlorotoluene	2.045	2.215	-8.3	90	0.00	16.54
81		tert-Butylbenzene	1.325	1.455	-9.8	91	0.00	16.70
82		1,2,4-Trimethylbenzene	2.283	2.466	-8.0	89	0.00	16.76
83		sec-Butylbenzene	2.895	3.167	-9.4	90	0.00	16.89
84		4-Isopropyltoluene	2.172	2.359	-8.6	90	0.00	17.02
85		1,3-Dichlorobenzene	1.249	1.310	-4.9	89	0.00	17.21
86		1,4-Dichlorobenzene	1.270	1.336	-5.2	89	0.00	17.29
87		n-Butylbenzene	1.399	1.523	-8.9	89	0.00	17.49
			Amount	Calc.	%Drift			
88		Benzyl Chloride	40.000	39.068	2.3	85	0.00	17.54
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ704-CC703
Lab FileID: J016876.D

89	1,2-Dichlorobenzene	1.193	1.226	-2.8	87	0.00	17.77
90	1,2-Dibromo-3-Chloropropa	0.121	0.105	13.2	75	0.00	18.61
91	Hexachlorobutadiene	0.465	0.434	6.7	82	0.00	19.26
92	1,2,4-Trichlorobenzene	0.860	0.780	9.3	80	0.00	19.35
		Amount	Calc.	%Drift			
93	Naphthalene	40.000	33.814	15.5	73	0.00	19.74
94	1,2,3-Trichlorobenzene	40.000	33.875	15.3	73	0.00	19.98
		AvgRF	CCRF	%Dev			
95 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	68	0.00	8.05
96	Tert Butyl Alcohol	0.908	0.904	0.4	68	0.00	8.15
		Amount	Calc.	%Drift			
97	tert Amyl alcohol	400.000	484.978	-21.2#	81	0.00	10.73
		AvgRF	CCRF	%Dev			
98	1,4-Dioxane	0.087	0.099	-13.8	71	0.00	12.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J016859.D MSJ0626A.M Wed Jul 27 10:21:46 2005

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13957-MB	F010527.D	1	07/27/05	NJ	07/26/05	OP13957	SF589

The QC reported here applies to the following samples: Method: SW846 8270C

F33504-1

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.0	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	83%	49-119%
321-60-8	2-Fluorobiphenyl	87%	45-118%
1718-51-0	Terphenyl-d14	90%	46-135%

Blank Spike Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13957-BS	F010526.D	1	07/27/05	NJ	07/26/05	OP13957	SF589

The QC reported here applies to the following samples: Method: SW846 8270C

F33504-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	50	28.2	56	9-70

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	86%	49-119%
321-60-8	2-Fluorobiphenyl	88%	45-118%
1718-51-0	Terphenyl-d14	86%	46-135%

Instrument Performance Check (DFTPP)

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF580-DFTPP
Lab File ID: F010288.D
Instrument ID: GCMSF
Injection Date: 07/14/05
Injection Time: 09:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	98608	38.0		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	103916	40.0		Pass
70	Less than 2.0% of mass 69	624	0.24	(0.6) [a]	Pass
127	40.0 - 60.0% of mass 198	122213	47.1		Pass
197	Less than 1.0% of mass 198	202	0.08		Pass
198	Base peak, 100% relative abundance	259544	100.0		Pass
199	5.0 - 9.0% of mass 198	17139	6.6		Pass
275	10.0 - 30.0% of mass 198	54352	20.9		Pass
365	1.0 - 100.0% of mass 198	4846	1.9		Pass
441	Present, but less than mass 443	24130	9.3	(72.7) [b]	Pass
442	40.0 - 100.0% of mass 198	165544	63.8		Pass
443	17.0 - 23.0% of mass 442	33205	12.8	(20.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SF580-IC580	F010289.D	07/14/05	09:44	00:19	Initial cal 5
SF580-IC580	F010290.D	07/14/05	10:15	00:50	Initial cal 25
SF580-IC580	F010291.D	07/14/05	10:45	01:20	Initial cal 50
SF580-ICC580	F010292.D	07/14/05	11:15	01:50	Initial cal 75
SF580-IC580	F010293.D	07/14/05	11:46	02:21	Initial cal 100
SF580-IC580	F010294.D	07/14/05	12:17	02:52	Initial cal 125
SF580-ICV580	F010295.D	07/14/05	12:53	03:28	Initial cal verification 50
OP13806-BS	F010299.D	07/14/05	14:58	05:33	Blank Spike
OP13806-MB	F010300.D	07/14/05	15:29	06:04	Method Blank
ZZZZZZ	F010301.D	07/14/05	16:01	06:36	(unrelated sample)
F33029-1	F010302.D	07/14/05	16:32	07:07	(used for QC only; not part of job F33504)
OP13806-MS	F010303.D	07/14/05	17:03	07:38	Matrix Spike
OP13806-MSD	F010304.D	07/14/05	17:34	08:09	Matrix Spike Duplicate
ZZZZZZ	F010305.D	07/14/05	18:04	08:39	(unrelated sample)
ZZZZZZ	F010306.D	07/14/05	18:34	09:09	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF589-DFTPP
Lab File ID: F010524.D
Instrument ID: GCMSF
Injection Date: 07/27/05
Injection Time: 09:14

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	61083	39.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	63609	40.8		Pass
70	Less than 2.0% of mass 69	267	0.17	(0.42) [a]	Pass
127	40.0 - 60.0% of mass 198	73637	47.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	156018	100.0		Pass
199	5.0 - 9.0% of mass 198	10596	6.8		Pass
275	10.0 - 30.0% of mass 198	31733	20.3		Pass
365	1.0 - 100.0% of mass 198	2926	1.9		Pass
441	Present, but less than mass 443	13184	8.5	(71.3) [b]	Pass
442	40.0 - 100.0% of mass 198	95797	61.4		Pass
443	17.0 - 23.0% of mass 442	18487	11.8	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SF589-CC580	F010525.D	07/27/05	09:33	00:19	Continuing cal 75
OP13957-BS	F010526.D	07/27/05	10:03	00:49	Blank Spike
OP13957-MB	F010527.D	07/27/05	10:32	01:18	Method Blank
F33504-1	F010528.D	07/27/05	11:02	01:48	TT-MW-125
OP13947-LBS	F010529.D	07/27/05	11:31	02:17	Blank Spike
OP13947-LB	F010530.D	07/27/05	12:01	02:47	Leachate Blank
F33373-4	F010531.D	07/27/05	12:31	03:17	(used for QC only; not part of job F33504)
F33378-1	F010534.D	07/27/05	14:02	04:48	(used for QC only; not part of job F33504)
OP13947-MS	F010535.D	07/27/05	14:32	05:18	Matrix Spike
OP13947-MSD	F010536.D	07/27/05	15:03	05:49	Matrix Spike Duplicate
OP13947-DUP	F010537.D	07/27/05	15:33	06:19	Duplicate
OP13942-MB	F010538.D	07/27/05	16:04	06:50	Method Blank
ZZZZZZ	F010539.D	07/27/05	16:35	07:21	(unrelated sample)
ZZZZZZ	F010540.D	07/27/05	17:06	07:52	(unrelated sample)
ZZZZZZ	F010541.D	07/27/05	17:36	08:22	(unrelated sample)
ZZZZZZ	F010542.D	07/27/05	18:07	08:53	(unrelated sample)
ZZZZZZ	F010543.D	07/27/05	18:37	09:23	(unrelated sample)
ZZZZZZ	F010544.D	07/27/05	19:08	09:54	(unrelated sample)
ZZZZZZ	F010545.D	07/27/05	19:38	10:24	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample:	SF589-DFTPP	Injection Date:	07/27/05
Lab File ID:	F010524.D	Injection Time:	09:14
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F010546.D	07/27/05	20:08	10:54	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Check Std:	SF589-CC580	Injection Date:	07/27/05
Lab File ID:	F010525.D	Injection Time:	09:33
Instrument ID:	GCMSF	Method:	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	224788	4.50	866660	5.55	531395	7.69	979101	10.13	804424	15.04	707629	17.53
Upper Limit [a]	449576	5.00	1733320	6.05	1062790	8.19	1958202	10.63	1608848	15.54	1415258	18.03
Lower Limit [b]	112394	4.00	433330	5.05	265698	7.19	489551	9.63	402212	14.54	353815	17.03
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP13957-BS	211342	4.50	809452	5.55	474644	7.68	854907	10.13	723802	15.03	626776	17.53
OP13957-MB	190290	4.50	710006	5.55	405613	7.68	722122	10.13	617382	15.02	550651	17.52
F33504-1	198454	4.50	753590	5.55	443107	7.68	790801	10.13	673084	15.02	585217	17.52
OP13947-LBS	198772	4.50	760058	5.55	446314	7.68	785677	10.13	664937	15.03	576365	17.52
OP13947-LB	207207	4.50	769122	5.55	446167	7.68	788226	10.12	683736	15.02	606939	17.52
F33373-4	195822	4.50	727787	5.55	419542	7.68	735560	10.12	616906	15.02	547883	17.52
F33378-1	208593	4.50	776973	5.55	447209	7.68	808551	10.12	690108	15.02	605476	17.52
OP13947-MS	216302	4.50	823359	5.55	497145	7.68	877289	10.13	733281	15.03	627429	17.52
OP13947-MSD	215275	4.50	815359	5.55	477689	7.68	856914	10.13	704928	15.03	611310	17.52
OP13947-DUP	197458	4.50	742921	5.55	431949	7.68	765853	10.12	671895	15.02	588903	17.52
OP13942-MB	217512	4.50	818522	5.55	490547	7.68	872622	10.12	754951	15.02	649004	17.52
ZZZZZZ	228300	4.50	889336	5.55	528038	7.69	879925	10.15	706357	15.03	607534	17.52
ZZZZZZ	239959	4.50	941137	5.55	559781	7.69	935439	10.15	748211	15.03	647166	17.52
ZZZZZZ	198362	4.50	755913	5.55	450719	7.68	796077	10.13	690337	15.02	594579	17.52
ZZZZZZ	231992	4.50	889652	5.55	520626	7.68	918613	10.13	770848	15.03	676120	17.52
ZZZZZZ	202303	4.50	772690	5.55	452042	7.68	808663	10.13	700471	15.02	612427	17.52
ZZZZZZ	191530	4.50	734273	5.55	430940	7.68	753976	10.12	641286	15.02	565714	17.52
ZZZZZZ	197721	4.50	767865	5.55	451156	7.68	800973	10.12	688762	15.02	597891	17.52
ZZZZZZ	195294	4.50	742227	5.55	434403	7.68	768597	10.12	661859	15.02	573023	17.52

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Method: SW846 8270C Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
F33504-1	F010528.D	37.0	23.0	82.0	61.0	64.0	79.0
OP13957-BS	F010526.D				86.0	88.0	86.0
OP13957-MB	F010527.D				83.0	87.0	90.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	19-90%
S2 = Phenol-d5	10-68%
S3 = 2,4,6-Tribromophenol	36-137%
S4 = Nitrobenzene-d5	49-119%
S5 = 2-Fluorobiphenyl	45-118%
S6 = Terphenyl-d14	46-135%

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL
Sample: SF580-ICC580
Lab FileID: F010292.D

Response Factor Report MS-F

Method : C:\MSDCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Jul 14 13:35:24 2005
Response via : Initial Calibration

Calibration Files
5 =F010289.D 25 =F010290.D 50 =F010291.D 75 =F010292.D
100 =F010293.D 125 =F010294.D icv =F010295.D

Compound	5	25	50	75	100	125	icv	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD								
2) 1,4-Dioxane	0.344	0.363	0.429	0.410	0.416	0.421		0.397	8.77
3) N-nitrosodimethyl	0.550	0.559	0.640	0.657	0.642	0.652		0.617	7.86
4) Pyridine	1.031	0.968	1.166	1.105	1.141	1.227		1.106	8.49
5) Benzaldehyde	0.905	0.905	0.673	0.480	0.758			0.744	23.90
6) Aniline	1.724	1.909	1.918	1.984	1.985	2.017		1.923	5.51
7)S 2-Fluorophenol	1.061	1.159	1.217	1.246	1.228	1.235		1.191	5.95
8) bis(2-Chloroethyl	0.957	1.036	1.093	1.123	1.125	1.116		1.075	6.19
9)S Phenol-d5	1.392	1.540	1.621	1.626	1.634	1.625		1.573	6.06
10)C Phenol	1.469	1.525	1.613	1.594	1.614	1.781		1.599	6.63
11) 2-Chlorophenol	1.245	1.320	1.384	1.392	1.390	1.398		1.355	4.50
12) 1,3-Dichlorobenze	1.444	1.484	1.544	1.547	1.530	1.520		1.512	2.66
13)C 1,4-Dichlorobenze	1.493	1.543	1.592	1.600	1.566	1.550		1.557	2.50
14) 1,2-Dichlorobenze	1.381	1.427	1.466	1.442	1.430	1.415		1.427	1.97
15) Benzyl alcohol	0.705	0.809	0.888	0.897	0.889	0.910		0.850	9.34
16) bis(2-chloroisopr	1.489	1.535	1.619	1.621	1.621	1.642		1.588	3.85
17) 2-Methylphenol	1.044	1.157	1.229	1.238	1.246	1.253		1.195	6.80
18) Acetophenone	1.658	1.672	1.788	1.861	1.822	1.884		1.781	5.37
19) Hexachloroethane	0.549	0.568	0.590	0.593	0.587	0.585		0.579	2.89
20)P N-Nitroso-di-n-pr	0.830	0.916	0.949	0.971	0.975	1.004		0.941	6.58
21) 3&4-Methylphenol	1.140	1.242	1.292	1.328	1.321	1.348		1.278	6.02
22) I Naphthalene-d8	ISTD								
23)S Nitrobenzene-d5	0.355	0.375	0.389	0.387	0.396	0.390		0.382	3.91
24) Nitrobenzene	0.338	0.363	0.373	0.370	0.380	0.378		0.367	4.22
25) Isophorone	0.570	0.610	0.624	0.617	0.637	0.638		0.616	4.02
26)C 2-Nitrophenol	0.188	0.203	0.212	0.208	0.212	0.207		0.205	4.51
27) 2,4-Dimethylpheno	0.333	0.366	0.378	0.375	0.385	0.377		0.369	5.06
28) bis(2-Chloroethox	0.341	0.362	0.380	0.369	0.384	0.383		0.370	4.46
29) Benzoic Acid		0.226	0.259	0.273	0.280	0.281		0.264	8.76
30)C 2,4-Dichloropheno	0.278	0.316	0.326	0.312	0.320	0.313		0.311	5.40
31) 1,2,4-Trichlorobe	0.329	0.338	0.341	0.332	0.337	0.331		0.335	1.31
32) Naphthalene	1.000	1.067	1.094	1.077	1.106	1.077		1.070	3.48
33) 4-Chloroaniline	0.418	0.450	0.456	0.450	0.458	0.447		0.447	3.23
34) 2,6-Dichloropheno	0.276	0.296	0.298	0.288	0.296	0.285		0.290	2.95
35)C Hexachlorobutadie	0.177	0.185	0.191	0.179	0.185	0.176		0.182	3.23
36) Caprolactam	0.118	0.139	0.139	0.143	0.147	0.145		0.139	7.69
37)C 4-Chloro-3-methyl	0.293	0.317	0.330	0.327	0.334	0.335		0.323	4.91
38) 2-Methylnaphthale	0.663	0.709	0.731	0.711	0.729	0.712		0.709	3.44
39) 1-Methylnaphthale	0.649	0.688	0.693	0.679	0.703	0.676		0.681	2.70
40) 1,2,4,5-Tetrachlo	0.328	0.345	0.342	0.331	0.340	0.328		0.336	2.16
41) I Acenaphthene-d10	ISTD								
42)P Hexachlorocyclope	0.120	0.216	0.303	0.322	0.326	0.337		0.271	31.67

---- Linear regr., Force(0,0) ---- Coefficient = 0.9978
Response Ratio = 0.00000 + 0.32655 *A

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF580-ICC580
Lab FileID: F010292.D

43)C	2,4,6-Trichloroph	0.347	0.388	0.403	0.400	0.402	0.398	0.389	5.53
44)	2,4,5-Trichloroph	0.365	0.405	0.427	0.427	0.426	0.426	0.413	6.00
45)S	2-Fluorobiphenyl	1.346	1.394	1.447	1.401	1.412	1.382	1.397	2.40
46)	1,1'-Biphenyl	1.416	1.479	1.544	1.561	1.521	1.551	1.512	3.66
47)	2-Chloronaphthale	1.112	1.181	1.207	1.191	1.196	1.197	1.181	2.94
48)	2-Nitroaniline	0.323	0.360	0.383	0.381	0.392	0.393	0.372	7.13
49)	Acenaphthylene	1.853	1.975	2.038	2.028	2.031	2.020	1.991	3.56
50)	Dimethylphthalate	1.328	1.393	1.404	1.405	1.425	1.420	1.396	2.53
51)	2,6-Dinitrotoluen	0.299	0.325	0.335	0.328	0.335	0.332	0.326	4.22
52)C	Acenaphthene	1.119	1.205	1.235	1.205	1.217	1.206	1.198	3.36
53)	3-Nitroaniline	0.315	0.357	0.368	0.362	0.370	0.371	0.357	5.97
54)P	2,4-Dinitrophenol	0.072	0.129	0.176	0.188	0.207	0.218	0.165	33.29

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9990
Response Ratio = 0.00000 + 0.13865 *A + 0.02606 *A^2

55)	Dibenzofuran	1.639	1.709	1.734	1.723	1.730	1.701	1.706	2.05
56)	2,4-Dinitrotoluen	0.361	0.436	0.437	0.429	0.444	0.437	0.424	7.36
57)P	4-Nitrophenol	0.146	0.169	0.181	0.184	0.186	0.189	0.176	9.17
58)	2,3,4,6-Tetrachlo	0.247	0.286	0.310	0.316	0.311	0.320	0.298	9.27
59)	Fluorene	1.291	1.417	1.422	1.404	1.412	1.393	1.390	3.55
60)	4-Chlorophenyl-ph	0.627	0.661	0.664	0.658	0.659	0.654	0.654	2.09
61)	Diethylphthalate	1.285	1.370	1.405	1.380	1.403	1.400	1.374	3.32
62)	4-Nitroaniline	0.308	0.357	0.366	0.365	0.370	0.370	0.356	6.76
63) I	Phenanthrene-d10	----------ISTD----------							
64)	4,6-Dinitro-2-met	0.139	0.162	0.168	0.169	0.172		0.162	8.21
65)C	n-Nitrosodiphenyl	0.543	0.572	0.590	0.580	0.587	0.582	0.576	2.97
66)	1,2-Diphenylhydra	0.666	0.725	0.749	0.741	0.759	0.732	0.729	4.54
67)S	2,4,6-Tribromophe	0.070	0.078	0.079	0.078	0.079	0.077	0.077	4.59
68)	4-Bromophenyl-phe	0.191	0.193	0.199	0.195	0.200	0.198	0.196	1.78
69)	Hexachlorobenzene	0.172	0.182	0.184	0.180	0.184	0.181	0.180	2.54
70)	Atrazine	0.198	0.217	0.222	0.223	0.222	0.222	0.217	4.48
71)C	Pentachlorophenol	0.057	0.078	0.082	0.086	0.089		0.079	16.19

---- Linear regr., Force(0,0) ---- Coefficient = 0.9997
Response Ratio = 0.00000 + 0.08588 *A

72)	Phenanthrene	1.135	1.168	1.186	1.154	1.172	1.154	1.161	1.50
73)	Anthracene	1.093	1.173	1.213	1.184	1.197	1.175	1.172	3.56
74)	Carbazole	0.994	1.075	1.099	1.076	1.091	1.073	1.068	3.53
75)	Di-n-butylphthala	1.123	1.273	1.328	1.307	1.331	1.312	1.279	6.19
76)C	Fluoranthene	1.083	1.166	1.193	1.165	1.174	1.157	1.156	3.28
77) I	Chrysene-d12	----------ISTD----------							
78)	Benzidine	0.967	0.940	0.891	1.002	0.958		0.952	4.29
79)	Pyrene	1.502	1.597	1.658	1.611	1.611	1.601	1.597	3.20
80)S	Terphenyl-d14	0.880	0.938	0.990	0.962	0.972	0.960	0.950	4.04
81)	Butylbenzylphthal	0.569	0.681	0.744	0.734	0.752	0.741	0.703	10.06
82)	3,3'-Dichlorobenz	0.428	0.495	0.504	0.470	0.495	0.485	0.479	5.83
83)	Benzo[a]anthracen	1.262	1.364	1.421	1.394	1.426	1.419	1.381	4.54
84)	Chrysene	1.260	1.309	1.349	1.303	1.309	1.292	1.304	2.20
85)	bis(2-Ethylhexyl)	0.756	0.912	0.996	0.996	1.008	0.993	0.944	10.41
86) I	Perylene-d12	----------ISTD----------							
87)C	Di-n-octylphthala	1.344	1.760	1.946	1.952	1.937	1.916	1.809	13.22
88)	Benzo[b]fluoranth	1.289	1.436	1.475	1.500	1.512	1.575	1.464	6.65
89)	Benzo[k]fluoranth	1.289	1.435	1.479	1.446	1.397	1.348	1.399	5.01
90)C	Benzo[a]pyrene	1.218	1.363	1.420	1.403	1.418	1.413	1.373	5.72
91)	Indeno[1,2,3-cd]p	0.981	1.118	1.158	1.177	1.203	1.252	1.148	8.14
92)	Dibenz[a,h]anthra	0.929	1.063	1.125	1.187	1.189	1.198	1.115	9.40

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL
Sample: SF580-ICC580
Lab FileID: F010292.D

93) Benzo[g,h,i]peryl 1.133 1.260 1.265 1.280 1.296 1.317 1.258 5.14

(#) = Out of Range

8270C.M Thu Jul 14 14:42:39 2005

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL
Sample: SF580-ICV580
Lab FileID: F010295.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\071405\F010295.D Vial: 8
Acq On : 14 Jul 2005 12:53 pm Operator: nareshj
Sample : icv580-50 Inst : MS-F
Misc : op13711,sf580,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Jul 14 13:35:24 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	90	0.00	4.58
2		1,4-Dioxane	50.000	55.696	-11.4	0	0.02	2.11
3		N-nitrosodimethylamine	50.000	45.987	8.0	0	0.01	2.43
4		Pyridine	50.000	46.323	7.4	0	0.01	2.45
5		Benzaldehyde	50.000	61.723	-23.4#	0	0.00	4.26
6		Aniline	50.000	43.142	13.7	0	0.00	4.34
7	S	2-Fluorophenol		----------NA----------				
8		bis(2-Chloroethyl)ether	50.000	55.564	-11.1	0	0.00	4.39
9	S	Phenol-d5		----------NA----------				
10	C	Phenol	50.000	50.691	-1.4	0	0.00	4.36
11		2-Chlorophenol	50.000	51.931	-3.9	0	0.00	4.43
12		1,3-Dichlorobenzene	50.000	51.302	-2.6	0	0.00	4.53
13	C	1,4-Dichlorobenzene	50.000	51.161	-2.3	0	0.00	4.59
14		1,2-Dichlorobenzene	50.000	52.181	-4.4	0	0.00	4.70
15		Benzyl alcohol	50.000	50.234	-0.5	0	0.00	4.70
16		bis(2-chloroisopropyl)eth	50.000	51.483	-3.0	0	0.00	4.79
17		2-Methylphenol	50.000	51.754	-3.5	0	0.00	4.80
18		Acetophenone	50.000	51.803	-3.6	0	0.00	4.89
19		Hexachloroethane	50.000	51.677	-3.4	0	0.00	4.96
20	P	N-Nitroso-di-n-propylamin	50.000	51.464	-2.9	0	0.00	4.90
21		3&4-Methylphenol	100.000	102.663	-2.7	0	0.00	4.92
22	I	Naphthalene-d8	40.000	40.000	0.0	89	0.00	5.64
23	S	Nitrobenzene-d5		----------NA----------				
24		Nitrobenzene	50.000	51.266	-2.5	0	0.00	5.03
25		Isophorone	50.000	53.643	-7.3	0	0.00	5.23
26	C	2-Nitrophenol	50.000	51.967	-3.9	0	0.00	5.30
27		2,4-Dimethylphenol	50.000	51.303	-2.6	0	0.00	5.36
28		bis(2-Chloroethoxy)methan	50.000	50.217	-0.4	0	0.00	5.43
29		Benzoic Acid	100.000	110.250	-10.3	0	0.00	5.54
30	C	2,4-Dichlorophenol	50.000	52.482	-5.0	0	0.00	5.53
31		1,2,4-Trichlorobenzene	50.000	51.577	-3.2	0	0.00	5.59
32		Naphthalene	50.000	50.918	-1.8	0	0.00	5.67
33		4-Chloroaniline	50.000	27.985	44.0#	0	0.00	5.74
34		2,6-Dichlorophenol	50.000	53.387	-6.8	0	0.00	5.74
35	C	Hexachlorobutadiene	50.000	51.749	-3.5	0	0.00	5.78
36		Caprolactam	50.000	51.637	-3.3	0	0.00	6.14
37	C	4-Chloro-3-methylphenol	50.000	50.548	-1.1	0	0.00	6.29
38		2-Methylnaphthalene	50.000	49.251	1.5	0	0.00	6.41
39		1-Methylnaphthalene	50.000	50.790	-1.6	0	0.00	6.53
40		1,2,4,5-Tetrachlorobenzen	50.000	49.774	0.5	0	0.00	6.62

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL
Sample: SF580-ICV580
Lab FileID: F010295.D

41	I	Acenaphthene-d10	40.000	40.000	0.0	90	0.00	7.81
		---------- Amount	Calc.	%Drift	----------			
42	P	Hexachlorocyclopentadiene	50.000	45.956	8.1	0	0.00	6.60
		---------- Amount	Calc.	%Drift	----------			
43	C	2,4,6-Trichlorophenol	50.000	51.560	-3.1	0	0.00	6.78
44		2,4,5-Trichlorophenol	50.000	50.913	-1.8	0	0.00	6.84
45	S	2-Fluorobiphenyl		----------NA----------				
46		1,1'-Biphenyl	50.000	51.266	-2.5	0	0.00	7.01
47		2-Chloronaphthalene	50.000	50.225	-0.5	0	0.00	7.03
48		2-Nitroaniline	50.000	47.962	4.1	0	0.00	7.20
49		Acenaphthylene	50.000	50.112	-0.2	0	0.00	7.60
50		Dimethylphthalate	50.000	52.069	-4.1	0	-0.01	7.48
51		2,6-Dinitrotoluene	50.000	49.785	0.4	0	0.00	7.56
52	C	Acenaphthene	50.000	50.520	-1.0	0	0.00	7.86
53		3-Nitroaniline	50.000	26.575	46.9#	0	0.00	7.80
		---------- Amount	Calc.	%Drift	----------			
54	P	2,4-Dinitrophenol	100.000	94.826	5.2	0	0.00	7.98
		---------- Amount	Calc.	%Drift	----------			
55		Dibenzofuran	50.000	48.039	3.9	0	0.00	8.13
56		2,4-Dinitrotoluene	50.000	51.372	-2.7	0	0.00	8.18
57	P	4-Nitrophenol	100.000	100.715	-0.7	0	0.00	8.18
58		2,3,4,6-Tetrachlorophenol	50.000	47.411	5.2	0	0.00	8.36
59		Fluorene	50.000	50.437	-0.9	0	0.00	8.68
60		4-Chlorophenyl-phenylethe	50.000	52.684	-5.4	0	0.00	8.72
61		Diethylphthalate	50.000	52.195	-4.4	0	0.00	8.60
62		4-Nitroaniline	50.000	43.973	12.1	0	0.00	8.80
63	I	Phenanthrene-d10	40.000	40.000	0.0	90	0.00	10.28
64		4,6-Dinitro-2-methylpheno	100.000	108.701	-8.7	0	0.00	8.85
65	C	n-Nitrosodiphenylamine	50.000	51.509	-3.0	0	0.00	8.94
66		1,2-Diphenylhydrazine	50.000	52.620	-5.2	0	0.00	8.99
67	S	2,4,6-Tribromophenol		----------NA----------				
68		4-Bromophenyl-phenylether	50.000	52.003	-4.0	0	0.00	9.54
69		Hexachlorobenzene	50.000	51.441	-2.9	0	0.00	9.59
70		Atrazine	50.000	52.269	-4.5	0	0.00	9.96
		---------- Amount	Calc.	%Drift	----------			
71	C	Pentachlorophenol	100.000	102.061	-2.1	0	0.00	9.99
		---------- Amount	Calc.	%Drift	----------			
72		Phenanthrene	50.000	51.386	-2.8	0	0.00	10.32
73		Anthracene	50.000	49.569	0.9	0	0.00	10.41
74		Carbazole	50.000	47.366	5.3	0	0.00	10.76
75		Di-n-butylphthalate	50.000	51.853	-3.7	0	0.00	11.55
76	C	Fluoranthene	50.000	52.062	-4.1	0	0.00	12.48
77	I	Chrysene-d12	40.000	40.000	0.0	88	0.00	15.19
78		Benzidine		----------NA----------				
79		Pyrene	50.000	52.071	-4.1	0	0.00	12.88
80	S	Terphenyl-d14		----------NA----------				
81		Butylbenzylphthalate	50.000	53.149	-6.3	0	0.00	14.35
82		3,3'-Dichlorobenzidine	50.000	1.596	96.8#	0	0.00	15.22
83		Benzo[a]anthracene	50.000	51.606	-3.2	0	0.00	15.16
84		Chrysene	50.000	53.016	-6.0	0	0.00	15.23
85		bis(2-Ethylhexyl)phthalat	50.000	54.316	-8.6	0	0.00	15.54

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL
Sample: SF580-ICV580
Lab FileID: F010295.D

86	I	Perylene-d12	40.000	40.000	0.0	87	0.00	17.68
87	C	Di-n-octylphthalate	50.000	56.471	-12.9	0	0.00	16.73
88		Benzo[b]fluoranthene	50.000	51.057	-2.1	0	0.00	17.07
89		Benzo[k]fluoranthene	50.000	53.773	-7.5	0	0.00	17.12
90	C	Benzo[a]pyrene	50.000	49.758	0.5	0	0.00	17.58
91		Indeno[1,2,3-cd]pyrene	50.000	52.753	-5.5	0	0.00	19.26
92		Dibenz[a,h]anthracene	50.000	50.257	-0.5	0	0.00	19.32
93		Benzo[g,h,i]perylene	50.000	50.746	-1.5	0	0.00	19.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F010295.D 8270C.M Thu Jul 14 14:44:55 2005

Continuing Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF589-CC580
Lab FileID: F010525.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\072705\F010525.D Vial: 2
Acq On : 27 Jul 2005 9:33 am Operator: nareshj
Sample : cc580-75 Inst : MS-F
Misc : op13884,sf589,30.8,,,1,1,soil Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Tue Jul 26 14:28:24 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	79	0.00	4.50
2		1,4-Dioxane	0.397	0.424	-6.8	82	-0.08	1.98
3		N-nitrosodimethylamine	0.617	0.660	-7.0	80	-0.06	2.32
4		Pyridine	1.106	1.150	-4.0	82	-0.05	2.36
5		Benzaldehyde	0.744	0.552	25.8#	91	0.00	4.18
6		Aniline	1.923	1.981	-3.0	79	-0.01	4.27
7	S	2-Fluorophenol	1.191	1.251	-5.0	79	-0.02	3.54
8		bis(2-Chloroethyl)ether	1.075	1.123	-4.5	79	0.00	4.32
9	S	Phenol-d5	1.573	1.690	-7.4	82	-0.03	4.29
10	C	Phenol	1.599	1.647	-3.0	82	0.00	4.29
11		2-Chlorophenol	1.355	1.430	-5.5	81	0.00	4.36
12		1,3-Dichlorobenzene	1.512	1.566	-3.6	80	-0.01	4.46
13	C	1,4-Dichlorobenzene	1.557	1.619	-4.0	80	0.00	4.51
14		1,2-Dichlorobenzene	1.427	1.482	-3.9	81	0.00	4.62
15		Benzyl alcohol	0.850	0.961	-13.1	85	0.00	4.63
16		bis(2-chloroisopropyl)eth	1.588	1.722	-8.4	84	0.00	4.71
17		2-Methylphenol	1.195	1.303	-9.0	83	0.00	4.72
18		Acetophenone	1.781	1.920	-7.8	82	0.00	4.82
19		Hexachloroethane	0.579	0.609	-5.2	81	-0.01	4.88
20	P	N-Nitroso-di-n-propylamin	0.941	1.068	-13.5	87	0.00	4.82
21		3&4-Methylphenol	1.278	1.398	-9.4	83	0.00	4.85
22	I	Naphthalene-d8	1.000	1.000	0.0	80	0.00	5.55
23	S	Nitrobenzene-d5	0.382	0.400	-4.7	82	0.00	4.94
24		Nitrobenzene	0.367	0.385	-4.9	83	0.00	4.95
25		Isophorone	0.616	0.687	-11.5	89	0.00	5.16
26	C	2-Nitrophenol	0.205	0.218	-6.3	83	0.00	5.21
27		2,4-Dimethylphenol	0.369	0.401	-8.7	85	0.00	5.27
28		bis(2-Chloroethoxy)methan	0.370	0.397	-7.3	86	0.00	5.34
29		Benzoic Acid	0.264	0.314	-18.9	92	-0.01	5.43
30	C	2,4-Dichlorophenol	0.311	0.336	-8.0	86	0.00	5.44
31		1,2,4-Trichlorobenzene	0.335	0.346	-3.3	83	0.00	5.50
32		Naphthalene	1.070	1.129	-5.5	84	0.00	5.57
33		4-Chloroaniline	0.447	0.486	-8.7	86	0.00	5.64
34		2,6-Dichlorophenol	0.290	0.312	-7.6	86	0.00	5.65
35	C	Hexachlorobutadiene	0.182	0.187	-2.7	83	0.00	5.69
36		Caprolactam	0.139	0.175	-25.9#	97	0.00	6.05
37	C	4-Chloro-3-methylphenol	0.323	0.362	-12.1	88	0.00	6.19
38		2-Methylnaphthalene	0.709	0.775	-9.3	87	0.00	6.30
39		1-Methylnaphthalene	0.681	0.744	-9.3	87	0.00	6.42
40		1,2,4,5-Tetrachlorobenzen	0.336	0.359	-6.8	86	0.00	6.51

Job Number: F33504 Sample: SF589-CC580
Account: TETFLTAM Tetra Tech NUS Lab FileID: F010525.D
Project: Former American Beryllium, Sarasota, FL

41	I	Acenaphthene-d10	1.000	1.000	0.0	87	-0.01	7.69
			Amount	Calc.	%Drift			
42	P	Hexachlorocyclopentadiene	75.000	70.053	6.6	83	0.00	6.49
			AvgRF	CCRF	%Dev			
43	C	2,4,6-Trichlorophenol	0.389	0.416	-6.9	91	-0.01	6.67
44		2,4,5-Trichlorophenol	0.413	0.447	-8.2	91	0.00	6.73
45	S	2-Fluorobiphenyl	1.397	1.414	-1.2	88	0.00	6.77
46		1,1'-Biphenyl	1.512	1.521	-0.6	85	-0.01	6.90
47		2-Chloronaphthalene	1.181	1.212	-2.6	89	-0.01	6.91
48		2-Nitroaniline	0.372	0.421	-13.2	96	-0.01	7.08
49		Acenaphthylene	1.991	2.121	-6.5	91	0.00	7.49
50		Dimethylphthalate	1.396	1.539	-10.2	96	0.00	7.38
51		2,6-Dinitrotoluene	0.326	0.362	-11.0	96	0.00	7.45
52	C	Acenaphthene	1.198	1.274	-6.3	92	0.00	7.74
53		3-Nitroaniline	0.357	0.401	-12.3	97	0.00	7.70
			Amount	Calc.	%Drift			
54	P	2,4-Dinitrophenol	75.000	82.850	-10.5	99	0.00	7.86
			AvgRF	CCRF	%Dev			
55		Dibenzofuran	1.706	1.805	-5.8	92	0.00	8.01
56		2,4-Dinitrotoluene	0.424	0.485	-14.4	99	0.00	8.07
57	P	4-Nitrophenol	0.176	0.222	-26.1#	106	0.00	8.07
58		2,3,4,6-Tetrachlorophenol	0.298	0.348	-16.8	96	0.00	8.24
59		Fluorene	1.390	1.515	-9.0	94	0.00	8.55
60		4-Chlorophenyl-phenylethe	0.654	0.701	-7.2	93	0.00	8.60
61		Diethylphthalate	1.374	1.569	-14.2	99	0.00	8.49
62		4-Nitroaniline	0.356	0.414	-16.3	99	0.00	8.68
63	I	Phenanthrene-d10	1.000	1.000	0.0	95	-0.01	10.13
64		4,6-Dinitro-2-methylpheno	0.162	0.173	-6.8	98	-0.01	8.73
65	C	n-Nitrosodiphenylamine	0.576	0.587	-1.9	97	-0.01	8.82
66		1,2-Diphenylhydrazine	0.729	0.765	-4.9	99	-0.02	8.86
67	S	2,4,6-Tribromophenol	0.077	0.079	-2.6	97	-0.02	8.97
68		4-Bromophenyl-phenylether	0.196	0.197	-0.5	97	0.00	9.42
69		Hexachlorobenzene	0.180	0.185	-2.8	98	-0.01	9.46
70		Atrazine	0.217	0.243	-12.0	104	0.00	9.83
			Amount	Calc.	%Drift			
71	C	Pentachlorophenol	75.000	84.983	-13.3	113	0.00	9.86
			AvgRF	CCRF	%Dev			
72		Phenanthrene	1.161	1.200	-3.4	99	0.00	10.18
73		Anthracene	1.172	1.236	-5.5	100	0.00	10.27
74		Carbazole	1.068	1.151	-7.8	102	0.00	10.63
75		Di-n-butylphthalate	1.279	1.448	-13.2	106	0.02	11.43
76	C	Fluoranthene	1.156	1.258	-8.8	103	0.01	12.34
77	I	Chrysene-d12	1.000	1.000	0.0	102	0.00	15.04
78		Benzidine	0.952	0.918	3.6	105	-0.02	12.72
79		Pyrene	1.597	1.634	-2.3	103	-0.03	12.74
80	S	Terphenyl-d14	0.950	0.982	-3.4	104	-0.01	13.17
81		Butylbenzylphthalate	0.703	0.789	-12.2	109	0.00	14.22
82		3,3'-Dichlorobenzidine	0.479	0.520	-8.6	112	0.00	15.09
83		Benzo[a]anthracene	1.381	1.469	-6.4	107	0.00	15.03
84		Chrysene	1.304	1.369	-5.0	107	0.00	15.10
85		bis(2-Ethylhexyl)phthalat	0.944	1.074	-13.8	110	0.01	15.42

Continuing Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF589-CC580
Lab FileID: F010525.D

86	I	Perylene-d12	1.000	1.000	0.0	105	0.00	17.53
87	C	Di-n-octylphthalate	1.809	2.113	-16.8	113	0.00	16.61
88		Benzo[b]fluoranthene	1.464	1.558	-6.4	109	-0.01	16.93
89		Benzo[k]fluoranthene	1.399	1.479	-5.7	107	0.00	16.99
90	C	Benzo[a]pyrene	1.373	1.467	-6.8	110	0.00	17.45
91		Indeno[1,2,3-cd]pyrene	1.148	1.234	-7.5	110	0.00	19.12
92		Dibenz[a,h]anthracene	1.115	1.227	-10.0	108	0.00	19.17
93		Benzo[g,h,i]perylene	1.258	1.338	-6.4	109	0.00	19.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F010292.D 8270C.M Wed Jul 27 13:00:35 2005