Chain of Custody



Aleha	СНА	IN OF CU	STOI	DY PA	AGE	OF	Date Re	c'd in La	b: 7	2/1/1	6	ALP	HA Job	#: 4162042	23
AND STIGAL	i metione	Project	Informat	ion			Repor	t Informa	ation - Da	ta Delive	rable	The same of	ng Inform		
8 Walkup Drivi Westboro, MA Tel: 508-898-	01581 Mansfield, MA 02	048 Project N	lame: PEI	NOBSCO	TRI	IER	□ADE	x	MEMAII			A Sai	me as Clier	it info PO#:	
Client Informati	on		ocation: PE				THE RESERVE TO BE ADDRESS OF THE PERSON NAMED IN	Marin Control						uirements	
Client: AMEC F	OSTER WHEET		3616				☐ Yes Æ	No Matr	MCP Analy ix Spike Re	quired on	this S	DG? (Requ	ired for MC	CT RCP Analytical Metho P Inorganics)	ds
	INGRESS ST S	to the second	lanager: R			MON	☐ Yes X	No GW	1 Standards DES RGP	(Info Req	uired	for Metals 8	EPH with	Targets)	
	AND ME 04	1.57V2X a.5	Quote #:						d Program				_ Criteria_		_
Phone: (207)	75-5401	Turn-A	Around Tir	ne				//	7 75	2/3/	>/	1 /35	13/		
Email: rod. pen	dietorpameco	Stand	dard □	I RUSH (only o	confirmed if pre-a	pproved!)	8	/ /	DRCP 1	Ranges Only	5/	167	Plashc		-
Additional	Project Information	Data F					ANALYSIS	U 524.2	DRCP 14	D Ran	//	24500 (11 Silver)		SAMPLE INFO	O T
CONTACT DE	ENISE KING W	QUESTIONS:	(978)	692-	9090		AN.	101	0 0	rgets	10	137	///	Filtration	Ê
AIRBILL:	8094 0561	9706	(,)				0	DABN D	CRAS SE TA	EST EST	Only	30	//	Field Lab to do	#
							D 8260	D ABN	Range	Range	Quant	248	///	Preservation ☐ Lab to do	B T T L
ALPHA Lab ID	Sami	ole ID		ection	Sample		Voc:	METALS:	EPH: DRanges & Tarres	D PCB D PEST	Oquant Only	3/2/	///		E
(Lab Use Only)			Date	Time	Matrix	Initials	1 - 1 3	/ - / -	1 1	14/2		777	11	Sample Comments	
	OV-02_121.0253				SW	KB		+ +	+-	++	12		++		3
<u>Ud</u>	WQ16-002	916_SW_10	6/29/16	1040					++-	++-	2	1	- 4		3
	WQ2-C_063	016-SW-10	10/30/sle	0900	-	-1-			-		2	1			3
oy	WQ3-L_062	916_SW_10	6/29/16	0935							2	1			3
05	ES-15_0429	16 _SW_10		0900							2	1			3
06	WQ-ECH_ 062	916_SW_10		0745							2	1			3
04	WQ-FPT_062	916-SW-10		0825							2	1			3
68	WQ-ECH _ 0102916	_ SMLIO_DUP		0745							2	1			3
	WQ-ECH_0629 14			1	_						2	11		MATRIX SPIKE	3
-51/	WQ-ECH_UDZ9116		¥	+	V	4					2	1		MATRIX SPIKE DUP	3
Container Type P= Plastic	Preservative A= None				Conta	ainer Type					A	P			30
A= Amber glass V= Vial G= Glass	B= HCI C= HNO ₃ D= H ₂ SO ₄				Pr	eservative					D	A			
B= Bacteria cup C= Cube O= Other	E= NaOH F= MeOH G= NaHSO4		ished By:	1		e/Time		Recei	ived By:	1	1	Date/Time	All sar	mples submitted are subject	ct to
E= Encore D= BOD Bottle	H = Na ₂ S ₂ O ₃ l≃ Ascorbic Acid J = NH ₄ Cl	() elie Pa	Moz	20	10/30	116 1130		7	w	D	1	1110		s Terms and Conditions everse side	
	K= Zn Acetate													IO 01-01 (rev 12-Mar-2012)	

Wet Chemistry



Total Suspended Solids Analysis

Sample Raw Data

ALPHA ANALYTICAL LABS WET CHEMISTRY DEPARTMENT

Last Change 3/4/13

File tss.xlt

2540D (PPB)

2540D

TOTAL SUSPENDED SOLIDS

Filter Lot T60274

Sample Number: Oven C

In104 15:45

Product: TSS-2540 Analyte: Solids, Total Suspended

Client:

Out 23:06 In 0:09 Analysis Date: 7/5/2016 14:20

Technician: SG

Analysis: T S S Method: SM 2540D Out 2:00

Work group: WG910187

RDL: 5.0 mg/l

Get Samples

Save to LIMS

METHODS

	3										
ŗ	Sample Number	Symbol	Tare Weight (gm)	Sample Volume (ml)	Net Weight(1) (gm)	Net Weight(2) (gm)	Net Weight(3) (gm)	Net Weight(4) (gm)	RDL MULT.	RESULT mg/l	1
BLANK	WG910187-1	324	0.4348	1000	0.4335	0.4335				0.00	
DUP	WG910187-2	325	0.4325	1010	0.4451	0.4448				12.18	L1620423-06
	L1620347-01	326	0.4341	1020	0.4495	0.4492				14.80	
	L1620423-01	327	0.4352	1100	0.4355	0.4355				0.27	
	L1620423-02	328	0.4336	1010	0.4849	0.4846				50.50	
	L1620423-03	329	0.4338	1030	0.4410	0.4408				6.80	
	L1620423-04	330	0.4346	1030	0.4590	0.4588				23.50	
	L1620423-05	331	0.4329	1010	0.4440	0.4438				10.79	
	L1620423-06	332	0.4339	1000	0.4449	0.4447				10.80	
	L1620423-07	333	0.4349	1010	0.4417	0.4415				6.53	
	L1620423-08	334	0.4292	1000	0.4396	0.4393				10.10	
	L1620495-01	335	0.4301	150	0.4665	0.4661			6	240.00	
		DUP-TA	ARE:	0.44480	0.43250	0.01230				27652.88	
		Sample	-TARE:	0.44470	0.43390	0.01080				24286.04	
		DUP we	eight (g) on t	he filter:		0.01230					
		Sample	weight (g)	on the filter	:	0.01080					
		Ave we	ight (g) on th	ne filter:		0.01155					
		DUP%:				106.5					
		Sample	%:			93.5					

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jul 10 2016, 11:21 am

Work Group: WG910187 for Department: 7 Wet Chemistry

Created: 05-JUL-16 Due: Operator: SG

1620347-01 OUTFALL-1 S TSS-2540 WATER DONE U 0706 0708 S0 Plastic-Al 1620423-01 OV-02_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-02 WQ161B-C_062916_SW_1 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-03 WQ2-C_063016_SW_10 S TSS-2540 WATER DONE U 0707 0711 S0 Plastic-Al 1620423-04 WQ3-L_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-05 ES-15_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-06 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-07 WQ-FPT_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 16204	Sample	Client ID	C Product	Matrix	Stat UA HOLD DUE PR Location
1620423-01	bampie	CITCHE 1D	C FIOGUCE	MACIIX	Stat OA HOLD DOE FR HOCACION
1620423-01					
1620423-02 WQ161B-C_062916_SW_1 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-03 WQ2-C_063016_SW_10 S TSS-2540 WATER DONE U 0707 0711 S0 Plastic-Al 1620423-04 WQ3-L_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-05 ES-15_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-06 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-07 WQ-FPT_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620495-01 OUTFALL 2 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620495-01 OUTFALL 2 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620495-01 Duplicate Sample S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 0706 0711	L1620347-01	OUTFALL-1	S TSS-2540	WATER	
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1620423-06 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-07 WQ-FPT_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 0706 0711	L1620423-05	ES-15_062916_SW_10	S TSS-2540	WATER	DONE U 0706 0711 S0 Plastic-A1
1620423-07 WQ-FPT_062916_SW_10 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620423-08 WQ-ECH_062916_SW_10_ S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 070495-01 OUTFALL 2 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 070495-01 WATER DONE U 0706 0711	L1620423-06				
1620423-08 WQ-ECH_062916_SW_10_ S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 1620495-01 OUTFALL 2 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 070187-1 Laboratory Method Bl S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al 070187-1 WATER DONE U 0706 0711 S0 Plastic-Al 070187-1 WATER DONE U 070187-1 WATE	L1620423-07				
1620495-01 OUTFALL 2 S TSS-2540 WATER DONE U 0706 0711 S0 Plastic-Al G910187-1 Laboratory Method Bl S TSS-2540 WATER DONE U Duplicate Sample S TSS-2540 WATER DONE U DONE U S TSS-2540 WATER DONE U DO					
G910187-1 Laboratory Method Bl S TSS-2540 WATER DONE U G910187-2 Duplicate Sample S TSS-2540 WATER DONE U comments:					
G910187-2 Duplicate Sample S TSS-2540 WATER DONE U comments:					
	WG910187-2				
Q910187-2 L1620423-06	Comments:				
93/0/207-2 LICEWYES-700	WC010107 2	11620422 06			
	WG910167-2	L1020423-00			

Page 1

Organic Carbon Analysis

Sequence Logs

Alpha Analytical, Inc.

Facility: Westborough, MA Department: Wet Chemistry

Title: TOC 3 Run Log - Shimadzu Zebra

ID: 20677

Revision: 1

Published Date: 3/10/2016 10:26:50 AM

Page 23 of 51

DATE:	THE 070514		STOCK	K STDS ID INFO:		WORKING ST	DS ID IN	NFO:	
ANALYST			LOT #	s:		LOT #'s:			
CURVE IN				PM CURVE SLN: TVC					
CURVE IN	NUSE: 050916 TUL-	3	2000 P	PM ICV/LCS/SPK SLN:	דטני טק	0916 - 2 PPM LCS:	かい	- 04	1516- ics
				PM IC CK STD SLN: אין		16 - 4 PPM SPK:	TUC		70516-5pk
					RYV	O 10 PPM IC CK	STD:	NC-	070516- EC
POSITION	SAMPLE	DIL X	PH	COMMENTS		SAMPLE	DIL X	PH	COMMENTS
	NE		1		77	20423-6M	1		
7	Icv zama				9-8	-CMS	2		
3	ters FCB2				29	CCO zpm			
4	my >E	1			30	cus			4
5	ies zami, zá	7151	6			//		-	
6	¥							-	
7	20423.1	2	2				-	-	_
8	2	l	2	C. L. Sattle		- / -	-	-	
9	3	2	2	See 20715/16	ļ	-		-	
lo	4	7	1					-	
11	3	2	1		-	 	-	-	
12	4	1	1		-		-	-	
13	7	1	1		-	 		-	+
18	8	て	1		-	 	-	+-	
_	co zimm				-	 		+	
16	uh 10715	6	2		-			+	
17	2 DY 13. X3	1	2			1			
13	84	1	1			1//		1	
PI	6	+	2			V		1	
10	7	+-	2						
71	1 3	-	12						
23	-000	1	3						
23	-06pm	1	2						
37	CCUTION	1							
90	CCB								

Document Type: Form

Pre-Qualtrax Document ID: N/A

Sample Raw Data

ALPHA ANALYTICAL LABS **BACTERIA DEPARTMENT**

Last Change 03/4/13 GFF File TOC/DOC.xlt

DISSOLVED ORGANIC CARBON

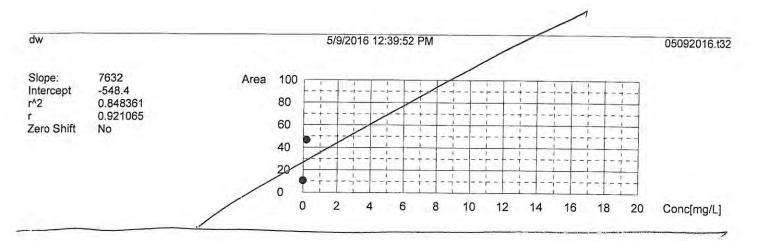
Sample Number: Client:				An	Analyte:	DOC-9060 Dissolved Organ 7/5/2016 8:26	ic Carbon,
Chent.		i			Technician:		
Analysis:	DOC				Vork group:		
TOC Instrument ID:						1.0 mg/l	
Method:	EPA-9060	a () l	2		ge Number:	7/5/2016 0.26	
		Conc. (ppm): Conc(ppm):		Prepar	ation Date:	7/5/2016 8:26	
	Брик	conc(ppin).	<u> </u>	MDL	RESULT		
	Sample Number	COMM	ENTS	Multiplier	mg/L		
DUP	WG910195-3			1	0.25	L1620423-06	
	L1620423-01	docs	s ff	2	4.66		
	L1620423-02			2	3.89		
	L1620423-03			1	0.76		
	L1620423-04			1	0.41		
	L1620423-05			1	0.27		
	L1620423-06			1	0.22		
	L1620423-07			1	0.34		
	L1620423-08			1	0.24		
BLANK	WG910195-1		Sample	1 Spike	0.02 Spike		
		Comments	Result	Conc	Result	% Rec	
MS	WG910195-4		0	8	2.11	26	L16204
						i e	1

2

2.03

102

LCS WG910195-2



Cal. Curve

Sample Name: Sample ID:

Cal. Curve:

Status

05092016 toc-3 curve

05092016 toc-3.2016_05_09_09_55_51.cal

Completed

Туре	Anal.
Standard	NPOC

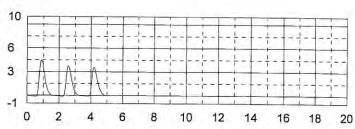
Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	11.55	2500uL	1	******	E	5/9/2016 10:04:29 AM
2	9.448	2500uL	1	*****		5/9/2016 10:09:05 AM
3	9.120	2500uL	1	******		5/9/2016 10:13:42 AM

Acid Add.

Sp. Time Mean Area 3.000% 180.0sec 9.284

Signal[mV] 10



Time[min]

TOC-3 curve 050916

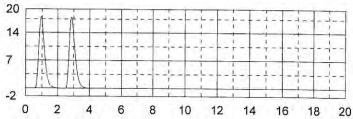
Conc: 0.2000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	46.87	2500uL	1	******		5/9/2016 10:24:17 AM
2	46.35	2500uL	1	*****		5/9/2016 10:28:33 AM

Acid Add.

Sp. Time Mean Area 3.000% 180.0sec

180.0se 46.61 Signal[mV] 20



Time[min]

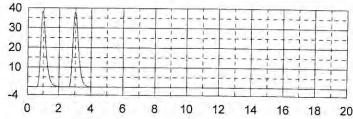
Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	98.92	2500uL	1	*****		5/9/2016 10:39:31 AM
2	96.85	2500uL	1	*****		5/9/2016 10:43:42 AM

Acid Add. Sp. Time Mean Area

3.000% 180.0sec 97.89

Signal[mV]



Time[min]

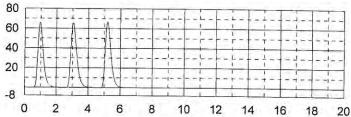
Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	168.5	2500uL	1	******		5/9/2016 10:54:43 AM
2	174.4	2500uL	1	*****	E	5/9/2016 10:59:04 AM
3	171.1	2500uL	1	*****		5/9/2016 11:03:17 AM

Acid Add. Sp. Time Mean Area

3.000% 180.0sec 169.8

Signal[mV] 80



Time[min]

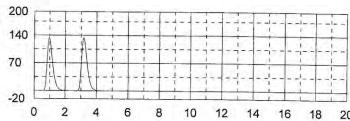
Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	346.8	2500uL	1	******		5/9/2016 11:14:09 AM
2	349.8	2500uL	1	*****		5/9/2016 11:18:27 AM

Acid Add.

Sp. Time Mean Area 3.000% 180.0sec 348.3

Signal[mV] 200



Time[min]

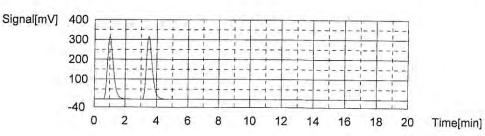
Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	850.0	2500uL	1	*****		5/9/2016 11:29:52 AM
2	841.4	2500uL	1	*****		5/9/2016 11:34:29 AM

Time[min]

Conc[mg/L]

Acid Add. Sp. Time Mean Area 3.000% 180.0sec 845.7



Conc: 10.00mg/L

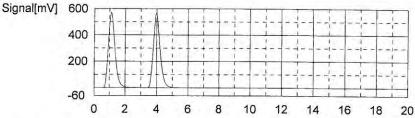
No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1710	2500uL	1	*****		5/9/2016 11:46:16 AM
2	1721	2500uL	1	*****		5/9/2016 11:52:21 AM

Acid Add. Sp. Time

3.000% 180.0sec

Mean Area

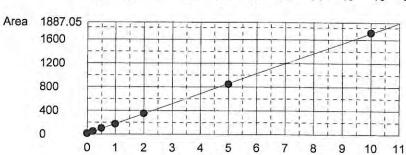
1716



Slope: Intercept r^2

170.2 7.247 0.999863 0.999932

Zero Shift No



Time[min]

Instr.Information

System Detector

TOC-VW Wet Chemical

Sample

Sample Name: Sample ID: Origin: Status

di

toc-3 4 reps method.met Completed

Chk. Result

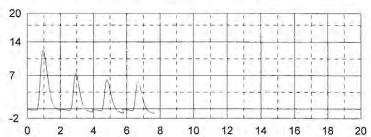
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.09891mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.		Cal. Cur	ve			Date	/ Time	
1	39.46	0.1893mg/L	2500uL	1		05092016	toc-3.201	6_05	09	09	7/5/2016	7:36:13	3 AN
2	21.49	0.08370mg/L	2500uL	. 1		05092016	toc-3.201	6_05	09	09	7/5/2016	7:40:2	1 AN
3	18.29	0.06489mg/L	2500uL	1		05092016	toc-3.201	6_05	09	09	7/5/2016	7:44:3	7 AN
4	17.08	0.05778mg/L	2500uL	. 1		05092016	toc-3.201	6_05	09	09	7/5/2016	7:48:5	4 AN

Mean Area Mean Conc. 24.08 0.09891mg/L Signal[mV] 20



Sample

Sample Name:

ic ck std 10ppm

Sample ID: Origin:

toc-3 4 reps method.met

Status

Completed

Chk. Result

Type	Anal.	Dil.	Result	
Unknown	NPOC	1.000		NPOC:0.1356mg/L



1. Det

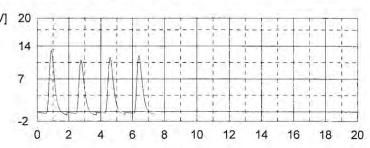
dw

Anal.: NPOC

No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	33.56	0.1546mg/	L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 7:59:42 AN
2	27.63	0.1198mg/	L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 8:04:53 AN
3	29.49	0.1307mg/	L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 8:10:30 AN
4	30.59	0.1372mg/	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 8:15:41 AN

Mean Area Mean Conc. 30.32 0.1356mg/L

Signal[mV] 20



Time[min]

Sample

Sample Name: Sample ID: Origin: Status

icv 2ppm

Chk. Result

toc-3 4 reps method.met	
Completed	

Type	Anal.	Dil.	Result
Jnknown	NPOC	1.000	NPOC:2.065mg



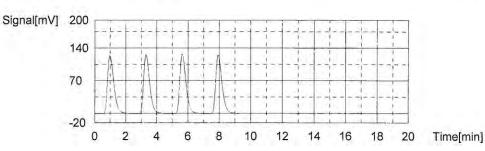
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve			Date	/ Time	
1	361.7	2.083mg/L	2500uL	1		05092016 toc-3.2016_05	09	09	7/5/2016	8:26:55	AN
2	356.1	2.050mg/L	2500uL	-1		05092016 toc-3.2016 05	09	09	7/5/2016	8:31:21	AN
3	357.1	2.056mg/l	2500uL	1		05092016 toc-3.2016_05	09	09	7/5/2016	8:35:45	AN
4	359.7	2.071mg/l	2500uL	1		05092016 toc-3.2016_05	09	09	7/5/2016	8:40:10	AN



358.7 2.065mg/L



Sample

Sample Name: Sample ID: Origin: Status

icb

toc-3 4 reps method.met

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.02288mg/L

Time[min]

1. Det

Anal.: NPOC

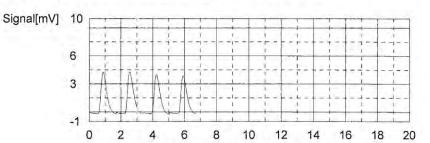
No.	Area	Conc.	lnj. Vol.	Aut. Ex.	. Cal. Curve	Date / Time
1	11.66	0.02593mg/l	2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 8:50:46 AN
		0.02617mg/l			05092016 toc-3.2016_05_09_09	7/5/2016 8:55:28 AN
3	10.79	0.02082mg/l	2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 9:00:04 AN
4	10.41	0.01859mg/l	2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 9:04:39 AN

Mean Area

11.14

Mean Conc.

0.02288mg/L



Sample

Sample Name: Sample ID: Origin: Status

mb

toc-3 4 reps method.met

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.02341mg/L

0.02

1. Det

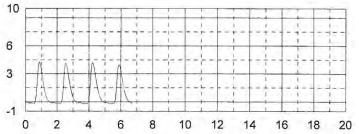
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. E	x. Cal. Curve	Date / Time
1	11.49	0.02493mg	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 9:15:15 AN
2	11.23	0.02341mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 9:19:52 AN
3	11.35	0.02411mg	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 9:24:25 AN
4	10.85	0.02117mg	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 9:29:03 AN

Mean Area Mean Conc. 11.23

0.02341mg/L

Signal[mV] 10



Sample

Sample Name:

lcs 2ppm

Sample ID: Origin:

Status

toc-3 4 reps method.met Completed

Chk. Result

Туре	Anal.	Dil.	Result	
Unknown	NPOC	1.000		NPOC:2.025mg/L

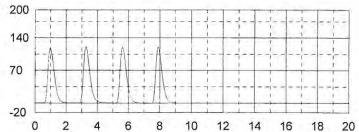
1. Det

Anal.: NPOC

Time[min]

No.	Area	Conc.	lnj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	349.6	2.012mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 9:40:15 AN
2	353.7	2.036mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 9:44:42 AN
3	352.0	2.026mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 9:49:13 AN
4	352.4	2.028mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	7/5/2016 9:53:39 AN

351.9 2.025mg/L Signal[mV] 200



Time[min]

Sample

Sample Name:

20423-01 2x

Sample ID: Origin:

toc-3 4 reps method.met

Status

Completed

Chk. Result

Type	Anal.	Dil,	Result	
Unknown	NPOC	1.000		NPOC:2.332mg/L

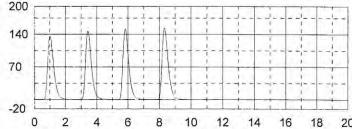
1. Det

Anal.: NPOC

No.	Area	Conc.	lnj. Vol.	Aut. E	c. Cal. Curve	Date / Time
1	383.7	2.212mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 10:17:47 A
2	394.7	2.277mg	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 10:22:17 A
3	411.1	2.373mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 10:26:53 A
4	426.6	2.464mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 10:31:26 A

4.U4 ~A

Mean Area Mean Conc. 404.0 2.332mg/L Signal[mV] 200



Time[min]

Sample

Sample Name:

20423-02 2x

Sample ID: Origin:

toc-3 4 reps method.met Completed

Status

Chk. Result

Туре	Anal.	Dil.	Result	
Unknown	NPOC	1.000	NPO	OC:1.945mg/L

1. Det

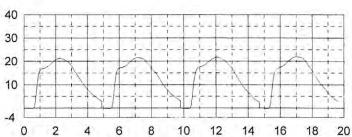
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex.	Cal. Curve	Date / Time
1	325.4	1.870mg/l	2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 10:45:15 A
2	338.0	1.944mg/l			05092016 toc-3.2016 05 09 09	
3	343.5	1.976mg/l			05092016 toc-3.2016_05_09_09	7/5/2016 11:00:37 A
4	346.0	1.991mg/l			05092016 toc-3.2016 05 09 09	7/5/2016 11:07:59 A

Mean Area Mean Conc. 338.2

1.945mg/L

Signal[mV] 40



Time[min]

Sample

Sample Name:

20423-03 2x

Sample ID: Origin:

toc-3 4 reps method.met Completed

Status

Chk. Result

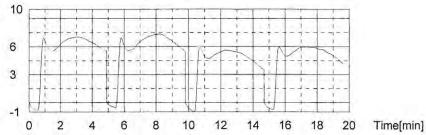
Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.5299mg

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex.	Cal. Curve	Date / Time
1	99.40	0.5415mg	/L2500uL	. 1	05092016 toc-3.2016_05_09_09_	7/5/2016 11:21:48 A
2	102.6	0.5603mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 11:28:48 A
3	93.68	0.5079mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 11:35:49 A
4	93.99	0.5097mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 11:43:51 A

Mean Area Mean Conc. 97.42 0.5299mg/L Signal[mV] 10



Sample

Sample Name: Sample ID:

20423-04 2x

toc-3 4 reps method.met

Origin: Status

Completed

Chk. Result

Туре	Anal.	Dil.	Result	
Unknown	NPOC	1.000	NPOC:0.2507i	ng/L

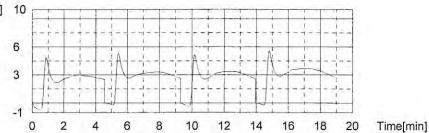
1. Det

Anal.: NPOC

No.	Area	Conc.	lnj. Vo	.Aut. Dil.	Ex.		Cal. C	urve				Da	ite	/ Tir	ne	
1	45.88	0.2270mg/l	2500ul	_ 1		05092016	toc-3.20	016_	05	09	09	7/5/20	16	11:5	7:20	A
2		0.2441mg/L				05092016	toc-3.20	016	05	09	09	7/5/20	16	12:0	04:10	P
3	50.24	0.2526mg/L	2500ul	_ 1		05092016										
4		0.2791mg/l				05092016	toc-3.20	016_	05	09	09	7/5/20	16	12:1	17:55	P

49.91 0.2507mg/L





Sample

Sample Name: Sample ID: Origin: Status

20423-05 2x

toc-3 4 reps method.met

Completed

1.000

Chk. Result

Type	Anal.	Dil
------	-------	-----

NPOC

Result

NPOC:0.1447mg/L

1. Det

Unknown

Anal.: NPOC

		1	1
	- 3	/	
	/		
/			
/			

Time[min]

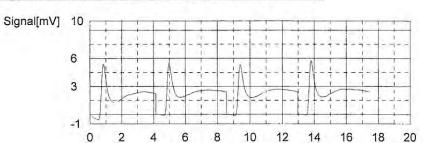
No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	29.81	0.1326mg/l	2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 12:30:58 P
		0.1442mg/l			05092016 toc-3.2016_05_09_09_	7/5/2016 12:37:29 F
3	32.57	0.1488mg/l	2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 12:44:00 F
4	33.35	0.1534mg/l	2500uL	10	05092016 toc-3.2016_05_09_09_	7/5/2016 12:50:32 P

Mean Area

31.88

Mean Conc.

0.1447mg/L



Sample

Time[min]

Sample Name: Sample ID: Origin:

20423-06 2x

Status

toc-3 4 reps method.met

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.08469mg/L

1. Det

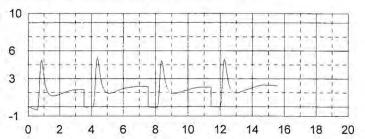
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.02	0.06918mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	7/5/2016 1:02:59 PN
		0.08945mg/l				05092016 toc-3.2016 05 09 09	7/5/2016 1:09:05 PN
3	21.28	0.08246mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 1:15:04 PN
		0.09768mg/L			= = -	05092016 toc-3.2016_05_09_09	7/5/2016 1:21:19 PN

Mean Area Mean Conc. 21.66

0.08469mg/L

Signal[mV] 10



Sample

Sample Name:

20423-07 2x

Completed

Sample ID:

Origin:

toc-3 4 reps method.met

Status

Chk. Result

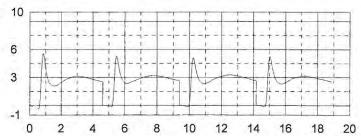
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2110mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex.	Cal. Curve	Date / Time
1	42.89	0.2094mg/	L2500uL	. 1	05092016 toc-3.2016_05_09_09	7/5/2016 1:34:51 PN
2	43.66	0.2140mg/	L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 1:41:43 PN
3	43.97	0.2158mg/	L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 1:48:36 PN
4	42.13	0.2050mg/	L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 1:55:22 PN

43.16 0.2110mg/L Signal[mV] 10



Time[min]

Sample

Sample Name:

20423-08 2x

Sample ID:

toc-3 4 reps method.met Completed

Origin: Status

Chk. Result

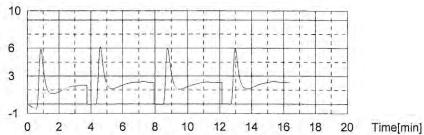
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1127mg/

1. Det

Anal.: NPOC

No.	Area	Conc.	lnj. Vol.	Aut. Ex	c. Cal. Curve	Date / Time
1	23.32	0.09445mg/L	2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 2:08:02 PN
2		0.1212mg/L			05092016 toc-3.2016_05_09_09_	
3	26.99	0.1160mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 2:20:37 PN
4	27.55	0.1193mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 2:26:55 PN

Mean Area Mean Conc. 26.43 0.1127mg/L Signal[mV] 10



Sample

Sample Name: Sample ID: Origin: Status

ccv 2ppm

toc-3 4 reps method.met Completed

Chk. Result

Type	Anal.	Dil.	Result	
Unknown	NPOC	1.000		NPOC:1.959mg/L



1. Det

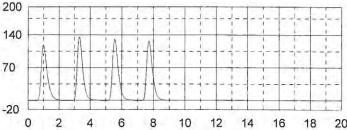
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	336.0	1.932mg	/L2500uL	1	05092016 toc-3.2016 05 09 09	7/5/2016 3:04:11 PN
2	343.9	1.978mg	/L2500uL	-1-	05092016 toc-3.2016_05_09_09_	7/5/2016 3:08:32 PN
3	340.9	1.961mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 3:12:47 PN
4	341.9	1.966mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 3:17:14 PN

Mean Area Mean Conc. 340.7

1.959mg/L





Time[min]

Sample

Sample Name: Sample ID: Origin:

ccb

toc-3 4 reps method.met Completed

Status

Chk. Result

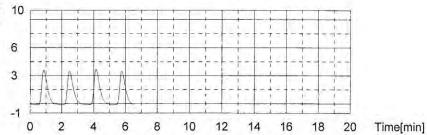
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.01121mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	9.355	0.01239mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 3:27:48 PN
2	9.093	0.01085mg	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 3:32:22 PN
3		0.01265mg			05092016 toc-3.2016_05_09_09_	7/5/2016 3:36:53 PN
4	8.771	0.00896mg	/L2500uL	_1	05092016 toc-3.2016_05_09_09_	7/5/2016 3:41:22 PN

Mean Area Mean Conc. 9.155 0.01121mg/L Signal[mV] 10



Sample

Sample Name:

20423-03 1x

Sample ID: Origin: Status

toc-3 4 reps method.met

Completed

Chk. Result

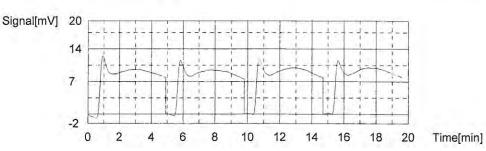
Туре	Anal.	Dil,	Result	
Unknown	NPOC	1.000		NPOC:0.7610mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	142.8	0.7965mg/	L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 3:55:13 PN
		0.7548mg/			05092016 toc-3.2016_05_09_09_	7/5/2016 4:03:12 PN
3	134.7	0.7489mg/	/L2500uL	1	05092016 toc-3.2016_05_09_09	
		0.7436mg/		1	05092016 toc-3.2016_05_09_09	7/5/2016 4:19:18 PN

136.8 0.7610mg/L



Sample

Sample Name: Sample ID: Origin: Status

20423-04 1x

toc-3 4 reps method.met

Completed

Chk. Result

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4068m

Ino Fu

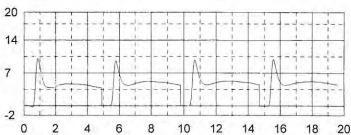
1. Det

Anal.: NPOC

No.	Area	Conc.	lnj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.11	0.3988mg/	L2500uL	-1		05092016 toc-3.2016_05_09_09	7/5/2016 4:33:08 PN
		0.4040mg/				05092016 toc-3.2016_05_09_09	7/5/2016 4:40:07 PN
3	77.04	0.4101mg/	L2500uL	1	- []	05092016 toc-3.2016_05_09_09_	7/5/2016 4:47:08 PN
4	77.76	0.4143mg/	L2500uL	1	. 2	05092016 toc-3.2016_05_09_09	7/5/2016 4:54:08 PN

Mean Area Mean Conc.

76.48 0.4068mg/L Signal[mV] 20



Time[min]

Sample

Sample Name: Sample ID: Origin:

20423-05 1x

toc-3 4 reps method.met

Status

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2650mg/L

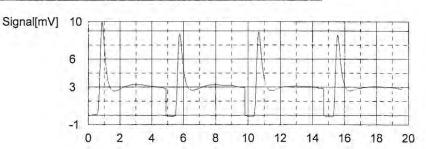
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.		Cal. Curve			Date	/ Time
1	52.94	0.2685mg/l	L2500uL	1	05092016	toc-3.2016_	05_09	09	7/5/2016	5:07:56 P
2	52.56	0.2663mg/l	L2500uL	1	05092016	toc-3.2016	05_09	09	7/5/2016	5:14:57 P
3	52.32	0.2649mg/l	L2500uL	_1	05092016	toc-3.2016_	05_09	09	7/5/2016	5:21:57 P
4	51.58	0.2605mg/l	L2500uL	1	05092016	toc-3.2016	05 09	09	7/5/2016	5:28:57 P

Mean Area Mean Conc. 52.35

0.2650mg/L



Sample

Sample Name:

20423-06 1x

Sample ID: Origin:

toc-3 4 reps method.met

Status

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2225mg/L

1. Det

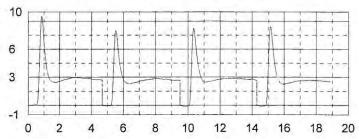
Anal.: NPOC

0.22

Time[min]

No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	46.43	0.2302mg/	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 5:42:32 PN
		0.2140mg/			05092016 toc-3.2016_05_09_09	7/5/2016 5:49:28 PN
3	47.28	0.2352mg/	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 5:56:21 PN
4	43.06	0.2104mg/	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 6:03:02 PN

45.11 0.2225mg/L Signal[mV] 10



Time[min]

Sample

Sample Name:

20423-07 1x

toc-3 4 reps method.met

Sample ID: Origin: Status

Completed

Chk. Result

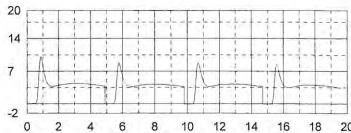
Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3352mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	66.59	0.3487mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 6:16:52 PN
2		0.3311mg			05092016 toc-3.2016_05_09_09	7/5/2016 6:23:52 PN
3	63.99	0.3334mg	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 6:30:52 PN
4	62.96	0.3274mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 6:37:52 PN

Mean Area Mean Conc. 64.28 0.3352mg/L Signal[mV] 20



Time[min]

Sample

Sample Name:

20423-08 1x

Sample ID:

toc-3 4 reps method.met

Origin: Status

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2403mg/L

0,24

1. Det

Anal.: NPOC

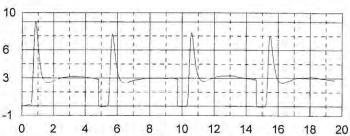
No.	Area	Conc.	lnj. Vol.	Aut. Dil.		Cal. Curve	Date / Time
1	48.67	0.2434mg/L	2500uL	1		05092016 toc-3.2016 05 09 09	7/5/2016 6:51:37 PN
2	44.81	0.2207mg/l	2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 6:58:37 PN
3	50.98	0.2570mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 7:05:37 PN
4	48.08	0.2399mg/L	2500uL	- 1	1	05092016 toc-3.2016 05 09 09	7/5/2016 7:12:37 PN

Mean Area

48.14

Mean Conc. 0.2403mg/L

Signal[mV] 10



Time[min]

Sample

Sample Name:

20423-06 dup

Sample ID: Origin:

toc-3 4 reps method.met

Status

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2537mg/l

0.72

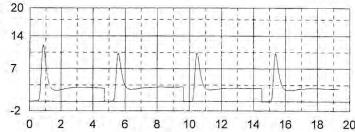
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	51.94	0.2626mg/L	2500uL	1		05092016 toc-3.2016 05 09 09	7/5/2016 7:51:22 PN
2	49.03	0.2455mg/L	2500uL	1	a.	05092016 toc-3.2016_05_09_09	7/5/2016 7:58:22 PN
3	50.91	0.2566mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 8:05:22 PN
4	49.83	0.2502mg/L	2500uL	. 1		05092016 toc-3.2016_05_09_09	7/5/2016 8:12:17 PN

Mean Area Mean Conc.

50.43 0.2537mg/L Signal[mV] 20



Time[min]

Sample

Sample Name: Sample ID: Origin: Status

20423-06 ms

toc-3 4 reps method.met Completed

Chk. Result

Туре	Anal.	Dil.	Result	
Unknown	NPOC	1.000		NPOC:0.5474mg/L

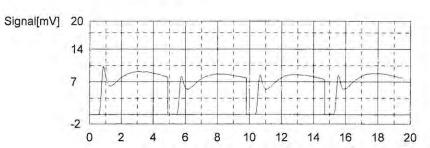
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex	Cal. Curve	Date / Time
1	109.0	0.5979mg/L	2500uL	. 1	05092016 toc-3.2016 05 09 09	7/5/2016 8:26:06 PN
2	96.31	0.5233mg/l	2500uL	. 1	05092016 toc-3.2016_05_09_09_	
3	97.72	0.5316mg/l	2500uL	1	05092016 toc-3.2016 05 09 09	
4	98.56	0.5366mg/L	2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 8:49:17 PN



100.4 0.5474mg/L



Time[min]

Sample

Sample Name:

ccv 2ppm

Sample ID: Origin: Status Chk. Result

toc-3 4 reps method.met Completed

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.048mg/L

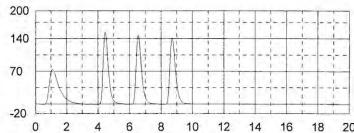
Time[min]

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex.	Cal. Curve	Date / Time
1	343.5	1.976mg/	L2500uL		05092016 toc-3.2016_05_09_09_	7/5/2016 9:01:43 PN
2	360.8	2.078mg/			05092016 toc-3.2016_05_09_09	
3	359.6	2.070mg/	L2500uL	1	05092016 toc-3.2016 05 09 09	7/5/2016 9:10:15 PN
4	359.3	2.069mg/	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 9:14:36 PN

Mean Area Mean Conc. 355.8 2.048mg/L Signal[mV] 200



Sample

ccb

Sample Name: Sample ID: Origin: Status

toc-3 4 reps method.met Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.01936mg/L



1. Det

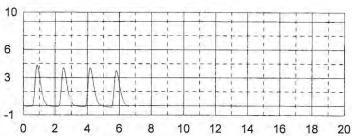
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. E	Ξx.	Cal. Curve	Date / Time
		0.02329mg/L				05092016 toc-3.2016_05_09_09	7/5/2016 9:25:12 PN
2	10.49	0.01906mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 9:29:48 PN
3	10.51	0.01917mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 9:34:22 PN
4	9.957	0.01593mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 9:38:58 PN

Mean Area Mean Conc. 10.54

0.01936mg/L

Signal[mV] 10



Time[min]

Sample

Sample Name: Sample ID: Origin:

20423-6 ms conf

toc-3 4 reps method.met

Status

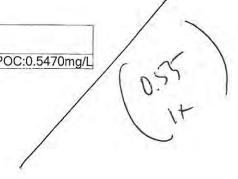
Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.5470mg/L

1. Det

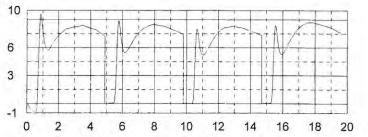
Anal.: NPOC



Time[min]

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	112.0	0.6155mg/	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/5/2016 10:12:12 P
2	97.95	0.5330mg/	L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 10:20:14 P
3	93.59	0.5074mg/	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 10:28:18 P
4	97.81	0.5322mg/	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 10:36:23 P

Mean Area Mean Conc. 100.3 0.5470mg/L Signal[mV] 10



Sample

Sample Name:

20423-6 ms 2x

Sample ID:

toc-3 4 reps method.met Completed

Origin: Status

Chk. Result

Туре	Anal.	Dil.	Result	
Unknown	NPOC	1.000		NPOC:1.055mg/L

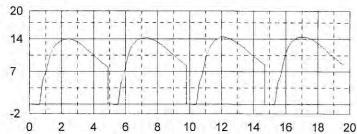
211

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex Dil.	. Cal. Curve	Date / Time
1	184.5	1.042mg/l	2500uL	1	05092016 toc-3.2016_05_09_09	7/5/2016 10:50:23 P
2	188.7	1.066mg/L	2500uL	-1	05092016 toc-3.2016_05_09_09	
3	185.3	1.046mg/L	2500uL	1	05092016 toc-3.2016 05 09 09	
4	188.9	1.067mg/L	2500uL	1	05092016 toc-3.2016 05 09 09	

Mean Area Mean Conc. 186.8 1.055mg/L Signal[mV] 20



Time[min]

Sample

Sample Name:

ccv 2ppm

Sample ID: Origin:

toc-3 4 reps method.met

Status

Completed

Chk. Result

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.061m



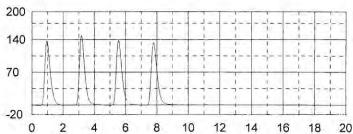
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	353.2	2.033mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 11:25:50 P
2	361.0	2.079mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 11:30:18 P
3	358.0	2.061mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	7/5/2016 11:34:38 P
4	359.6	2.070mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	7/5/2016 11:39:11 P

Mean Area Mean Conc.

358.0 2.061mg/L Signal[mV] 200



Time[min]

Sample

Sample Name: Sample ID: Origin:

ccb

Status

toc-3 4 reps method.met Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1,000	NPOC:0.03317mg/L

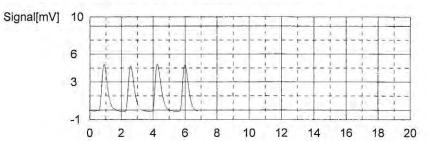


1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.81	0.03269mg/l	L2500uL	1		05092016 toc-3.2016_05_09_09	7/5/2016 11:49:50 P
		0.03151mg/l				05092016 toc-3.2016_05_09_09	7/5/2016 11:54:26 P
3	13.25	0.03528mg/l	2500uL	1		05092016 toc-3,2016_05_09_09	7/5/2016 11:59:02 P
4	12.90	0.03322mg/l	2500uL	1		05092016 toc-3.2016 05 09 09	7/6/2016 12:03:37 A

Mean Area Mean Conc. 12.89 0.03317mg/L



Time[min]

22/22

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jul 10 2016, 11:20 am

Work Group: WG910195 for Department: 7 Wet Chemistry

Created: 05-JUL-16 Due: Operator: dw

1620423-01					
1620423-02	Sample	Client ID	C Product	Matrix S	Stat UA HOLD DUE PR Location
1620423-02					
1620423-03	L1620423-01	OV-02_062916_SW_10	S DOC-9060	WATER I	DONE U 0727 0711 S0 Vial-D
1620423-03	L1620423-02	WO161B-C 062916 SW	1 S DOC-9060	WATER I	DONE U 0727 0711 S0 Vial-D
1620423-04 WQ3-L_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-05 ES-15_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-06 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-07 WQ-FPL_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-08 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-08 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-08 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-08 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-08 WATER DONE U 0727 0711 S0 VIA					
1620423-05 ES-15_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-06 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-07 WQ-FPT_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-08 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-08 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-08 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-08 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1727 0711 S0 VIAL 0727 0711 S0 VIAL 0727 0711 S0 VIAL 0727 071					
1620423-06 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-07 WQ-FPT_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-08 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 1620423-08 WQ-ECH_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 0727 0					
1620423-07 WQ-FPT_062916_SW_10 S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 0727 0711 S					
1620423-08 WQ-ECH_062916_SW_10_ S DOC-9060 WATER DONE U 0727 0711 S0 Vial-D 3910195-1 Laboratory Method Bl S DOC-9060 WATER DONE U 3910195-2 Laboratory Control S S DOC-9060 WATER DONE U 3910195-3 Duplicate Sample S DOC-9060 WATER DONE U 3910195-4 Matrix Spike S DOC-9060 WATER DONE U 3910195-3 L1620423-06					
3910195-1 Laboratory Method Bl S DOC-9060 WATER DONE U 3910195-2 Laboratory Control S S DOC-9060 WATER DONE U 3910195-3 Duplicate Sample S DOC-9060 WATER DONE U 3910195-4 Matrix Spike S DOC-9060 WATER DONE U 5910195-3 L1620423-06					
3910195-2 Laboratory Control S S DOC-9060 WATER DONE U 3910195-3 Duplicate Sample S DOC-9060 WATER DONE U 3910195-4 Matrix Spike S DOC-9060 WATER DONE U 5000000000000000000000000000000000000					
3910195-3 Duplicate Sample S DOC-9060 WATER DONE U MATER DONE U MATER DONE U DOME U DO					
3910195-4 Matrix Spike S DOC-9060 WATER DONE U comments: 3910195-3 L1620423-06					
omments: G910195-3 L1620423-06					
G910195-3 L1620423-06	WG910193 1	raciin opine	B 200 3000	WIII	SOME 0
	Comments:				
3910195-4 L1620423-06	WG910195-3	L1620423-06			
	WG910195-4	L1620423-06			

Page 1

Alpha Report





ANALYTICAL REPORT

Lab Number: L1620423

Client: AMEC Foster Wheeler E & I, Inc.

511 Congress Street

P.O. Box 7050

Portland, ME 04112-7050

ATTN: Rod Pendleton Phone: (207) 828-3692

Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052

Report Date: 07/07/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052

Lab Number: L1620423 **Report Date:** 07/07/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1620423-01	OV-02_062916_SW_10	WATER	PENOBSCOT RIVER	06/29/16 15:00	07/01/16
L1620423-02	WQ161B-C_062916_SW_10	WATER	PENOBSCOT RIVER	06/29/16 10:40	07/01/16
L1620423-03	WQ2-C_063016_SW_10	WATER	PENOBSCOT RIVER	06/30/16 09:00	07/01/16
L1620423-04	WQ3-L_062916_SW_10	WATER	PENOBSCOT RIVER	06/29/16 09:35	07/01/16
L1620423-05	ES-15_062916_SW_10	WATER	PENOBSCOT RIVER	06/29/16 09:00	07/01/16
L1620423-06	WQ-ECH_062916_SW_10	WATER	PENOBSCOT RIVER	06/29/16 07:45	07/01/16
L1620423-07	WQ-FPT_062916_SW_10	WATER	PENOBSCOT RIVER	06/29/16 08:25	07/01/16
L1620423-08	WQ- ECH_062916_SW_10_DUP	WATER	PENOBSCOT RIVER	06/29/16 07:45	07/01/16



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423

Project Number: 3616166052 **Report Date:** 07/07/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423
Project Number: 3616166052 Report Date: 07/07/16

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Dissolved Organic Carbon

The samples were field filtered; a filter blank was not received.

The WG910195-4 MS recovery (26%), performed on L1620423-06, is outside the acceptance criteria;

however, the associated LCS recovery is within criteria. No further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Whole M. Morris

Authorized Signature:

Title: Technical Director/Representative

Date: 07/07/16



INORGANICS & MISCELLANEOUS



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423

SAMPLE RESULTS

 Lab ID:
 L1620423-01
 Date Collected:
 06/29/16 15:00

 Client ID:
 OV-02_062916_SW_10
 Date Received:
 07/01/16

Client ID: OV-02_062916_SW_10 Date Received: 07/01/16
Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lat)								
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	07/05/16 14:20	121,2540D	SG
Dissolved Organic Carbon	4.7		mg/l	2.0	0.08	2	07/05/16 08:26	07/05/16 08:26	1,9060A	DW



06/29/16 10:40

Date Collected:

Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423

SAMPLE RESULTS

Lab ID: L1620423-02

Client ID: WQ161B-C_062916_SW_10 Date Received: 07/01/16

Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lal)								
Solids, Total Suspended	50.		mg/l	5.0	NA	1	-	07/05/16 14:20	121,2540D	SG
Dissolved Organic Carbon	3.9		mg/l	2.0	0.08	2	07/05/16 08:26	07/05/16 08:26	1,9060A	DW



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423

SAMPLE RESULTS

 Lab ID:
 L1620423-03
 Date Collected:
 06/30/16 09:00

 Client ID:
 WQ2-C_063016_SW_10
 Date Received:
 07/01/16

Client ID: WQ2-C_063016_SW_10 Date Received: 07/01/16
Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Resul	lt Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough L	ab								
Solids, Total Suspended	6.8		mg/l	5.0	NA	1	-	07/05/16 14:20	121,2540D	SG
Dissolved Organic Carbon	0.76	J	mg/l	1.0	0.04	1	07/05/16 08:26	07/05/16 08:26	1,9060A	DW



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423

SAMPLE RESULTS

Lab ID: L1620423-04 Date Collected: 06/29/16 09:35 Client ID: WQ3-L_062916_SW_10 Date Received: 07/01/16

Client ID: WQ3-L_062916_SW_10 Date Received: 07/01/16
Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough L	ab								
Solids, Total Suspended	24.		mg/l	5.0	NA	1	-	07/05/16 14:20	121,2540D	SG
Dissolved Organic Carbon	0.41	J	mg/l	1.0	0.04	1	07/05/16 08:26	07/05/16 08:26	1,9060A	DW



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423

SAMPLE RESULTS

Lab ID: L1620423-05 Date Collected: 06/29/16 09:00

Client ID: ES-15_062916_SW_10 Date Received: 07/01/16
Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough L	ab								
Solids, Total Suspended	11.		mg/l	5.0	NA	1	-	07/05/16 14:20	121,2540D	SG
Dissolved Organic Carbon	0.27	J	mg/l	1.0	0.04	1	07/05/16 08:26	07/05/16 08:26	1,9060A	DW



06/29/16 07:45

Date Collected:

Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423

Project Number: 3616166052 **Report Date:** 07/07/16

SAMPLE RESULTS

Lab ID: L1620423-06

Client ID: WQ-ECH_062916_SW_10 Date Received: 07/01/16

Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Result	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough La	ab								
Solids, Total Suspended	11.		mg/l	5.0	NA	1	-	07/05/16 14:20	121,2540D	SG
Dissolved Organic Carbon	0.22	J	mg/l	1.0	0.04	1	07/05/16 08:26	07/05/16 08:26	1,9060A	DW



06/29/16 08:25

Date Collected:

Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423

Project Number: 3616166052 **Report Date:** 07/07/16

SAMPLE RESULTS

Lab ID: L1620423-07

Client ID: WQ-FPT_062916_SW_10 Date Received: 07/01/16

Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough La	ab								
Solids, Total Suspended	6.5		mg/l	5.0	NA	1	-	07/05/16 14:20	121,2540D	SG
Dissolved Organic Carbon	0.34	J	mg/l	1.0	0.04	1	07/05/16 08:26	07/05/16 08:26	1,9060A	DW



06/29/16 07:45

Date Collected:

Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423

Project Number: 3616166052 **Report Date:** 07/07/16

SAMPLE RESULTS

Lab ID: L1620423-08

Client ID: WQ-ECH_062916_SW_10_DUP Date Received: 07/01/16

Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough L	ab								
Solids, Total Suspended	10.		mg/l	5.0	NA	1	-	07/05/16 14:20	121,2540D	SG
Dissolved Organic Carbon	0.24	J	mg/l	1.0	0.04	1	07/05/16 08:26	07/05/16 08:26	1,9060A	DW



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423

Project Number: 3616166052 **Report Date:** 07/07/16

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lab for sa	ample(s): 01	-08 Ba	tch: WC	G910187-1				
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	07/05/16 14:20	121,2540D	SG
General Chemistry - We	estborough Lab for sa	ample(s): 01	-08 Ba	tch: WC	G910195-1				
Dissolved Organic Carbon	ND	mg/l	1.0	0.04	1	07/05/16 08:26	07/05/16 08:26	1,9060A	DW



Lab Control Sample Analysis Batch Quality Control

Lab Number: L1620423

Project Number: 3616166052 Report Date:

07/07/16

Parameter	LCS %Recovery Qual	LCSD %Recovery Qu	%Recovery ual Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-08	Batch: WG910195-2				
Dissolved Organic Carbon	102	-	90-110	-		



Project Name:

PENOBSCOT RIVER ESTUARY

Matrix Spike Analysis Batch Quality Control

Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052

Lab Number:

L1620423

Report Date:

07/07/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery Qu	Recovery al Limits	RPD Qual	RPD Limits
General Chemistry - Westborouge ECH_062916_SW_10	gh Lab Asso	ciated samp	le(s): 01-08	QC Batch II	D: WG910	0195-4	QC Sample: L1620	0423-06 Clie	nt ID: WQ-	
Dissolved Organic Carbon	0.22J	8	2.1	26	Q	-	-	79-120	-	20



Lab Duplicate Analysis Batch Quality Control

Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052

Lab Number:

L1620423

Report Date:

07/07/16

Parameter	Native Sam	ple Di	uplicate Sampl	e Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Ass ECH_062916_SW_10	sociated sample(s): 01-08	QC Batch ID:	WG910187-2	QC Sample:	L1620423-06	Client ID:	WQ-
Solids, Total Suspended	11.		12	mg/l	9		29
General Chemistry - Westborough Lab Ass ECH_062916_SW_10	sociated sample(s): 01-08	QC Batch ID:	WG910195-3	QC Sample:	L1620423-06	Client ID:	WQ-
Dissolved Organic Carbon	0.22J		0.25J	mg/l	NC		20



Lab Number: L1620423

Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052 **Report Date:** 07/07/16

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information Custody Seal

Cooler

A Absent

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1620423-01A	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-01B	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-01C	Plastic 950ml unpreserved	Α	7	4.1	Υ	Absent	TSS-2540(7)
L1620423-02A	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-02B	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-02C	Plastic 950ml unpreserved	Α	7	4.1	Υ	Absent	TSS-2540(7)
L1620423-03A	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-03B	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-03C	Plastic 950ml unpreserved	Α	7	4.1	Υ	Absent	TSS-2540(7)
L1620423-04A	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-04B	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-04C	Plastic 950ml unpreserved	Α	7	4.1	Υ	Absent	TSS-2540(7)
L1620423-05A	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-05B	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-05C	Plastic 950ml unpreserved	Α	7	4.1	Υ	Absent	TSS-2540(7)
L1620423-06A	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-06A1	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-06A2	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-06B	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-06B1	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-06B2	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-06C	Plastic 950ml unpreserved	Α	7	4.1	Υ	Absent	TSS-2540(7)
L1620423-06C1	Plastic 950ml unpreserved	Α	7	4.1	Υ	Absent	TSS-2540(7)
L1620423-06C2	Plastic 950ml unpreserved	Α	7	4.1	Υ	Absent	TSS-2540(7)
L1620423-07A	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-07B	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-07C	Plastic 950ml unpreserved	Α	7	4.1	Υ	Absent	TSS-2540(7)
L1620423-08A	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)
L1620423-08B	Vial H2SO4 preserved	Α	N/A	4.1	Υ	Absent	DOC-9060(28)



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423

Container Information

Container ID Container Type

Cooler pH deg C Pres Seal Analysis(*)

L1620423-08C Plastic 950ml unpreserved A 7 4.1 Y Absent TSS-2540(7)



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423

Project Number: 3616166052 Report Date: 07/07/16

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated

values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for

which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less

than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound

list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a "Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers



Project Name:PENOBSCOT RIVER ESTUARYLab Number:L1620423Project Number:3616166052Report Date:07/07/16

Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
 of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- RE Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1620423
Project Number: 3616166052 Report Date: 07/07/16

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873

Revision 6

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Published Date: 2/3/2016 10:23:10 AM

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene

EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene

EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.

EPA 1010A: NPW: Ignitability

EPA 6010C: NPW: Strontium; SCM: Strontium

EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate

(soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-

Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation EPA 9038: NPW: Sulfate

EPA 9050A: NPW: Specific Conductance EPA 9056: NPW: Chloride, Nitrate, Sulfate

EPA 9065: NPW: Phenols EPA 9251: NPW: Chloride SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane

SM 2540D: TSS

SM2540G: SCM: Percent Solids EPA 1631E: SCM: Mercury EPA 7474: SCM: Mercury

EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 8270-SIM: NPW and SCM: Alkylated PAHs.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.

Biological Tissue Matrix: 8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A: Lead; 8270D: bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; EPA 200.7: Ba,Be,Ca,Cd,Cr,Cu,Na; EPA 245.1: Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F,

EPA 353.2: Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

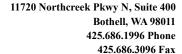
EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Pre-Qualtrax Document ID: 08-113 Document Type: Form

Page 24 of 24 Page 78 of 78





16 December 2016

Rod Pendleton AMEC Foster Wheeler 511 Congress Street Portland, ME 04101

RE: Penobscot Seawater Total And Diss Hg and MMHg

Enclosed are the analytical results for samples received by Eurofins Frontier Global Sciences. All quality control measurements are within established control limits and there were no analytical difficulties encountered with the exception of those listed in the case narrative section of this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amy Goodall

Project Manager

Amy Sodall.



11720 Northcreek Pkwy N, Suite 400 Bothell, WA 98011 425.686.1996 Phone 425.686.3096 Fax

AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OV-02_071816_SW_10	1607586-01	Water	18-Jul-16 07:45	21-Jul-16 09:25
OV-02_071816_SW_10 Dissolved	1607586-02	Water	18-Jul-16 07:45	21-Jul-16 09:25
WQ1b-c_071816_SW_10	1607586-03	Water	18-Jul-16 16:30	21-Jul-16 09:25
WQ1b-c_071816_SW_10 Dissolved	1607586-04	Water	18-Jul-16 16:30	21-Jul-16 09:25
WQ2-c_071816_SW_10	1607586-05	Water	18-Jul-16 15:15	21-Jul-16 09:25
WQ2-c_071816_SW_10 Dissolved	1607586-06	Water	18-Jul-16 15:15	21-Jul-16 09:25
WQ3-L_071816_SW_10	1607586-07	Water	18-Jul-16 14:00	21-Jul-16 09:25
WQ3-L_071816_SW_10 Dissolved	1607586-08	Water	18-Jul-16 14:00	21-Jul-16 09:25
ES-15_071816_SW_10	1607586-09	Water	18-Jul-16 13:15	21-Jul-16 09:25
ES-15_071816_SW_10 Dissolved	1607586-10	Water	18-Jul-16 13:15	21-Jul-16 09:25
WQ-ECH_071816_SW_10	1607586-11	Water	18-Jul-16 12:00	21-Jul-16 09:25
WQ-ECH_071816_SW_10 Dissolved	1607586-12	Water	18-Jul-16 12:00	21-Jul-16 09:25
WQ-ECH_071816_SW_10_DUP	1607586-13	Water	18-Jul-16 12:00	21-Jul-16 09:25
WQ-ECH_071816_SW_10_DUP Dissolved	1607586-14	Water	18-Jul-16 12:00	21-Jul-16 09:25
WQ-FPT_071816_SW_10	1607586-19	Water	18-Jul-16 11:00	21-Jul-16 09:25
WQ-FPT_071816_SW_10 Dissolved	1607586-20	Water	18-Jul-16 11:00	21-Jul-16 09:25
EB_071916_SW_QC Dissolved	1607586-21	Water	18-Jul-16 12:15	21-Jul-16 09:25

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Amy Sodall.

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11720 Northcreek Pkwy N, Suite 400 Bothell, WA 98011 425.686.1996 Phone 425.686.3096 Fax

AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

REVISED REPORT (12/16/16)

Report was revised per client request. The first four digits were removed from the sample IDs for all samples.

SAMPLE RECEIPT

Samples were received at Eurofins Frontier Global Sciences (EFGS) on 7/21/2016 9:25:00 AM . The samples were received intact, on-ice within a sealed cooler at 7.8 degrees Celsius.

SAMPLE PREPARATION AND ANALYSIS

Samples were prepared and analyzed for total mercury by flow injection atomic fluorescence spectrometry (FI-AFS) in accordance with EPA 1631E.

Samples were prepared and analyzed for methyl mercury by cold vapor gas chromatography atomic fluorescence spectrometry (CV-GC-AFS) in accordance with EPA 1630 (EFGS-070).

ANALYTICAL AND QUALITY CONTROL ISSUES

Per the client request, samples 1607586-11 and 1607586-12 were used as the source QC for the MS/MSD.

There were no analytical issues with the total mercury analysis. These samples were prepped in two batches; F608240 and F608263. Both 1607586-11 and 1607586-12 were prepped in batch F608240. These were analyzed in two sequences; 6H10008 and 6H11005.

There were some analytical issues with the intial prep of the Methyl Mercury samples, and they had to be reprepped. The Methyl Mercury batches were F608139, F608200, F608251, and F608273. Due to failing high BS/BSD in F608139 and F608200, only the non-detect samples were reported. Sample 1607586-11 was used as the source QC in batch F608200. The unreportable samples were reprepped in batches F608251 and F608273. The source QC samples for these two batches were 1607586-08 and 1607586-12 respectfully. The methyl mercury samples were analyzed in sequences; 6H03012, 6H08006, 6H11011, and 6H12011.

Method blanks were prepared for every preparation to assess possible blank contribution from the sample preparation procedure. The method blanks were carried through the entire analytical procedure. All blanks fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

Liquid spikes, certified reference material (CRM) or a quality control samples (QCS) were prepared for every preparation as a measure of

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Amy Sodall.

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Amy Goodall, Project Manager



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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

accuracy. All liquid spikes, CRMs and/or QCS samples fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

As an additional measure of the accuracy of the methods used and to check for matrix interference, matrix spikes (MS) and matrix spike duplicates (MSD) were digested and analyzed. All of the matrix spike recoveries fell within the established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

A reasonable measure of the precision of the analytical methods is the relative percent difference (RPD) between a matrix spike recovery and a matrix spike duplicate recovery and between laboratory control sample recovery and laboratory control sample duplicate recoveries. All of the relative percent differences established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

Eurofins Frontier Global Sciences, Inc.

Amy Sodall.

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Amy Goodall, Project Manager



			Sample	Receip	t Checklist	EFGS	Work Order:_	16075	186
Client: AMEC Project: # of Coolers Received: Coolant: None/A Notify Project Manage	 mbient ☑L	Samples Arrived	el Ice Dry Id	Received By: pping Service ce Coolant F	Received: 7/21/16 9:20 LM Courier Hand Required V/N Temperate Coolant and at a temperate	Lab Other	ed: Y⁄⁄ for C	Cooler(s):	
Cooler Information:		Y/N/NA	Comme	ents	TID: 43/50 CF: +U,	2 °C Day	te/time: アノル	liene	1 10-
The coolers do not appear to	be tampered witl	h: C			Cooler 1: 3.5°C w/ci	B Por	Cooler 4:		y: LM
Custody Seals are present an	d intact:	1				:7,80		°C w/ CF:	°C
Custody seals signed:		Y		¥ = 1	Cooler 3: °C w/ CF	.,,	Cooler 6:	°C w/ CF:	°C
Chain of Custody:	Y/N/NA	Commen	rts	Sample Condition	on/Integrity:	Y/N/NA			
Sample ID/Description:	Y				ers intact/present:	1/N/NA		Comments	
Date and time of collection:	Y			Sample labels ar	re present and legible:	TW			
ampled by:	N				ntainer/bag matches COC:	W			
reservation type:				Correct sample of					
lequested analyses:					d within holding times:	IN			
equired signatures:					sufficient for requested analyses:	Yn		-	
nternal COC required:					tive used for requested analyses:	10/			
Anomalies/Non-conforma	nces (attach add	ditional pages if ne				γ			
		-		1.5 - 10 10		,,	e er i igir e	***	

Chain Of Custody/Analysis Request Form

USDC - Penobscot River

Lab: Eurofins

AMEC, Suite 200, 511 Congress Street, Portland, ME

Tech Lead - Louise Venne Work# 770-421-3461

Proj Chemist - Denise King 508-789-1738

AMEC Job Number = 3616166052

Sample Date	Sample Time	Field Sample ID	QC Code	Qty Total	Qty Each		Bottle Size and Material	Preservative	Media	Method	Fraction
7/18/2016	7:45	OV-02_071816_SW_10		4	(4						
			FS		1 250	mL	BS Glass	H2SO4/4 deg C	SW	Dissolved MeHg (1630)	D
			FS		1 250	mL	PETG	4 deg C	sw	Dissolved Hg (1631e)	D
			FS		1 250	mL	PETG	4 deg C	sw	Total Hg (1631e)	Т
			FS		1 250	mL	BS Glass	H2SO4/4 deg C	sw	Total MeHg (1630)	T
7/18/2016	16:30	WQ1b-c_071816_SW_10		4							
			FS		1 250	mL	PETG	4 deg C	sw	Total Hg (1631e)	Ť
			FS		1 250	mL	BS Glass	H2SO4/4 deg C	sw	Dissolved MeHg (1630)	D
			FS		1 250	mL	PETG	4 deg C	sw	Dissolved Hg (1631e)	D
			FS		1 250	mL	BS Glass I	H2SO4/4 deg C	SW	Total MeHg (1630)	Т
7/18/2016	15:15	WQ2-c_071816_SW_10		4							
			FS		1 250	mL	BS Glass	H2SO4/4 deg C	SW	Dissolved MeHg (1630)	D
			FS		1 250	mL	PETG	4 deg C	sw	Dissolved Hg (1631e)	D
			FS		1 250	mL	BS Glass I	H2SO4/4 deg C	sw	Total MeHg (1630)	T
			FS		1 250	mL	PETG	4 deg C	sw	Total Hg (1631e)	T
	<i>Date</i> 7/18/2016 7/18/2016	Date Time 7/18/2016 7:45 7/18/2016 16:30	Date Time ID 7/18/2016 7:45 OV-02_071816_SW_10 7/18/2016 16:30 WQ1b-c_071816_SW_10	Date Time ID Code 7/18/2016 7:45 OV-02_071816_SW_10 FS FS FS FS FS FS FS 7/18/2016 16:30 WQ1b-c_071816_SW_10 FS FS FS FS 7/18/2016 15:15 WQ2-c_071816_SW_10 FS FS FS FS FS FS FS FS FS FS FS FS FS	Date Time ID Code Total 7/18/2016 7:45 OV-02_071816_SW_10 4 FS FS FS FS FS FS 7/18/2016 16:30 WQ1b-c_071816_SW_10 4 FS FS FS FS FS FS 7/18/2016 15:15 WQ2-c_071816_SW_10 4 FS FS FS FS FS FS	Date Time ID Code Total Each 7/18/2016 7:45 OV-02_071816_SW_10 4 FS 1 250 FS 1 250 FS 1 250 FS 1 250 FS 1 250 7/18/2016 16:30 WQ1b-c_071816_SW_10 4 FS 1 250 FS 1 250 FS 1 250 FS 1 250 7/18/2016 15:15 WQ2-c_071816_SW_10 4 FS 1 250 7/18/2016 15:15 WQ2-c_071816_SW_10 4 FS 1 250 FS 1 250 FS 1 250 FS 1 250 FS 1 250 FS 1 250 FS 1 250	Date Time ID Code Total Each 7/18/2016 7:45 OV-02_071816_SW_10 4 FS 1 250 mL FS 1 250 mL FS 1 250 mL FS 1 250 mL 7/18/2016 16:30 WQ1b-c_071816_SW_10 4 FS 1 250 mL FS 1 250 mL FS 1 250 mL FS 1 250 mL 7/18/2016 15:15 WQ2-c_071816_SW_10 4 FS 1 250 mL FS 1 250 mL FS 1 250 mL FS 1 250 mL 7/18/2016 15:15 WQ2-c_071816_SW_10 4 FS 1 250 mL FS 1 250 mL FS 1 250 mL FS 1 250 mL	Date Time ID Code Total Each and Material 7/18/2016 7:45 OV-02_071816_SW_10 4 FS 1 250 mL BS Glass FS 1 250 mL PETG FS 1 250 mL BS Glass 7/18/2016 16:30 WQ1b-c_071816_SW_10 4 FS 1 250 mL PETG FS 1 250 mL BS Glass FS 1 250 mL BS Glass FS 1 250 mL BS Glass 7/18/2016 15:15 WQ2-c_071816_SW_10 4 FS 1 250 mL BS Glass H FS 1 250 mL BS Glass H	Date Time ID Code Total Each and Material Preservative 7/18/2016 7:45 OV-02_071816_SW_10 4 FS 1 250 mL BS Glass H2SO4/4 deg C FS 1 250 mL PETG 4 deg C 4 deg C FS 1 250 mL PETG 4 deg C 7/18/2016 16:30 WQ1b-c_071816_SW_10 4 FS 1 250 mL PETG 4 deg C FS 1 250 mL PETG 4 deg C FS 1 250 mL PETG 4 deg C FS 1 250 mL PETG 4 deg C FS 1 250 mL PETG 4 deg C 7/18/2016 15:15 WQ2-c_071816_SW_10 4 FS 1 250 mL BS Glass H2SO4/4 deg C FS 1 250 mL BS Glass H2SO4/4 deg C FS 1 250 mL BS Glass H2SO4/4 deg C	Date Time ID Code Total Each and Material Preservative Media 7/18/2016 7:45 OV-02_071816_SW_10 4 FS 1 250 mL BS Glass H2SO4/4 deg C SW FS 1 250 mL PETG 4 deg C SW FS 1 250 mL BS Glass H2SO4/4 deg C SW 7/18/2016 16:30 WQ1b-c_071816_SW_10 4 FS 1 250 mL PETG 4 deg C SW 7/18/2016 16:30 WQ1b-c_071816_SW_10 4 PETG 4 deg C SW FS 1 250 mL BS Glass H2SO4/4 deg C SW FS 1 250 mL BS Glass H2SO4/4 deg C SW 7/18/2016 15:15 WQ2-c_071816_SW_10 4 FS 1 250 mL BS Glass H2SO4/4 deg C SW FS 1 250 mL BS Glass H2SO4/4 deg C SW	Date Time ID Code Total Each and Material Preservative Media Method 7/18/2016 7:45 OV-02_071816_SW_10 4 4 FS 1 250 mL BS Glass H2SO4/4 deg C SW Dissolved MeHg (1630) FS 1 250 mL PETG 4 deg C SW Dissolved Hg (1631e) FS 1 250 mL PETG 4 deg C SW Total Hg (1631e) 7/18/2016 16:30 WQ1b-c_071816_SW_10 4 PETG 4 deg C SW Total Hg (1631e) FS 1 250 mL BS Glass H2SO4/4 deg C SW Dissolved MeHg (1630) FS 1 250 mL BS Glass H2SO4/4 deg C SW Dissolved Hg (1630) 7/18/2016 15:15 WQ2-c_071816_SW_10 4 SG Glass H2SO4/4 deg C SW Dissolved MeHg (1630) FS 1 250 mL BS Glass H2SO4/4 deg C SW Dissolved MeHg (1630) FS 1 250 mL BS Glass H2SO4/4 deg C SW

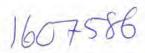
Wednesday, July 20, 2016

Page 1 of 4

1:3.8°C 2:7.8°C Las MAtet

Falta

Caled:8094 0561 9680 2:7836 2778 6871 7/21/16 9:25



Samp #	Sample Date	Sample Time	Field Sample ID	QC Code	Qty Total	Qty Each		Bottle Size and Materia	l Preservative	Media	Method	Fraction
1526	7/18/2016	14:00	WQ3-L_071816_SW_10		4							
				FS		1 250	mL	PETG	4 deg C	sw	Dissolved Hg (1631e)	D
				FS		1 250	mL	BS Glass	H2SO4/4 deg C	sw	Dissolved MeHg (1630)	D
				FS		1 250	mL	BS Glass	H2SO4/4 deg C	sw	Total MeHg (1630)	T
				FS		1 250	mL	PETG	4 deg C	SW	Total Hg (1631e)	T
1527	7/18/2016	13:15	ES-15_071816_SW_10		4							
				FS		1 250	mL	BS Glass	H2SO4/4 deg C	SW	Dissolved MeHg (1630)	D
				FS		1 250	mL	PETG	4 deg C	SW	Dissolved Hg (1631e)	D
				FS		1 250	mL	PETG	4 deg C	sw	Total Hg (1631e)	T.
				FS		1 250	mL	BS Glass	H2SO4/4 deg C	sw	Total MeHg (1630)	T
1528	7/18/2016	12:00	WQ-ECH_071816_SW_10		4							
				FS		1 250	mL	BS Glass	H2SO4/4 deg C	sw	Dissolved MeHg (1630)	D
				FS		1 250	mL	BS Glass	H2SO4/4 deg C	sw	Total MeHg (1630)	T
				FS		1 250	mL	PETG	4 deg C	sw	Total Hg (1631e)	Т
				FS		1 250	mL	PETG	4 deg C	sw	Dissolved Hg (1631e)	D
529	7/18/2016	12:00	WQ-ECH_071816_SW_10_	DUP	4							
				FD		1 250	mL	PETG	4 deg C	sw	Dissolved Hg (1631e)	D
				FD		1 250	mL	BS Glass	H2SO4/4 deg C	sw	Total MeHg (1630)	Ť
				FD		1 250	mL	BS Glass H	H2SO4/4 deg C	sw	Dissolved MeHg (1630)	D
				FD		1 250	mL	PETG	4 deg C	SW	Total Hg (1631e)	Ť



Samp #	Sample Date	Sample Time	Field Sample ID	QC Code	Qty Total	Qty Each		Bottle Size and Materia	l Preservative	Media	Method	Fraction
1530	7/18/2016	12:00	WQ-ECH_071816_SW_1	0_MS	4							
	CY	Ton	IOLUME FOR	MS		1 250	mL	PETG	4 deg C	SW	Total Hg (1631e)	Т
			SPIKE	MS		1 250	mL	BS Glass	H2SO4/4 deg C	SW	Dissolved MeHg (1630)	D
				MS		1 250	mL	PETG	4 deg C	SW	Dissolved Hg (1631e)	D
				MS		1 250	mL	BS Glass	H2SO4/4 deg C	SW	Total MeHg (1630)	T
1531	7/18/2016	12:00	WQ-ECH_071816_SW_1	O_MD	4							
	FX	TRAI	OLUME FOR	MSD		1 250	mL	BS Glass	H2SO4/4 deg C	SW	Total MeHg (1630)	Т
			SD.	MSD		1 250	mL	PETG	4 deg C	SW	Total Hg (1631e)	Т
			- 5 .	MSD		1 250	mL	BS Glass	H2SO4/4 deg C	sw	Dissolved MeHg (1630)	D
				MSD		1 250 1	mL	PETG	4 deg C	SW	Dissolved Hg (1631e)	D
532	7/18/2016	11:00	WQ-FPT_071816_SW_10		4							
				FS		1 250 r	mL	PETG	4 deg C	sw	Total Hg (1631e)	T
				FS		1 250 r	mL	BS Glass	H2SO4/4 deg C	sw	Dissolved MeHg (1630)	D
				FS		1 250 r	nL	PETG	4 deg C	SW	Dissolved Hg (1631e)	D
				FS		1 250 n	nL	BS Glass H	H2SO4/4 deg C	SW	Total MeHg (1630)	T
533	7/19/2016	12:15	EB_071916_SW_QC		2							
				EB		1 250 n	nL	PETG	4 deg C	BW	Dissolved Hg (1631e)	D
				EB		1 250 m	nL	BS Glass H	12SO4/4 deg C	BW	Dissolved MeHg (1630)	D

Samp !	Sample Date	Sample Time	Field Sample ID	QC Code	Qty Total	Qty Each	Bottle Size and Material Preservative Media Method	Fraction
QC Co	odes: FS	S = Field :	Sample, EB = Equ	ipment Ri	insate	Blank, I	S - Matrix Spike, MSD = Matrix Spike Duplicate	-
Reling	uished:	()	reis Pal	egy	ı		Date: 7 / 20 / 2016 Time: 1719	
Receiv	ed:	7	2			L	nte: 7 1 21 1 16 Time: 91/25	
	-	AIRBI	L#: 8094	0561	96	80		

- TWO COOLERS



AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

OV-02_071816_SW_10 1607586-01

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Meth	yl Hg Disti	llation fo	r Water								
Methyl Mercury (as Mercury)	0.141	0.026	0.050	ng/L	1.25	F608251	09-Aug-16	6H11011	11-Aug-16	EPA 1630/FGS-070	
Sample Preparation: EPA 1631E BrC	Oxidation	1									
Mercury	1.68	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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Amy Sodall.

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

$OV\text{-}02_071816_SW_10\ Dissolved$

1607586-02

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Meth	yl Hg Disti	llation for	Water								
Methyl Mercury (as Mercury)	0.107	0.026	0.050	ng/L	1.25	F608251	09-Aug-16	6H11011	11-Aug-16	EPA 1630/FGS-070	
Sample Preparation: EPA 1631E BrC	l Oxidatior	1									
Mercury	1.26	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

WQ1b-c_071816_SW_10 1607586-03

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Methy	l Hg Disti	llation for	r Water								
Methyl Mercury (as Mercury)	0.259	0.026	0.050	ng/L	1.25	F608251	09-Aug-16	6H11011	11-Aug-16	EPA 1630/FGS-070	
Sample Preparation: EPA 1631E BrCl	Oxidation	1									
Mercury	5.86	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

WQ1b-c_071816_SW_10 Dissolved 1607586-04

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Meth	yl Hg Disti	illation for	r Water								
Methyl Mercury (as Mercury)	0.116	0.026	0.050	ng/L	1.25	F608273	11-Aug-16	6H12011	12-Aug-16	EPA 1630/FGS-070	
Sample Preparation: EPA 1631E BrCl	Oxidation	1									
Mercury	1.16	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

WQ2-c_071816_SW_10 1607586-05

Analyte	Result	Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Methy	l Hg Distil	llation for	r Water								
Methyl Mercury (as Mercury)	0.360	0.026	0.050	ng/L	1.25	F608251	09-Aug-16	6H11011	11-Aug-16	EPA 1630/FGS-070	
Sample Preparation: EPA 1631E BrCl	Oxidation										
Mercury	16.1	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

$WQ2\text{-}c_071816_SW_10\ Dissolved$

1607586-06

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Meth	yl Hg Disti	llation fo	r Water								
Methyl Mercury (as Mercury)	0.142	0.026	0.050	ng/L	1.25	F608251	09-Aug-16	6H11011	11-Aug-16	EPA 1630/FGS-070	
Sample Preparation: EPA 1631E BrC	l Oxidation	1									
Mercury	8.71	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

WQ3-L_071816_SW_10

1607586-07

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Met	thyl Hg Disti	llation for	r Water								
Methyl Mercury (as Mercury)	0.132	0.026	0.050	ng/L	1.25	F608251	09-Aug-16	6H11011	11-Aug-16	EPA 1630/FGS-070	
Sample Preparation: EPA 1631E Br	Cl Oxidation	l									
Mercury	8.05	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

WQ3-L_071816_SW_10 Dissolved

1607586-08

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013	Methyl Hg Disti	llation fo	r Water								
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L	1.25	F608251	09-Aug-16	6H11011	11-Aug-16	EPA 1630/FGS-070	U
Sample Preparation: EPA 16311	E BrCl Oxidation	1									
Mercury	1.20	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported: Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

ES-15_071816_SW_10 1607586-09

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Methyl	Hg Disti	llation for	Water								
Methyl Mercury (as Mercury)	0.043	0.026	0.050	ng/L	1.25	F608251	09-Aug-16	6H11011	11-Aug-16	EPA 1630/FGS-070	J
Sample Preparation: EPA 1631E BrCl (Oxidation										
Mercury	1.72	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

$ES\text{-}15_071816_SW_10\ Dissolved$

1607586-10

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 M	lethyl Hg Disti	llation fo	r Water								
Methyl Mercury (as Mercury)	0.047	0.026	0.050	ng/L	1.25	F608200	04-Aug-16	6Н08006	05-Aug-16	EPA 1630/FGS-070	J
Sample Preparation: EPA 1631E E	BrCl Oxidation										
Mercury	0.63	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

WQ-ECH_071816_SW_10

1607586-11

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 M	lethyl Hg Disti	llation for	Water								
Methyl Mercury (as Mercury)	0.067	0.026	0.050	ng/L	1.25	F608251	09-Aug-16	6H11011	11-Aug-16	EPA 1630/FGS-070	
Sample Preparation: EPA 1631E F	BrCl Oxidation	I									
Mercury	2.55	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

WQ-ECH_071816_SW_10 Dissolved 1607586-12

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Methy	yl Hg Disti	llation for	r Water								
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L	1.25	F608273	11-Aug-16	6H12011	12-Aug-16	EPA 1630/FGS-070	U
Sample Preparation: EPA 1631E BrCl	Oxidation	1									
Mercury	0.58	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

WQ-ECH_071816_SW_10_DUP 1607586-13

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Meth	ıyl Hg Disti	llation fo	r Water								
Methyl Mercury (as Mercury)	0.071	0.026	0.050	ng/L	1.25	F608251	09-Aug-16	6H11011	11-Aug-16	EPA 1630/FGS-070	
Sample Preparation: EPA 1631E BrC	l Oxidation	ı									
Mercury	2.59	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

$WQ\text{-}ECH_071816_SW_10_DUP\ Dissolved$

1607586-14

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Methy	l Hg Disti	illation fo	r Water								
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L	1.25	F608251	09-Aug-16	6H11011	11-Aug-16	EPA 1630/FGS-070	U
Sample Preparation: EPA 1631E BrCl	Oxidation	n									
Mercury	0.58	0.08	0.50	ng/L	1	F608240	21-Jul-16	6H10008	09-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

WQ-FPT_071816_SW_10

1607586-19

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Me	thyl Hg Disti	llation for	Water								
Methyl Mercury (as Mercury)	0.035	0.026	0.050	ng/L	1.25	F608273	11-Aug-16	6H12011	12-Aug-16	EPA 1630/FGS-070	J
Sample Preparation: EPA 1631E Br	Cl Oxidation	I									
Mercury	1.44	0.08	0.50	ng/L	1	F608263	21-Jul-16	6H11005	11-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

WQ-FPT_071816_SW_10 Dissolved 1607586-20

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013	Methyl Hg Disti	llation fo	r Water								
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L	1.25	F608273	11-Aug-16	6H12011	12-Aug-16	EPA 1630/FGS-070	U
Sample Preparation: EPA 16311	E BrCl Oxidation	1									
Mercury	0.50	0.08	0.50	ng/L	1	F608263	21-Jul-16	6Н11005	11-Aug-16	EPA 1631E	

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

EB_071916_SW_QC Dissolved

1607586-21

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 M	lethyl Hg Disti	llation fo	r Water								
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L	1.25	F608273	11-Aug-16	6H12011	12-Aug-16	EPA 1630/FGS-070	U
Sample Preparation: EPA 1631E F	BrCl Oxidation	1									
Mercury	ND	0.08	0.50	ng/L	1	F608263	21-Jul-16	6Н11005	11-Aug-16	EPA 1631E	U

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H03012 - F608139											
Cal Standard (6H03012-CAL1)					Prepared &	Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	0.041	-		ng/L	0.050050		81.7				
Cal Standard (6H03012-CAL2)					Prepared &	Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	0.197	-		ng/L	0.20020		98.2				
Cal Standard (6H03012-CAL3)					Prepared &	Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	1.044	-		ng/L	1.0010		104				
Cal Standard (6H03012-CAL4)					Prepared &	Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	2.304	-		ng/L	2.0020		115				
Cal Standard (6H03012-CAL5)					Prepared &	Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	4.015	-		ng/L	4.0040		100				
Calibration Blank (6H03012-CCB1)					Prepared &	Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	0.018	-		ng/L	-						
Calibration Blank (6H03012-CCB2)					Prepared &	Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	0.001	-		ng/L							
Calibration Blank (6H03012-CCB3)					Prepared &	Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	-0.001	-		ng/L	•						
Calibration Check (6H03012-CCV1)					Prepared &	Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	0.538	-		ng/L	0.50049		107	67-133			
Calibration Check (6H03012-CCV2)					Prepared &	Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	0.546	-		ng/L	0.50049		109	67-133			

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H03012 - F608139											
Calibration Check (6H03012-CCV3)					Prepared &	Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	0.620	-		ng/L	0.50049		124	67-133			
Instrument Blank (6H03012-IBL1)					Prepared &	: Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	ND	0.021	0.040	ng/L							U
Initial Cal Blank (6H03012-ICB1)					Prepared &	: Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	0.012	-		ng/L							
Initial Cal Check (6H03012-ICV1)					Prepared &	: Analyzed:	03-Aug-16				
Methyl Mercury (as Mercury)	0.553	-		ng/L	0.50049		110	67-133			
Batch 6H08006 - F608200											
Cal Standard (6H08006-CAL1)					Prepared &	: Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	0.049	-		ng/L	0.050050		98.7				
Cal Standard (6H08006-CAL2)					Prepared &	: Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	0.193	-		ng/L	0.20020		96.3				
Cal Standard (6H08006-CAL3)					Prepared &	: Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	1.133	-		ng/L	1.0010		113				
Cal Standard (6H08006-CAL4)					Prepared &	: Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	1.989	-		ng/L	2.0020		99.4				
Cal Standard (6H08006-CAL5)					Prepared &	: Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	3.683	-		ng/L	4.0040		92.0				

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H08006 - F608200											
Calibration Blank (6H08006-CCB1)					Prepared &	Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	0.009	-		ng/L							
Calibration Blank (6H08006-CCB2)					Prepared &	Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	0.006	-		ng/L							
Calibration Blank (6H08006-CCB3)					Prepared &	: Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	0.007	-		ng/L							
Calibration Blank (6H08006-CCB4)					Prepared &	Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	0.002	-		ng/L							
Calibration Blank (6H08006-CCB5)					Prepared &	: Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	0.005	-		ng/L							
Calibration Blank (6H08006-CCB6)					Prepared &	: Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	0.014	-		ng/L							
Calibration Blank (6H08006-CCB7)					Prepared &	: Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	0.0002	-		ng/L	•						
Calibration Blank (6H08006-CCB8)					Prepared: ()5-Aug-16 /	Analyzed: 0	6-Aug-16			
Methyl Mercury (as Mercury)	-0.0002	-		ng/L	*						τ
Calibration Check (6H08006-CCV1)					Prepared &	: Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	0.652	-		ng/L	0.50049		130	67-133			
Calibration Check (6H08006-CCV2)					Prepared &	: Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	0.583	-		ng/L	0.50049	-	116	67-133			

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Limit	Units	Level	Result	%REC	Limits	KPD	Limit	Notes
Batch 6H08006 - F608200											
Calibration Check (6H08006-CCV3)					Prepared &	Analyzed:	05-Aug-16				
Methyl Mercury (as Mercury)	0.549	-		ng/L	0.50049		110	67-133			
Calibration Check (6H08006-CCV4)					Prepared &	Analyzed:	05-Aug-16	•			
Methyl Mercury (as Mercury)	0.523	-		ng/L	0.50049		105	67-133			
Calibration Check (6H08006-CCV5)					Prepared &	Analyzed:	05-Aug-16	•			
Methyl Mercury (as Mercury)	0.426	-		ng/L	0.50049		85.0	67-133			
Calibration Check (6H08006-CCV6)					Prepared &	Analyzed:	05-Aug-16	·			
Methyl Mercury (as Mercury)	0.477	-		ng/L	0.50049		95.4	67-133			
Calibration Check (6H08006-CCV7)					Prepared &	Analyzed:	05-Aug-16	•			
Methyl Mercury (as Mercury)	0.485	-		ng/L	0.50049		96.9	67-133			
Calibration Check (6H08006-CCV8)					Prepared: ()5-Aug-16 A	Analyzed: 0	6-Aug-16			
Methyl Mercury (as Mercury)	0.526	-		ng/L	0.50049		105	67-133			
Instrument Blank (6H08006-IBL1)					Prepared &	Analyzed:	05-Aug-16	•			
Methyl Mercury (as Mercury)	ND	0.021	0.040	ng/L							
Initial Cal Blank (6H08006-ICB1)					Prepared &	Analyzed:	05-Aug-16	,			
Methyl Mercury (as Mercury)	0.015	-		ng/L							
Initial Cal Check (6H08006-ICV1)					Prepared &	Analyzed:	05-Aug-16	,			
Methyl Mercury (as Mercury)	0.616	-		ng/L	0.50049		123	67-133			
Batch 6H10008 - F608240											
Cal Standard (6H10008-CAL1)					Prepared &	z Analyzed:	09-Aug-16				
Mercury	0.51	-		ng/L	0.50100		103				

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H10008 - F608240											
Cal Standard (6H10008-CAL2)					Prepared &	: Analyzed:	09-Aug-16				
Mercury	1.05	-		ng/L	1.0020		105				
Cal Standard (6H10008-CAL3)					Prepared &	Analyzed:	09-Aug-16				
Mercury	4.88	-		ng/L	5.0100		97.3				
Cal Standard (6H10008-CAL4)					Prepared &	: Analyzed:	09-Aug-16				
Mercury	19.46	-		ng/L	20.040		97.1				
Cal Standard (6H10008-CAL5)					Prepared &	Analyzed:	09-Aug-16				
Mercury	38.89	-		ng/L	40.080		97.0				
Calibration Blank (6H10008-CCB1)					Prepared &	Analyzed:	09-Aug-16				
Mercury	0.07	-		ng/L							
Calibration Blank (6H10008-CCB2)					Prepared &	Analyzed:	09-Aug-16				
Mercury	0.04	-		ng/L							
Calibration Blank (6H10008-CCB3)					Prepared &	Analyzed:	09-Aug-16				
Mercury	0.02	-		ng/L							
Calibration Blank (6H10008-CCB4)					Prepared &	Analyzed:	09-Aug-16				
Mercury	0.09	-		ng/L							
Calibration Blank (6H10008-CCB5)					Prepared &	Analyzed:	09-Aug-16				
Mercury	0.08	-		ng/L							
Calibration Blank (6H10008-CCB6)					Prepared &	Analyzed:	09-Aug-16				
Mercury	0.11	-		ng/L							

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
							, , , , , , , , , , , , , , , , , , , ,				
Batch 6H10008 - F608240											
Calibration Blank (6H10008-CCB7)					Prepared &	Analyzed:	09-Aug-16				
Mercury	0.06	-		ng/L							
Calibration Blank (6H10008-CCB8)					Prepared &	Analyzed:	09-Aug-16				
Mercury	0.04	-		ng/L							
Calibration Blank (6H10008-CCB9)					Prepared &	Analyzed:	09-Aug-16				
Mercury	0.04	-		ng/L							
Calibration Blank (6H10008-CCBA)					Prepared &	Analyzed:	09-Aug-16				
Mercury	0.22	-		ng/L							
Calibration Check (6H10008-CCV1)					Prepared &	Analyzed:	09-Aug-16				
Mercury	5.24	-		ng/L	5.0000		105	77-123			
Calibration Check (6H10008-CCV2)					Prepared &	Analyzed:	09-Aug-16				
Mercury	5.13	-		ng/L	5.0000		103	77-123			
Calibration Check (6H10008-CCV3)					Prepared &	Analyzed:	09-Aug-16				
Mercury	5.27	-		ng/L	5.0000		105	77-123			
Calibration Check (6H10008-CCV4)					Prepared &	Analyzed:	09-Aug-16				
Mercury	4.99	-		ng/L	5.0000		99.9	77-123			
Calibration Check (6H10008-CCV5)					Prepared &	Analyzed:	09-Aug-16				
Mercury	5.04	-		ng/L	5.0000		101	77-123			
Calibration Check (6H10008-CCV6)					Prepared &	Analyzed:	09-Aug-16				
Mercury	5.09	-		ng/L	5.0000		102	77-123			

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H10008 - F608240											
Calibration Check (6H10008-CCV7)					Prepared &	Analyzed:	09-Aug-16				
Mercury	5.20	-		ng/L	5.0000		104	77-123			
Calibration Check (6H10008-CCV8)					Prepared &	Analyzed:	09-Aug-16				
Mercury	5.07	-		ng/L	5.0000		101	77-123			
Calibration Check (6H10008-CCV9)					Prepared &	Analyzed:	09-Aug-16				
Mercury	4.99	-		ng/L	5.0000		99.8	77-123			
Calibration Check (6H10008-CCVA)					Prepared &	: Analyzed:	09-Aug-16				
Mercury	5.25	-		ng/L	5.0000		105	77-123			
Instrument Blank (6H10008-IBL1)					Prepared &	: Analyzed:	09-Aug-16				
Mercury	ND	0.08	0.50	ng/L							U
Instrument Blank (6H10008-IBL2)					Prepared &	: Analyzed:	09-Aug-16				
Mercury	ND	0.08	0.50	ng/L							U
Instrument Blank (6H10008-IBL3)					Prepared &	: Analyzed:	09-Aug-16				
Mercury	ND	0.08	0.50	ng/L							U
Initial Cal Check (6H10008-ICV1)					Prepared &	: Analyzed:	09-Aug-16				
Mercury	5.27	-		ng/L	5.0000		105	77-123			
Batch 6H11005 - F608263											
Cal Standard (6H11005-CAL1)					Prepared: 1	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	0.50	-		ng/L	0.50100		99.6				

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
							,				
Batch 6H11005 - F608263											
Cal Standard (6H11005-CAL2)					Prepared: 1	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	1.02	-		ng/L	1.0020		102				
Cal Standard (6H11005-CAL3)					Prepared: 1	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	4.95	-		ng/L	5.0100		98.9				
Cal Standard (6H11005-CAL4)					Prepared: 1	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	19.82	-		ng/L	20.040		98.9				
Cal Standard (6H11005-CAL5)					Prepared: 1	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	39.82	-		ng/L	40.080		99.3				
Calibration Blank (6H11005-CCB1)					Prepared: 1	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	-0.01	-		ng/L		·	·				1
Calibration Blank (6H11005-CCB2)					Prepared: 1	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	-0.006	-		ng/L							1
Calibration Blank (6H11005-CCB3)					Prepared: 1	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	0.12	-		ng/L							
Calibration Blank (6H11005-CCB5)					Prepared: 1	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	0.53	-		ng/L							
Calibration Check (6H11005-CCV1)					Prepared: 1	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	5.24	-		ng/L	5.0000		105	77-123			
Calibration Check (6H11005-CCV2)					Prepared: 1	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	5.43	-		ng/L	5.0000		109	77-123			

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511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H11005 - F608263											
Calibration Check (6H11005-CCV3)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	5.64	-		ng/L	5.0000		113	77-123			
Instrument Blank (6H11005-IBL1)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	ND	0.08	0.50	ng/L							1
Instrument Blank (6H11005-IBL2)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	ND	0.08	0.50	ng/L	•						1
Instrument Blank (6H11005-IBL3)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	ND	0.08	0.50	ng/L							1
Initial Cal Check (6H11005-ICV1)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	5.42	-		ng/L	5.0000		108	77-123			
Batch 6H11011 - F608251											
Cal Standard (6H11011-CAL1)					Prepared &	Analyzed:	11-Aug-16	5			
Methyl Mercury (as Mercury)	0.052	-		ng/L	0.050050		104				
Cal Standard (6H11011-CAL2)					Prepared &	Analyzed:	11-Aug-16	5			
Methyl Mercury (as Mercury)	0.178	-		ng/L	0.20020	•	89.0				
Cal Standard (6H11011-CAL3)					Prepared &	Analyzed:	11-Aug-16	5			
Methyl Mercury (as Mercury)	1.008	-		ng/L	1.0010		101				
Cal Standard (6H11011-CAL4)					Prepared &	Analyzed:	11-Aug-16	5			
Methyl Mercury (as Mercury)	2.032	-		ng/L	2.0020		101				

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H11011 - F608251											
Cal Standard (6H11011-CAL5)					Prepared &	: Analyzed:	11-Aug-16				
Methyl Mercury (as Mercury)	4.164	-		ng/L	4.0040		104				
Calibration Blank (6H11011-CCB1)					Prepared &	Analyzed:	11-Aug-16				
Methyl Mercury (as Mercury)	0.005	-		ng/L							
Calibration Blank (6H11011-CCB2)					Prepared &	: Analyzed:	11-Aug-16				
Methyl Mercury (as Mercury)	0.0002	-		ng/L							
Calibration Blank (6H11011-CCB3)					Prepared &	: Analyzed:	11-Aug-16				
Methyl Mercury (as Mercury)	0.003	-		ng/L	-						
Calibration Check (6H11011-CCV1)					Prepared &	: Analyzed:	11-Aug-16				
Methyl Mercury (as Mercury)	0.365	-		ng/L	0.50049		73.0	67-133			
Calibration Check (6H11011-CCV2)					Prepared &	: Analyzed:	11-Aug-16				
Methyl Mercury (as Mercury)	0.364	-		ng/L	0.50049		72.6	67-133			
Calibration Check (6H11011-CCV3)					Prepared &	Analyzed:	11-Aug-16				
Methyl Mercury (as Mercury)	0.340	-		ng/L	0.50049		67.9	67-133			
Instrument Blank (6H11011-IBL1)					Prepared &	: Analyzed:	11-Aug-16				
Methyl Mercury (as Mercury)	ND	0.021	0.040	ng/L	•						
Initial Cal Blank (6H11011-ICB1)					Prepared &	: Analyzed:	11-Aug-16				
Methyl Mercury (as Mercury)	0.016	-		ng/L	*						
Initial Cal Check (6H11011-ICV1)					Prepared &	: Analyzed:	11-Aug-16				
Methyl Mercury (as Mercury)	0.539	-		ng/L	0.50049		108	67-133			

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H12011 - F608273											
Cal Standard (6H12011-CAL1)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.049	-		ng/L	0.050050		97.4				
Cal Standard (6H12011-CAL2)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.211	-		ng/L	0.20020		105				
Cal Standard (6H12011-CAL3)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.829	-		ng/L	1.0010		82.8				
Cal Standard (6H12011-CAL4)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	1.982	-		ng/L	2.0020		99.0				
Cal Standard (6H12011-CAL5)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	4.602	-		ng/L	4.0040		115				
Calibration Blank (6H12011-CCB1)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.005	-		ng/L	-	*	-				
Calibration Blank (6H12011-CCB2)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.001	-		ng/L	-						
Calibration Blank (6H12011-CCB3)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.002	-		ng/L	-	•					
Calibration Blank (6H12011-CCB4)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.005	-		ng/L	*	-	<u> </u>				
Calibration Blank (6H12011-CCB5)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.001	-		ng/L	-	-					

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H12011 - F608273											
Calibration Blank (6H12011-CCB6)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.001	-		ng/L							
Calibration Check (6H12011-CCV1)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.449	-		ng/L	0.50049		89.8	67-133			
Calibration Check (6H12011-CCV2)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.599	-		ng/L	0.50049		120	67-133			
Calibration Check (6H12011-CCV3)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.515	-		ng/L	0.50049	-	103	67-133			
Calibration Check (6H12011-CCV5)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.621	-		ng/L	0.50049		124	67-133			
Calibration Check (6H12011-CCV6)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.619	-		ng/L	0.50049		124	67-133			
Calibration Check (6H12011-CCV7)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.440	-		ng/L	0.50049		87.9	67-133			
Calibration Check (6H12011-CCV8)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.479	-		ng/L	0.50049		95.7	67-133			
Instrument Blank (6H12011-IBL1)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	ND	0.021	0.040	ng/L			1100 10				
Initial Cal Blank (6H12011-ICB1)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.008	-		ng/L			<u> </u>				

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H12011 - F608273											
Initial Cal Check (6H12011-ICV1)					Prepared &	z Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.500	-		ng/L	0.50049	<u> </u>	99.9	67-133			
Batch F608139 - EFGS-013 Methyl	Hg Distillatio	on for Wate	er								
Blank (F608139-BLK1)					Prepared: ()2-Aug-16	Analyzed: (3-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U
Blank (F608139-BLK2)					Prepared: ()2-Aug-16	Analyzed: (3-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U
Blank (F608139-BLK3)					Prepared: ()2-Aug-16	Analyzed: (3-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L			-				U
LCS (F608139-BS1)					Prepared: ()2-Aug-16	Analyzed: (3-Aug-16			
Methyl Mercury (as Mercury)	1.835	0.026	0.050	ng/L	1.0010		183	70-130			QM-12
LCS Dup (F608139-BSD1)					Prepared: ()2-Aug-16	Analyzed: (3-Aug-16			
Methyl Mercury (as Mercury)	1.799	0.026	0.050	ng/L	1.0010		180	70-130	1.98	25	QM-12
Duplicate (F608139-DUP1)		Source	: 1607339-01	l	Prepared: ()2-Aug-16	Analyzed: (3-Aug-16			
Methyl Mercury (as Mercury)	0.156	0.026	0.050	ng/L	•	0.123			23.9	35	
Matrix Spike (F608139-MS1)		Source	: 1607159-01	l	Prepared: ()2-Aug-16	Analyzed: (3-Aug-16			
Methyl Mercury (as Mercury)	0.657	0.026	0.050	ng/L	1.0010	ND	65.7	65-130			
Matrix Spike (F608139-MS2)		Source	: 1607380-03	3	Prepared: ()2-Aug-16	Analyzed: (3-Aug-16			
Methyl Mercury (as Mercury)	2.143	0.026	0.050	ng/L	1.0010	0.154	199	65-130			QM-07

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

Quality Control Data

		Detection	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch F608139 - EFGS-013 Methyl I	Ig Distillatio	on for Wate	er								
Matrix Spike Dup (F608139-MSD1)		Source	1607159-01		Prepared: ()2-Aug-16	Analyzed: (3-Aug-16			
Methyl Mercury (as Mercury)	0.604	0.026	0.050	ng/L	1.0010	ND	60.3	65-130	8.49	35	QM-0
Matrix Spike Dup (F608139-MSD2)		Source	1607380-03	i	Prepared: ()2-Aug-16	Analyzed: (3-Aug-16			
Methyl Mercury (as Mercury)	1.821	0.026	0.050	ng/L	1.0010	0.154	167	65-130	16.2	35	QM-0°
Batch F608200 - EFGS-013 Methyl F	Ig Distillatio	on for Wate	er								
Blank (F608200-BLK1)					Prepared: ()4-Aug-16	Analyzed: ()5-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							Ţ
Blank (F608200-BLK2)					Prepared: ()4-Aug-16	Analyzed: (05-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							Ţ
Blank (F608200-BLK3)					Prepared: ()4-Aug-16	Analyzed: (5-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							Ţ
Batch F608240 - EPA 1631E BrCl Ox	idation										
Blank (F608240-BLK1)					Prepared &	: Analyzed:	09-Aug-16	ó			
Mercury	ND	0.08	0.50	ng/L							Ţ
Blank (F608240-BLK2)					Prepared &	: Analyzed:	09-Aug-16	<u> </u>			
Mercury	ND	0.08	0.50	ng/L							Ţ
Blank (F608240-BLK3)					Prepared &	Analyzed:	09-Aug-16	<u> </u>			
Mercury	ND	0.08	0.50	ng/L							J

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Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F608240 - EPA 1631E BrCl Ox	idation										
Blank (F608240-BLK4)					Prepared &	Analyzed:	09-Aug-16				
Mercury	0.25	0.09	0.52	ng/L							
LCS (F608240-BS1)					Prepared &	Analyzed:	09-Aug-16				
Mercury	14.69	0.08	0.50	ng/L	15.679		93.7	80-120			
LCS Dup (F608240-BSD1)					Prepared &	Analyzed:	09-Aug-16				
Mercury	14.94	0.08	0.50	ng/L	15.679	•	95.3	80-120	1.66	24	
Duplicate (F608240-DUP1)		Source:	1607586-05	;	Prepared &	Analyzed:	09-Aug-16				
Mercury	16.00	0.08	0.50	ng/L	-	16.12			0.805	24	
Matrix Spike (F608240-MS1)		Source:	1607586-11		Prepared &	Analyzed:	09-Aug-16				
Mercury	11.66	0.08	0.50	ng/L	10.120	2.55	90.0	71-125			
Matrix Spike (F608240-MS2)		Source:	1607586-12		Prepared &	Analyzed:	09-Aug-16				
Mercury	2.94	0.08	0.50	ng/L	2.5300	0.58	93.4	71-125			
Matrix Spike Dup (F608240-MSD1)		Source:	1607586-11		Prepared &	Analyzed:	09-Aug-16				
Mercury	11.89	0.08	0.50	ng/L	10.120	2.55	92.4	71-125	1.98	24	
Matrix Spike Dup (F608240-MSD2)		Source:	1607586-12		Prepared &	Analyzed:	09-Aug-16				
Mercury	2.93	0.08	0.50	ng/L	2.5300	0.58	92.7	71-125	0.588	24	
Batch F608251 - EFGS-013 Methyl H	g Distillatio	on for Wate	r								
Blank (F608251-BLK1)			-		Prepared: 09-Aug-16 Analyzed: 11-Aug-16						
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L	1						

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Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F608251 - EFGS-013 Methyl F					20,01	1100011	, , , ,	2311110		2,,,,,,	1.000
Blank (F608251-BLK2)					Prepared: 0	9-Aug-16	Analyzed:	1-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U
Blank (F608251-BLK3)					Prepared: 0	9-Aug-16	Analyzed: 1	1-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U
LCS (F608251-BS1)					Prepared: 0	9-Aug-16	Analyzed: 1	1-Aug-16			
Methyl Mercury (as Mercury)	0.916	0.026	0.050	ng/L	1.0010		91.5	70-130			
LCS Dup (F608251-BSD1)					Prepared: 0	9-Aug-16	Analyzed: 1	1-Aug-16			
Methyl Mercury (as Mercury)	0.967	0.026	0.050	ng/L	1.0010		96.6	70-130	5.44	25	
Duplicate (F608251-DUP1)		Source:	1607380-09	9RE2	Prepared: 0	9-Aug-16	Analyzed: 1	1-Aug-16			
Methyl Mercury (as Mercury)	0.461	0.026	0.050	ng/L		0.180			87.8	35	QR-07
Matrix Spike (F608251-MS1)		Source:	1607380-1	3RE2	Prepared: 0	9-Aug-16	Analyzed: 1	1-Aug-16			
Methyl Mercury (as Mercury)	1.473	0.026	0.050	ng/L	1.0010	0.395	108	65-130			
Matrix Spike (F608251-MS2)		Source:	1607586-0	8RE1	Prepared: 0	9-Aug-16	Analyzed: 1	1-Aug-16			
Methyl Mercury (as Mercury)	0.838	0.026	0.050	ng/L	1.0010	ND	83.7	65-130			
Matrix Spike Dup (F608251-MSD1)		Source:	1607380-1	3RE2	Prepared: 0	9-Aug-16	Analyzed: 1	1-Aug-16			
Methyl Mercury (as Mercury)	1.629	0.026	0.050	ng/L	1.0010	0.395	123	65-130	10.1	35	
Matrix Spike Dup (F608251-MSD2)		Source:	1607586-08	8RE1	Prepared: 0	9-Aug-16	Analyzed: 1	1-Aug-16			
Methyl Mercury (as Mercury)	1.137	0.026	0.050	ng/L	1.0010	ND	114	65-130	30.3	35	
Batch F608263 - EPA 1631E BrCl Ox	xidation										
Blank (F608263-BLK1)					Prepared: 1	0-Aug-16	Analyzed:	1-Aug-16			
Mercury	ND	0.08	0.50	ng/L							U

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F608263 - EPA 1631E BrCl Ox	xidation_										
Blank (F608263-BLK2)					Prepared:	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	ND	0.08	0.50	ng/L							Ţ
Blank (F608263-BLK3)					Prepared:	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	ND	0.08	0.50	ng/L							τ
Blank (F608263-BLK4)					Prepared:	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	ND	0.08	0.50	ng/L							Ţ
LCS (F608263-BS1)					Prepared:	10-Aug-16 A	Analyzed: 1	1-Aug-16			
Mercury	15.32	0.08	0.50	ng/L	15.679		97.7	80-120			
LCS Dup (F608263-BSD1)					Prepared:	10-Aug-16 A	Analyzed: 1	1-Aug-16			
Mercury	15.53	0.08	0.50	ng/L	15.679		99.1	80-120	1.42	24	
Matrix Spike (F608263-MS1)		Source:	1607542-06	5	Prepared:	10-Aug-16 A	Analyzed: 1	1-Aug-16			
Mercury	6.52	0.08	0.50	ng/L	5.0601	1.17	106	71-125			
Matrix Spike (F608263-MS2)		Source:	1607805-02	2	Prepared:	10-Aug-16 A	Analyzed: 1	1-Aug-16			
Mercury	7.16	0.08	0.50	ng/L	5.0601	1.81	106	71-125			
Matrix Spike Dup (F608263-MSD1)		Source:	1607542-06	5	Prepared:	10-Aug-16 A	Analyzed: 1	1-Aug-16			
Mercury	6.47	0.08	0.50	ng/L	5.0601	1.17	105	71-125	0.744	24	
Matrix Spike Dup (F608263-MSD2)		Source:	1607805-02	2	Prepared:	10-Aug-16 A	Analyzed: 1	1-Aug-16			
Mercury	7.29	0.08	0.50	ng/L	5.0601	1.81	108	71-125	1.77	24	
Batch F608273 - EFGS-013 Methyl F	Ig Distillatio	on for Wate	<u>r</u>								
Blank (F608273-BLK1)					Prepared:	11-Aug-16 A	Analyzed: 1	2-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							Ţ

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11720 Northcreek Pkwy N, Suite 400 Bothell, WA 98011 425.686.1996 Phone 425.686.3096 Fax

AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton16-Dec-16 16:15

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F608273 - EFGS-013 Methyl I	Hg Distillatio	n for Wate	r								
Blank (F608273-BLK2)					Prepared:	11-Aug-16	Analyzed:	12-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U
Blank (F608273-BLK3)					Prepared:	11-Aug-16	Analyzed:	12-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U
LCS (F608273-BS1)					Prepared:	11-Aug-16	Analyzed:	12-Aug-16			
Methyl Mercury (as Mercury)	0.704	0.026	0.050	ng/L	1.0010		70.3	70-130			
LCS Dup (F608273-BSD1)					Prepared:	11-Aug-16	Analyzed:	12-Aug-16			
Methyl Mercury (as Mercury)	0.968	0.026	0.050	ng/L	1.0010		96.7	70-130	31.6	25	QR-06
Duplicate (F608273-DUP1)		Source:	1607542-01		Prepared:	11-Aug-16	Analyzed:	12-Aug-16			
Methyl Mercury (as Mercury)	0.151	0.026	0.050	ng/L		0.051			98.7	35	QR-07
Matrix Spike (F608273-MS1)		Source:	1607586-12		Prepared:	11-Aug-16	Analyzed:	12-Aug-16			
Methyl Mercury (as Mercury)	1.006	0.026	0.050	ng/L	1.0010	ND	101	65-130			
Matrix Spike (F608273-MS2)		Source:	1607772-01		Prepared:	11-Aug-16	Analyzed:	12-Aug-16			
Methyl Mercury (as Mercury)	0.347	0.026	0.050	ng/L	1.0010	0.029	31.7	65-130			QM-07
Matrix Spike Dup (F608273-MSD1)		Source:	1607586-12		Prepared:	11-Aug-16	Analyzed:	12-Aug-16			
Methyl Mercury (as Mercury)	0.713	0.026	0.050	ng/L	1.0010	ND	71.2	65-130	34.1	35	
Matrix Spike Dup (F608273-MSD2)		Source:	1607772-01		Prepared:	11-Aug-16	Analyzed:	12-Aug-16			
Methyl Mercury (as Mercury)	0.277	0.026	0.050	ng/L	1.0010	0.029	24.8	65-130	22.3	35	QM-07

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11720 Northcreek Pkwy N, Suite 400 Bothell, WA 98011 425.686.1996 Phone 425.686.3096 Fax

AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 16-Dec-16 16:15

Notes and Definitions

U	Analyte was not detected and is reported as less than the LOD or as defined by the client. The LOD has been adjusted for any dilution or concentration of the sample.
QR-07	The RPD/RSD value for the matrix duplicate/triplicate was outside of acceptance limits. Batch QC acceptable based on MS/MSD and/or LCS/LCSD RPD values within control limits.
QR-06	The RPD value for the LCS/LCSD was outside of acceptance limits. Batch QC acceptable based on MS/MSD, and where applicable, matrix duplicate RPD value(s) within control limits.
QM-12	Continuing calibration verification (CCV) and/or blank spike/blank spike duplicate (BS/BSD) recoveries above upper control limits. All reported sample concentrations were below the reporting limit.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on LCS and LCSD recoveries within control limits and, when analysis permits, acceptable AS/ASD.
J	The result is an estimated concentration.
FB	This blank is a filtration blank. Data is reported for informational purposes only.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis

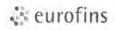
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Relative Percent Difference

RPD

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Frontier Global Sciences

Analysis Datasheet for Total Mercury

Date of Analysis:

August 09, 2016

Analyst: BC

Instrument #: Hg2600-3

LIMS Sequence #: 6H10008, 6H10009

Units ng/L

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.50 ng/L	64.73 units	129.46	51.76 units	103.53	102.8 %Rec
SEQ-CAL2	1	1.00 ng/L	118.77 units	118.77	105.80 units	105.80	105.1 %Rec
SEQ-CAL3	1	5.00 ng/L	503.93 units	100.79	490.96 units	98.19	97.5 %Rec
SEQ-CAL4	1	20.00 ng/L	1971.74 units	98.59	1958.77 units	97.94	97.3 %Rec
SEQ-CAL5	1	40.00 ng/L	3927.58 units	98.19	3914.61 units	97.87	97.2 %Rec
SEQ-CAL6	0	7.777					
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF 100.67

Corr. St Dev RF +/- 3.74

Corr. RSD CF 3.7% RSD

Uncorr. Mean RF

109.16

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEO-IBI	3	12.97 units	±3.36	0.12 ng/l	±0.03

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.014 ng/L	±0.047
BLK	2	1	0.235 ng/L	
BLK	3	3	9.215 ng/L	±6.528
BLK	4	3	18.119 ng/L	±3.701
BLK	5	0	0.000 ng/L	
BLK	6	0	0.000 ng/L	

Comments

InitialResult FinalResult InitialUnits

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Hg2600-3	BC	CAL	SEQ-IBL1 -	1	8/9/2016 8:10:26 47268-1.RAW +	8:10:26 AM-	9.93-		-3.0	-0.030	-0.030	ng/L	
Hg2600-3	BC	CAL	SEQ-IBL2 —	1	8/9/2016 8:14:34 47269-1.RAW -	8:14:34 AM-	12.39		-0.6	-0.006	-0.006	ng/L	
Hg2600-3	BC	CAL	SEQ-IBL3 =	1	8/9/2016 8:18:43 47270-1.RAW	8:18:43 AM-	16.58_		3.6	0.036	0.036	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL1_	1	8/9/2016 8:22:51 47271-1.RAW -	8:22:51 AM-	64.73		51.8	0.514	0.514	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL2	1	8/9/2016 8:27:00 47272-1.RAW -	8:27:00 AM-	118.77		105.8	1.051	1.051	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL3_	1	8/9/2016 8:31:08 47273-1.RAW -	8:31:08 AM-	503.93-		491.0	4.877	4.877	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL4-	1	8/9/2016 8:35:16 47274-1.RAW-	8:35:16 AM-	1971.74		1958.8	19.458	19.458	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL5 -	1	8/9/2016 8:39:25 47275-1.RAW -	8:39:25 AM-	3927.58-		3914.6	38.887	38.887	ng/L	
Hg2600-3	BC	CAL	SEQ-ICV1 =	1	8/9/2016 8:43:33 47276-1.RAW -	8:43:33 AM	543.92		531.0	5.274	5.274	ng/L	
Hg2600-3	BC	BLK	F608240-BLK1	1	8/9/2016 8:50:02 47277-1.RAW	8:50:02 AM	19.24	1	6.3	0.062	0.062		
Hg2600-3	BC	BLK	F608240-BLK2	1	8/9/2016 8:54:11 47278-1.RAW	8:54:11 AM	14.01	1	1.0	0.010	0.010	ng/L	
Hg2600-3	BC	BLK	F608240-BLK3	1	8/9/2016 8:58:19 47279-1.RAW	8:58:19 AM	9.82	1	-3.1	-0.031	-0.031	ng/L	
Hg2600-3	BC	SAM	F608240-BS1	1	8/9/2016 9:02:28 47280-1.RAW	9:02:28 AM-	1478.83	1	1465.9	14.548	14.548	ng/L	
Hg2600-3	BC	SAM	F608240-BSD1	1	8/9/2016 9:06:36 47281-1.RAW	9:06:36 AM	1503.39	1	1490.4	14.792	14.792	ng/L	
Hg2600-3	BC	BLK	F608240-BLK4	1	8/9/2016 9:10:44 47282-1.RAW	9:10:44 AM	36.67	2	23.7	0.235		ng/L	
Hg2600-3	BC	SAM	1607586-01	1	8/9/2016 9:14:53 47283-1.RAW	9:14:53 AM	181.48	1	168.5	1.660	0.235	ng/L	
Hg2600-3	BC	SAM	1607586-02	1	8/9/2016 9:19:01 47284-1.RAW	9:19:01 AM	139.65	1			1.660	ng/L	
Hg2600-3	BC	SAM	1607586-03	1	8/9/2016 9:23:10 47285-1.RAW				126.7	1.245	1.245	ng/L	
Hg2600-3	BC	SAM	1607586-04	1	8/9/2016 9:23:10 47285-1.RAW 8/9/2016 9:27:18 47286-1.RAW	9:23:10 AM	598.89 129.49	1	585.9	5.807	5.807	ng/L	
1g2600-3 1g2600-3	BC	CAL	SEQ-CCV1	1		9:27:18 AM		1	116.5	1.144	1.144	ng/L	
	BC	CAL	SEQ-CCB1	1	8/9/2016 9:31:27 47287-1.RAW	9:31:27 AM	540.44		527.5	5.240	5.240	ng/L	
Hg2600-3				1	8/9/2016 9:35:35 47288-1.RAW	9:35:35 AM	19.54		6.6	0.065	0.065	ng/L	
Hg2600-3	BC	SAM	1607586-05	1	8/9/2016 9:39:43 47289-1.RAW	9:39:43 AM	1621.51	.1	1608.5	15.965	15.965	ng/L	
1g2600-3	BC	SAM	1607586-06	1	8/9/2016 9:44:26 47290-1.RAW	9:44:26 AM	882.19	1	869.2	8.621	8.621	ng/L	
lg2600-3	BC	SAM	1607586-07	1	8/9/2016 9:48:34 47291-1.RAW	9:48:34 AM	817.16	1	804.2	7.975	7.975	ng/L	
lg2600-3	BC	SAM	1607586-08	1	8/9/2016 9:52:42 47292-1.RAW	9:52:42 AM	133.71	1	120.7	1.186	1.186	ng/L	
lg2600-3	BC	SAM	1607586-09	1	8/9/2016 9:56:51 47293-1.RAW	9:56:51 AM	186.14	1	173.2	1.706	1.706	ng/L	
ig2600-3	BC	SAM	1607586-10	1	8/9/2016 10:00:59 47294-1.RAW	10:00:59 AM	77.06	1	64.1	0.623	0.623	ng/L	
g2600-3	BC	SAM	1607586-11	1	8/9/2016 10:05:08 47295-1.RAW	10:05:08 AM	268.12	1	255.2	2.521	2.521	ng/L	
lg2600-3	BC	SAM	1607586-12	1	8/9/2016 10:09:16 47296-1.RAW	10:09:16 AM	72.26	1	59.3	0.575	0.575	ng/L	
g2600-3	BC	SAM	1607586-13	1	8/9/2016 10:13:24 47297-1.RAW	10:13:24 AM	272.40	1	259.4	2.563	2.563	ng/L	
g2600-3	BC	SAM	1607586-14	1	8/9/2016 10:17:33 47298-1.RAW	10:17:33 AM	72.12	1	59.2	0.574	0.574	ng/L	
g2600-3	BC	CAL	SEQ-CCV2	1	8/9/2016 10:21:41 47299-1.RAW	10:21:41 AM	529.68		516.7	5.133	5.133	ng/L	
lg2600-3	BC	CAL	SEQ-CCB2	1	8/9/2016 10:25:50 47300-1.RAW	10:25:50 AM	16.64		3.7	0.036	0.036	ng/L	
lg2600-3	BC	SAM	1608183-01	1	8/9/2016 10:29:58 47301-1.RAW	10:29:58 AM	426.28	1	413.3	4.092	4.092	ng/L	
lg2600-3	BC	SAM	1608183-02	1	8/9/2016 10:34:07 47302-1.RAW	10:34:07 AM	12.14	1	-0.8	-0.022	-0.022	ng/L	
lg2600-3	BC	SAM	1608183-03	1	8/9/2016 10:38:15 47303-1.RAW	10:38:15 AM	466.38	1	453.4	4.490	4.490	ng/L	
g2600-3	BC	SAM	WS	1	8/9/2016 10:42:23 47304-1.RAW	10:42:23 AM	1415.64		1402.7	Error	#VALUE!	ng/L	
g2600-3	BC	SAM	WS	10	8/9/2016 10:46:32 47305-1.RAW	10:46:32 AM	1454.51		1441.5	Error	#VALUE!	ng/L	
g2600-3	BC	SAM	ws	1	8/9/2016 10:50:40 47306-1.RAW	10:50:40 AM	30.74		17.8	Error	#VALUE!		
g2600-3	BC	SAM	1608183-04	1	8/9/2016 10:55:57 47307-1.RAW	10:55:57 AM	12,55	1	-0.4	-0.018	-0.018	ng/L	
2600-3	BC	SAM	1608183-05	10	8/9/2016 11:00:05 47308-1.RAW	11:00:05 AM	2703.49	2	2690.5	26,704	267.039	ng/L	
g2600-3	BC	SAM	1608183-06	1	8/9/2016 11:04:14 47309-1.RAW	11:04:14 AM	21.13	1	8.2	0.067	0.067	ng/L	
g2600-3	BC	SAM	F608240-DUP1	1	8/9/2016 11:08:22 47310-1.RAW	11:08:22 AM	1608.62	1	1595.7	15.837		ng/L	
2600-3	BC	CAL	SEQ-CCV3	1	8/9/2016 11:12:30 47311-1.RAW	11:12:30 AM	543.59	*	530.6	5.271	15.837	ng/L	
g2600-3	BC	CAL	SEQ-CCB3	1	8/9/2016 11:16:39 47312-1.RAW	11:16:39 AM	14.48				5.271	ng/L	
g2600-3	BC	SAM	F608240-MS1	1	8/9/2016 11:20:47 47313-1.RAW	11:10:39 AM	1176.41	1	1.5	0.015	0.015	ng/L	
2600-3	BC	SAM	F608240-MSD1	1		The state of the s		-	1163.4	11.544	11.544	ng/L	
g2600-3	BC	SAM	F608240-MS2	1	8/9/2016 11:24:56 47314-1.RAW	11:24:56 AM	1199.65	1	1186.7	11.775	11.775	ng/L	
g2600-3 g2600-3	BC	SAM	F608240-MSD2	1	8/9/2016 11:29:04 47315-1.RAW	11:29:04 AM	307.81	1	294.8	2.915	2.915	ng/L	
	BC	BLK	F608230-BLK1	100	8/9/2016 11:33:13 47316-1.RAW	11:33:13 AM	306.09	1	293.1	2.898	2.898	ng/L	
g2600-3			The state of the s		8/9/2016 11:46:20 47317-1.RAW	11:46:20 AM	29.80	3	16.8	0.167	16.722	ng/L	
2600-3	BC	BLK	F608230-BLK2	100	8/9/2016 11:50:28 47318-1.RAW	11:50:28 AM	17.87	3	4.9	0.049	4.871	ng/L	
2600-3	BC	BLK	F608230-BLK3	100	8/9/2016 11:54:37 47319-1.RAW	11:54:37 AM	19.06	3	6.1	0.061	6.053	ng/L	
2600-3	BC	SAM	F608230-BS1 -	500	8/9/2016 11:58:45 47320-1.RAW =	11:58:45 AM	910.51	3	897.5	8.898	4448.840	ng/L	
2600-3	BC	SAM	F608230-BSD1	500	8/9/2016 12:02:54 47321-1.RAW	12:02:54 PM	946.81	3	933.8	9.258	4629,141	ng/L	
2600-3	BC	SAM	1608143-01	100	8/9/2016 12:07:02 47322-1 RAW	12:07:02 PM	2065.31	3	2052.3	20.296	2029.563	ng/L	
g2600-3	BC	CAL	SEQ-CCV4	1	8/9/2016 12:11:10 47323-1.RAW	12:11:10 PM	515.70		502.7	4.994	4.994	ng/L	
g2600-3	BC	CAL	SEQ-CCB4	1	8/9/2016 12:15:19 47324-1 RAW	12:15:19 PM	22.11		9.1	0.091	0.091	ng/L	

No PB

Correction?

RESP

Batch

ID

Uncorrected

Response

FileID

RunEnd

Sample

LabNumber

Dilution

Analyzed

Instrument Analyst Type

		Sample				7.755 V 1	Uncorrected	Batch	No PB	33.2				
Instrument	Analyst	Туре	LabNumber	Dilution	Analyzed FileID	RunEnd	Response	ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2600-3	BC	SAM	1608143-02	100	8/9/2016 12:19:27 47325-1.RAW	12:19:27 PM	9165.87	3		9152.9	90.832	9083.193	ng/L	
Hg2600-3	BC	SAM	1608143-03	100	8/9/2016 12:23:36 47326-1.RAW	12:23:36 PM	10607.83	3		10594.9	105.156	10515.623	ng/L	
Hg2600-3	BC	SAM	1608143-04	100	8/9/2016 12:27:44 47327-1.RAW	12:27:44 PM	2624.68	3		2611.7	25.852	2585.236	ng/L	
Hg2600-3	BC	SAM	1608143-05	100	8/9/2016 12:31:53 47328-1.RAW	12:31:53 PM	50.91	3		37.9	0.285	28.477	ng/L	
Hg2600-3	BC	SAM	1608143-02RE1	500	8/9/2016 12:41:36 47329-1.RAW	12:41:36 PM	1920.80	3		1907.8	18.934	9466.904	ng/L	
Hg2600-3	BC	SAM	1608143-03RE1	500	8/9/2016 12:45:44 47330-1.RAW	12:45:44 PM	2113.26	3		2100.3	20.846	10422.843	ng/L	
Hg2600-3	BC	SAM	1608143-04RE1	100	8/9/2016 12:49:52 47331-1.RAW	12:49:52 PM	2677.10	3		2664.1	26.373	2637.310	ng/L	
Hg2600-3	BC	SAM	1608143-01B	100	8/9/2016 12:54:01 47332-1.RAW	12:54:01 PM	50.11	3		37.1	0.277	27.682	ng/L	
Hg2600-3	BC	SAM	1608143-02B	100	8/9/2016 12:58:09 47333-1.RAW	12:58:09 PM	37.22	3		24.3	0.149	14.878	ng/L	
Hg2600-3	BC	SAM	1608143-03B	100	8/9/2016 13:02:18 47334-1.RAW	1:02:18 PM	36.21	3		23.2	0.139	13.874	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV5	1	8/9/2016 13:06:26 47335-1.RAW	1:06:26 PM	519.97			507.0	5.037	5.037	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB5	1	8/9/2016 13:10:35 47336-1.RAW	1:10:35 PM	21.44			8.5	0.084	0.084	ng/L	
1g2600-3	BC	SAM	1608143-04B	100	8/9/2016 13:14:43 47337-1.RAW	1:14:43 PM	26.02	3		13.1	0.038	3.752	ng/L	
Hg2600-3	BC	SAM	1608143-05B	100	8/9/2016 13:18:51 47338-1.RAW	1:18:51 PM	32.16	3		19.2	0.099	9.851	ng/L	
Hg2600-3	BC	SAM	F608230-DUP1	100	8/9/2016 13:23:00 47339-1.RAW	1:23:00 PM	2064.59	3		2051.6	20.288	2028.848	ng/L	
dg2600-3	BC	SAM	F608230-MS1	500	8/9/2016 13:27:08 47340-1.RAW	1:27:08 PM	1383.01	3		1370.0	13.591	6795.726	ng/L	
tg2600-3	BC	SAM	F608230-MSD1	500	8/9/2016 13:31:17 47341-1.RAW	1:31:17 PM	1386.48	3		1373.5	13.626	6812.961	ng/L	
lg2600-3	BC	BLK	F608224-BLK1	100	8/9/2016 13:37:40 47342-1.RAW	1:37:40 PM	35.50	4		22.5	0.224	22,384	ng/L	
lg2600-3	BC	BLK	F608224-BLK2	100	8/9/2016 13:41:49 47343-1.RAW	1:41:49 PM	28.83	-4		15.9	0.158	15.758	ng/L	
lg2600-3	BC	BLK	F608224-BLK3	100	8/9/2016 13:45:57 47344-1.RAW	1:45:57 PM	29.29	4		16.3	0.162	16.215	ng/L	
tg2600-3	BC	SAM	F608224-BS1	500	8/9/2016 13:50:06 47345-1.RAW	1:50:06 PM-	367.74			354.8	3.488	1744.023	ng/L	
lg2600-3	BC	SAM	F608224-BSD1	500	8/9/2016 13:54:14 47346-1.RAW	1:54:14 PM	377.94	4		365.0	3.589	1794.686	ng/L	
lg2600-3	BC	CAL	SEQ-CCV6	1	8/9/2016 13:58:22 47347-1.RAW	1:58:22 PM	525.48			512.5	5.091	5.091	ng/L	
lg2600-3	BC	CAL	SEQ-CCB6	1	8/9/2016 14:02:31 47348-1.RAW	2:02:31 PM	23.87			10.9	0.108	0.108	ng/L	
lg2600-3	BC	SAM	1608154-01	2500	8/9/2016 14:06:39 47349-1.RAW	2:06:39 PM	1232.32	4		1219.4	12.106	30264.235	ng/L	
lg2600-3	BC	SAM	1608154-07	2500	8/9/2016 14:10:48 47350-1.RAW	2:10:48 PM	139.51	4		126.5	1.250	3124.555	ng/L	
g2600-3	BC	SAM	1608154-11	2500	8/9/2016 14:14:56 47351-1.RAW	2:14:56 PM	25.39	4		12.4	0.116	290.411	ng/L	
g2600-3	BC	SAM	1608154-02	2500	8/9/2016 14:21:56 47352-1.RAW	2:21:56 PM	873.22	4		860.3	8.538	21346.071	ng/L	
lg2600-3	BC	SAM	1608154-03	2500	8/9/2016 14:26:04 47353-1.RAW	2:26:04 PM	1119.56	4		1106.6	10.986	27463.867	ng/L	
lg2600-3	BC	SAM	1608154-04	2500	8/9/2016 14:30:13 47354-1.RAW	2:30:13 PM	862.92	4		850.0	8.436	21090.273	ng/L	
lg2600-3	BC	SAM	1608154-05	2500	8/9/2016 14:34:21 47355-1.RAW	2:34:21 PM	680.11	4		667.1	6.620	16550.229	ng/L	
lg2600-3	BC	SAM	1608154-06	2500	8/9/2016 14:38:30 47356-1.RAW	2:38:30 PM	22.73	4		9.8	0.090	224.351	ng/L	
lg2600-3	BC	SAM	1608154-08	1000	8/9/2016 14:42:38 47357-1.RAW	2:42:38 PM	199.40	4		186.4	1.834	1833,892	ng/L	
lg2600-3	BC BC	SAM	1608154-09	1000	8/9/2016 14:46:46 47358-1.RAW	2:46:46 PM	656.65	4	-	643.7	6.376	6376.171	ng/L	
g2600-3	BC	CAL	SEQ-CCV7		8/9/2016 14:50:55 47359-1.RAW	2:50:55 PM	536.87			523.9	5.204	5.204	ng/L	
lg2600-3	BC	SAM	SEQ-CCB7 1608154-10	1000	8/9/2016 14:55:03 47360-1.RAW	2:55:03 PM 2:59:12 PM	19.33 464.26	4		6.4	0.063	0.063	ng/L	
g2600-3	BC	SAM	1608154-11RE1	100	8/9/2016 14:59:12 47361-1.RAW 8/9/2016 15:03:20 47362-1.RAW	3:03:20 PM	71.85	4	-	451.3 58.9	4.465	4464.986	ng/L	
g2600-3 g2600-3	BC	SAM	1608154-11	100	8/9/2016 15:07:28 47363-1.RAW	3:07:28 PM	52.82	4		39.9	0.404	40.375 21.470	ng/L	
g2600-3	BC	SAM	1608154-13	100	8/9/2016 15:11:37 47364-1,RAW	3:11:37 PM	54.46	4		41.5	0.215	23.100	ng/L	
g2600-3	BC	SAM	1608154-06RE1	100	8/9/2016 15:15:45 47365-1.RAW	3:15:45 PM	29.44	4		16.5	-0.018	-1.755	ng/L	
g2600-3	BC	SAM	1608154-00RE1	100	8/9/2016 15:19:54 47366-1.RAW	3:19:54 PM	32.81	4		19.8	0.016	1.593	ng/L	
g2600-3	BC	SAM	1608154-02B	100	8/9/2016 15:24:02 47367-1.RAW	3:24:02 PM	30.10	4		17.1	-0.011		ng/L	
g2600-3 g2600-3	BC	SAM	1608154-02B	100	8/9/2016 15:24:02 47367-1.RAW 8/9/2016 15:28:10 47368-1.RAW	3:28:10 PM	35.57	4	-	22.6	0.043	-1.099 4.334	ng/L	
g2600-3	BC	SAM	1608154-03B	100	8/9/2016 15:32:19 47369-1.RAW	3:32:19 PM	24.23	4		11.3	-0.069	-6.931	ng/L ng/L	
g2600-3	BC	SAM	1608154-05B	100	8/9/2016 15:36:28 47370-1.RAW	3:36:28 PM	27.75	4		14.8	-0.034	-3.434	ng/L	
g2600-3	BC	CAL	SEQ-CCV8	1	8/9/2016 15:40:37 47371-1.RAW	3:40:37 PM	523.35	-		510.4	5.070	5.070	ng/L	
g2600-3	BC	CAL	SEQ-CCB8	1	8/9/2016 15:44:45 47372-1.RAW	3:44:45 PM	17.30			4.3	0.043	0.043	ng/L	
g2600-3	BC	SAM	1608154-06B	100	8/9/2016 15:48:54 47373-1.RAW	3:48:54 PM	33.21	4		20.2	0.020	1.990	ng/L	
2600-3	BC	SAM	1608154-07B	100	8/9/2016 15:53:02 47374-1.RAW	3:53:02 PM	57.69	4		44.7	0.263	26.308	ng/L	
2600-3	BC	SAM	1608154-08B	100	8/9/2016 15:57:11 47375-1.RAW	3:57:11 PM	39.58	4		26.6	0.083	8.318	ng/L	
2600-3	BC	SAM	1608154-09B	100	8/9/2016 16:01:19 47376-1.RAW	4:01:19 PM	19.73	4		6.8	-0.114	-11.401	ng/L	
2600-3	BC	SAM	1608154-10B	100	8/9/2016 16:05:28 47377-1.RAW	4:05:28 PM	35.13	4		22.2	0.039	3.897	ng/L	
2600-3	BC	SAM	1608154-11B	100	8/9/2016 16:09:36 47378-1.RAW	4:09:36 PM	23.82	4		10.9	-0.073	-7.338	ng/L	
2600-3	BC	SAM	1608154-12B	100	8/9/2016 16:13:44 47379-1.RAW	4:13:44 PM	26.32	4		13.4	-0.049	-4.854	ng/L	
2600-3	BC		1608154-13B	100	8/9/2016 16:17:53 47380-1.RAW	4:17:53 PM	26.91	4		13.9	-0.043	-4.268	ng/L	
2600-3	BC		1608154-04C	5000	8/9/2016 16:22:01 47381-1.RAW	4:22:01 PM	1537.82	4		1524.9	15.144	75720.632	ng/L	
2600-3	BC		1608154-09C	500	8/9/2016 16:26:10 47382-1.RAW	4:26:10 PM	682.55	4		669.6	6.615	3307.670	ng/L	
2600-3	BC		SEQ-CCV9	1	8/9/2016 16:30:18 47383-1.RAW	4:30:18 PM	515.53			502.6	4.992	4.992	ng/L	
2600-3	BC		SEQ-CCB9	1	8/9/2016 16:34:26 47384-1.RAW	4:34:26 PM	16.53			3.6	0.035	0.035	ng/L	
2600-3	BC		1608154-13C	500	8/9/2016 16:38:35 47385-1.RAW	4:38:35 PM	632.92	4		620.0	6.122	3061.160	ng/L	
2600-3	BC		F608224-DUP1	2500	8/9/2016 16:42:43 47386-1.RAW	4:42:43 PM	932.28	4		919.3	9.125	22812.812	ng/L	
2600-3	BC		F608224-MS1	2500	8/9/2016 16:46:52 47387-1.RAW	4:46:52 PM	2903.00	4		2890.0	28.702	71755.182	ng/L	
g2600-3	BC		F608224-MSD1	2500	8/9/2016 16:51:00 47388-1.RAW	4:51:00 PM	2842.05	4		2829.1	28.097	70241.503	ng/L	
	BC		F608224-MS2	2500	8/9/2016 16:55:09 47389-1.RAW	4:55:09 PM	2651.96	4		2639.0	26.208	65520.663	ng/L	

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		Sample						Uncorrected	Batch	No PB					***************************************
instrument	Analyst	Туре	LabNumber	Dilution	Analyzed	FileID	RunEnd	Response	ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2600-3	BC	SAM	F608224-MSD2	2500	8/9/2016 16:59:17	47390-1.RAW	4:59:17 PM	2689.89	4		2676.9	26.585	66462,645	ng/L	
Hg2600-3	BC	SAM	1608154-04RE1C	2500	8/9/2016 17:03:25	47391-1.RAW	5:03:25 PM	3442.07	4		3429.1	34.057	85142.860	ng/L	
Hg2600-3	BC	SAM	1608154-09RE1C	200	8/9/2016 17:07:34	47392-1.RAW	5:07:34 PM	2138.25	4		2125.3	21.022	4204.354	ng/L	
Hg2600-3	BC	SAM	1608154-13RE1C	200	8/9/2016 17:11:42	47393-1.RAW	5:11:42 PM	2023.96	4		2011.0	19.886	3977.284	ng/L	
Hg2600-3	BC	CAL	SEQ-CCVA	1	8/9/2016 17:15:51	47394-1.RAW	5:15:51 PM	541.28			528.3	5.248	5.248	ng/L	
Hg2600-3	BC	CAL	SEQ-CCBA	1	8/9/2016 17:19:59	47395-1.RAW -	5:19:59 PM	35.59	<		22.6	0.225	0.225	ng/L	

TotalMercury EPA1631	Operate BC Worksh THg260 Method #### Descrip THg260	CalibFa	100.66	Calib Eqn: Status: R ² ;	Conc = (Area-12.9 QC Warnings:4/QC 1			8/9/2016 Blank SD: 0:00:00 Blank RSD%: CF SD: CF RSD%:	3.36305 25.93168 3.73792 3.71331					
Sample/ID	Location Rinse	Dilute	Blank	Conc (ppt)	MB% FinalCond	Rec%	Q	A RawData	RunEnd		Control (etf)	Flags	RunCount	Comment
Clean			0.00	1.04				47263-1.RAW	7:51:01	104.78	Clean	OK	1	
lean			0.00	0.02				47264-1.RAW	7:53:52	1.74	Clean	OK.	1	
/S			12.97	0.00				47265-1.RAW	7:58:01	12.05	Sample	OK	1	
'S			12.97	0.00				47266-1.RAW	8:02:09		Sample	OK	1	
rs .			12.97	0.00				47267-1.RAW	8:06:17		Sample	OK	1	
EQ-IBL1	A1	1	0.00	0.10				47268-1.RAW	8:10:26	9.93	Sample	OK	1	
EQ-IBL2	A2	Ť	0.00	0.12				47269-1.RAW	8:14:34		Sample	OK	1	
EQ-IBL3	A3	Ť	0.00	0.16				47270-1.RAW	8:18:43	16.58	Sample	OK	1	
EQ-CAL1	A4	1	12.97	0.51		102.8	4	47271-1.RAW	8:22:51		Sample	OK	1	
EQ-CAL2	A5	1	12.97	1.05		105.1		47272-1.RAW	8:27:00		Sample	OK	1	
EQ-CAL3	A6	1		4.88		97.5		47273-1.RAW	8:31:08		Sample	OK	1	
EQ-CAL4	A7	1		19.46		97.29		47274-1.RAW	8:35:16	1971.74		OK	1	
EQ-CAL5	A8	1		38.89		97.2		47275-1.RAW	8:39:25	3927.58		OK	1	
EQ-ICV1	A9	1		5.27		105.49		47276-1.RAW	8:43:33		Sample	OK	- 1	
608240-BLK1	A10	1	12.97	0.06		100.11		47277-1.RAW	8:50:02		Sample	OK	1	
608240-BLK2	A11	1	12.97	0.01				47278-1.RAW	8:54:11		Sample	OK		
608240-BLK3	A12	4	12.97	0.00				47279-1.RAW	8:58:19		Sample	OK	1	
608240-BS1	B1	4	12.97	14.56				47280-1.RAW	9:02:28	1478.83		OK		
608240-BSD1	B2	4	12.97	14.81				47281-1.RAW	9:06:36	1503.39		ok	1	
608240-BLK4	B3	1	12.97	0.24				47282-1.RAW	9:10:44		Sample	OK	1	
07586-01	B4	1	12.97	1.67				47283-1.RAW	9:14:53		Sample	OK	4	
07586-02	B5	- 3	12.97	1.26				47284-1.RAW			200.00			
307586-03		4	12.97						9:19:01		Sample	OK	4	
	B6	1		5.82				47285-1.RAW	9:23:10		Sample	OK	2.	
07586-04	B7	1	12.97	1.16		404.00		47286-1.RAW	9:27:18		Sample	OK	2	
EQ-CCV1	B8	1	12.97	5.24		104.80		47287-1.RAW	9:31:27		Sample	OK	1	
EQ-CCB1	B9		12.97	0.07		0.00		47288-1.RAW	9:35:35		Sample	OK	1	
07586-05	B10	3	12.97	15.98				47289-1.RAW	9:39:43	1621.51	The state of the s	OK	1	
07586-06	B11	1	12.97	8.64				47290-1.RAW	9:44:26		Sample	OK	- 3	
307586-07	B12	1	12.97	7.99				47291-1.RAW	9:48:34		Sample	OK	1	
507586-08	C1	- 1	12.97	1.20				47292-1.RAW	9:52:42	133.71	The state of the s	OK	1	
07586-09	C2	1	12.97	1.72				47293-1.RAW	9:56:51	186.14		OK	1	
07586-10	C3	1	12.97	0.64				47294-1.RAW	10:00:59		Sample	OK	1	
07586-11	C4	1	12.97	2.53				47295-1.RAW	10:05:08	268.12		OK	1	
07586-12	C5	1	12.97	0.59				47296-1.RAW	10:09:16		Sample	OK	1	
07586-13	C6	1	12.97	2.58				47297-1.RAW	10:13:24	272.40		OK	1	
07586-14	C7	1	12.97	0.59				47298-1.RAW	10:17:33		Sample	OK	1	
Q-CCV2	C8	1	12.97	5.13		102.66		47299-1.RAW	10:21:41	529.68		OK	1	
EQ-CCB2	C9	1	12.97	0.04		0.00		47300-1.RAW	10:25:50	16.64	Sample	OK	1	
08183-01	C10	1	12.97	4.11				47301-1.RAW	10:29:58	426.28	Sample	OK	1	
08183-02	C11	1	12.97	0.00				47302-1.RAW	10:34:07	12.14	Sample	OK	1	
08183-03	C12	1	12.97	4.50				47303-1.RAW	10:38:15	466.38	Sample	OK	9.	
S	B1	1	12.97	13.93				47304-1.RAW	10:42:23	1415.64	Sample	OK	1	WRONG LOCATIO
S	B2	10	12.97	143.21				47305-1.RAW	10:46:32	1454.51	Sample	OK	1	WRONG LOCATIO
S	B3	1	12.97	0.18				47306-1.RAW	10:50:40	30.74	Sample	OK	1	WRONG LOCATIO
08183-04	D1	1	12.97	0.00				47307-1.RAW	10:55:57	12.55	Sample	OK	1	
08183-05	D2	10	12.97	267.28				47308-1.RAW	11:00:05	2703.49	22-21-12-12-12-12-12-12-12-12-12-12-12-1	OK	1	
08183-06	D3	1	12.97	0.08				47309-1.RAW	11:04:14		Sample	OK	1	
08240-DUP1	D4	1	12.97	15.85				47310-1.RAW	11:08:22	1608.62	- 1. III & C.L.	OK	1	
EQ-CCV3	D5	1	12.97	5.27		105.43		47311-1.RAW	11:12:30	543.59		OK.	1	

SEQ-CCB3	D6	1	12.97	0.01	0.00	47312-1.RAW	11:16:39	14.48 Sample	OK	
F608240-MS1	D7	1	12.97	11.56	1138.72	47313-1,RAW	11:20:47	1176.41 Sample	OK	
F608240-MSD1		1	12.97	11.79		47314-1.RAW	11:24:56	1199.65 Sample	OK	
F608240-MS2	D9	1	12.97	2.93	21.24	47315-1.RAW	11:29:04	307.81 Sample	OK	
F608240-MSD2	D10	1	12.97	2.91		47316-1.RAW	11:33:13	306.09 Sample	OK	
F608230-BLK1	D11	100	12.97	16.72		47317-1.RAW	11:46:20	29.80 Sample	OK	
F608230-BLK2	D12	100	12.97	4.87		47318-1.RAW	11:50:28	17.87 Sample	OK	
F608230-BLK3	A1	100	12.97	6.05		47319-1.RAW	11:54:37	19.06 Sample	OK	
F608230-BS1	A2	500	12.97	4458.15		47320-1.RAW	11:58:45	910.51 Sample	OK	
F608230-BSD1	A3	500	12.97	4638.49		47321-1.RAW	12:02:54	946.81 Sample	ok	
1608143-01	A4	100	12.97	2038.83		47322-1.RAW	12:07:02	2065.31 Sample	OK	
SEQ-CCV4	A5	1	12.97	4.99	99.88	47323-1.RAW	12:11:10	515.70 Sample	OK	
SEQ-CCB4	A6	1	12.97	0.09	0.00	47324-1.RAW	12:15:19	22.11 Sample	OK	
1608143-02	A7	100	12.97	9092.66	0.00	47325-1.RAW	12:19:27	9165.87 Sample	FB	
1608143-03	A8	100	12.97	10525.13		47326-1.RAW	12:23:36	10607.83 Sample	FB	
1608143-04	A9	100	12.97	2594.52		47327-1.RAW	12:27:44	2624.68 Sample	OK	
1608143-05	A10	100	12.97	37.69						
1608143-02RE1		500	12.97	9476.39		47328-1.RAW 47329-1.RAW	12:31:53 12:41:36	50.91 Sample 1920.80 Sample	OK	
1608143-02RE1		500	12.97	10432.34		47329-1.RAW		The state of the s	OK	
1608143-03RE1		100	12.97	2646.60			12:45:44	2113.26 Sample	OK	
1608143-04RE	B2	100				47331-1.RAW	12:49:52	2677.10 Sample	OK	
		10.00	12.97	36.90		47332-1.RAW	12:54:01	50.11 Sample	OK	
1608143-02B	B3	100	12.97	24.09		47333-1.RAW	12:58:09	37.22 Sample	ok	
1608143-03B	B4	100	12.97	23.09	400 00	47334-1.RAW	13:02:18	36.21 Sample	ok	
SEQ-CCV5	B5	1	12.97	5.04	100.73	47335-1.RAW	13:06:26	519.97 Sample	OK	
SEQ-CCB5	B6	1	12.97	0.08	0.00	47336-1.RAW	13:10:35	21.44 Sample	OK	
1608143-04B	B7	100	12.97	12.97		47337-1.RAW	13:14:43	26.02 Sample	OK	
1608143-05B	B8	100	12.97	19.07		47338-1.RAW	13:18:51	32.16 Sample	OK	
F608230-DUP1	B9	100	12.97	2038.12		47339-1.RAW	13:23:00	2064.59 Sample	OK	
-608230-MS1	B10	500	12.97	6805.10	333.73	47340-1.RAW	13:27:08	1383.01 Sample	OK	
F608230-MSD1	B11	500	12.97	6822.36		47341-1.RAW	13:31:17	1386.48 Sample	OK	
608224-BLK1	B12	100	12.97	22.39		47342-1.RAW	13:37:40	35.50 Sample	OK	
F608224-BLK2	C1	100	12.97	15.75		47343-1.RAW	13:41:49	28.83 Sample	OK	
F608224-BLK3	C2	100	12.97	16.22		47344-1.RAW	13:45:57	29.29 Sample	OK	
F608224-BS1	C3	500	12.97	1762.18		47345-1.RAW	13:50:06	367.74 Sample	OK	
608224-BSD1	C4	500	12.97	1812.83		47346-1.RAW	13:54:14	377.94 Sample	OK	
SEQ-CCV6	C5	1	12.97	5.09	101.83	47347-1.RAW	13:58:22	525,48 Sample	OK	
SEQ-CCB6	C6	1	12.97	0.11	0.00	47348-1.RAW	14:02:31	23.87 Sample	OK	
1608154-01	C7	2500	12.97	30283.16		47349-1.RAW	14:06:39	1232.32 Sample	OK	
608154-07	C8	2500	12.97	3142.68		47350-1.RAW	14:10:48	139.51 Sample	OK	
608154-11	C9	2500	12.97	308.44		47351-1.RAW	14:14:56	25.39 Sample	OK	- 3
608154-02	C10	2500	12.97	21364.76		47352-1.RAW	14:21:56	873.22 Sample	OK	3
608154-03	C11	2500	12.97	27482.67		47353-1.RAW	14:26:04	1119.56 Sample	OK	
608154-04	C12	2500	12.97	21108.80		47354-1.RAW	14:30:13	862.92 Sample	ok	
608154-05	D1	2500	12.97	16568.70		47355-1.RAW	14:34:21	680.11 Sample	OK	
608154-06	D2	2500	12.97	242.32		47356-1.RAW	14:38:30	22.73 Sample	OK	- 1
608154-08	D3	1000	12.97	1852.09		47357-1.RAW	14:42:38	199.40 Sample	OK	- 4
608154-09	D4	1000	12.97	6394.41		47358-1.RAW	14:46:46	656.65 Sample	OK	
EQ-CCV7	D5	1	12.97	5.20	104.09	47359-1.RAW	14:50:55	536.87 Sample	OK	
EQ-CCB7	D6	1	12.97	0.06	0.00	47360-1.RAW	14:55:03	19.33 Sample	OK	- 0
608154-10	D7	1000	12.97	4483.25	0.00	47361-1.RAW				18
	D8	100	12.97	58.49		47362-1.RAW	14:59:12	464.26 Sample	OK	
608154-12	D9	100	12.97	39.59			15:03:20	71.85 Sample	OK	3
608154-12	D10	100	12.97			47363-1.RAW	15:07:28	52.82 Sample	OK	13
	Control of the Contro	100	12.97	41.21 16.37		47364-1.RAW 47365-1.RAW	15:11:37 15:15:45	54.46 Sample 29.44 Sample	OK OK	1
608154-06RE1							76.75.76			

1608154-01B	D12	100	12.97	19.71		47366-1.RAW	15:19:54	32.81 Sample	OK	1
1608154-02B	A1	100	12.97	17.02		47367-1.RAW	15:24:02	30.10 Sample	OK.	1
1608154-03B	A2	100	12.97	22.45		47368-1.RAW	15:28:10	35.57 Sample	OK	1
1608154-04B	A3	100	12.97	11.19		47369-1.RAW	15:32:19	24.23 Sample	OK	1
1608154-05B	A4	100	12.97	14.68		47370-1.RAW	15:36:28	27.75 Sample	OK	1
SEQ-CCV8	A5	1	12.97	5.07	101.40	47371-1.RAW	15:40:37	523.35 Sample	OK	1
SEQ-CCB8	A6	1	12.97	0.04	0.00	47372-1.RAW	15:44:45	17.30 Sample	ok	4
1608154-06B	A7	100	12.97	20.11		47373-1.RAW	15:48:54	33.21 Sample	OK	1
1608154-07B	A8	100	12.97	44.43		47374-1.RAW	15:53:02	57.69 Sample	OK	1
1608154-08B	A9	100	12.97	26.44		47375-1.RAW	15:57:11	39,58 Sample	OK	1
1608154-09B	A10	100	12.97	6.71		47376-1.RAW	16:01:19	19.73 Sample	OK	1
1608154-10B	A11	100	12.97	22.01		47377-1.RAW	16:05:28	35.13 Sample	OK	1
1608154-11B	A12	100	12.97	10.78		47378-1.RAW	16:09:36	23.82 Sample	OK	1
1608154-12B	B1	100	12.97	13.27		47379-1.RAW	16:13:44	26.32 Sample	OK	4
1608154-13B	B2	100	12.97	13.85		47380-1.RAW	16:17:53	26.91 Sample	OK	1
1608154-04C	B3	5000	12.97	75740.50		47381-1.RAW	16:22:01	1537.82 Sample	OK	1
1608154-09C	B4	500	12.97	3325.87		47382-1.RAW	16:26:10	682.55 Sample	OK	1
SEQ-CCV9	B5	1	12.97	4.99	99.85	47383-1.RAW	16:30:18	515.53 Sample	OK	1
SEQ-CCB9	B6	1	12.97	0.04	0.00	47384-1.RAW	16:34:26	16.53 Sample	OK	1
1608154-13C	B7	500	12.97	3079.37		47385-1.RAW	16:38:35	632.92 Sample	OK	1
F608224-DUP1	B8	2500	12.97	22831.52		47386-1.RAW	16:42:43	932.28 Sample	OK	1
F608224-MS1	B9	2500	12.97	71775.30	314.36	47387-1.RAW	16:46:52	2903.00 Sample	OK	4
608224-MSD1	B10	2500	12.97	70261,52		47388-1.RAW	16:51:00	2842.05 Sample	OK.	1
F608224-MS2	B11	2500	12.97	65540.41	93.28	47389-1.RAW	16:55:09	2651.96 Sample	OK	4
608224-MSD2	B12	2500	12.97	66482.58		47390-1.RAW	16:59:17	2689.89 Sample	OK	4
1608154-04RE10	C3	2500	12.97	85163.37		47391-1.RAW	17:03:25	3442.07 Sample	OK	. 1
1608154-09RE10	C4	200	12.97	4222.59		47392-1.RAW	17:07:34	2138.25 Sample	ok	1
1608154-13RE10	C5	200	12.97	3995.51		47393-1.RAW	17:11:42	2023.96 Sample	OK	1
SEQ-CCVA	C1	- 1	12.97	5.25		47394-1.RAW	17:15:51	541.28 Sample	OK	1
SEQ-CCBA	C2	1	12.97	0.22		47395-1.RAW	17:19:59	35.59 Sample	OK	

Failing Data Report - 6H10008

Sample ID Analysis Result MRL

Dup Source True Result

Value Result

Units % Rec.

Rec. UCL

Rec.

LCL

RPD

RPD Limit

Over Cal

Failure

Qualifier

Analyst Reviewed By

Peer Reviewed By

8-10-16 Date

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Failing Data Report - 6H10009

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
1608143-02	Hg_FSTM_TRAP_A	363.33	2.00			ng/Trap						FAIL-OVER	PASS	E
1608143-03	Hg_FSTM_TRAP_A	420.62	2.00			ng/Trap						FAIL-OVER	PASS	I

Analyst Reviewed By Date

Peer Reviewed By

8-10-16 Date

6H10008

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/9/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6H10008-IBL1	QC	1			
6H10008-IBL2	QC	2			
6H10008-IBL3	QC	3			
6H10008-CAL1	QC	4	1603274		
6H10008-CAL2	QC	5	1603275		
6H10008-CAL3	QC	6	1603276		
6H10008-CAL4	QC	7	1603277		
5H10008-CAL5	QC	8	1603278		
6H10008-ICV1	QC	9	1603625		
F608240-BLK1	QC	10			
F608240-BLK2	QC	- 11			
F608240-BLK3	QC	12			
7608240-BS1	QC	13	1		
F608240-BSD1	QC	14			
608240-BLK4	QC	15			
607586-01	Hg-CVAFS-W-1631	16			Scan all data - Level IV
607586-02	Hg-CVAFS-W-1631	17			Scan all data - Level IV
607586-03	Hg-CVAFS-W-1631	18			Scan all data - Level IV
607586-04	Hg-CVAFS-W-1631	19			Scan all data - Level IV
H10008-CCV1	QC	20	1603625		2000
H10008-CCB1	QC	21			
607586-05	Hg-CVAFS-W-1631	22	-		Scan all data - Level IV
607586-06	Hg-CVAFS-W-1631	23			Scan all data - Level IV
607586-07	Hg-CVAFS-W-1631	24			Scan all data - Level IV
607586-08	Hg-CVAFS-W-1631	25			Scan all data - Level IV
607586-09	Hg-CVAFS-W-1631	26			Scan all data - Level IV
607586-10	Hg-CVAFS-W-1631	27			Scan all data - Level IV
607586-11	Hg-CVAFS-W-1631	28			Scan all data - Level IV
607586-12	Hg-CVAFS-W-1631	29			Scan all data - Level IV
607586-13	Hg-CVAFS-W-1631	30			Scan all data - Level IV
607586-14	Hg-CVAFS-W-1631	31			Scan all data - Level IV
H10008-CCV2	QC	32	1603625		un duta - Lovoj IV
H10008-CCB2	QC	33			
608183-01	Hg-CVAFS-W-1631	34			
608183-02	Hg-CVAFS-W-1631	-35			

Due Date: 8/10/2016

6H10008

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/9/2016

canoration ID.	CHASSIGNED		1		Analyzed: 8/9/2016
Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1608183-03	Hg-CVAFS-W-1631	36			
1608183-04	Hg-CVAFS-W-1631	37			
1608183-05	Hg-CVAFS-W-1631	38			
1608183-06	Hg-CVAFS-W-1631	39			
F608240-DUP1	QC	40			
6H10008-CCV3	QC	41	1603625		
6H10008-CCB3	QC	42			
F608240-MS1	QC	43			
F608240-MSD1	QC	44			
F608240-MS2	QC	45	11		
F608240-MSD2	QC	46			
6H10008-CCV4	QC	47	1603625		
6H10008-CCB4	QC	48			
6H10008-CCV5	QC	49	1603625		
6H10008-CCB5	QC	50			
6H10008-CCV6	QC	51	1603625		
6H10008-CCB6	QC	52			
6H10008-CCV7	QC	53	1603625		
6H10008-CCB7	QC	54			
6H10008-CCV8	QC	55	1603625		
6H10008-CCB8	QC	56			
6H10008-CCV9	QC	57	1603625		
6H10008-CCB9	QC	58			
6H10008-CCVA	QC	59	1603625	-	
6H10008-CCBA	QC	60		-	

Samples Loaded By

Date

10rded 8/09/16

Data Processed By

Data

00ded 8/09/16

6H10009

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/9/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6H10009-IBL1	QC	1			
6H10009-IBL2	QC	2	-		
6H10009-IBL3	QC	3	1 1		
6H10009-CAL1	QC	4	1603274		
6H10009-CAL2	QC	5	1603275		
6H10009-CAL3	QC	6	1603276		
6H10009-CAL4	QC	7	1603277		
6H10009-CAL5	QC	8	1603278		
6H10009-ICV1	QC	9	1603625		
6H10009-CCV1	QC	10	1603625		
6H10009-CCB1	QC	11			
6H10009-CCV2	QC	12	1603625		
6H10009-CCB2	QC	13			
6H10009-CCV3	QC	14	1603625		
6H10009-CCB3	QC	15			
F608230-BLK1	QC	16			
F608230-BLK2	QC	17			
F608230-BLK3	QC	18			
F608230-BS1	QC	19			
F608230-BSD1	QC	20			
1608143-01	Hg_FSTM_TRAP_A	21			
6H10009-CCV4	QC	22	1603625		
6H10009-CCB4	QC	23			
1608143-02	Hg_FSTM_TRAP_A	24			
1608143-03	Hg_FSTM_TRAP_A	25			
1608143-04	Hg_FSTM_TRAP_A	26			
1608143-05	Hg_FSTM_TRAP_A	27			
1608143-02REI	Hg_FSTM_TRAP_A	28			Added 8/10/2016 by BC
1608143-03RE1	Hg_FSTM_TRAP_A	29			Added 8/10/2016 by BC
1608143-04RE1	Hg_FSTM_TRAP_A	30			Added 8/10/2016 by BC
6H10009-CCV5	QC	31	1603625		TENERAL IN ANIA OF MC
6H10009-CCB5	QC	32			
F608230-DUP1	QC	33			
F608230-MS1	QC	34			
F608230-MSD1	QC	35			

Due Date: 8/11/2016

6H10009

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/9/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Analyzed: 8/9/2010
F608224-BLK1	QC	36			Comments
F608224-BLK2	QC	37			
F608224-BLK3	QC	38			
F608224-BS1	QC	39			
F608224-BSD1	QC	40			
6H10009-CCV6	QC	41	1603625		
6H10009-CCB6	QC	42			
1608154-01	Hg_FSTM_TRAP_A	43			
1608154-07	Hg_FSTM_TRAP_A	44			
1608154-11	Hg_FSTM_TRAP_A	45			
1608154-02	Hg_FSTM_TRAP_A	46			
1608154-03	Hg_FSTM_TRAP_A	47			
1608154-04	Hg_FSTM_TRAP_A	48			
1608154-05	Hg_FSTM_TRAP_A	49			
1608154-06	Hg_FSTM_TRAP_A	50			
1608154-08	Hg_FSTM_TRAP_A	51			
1608154-09	Hg_FSTM_TRAP_A	52			
6H10009-CCV7	QC	53	1603625		
6Н10009-ССВ7	QC	54			
1608154-10	Hg_FSTM_TRAP_A	55			
1608154-11RE1	Hg_FSTM_TRAP_A	56			Added 8/10/2016 by BC
1608154-12	Hg_FSTM_TRAP_A	57			Added 0/10/2010 by BC
1608154-13	Hg_FSTM_TRAP_A	58			
1608154-06RE1	Hg_FSTM_TRAP_A	59			Added 8/10/2016 by BC
6H10009-CCV8	QC	60	1603625		Added 5/10/2010 by BC
6H10009-CCB8	QC	61			
6H10009-CCV9	QC	62	1603625		
6H10009-CCB9	QC	63			
F608224-DUP1	QC	64			
F608224-MS1	QC	65			
F608224-MSD1	QC	66			
F608224-MS2	QC	67	-		
F608224-MSD2	QC	68			
5H10009-CCVA	QC	69	1603625		
6Н10009-ССВА	QC	70			

Due Date: 8/11/2016

6H10009

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/9/2016

Lab Number

Analysis

Order

STD ID ISTD ID

Comments

Samples Loaded By

Date

Data Processed By

Date

londer 8/09/11

F608240

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608240-BLK1	Blank	100	101					
F608240-BLK2	Blank	100	101					
F608240-BLK3	Blank	100	101					
F608240-BLK4	Blank	100	105					Added 8/10/2016 by BC
F608240-BS1	LCS	50	50.5	1505246	100			
F608240-BSD1	LCS Dup	50	50.5	1505246	100			
F608240-DUP1	Duplicate [1607586-05]	100	101					
F608240-MS1	Matrix Spike [1607586-11]	49.50495	50	1603190	50			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F608240-MS2	Matrix Spike [1607586-12]	49,50495	50	1603212	125			[Spk] 100mL->101mL; 101mL,->101mL; Spiked 50mL
F608240-MSD1	Matrix Spike Dup [1607586-11]	49.50495	50	1603190	50	-		[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F608240-MSD2	Matrix Spike Dup [1607586-12]	49.50495	50	1603212	125			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL

Standard ID(s):	Description:	Expiration:	Reagent ID(s):	Description:	Expiration:
1505246	Nist 1641D 200X	20-Aug-16 00:00	1602941	25% Hydroxylamine-HCl working solution	03-Dec-16 00:00
1603190	THg 10ng/mL Calibration Standard	15-Sep-16 00:00	1603825	0.2 N BRCL JULY 2016	11-Jan-17 00:00
1603212	THg 1ng/mL Calibration Standard	16-Sep-16 00:00	1603826	THg Dilute 1% BrCl	12-Dec-16 00:00
			1603827	THg Washstation (0.5% BrCl)	03-Dec-16 00:00
			1604289	3% SnCl2 THg reductant	22-Jan-17 00:00

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e Date: 8/10/2016

Prepared: 8/9/2016

F608240

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1523 OV-02_071816_SW_10	100	101	-	9	20	Scan all data - Level IV	
1523 OV-02_071816_SW_10 Dissolved	100	101	131	-	1 -	Scan all data - Level IV	
1524 WQ1b-c_071816_SW_10	100	101	8	13.	3.	Scan all data - Level IV	
1524 WQ1b-c_071816_SW_10 Dissolved	100	101	17		4	Scan all data - Level IV	
1525 WQ2-c_071816_SW_10	100	101	7-1	-	89	Scan all data - Level IV	
1525 WQ2-c_071816_SW_10 Dissolved	100	101	1.5	11-2-2	-1	Scan all data - Level IV	
1526 WQ3-L_071816_SW_10	100	101	37.7	Tre A	-	Scan all data - Level IV	
1526 WQ3-L_071816_SW_10 Dissolved	100	101	(G. 1		1,0	Scan all data - Level IV	
1527 ES-15_071816_SW_10	100	101	-	100		Scan all data - Level IV	AL .
1527 ES-15_071816_SW_10 Dissolved	100	101	7.4	1.0		Scan all data - Level IV	
1528 WQ-ECH_071816_SW_10	100	101	QC	1.0)+i	MS/MSD Scan all data - Level IV	
1528 WQ-ECH_071816_SW_10 Dissolved	100	101	QC	8	-	MS/MSD Scan all data - Level IV	
1529 WQ-ECH_071816_SW_10_DUP	100	101	1.			Scan all data - Level IV	
1529 WQ-ECH_071816_SW_10_DUP Dissolved	100	101		1.41	-	Scan all data - Level IV	
Lagoons	100	101	-	1.61	÷		
Lagoons Field Blank	100	101	14.7	- E-1	+		
Clarifier	100	101	1.0	37	147		
Clarifier Field Blank	100	101	*	11	7		
A149	100	105					
	1523 OV-02_071816_SW_10 1523 OV-02_071816_SW_10 Dissolved 1524 WQ1b-c_071816_SW_10 1524 WQ1b-c_071816_SW_10 Dissolved 1525 WQ2-c_071816_SW_10 1525 WQ2-c_071816_SW_10 Dissolved 1526 WQ3-L_071816_SW_10 Dissolved 1526 WQ3-L_071816_SW_10 Dissolved 1527 ES-15_071816_SW_10 Dissolved 1528 WQ-ECH_071816_SW_10 Dissolved 1528 WQ-ECH_071816_SW_10 Dissolved 1529 WQ-ECH_071816_SW_10 Dissolved 1529 WQ-ECH_071816_SW_10 Dissolved Lagoons Lagoons Lagoons Field Blank Clarifier Clarifier Field Blank	Sample ID (mL) 1523 OV-02_071816_SW_10 100 1523 OV-02_071816_SW_10 Dissolved 100 1524 WQ1b-c_071816_SW_10 100 1524 WQ1b-c_071816_SW_10 Dissolved 100 1525 WQ2-c_071816_SW_10 100 1525 WQ2-c_071816_SW_10 Dissolved 100 1526 WQ3-L_071816_SW_10 Dissolved 100 1527 ES-15_071816_SW_10 Dissolved 100 1527 ES-15_071816_SW_10 Dissolved 100 1528 WQ-ECH_071816_SW_10 Dissolved 100 1529 WQ-ECH_071816_SW_10 Dissolved 100 1529 WQ-ECH_071816_SW_10_DUP 100 1529 WQ-ECH_071816_SW_10_DUP Dissolved 100 Lagoons 100 Lagoons Field Blank 100 Clarifier 100 Clarifier Field Blank 100	Sample ID (mL) (mL) 1523 OV-02_071816_SW_10 100 101 1523 OV-02_071816_SW_10 Dissolved 100 101 1524 WQ1b-c_071816_SW_10 Dissolved 100 101 1524 WQ1b-c_071816_SW_10 Dissolved 100 101 1525 WQ2-c_071816_SW_10 Dissolved 100 101 1525 WQ2-c_071816_SW_10 Dissolved 100 101 1526 WQ3-L_071816_SW_10 Dissolved 100 101 1526 WQ3-L_071816_SW_10 Dissolved 100 101 1527 ES-15_071816_SW_10 Dissolved 100 101 1528 WQ-ECH_071816_SW_10 Dissolved 100 101 1528 WQ-ECH_071816_SW_10 Dissolved 100 101 1529 WQ-ECH_071816_SW_10_DUP 100 101 1529 WQ-ECH_071816_SW_10_DUP Dissolved 100 101 Lagoons 100 101 Lagoons Field Blank 100 101 Clarifier 100 101 Clarifier Field Blank 100 101	Sample ID (mL) (mL) Sample 1523 OV-02_071816_SW_10 100 101 - 1523 OV-02_071816_SW_10 Dissolved 100 101 - 1524 WQ1b-c_071816_SW_10 100 101 - 1524 WQ1b-c_071816_SW_10 Dissolved 100 101 - 1525 WQ2-c_071816_SW_10 Dissolved 100 101 - 1526 WQ3-L_071816_SW_10 Dissolved 100 101 - 1526 WQ3-L_071816_SW_10 Dissolved 100 101 - 1527 ES-15_071816_SW_10 Dissolved 100 101 - 1528 WQ-ECH_071816_SW_10 Dissolved 100 101 - 1528 WQ-ECH_071816_SW_10 Dissolved 100 101 - 1529 WQ-ECH_071816_SW_10_DUP 100 101 - 1529 WQ-ECH_071816_SW_10_DUP Dissolved 100 101 - Lagoons 100 101 - Lagoons Field Blank 100 101 - Clarifier Field Blank 100 101 -	Sample ID (mL) (mL) Sample (mL) Specs. 1523 OV-02_071816_SW_10 100 101 - - 1523 OV-02_071816_SW_10 Dissolved 100 101 - - 1524 WQ1b-c_071816_SW_10 Dissolved 100 101 - - 1525 WQ2-c_071816_SW_10 Dissolved 100 101 - - 1525 WQ2-c_071816_SW_10 Dissolved 100 101 - - 1526 WQ3-L_071816_SW_10 Dissolved 100 101 - - 1526 WQ3-L_071816_SW_10 Dissolved 100 101 - - 1527 ES-15_071816_SW_10 Dissolved 100 101 - - 1528 WQ-ECH_071816_SW_10 Dissolved 100 101 - - 1528 WQ-ECH_071816_SW_10 Dissolved 100 101 - - 1529 WQ-ECH_071816_SW_10 DUP Dissolved 100 101 - - 1529 WQ-ECH_071816_SW_10_DUP Dissolved 100 101 - - Lagoons 100 101 -	Sample ID (mL) (mL) Sample Specs. Data 1523 OV-02_071816_SW_10 100 101 - - - 1523 OV-02_071816_SW_10 Dissolved 100 101 - - - 1524 WQ1b-c_071816_SW_10 Dissolved 100 101 - - - 1524 WQ1b-c_071816_SW_10 Dissolved 100 101 - - - 1525 WQ2-c_071816_SW_10 Dissolved 100 101 - - - 1526 WQ3-L_071816_SW_10 Dissolved 100 101 - - - 1526 WQ3-L_071816_SW_10 Dissolved 100 101 - - - 1527 ES-15_071816_SW_10 Dissolved 100 101 - - - 1528 WQ-ECH_071816_SW_10 Dissolved 100 101 QC - - 1529 WQ-ECH_071816_SW_10 Dissolved 100 101 - - - 1529 WQ-ECH_071816_SW_10 Dissolved 100 101 - - - 1529 WQ-ECH_071816_SW_10	Sample ID

2 le Date: 8/10/2016

Prepared: 8/9/2016

F608240

Eurofins Frontier Global Sciences, Inc.

Matrix: Water Prepared using: AFS - EPA 1631E BrCl Oxidation Prepared: 8/9/2016

1608183-06 A149 Blank 100 101 - - -

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e Date: 8/10/2016

F608230

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Lab Number	Sample ID and Source Sample	Initial (Trap)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608230-BLK1	Blank	1	40					
F608230-BLK2	Blank	1	40					
F608230-BLK3	Blank	1	40					
F608230-BS1	LCS	1	40	1603188	200			
F608230-BSD1	LCS Dup	1	40	1603188	200			
F608230-DUP1	Duplicate [1608143-01]	- i	40					
F608230-MS1	Matrix Spike [1608143-01]	0.0025	0.1	1603190	50			[Spk] 1Trap->40mL; 20mL->20mL; Spiked 0.1mL
F608230-MSD1	Matrix Spike Dup [1608143-01]	0.0025	0.1	1603190	50			[Spk] 1Trap->40mL; 20mL->20mL; Spiked 0.1mL

Standard ID(s):	Description:	Expiration:	Reagent ID(s):	Description:	Expiration:
1603188	THg 1,000ng/mL Primary Spiking Standard	15-Dec-16 00:00	1602941	25% Hydroxylamine-HCl working solution	03-Dec-16 00:00
1603190	THg 10ng/mL Calibration Standard	15-Sep-16 00:00	1603826	THg Dilute 1% BrCl	12-Dec-16 00:00
			1603827	THg Washstation (0.5% BrCl)	03-Dec-16 00:00
			1604289	3% SnCl2 THg reductant	22-Jan-17 00:00
			1604327	70/30 Digestion Acid	31-Jan-17 00:00
			1604328	5% BrCl	11-Jan-17 00:00

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le Date: 8/11/2016

Prepared: 8/8/2016

F608230

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/8/2016

Lab Number	Sample ID	Initial (Trap)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608143-01	NE-1	1	40	(8)		(80		
1608143-02	CN-2	1	40		-	(Y) -		
1608143-02RE1	CN-2	i	40	-	1.0	.8	Added 8/10/2016 by BC	Added 8/10/2016 by BC
1608143-03	CN-D-3	1	40	13		19	1	
1608143-03RE1	CN-D-3	1	40			3	Added 8/10/2016 by BC	Added 8/10/2016 by BC
1608143-04	SW-4	1	40		7.5		et in p	
1608143-04RE1	SW-4	I	40		14	-	Added 8/10/2016 by BC	Added 8/10/2016 by BC
1608143-05	NW-0-5	1	40	-	-			



Page 64 of 463 e Date: 8/11/2016

F608224

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

		Initial	Final	1 1	μΙ		μl	
Lab Number	Sample ID and Source Sample	(Trap)	(mL)	Spikel ID	Spikel	Spike2 ID	Spike2	Extraction Comments
F608224-BLK1	Blank	1	100			(1.1.7)		
F608224-BLK2	Blank	1	100					L ₂
F608224-BLK3	Blank	Í	100					
F608224-BS1	LCS	1	100	1603188	200			
F608224-BSD1	LCS Dup	i	100	1603188	200			
F608224-DUP1	Duplicate [1608154-02]	1	100					
F608224-MS1	Matrix Spike [1608154-02]	0.0002	0.02	1603190	100			[Spk] 1Trap->100mL; 20mL->20mL; Spiked 0.02mL
F608224-MS2	Matrix Spike [1608154-05]	0.0002	0.02	1603190	100			[Spk] 1Trap->100mL; 20mL->20mL; Spiked 0.02mL
F608224-MSD1	Matrix Spike Dup [1608154-02]	0.0002	0.02	1603190	100			[Spk] 1Trap->100mL; 20mL->20mL; Spiked 0.02mL
F608224-MSD2	Matrix Spike Dup [1608154-05]	0.0002	0.02	1603190	100			[Spk] [Trap->100mL: 20mL->20mL: Spiked 0.02mL

Standard ID(s):	Description:	Expiration:	Reagent ID(s):	Description:	Expiration:
1603188	THg 1,000ng/mL Primary Spiking Standard	15-Dec-16 00:00	1602941	25% Hydroxylamine-HCl working solution	03-Dec-16 00:00
1603190 THg 10ng	THg 10ng/mL Calibration Standard	15-Sep-16 00:00	1603826	THg Dilute 1% BrCl	12-Dec-16 00:00
			1603827	THg Washstation (0.5% BrCl)	03-Dec-16 00:00
			1604289	3% SnCl2 THg reductant	22-Jan-17 00:00
			1604327	70/30 Digestion Acid	31-Jan-17 00:00
			1604418	5% BrC1	11-Jan-17 00:00

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Date: 8/11/2016

Prepared: 8/8/2016

F608224

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/8/2016

Lab Number	Sample ID	Initial (Trap)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608154-01	SS002838-01 EFGS05518 Digestion Line 2 Heater 1	1	100	3	17.			
1608154-02	SS002838-02 EFGS07551 Digestion Line 2 Heater 1	1	100	1-7	0.5	1911		
1608154-03	SS002838-03 EFGS07502 Digestion Line 2 Heater 1	1	100	16-6	16	14		
1608154-04	SS002838-04 EFGS07470 Digestion Line 2 Heater I	1	100		9-1	-		
1608154-04REI	SS002838-04 EFGS07470 Digestion Line 2 Heater 1	1	100	F-,C, -	A-9.	4	Added 8/10/2016 by BC	Added 8/10/2016 by BC
1608154-05	SS002838-05 EFGS05080 Digestion Line 2 Heater 1	Î.	100	-	-	-	BatchQC	Added for BatchQC in: F608224
1608154-06	SS002838-06 EFGS07459 Digestion Line 2 Heater 1	1	100	13	2			
1608154-06RE1	SS002838-06 EFGS07459 Digestion Line 2 Heater 1	1	100	1,90		-9-	Added 8/10/2016 by BC	Added 8/10/2016 by BC
1608154-07	SS002838-07 EFGS05044 Evaporation Vacuum Pump Line 3	1	100		16.			
1608154-08	SS002838-08 EFGS07590 Evaporation Vacuum Pump Line 3	1	100		i e	4		
1608154-09	SS002838-09 EFGS03378 Evaporation Vacuum Pump Line 3	1	100	7.		2		
1608154-09RE1	SS002838-09 EFGS03378 Evaporation Vacuum Pump Line 3	1	100	1 +/ 1	Li-	4	Added 8/10/2016 by BC	Added 8/10/2016 by BC
1608154-10	SS002838-10 EFGS07471 Evaporation Vacuum Pump Line 3	1	100	130		4		
1608154-11	SS002838-11 EFGS05102 Calciner 10] Oiler Fired	1	100	7	0	2		
1608154-11RE1	SS002838-11 EFGS05102 Calciner 10] Oiler Fired	1.	100		~	1 4	Added 8/10/2016 by BC	Added 8/10/2016 by BC
1608154-12	SS002838-12 EFGS05075 Calciner 10 - Oiler Fired	1	100	1.5	-	*		
608154-13	SS002838-13 EFGS05063 Calciner 10 - Oiler Fired	1	100	-	-	3		
ည် (၁) (၁) (၁) (၁) (၁) (၁) (၁) (၁) (၁) (၁)	SS002838-13 EFGS05063 Calciner 10 - Oiler Fired	1	100	-	-	141	Added 8/10/2016 by BC	Added 8/10/2016 by BC

F608224

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/8/2016

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Date: 8/11/2016

F608240

Eurofins Frontier Global Sciences, Inc.

8/9/16

Prepared: 8/8/2016

Matrix: Water Prepared using: AFS - EPA 1631E BrCl Oxidation

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608240-BLK1	Blank	100	101					1×
F608240-BLK2	Blank	100	101					1×
F608240-BLK3	Blank	100	101					14
F608240-BS1	LCS	100	101	1505246	100			1×
F608240-BSD1	LCS Dup	100	101	1505246	100			14
F608240-DUP1	Duplicate 16 07586-05	100	101					1×
F608240-MS1	Matrix Spike [1607586-11]	100	101	1603190	50			1×
F608240-MS2	Matrix Spike [1607586-12]	100	101	1603212	125			1×
F608240-MSD1	Matrix Spike Dup [1607586-11]	100	101	1603/90	50			1×
F608240-MSD2	Matrix Spike Dup [1607586-12]	100	101	1603212	125			17

Standard ID(s):

Description:

Expiration:

BIX4 5%

JX

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Date: 8/10/2016

F608240

Eurofins Frontier Global Sciences, Inc.

Prepared: 8/8

BC 8-4-16 2600-3

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments	
607586-01	1523 OV-02_071816_SW_10	100	101			9	Scan all data - Level IV		
607586-02	1523 OV-02_071816_SW_10 Dissolved	100	101	1-	A	4.4	Scan all data - Level IV		
607586-03	1524 WQ1b-c_071816_SW_10	100	101	1	- 1	-	Scan all data - Level IV		
607586-04	1524 WQ1b-c_071816_SW_10 Dissolved	100	101	11.4	-	14.1	Scan all data - Level IV		
607586-05	1525 WQ2-c_071816_SW_10	100	101	13	1,241	res	Scan all data - Level IV		
607586-06	1525 WQ2-c_071816_SW_10 Dissolved	100	101	12	4	-	Scan all data - Level IV		
607586-07	1526 WQ3-L_071816_SW_10	100	101		14年	36	Scan all data - Level IV		
607586-08	1526 WQ3-L_071816_SW_10 Dissolved	100	101		75.1	8	Scan all data - Level IV		
607586-09	1527 ES-15_071816_SW_10	100	101	V 14°	19		Scan all data - Level IV		
607586-10	1527 ES-15_071816_SW_10 Dissolved	100	101		-	*	Scan all data - Level IV		
607586-11	1528 WQ-ECH_071816_SW_10	100	101	QC	-	*	MS/MSD Scan all data - Level IV		
607586-12	1528 WQ-ECH_071816_SW_10 Dissolved	100	101	QC	-		MS/MSD Scan all data - Level IV	1	
607586-13	1529 WQ-ECH_071816_SW_10_DUP	100	101	100	7-	7-	Scan all data - Level IV		
607586-14	1529 WQ-ECH_071816_SW_10_DUP Dissolved	100	101	-	-	9.1	Scan all data - Level IV		
608183-01	Lagoons	100	101		9		1×		5
608183-02	Lagoons Field Blank	100	101	3.5	80	14	1×		
183-03	Clarifier	100	101	171	19.7	,	1×		
183-04 183-05 00 463	Clarifier Field Blank	100	101	12-30	78.7	-	14		\dashv
0 0 183-05	A149	100	101	-			10人		=

F608240

Eurofins Frontier Global Sciences, Inc.

8/9/16 Prepared: 8/8/2016 Prepared using: AFS - EPA 1631E BrCl Oxidation

1608183-06 A149 Blank 1X 5533

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Matrix: Water

e Date: 8/10/2016

Total Mercury Preservation Logbook

Initial preservation Technician:	n and/or verification Date: 7/2	Time Completed: 17:45	Work Orders: 1607586
Additional preserv	ation and/or verifi	cation (as needed)	BrCI LIMS ID: 1603196
Technician:	Date:	Time Completed:	Pipette SN: MU32229
Technician:	Date:	Time Completed:	Cal. Date: 7/8/6

	Complete Vol			Addition	nal preservation (as	needed)
Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Oxidized? Y/N	Reagent added	Oxidized:
607586-01A	300	3.00	V	1/14	(mL)	Y/N
607586-02A	300	3.00	7			
1607586-01A	3.00	3.00	Ü			
607586-04A	300	3.00	Y			
607586 - OSA	300	3.00	Y			
607586 - 06A	300	3.00	Y			
607586 -07A	300	3.00	Y			
307586 -081A	300	3.00	Y			
107586-09A	300	3.00	· ·			
607586-1UA	300	3.00	ĭ			
607586-11A	300	3.00	Y			
607586 -12A	300	3.00	V			
607586-13A	300	3.00	4			
607586-14A	306	3.00	V			
507586 -15A	300	3.00	Y			
50756-16A	300	3.00	4			
07586-17A	300	3,00	Y			
07576-18A	300	3.00	9			
07536-19A	300	3.00	Ý			
50754 - 26A	300	3.00	4			
UTS\$6-21A	300	7.00	4			
						>
		ym 71)	1//			
		7/2	1/16			

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

omments:			

Total Mercury Preservation Logbook

Technician: <u>CSR</u>	Date: 8/5/16	Time Completed:	1550	Work Orders: 1608183				
Additional preservation			•	BrCl III	MS ID:			
Technician:	_ Date:	Time Completed:						
Technician:	Date: Time Completed:			Pipette SN: Cal. Date:				
Sample ID	Sample ID Sample Volume Reagent added		Oxidized?	Additional preservation (as needed)				
	(mL)	(mL)	Y/N	Y/N	Reagent added (mL)	Oxidized Y / N		
608 183-01 A	300	3.00	W					
608183-02 A	300	3.00	1 iy					
608183-03A	300	3.00	W					
608 183-04 A	300	3.00	/W					
608183-05A	300	15,00	WI					
608183-06A	300	3,00	/ W					
						/		
					/			
	0							
	(5x	7		/				
				/				
	(/ 10	1						
	815	16	/	-				
	, ,							
			- 11					
idation with BrCl is conf								

F608230

BC 8-9-16 2600-3

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/8/2016

Lab Number	Sample ID and Source Sample	Initial (Trap)	Final (mL)	Spike1 ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608230-BLK1	Blank	1	40					100>
F608230-BLK2	Blank	1	40					100X
F608230-BLK3	Blank	1	40					100×
F608230-BS1	LCS	1	40	1603188	200			5004
F608230-BSD1	LCS Dup	1	40	1603188	200			500×
F608230-DUP1	Duplicate 160914 3-01	1	40					SO 100X
F608230-MS1	Matrix Spike 1608143-01	1	40	1603190		50		500×
F608230-MSD1	Matrix Spike Dup 608143-01	1	40	1603190		50		500 X

Standard ID(s):

1603188

Description:

THg 1,000ng/mL Primary Spiking Standard

Expiration:

15-Dec-16 00:00

Reagent ID(s):

1604327

1604328

Description:

70/30 Digestion Acid

5% BrC1

Expiration:

31-Jan-17 00:00

11-Jan-17 00:00

1603826
1603827
1602941

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e Date: 8/11/2016

F608230

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/8/2016

Lab Number	Sample ID	Initial (Trap)	Final (mL)	Sample Comments	Analysis Comments
1608143-01	NE-1	1	40	No 1000 X	100×
1608143-02	CN-2	1	40	No 100x 7500x	100×
1608143-03	CN-D-3	1	40	No 100× > 500 x	100×
1608143-04	SW-4	Ĩ	40	No 100x >100x	00×
1608143-05	NW-0-5	1	40	No 1007	1007

	rap.Digestions	
Name: CC	Date: 8/8/11	Batch ID: _F608Z3C
work Order(s): 1000195	Analysis I	Total Hg Other
Sample Matrix: Y FSTM KCI Pho Plug	Other	- Total rig - Other -
Prep: V 70/30 Digestion, 2 hr. @ ~55°C (EFAFS-T-AFS	S-SOP2985)	
start time: 1435 , start temp (°C): 55	D(raw) 54 /	(W/ CE)
end time: 1437, end temp (°C): 61.0	(raw) (A)	(W/ CE) Times 7 7 7
5% BrCl Oxidation (EFGS-031) start time:	(allow sa	mples to eit found la view No
Other	(allow sa	imples to sit for at least 4 hr before analysis)
Sample ID Number	Digest vol. (mL	
F668230-BLKI	40	
F608230-BLKZ	46	Spike ID: 1603188
F608230-BLK3	ND	Spike Amount (µL): 200
F668230-BS1	40	Spike Witness: AMB 8/8/16
F608230-BSDI	40	Spike Withess: 74/100 8/0/10
1608143-014 NNQ4170	40	116 5
1608143-01B	40	BrCI ID: 1604328
1608143-02A NNQ4155	40	70/30: 160,4327
1608143-023	40	Other: _ NA
608143-034 NNQ4173	40	
1608143-03B	40	Thermometer: 131978
1668143-04A WRQ4166	un	
1608193-093	40 40	Dispensers: 02K27494 1
1608143-05A NNA4167	40	8/8/16 04N73497
1608143-05B	40	Other_ NA
		Pipette ID: MU11607
		Cal. Date: 8/3/16
		Sur Bate: <u>87 371 8</u>
		in the second second
		Vials and Jars lot# 00064557
		Loader Mass Verification:
1/2/		Trap Material Lot#: 1603214
		y
0/9/	:=1	
		Comments:
		Comments.
9		
/		

F608224

Eurofins Frontier Global Sciences, Inc.

BC 8-9-16 2600-3

5.50

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/8/2016

Lab Number	Sample ID and Source Sample	Initial (Trap)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608224-BLK1	Blank	1	100					160×
F608224-BLK2	Blank	1	100					100×
F608224-BLK3	Blank	1	100		7			1007
F608224-BS1	LCS	1	100	1603188	200			500×
F608224-BSD1	LCS Dup	1	100	1603188	200			COOK
F608224-DUP1	Duplicate 160954-02	1	100					25ax
F608224-MS1	Matrix Spike 1608154-02	1	100	1603 190	100			2500×
F608224-MS2	Matrix Spike \$ 609154-05	1	100	1603190	100			2500X
F608224-MSD1	Matrix Spike Dup 160815402	1	100	1603 AO	100			7500x
F608224-MSD2	Matrix Spike Dup 160815405	1	100	1603/90				rsax

Standard ID(s): 1603188 Description:

THg 1,000ng/mL Primary Spiking Standard

Expiration:

15-Dec-16 00:00

Reagent ID(s):

1604327

1604418

Description:

70/30 Digestion Acid

5% BrCl

Expiration:

31-Jan-17 00:00 11-Jan-17 00:00

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Date: 8/11/2016

F608224

BC 8-9-16 2600-3

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/8/2016

Lab Number	Sample ID	Initial (Trap)	Final (mL)	Sample Comments	Analysis Comments	۷.
1608154-01	SS002838-01 EFGS05518 Digestion Line 2 Heater 1	1	100	No 2500X	100	
1608154-02	SS002838-02 EFGS07551 Digestion Line 2 Heater 1	1	100	No 2500x	100×	
1608154-03	SS002838-03 EFGS07502 Digestion Line 2 Heater 1	1	100	No 2500X	IDOX	
1608154-04	SS002838-04 EFGS07470 Digestion Line 2 Heater 1	1	100	No 2500 x	100×	5000× → 2500
1608154-05	SS002838-05 EFGS05080 Digestion Line 2 Heater 1	1	100	No 2500x	1004	L
1608154-06	SS002838-06 EFGS07459 Digestion Line 2 Heater 1	1	100	No 2500x > 100x	100X	8/9/10
1608154-07	SS002838-07 EFGS05044 Evaporation Vacuum Pump Lin	1	100	No 2500 X	1004	
1608154-08	SS002838-08 EFGS07590 Evaporation Vacuum Pump Lin	1	100	No 1600X	100X	
1608154-09	SS002838-09 EFGS03378 Evaporation Vacuum Pump Lin	1	100	No 1000X	10014	500X - 200
608154-10	SS002838-10 EFGS07471 Evaporation Vacuum Pump Lin	1	100	No 1000 X	100×	2/4/2
1608154-11	SS002838-11 EFGS05102 Calciner 10] Oiler Fired	1	100	No 2500X 7 100Y	(00)X	"
608154-12	SS002838-12 EFGS05075 Calciner 10 - Oiler Fired	1	100	No 1004 -	1001	
608154-13	SS002838-13 EFGS05063 Calciner 10 - Oiler Fired	1	20	No 1004	100×	500x -> 201

Page 77 of 463 e Date: 8/11/2016

Name:AMB Work Order(s):/ 608/54	Date: 8/8	
Sample Matrix: FSTM KCI PHg Plug		
Prep: 70/30 Digestion, 2 hr. @ ~55°C (EFAFS-		
		0, 105
start time: 1350, start temp (°C):	28.0 (raw) 5.7.	§ (w/ CF)
end time: 1545 , end temp (°C): 6	410 (raw) 63,8	(w/ CF) Timer? Yes No
☐ 5% BrCl Oxidation (EFGS-031) start tir	ne: (allow s	amples to sit for at least 4 hr before analy
Other		
Sample ID Number	Digest vol. (m	
F608224- PLK1	100	
-600221 - 01 V2	100	Spike ID:
008227 BLN2	100	
608227-1963	100	Spike Amount (µL): 200
1008/24- 1051	100	Spike Witness: 8C 8-8-16
1018224-15-01	100	
1608154-01A	100	- and thousand
161608154-01B	(00)	BrCl ID: 1604418
1608154-02A	100	70/30: 1604327
1608154-028	IBO	Other: N/A
160815A-03A	IXX)	
1600154-028	180	11616
1.00101-011	100	Thermometer:
1900107-040	100	Dispensers: 02K27494
100 154 076	100	O4N73497
608154-040	190	
608 154-05A	(00	Other N/A
608 ISA-05B	100	
608154-06A	100	Pipette ID: MW 1160-7
608154-06B	100	Cal. Date: 8/3/16
608154-07A	100	Cal. Date
11 raid 120	100	
1608157076	100	Vials and Jars lot# 00064654
608154 08A	100	Loader Mass Verification:
608154088	<u>w</u>	Trap Material Lot#: 1603214
608154-694	(00	Trap Material Lot#. 100.527
608154-098	100	
608154-096	100	
608154-10A	TV()	Comments:
608154-10B	197)	1608154-04: Cbed
1608154-11A	100	
60812-11B	100	_spiked @10,000 ng.
100815A-13A	100	1608154-09:Cbed
160015/12P	100	
11005137180	100	spiked @ 500 ng.
(6081)478A	$ \omega$	
1608174-136	100	160.8154-13: C bea
1008154136	00	spiked a 500 ng.
AMB 8/8/16		AMB

Peer Review Check List for THg by 2600 CV-AFS (FGS-121) 2016 Rev 1 (04/1/2016)

Analyst:	BC	Sequence(s) #:	6H10008, 6H10008 6H10069 DAN 810.16
Reviewer:		Dataset ID(s):	THg26003-160809-1
Date:	8/10/2016	WO (s) #:	Various
Batch #(s):	F608240, F608230, F608224		

• Select the correct preparation method.

Analyte	Prep Method		Matrix
☑ THg	EFAFS-T-AFS-SOP2985	FSTM Trap 70:30 Digest	Air/Gas
☐ THg	EFAFS-T-AFS-SOP2807	Modified Cold Aqua Regia	Sed/Soi
□ THg	EFAFS-T-AFS-SOP2821	Shared Bomb- HF/HNO3/HCI Digest	Sed/Soi
□ тнg	EFTM-T-TM-SOP2825	Nitric Acid Oven Bomb	Sed/Soi
□ тн ₉	EFAFS-T-AFS-SOP2795	70:30 Digest	Tissue
☐ THg	EFAFS-T-AFS-SOP2800	KCI Trap BrCI Oxidation	Air/Gas
☐ THg	EFTM-T-TM-SOP2837	Shared Nitric	Tissue
☑ THg	EFSR-P-SP-SOP2796	BrCl Oxidation	Water
☐ Hg0	NA	NA	Water
☐ Inorg Hg	NA	NA	Water

	Analyst Initials:	Reviewer Initials	DI	ym	
Compare SampleID with Benchsheet/Sequence/Raw Data (Have all samples been imported?)		✓ YES	□ NO		P
2. Check for transcription errors from Excel spreadsheet (or Prep Benchsheet)/Raw data		✓ YES	□ NO		V
(a) On raw data (instrur	nent print-out), does correct file (dataset ID#) name appear in description?	YES	□ NO		D
	THg26001-yymmdd-1 or THg26002-yymmdd-1				
(b) Check 5% of transc	ription from Instrument print-out and Excel file	YES	□ NO		
Compare the "Dilute	and "Peak (raw)" columns to "Dilution" and "Uncorrected Result" in Excel				
	reagents in sequence & bench sheet for correct usage (expiries).	☐ YES	□ NO	□ N/A	
(d) Check and compare masses (review prep benchsheet)		DI-VES	□ NO	☑ N/A	0
(e) Check & compare initial & final volumes		8-10-10 PYES	□ NO	□ N/A	
(f) Do aliquots and dilutions written on benchsheet match those in Excel?		YES	□ NO	□ N/A	0
50 ml / aliquot = Exce	50 ml / aliquot = Excel dilution value				
(g) Is the sequence #, analyst, date, and instrument # on the QC page?		YES	□ NO		
(h) Is the analysis status correct? (analyzed/initial review/reviewed)		☑ YES	□ NO		1
(i) Original prep bench sheet added to data package?		VES YES	□ NO		9
(j) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)		YES	□ NO		D
3. High QA?	WO#(s)/Client(s):	☐ YES	☑ NO		Ø
4. Client specific QC? (if Y	☐ YES	☑ NO		0	
(a) Have the QC requirements been met for all WO#s?		✓ YES	□ NO		
(b) Prep blanks corrections/assigned properly		✓ YES	□ NO		1
5a. 20 or fewer samples in batch?		✓ YES	□ NO		
(i) 3 PBs, 1 LCS(or BS), 1 LCSD(or BSD), 1 DUP/Batch 1 MS/MSD (or AS/ASD)/10 samples?		✓ YES	□ NO		
(ii) 1 CCV and 1 CCB every 10 analytical runs?		✓ YES	☐ NO		B

Analyst:	BC	Sequence(s) #:	6H10008,-6H10008- U	HIUW9 DAY	81-16		
Reviewer:	0	Dataset ID(s):	THg26003-160809-1				
Date:	8/10/2016	WO (s) #:	Various				
Batch #(s):	F608240, F608230, F608224		0				
		Analyst Initials	BC	Reviewer Initials	DN	In	
5b. Has the B	/C section data been uploaded?			✓ YES	□ NO	□ N/A	Ø
QA/QC Data	Checked						
6. RSD CF (≤	15%)			PASS	FAIL		
Comment	s:						
7. The calibra	tion curve included a minimum of 5 Standards			✓ YES	□ NO		7
Comments							
8. 1st Calibra	tion Standard % Recoveries EPA 1631E (75-12	5%)		☑ PASS	FAIL		8
9. ICV and Co	CV % Recoveries EPA 1631E (77-123%)			PASS	FAIL		3
Comments							
10. Do all cali	bration points pass acceptance criteria?			✓ YES	□ NO		P'
Comments							
11.Are qualific	ers consistant with the data review flowcharts?			✓ YES	□ NO	□ N/A	
Comment	3:						
12. Explain ar	ny items on the failed data report from Element						9
Comments							
13. Are the ind	ividual Preparation Blanks < PQL or <2.2xMDL for W	/I (refer to appropriate prep me	ethod PQL list)	PASS	FAIL		I
(a) If not <	PQL or <2.2xMDL for WI, note which PB(s) are	above control limit:					
(b) Is the m	ean PB < PQL or <2.2xMDL for WI (for appropr	iate qualification)?		✓ YES	□ NO		
(c) Was a l	BrCl Blank analyzed for each preservation level?			✓ YES	□ NO	□ N/A	B
(d) Are Pre	paration Blanks summarized on QC page?			☑ YES	□ NO		9
14. Filtration I	Blank Prepared (if yes, use FB qualifier)			YES	✓ NO		
(a) Filtratio	n Blank prep date same as associated samples'	prep date		YES	□ NO	✓ N/A	
(b) Filtratio	n Blank absolute value < PQL or <2.2xMDL for	WI		YES	□ NO	✓ N/A	Ø
15. IBLs (3 m	inimum) individually < 0.50 ng/L, mean < 0.25 i	ng/L and STD of 0.10 ng/L?		✓ PASS	FAIL		
Comments							
16. CCBs indiv Comments	ridually < 0.50 ng/L or 2.2 x MDL for WI?			PASS	FAIL		
17. Have Tota	Il Solids been applied? (If NO, please ensure the	at they are done or nearly d	one)	YES	□ NO	✓ N/A	0
	ect 'Source' designated for MD/MS/MSD?	and the second of the second second		✓ YES	□ NO		9
19. For digest	ed preps: was there a spike witness signature &	date on the prep bench sh	eet?	✓ YES	□ NO	□ N/A	I

Analyst:	BC	Sequence(s) #:	6H10008, 6H10008 to H10000	1 DAN S	010.16		
Reviewer:	0	Dataset ID(s):	THg26003-160809-1				
Date:	8/10/2016	WO (s) #:	Various				
Batch #(s):	F608240, F608230, F608224		0				
		Analyst Initials	BC	Reviewer Initials	D	мм	
20. MS/MSD :	Spiked at least 1-5 X ambient or 5x MRL (whichever is hig	iher) ?		✓ YES	□ NO		1
Comments:							
21. Are all sar	mples within instrument calibration range? (or at minimum	dilution size)		✓ PASS	☐ FAIL		1
	:	andren orze)					_
	amples run at the correct dilution level for the method?			✓ YES	□ NO		-
							-
	< Total (if applicable)			✓ YES	□ NO	□ N/A	1
	·					_	
	Influent (visually confirm if needed)			YES	□ NO	✓ N/A	N N
Comments	::						
25. Are re-run	s noted with reason?			✓ YES	□ NO	□ N/A	V
Comments						- A 2 /	
26. FSTM Dat	tasets: Check to ensure the 'Response' & 'Initial Result' co	olumns match in b	oth the Excel dataset & LIMS for	✓ YES	□ NO	□ N/A	Ø
	in sequence) & B/C (in batch) traps?						
Comments	No. of the second			✓ YES	Пио		0.36
	rap <5% A Traps			<u> </u>	□ NO	□ N/A	P
Comments	d trap recoveries75-125% of true value?	_		✓ YES	П по	□ N/A	DV
Comments				E 100	L] NO	□ N/A	4
	s:			✓ YES	П по	T was	
Comments		to non-reportable	7	V TES	□ NO	∐ N/A	
	xtracts been created for non-reportable samples?			✓ YES	□ NO	Divi	M
	any HIGH QA projects within the data? If so, place data p	ackago in OA		☐ YES	☑ NO	□ N/A	
office before	scanning.	ackage III QA					
32. Does the	data set need scanning?			✓ YES		□ N/A	3
33. Does the	dataset have an LOQ/LOQ or DOC?			YES		✓ N/A	
34. Water san	nples: has the preservation log been included in dataset for	or final volume ve	rification?	₹ YES	□ NO	□ N/A	
35. Water sar	nples-is the final volume correct in the sequence?			✓ YES	□ NO	□ N/A	M
Files located	at: \\Cuprum\gen_admin\Quality Assurance\Training	Master\DOCs					
36. Date of ar	nalyst IDOC/CDOC: 8 10-16 +2/15/ 12/1	17/15 10	OC/CDOC within last 12 months?	✓ YES	□ NO		0
37. Date of ar	nalyst's SOP reading for method: D4 15502 com	r Lynn	Current SOP revision read?		□ NO		d
38. Date of LO	00: 6/14/16 6/23/16		LOD within last 3 months?	✓ YES	□ NO		
39. Date of LO	00: 6/14/16 6/23/16		LOQ within last 3 months?	✓ YES	□ NO		
Data can not	be reported without a current IDOC/CDOC, LOD or LO	Q,					

Peer Review Check List for THg by 2600 CV-AFS (FGS-121) 2016 Rev 1 (04/1/2016) Analyst: BC Sequence(s) #: 6H10008, 6H10008 (oH10009 Dmu 8 10 16 Reviewer: 0 Dataset ID(s): THg26003-160809-1 Date: 8/10/2016 WO (s) #: Various Batch #(s): F608240, F608230, F608224 0 BC 40. Peer Reviewer's comments (use Peer Review Checklist Additional Comments form if necessary): DMN Additional Page (s)? YES



Frontier Global Sciences

Analysis Datasheet for Total Mercury

Date of Analysis: August 11, 2016

Instrument #: Hg2600-3 LIMS Sequence #: 6H11005 Analyst: BC Units ng/L

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.50 ng/L	57.20 units	114.39	45.28 units	90.56	99.8 %Rec
SEQ-CAL2	1	1.00 ng/L	104.81 units	104.81	92.89 units	92.89	102.4 %Rec
SEQ-CAL3	1	5.00 ng/L	461.27 units	92.25	449.36 units	89.87	99.1 %Rec
SEQ-CAL4	1	20.00 ng/L	1809.88 units	90.49	1797.96 units	89.90	99.1 %Rec
SEQ-CAL5	1	40.00 ng/L	3623.13 units	90.58	3611.21 units	90.28	99.5 %Rec
SEQ-CAL6	0	The same of the sa		1,000,000	2.0000000000000000000000000000000000000		2210 701100
SEQ-CAL7	0						
SEQ-CAL8	0						
SEO-CAL9	0						

Corr. Mean RF 90.70 Corr. St Dev RF +/- 1.26 Corr. RSD CF 1.4% RSD Uncorr. Mean RF

98.51

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	3	11.92 units	±4.86	0.12 ng/l	±0.05

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.014 ng/L	±0.040
BLK	2	1	-0.013 ng/L	
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	
BLK	6	0	0.000 ng/L	

QUALITY ASSURANCE
PEER - REVIEWED
INITIALS: DAW 8-11-16

		Sample	1		AND DESCRIPTION OF THE PERSON NAMED IN	76.71		Uncorrected	Batch	No PB					
nstrument	Analyst	Type	LabNumber	Dilution	Analyzed	FileID	RunEnd	Response	ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2600-3	BC	CAL	SEQ-IBL1 -	1	8/11/2016 8:06:3	6 47401-1.RAW *	8:06:36 AM	16.87-			5.0	0.055	0.055	ng/L	
Hg2600-3	BC	CAL	SEQ-IBL2	1	8/11/2016 8:10:4	5 47402-1.RAW	8:10:45 AM	11.72			-0.2	-0.002	-0.002	ng/L	
dg2600-3	BC	CAL	SEQ-IBL3	1	8/11/2016 8:14:5	3 47403-1.RAW	8:14:53 AM	7.16		-	-4.8	-0.052	-0.052	ng/L	
dg2600-3	BC	CAL	SEQ-CAL1-	1	8/11/2016 8:19:0	1 47404-1.RAW -	8:19:01 AM	57.20-			45.3	0.499	0.499	ng/L	
1g2600-3	BC	CAL	SEQ-CAL2 =	1	8/11/2016 8:23:1	0 47405-1.RAW+	8:23:10 AM	104.81-			92.9	1.024	1.024	ng/L	
tg2600-3	BC	CAL	SEQ-CAL3 -	1	8/11/2016 8:27:1	8 47406-1.RAW -	8:27:18 AM	461.27			449.4	4.954	4,954	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL4 =	1	8/11/2016 8:31:2	7 47407-1.RAW -	8:31:27 AM-	1809.88			1798.0	19.823	19.823	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL5	1	8/11/2016 8:35:3	5 47408-1.RAW -	8:35:35 AM	3623.13			3611.2	39.815	39.815	ng/L	
1g2600-3	BC	CAL	SEQ-ICV1 -	1	8/11/2016 8:39:4	4 47409-1.RAW	8:39:44 AM-	503.23			491.3	5.417	5.417	ng/L	
Hg2600-3	BC	BLK	_F608263-BLK1	1	8/11/2016 8:48:4	2 47410-1.RAW	8:48:42 AM	16.96	1		5.0	0.056	0.056	ng/L	
Hg2600-3	BC	BLK	F608263-BLK2	1	8/11/2016 8:52:5	0 47411-1.RAW	8:52:50 AM	9.75	1		-2.2	-0.024	-0.024	ng/L	
Hg2600-3	BC	BLK	F608263-BLK3	1	8/11/2016 8:56:5	9 47412-1.RAW	8:56:59 AM	12.80	1		0.9	0.010	0.010	ng/L	
1g2600-3	BC	BLK	F608263-BLK4	1	8/11/2016 9:01:0	7 47413-1.RAW	9:01:07 AM	10.75	2		-1.2	-0.013	-0.013	ng/L	
1g2600-3	BC	SAM	_F608263-BS1-	1	8/11/2016 9:05:1:	5 47414-1.RAW _	9:05:15 AM-	1388.49	1		1376.6	15.163	15.163	ng/L	
+g2600-3	BC	SAM	TF608263-BSD1	1	8/11/2016 9:09:2	4 47415-1.RAW	9:09:24 AM	1408.12	1		1396.2	15.380	15.380	ng/L	
tg2600-3	BC	SAM	-1607542-01 -	1	8/11/2016 9:13:3:	2 47416-1.RAW-	9:13:32 AM-	80.27	1		68.4	0.740	0.740	ng/L	
tg2600-3	BC	SAM	-1607542-02	1	8/11/2016 9:17:4	1 47417-1.RAW	9:17:41 AM	32.16	1		20.2	0.209	0.209	ng/L	
lg2600-3	BC	SAM	1607542-03	1	8/11/2016 9:21:49	47418-1.RAW	9:21:49 AM	70.81	1		58.9	0.636	0.636	ng/L	
Hg2600-3	BC	SAM	1607542-04	1	8/11/2016 9:25:58	47419-1.RAW	9:25:58 AM	68.15	1		56.2	0.606	0.606	ng/L	
1g2600-3	BC	CAL	SEQ-CCV1 -	1	8/11/2016 9:30:06	47420-1.RAW -	9:30:06 AM-	487.07			475.2	5,239	5.239	ng/L	
lg2600-3	BC	CAL	SEQ-CCB1	1	8/11/2016 9:34:14	47421-1.RAW	9:34:14 AM	10.59			-1.3	-0.015	-0.015	ng/L	
lg2600-3	BC	SAM	1607542-05	1	8/11/2016 9:38:23		9:38:23 AM	97.04	1		85.1	0.925	0.925	ng/L	
lg2600-3	BC	SAM	1607542-06	1	8/11/2016 9:42:3	the state of the s	9:42:31 AM	117.97	1		106.1	1.156	1.156	ng/L	
lg2600-3	BC	SAM	1607542-07	1	8/11/2016 9:46:40	47424-1.RAW	9:46:40 AM	15.99	1		4.1	0.031	0.031	ng/L	
lg2600-3	BC	SAM	- 1607542-09	1	8/11/2016 9:50:48		9:50:48 AM	7.42	1		-4.5	-0.063	-0.063	ng/L	
lg2600-3	BC	SAM	1607586-19	1	8/11/2016 9:54:56		9:54:56 AM	142.24	1		130.3	1.423	1.423	ng/L	
lg2600-3	BC	SAM	-1607586-20	1	8/11/2016 9:59:05		9:59:05 AM	58.46	1		46.5	0.499	0.499	ng/L	
lg2600-3	BC	SAM	- 1607586-21	1	8/11/2016 10:03:13		10:03:13 AM	14.74	1		2.8	0.017	0.017	ng/L	
lg2600-3	BC	SAM	1607805-01	10	8/11/2016 10:07:22	A STATE OF THE PARTY OF THE PAR	10:07:22 AM	195.88	2		184.0	2,030	20.295	ng/L	
lg2600-3	BC	SAM	1607805-02	1	8/11/2016 10:11:30		10:11:30 AM	176.11	1		164.2	1.797	1.797	ng/L	
lg2600-3	BC	SAM	1608038-01	1	8/11/2016 10:15:38	the second secon	10:15:38 AM	24.97	1		13.1	0.130	0.130	ng/L	
lg2600-3	BC	CAL	SEQ-CCV2 ~	1	8/11/2016 10:19:47		10:19:47 AM_	504.12			492.2	5.427	5.427	ng/L	
lg2600-3	BC	CAL	SEQ-CCB2	1	8/11/2016 10:23:55	The second secon	10:23:55 AM	11,34			-0.6	-0.006	-0.006	ng/L	
lg2600-3	BC	SAM	1608109-01	1	8/11/2016 10:28:04		10:28:04 AM	23.42	1		11.5	0.113	0.113	ng/L	
lg2600-3	BC	SAM	1608109-03	1	8/11/2016 10:32:12		10:32:12 AM	646.58	1		634.7	6.984	6.984	ng/L	
lg2600-3	BC	SAM .	1608109-05	1	8/11/2016 10:36:21		10:36:21 AM	357.89	1		346.0	3.801	3.801	ng/L	
lg2600-3	BC	SAM	- 1608109-07	1	8/11/2016 10:40:29	THE RESERVE OF STREET	10:40:29 AM	21.87	i		10.0	0.096	0.096	ng/L	
g2600-3	BC	SAM	1608109-09	1	8/11/2016 10:44:37		10:44:37 AM	276.68	1		264.8	2,905	2.905	ng/L	
g2600-3	BC	SAM	1608109-11	1	8/11/2016 10:48:46		10:48:46 AM	258.35	1		246.4	2.703	2.703	ng/L	
lg2600-3	BC	SAM -	F608263-MS1-	1	8/11/2016 10:52:54	the state of the s	10:52:54 AM-	598.26	1		586.3	6.451	6.451	ng/L	
g2600-3	BC	SAM	F608263-MSD1	1	8/11/2016 10:57:03		10:57:03 AM	593.92	1		582.0	6.403	6.403	ng/L	
g2600-3	BC	SAM -	F608263-MS2	1	8/11/2016 11:01:11		11:01:11 AM	656.47	1		644.6	7.093	7.093	ng/L	
lg2600-3	BC		F608263-MSD2	1	8/11/2016 11:05:19		11:05:19 AM	667.95	1		656.0	7.219	7.219	ng/L	
g2600-3	BC	CAL	SEQ-CCV3	1	8/11/2016 11:09:28		11:09:28 AM	523.03	-		511.1	5.635	5.635	ng/L	
lg2600-3	BC	CAL	SEQ-CCB3	1	8/11/2016 11:13:36		11:13:36 AM	22.54			10.6	0.117	0.117	ng/L	
g2600-3	BC	SAM .	F608263-DUP1-	1	8/11/2016 11:17:45		11:17:45 AM	80.30	1		68.4	0.740	0.740	ng/L	
g2600-3	BC	BLK	F608233-BLK1	100	8/11/2016 11:21:53		11:21:53 AM	19.11	•	x	7.2	0.079	7.933	ng/L	
g2600-3	BC	BLK	F608233-BLK2	100	8/11/2016 11:26:01		11:26:01 AM	20.22			8.3	0.092	9.158	ng/L	
g2600-3	BC	BLK	F608233-BLK3	100	8/11/2016 11:30:10	the second secon	11:30:10 AM	15.99			4.1	0.045	4.491	ng/L	
g2600-3	BC	SAM	F608233-BS1	500	8/11/2016 11:34:18		11:34:18 AM	383.99			372.1	4.102	2051.143	ng/L	
g2600-3	BC	SAM	F608233-BSD1	500	8/11/2016 11:38:27		11:38:27 AM	382.54			370.6	4.086	2043.148	ng/L	
g2600-3	BC	SAM	1608154-14	100	8/11/2016 11:42:35		11:42:35 AM	54.28			42.4	0.467	46.707	ng/L	
g2600-3 g2600-3	BC	SAM	1608154-15	2500	8/11/2016 11:46:44	The state of the s	11:42:35 AM	129030.53			129018.6	1422.482	3556205.197	77.	
	BC	SAM	WS	2500	8/11/2016 11:46:44	AND DESCRIPTION OF THE PARTY OF	11:56:28 AM	198.79			186.9	2,060		ng/L	
g2600-3	BC	SAM	CLEAN	1		The state of the s						2010/201	2.060	ng/L	
g2600-3	BC	SAM	WS	1	8/11/2016 12:00:49		12:00:49 PM	26.87			15.0	0.165	0.165	ng/L	
g2600-3 g2600-3	BC	SAM	WS	1	8/11/2016 12:04:58		12:04:58 PM	71.60			59.7	0.658	0.658	ng/L	
y2000-3	DC	PIAC	1113	II.	8/11/2016 12:09:06	4/43/-1.RAW	12:09:06 PM	46.09			34.2	0.377	0.377	ng/L	

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instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2600-3	BC	SAM	WS	1	8/11/2016 12:13:15	47458-1.RAW	12:13:15 PM	38.76		×	26.8	0.296	0.296	ng/L	
Hg2600-3	BC	SAM	ws	1	8/11/2016 12:17:23	47459-1.RAW	12:17:23 PM	40.74		x	28.8	0.318	0.318	ng/L	
Hg2600-3	BC	SAM	WS	1	8/11/2016 12:21:31	47460-1.RAW	12:21:31 PM	39.50		x	27.6	0.304	0.304	ng/L	
Hg2600-3	BC	SAM	WS	1	8/11/2016 12:25:40	47461-1.RAW	12:25:40 PM	32.14		×	20.2	0.223	0.223	ng/L	
Hg2600-3	BC	SAM	1608154-21	2500	8/11/2016 12:29:48	47462-1.RAW	12:29:48 PM	154193.54		x	154181.6	1699.914	4249785.980	ng/L	
Hg2600-3	BC	SAM	1608154-25	2500	8/11/2016 12:39:32	47463-1.RAW	12:39:32 PM	460.10		x	448.2	4.941	12353.617	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV4-	1	8/11/2016 12:43:41	47464-1.RAW -	12:43:41 PM -	633.00			621.1	6.848	6.848	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB4	1	8/11/2016 12:47:49	47465-1.RAW -	12:47:49 PM -	96.17			84.3	0.929	0.929	ng/L	
Hg2600-3	BC	SAM	ws	1	8/11/2016 12:56:38	47467-1.RAW	12:56:38 PM	418.23	_ = =	×	406.3	4.480	4.480	ng/L	
Hg2600-3	BC	SAM	ws	1	8/11/2016 13:00:46	47468-1.RAW	1:00:46 PM	62.89		×	51.0	0.562	0.562	ng/L	
Hg2600-3	BC	SAM	WS	1	8/11/2016 13:04:55	47469-1.RAW	1:04:55 PM	55.64784167		x	43.7	0.482	0.482	ng/L	
Hg2600-3	BC	SAM	WS	1	8/11/2016 13:09:03	47470-1.RAW	1:09:03 PM	54.05		x	42.1	0.465	0.465	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV5 =	1	8/11/2016 13:13:11	47471-1.RAW-	1:13:11 PM-	547.63			535.7	5.906	5.906	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB5 -	1	8/11/2016 13:17:20	47472-1.RAW -	1:17:20 PM	59.91-			48.0	0.529	0.529	ng/L	

TotalMercury EPA1631	Operate BC Worksh THg260 Method #### Descrip THg260	CalibFa	11.917 Calib Eqn: 90.7 Status: 1 R ² :	QC Wa	: (Area-11.91 Run Date: rnings:5/QC E Run Time: 1		Blank SD: Blank RSD%: CF SD: CF RSD%:	4.859873844 40.78232244 1.257107378 1.386011407				
Sample/ID	Location Rinse	Property and the second second	Blank Conc (ppt)	MB%	FinalConc Rec% C	QA	RawData	RunEnd	Peak (Raw)		Flags	RunCount
Clean			0.00	1.23			47396-1.RAW	7:47:11	111.21	Clean	OK	1
clean							47397-1.RAW	7:50:03	0.00	Clean	NP	4
ws			11.92	0.00			47398-1.RAW	7:54:11	10.02	Sample	OK	1
ws			11.92	0.00			47399-1.RAW	7:58:19	6.26	Sample	OK	1
WS			11.92	0.00			47400-1.RAW	8:02:28	7.48	Sample	OK	1
SEQ-IBL1	A1	1	0.00	0.19			47401-1.RAW	8:06:36	16.87	Sample	OK	1
SEQ-IBL2	A2	1	0.00	0.13			47402-1.RAW	8:10:45	11.72	Sample	OK	1
SEQ-IBL3	A3	1	0.00	0.08			47403-1.RAW	8:14:53	7.16	Sample	OK	1
SEQ-CAL1	A4	1	11.92	0.50	99.84		47404-1.RAW	8:19:01	57.20	Sample	OK	1
SEQ-CAL2	A5	1	11.92	1.02	102.41		47405-1.RAW	8:23:10	104.81	Sample	OK	1
SEQ-CAL3	A6	1	11.92	4.95	99.09		47406-1.RAW	8:27:18	461.27	Sample	OK	1
SEQ-CAL4	A7	1	11.92	19.82	99.12		47407-1.RAW	8:31:27	1809.88	Sample	OK	1
SEQ-CAL5	A8	1	11.92	39.82	99.54		47408-1.RAW	8:35:35	3623.13	Sample	FB	11
SEQ-ICV1	A9	1	11.92	5.42	108.34		47409-1.RAW	8:39:44	503.23	Sample	OK	9
F608263-BLK1	A10	1	11.92	0.06			47410-1.RAW	8:48:42	16.96	Sample	OK	1
F608263-BLK2	A11	1	11.92	0.00			47411-1.RAW	8:52:50	9.75	Sample	OK	1
F608263-BLK3	A12	1	11.92	0.01			47412-1.RAW	8:56:59	12.80	Sample	OK	1
-608263-BLK4	B1	1	11.92	0.00			47413-1.RAW	9:01:07	10.75	Sample	OK	1
608263-BS1	B2	1	11.92	15.18			47414-1.RAW	9:05:15	1388.49	Sample	OK	1
608263-BSD1	B3	1	11.92	15.39			47415-1.RAW	9:09:24	1408.12	Sample	OK	1
1607542-01	B4	1	11.92	0.75			47416-1.RAW	9:13:32	80.27	Sample	OK	1
1607542-02	B5	1	11.92	0.22			47417-1.RAW	9:17:41	32.16	Sample	OK	1
1607542-03	B6	1	11.92	0.65			47418-1.RAW	9:21:49	70.81	Sample	OK	1
1607542-04	B7	1	11.92	0.62			47419-1.RAW	9:25:58	68.15	Sample	OK	1
SEQ-CCV1	B8	1	11.92	5.24	104.77		47420-1.RAW	9:30:06	487.07	Sample	OK	1
SEQ-CCB1	B9	1	11.92	0.00	0.00		47421-1.RAW	9:34:14	10.59	Sample	OK	1
1607542-05	B10	1	11.92	0.94			47422-1.RAW	9:38:23		Sample	OK	1.
607542-06	B11	1	11.92	1.17			47423-1.RAW	9:42:31	117.97	Sample	OK	1
607542-07	B12	1	11.92	0.04			47424-1.RAW	9:46:40	15.99	Sample	OK	1
607542-09	C1	1	11.92	0.00			47425-1.RAW	9:50:48	7.42	Sample	OK	1
1607586-19	C2	1	11.92	1.44			47426-1.RAW	9:54:56	142.24	Sample	OK	1
607586-20	C3	1	11.92	0.51			47427-1.RAW	9:59:05	58.46	Sample	OK	1
1607586-21	C4	1	11.92	0.03			47428-1.RAW	10:03:13	14.74	Sample	OK	1
607805-01	C5	10	11.92	20.28			47429-1.RAW	10:07:22	195.88	Sample	OK	1
607805-02	C6	1	11.92	1.81			47430-1.RAW	10:11:30	176.11	Sample	OK.	1
1608038-01	C7	1	11.92	0.14			47431-1.RAW	10:15:38	24.97	Sample	OK	1
SEQ-CCV2	C8	1	11.92	5.43	108.54		47432-1.RAW	10:19:47	504.12	Sample	OK	1
EQ-CCB2	C9	1	11.92	0.00	0.00		47433-1.RAW	10:23:55	11.34	Sample	OK	1
608109-01	C10	1	11.92	0.13			47434-1.RAW	10:28:04		Sample	OK	1
608109-03	C11	1	11.92	7.00			47435-1.RAW	10:32:12	646.58	Sample	OK	1
608109-05	C12	1	11.92	3.81			47436-1.RAW	10:36:21	357.89	Sample	OK	1
608109-07	D1	1	11.92	0.11			47437-1.RAW	10:40:29	21.87	Sample	OK	1
608109-09	D2	1	11.92	2.92			47438-1.RAW	10:44:37	276.68	Sample	OK	1
608109-11	D3	1	11.92	2.72			47439-1.RAW	10:48:46	258.35	Sample	OK	1
F608263-MS1	D4	1	11.92	6.46	173.92		47440-1.RAW	10:52:54	598.26	Sample	OK	1

F608263-MSD1	D5	1	11.92	6.42		47441-1.RAW	10:57:03	593.92 Sample	OK	1
F608263-MS2	D6	1	11.92	7.11	84.43	47442-1.RAW	11:01:11	656.47 Sample	OK	1
F608263-MSD2	D7	1	11.92	7.23		47443-1,RAW	11:05:19	667.95 Sample	OK	1
SEQ-CCV3	D8	1	11.92	5.64	112.70	47444-1.RAW	11:09:28	523.03 Sample	OK	1
SEQ-CCB3	D9	1	11.92	0.12	0.00	47445-1.RAW	11:13:36	22.54 Sample	OK	1
F608263-DUP1	D10	1	11.92	0.75	27.77	47446-1.RAW	11:17:45	80.30 Sample	OK	1
F608233-BLK1	D11	100	11.92	7.93		47447-1.RAW	11:21:53	19.11 Sample	OK	1
F608233-BLK2	D12	100	11.92	9.16		47448-1.RAW	11:26:01	20.22 Sample	OK	1
F608233-BLK3	A1	100	11.92	4,49		47449-1.RAW	11:30:10	15.99 Sample	OK	1
F608233-BS1	A2	500	11.92	2051.14		47450-1.RAW	11:34:18	383.99 Sample	OK	1
F608233-BSD1	A3	500	11.92	2043.15		47451-1.RAW	11:38:27	382.54 Sample	OK	1
1608154-14	A4	100	11.92	46.71		47452-1.RAW	11:42:35	54.28 Sample	OK	1
1608154-15	A5	2500	11.92	3556205.20		47453-1.RAW	11:46:44	129030.53 Sample	OLFB	,
WS	(10	2000	11.92	2.06		47454-1.RAW	11:56:28	198.79 Sample	OK	1
CLEAN			0.00	0.30		47455-1.RAW	12:00:49	26.87 Clean	OK	1
WS			11.92	0.66		47456-1.RAW	12:04:58	71.60 Sample	OK	1
WS			11.92	0.38		47457-1.RAW	12:09:06	46.09 Sample	OK	1
ws			11.92	0.30		47458-1.RAW	12:13:15	38.76 Sample	OK	1
ws			11.92	0.32		47459-1.RAW	12:17:23			1
WS			11.92	0.30		47460-1.RAW	12:21:31	40.74 Sample	OK	
WS			11.92	0.22				39.50 Sample	OK	1
1608154-21	AG	2500	11.92	4249785.98		47461-1.RAW	12:25:40	32.14 Sample	OK	1
1608154-25	A6 A7					47462-1.RAW	12:29:48	154193.54 Sample	OLFB	a
SEQ-CCV4	A8	2500 1	11.92 11.92	12353.62	120.05	47463-1.RAW	12:39:32	460.10 Sample	OK	1
SEQ-CCV4 SEQ-CCB4	A9	1	11.92	6.85	136.95	47464-1.RAW	12:43:41	633.00 Sample	OK.	1
	A9	1		0.93	0.00	47465-1.RAW	12:47:49	96.17 Sample	OK	1
ws			11.92	4.48		47467-1.RAW	12:56:38	418.23	OK	1
WS			11.92	0.56		47468-1.RAW	13:00:46	62.89 Sample	OK	1
WS			11,92	0.48		47469-1.RAW	13:04:55	55.65 Sample	OK	1
WS	04		11.92	0.46	440.40	47470-1.RAW	13:09:03	54.05 Sample	OK	1
SEQ-CCV5	C1	1	11.92	5.91	118.13	47471-1.RAW	13:13:11	547.63 Sample	OK	1
SEQ-CCB6	C2		11.92	0.53	0.00	47472-1.RAW	13:17:20	59.91 Sample	OK	1
1608154-15RE1		1E+06	11.92	4181110.18		47466-2.RAW	13:24:03	315.30 Sample	OK	1
1608154-16	A11	1E+06	11.92	1581794.68		47473-1.RAW	13:28:12	126.69 Sample	OK	1
1608154-17	A12	1E+06	11.92	2779216.58		47474-1.RAW	13:32:20	213.58 Sample	OK	1
1608154-18	B1	1E+06	11.92	1696374.50		47475-1.RAW	13:36:28	135.01 Sample	OK	1
1608154-19	B2	1E+06	11.92	1209469.63		47476-1.RAW	13:40:37	99.68 Sample	OK	1
1608154-20	B3	1E+06	11.92	374885.02		47477-1.RAW	13:44:45	39.12 Sample	OK	1
CLEAN			2.00	0.49		47478-1.RAW	13:47:37	0.00 Clean	NP	1
CLEAN			0.00	0.17		47479-1.RAW	13:50:28	15.39 Clean	OK	1
CLEAN			0.00	0.20		47480-1.RAW	13:53:19	18.48 Clean	OK	1
WS			11.92	0.36		47481-1.RAW	13:57:28	44.23 Sample	OK	1
WS			11.92	0.22		47482-1.RAW	14:01:36	31.59 Sample	OK	1
ws			11.92	0.21		47483-1.RAW	14:05:45	31.22 Sample	OK	1
WS			11.92	3.80		47484-1.RAW	14:09:53	356.51 Sample	OK	1
CLEAN			44.00			47485-1.RAW	14:12:44	0.00 Clean	NP	1
WS			11.92	0.05		47486-1.RAW	14:16:53	16.46 Sample	OK	1
WS			11.92	0.60		47487-1.RAW	14:21:01	66.74 Sample	OK	1
WS			11.92	0.30		47488-1.RAW	14:25:10	39.41 Sample	OK	1
WS			11.92	0.20		47489-1.RAW	14:29:18	30.51 Sample	OK	1
WS			11.92	0.27		47490-1.RAW	14:33:26	36.67 Sample	OK	1

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WS	11.92	0.25	47491-1.RAW	14:37:35	34.51 Sample	OK	4
WS	11.92	0.29	47492-1.RAW	14:41:43	38.07 Sample	OK OK	4
WS	11.92	0.33	47493-1.RAW	14:45:52	42.14 Sample	OK	1
WS	11.92	0.37	47494-1.RAW	14:50:00	45.63 Sample	OK	1
WS	11.92	0.28	47495-1.RAW	14:54:09	37.58 Sample	OK	1
WS	11.92	0.31	47496-1.RAW	14:58:17	39.95 Sample	OK	1
jk			47497-1.RAW	15:13:42	3.97 Clean	OK	1
Clean			47498-1.RAW	15:16:33	0.00 Clean	NP	4
Clean			47499-1.RAW	15:19:25	0.00 Clean	NP	1
Clean			47500-1.RAW	15:22:16	14270.57 Clean	FB	1
Clean			47501-1.RAW	15:25:07	0.00 Clean	NP	1
Clean			47502-1.RAW	15:27:59	24.27 Clean	OK	1
Clean			47503-1.RAW	15:30:50	247.41 Clean	OK	1
Clean			47504-1.RAW	15:33:41	0.00 Clean	NP	1

Failing Data Report - 6H11005

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
6H11005-CCV4	Hg-CVAFS-W-1631	6.85	0.495			5.0000	ng/L	137	77.00	123.00			PASS-OVER	FAIL-CCV	<i>le run</i>
6H11005-CCB4	Hg-CVAFS-W-1631	0.93	0.495				ng/L						PASS-OVER	FAIL-CCB	rerun
6H11005-CCB5	Hg-CVAFS-W-1631	0.53	0.495				ng/L						PASS-OVER	FAIL-CCB	failed

Analyst Reviewed By

8/11/16

ate

Peer Reviewed By

Date

ANALYSIS SEQUENCE

6H11005

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6H11005-IBL1	QC	1			COMMOND
6H11005-IBL2	QC	2			
6H11005-IBL3	QC	3			
6H11005-CAL1	QC	4	1603274		
6H11005-CAL2	QC	5	1603275		
6H11005-CAL3	QC	6	1603276		
6H11005-CAL4	QC	7	1603277		
6H11005-CAL5	QC	8	1603278		
6H11005-ICV1	QC	9	1603625		
F608263-BLK1	QC	10			
F608263-BLK2	QC	-11			
F608263-BLK3	QC	12			
F608263-BLK4	QC	13			
F608263-BS1	QC	14		1	
F608263-BSD1	QC	15			
1607542-01	Hg-CVAFS-W-1631	16			Scan all data for level IV report
1607542-02	Hg-CVAFS-W-1631	17			Scan all data for level IV report
1607542-03	Hg-CVAFS-W-1631	18			Scan all data for level IV report
1607542-04	Hg-CVAFS-W-1631	19			Scan all data for level IV report
6H11005-CCV1	QC	20	1603625		· · · · · · · · · · · · · · · · · · ·
6H11005-CCB1	QC	21			
1607542-05	Hg-CVAFS-W-1631	22			Scan all data for level IV report
1607542-06	Hg-CVAFS-W-1631	23			Scan all data for level IV report
1607542-07	Hg-CVAFS-W-1631	24			Scan all data for level IV report
1607542-09	Hg-CVAFS-W-1631	25			Scan all data for level IV report
1607586-19	Hg-CVAFS-W-1631	26			Scan all data - Level IV
1607586-20	Hg-CVAFS-W-1631	27			Scan all data - Level IV
1607586-21	Hg-CVAFS-W-1631	28			Scan all data - Level IV
1607805-01	Hg-CVAFS-W-1631	29			Scan all data - Level IV
1607805-02	Hg-CVAFS-W-1631	30			Scan all data - Level IV
1608038-01	Hg-CVAFS-W-1631	31			Do not oven samples (CCV 90-110%, CCB <), <1/2 PQL
6H11005-CCV2	QC	32	1603625		, , , , , , , , , , , , , , , , , , , ,
6H11005-CCB2	QC	33			
1608109-01	Hg-CVAFS-W-1631	34			
1608109-03	Hg-CVAFS-W-1631	35			

Due Date: 8/11/2016

ANALYSIS SEQUENCE

6H11005

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/10/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1608109-05	Hg-CVAFS-W-1631	36			
1608109-07	Hg-CVAFS-W-1631	37			
1608109-09	Hg-CVAFS-W-1631	38			
1608109-11	Hg-CVAFS-W-1631	39			
F608263-MS1	QC	40			
F608263-MSD1	QC	41			
F608263-MS2	QC	42			
F608263-MSD2	QC	43			
6H11005-CCV3	QC	44	1603625		
6H11005-CCB3	QC	45			
F608263-DUP1	QC	46			
6H11005-CCV4	QC	47	1603625		
6H11005-CCB4	QC	48			
6H11005-CCV5	QC	49	1603625		
6H11005-CCB5	QC	50			

Samples Loaded By

D .

Data Processed By

D

10922 8/0/16

Due Date: 8/11/2016

F608263

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/10/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spike1	Spike2 ID	μl Spike2	Extraction Comments
F608263-BLK1	Blank	100	101					Source:1607542-08
F608263-BLK2	Blank	100	101					Source:1607542-08
F608263-BLK3	Blank	100	101					Source:1607542-08
F608263-BLK4	Blank	100	102					
F608263-BS1	LCS	50	50.5	1505246	100			
F608263-BSD1	LCS Dup	50	50.5	1505246	100			
F608263-DUP1	Duplicate [1607542-01]	100	101					
F608263-MS1	Matrix Spike [1607542-06]	49.50495	50	1603190	25			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F608263-MS2	Matrix Spike [1607805-02]	49.50495	50	1603190	25			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F608263-MSD1	Matrix Spike Dup [1607542-06]	49.50495	50	1603190	25			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F608263-MSD2	Matrix Spike Dup [1607805-02]	49.50495	50	1603190	25			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL

Standard ID(s): 1505246

1603190

Description:

Nist 1641D 200X

THg 10ng/mL Calibration Standard

Expiration:

20-Aug-16 00:00

15-Sep-16 00:00

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Date: 8/11/2016

F608263

Eurofins Frontier Global Sciences, Inc.

Matrix: Water Prepared using: AFS - EPA 1631E BrCl Oxidation

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607542-01	OL-2434-01	100	101	(F)		7	Scan all data for level IV report	
1607542-02	OL-2434-01 Dissolved	100	101	7.8	-	B	Scan all data for level IV report	
1607542-03	OL-2434-02	100	101		12	14	Scan all data for level IV report	
607542-04	OL-2434-03	100	101	97		- £	Scan all data for level IV report	
607542-05	OL-2434-04	100	101	-	4	19	Scan all data for level IV report	
607542-06	OL-2434-05	100	101	4.7	V4.7	4	Scan all data for level IV report	
607542-07	OL-2434-06	100	101		3.		Scan all data for level IV report	
607542-09	Laboratory Filter Blank	100	101	1.0	153	94_	Scan all data for level IV report	
607586-19	1532 WQ-FPT_071816_SW_10	100	101		14	N. or	Scan all data - Level IV	
607586-20	1532 WQ-FPT_071816_SW_10 Dissolved	100	101	1.9	14	14	Scan all data - Level IV	
607586-21	1533 EB_071916_SW_QC Dissolved	100	101	7-0	p.5 q	9	Scan all data - Level IV	
607805-01	ADD-02_072216_SW_10	100	102	-		-	Scan all data - Level IV	
607805-02	ADD-02_072216_SW_10 Dissolved	100	101	1	- 3-		Scan all data - Level IV	
608038-01	August 2016 Monthly Water ICPMS Sink 1	100	101	De	-		Do not oven samples (CCV 90-110%, (
608109-01	C141742 003 Blank	100	101	Ter i		÷		
608109-03	C142057 003	100	101	-	-	14		
109-05	C142063 003 DUP	100	101	· (+	91	ē. "		
Page 93 of 463	C142061 001 Blank	100	101	7.4	-31			
ယ် 109-09	C141746 001	100	101					

Prepared: 8/10/2016

F608263

Eurofins Frontier Global Sciences, Inc.

Matrix: Water	Prepared using: AFS - EPA 1631E BrCl Oxidation	Prepared: 8/10/2016

1608109-11 Bottle I 001 DUP 100 101 - - -



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e Date: 8/11/2016

F608263

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/10/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608263-BLK1	Blank	100	101					IV.
F608263-BLK2	Blank	100	101					14
F608263-BLK3	Blank	100	101					17
F608263-BS1	LCS	100	101	1505246	100	5-		1X
F608263-BSD1	LCS Dup	100	101	1505246	100			14
F608263-DUP1	Duplicate 1608542-01	100	101					/×
F608263-MS1	Matrix Spike 1608 542 - 06	100	101	1605 AO	25			1×
F608263-MS2	Matrix Spike	100	101	1603140	25			1×
F608263-MSD1	Matrix Spike Dup 1600542-06	100	101	1603/90	25			1×
F608263-MSD2	Matrix Spike Dup	100	101	1603190	25	100		×

Standard ID(s):

Description:

Expiration:

100 102

Page 95 of 463 re Date: 8/11/2016

F608263

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/10/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments	
1607542-01	OL-2434-01	100	101	- 697	191	2.7	Scan all data for level IV report		5
1607542-02	OL-2434-01 Dissolved	100	101	7.3			Scan all data for level IV report		
1607542-03	OL-2434-02	100	101	-	15	÷	Scan all data for level IV report		
1607542-04	OL-2434-03	100	101	1	132	0	Scan all data for level IV report		
1607542-05	OL-2434-04	100	101	31	T	1.0	Scan all data for level IV report		
1607542-06	OL-2434-05	100	101	737	135	2	Scan all data for level IV report		
1607542-07	OL-2434-06	100	101	*		7	Scan all data for level IV report		
1607542-09	Laboratory Filter Blank	100	101	F 35-4	7.7	4	Scan all data for level IV report		
1607586-19	1532 WQ-FPT_071816_SW_10	100	101		-		Scan all data - Level IV		
1607586-20	1532 WQ-FPT_071816_SW_10 Dissolved	100	101				Scan all data - Level IV		
1607586-21	1533 EB_071916_SW_QC Dissolved	100	101	~ 1	-	-6	Scan all data - Level IV		
1607805-01	ADD-02_072216_SW_10	100	102	10.200			Scan all data - Level IV		55
1607805-02	ADD-02_072216_SW_10 Dissolved	100	101		(C#0)	ė	Scan all data - Level IV	KIX .	5
1608038-01	August 2016 Monthly Water ICPMS Sink 1	100	101	187	- 2.5		Do not oven samples (CCV 90-110%, t	1×	S
1608109-01	C141742 003 Blank	100	101	FΘ	81		1×		5
1608109-03	C142057 003	100	101	-	-	ě	lΧ		
1608109-05	C142063 003 DUP	100	101	13.1	-		l×		
8109-07 CO	C142061 001 Blank	100	101	=÷		To T	14		
8109-09	C141746 001	100	101	13-1	12	*	14		

F608263

Eurofins Frontier Global Sciences, Inc.

Prepared: 8/10/2016 Prepared using: AFS - EPA 1631E BrCl Oxidation Matrix: Water

Bottle 1 001 DUP 1608109-11 5533

Page 97 of 463 are Date: 8/11/2016

	n and/or verification Date: 420	1 Time Completed: 16,50	Work Orders: 607537, 1607538 1607539, 1607540, 1607542			
Additional preserv	vation and/or verific	cation (as needed)	BrCI LIMS ID: 1603196			
Technician:	Date:	Time Completed:	Pipette SN: MU32224			
Technician:	Date:	Time Completed:	Cal. Date: 7/8/16			

	_			Addition	nal preservation (as	needed)
Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Oxidized? Y/N	Reagent added (mL)	Oxidized? Y / N
1607537-01A	300	3.60	Y			110
1607537-02A	300	300	Ÿ			
1607137-03A	300	3.00	Y			
1607538-01A	700	3.00	4			
1607538-02A	300	3.00	+			
1607438-63A	300	3.00	Y			
607539-01A	300	3.00	1			
1607539-02A	300	3,00	Y			
1607539-03A	300	3.00	1			
1607538-04A	300	3.00	4			
1607539-0518	716	15.00	4			
1607539-06A	340	3.00	Y			
1607540-01A	255	2.55	V			
1607542 - OLA	170	1,70	4			
1607942-02A	150	1.50	4			
W7542-03A	300	3.00	7			
1607942-04A	300	3.00	J			
1607542-05A	300	3.00	Y			
1607542-06 A	300	3.00	y			
1607542-07A	300	3.00	Y			
1607942-08A	300	7,00	Y			
1607542-09A	300	3.00	ď			
1607544 VOIA	300	3.00	Y			
1607544-02A	700	3,00	4			
1607544-03A	300	3,00	1			
1607544-04A	300	3,00	1			

07944-03A	300	3,00				
107544-04A	300	7.00	1			
kidation with BrCl is cor	nfirmed by a yellow	w color change of the	sample and/o	a purple cold	r change in KI starch	n paper.
						. Conference
mments:						
						Reviewed
Eurofins Frontier Global S	iciences / THe Preser	vation / LOG-PR-010 02 /	Effective: Sent 2	5 2013 / OA201	6-077 / Page 22 of 100	Reviewed

Initial preservation	n and/or verification	Work Orders: 1607576	
Additional preserv	vation and/or verific	cation (as needed)	BrCI LIMS ID: 1603196
Technician:	Date:	Time Completed:	Pipette SN: MU32229
Technician:	Date:	Time Completed:	Cal. Date: 7/8/6

	1 C1 W 1	T &		Addition	nal preservation (as	needed)
Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Oxidized? Y/N	Reagent added (mL)	Oxidized?
1607586-01A	300	3.00	V	- 1710	(mc)	Y/N
607586-02A	300	3.00	Y			
1607586-01A	306	3.00	Ų		T.	
1607586-04A	300	3.00	4			
1607586-05A	300	3.00	Y			
1607586 - 06A	300	3.00	Y			
607586 -07A	300	3.00	Y			
1607586 -081A	300	3.00	Y			
607586-09A	300	3.00	Ů,			
67586-1UA	300	3.00	ĭ			
1607586-11A	300	3.00	Ý			
1607586-12A	300	3.00	Y			
1607586-13A	300	3.00	4			
1607586-14A	300	3.00	V			
607586 -15A	300	3.00	4			
60756-16A	300	3.00	9			
607586-17A	300	9,00	Y			
3075F6-18A	300	3.00	Y			
1607536-19A	300	3.00	9			
160754 - 20A	300	3.00	Y			
1607586-214	300	7.00	4			
						<u> </u>
		ym 71:	21/1			
			100			

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

Comments:		
-		

Initial preservation	n and/or verificatio	n	Work Orders: 1607799, 1607803
Technician: CSQ	Date: 7/27	7/16 Time Completed: 1715	Work Orders: 1607799, 1607803
Additional preserv	ation and/or verific	cation (as needed)	7/27/16 BrCI LIMS ID: 1603196
Technician:	Date:	Time Completed:	Pipette SN: MU32224
Technician:	Date:	Time Completed:	Cal. Date: 7/8/16

				Addition	nal preservation (as	needed)
Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Oxidized? Y/N	Reagent added (mL)	Oxidized?
1607799-01 A	300	3.00	N.		477.7	.,,.,
1607799-02 A	300	3.00	TW			
1607799-03A	300	3.00	W			
1607799-09A	300	3.00	TVY			
1607799-05A	300	15,00	WI			
607799-06A	300	3.00	IN			
607803-01 A	300	3.00	w			
1607803-02A	300	3.00	101			
607803-03A	300	3.00	W			
607803-04 A	300	3.00	W			
607803-05 A	300	3.00	W/			
607803-06A	300	3.00	Ty	~		
1607803-07A	300	3,00	W			
1607805-01 A	300	3.00 43.00	m			
607805-02 A		3.00	n			
					The state of the s	>
	10	07	121/1	6		
		K				
		9				

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

Comments:			

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Eurofins Frontier Global Sciences / THg Preservation / LOG-PR-010.02 / Effective: Sept. 26, 2013 / QA2016-077 / Page 38 of 100

Technician: LM	Date: 81116	Time Completed:	6:35	Work Orders: 1608034			
Additional preservation	. 1			BrCl LIN	MS ID: 1603191	5	
Technician:	Date:	Time Completed:			SN: MU3222		
		Time Completed: Cal. Date:		te: 709/16			
				Additional preservation (as needed)			
Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Oxidized? Y/N	Reagent added (mL)	Oxidized?	
608034-074	300	3.00	7				
608034-02A	300	3.00	Y				
1608034-03A	300	7.00	7				
1608 038-01A	260	2,60	Y				
						7	
					/		
			/				
	/						
		Lm 81	1/16				
/							
/							
/						Tang.	
_							
Oxidation with BrCl is co							

Reviewed 8/2/16

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Initial preservation	n and/or verificatio	Work Orders: 1608104,1608114	
Technician: (5)	Date: 8/3/	16 Time Completed: 1750	1608113,1608108,1608071
Additional preservation and/or verification (as needed)			BrCI LIMS ID: 1603196
Technician:	Date:	Time Completed:	Pipette SN: MU32229 1603825
Technician:	Date:	Time Completed:	Cal. Date: 7/29/16

		1		Addition	nal preservation (as	needed)
Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1608104-01A	600	6.00	V			
1608109-03/	600	6.00	JW			
1608109-05A	600	6,00	W			
1608109-07A	600	6.00	W			
1608109-09A	600	6.00	9			
1608109-11A	600	6.00	W			
1608113-01 A	176	1.70	W			
1608113-02 A	156	1.50	ny			
1608113-03A	300	3.00	N O			
1608113-04A	300	3.00	1w			
1608113-05A	170	1.70	W			
1608113-06A	160	1.60	n			
1608113-07A	300	3.00	N			
1608113-08A	300	3.00	ly		/	
1608113-09 A	300	3.00	N			
1608113-10A	300	3.00	IN			
1608108-01 A	300	3.00	W			
1608108-02A	300 300 300	3.00	1 W			
1608 108-03 A	3.00 58 500	3,00	VI			
608108-05A	300	15,00	Ý			
1608108-04 A	3.00 0788/3/16	3.00	OW			
608108-06A	3.00 0 288/3/6	3.00	WI			
1608071-12	150	1.50	IW			
1608071-13	150	1.50	n			
1608071-19	150	1.50	T W			
1608 114-01B	10	10.00	N			

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

comments: \$ 50/50 BECI using Beci 1603825 - sample spiked in temperature

Reviewed 8/6/12 pm Page 102 of 463

Analyst:	BC	Sequence(s) #:	6H11005	
Reviewer:		Dataset ID(s):	THg26003-160810-1	
Date:	8/11/2016	WO (s) #:	1607542, 1607586, 1607805, 1608038, 1608109	
Batch #(s):	F608263			

Select the correct preparation method.

Analyte	Prep Method		Matrix
☐ THg	EFAFS-T-AFS-SOP2985	FSTM Trap 70:30 Digest	Air/Gas
☐ THg	EFAFS-T-AFS-SOP2807	Modified Cold Aqua Regia	Sed/Soi
☐ THg	EFAFS-T-AFS-SOP2821	Shared Bomb- HF/HNO3/HCI Digest	Sed/Soi
☐ THg	EFTM-T-TM-SOP2825	Nitric Acid Oven Bomb	Sed/Soi
□ тнg	EFAFS-T-AFS-SOP2795	70:30 Digest	Tissue
☐ THg	EFAFS-T-AFS-SOP2800	KCI Trap BrCl Oxidation	Air/Gas
☐ THg	EFTM-T-TM-SOP2837	Shared Nitric	Tissue
☑ THg	EFSR-P-SP-SOP2796	BrCl Oxidation	Water
☐ Hg0	NA	NA	Water
☐ Inorg Hg	NA	NA	Water

	Analyst Initials:	BC	Reviewer Initials	D	MW	
1. Compare SampleID with	h Benchsheet/Sequence/Raw Data (Have all samples been imported	d?)	✓ YES	□ NO		P
2. Check for transcription	errors from Excel spreadsheet (or Prep Benchsheet)/Raw data		✓ YES	□ NO		
(a) On raw data (instrur	nent print-out), does correct file (dataset ID#) name appear in descri	ption?	YES	□ NO		B
Naming convention:	THg26001-yymmdd-1 or THg26002-yymmdd-1					
(b) Check 5% of transcr	ription from Instrument print-out and Excel file		YES	□ NO		D
Compare the "Dilute	and "Peak (raw)" columns to "Dilution" and "Uncorrected Result" in	Excel				
(c) Check standards &	reagents in sequence & bench sheet for correct usage (expiries).		YES	□ NO	☐ N/A	
(d) Check and compare	masses (review prep benchsheet)		YES	□ NO	N/A	
(e) Check & compare in	nitial & final volumes		YES	□ NO	□ N/A	V
(f) Do aliquots and dilut	ions written on benchsheet match those in Excel?		YES	□ NO	□ N/A	
50 ml / aliquot = Exc	el dilution value					
(g) Is the sequence #, a	analyst, date, and instrument # on the QC page?		YES	□ NO		9
(h) Is the analysis statu	s correct? (analyzed/initial review/reviewed)		YES	□ NO		0
(i) Original prep bench	sheet added to data package?		YES	□ NO		I
(j) Benchsheet prep dat	e MUST match actual prep date (check if re-shot vs re-extract)		YES	□ NO		P
3. High QA?	WO#(s)/Client(s):		☐ YES	✓ NO		B
4. Client specific QC? (if Y	es, refer to Project Notes/LIMS)	. W	☐ YES	☑ NO		F
(a) Have the QC require	ements been met for all WO#s?		✓ YES	□ NO		1
(b) Prep blanks correcti	ons/assigned properly		₹ YES	□ NO		P
5a. 20 or fewer samples in	batch?		✓ YES	□ NO		Ø
(i) 3 PBs, 1 LCS(or BS)	, 1 LCSD(or BSD), 1 DUP/Batch 1 MS/MSD (or AS/ASD)/10 sample	s?	✓ YES	□ NO		d
(ii) 1 CCV and 1 CCB e	very 10 analytical runs?		✓ YES	□ NO		

Analyst: Reviewer:	BC 0	Sequence(s) #:							
2. 0.72 3200	STATE OF THE PARTY	Dataset ID(s):	THg26003-160810-1						
Date: Batch #(s):	8/11/2016 F608263	WO (s) #:		2, 1607586, 1607	805,1608038, 1608	8109			
- 20011 11(0)1			0	0.2	Reviewer				
		Analyst Initials	s	bc	Initials		W		
5b. Has the B	/C section data been uploaded?				YES	□ NO	✓ N/A		
QA/QC Data	Checked								
6. RSD CF (≤	15%)				PASS	FAIL		0	
Comment	s:								
7. The calibra	tion curve included a minimum of 5 Standards				✓ YES	□ NO		7	
Comments									
8. 1st Calibra	tion Standard % Recoveries EPA 1631E (75-125%)				✓ PASS	FAIL			
9. ICV and Co	CV % Recoveries EPA 1631E (77-123%)				✓ PASS	☐ FAIL			
Comments									
10. Do all cali	bration points pass acceptance criteria?				YES.	□ NO		Or .	
Comments	£								
11.Are qualifie	ers consistant with the data review flowcharts?				☐ YES	□ NO	✓ N/A	D'	
Comment	s:								
12. Explain ar	ny items on the failed data report from Element								
Comments	Closing CCV/CCB Failed, Dup not reportable								
13. Are the ind	lividual Preparation Blanks < PQL or <2.2xMDL for WI (refe	er to appropriate prep me	ethod PQL	list)	✓ PASS	FAIL		3	
(a) If not <	PQL or <2.2xMDL for WI, note which PB(s) are above	e control limit:							
(b) Is the m	nean PB < PQL or <2.2xMDL for WI (for appropriate q	ualification)?			V YES	□ NO			
(c) Was a I	BrCl Blank analyzed for each preservation level?				✓ YES	□ NO	□ N/A		
(d) Are Pre	paration Blanks summarized on QC page?				✓ YES	□ NO			
14. Filtration I	Blank Prepared (if yes, use FB qualifier)				✓ YES	□ NO			
(a) Filtration	n Blank prep date same as associated samples' prep	date			✓ YES	□ NO	□ N/A	P	
(b) Filtration	n Blank absolute value < PQL or <2.2xMDL for WI				✓ YES	□ NO	□ N/A	A	
15. IBLs (3 m	inimum) individually < 0.50 ng/L, mean < 0.25 ng/L a	and STD of 0.10 ng/L?	?		✓ PASS	FAIL			
Comments									
	vidually < 0.50 ng/L or 2.2 x MDL for WI?				✓ PASS	FAIL		Ø	
Comments									
17. Have Tota	al Solids been applied? (If NO, please ensure that the	y are done or nearly d	done)		☐ YES	□ NO	✓ N/A	2	
18. Is the corr	rect 'Source' designated for MD/MS/MSD?				✓ YES	□ NO			
19. For digest	ted preps: was there a spike witness signature & date	on the prep bench sh	neet?		☐ YES	☐ NO	✓ N/A	Ø	

Analyst: Reviewer:	BC 0	_ Sequence(s) #:	57 F. 17 C. 17 C. 17 T.							
	TOWNS TO THE PARTY OF THE PARTY	_ Dataset ID(s):	THg26003-160810-1	The state of the s						
Date: Batch #(s):	8/11/2016 F608263	_WO (s) #:	1607542, 1607586, 1607805,160	08038, 1608	3109					
		_	V	Devil						
		Analyst Initials	BC	Reviewer Initials	DM	M				
20. MS/MSD S	Spiked at least 1-5 X ambient or 5x MRL (whichever is high	gher) ?		✓ YES	□ NO		3			
Comments:										
21. Are all sam	nples within instrument calibration range? (or at minimum	n dilution size)		✓ PASS	☐ FAIL					
Comments:										
22. Are the sa	mples run at the correct dilution level for the method?			✓ YES	□ NO		1			
Comments:										
23. Dissolved	< Total (if applicable)			✓ YES	□ NO	□ N/A	V			
Comments:										
	Influent (visually confirm if needed)			YES	□ NO	✓ N/A				
Comments										
25. Are re-runs	s noted with reason?			YES	□ NO	✓ N/A	9			
Comments:										
26. FSTM Data	asets: Check to ensure the 'Response' & 'Initial Result' of	olumns match in b	oth the Excel dataset & LIMS for	YES	□ NO	☑ N/A	Ø			
	n sequence) & B/C (in batch) traps?									
	::ap <5% A Traps			YES	□ NO	✓ N/A	M			
				_ ,	_ NO	IV/A				
	tran recoveries 75, 1959/ of true value 2			YES	П по	✓ N/A	V			
	trap recoveries75-125% of true value?				L 100	[▼] IN/A				
	:	12 2 3 m m p 2 s 1	×	[] vec	T ""	[7] with	- 1			
Alle de como o	reportable samples been imported into LIMS and clicked	to non-reportable	7	YES	☐ NO	✓ N/A	1			
Comments				[] vee	П.,		ES.			
	tracts been created for non-reportable samples?	an also a a la constant		☐ YES	□ NO	✓ N/A				
office before s	any HIGH QA projects within the data? If so, place data p canning.	раскаде in QA		YES	□ NO	✓ N/A				
	lata set need scanning?			✓ YES		□ N/A	V			
33. Does the d	lataset have an LOQ/LOQ or DOC?			YES		✓ N/A	Z			
34. Water sam	ples: has the preservation log been included in dataset for	or final volume ver	ification?	₹ YES	□ NO	□ N/A	Ø			
	pples-is the final volume correct in the sequence?			☑ YES	□ NO	□ N/A				
	at: \\Cuprum\gen_admin\Quality Assurance\Training	Master\DOCs					7.5			
	alyst IDOC/CDOC: 12/17/15		OC/CDOC within last 12 months?	✓ YES	□ NO					
	alyst's SOP reading for method: DY ISSUC	Cost char			□ NO					
38. Date of LO	(haller		LOD within last 3 months?	-	□ NO		d			
39. Date of LO	Q: 6/14/16		LOQ within last 3 months?	-	□ NO					
Data can not	be reported without a current IDOC/CDOC, LOD or LO	OQ.								

Peer Review Check List for THg by 2600 CV-AFS (FGS-121) 2016 Rev 1 (04/1/2016) Analyst: BC Sequence(s) #: 6H11005 Reviewer: 0 Dataset ID(s): THg26003-160810-1 Date: 8/11/2016 WO (s) #: 1607542, 1607586, 1607805, 1608038, 1608109 Batch #(s): F608263 DMW 40. Peer Reviewer's comments (use Peer Review Checklist Additional Comments form if necessary): NO DUP available for Batch, The instrument was spiked from a trap sample in the Same bracket which chused the civicis to fail. BC B/11/16/ Additional Page (s)?





Frontier Global Sciences

Analysis Datasheet for Methyl Mercury in Waters

Date of Analysis: August 03, 2016 Instrument #: Hg2700-1 LIMS Sequence #: 6H03012

Analyst: JRH Units ng/L

Calibration Statistics:

LabNumber	n	True Vai	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	ĺ	0.05 ng/L	15.08 units	301.58	13.95 units	279.01	81.8 %Rec
SEQ-CAL2	1	0.20 ng/L	68.16 units	340.79	67,03 units	335.15	98.3 %Rec
SEQ-CAL3	1	1.00 ng/L	357.13 units	357.13	356.01 units	356.01	104.4 %Rec
SEQ-CAL4	1	2.00 ng/L	787.18 units	393.59	786.05 units	393.02	115.2 %Rec
SEQ-CAL5	1	4.00 ng/L	1370.51 units	342.63	1369.38 units	342.35	100.4 %Rec
SEQ-CAL6	0	·					
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF	Corr. St Dev RF	Corr. RSD CF	Uncorr. Mean RF	Eff Factor
341.11	+/- 41.26	12.1% RSD	347.14	0.8046

Blanks:	****	W		
LabNumber	n	Mean	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	1.13 units	0.00 ng/L	#VALUE!

MDN Only SEQ-CAL1 5EQ-CAL2 SEQ-CAL3 SEQ-CAL4 SEQ-CAL5 SEQ-CAL6 NA SEQ-CAL7 NA SEQ-CAL8 NA SEQ-CAL9 NA SEO-ICV/CCV Acetate Buffer Ethylating Agent

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.019 ng/L	±0.002
BLK	2	0	0.000 ng/L	
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

QUALITY ABSURANCE PEER-REVIEWED

MITIALS BC 8-4-16

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5,14,14,1	udja kates	Sample			141112 441 4			Uncorrected		No PB	7:15	TERRETOR A JOSEP		Charles to the first	
Instrument	Analyst	Type	LabNumber	Dilution	Analyzed	FileID	Run End	Response	Batch ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2700-1	JRH	CAL	SEQ-IBL1	1	8/3/16 12:52	13854-1.RAW	12:52:50	1.128551136		<u> </u>	0.0	0.000	0.000	! ng/L	
Hg2700-1	3RH	ÇAL	SEQ-CAL1	1	8/3/16 13:03	13855-1.RAW	13:03:21	15.07907197			14.0	0.041	0.041	ng/L	
Hq2700-1	JRH	CAL	SEQ-CAL2	1	8/3/16 13:13	13856-1.RAW	13:13:51	68.15767045	:	:	67.0	0.197	0.197	ng/L	
Hq2700-1	JRH	CAL	SEQ-CAL3	1	8/3/16 13:24	13857-1.RAW	13:24:22	357.1339015			356.0	1.044	1.044	nq/L	
Hg2700-1	JRH	CAL	SEQ-CAL4	1	8/3/16 13:34	13858-1.RAW	13:34:53	787.1754261			786.0	2.304	2.304	ng/L	
Hg2700-1	JRH	CAL	SEQ-CAL5	1	8/3/16 13:45	13859-1.RAW	13:45:23	1370.511032	:		1369.4	4.015	4.015	ng/L	
Hq2700-1	JRH	CAL	SEQ-ICV1	1	8/3/16 13:55	13860-1.RAW	13:55:54	189.7349432			188.6	0.553	0.553	ng/L	17 W W W W W W W W W W W W W W W W W W W
Hq2700-1	JRH	CAL	SEQ-1CB1	1	8/3/16 14:06	13861-1.RAW	14:06:25	5.064962121			3.9	0.012	0.012	ng/L	
Hq2700-1	JRH	BLK	F608139-BLK1	1.25	8/3/16 14:16	13862-1.RAW	14:16:55	4.969152462	1		3.8	0.014	0.017	ng/L	
Hg2700-1	JRH	BLK	F608139-BLK2	1.25	8/3/16 14:27	13863-1.RAW	14:27:26	5.104592803	1		4.0	0.014	0.018	ng/L	
Hq2700-1	JRH	BLK	F608139-BLK3	1.25	8/3/16 14:37	13864-1.RAW	14:37:57	5.687973485	1		4.6	0.017	0.021	ng/L	
Hg2700-1	JRH	SAM	F608139-BS1	1.25	8/3/16 14:48	13865-1.RAW	14:48:27	458.6229167	1		457.5	1.652	2.065	ng/L	
Hg2700-1	JRH	SAM	F608139-BSD1	1.25	8/3/16 14:58	13866-1.RAW	14:58:58	449.7125237	1		448.6	1.619	2.024	ng/L	
Hq2700-1	JRH	SAM	F608139-DUP1	1.25	8/3/16 15:09	13867-1.RAW	15:09:29	43.78709754	1		42.7	0.140	0.175	ng/L	
Hq2700-1	JRH	SAM	F608139-MS1	1.25	8/3/16 15:20	13868-1.RAW	15:20:00	167.6531723	1		166.5	0.592	0.740	ng/L	
Hg2700-1	JRH	SAM	F608139-MSD1	1.25	8/3/16 15:30	13869-1.RAW	15:30:31	154.4326468	1		153.3	0.544	0.679	ng/L	
Hg2700-1	JRH	SAM	F608139-MS2	1.25	8/3/16 15:41	13870-1.RAW	15:41:02	534.4974432	1		533.4	1.928	2.410	ng/L	A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Hq2700-1	JRH	SAM	F608139-MSD2	1.25	8/3/16 15:51	13871-1.RAW	15:51:33	455.1388494	1		454.0	1.639	2.049	ng/L	
Hq2700-1	JRH	CAL	SEQ-CCV1	1	8/3/16 16:02	13872-1.RAW	16:02:04	184.5484138			183.4	0.538	0.538	ng/L	
Hg2700-1	JRH	CAL	SEQ-CCB1	1	8/3/16 16:12	13873-1.RAW	16:12:34	7.367779356			6.2	0.018	0.018	ng/L	
Hq2700-1	JRH	SAM	1607159-01	1.25	8/3/16 16:23	13874-1.RAW	16:23:05	6.483712121	1		5.4	0.004	0.006	ng/L	
Hg2700-1	JRH	SAM	1607339-01	1.25	8/3/16 16:33	13875-1.RAW	16:33:36	35.54535985	1		34.4	0.110	0.138	nq/L	
Hg2700-1	JRH	SAM	1607339-02	1.25	8/3/16 16:44	13876-1.RAW	16:44:06	33.54441288	1		32.4	0.103	0.129	ng/L	
Hg2700-1	JRH	SAM	1607339-03	1.25	8/3/16 16:54	13877-1.RAW	16:54:37	9.0234375	1		7.9	0.014	0.017	ng/L	
Hg2700-1	JRH	5AM	1607339-04	1.25	8/3/16 17:05	13878-1.RAW	17:05:08	10.39086174	1		9.3	0.019	0.023	ng/L	
Hg2700-1	JRH .	SAM	1607339-05	1.25	8/3/16 17:15	13879-1.RAW	17:15:38	5.738944129	1	i	4.6	0.002	0.002	ng/L	
Hg2700-1	JRH	SAM	1607339-06	1.25	8/3/16 17:26	13880-1.RAW	17:26:09	11.08967803	1		10.0	0.021	0.027	ng/L	
Hq2700-1	JRH	SAM	1607380-01	1.25	8/3/16 17:36	13881-1.RAW	17:36:40	33.30004735	1		32.2	0.102	0.128	ng/L	
Hq2700-1	JRH	SAM	1607380-03	1.25	8/3/16 17:47	13882-1.RAW	17:47:10	43.33660038	1		42.2	0.139	0.173	ng/L	
Hq2700-1	JRH	SAM	1607380-05	1.25	8/3/16 17:57	13883-1.RAW	17:57:41	55.21661932	1		54.1	0.182	0.228	ng/L	
Hg2700-1	JRH	CAL	SEQ-CCV2	1	8/3/16 18:08	13884-1.RAW	18:08:12	187.5310843			186.4	0.546	0.546	ng/L	
Hq2700-1	JRH	CAL	SEQ-CCB2	1	8/3/16 18:18	13885-1.RAW	18:18:42	1.635369318			0.5	0.001	0.001	ng/L	
Hg2700-1	JRH :	SAM	1607380-07	1.25	8/3/16 18:29	13886-1.RAW	18:29:13	72.11335227	1	i	71.0	0.244	0.305	ng/L	
Hg2700-1	JRH	SAM	1607380-09	1.25	8/3/16 18:39	13887-1.RAW	18:39:44	212.2560133	1		211.1	0.754	0.943	ng/L	
Hg2700-1	JRH	SAM	1607380-11	1.25	8/3/16 18:50	13888-1.RAW	18:50:14	7.321117424	1		6.2	0.008	0.009	nq/L	
Hq2700-1	JRH	SAM	1607380-13	1.25	8/3/16 19:00	13889-1.RAW	19:00:45	260.697017	1		259.6	0.931	1.163	ng/L	
Hq2700-1	JRH	SAM	1607586-01	1.25	8/3/16 19:11	13890-1.RAW	19:11:16	93.24045928	1		92.1	0.321	0.401	ng/L	
Hq2700-1	JRH	SAM	1607586-02	1.25	8/3/16 19:21	13891-1.RAW	19:21:46	83.7273911	1		82.6	0.286	0.357	nq/L	
Hq2700-1	JRH	SAM	1607586-03	1.25	8/3/16 19:32	13892-1.RAW	19:32:17	102.3475379	1		101.2	0.354	0.442	ng/L	
Hq2700-1	JRH	SAM	1607586-04	1.25	8/3/16 19:42	13893-1.RAW	19:42:48	60.40610795	1		59.3	0.201	0.251	ng/L	\
Hq2700-1	JRH	SAM	1607586-05	1.25	8/3/16 19:53	13894-1.RAW	19:53:18	175.4268466	1		174.3	0.620	0.775	ng/L	
Hg2700-1	JRH	SAM	1607586-06	1.25	8/3/16 20:03	13895-1.RAW	20:03:49	67.17642045	1		66.0	0.226	0.282	ng/L	
Hg2700-1	JRH	CAL	SEQ-CCV3		8/3/16 20:14	13896-1.RAW	20:14:20	212.7756155			211.6	0.620	0.620	ng/L	
Hq2700-1	JRH	CAL	SEQ-CCB3	i	8/3/16 20:24	13897-1.RAW	20:24:51	0.732244318			-0.4	-0.001	-0.001	ng/L	

MethylMercury EPA1630	Operat: JH Workst MHg270				Conc = (Area- OK,1 Warnings		Run Date: Run Time:			0								
	Methoc 2010-03	! R;	0.9974		0.994758304		CalibAnah f		CF SD:	41.26237843								
complete an inch	Descrip MHg270				مفتاندها وواوا والمتانات	onicia dine.		a Mahar Kasabasa	CF RSD%:	12.096641	- Name and State of S	on in the second	a	di digita se eli ince	erodanetiska nesetanosetiska	eriya sa san	au en avesta	one many adaptar
Sample/ID Clean	Location Rinse	ONUTE 33.	жапк. О	(Loncingu(p)	0.005125966 0.005125966		CONCERNING(F. I	CC%		RawData 13852-1.RAW	RunEnd 12:31:48				PeakPrHg(Rav Cont		Flags	RunCount
ws	A1	1	U		0.003123300	0.0071551				13853-1.RAW		3 2.356297348		2.454279303 2.131723485	0 clear	•	CT	1
SEQ-IBL1	A2	1	n	0.0446581	0.003308505	n nganbas				13854-1.RAW		15.23314394			0 psan 0 psan		OK OK	
SEQ-CAL1	A3	1	_	0.0723973				81.80		13855-1.RAW		25.82372159			0 psan		OK	1
SEQ-CAL2	A4			0.2262552		0.0734999		98.25		13856-1.RAW		78.30556345			0 psan	•	OK	1
SEQ-CAL3	A5			0.8378847				104.37		13857-1.RAW		286.936121			0 psan	•	CT	
SEQ-CAL4	A6			1.6632228				115.22		13858-1.RAW		568.4639584			0 psan	•	CT	1
SEQ-CALS	A7			3.8553949				100.36		13859-1.RAW		3 1316.227217			0 psan		CT	1
SEQ-ICV1	A8			3.1131512	0.55292591			110.72		13860-1.RAW		1063.043371			0 psan		CT	1
SEQ-1CB1	A9			0.0751982				0.00		13861-1.RAW		26,77911932			0 psarr	-	OK	1
F608139-BLK1	A10			0.0687334				0.00		13862-1.RAW		19.88484848			0 psam		OK	
F608139-8LK2	A11			0.0641315		0.1858911				13863-1.RAW		18.62907197			0 psam		CT	1
F608139-8LK3	A12			0.0579693						13864-1.RAW		16.94749053			0 psam	•	CT	1
F608139-BS1	A13			0.1303764	1.676510573					13865-1.RAW		36.70630063			0 psam	•	CT	1
F608139-8SD1	A14		1.1286	0.302872						13866-1.RAW		83.77774621			0 psam		CT	1
F608139-DUP1	A15		1.1286	0.188072						3B67-1.RAW		52.45054531			0 psam	•	CT	
F608139-MS1	A16		1.1286	0.20743				61.02		3868-1.RAW		57.73304924			0 psam		OK	1
F608139-MSD1	A17			0.2120814				01.02		3869-1.RAW		59.00234375			0 psam		CT	1
F608139-MS2	A18		1.1286	0.141888	1.954533426			97.73		3870-1.RAW		39.84763258			0 psam	•	СТ	1
F608139-MSD2	A19			0.1648639	1.663743038			37.113		3871-1.RAW		46.11742424			0 psam	•	ст	1
SEQ-CCV1	A20			3.0796534	0.537720877			107.68		.3872-1.RAW		1051.617058			0 psam		CT	1
SEQ-CC81	A21			0.061649				0.00		.3873-1.RAW		22.15738636			0 psam		OK	1
1607159-01	B1			0.2388019	0.019632752			0.00		3874-1.RAW		66.29397598			0 psam		CT	1
1607339-01	82		1.1286	-	0.126128332					3875-1.RAW		30.73465909			0 psam		ст	1
1607339-02	В3			0.1317867	0.118789518					3876-1.RAW		37.09115193			0 psam		OK	1
1607339-03	84			0.1071939	0.028931199					3877-1.RAW		30.38013731			0 psam		OK	i
1607339-04	B5			0.1092044	0.03395668					3878-1.RAW		30.92878788			0 psam		CT .	1
1607339-05	86			0.0732221	0.016895012					3879-1.RAW		21.10975379			0 psam		OK	1
1607339-06	87			0.052418	0.036503039					3880-1.RAW		15.43262311			0 psam		OK	1
1607380-01	88			0.0603191	0.117894028					3881-1.RAW		17.58870739			0 psam		CT	1
1607380-03	B9			0.0911874	0.15467347					3882-1.RAW		26.01221591			0 psam		OK	i
1607380-05	B10			0.0919701	0.198208383					3883-1.RAW		26.22580492		45.665625	0 psam		OK	î
SEQ-CCV2	B11			3.0079083	0.546464991			109.43		3884-1.RAW		1027.144363		-	0 psam		CT	1
SEQ-CC82	B12			0.0571566	0.003772959			0.00		3885-1.RAW	18:18:42		2.415530303		0 psam		ст	1
1607380-07	B13	1.25	1.1286	0.1156117	0.26012729					3886-1.RAW		32.67722538			0 psami		OK	1
1607380-09	814	1.25	1.1286	0.2060908	0.77370205	0.1737884			1	3887-1.RAW		57.36761364			0 psami		СТ	1
1607380-11	B15	1.25	1.1286	0.0562061	0.022692963				1	3888-1.RAW		16.46633523			0 psami		OK	1
1607380-13	B16	1.25	1.1286	0.1940778	0.952535865	0.2162216				3889-1.RAW		54.08944129			0 psami		cī	1
1607586-01	B17	1.25	1.1286	0.2696265	0.337548612	0.4668419				3890-1.RAW		74.70553977			0 psami		cī	1
1607586-02	B18			0.1829547	0.302670676					3891-1.RAW		51.05411541			0 psamo		cī	1
1607586-03	819	1.25	1.1286	0.114771	0.370921949					3892-1.RAW		32.44782197			0 psami		cī	1
1607586-04	B20	1.25	1.1286	0.0701619	0.217225519	0.294747				3893-1.RAW		20.27466856			0 psami		cī	1
1607586-05	B21	1.25	1.1286	0.3364637	0.642106825					3894-1.RAW		92.94441288			0 psami		ä	1
1607586-06	C1	1.25	1.1286	0.2224204	0.242035661					3895-1.RAW		61.82372159			0 psamp		cī	1
SEQ-CCV3	C2	1	1.1286	3.0707294	0.621568328	0.4282913		124.47		3896-1.RAW		1048.573025			0 psamp		cī	1
SEQ-CCB3	C3	1	1.1286	0.0514753	-0.001161829	0.0864285		0.00		3897-1.RAW		18.68707386			0 psamp		OK	1

MethylMercury EPA1630	Operate 3H Worksh MHq27				Conc = (Area- OK,1 Warnings		Run Date: #### Run Time: 12:26:									
L1 M2030	Methoc 2010-0		0.9974		0.994758304		CalibAnaly MeHg	CF SD:	41.26237843							
eta martina anno 1860 866	Descrip MHg27			المراجعة المتعادمة	sieletaki englesetak	. Managaran da san da	oenoneavisi e oak 188	CF RSD%			in in its and a second	nu	South on the Committee's	esa com na casa, casa o	ora in the transfer of	series in
Sample/ID	Location Rinse	Daute	enank :				ConcPrHg(r.Rec%	QA	RawData Ru 13852-1.RAW				PeakPrHg(Rav Co		Flags	RunCount
Clean			U		0.005125966	0.0071951						2.454279303		andry	CT Off	1
WS CEO IBI 1	A1	,		0.0441301	0.002200505	0.000000			13853-1.RAW	2.356297348		2.131723485		ample 10	OK	1
SEQ-IBL1	A2	1		0.0441291			01.00		13854-1.RAW			27.29547822	•	ample10	OK	1
SEQ-CAL1	A3			0.0723973					13855-1.RAW			23.93068182		ampie10	OK	1
SEQ-CAL2	A4			0.2262552		0.0734999			13856-1.RAW		68.15767045			ample 10	OK .	1
SEQ-CAL3	A5			0.8378847					13857-1.RAW		357.1339015		•	ample10	с т	1
SEQ-CAL4	A6			1.6632228			115.22		13858-1.RAW		787.1754261			ample10	CT	1
SEQ-CAL5	A7			3.8553949	4.01453549		100.36		13859-1.RAW		1370.511032		•	emple10	CT	1
SEQ-ICV1	A8			3.1131512	0.55292591		110.72		13860-1.RAW		189.7349432			emple10	CT	1
SEQ-IC81	A9			0.0751982			0.00		13861-1.RAW		5.064962121			ample10	OK	1
F608139-BLK1	A10			0.0687334					13862-1.RAW		4.969152462		•	ample10	OK	1
F608139-BLK2	A11			0.0641315		0.1868911			13863-1.RAW		5.104592803		•	ample10	СТ	1
F608139-BLK3	A12			0.0579693					13864-1.RAW		5.687973485			mpie10	CT	1
F608139-BS1	A13			0.1303764	1.676510573				13865-1.RAW		458.6229167			mple10	CT	1
F608139-8SD1	A14		1.1286						13866-1.RAW		449.7125237			mple10	CT	1
F608139-DUP1	A15		1.1286	0.188072	-				13867-1.RAW		43.78709754			mple10	CT	1
F608139-MS1	A16		1.1286	0.20743			61.02		13868-1.RAW		167.6531723		•	mple10	OK	1
F608139-MSD1	A17			0.2120814					13869-1.RAW		154.4326468		0 psa	mple10	CT	1
F608139-MS2	A18		1.1286				97.73		13870-1.RAW	39.84763258	534.4974432	51.59648188	0 psa	mple10	СТ	i
F608139-MSD2	A19			0.1648639	1.663743038				13871-1.RAW	46.11742424	455.1388494	45.73745265	saq 0	mple10	ст	1
SEQ-CCV1	A20			3.0796534			107.68		13872-1.RAW	16:02:04 1051.617058			0 psa	mpie10	ст	1
SEQ-CCB1	A21		1.1286		0.018291167	0.0979483	0.00		13873-1.RAW	22.15738636	7.367779356	34.53932292	0 psa	mple10	OK	1
1607159-01	B1			0.2388019	0.01962425				13874-1.RAW		6.483712121		0 psa	mple10	CT	1
1607339-01	B2	1.25	1.1286	0.108493	0.126122086	0.2980436			13875-1.RAW	30. 7 3465 909	35.54535985	82.46013297	0 psa	imple10	ст	i
1607339-02	B3	1.25	1.1286	0.1317867	0.118789518	0.3008618			13876-1.RAW	37.09115193	33.54441288	83.22919508	0 psa	mple10	OK	1
1607339-03	84	1.25	1.1286	0.1071939	0.028931199	0.1210302			13877-1.RAW	30.38013731	9.0234375	34.15587121	0 psa	mple10	OK	1
1607339-04	B5	1.25	1.1286	0.1092044	0.033942192	0.0910659			13878-1.RAW	30.92878788	10.39086174	25.97906097	0 psa	mple10	CT	1
1607339-05	B6	1.25	1.1286	0.0732221	0.016895012	0.0688302			13879-1.RAW	21.10975379	5.738944129	19.91126894	0 psa	mple10	OK	1
1607339-06	B7	1.25	1.1286	0.052418	0.036503039	0.1765419			13880-1.RAW	15.43262311	11.08967803	49.30416667	0 psa	mple10	OK	1
1607380-01	B8	1.25	1.1286	0.0603191	0.117894028	0.2131962			13881-1.RAW	17.58870739	33.30004735	59.30656013	0 psa	mple10	CT	1
1607380-03	B9	1.25	1.1286	0.0911874	0.15467347	0.1365208			13882-1.RAW	26.01221591	43.33660038	38.38300189	0 psa	mpłe10	OK	1
1607380-05	B10	1.25	1.1286	0.0919701	0.198208383	0.1632083			13883-1.RAW	26.22580492	55.21661932	45.665625	0 psa	mple10	OK	1
SEQ-CCV2	B11	1	1.1286	3.0079083	0.546464991	0.3742573	109.43		13884-1.RAW	1027.144363	187.5310843	128.7899968	0 psa	mple10	CT	1
SEQ-CCB2	812	1	1.1286	0.0571566	0.001485808	0.1150129	0.00		13885-1.RAW	20.625	1.635369318	40.36015112	0 psa	mple10	ст	1
1607380-07	B13	1.25	1.1286	0.1156117	0.26012729	0.1420437			13886-1.RAW	32.67722538	72.11335227	39.89012784	0 psa	mple10	OK	1
1607380-09	B14	1.25	1.1286	0.2060908	0.773686955	D.1737884			13887-1.RAW	57.36761364	212.2560133	48.55277304	0 psa	mple10	ст	1
1607380-11	B15	1.25	1.1286	0.0562061	0.022692963	0.1465461			13888-1.RAW	16.46633523	7.321117424	41.11877367	0 psa	mpie10	OK	1
1607380-13	816	1.25	1.1286	0.1940778	0.951201393	0.2162216			13889-1.RAW	54.08944129	260.697017	60.13214962	•	mple10	CT	1
1607586-01	817	1.25	1.1286	0.2696265	0.337548612	0.4668419			13890-1.RAW	74.70553977	93.24045928	128.5226326	•	mple10	CT	1
1607586-02	818	1.25	1.1286	0.1829547	0.302687506	0.233434			13891-1.RAW	51.05411541	83.7273911	64.82916667	0 psa	mple10	ст	1
1607586-03	B19			0.1218764	0.370921949				13892-1.RAW		102.3475379			mple10	сī	1
1607586-04	820			0.0701619	0.217225519				13893-1.RAW	20.27466856				mple10	CT	1
1607586-05	B21			0.3364637	D.638724665				13894-1.RAW	92.94441288			•	mple10	CT	1
1607586-06	Ci			0.2224204	0.242035661				13895-1.RAW	61.82372159			•	mple10	CT	1
SEQ-CCV3	C2			3.0707294	0.62047285		124.25		13896-1.RAW	1048.573025			•	mple10	СТ	1
SEQ-CCB3	C3				-0.001161829		0.00		13897-1.RAW	20:24:51 18.68707386			•	mple10	OK	1
6		-		J. 3 J. 17 J.J	J.00110102J		0.00		*****	23.2 10.007 07300	O., WELFILL	55.70 (E3E33	υ psa	p.c.ro	···	

Failing Data Report - 6H03012

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Over Cal Limit	Failure	Qualifier
F608139-BS1	MHg-CVAFS-W-Dist	1.835	0.050	,		1.0010	ng/L	183	70.00	130.00		PASS-OVER	FAIL-BS	QM-12
F608139-BSD1	MHg-CVAFS-W-Dist	1.799	0.050	1.835		1.0010	ng/L	180	70.00	130.00	1.98	25.00 PASS-OVER	FAIL-BSD (Rec.)	QM-12
F608139-MSD1	MHg-CVAFS-W-Dist	0.604	0.050	0.657	ND	1.0010	ng/L	60.3	65.00	130.00	8.49	35.00 PASS-OVER	FAIL-MSD (Rec.	.M -07
F608139-MS2	MHg-CVAFS-W-Dist	2.143	0.050		0.154	1.0010	ng/l.	199	65.00	130.00		PASS-OVER	FAIL-MS	am-07
F608139-MSD2	MHg-CVAFS-W-Dist	1.821	0.050	2.143	0.154	1.0010	ng/L	167	65.00	130.00	16.2	35.00 PASS-OVER	FAIL-MSD (Rec.)	an-07

Analyst Reviewed By

الا Date fred

Peer Reviewed By

8/4/16

Date

ANALYSIS SEQUENCE

6H03012

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/3/2016

Canbration ID.	UNASSIGNED		T		Analyzed: 8/3/2016
Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6H03012-IBL1	QC	1			
6H03012-CAL1	QC	2	1604163		
6H03012-CAL2	QC	3	1604164		
6H03012-CAL3	QC.	4	1604165		
6H03012-CAL4	QC	5	1604166		
6H03012-CAL5	QC	6	1604167		
6H03012-ICV1	QC	7	1603001		
6H03012-ICB1	QC	8			
F608139-BLK1	QC	9			
F608139-BLK2	QC	10			
F608139-BLK3	QC	11			
F608139-BS1	QC	12			
F608139-BSD1	QC	13			
F608139-DUP1	QC	14		<u></u>	
F608139-MS1	QC	15			
F608139-MSD1	QC	16			
F608139-MS2	QC	17			
F608139-MSD2	QC	18			
6H03012-CCV1	QC	19	1603001		
6H03012-CCB1	QC	20			
1607159-01	MHg-CVAFS-W-Dist	21			
1607339-01	MHg-CVAFS-W-Dist	22			Scan all data for level IV report
1607339-02	MHg-CVAFS-W-Dist	23			Sean all data for level IV report
1607339-03	MHg-CVAFS-W-Dist	24			Scan all data for level IV report
1607339-04	MHg-CVAFS-W-Dist	25			Scan all data for level IV report
1607339-05	MHg-CVAFS-W-Dist	26			Scan ail data for level IV report
1607339-06	MHg-CVAFS-W-Dist	27			Scan all data for level IV report
1607380-01	MHg-CVAFS-W-Dist	28			Scan all data for level IV report
1607380-03	MHg-CVAFS-W-Dist	29			Scan all data for level IV report
1607380-05	MHg-CVAFS-W-Dist	30			Scan all data for level IV report
6H03012-CCV2	QC	31	1603001		
6H03012-CCB2	QC	32			
1607380-07	MHg-CVAFS-W-Dist	33			Scan all data for level IV report
1607380-09	MHg-CVAFS-W-Dist	34			Scan all data for level IV report
1607380-11	MHg-CVAFS-W-Dist	35			Scan all data for level IV report

Due Date: 8/4/2016

ANALYSIS SEQUENCE

6H03012

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/3/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1607380-13	MHg-CVAFS-W-Dist	36			Scan all data for level IV report
1607586-01	MHg-CVAFS-W-Dist	37			Scan all data - Level IV
1607586-02	MHg-CVAFS-W-Dist	38			Scan all data - Level [V
1607586-03	MHg-CVAFS-W-Dist	39			Scan all data - Level IV
1607586-04	MHg-CVAFS-W-Dist	40			Scan all data - Level IV
1607586-05	MHg-CVAFS-W-Dist	41			Scan ail data - Level [V
1607586-06	MHg-CVAFS-W-Dist	42			Scan all data - Level IV
6H03012-CCV3	QC	43	1603001		
6H03012-CCB3	QC	44			

8/4/16 Date Londer 8/3/16 Oit

Due Date: 8/4/2016

F608139

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/2/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608139-BLK1	Blank	45	40					
F608139-BLK2	Blank	45	40					
F608139-BLK3	Blank	45	40					
F608139-BS1	Blank Spike	45	40	1603908	45			
F608139-BSD1	Blank Spike Dup	45	40	1603908	45			
F608139-DUP1	Duplicate [1607339-01]	45	40					
F608139-MS1	Matrix Spike [1607159-01]	45	40	1603908	45			
F608139-MS2	Matrix Spike [1607380-03]	45	40	1603908	45			
F608139-MSD1	Matrix Spike Dup [1607159-01]	45	40	1603908	45			
F608139-MSD2	Matrix Spike Dup [1607380-03]	45	40	1603908	45			

Standard ID(s):

Description:

1603908 MHg New Primary 1.0 ng/mL CAL Expiration:

19-Oct-16 00:00

Reagent ID(s):

1602604

Description: Acetate Buffer

Expiration:

15-Nov-16 00:00

1602944

Ethylating Agent (For Methyl Mercury Analysis)

30-Nov-16 00:00

1604260 1604261

APDC

0.5% Distillation Dilute (Made Daily)

29-Jan-17 00:00

1604286

2.5% Ascorbic Acid

10-Aug-16 00:00

e Date: 8/4/2016

F608139

Eurofins Frontier Global Sciences, Inc.

Matrix: Water Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/2/2016

Lab Number	Sample ID	lnitial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607159-01	EFF-001 Grab	45	40	QC	-	-	MS/MSD	
1607339-01	OL-2431-01	45	40	-	-	-	Scan all data for level IV report	
1607339-02	OL-2431-02	45	40	_	-	-	Scan all data for level IV report	
1607339-03	OL-2431-03	45	40	-	-	-	Scan all data for level IV report	
1607339-04	OL-2431-04	45	40	-	-	-	Scan all data for level IV report	
1607339-05	OL-2431-05	45	40	-	-	-	Scan all data for level IV report	
1607339-06	OL-2431-06	45	40	-		-	Scan all data for level IV report	***************************************
1607380-01	NMC-5240-00	45	40	-	-	-	Scan all data for level IV report	
1607380-03	NMC-5240-01	45	40	QC	+	-	MS/MSD Scan all data for level IV repo	
1607380-05	NMC-5240-02	45	40	-	-	-	Scan all data for level IV report	**************************************
1607380-07	NMC-5240-03	45	40	-	-	-	Scan all data for level IV report	
1607380-09	NMC-5240-04	45	40	-	-		Scan all data for level IV report	
1607380-11	NMC-5240-05	45	40		-	-	Scan all data for level IV report	
1607380-13	NMC-5240-06	45	40	-	-	-	Scan all data for level IV report	
1607586-01	1523 OV-02_071816_SW_10	45	40	*	-	-	Scan all data - Level IV	
1607586-02	1523 OV-02_071816_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	
1607586-03	1524 WQ1b-c_071816_SW_10	45	40	-	~	-	Scan all data - Level IV	
Page 1586-04	1524 WQ1b-c_071816_SW_10 Dissolved	45	40	•	-	-	Scan all data - Level IV	
7586-04 Page 115 of 4	1525 WQ2-c_071816_SW_I0	45	40	-	-	-	Scan ali data - Level IV	
<u> </u>]				

PREPARATION BENCH SHEET

F608139

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/2/2016

1607586-06	1525 WQ2-c_071816_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	
1		1		1		1 .		



Page 116 of 463 e Date: 8/4/2016

8/3/16 OH 27007

F608139

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

6H0301Z

Prepared: 8/2/2016

T								<u> </u>
Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608139-BLK1	Blank	45	40					1.25
F608139-BLK2	Blank	45	40					1:55
F608139-BLK3	Blank	45	40					1-25
F608139-BS1	Blank Spike	45	40	1603908	45			1.25
F608139-BSD1	Blank Spike Dup	45	40	1603908	45			1.25
F608139-DUP1	Duplicate [1607339-01]	45	40					1.25
F608139-MS1	Matrix Spike [1607159-01]	45	40	1603908	45			1.25
F608139-MS2	Matrix Spike [1607380-03]	45	40	1603908	45		*****	1.25
F608139-MSD1	Matrix Spike Dup [1607159-01]	45	40	1603908	45		******	1.25
F608139-MSD2	Matrix Spike Dup [1607380-03]	45	40	1603908	45			1.25

Standard ID(s): 1603908

Description:

MHg New Primary 1.0 ng/mL CAL

Expiration:

19-Oct-16 00:00

Reagent ID(s):

Description:

APDC

0.5% Distillation Dilute (Made Daily)

Expiration:

29-Jan-17 00:00

1602944

1604260

1604261

1604586

Date: 8/4/2016

PREPARATION BENCH SHEET

F608139

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/2/2016

		Initial	Final	QC Sample	Sample Specs.	Raw Data		
Lab Number	Sample ID	(mL)	(mL)	Sample	spas.	Data	Sample Comments	Analysis Comments
1607159-01	EFF-001 Grab	45	40	QC	-	-	MS/MSD	1.25
1607339-01 5	OL-2431-01	45	40	-	-	-	Scan all data for level IV report	1.25
1607339-02 6	OL-2431-02	45	40	-	-		Scan all data for level IV report	1.21
1607339-03	OL-2431-03	45	40	-	-	-	Scan all data for level IV report	125
1607339-04	OL-2431-04	45	40	-	-		Scan all data for level IV report	125
607339-05	OL-2431-05	45	40		-	-	Scan all data for level IV report	1.25
607339-06	OL-2431-06	45	40	-	_	-	Scan all data for level IV report	1.25
607380-01 •-	NMC-5240-00	45	40	٠	-		Scan all data for level IV report	1.25
607380-03 g	NMC-5240-01	45	40	QC	-	-	MS/MSD Scan all data for level IV repo	1.25
607380-05	NMC-5240-02	45	40	-	-	-	Scan all data for level IV report	1.25
607380-07	NMC-5240-03	45	40	-	-	-	Scan all data for level IV report	1.25
607380-09 ,	NMC-5240-04	45	40	-	-	٠	Scan all data for level IV report	1.25
607380-11	NMC-5240-05	45	40	-	-	-	Scan all data for level IV report	1.25
607380-13 9	NMC-5240-06	45	40	-	-	-	Scan all data for level IV report	1-25
607586-01 •	1523 OV-02_071816_SW_10	45	40	-	-	-	Scan all data - Level IV	125
607586-02 ;	1523 OV-02_071816_SW_10 Dissolved	45	40	-		-	Scan all data - Level IV	1.25
607586-03	1524 WQ1b-c_071816_SW_10	45	40	-	-	-	Scan all data - Level IV	1.25
ව 586-04 ,	1524 WQ1b-c_071816_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	1.25
1 0 0 0, 586-05 '	1525 WQ2-c_071816_SW_10	45	40	-	-	-	Scan all data - Level IV	1-25

PREPARATION BENCH SHEET

F608139

Eurofins Frontier Global Sciences, Inc.

Matrix: Water Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/2/2016

1607586-06 : 1525 WQ2-c_071816_SW_10 Dissolved 45 40 - - - Scan all data - Level IV 1-25

Page 119 of 463

Date: 8/4/2016

Methyl Mercury Distillations (EPA 1630)

Name:	Duyen	Date: 8-2-16	Batch #: F608139	Sample Matrix: Water
WO#: _	1667159,	1607339.		7542 1607586

The pH of the preserved sample must be documented before an aliquot is removed for preparation.

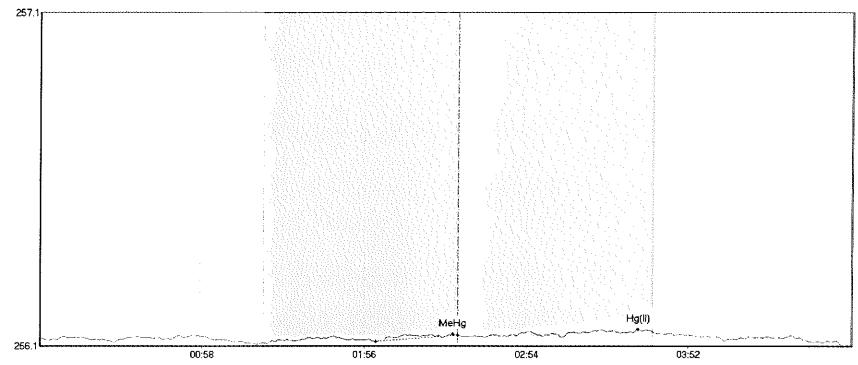
		-	Marinian and Control of the Control			ed for preparation.
Digest #	Sample ID No	umber	Preserved pH	Sample Size (mL)	Final pH (≥3)	
Blk!	F608139	Blank 1	1.0	45	3.0	
13/K2	F608139	Blank 2	1.0	45	3.0	Spike ID: 1603908
Blk3	F608139	Blank?	1.0	45	3-0	Spike Amount: 45 µL
BS	F608139	135	1.0	45	7.0	Spike Witness: CM 8.2-16
BSO	F608/39	BSD	10	45	3.0	Balance #: 2
Dug	F608139	Dup	100	45	400	Calibrated? ☑Yes ☐ No
MSI	F608/39	M5/	1.0	45	4.0	0:
14501	F60B139	MSO1	ر-/	45	4-0	Pipette #: <u>CJ/7087</u> Cal. Date: <u>6/2//6</u>
MSZ	F608139	MS2	100	45	4.0	- Jones
MSDZ	F608/39	MSOL	1.0	45	4-0	Pipette #: <u> </u>
	1607159-	0/B	ر. ان /	45	4-0	Cal. Date: 7/29/16
2	1607339-	011 B	1.5	45	4.0	Pipette #:
3	1607379.	-02 B	1.0	45	4-3	Cal. Date: 7/29/16
4	1607339.	-03 B	1-0	45	4-0	
5	1607339	-04B	1.0	45	4.0	APDC ID: 160 4260
6	1607339	05 B	/-s	45	4.0	HCI ID: 160 426/
7	1607339	-06 B	/. 3	45	4=0	Temperature: No set range as
l d	1607380-	OIB	/.5	45	400	the temp. may be changed to
9	1607380	-03B	100	45	4-0	keep flow rate of ≥10 mL per
10	1607380	-0-B	/٠٥	45	400	hour. Temperature is recorded
1/	1607380	-07B	100	45	4.0	for informational purposes only.
12	1607280	-09 B	100	45	4.0	Unit 1: / 200, 9
13	1607380	-11 B	1-0	45	400	Unit 2:
14	1607386	-13 B	1-0	45	y= 0	Unit 3: /20.5
15	1607586	-01B	100	45	۲.	Unit 4: / 20.4
16	1607586		100	45	4.0	Unit 5: / 2 2 ·
17	1607586	-03 B	10	45	4.0	
18	1607586	-04B	1.5	45	4-0	Unit 6:
19	1607586	105 B	100	45	4.0	
20	1607586	-06B	100	45	4.5	Comments:
						1607379-01
						Dup 1607339-01 HS/ HSUT
				P-276	pu	1607/59-01
					, ,	
						MSZ MSDZ
						1607380-03
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

EFGS / Methyl Mercury Distillations / LOG-PR-029.03 / Effective: Aug. 4, 2014 / QA2016-036

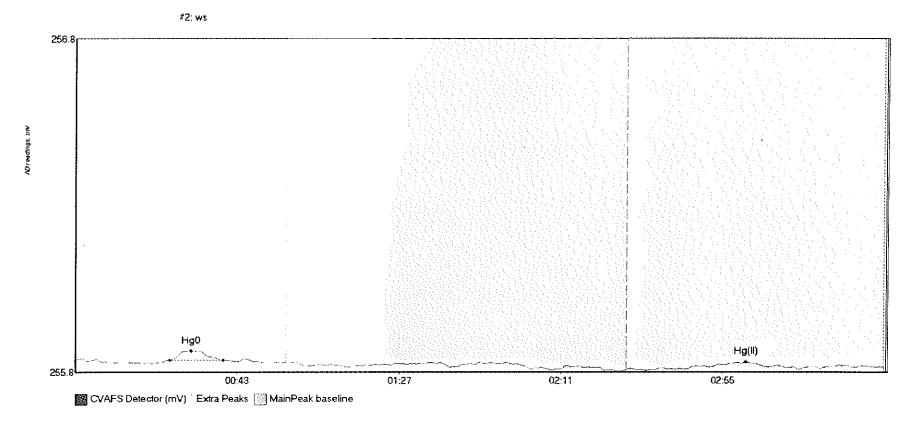
AMB 8-2-16 Verified

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CVAFS Detector (mV) * Extra Peaks 🔯 MainPeak baseline



Name ws HgO ws Hg(II) Area 2.356 2.132

Start Time EndTime 25.7 166.4

40.3 188.3 StartValue EndValue 255.84 255.84 255.81 255.82

Peak Max 31.6 182.3

PeakHeight Flags 0.028 0.021

OK QΚ

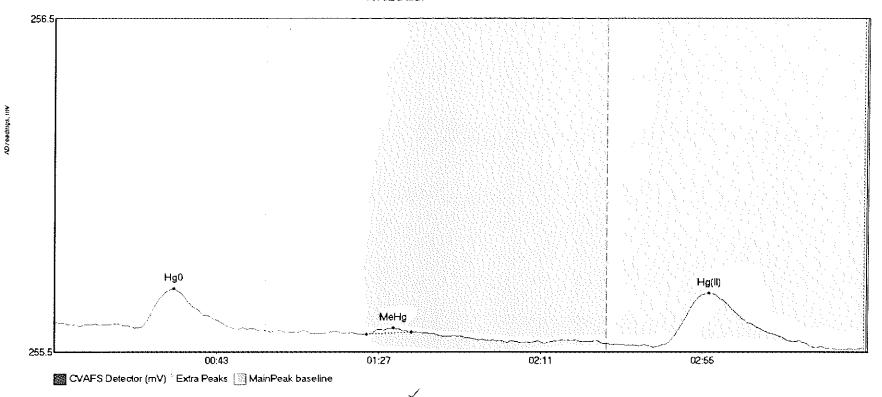
Baseline BlDev 255.8396 255.8396 0.00

0.00

BlShift Comment -0.02 -0.02

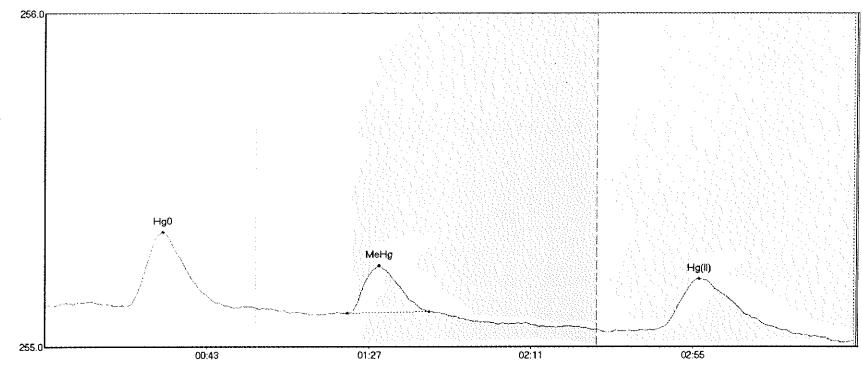
016





Name	Area	Start Time	e EndTime	StartValue	e EndValue	Peak Max	PeakHeigh	nt Flags	Baseline	BlDev	BlShift	Comment	
SEQ-IBL1 Hg0	15.053	22.6	49.5	255.53	255.53	32.3	C.117	OK	255.5483	0.00	-0.08		216
SEQ-IBL1 MeHg	1.129	84.8	96.9	255.51	255.52	92.0	0.019	OK	255.5483	0.00	-0.68		016
SEC-IBLI Ha(II)	27 295	163 3	203.5	255.48	255.49	177.9	0.162	ĠК	255.5483	0.00	-0.08		

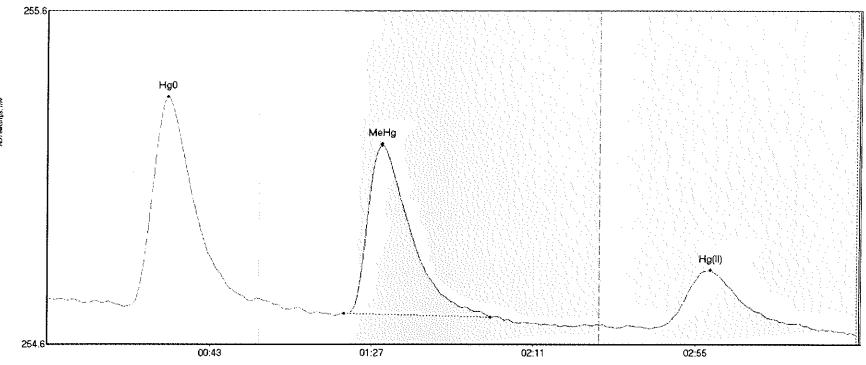
#4: SEQ-CAL1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment	
SEQ-CAL1 Hg0	25.824	22.0	49.1	255.16	255.16	32.0	0.223	OK	255.1644	0.00	-0.11		016
SEQ-CAL1 MeHg	15.079	82.1	104.4	255.14	255.14	90.7	0.143	OK	255.1644	0.00	-0.11		310
SEQ-CAL1 Hg(II)	23.931	166.4	200.6	255.09	255.09	177.7	0.152	OK	255.1644	0.00	-0.11		

#5: SEQ-CAL2

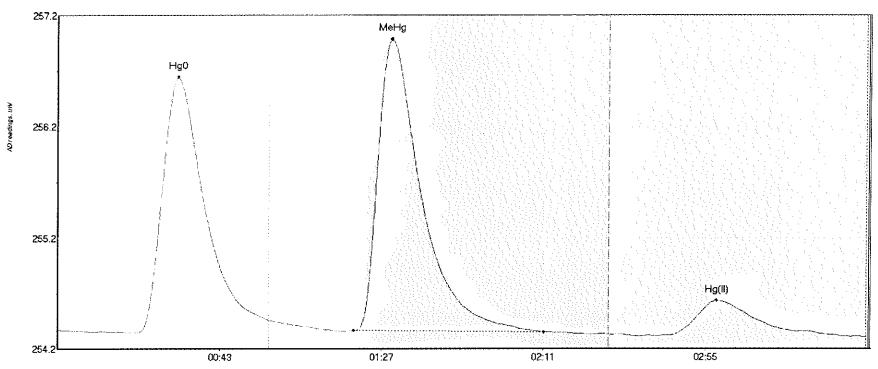


CVAFS Detector (mV) É Extra Peaks MainPeak basefine

Page 125 of 463	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
63	

Name	Area	Start Time	rualime	Startvalue	Endvalue	reak max	reakheight	Flags	Baseilne	Biber	Bishitt	Comment	
SEQ-CAL2 Hg0	78.306	20.7	55.3	254.76	254.78	32.4	0.629	OK	254.7881	0.00	-0.11		216
SEQ-CAL2 MeHg	68.158	80.6	120.3	254.74	254.73	90.8	0.506	OK	254.7881	0.00	-0.11		716
SEQ-CAL2 Hg(II)	26.200	165.4	201.6	254.70	254.71	180.2	0.171	OK	254.7881	0.00	-0.11		





CVAFS Detector (mV) * Extra Peaks | MainPeak baseline

1401110	
SEQ-CAL3	Hg0
SEQ-CAL3	MeHg
SEQ-CAL3	Hg(II)

Area	
286.936	
357.134	
53.216	

:	PeakHeight 2.295 2.623	CT OK
	0.310	OK

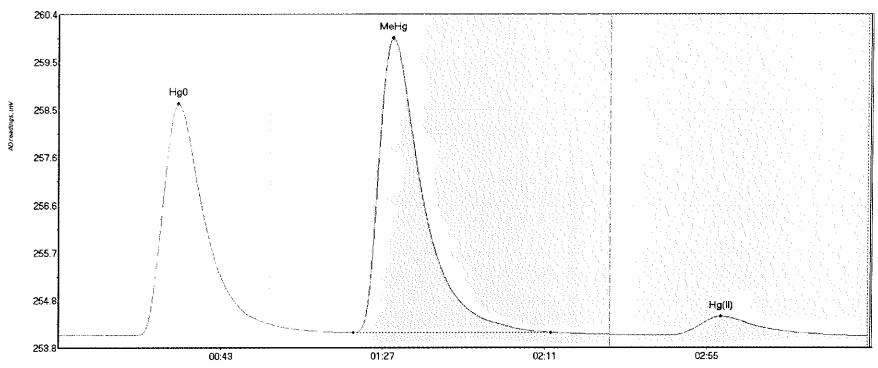
3

Baseline E 254.4138 0 254.4138 0 254.4138

BlDev 0.00 0.00 0.00

-0.06

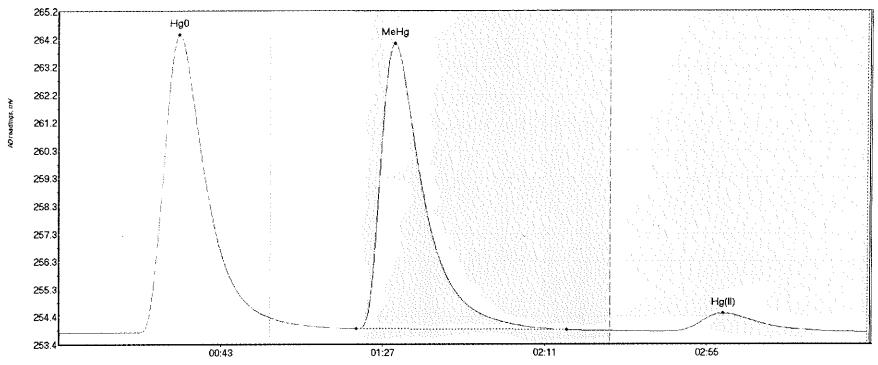




CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Time	: EndTime	StartValue	: EndValue	Peak Max	PeakHeight	t Flags	Baseline	Bibev	BIShift	Comment	
SEQ-CAL4 Hg0	568.464	20.3	57.5	254.08	254.30	32.5	4.561	CT	254.0813	0.00	-0.01		316
SEQ-CAL4 MeHg	787.175	80.2	133.7	254.13	254.13	90.8	5.799	CK	254.0813	0.00	-0.01		310
SEQ-CAL4 Hg(II)	64.185	166.2	210.0	254.08	254.09	179.9	0.367	OK	254.0813	0.00	-0.01		

#8: SEQ-CAL5



CVAFS Detector (mV) * Extra Peaks 💹 MainPeak baseline

Turne	
SEQ-CAL5	Hg0
SEQ-CAL5	MeH
SEQ-CAL5	Hg (

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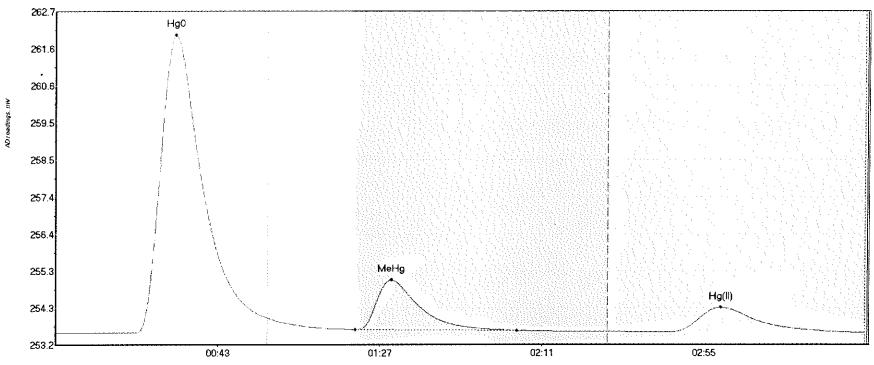
ame		Area	Start Time	EndTime
EQ-CAL5	Hg0	1316.227	21.7	57.5
EQ-CAL5	MeHg	1370.511	80.9	138.0
EO-CAL5	Hq(II)	108.164	166.0	209.4

eak Max 2.9 1.3	PeakHeight 10.541 10.103	CT OK
B0.5	0.636	OK

Baseline 253.8055 253.8055	BlDe 0.00
253.8055 253.8055	0.00

BlShift
-0.01
-0.01
-0.01

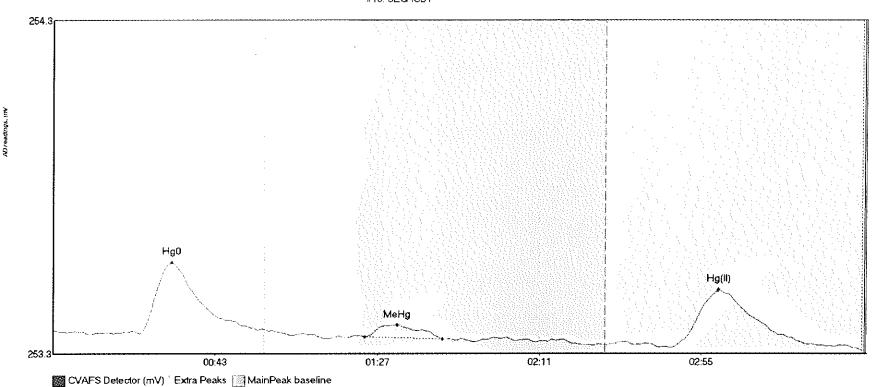
#9: SEQ-ICV1



CVAFS Detector (mV) * Extra Peaks MainPeak baseline

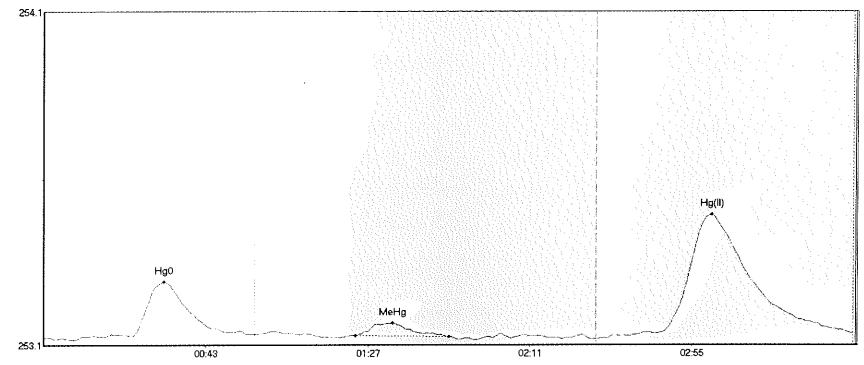
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Name	Area	Start Tim	e EndTime	StartValu	e EndValue	Peak Max	PeakHeig	ht Flags	Baseline	BlDev	BlShift	Comment	
SEQ-ICV1 Hg0	1063.043	20.7	57.5	253.54	253.95	32.6	8.459	CT	253.5486	0.00	-0.01		016
SEQ-ICV1 MeHg	189.735	81.3	125.2	253.62	253.60	91.2	1.418	OK	253.5486	0.00	-0.01		310
SEQ-ICV1 Hg(II)	121.832	166.6	211.7	253.55	253.57	180.6	0.704	OK	253.5486	0.00	-0.01		



Name	Area	Start Tim	e EndTime	StartValu	e EndValue	Peak Max	PeakHeig	ht Flags	Baseline	BlDev	BlShift	Comment	
SEQ-ICB1 Hg0	26.779	23.7	55.6	253.33	253.34	32.3	0.213	OK	253.3372	0.00	-0.06		316
SEQ-ICBl MeHg	5.065	84.6	105.9	253.32	253.31	93.5	0.036	OK	253.3372	0.00	-0.06		210
SEQ-ICB1 Hg(II)	27.620	168.0	204.8	253.29	253.30	180.7	0.172	OK	253.3372	0.00	-0.06		

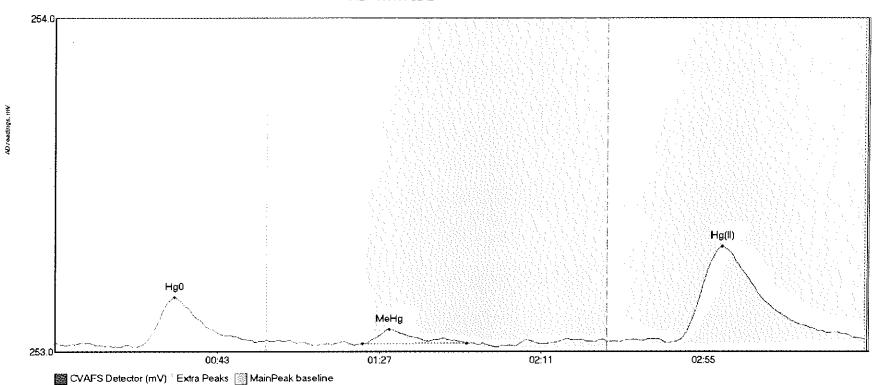
#11: F608139-BLK1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

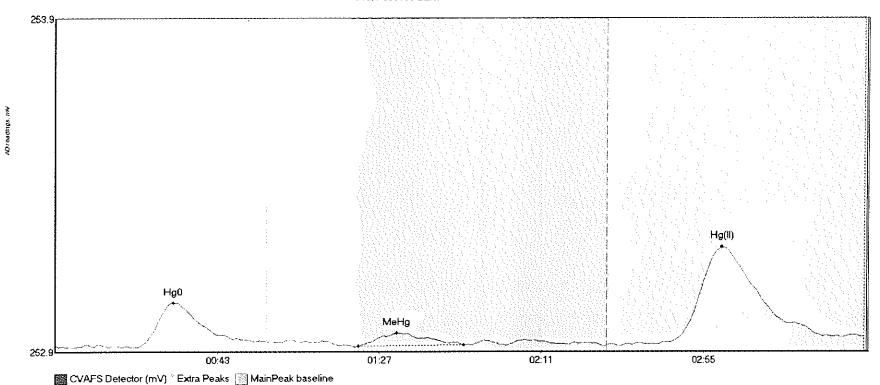
Name	Area	Start Tim	e EndTime	StartValu	e EndValue	Peak Max	PeakHeig	ht Flags	Başelinê	BiDev	BIShift	Comment	
F608139-BLK1 H	q 19.885	23.8	57.2	253.15	253.16	32.6	0.163	OK	253.1468	0.00	0.01		216
F608139-BLK1 M	e 4.969	84.6	110.0	253.15	253.15	94.7	0.039	OK	253.1468	0.00	0.01		310
F608139-BLK1 H	g 70.581	152.7	219.5	253.14	253.16	181.4	0.370	OK	253.1468	0.00	0.01		

#12: F608139-BLK2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F608139-BLK2 Ho	18.629	21.6	54.5	253.03	253.05	32.5	0.151	OK	253.0427	0.00	0.01		016
F608139-BLK2 Me	5.105	83.5	111.8	253.04	253.04	90.7	0.043	OK	253.0427	0.00	0.01		110
E608139-BLK2 Ho	52.128	168.6	219.8	253.05	253.06	181.2	0.284	CT	253.0427	0.00	0.01		

#13: F608139-BLK3

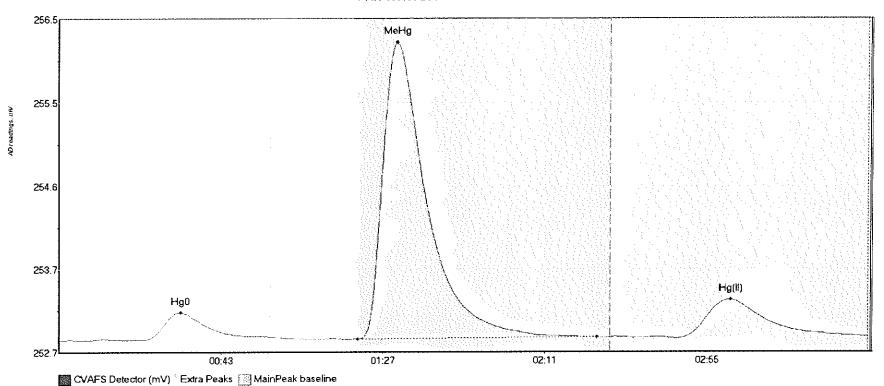


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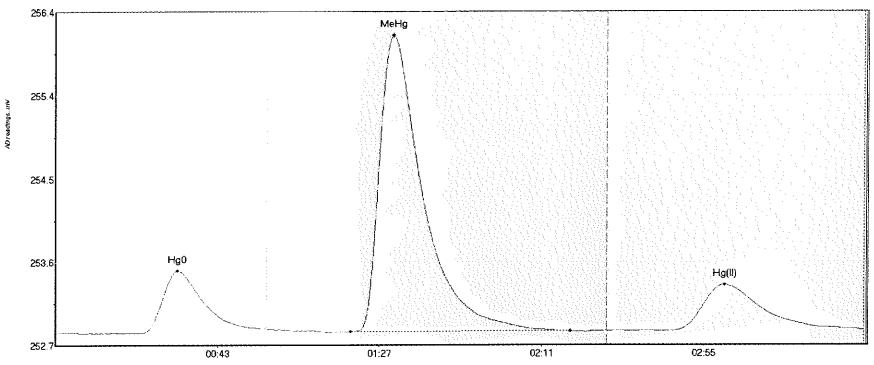
Name	Area	Start Tim	e EndTime	StartValu	e EndValue	Peak Max	PeakHeigl	nt Flags	Baseline	BlDev	BlShift	Comment	
F608139-BLK3 H	q 16.947	22.2	57.5	252.94	252.95	32.0	0.134	CT	252.9411	0.00	0.03		316
F608139-BLK3 M		82.5	110.9	252.94	252.94	92.7	0.039	OK	252.9411	0.00	0.03		310
F608139-BLK3 H	g 50.452	163.6	213.9	252.95	252.97	181.1	0.292	OK	252.9411	0.00	0.03		

#14: F608139-BS1



Name	Area	Start Tim	ne EndTime	StartValue	e EndValue	Peak Max	reakheigh	t Frags	Baseline	BineA	BISHILE	Comment	
F608139-BS1	Hq0 36.706	22.8	57.5	252.85	252.88	33.1	0.308	CT	252.8486	0.00	0.04		016
	MeH 458.623	81.3	146.3	252.86	252.88	91.9	3.347	OK	252.8486	0.00	0.04		210
	Hg(77.373		219.8	252.87	252.89	182.5	0.434	CT	252.8486	0.00	0.04		
	•												

#15: F608139-BSD1



CVAFS Detector (mV) * Extra Peaks MainPeak baseline

Name		Area
F608139-BSD1	Нg	83.778
F608139-BSD1	Me	449.713
F608139-BSD1	Нg	92.440

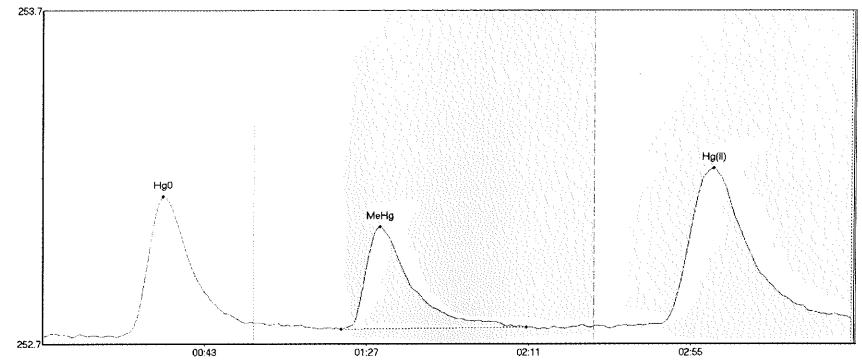
Start	Time	EndTime
22.8		57.5
80.1		139.9
167.8		219.7

tartValue	EndValue
52.79	252.B3
52.80	252.81
52.81	252.82

Peak Max	PeakHeight	Flag
33.2	0.697	CT
91.9	3.302	OK
181.7	0.511	OK

Baseline 252.7996	BlDev 0.00
252.7996	0.00
252.7996	0.00

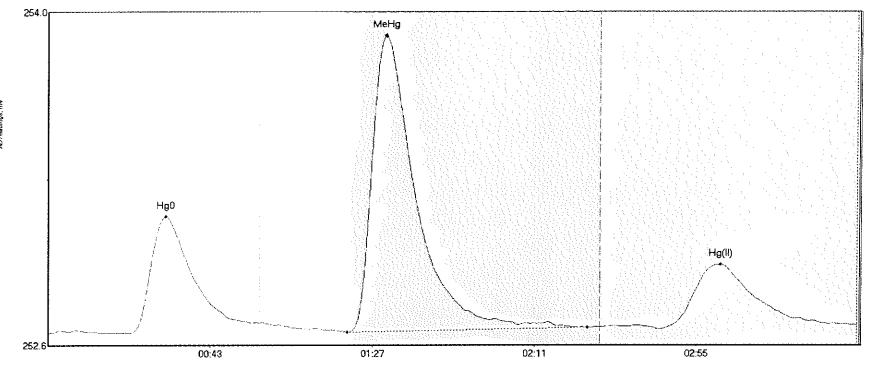
#16: F608139-DUP1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F608139-DUP1 Hg	52.451	20.2	55.5	252.71	252.76	32.9	0.422	OK	252.7172	0.00	0.06		016
F608139-DUP1 Me	43.787	81.2	131.4	252.74	252.74	91.8	0.309	OK	252.7172	0.00	0.06		210
F608139-DUP1 Hg	83.414	167.7	219.8	252.75	252.77	182.2	0.468	CT	252.7172	0.00	0.06		
3													

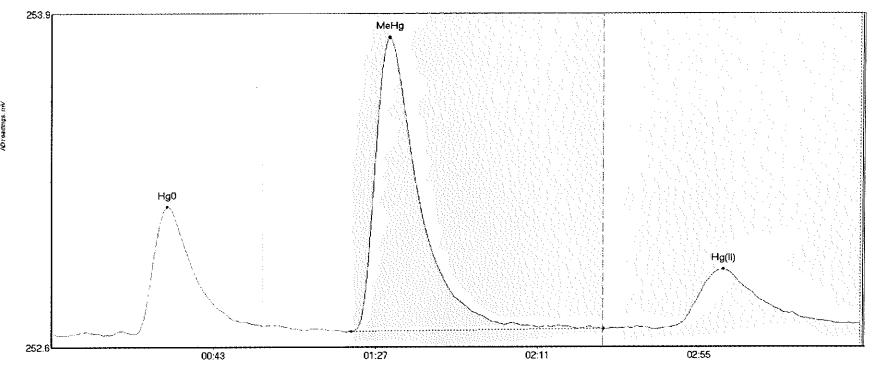
#17; F608139-MS1



CVAFS Detector (mV) * Extra Peaks MainPeak baseline

Name	Area	Start Time	e EndTime	StartValue	e EndValue	Peak Max	PeakHeight	: Flags	Baseline	Biber	BISUILE	Comment	
F608139-MS	1 Hg0 57.733	22.1	55.4	252.68	252.73	31.8	0.477	OK	252.6856	0.00	0.03		016
F608139-MS	1 MeH 167.653	81.1	146.4	252.69	252.71	91.8	1.207	OK	252.6856	0.00	0.03		310
F608139-MS	1 Hg(47.555	167.2	219.6	252.70	252.72	182.6	0.260	OK	252,6856	0.00	0.03		

#18: F608139-MSD1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

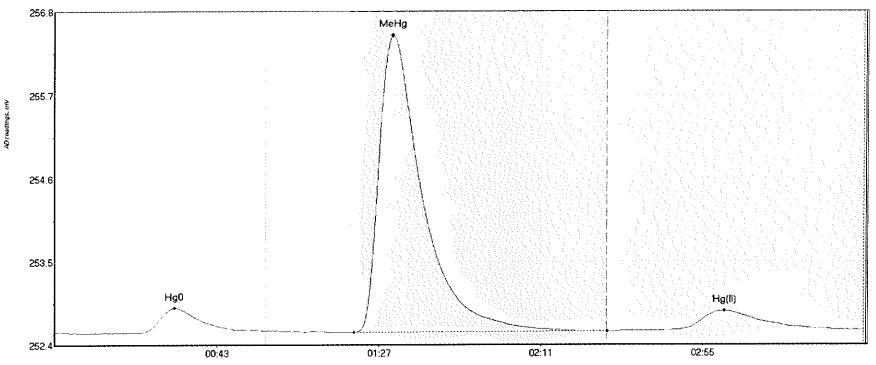
Name		Area
F608139-MSD1	Нg	59.002
F608139-MSD1	Ме	154.433
F608139-MSD1	Нg	41.536

	τime	EndTi
22.7 81.4		57.5 150.0
164.5		217.8

startvalue	PROVETO
252.65	252.68
252.66	252.67
252.67	252.69

reakheight	FIEG
0.485	CT
1.120	CT
0.228	ŌΚ

#19: F608139-MS2



CVAFS Detector (mV) * Extra Peaks | MainPeak baseline

Name		Area	
F608139-MS2	Hg0	39.848	
F608139-MS2	Мен	534.497	
F608139-MS2	Hg (51.596	

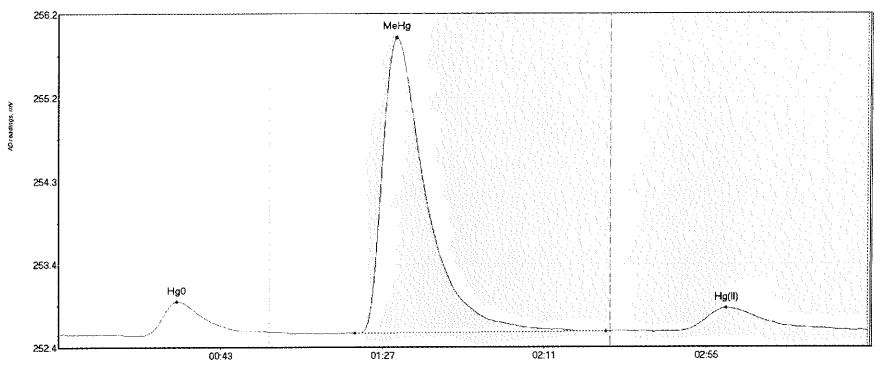
Start	Time	EndTime
22.2		57.5
81.3		150.0
151.8		219.8

StartValue	EndValu
252.60	252.63
252.61	252.62
252.62	252.64

Peak Max	PeakHeight	Flags
32.5	0.329	CT
91.8	3.904	CT
182.1	0.273	CT

Baseline	BlDev
252.6140	0.00
252.6140	0.00
252.6140	0.00
232.0190	0.00

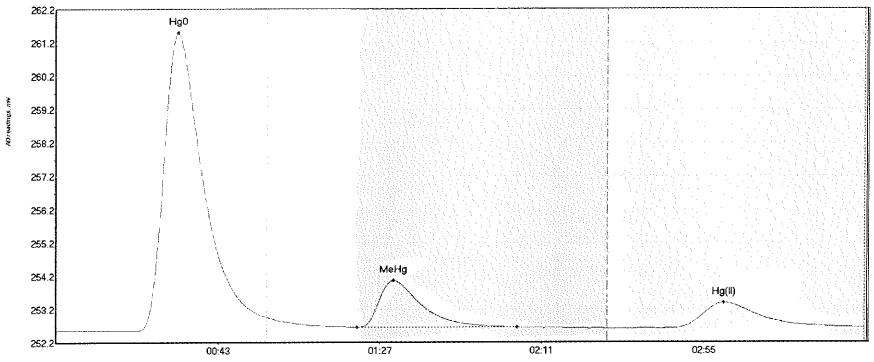
#20: F608139-MSD2



CVAFS Detector (mV) * Extra Peaks | MainPeak baseline

F608139-MSD2 Me 455.139 80.6 148.8 252.59 252.61 91.8 3.327 OK 252.5852 0.00 0.04	Name Area	rea – Start Time EndTime – St	artValue EndValue	Peak Max	reakheight	riags	Baseline	RibeA	BISUILE	Comment	
F608139-MSD2 Me 455.139 80.6 148.8 252.59 252.61 91.8 3.327 OK 252.5852 0.00 0.04	F608139-MSD2 Hg 46.117	5.117 22.8 57.5 2	2.57 252.61	32.1	0.379	CT	252.5852	0.00	0.04		016
			2.59 252.61	91.8	3.327	OK	252.5852	0.00	0.04		310
F608139-MSD2 Hg 45.737 167.6 216.3 252.61 252.63 181.5 0.261 OK 252.5852 0.00 0.04	F608139-MSD2 Hg 45.737		2.61 252.63	181.5	0.261	OK	252.5852	0.00	0.04		

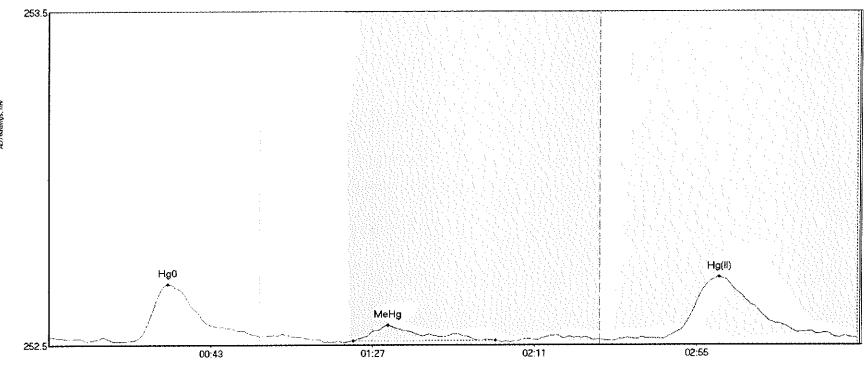
#21: SEQ-CCV1



CVAFS Detector (mV) * Extra Peaks | MainPeak baseline

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BIDev	Bishift	Comment	
SEQ-CCV1 Hq0	1051.617	22.1	57.5	252.56	252.94	33.1	8.889	CT	252.5606	0.00	0.08		016
SEQ-CCV1 MeHg	184.548	81.9	125.5	252.65	252.65	91.8	1.394	OK	252.5606	0.00	0.08		310
SEQ-CCV1 Hg(II)		165.1	217.6	252.62	252.64	181.5	0.764	OK	252.5606	0.00	0.08		

#22: SEQ-CCB1



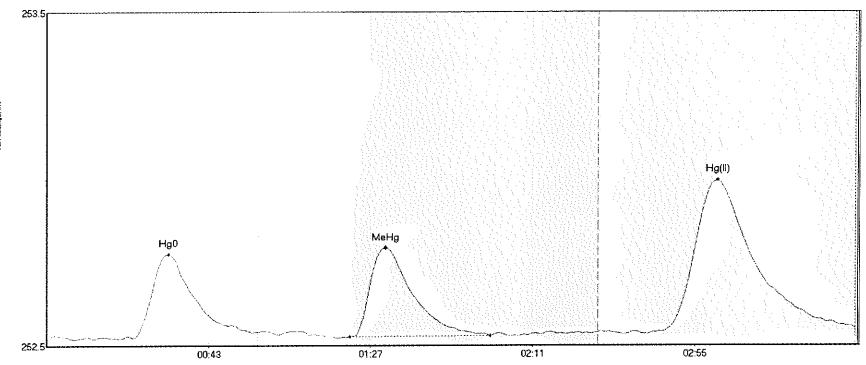
CVAFS Detector (mV) Éxtra Peaks MainPeak baseline

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Name	Area	Start Ti	me EndTime	StartValu	e EndValue	Peak Max	PeakHeig	ht Flags	Baseline	BlDev	BlShift	Comment	
SEQ-CCBl Hq0	22.157	22.2	56.8	252.54	252,55	32.4	0.170	OK	252.5469	0.00	0.00		016
	7.368	82.9	121.5	252.54	252.54	92.2	0.046	OK	252,5469	0.00	0.00		110
SEQ-CCB1 Hq(II		166.6	218.8	252.54	252.54	182.2	0.186	OK	252.5469	0.00	0.00		

#24: 1607339-01



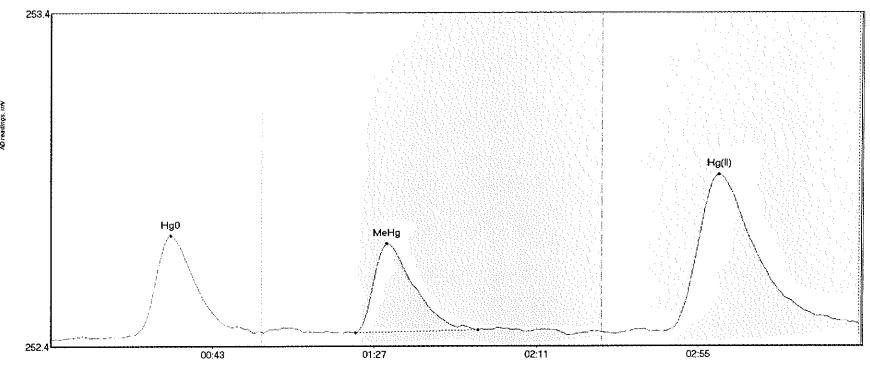
CVAFS Detector (mV) * Extra Peaks | MainPeak baseline

I CILIC		VIEN
1607339-01	Hg0	30.735
1607339-01	MeHg	35.545
1607339-01	Hg (I	82,460

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tart 3.6	Time	EndTin
2.4		120.4
67.2		219.8

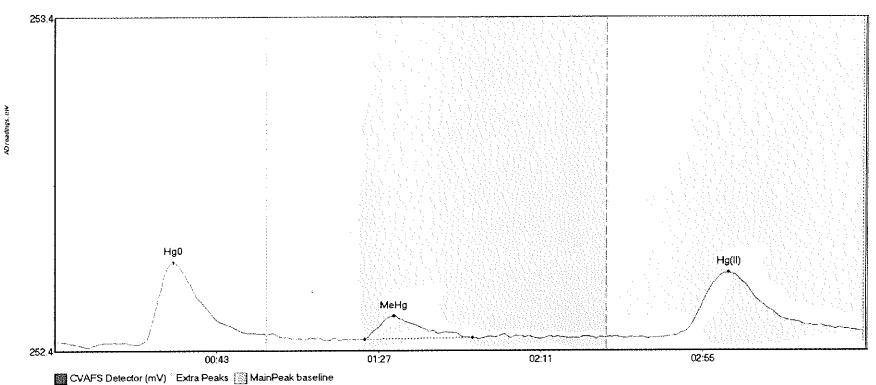
#25: 1607339-02



CVAFS Detector (mV) * Extra Peaks MainPeak baseline

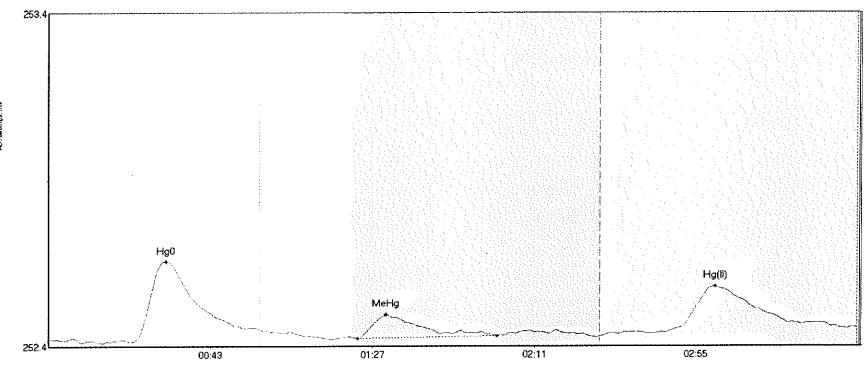
Name 1607339-02 Hg0 1607339-02 MeHg 1607339-02 Hg(I	33.544	Start Time 11.3 83.0 166.8	EndTime 55.3 116.1 219.5	252.46		Peak Max 32.7 91.5 181.6	PeakHeight 0.309 0.268 0.471	OK OK	Baseline 252.4394 252.4394 252.4394	0.00	BlShift 0.05 0.05 0.05	Comment	016
100/333-02 119(1	07.245	100.0	213.3	202110	206113	10110							

#26: 1607339-03



Name 1607339-03 Hg0 1607339-03 MeHg 1607339-03 Hg(I	9.023	Start Time 22.4 84.2 168.7	EndTime 57.4 113.5 219.2	StartValue 252.44 252.45 252.46	EndValue 252.47 252.46 252.48	Peak Max 32.3 92.2 183.0	PeakHeight 0.245 0.071 0.189	Flags OK OK OK	Baseline 252.4464 252.4464 252.4464	B1Dev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
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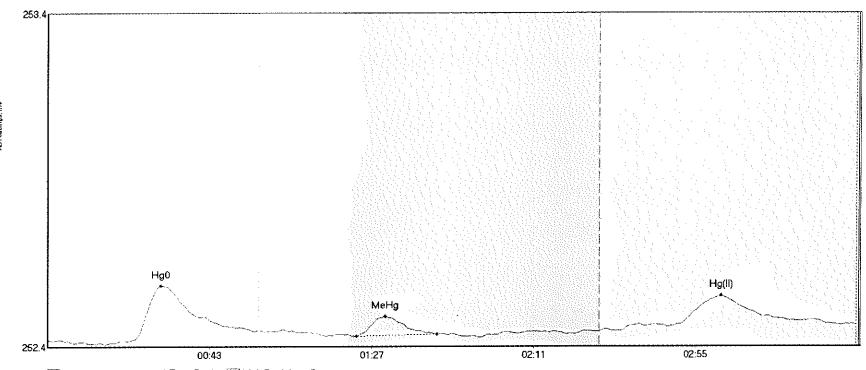
#27: 1607339-04



CVAFS Detector (mV) * Extra Peaks | MainPeak baseline

Name Area Start Time EndTime StartValue EndValue EndValue Peak Max PeakHeight Flags Baseline 1607339-04 Hg0 30.929 22.4 57.5 252.44 252.48 32.0 0.243 CT 252.4496 1607339-04 Hg(I 10.391 84.0 121.9 252.45 252.46 91.8 0.071 OK 252.4496 1607339-04 Hg(I 25.979 155.0 217.1 252.47 252.48 181.3 0.142 OK 252.4496	0.00 0.00	BlShift Cor 0.04 0.04 0.04	mment)16
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#28: 1607339-05



CVAFS Detector (mV) Extra Peaks MainPeak baseline

	Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline
Λĺ	1607339-05 Hg0	21.110	23.2	56.2	252.45	252.47	30.9	0.163	OK	252.4454
í	1607339-05 MeHq		83.9	105.9	252.46	252,46	91.7	0.058	OK	252.4454
)	1607339-05 Hg(I		155.3	215.9	252.47	252.49	183.0	0.105	OK	252.4454
۱-										
>										

Comment

BlDev

0.00

0.00

0.00

BlShift

0.05

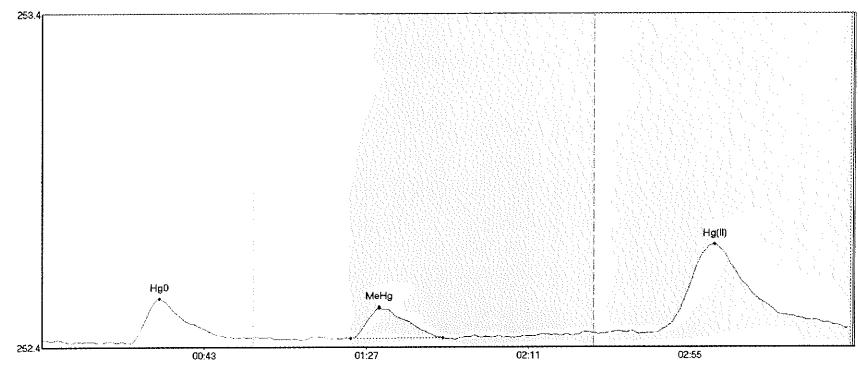
0.05

0.05

Comment

016

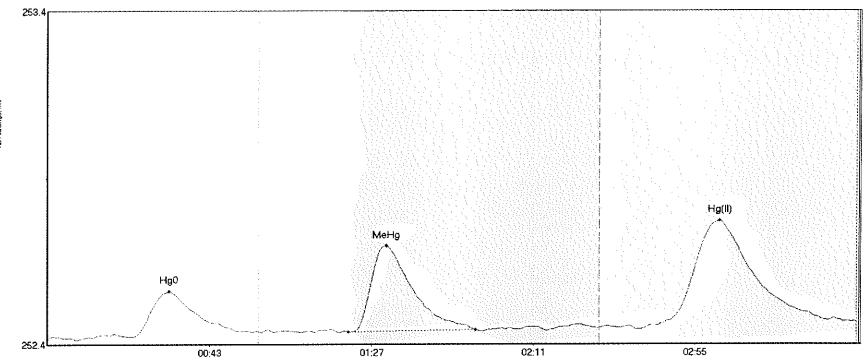
#29: 1607339-06



CVAFS Detector (mV) * Extra Peaks MainPeak baseline

Name Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	 BlDev	BlShift
1607339-06 Hg0 15.433	24.0	52.5	252.44	252.45	31.8	0.134	OK	0.00	0.04
1607339-06 MeHg 11.090	83.8	109.0	252.45	252.45	91.6	0.090	OK	0.00	0.04
1607339-06 Hg(I 49.304	167.2	218.6	252.47	252.48	182.8	0.265	OK	0.00	0.04

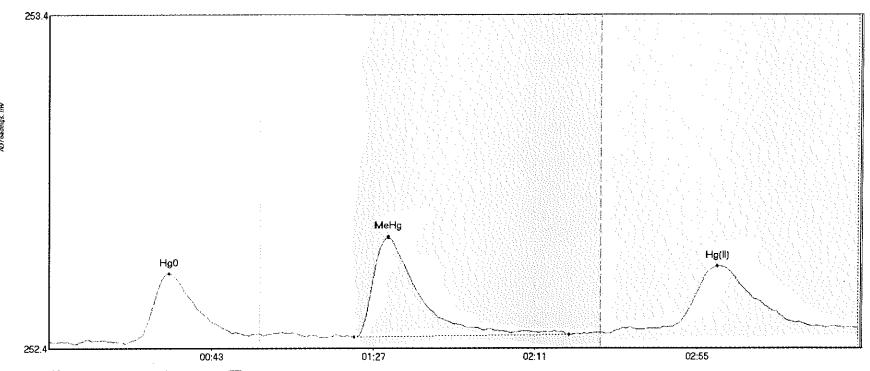




CVAFS Detector (mV) * Extra Peaks MainPeak baseline

Name	Area	Start :	Time EndTime	StartVali	ie EndValue	Peak Max	PeakHeig	int Flags	Baseline		BISUILE	Comment	
1607380-	01 HqC 17.589	9 22.7	55.9	252.44	252.45	33.0	0.135	OK	252.4377	0.00	0.05		016
	-01 MeHa 33.300		116.3	252.45	252.46	92.0	0.260	OK	252.4377	0.00	0.05		310
	01 Hg(Í 59.30		219.8	252.46	252.48	182.7	0.324	CT	252.4377	0.00	0.05		

#31: 1607380-03



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name		Area
1607380-03	Hg0	26.012
1607380-03	МеНд	43.337
1607380-03	Hg(I	38.383

Start Time EndTime 20.8 54.1 141.3 82.8 152.1 219.3

StartValue EndValue 252.43 252.45 252.45 252.46 252.46 252.48

Peak Max PeakHeight Flags 32.4 92.0 181.6

0.211 0.299 0.203

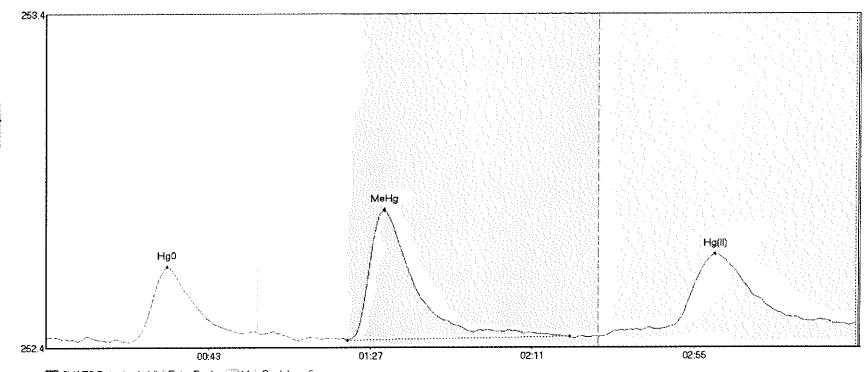
ŌΚ OK OK

Baseline BlDev 252.4347 0.00 252.4347 0.00 252.4347 0.00

BlShift 0.04 0.04 0.04

Comment

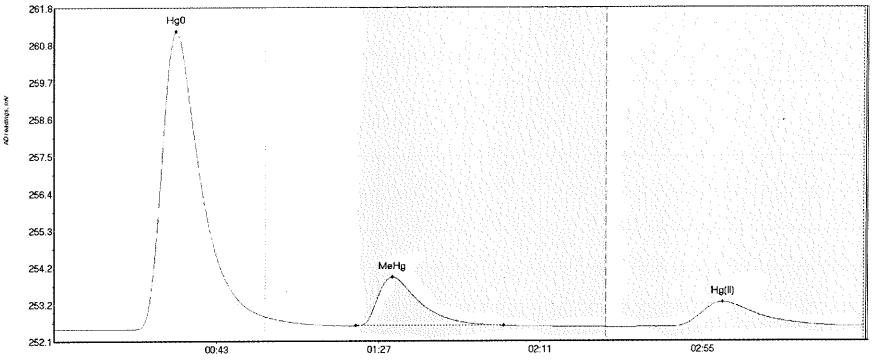




CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline		Bishift	Comment	
1607380-05 Hg0	26.226	22.4	53.0	252.42	252.45	32.7	0.227	OK	252.4408	0.00	0.04		016
1607380-05 MeH		81.9	142.2	252.43	252.44	91.7	0.390	OK	252.4408	0.00	0.04		310
1607380-05 Hg(151.1	217.9	252.44	252.48	181.8	0.248	OK	252.4408	0.00	0.04		
· .													

#33: SEQ-CCV2



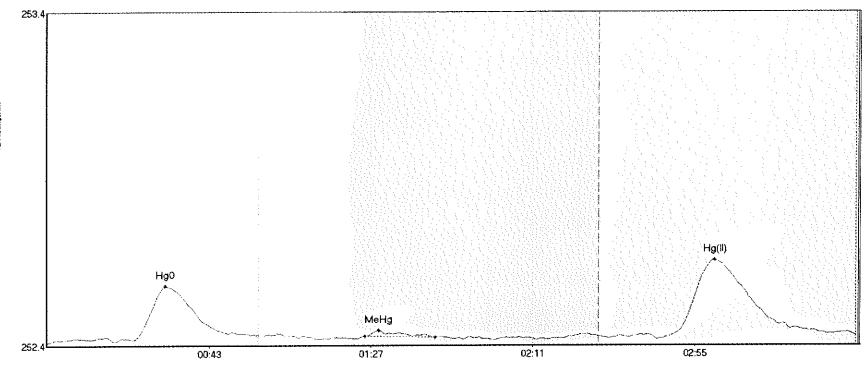
CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	
SEQ-CCV2	Нg
SEQ-CCV2	Ме
SEQ-CCV2	Hg

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ame		Area	Start	Time	End?
EQ-CCV2	Hg0	1027.144	20.4		57.
EQ-CCV2	MeHg	187.531	81.9		122.
EO-CCV2	Ha (II)	128.790	164.5		219.

#34: SEQ-CCB2



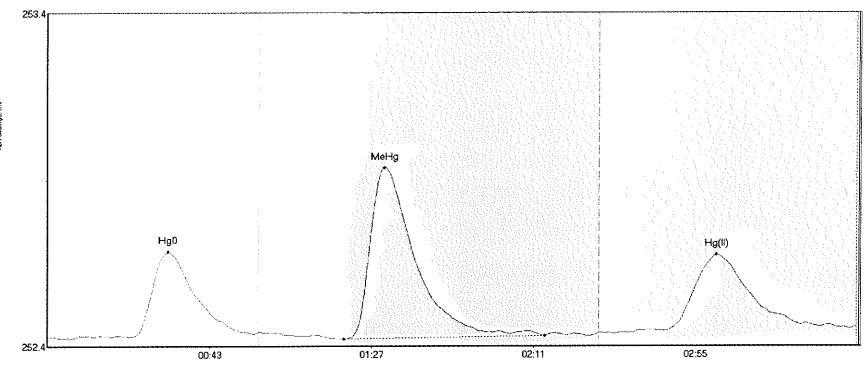
CVAFS Detector (mV) * Extra Peaks | MainPeak baseline

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Name	Area	Start Tim	ne EndTime	StartValu	e EndValue	Peak Max	PeakHeig	ht Flags	Baseline	BlDev	BlShift	Comment	
	20.625	18.6	57.5	252.40	252.42	32.2	0.166	CT	252.3968	0.00	0.02		316
	1.635	86.5	105.4	252.41	252.41	90.1	0.018	OK	252.3968	0.00	0.02		27.0
SEQ-CCB2 Hg(II)		167.2	219.8	252.41	252.42	181.5	0.235	CT	252.3968	0.00	0.02		
SEG-CCDS udititi	40.500	10/.2	210.0	252.11	LUL. IL	101.0	0.200						

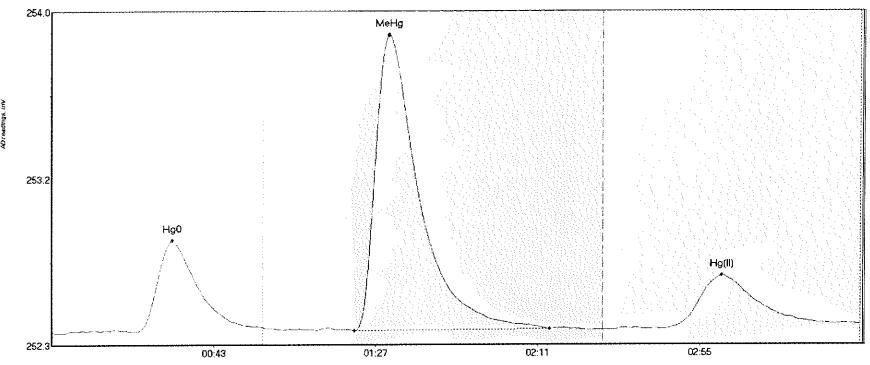
#35: 1607380-07



CVAFS Detector (mV) * Extra Peaks MainPeak baseline

Name 1607380-07 Hg0 1607380-07 MeHg	32.677 72.113	80.6	56.0 135.1	252.38 252.38		32.7 91.6	PeakHeight 0.256 0.516 0.233	OK	Baseline 252.3864 252.3864 252.3864	0.00	B1Shift 0.03 0.03 0.03	Comment	016
1607380-07 Hg(I	39.890	159.2	217.8	252.40	252.41	181.8	0.233	OK	252.3864	0.00	0.03		

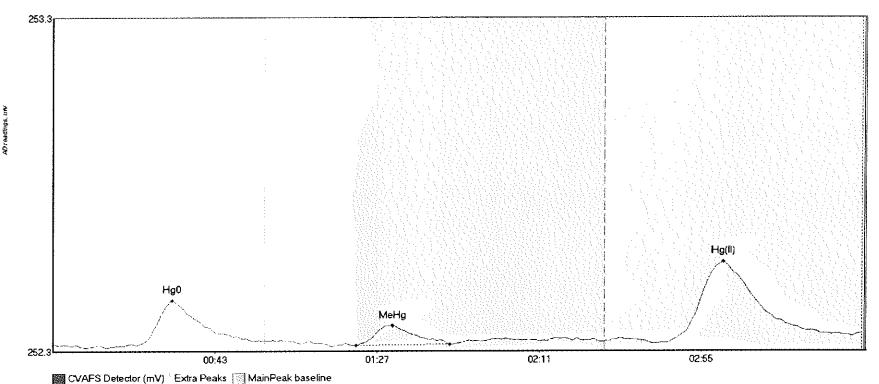
#36: 1607380-09



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name Area Start Time EndTime StartValue EndValue Peak Max PeakHeight Flags	Baseline	BlDev	Bishift	Comment
1607380-G9 Hg0 57.368 22.8 57.5 252.35 252.38 32.8 0.482 CT	252.3508	0.00	0.04	016
1607380-09 MeHq 212.256 82.3 135.3 252.36 252.37 91.8 1.560 OK	252.3508	0.00	0.04	716
1607380-09 Hg(I 48.553 166.5 219.8 252.37 252.39 182.0 0.281 CT	252.3508	0.00	0.04	



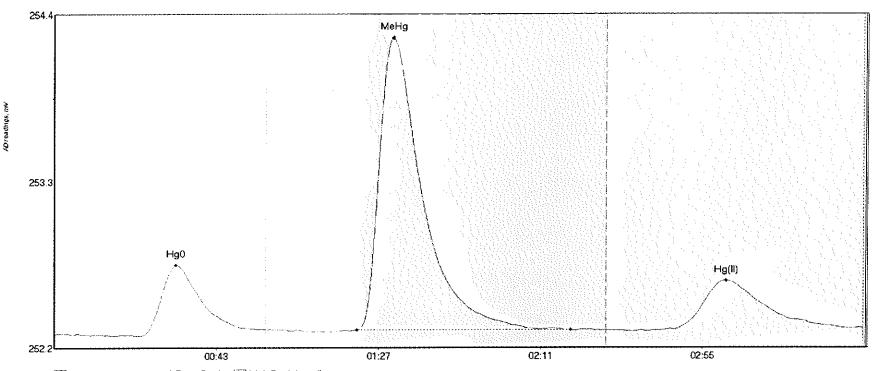


Name		Area
1607380-11	Hg0	16.466
1607380-11	MeHg	7.321
1607380-11	Hg(I	41.119

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Start	Tim∈	EndTir
22.7		57.0
32.3		107.8
166.7		217.1

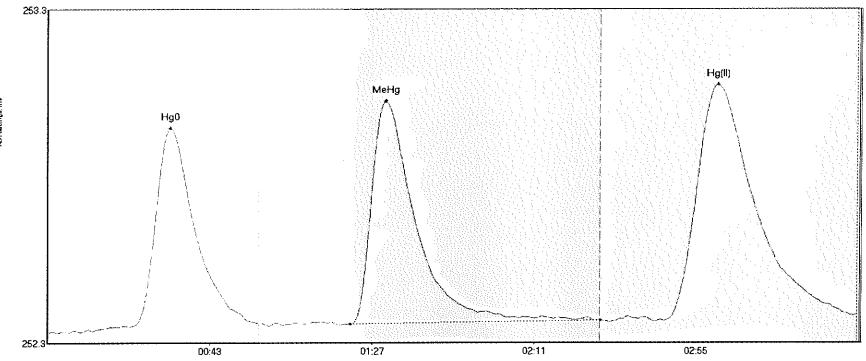
#38: 1607380-13



CVAFS Detector (mV) Éxtra Peaks MainPeak baseline

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607380-13 Hg0	54.089	23.9	57.5	252.32	252.36	33.2	0.463	CT	252.3290	0.00	0.04		016
1607380-13 MeHg		82.2	140.2	252.35	252.35	92.1	1.916	OK	252.3290	0.00	0.04		310
1607380-13 Hg(I		164.6	216.5	252.35	252.36	182.4	0.326	OK	252.3290	0.00	0.04		

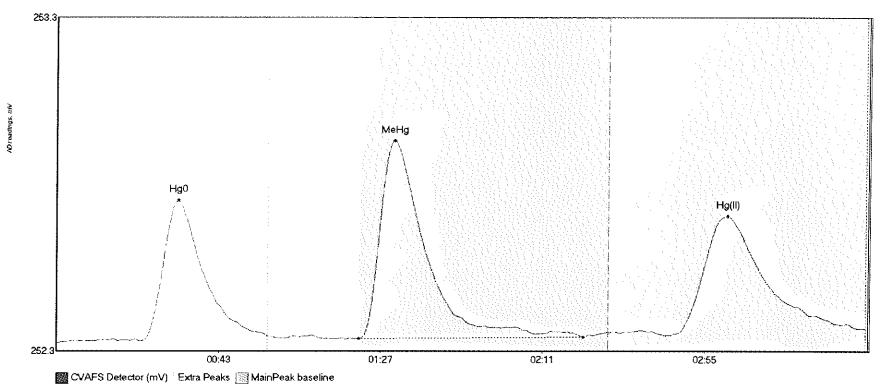
#39: 1607586-01



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607586-01 HgC	74.706	12.2	57.5	252.31	252.34	33.1	0.608	CT	252.3109	0.00	0.05		016
1607586-01 MeHg		82.2	150.0	252.33	252.35	91.7	0.669	CT	252.3109	0.00	0.05		310
1607586-01 Hg(1		167.3	218.8	252.35	252.36	182.0	0.708	OK	252.3109	0.00	0.05		

#40: 1607586-02

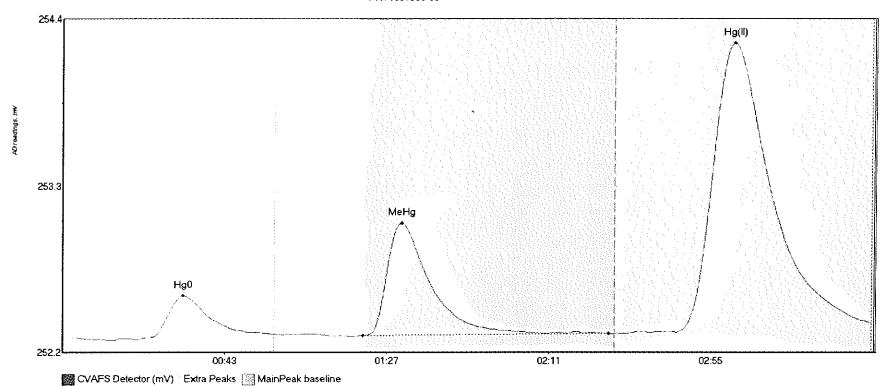


Name		Area
1607586-02	Hg0	51.054
1607586-02	MeHg	83.727
1607586-02	Hg(I	64.829

Start	Time	Endirin
2.3		57.5
82.2		143.2
168.0		217.9

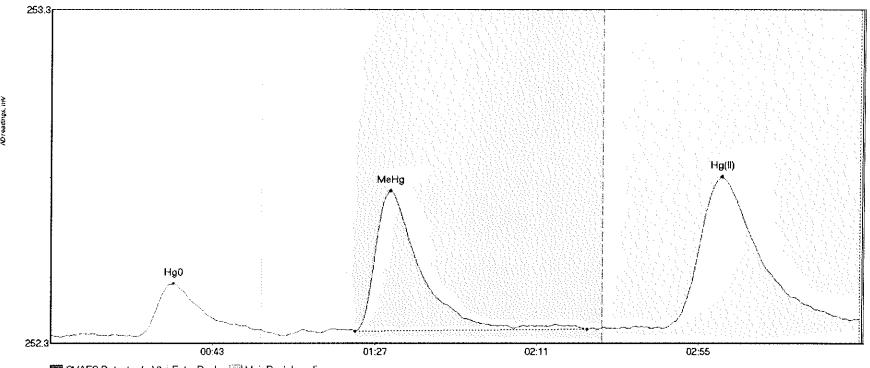
StartValue	FodValue
252.31	252.33
252.33	252.33
252.34	252.35

#41: 1607586-03



Start Time EndTime StartValue EndValue Peak Max PeakHeight Flags Baseline BlDev BlShift Area Comment 1607586-03 Hg0 34.387 252.30 0.289 252.3139 0.00 20.1 57.5 252.34 32.8 _ cr _ 0.10 316 1607586-03 MeHg 102.348 1607586-03 Hg(I 338.468 0.742 252.3139 0.00 81.6 148.3 252.33 252.34 92.1 OK 0.10 159.5 219.7 252.35 252.42 182.3 1.904 OK 252.3139 0.00 0.10

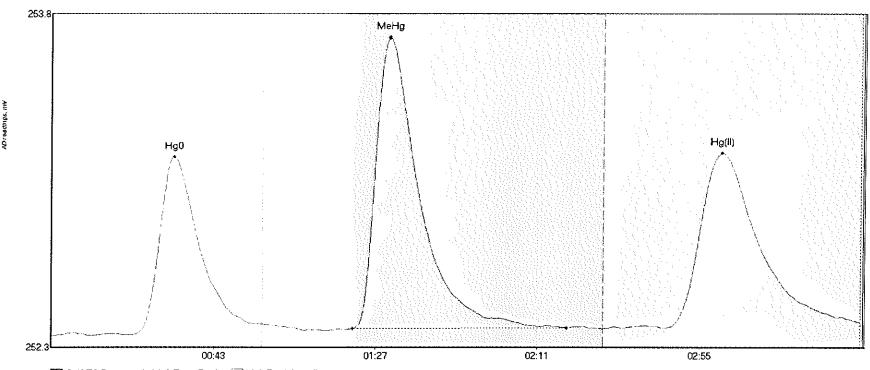
#42: 1607586-04



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Ti	me EndTime	StartValı	ue EndValue	Peak Max	PeakHeig	ht Flags	Baseline	BlDev	BlShift	Comment	
1607586-04	4 Hg0 20.275	23.7	57.5	252.32	252.33	33.4	0.158	CT	252.3179	0.00	0.05		21.6
1607586-04	4 MeHg 60.406	82.7	145.8	252.33	252.34	92.2	0.421	OK	252.3179	0.00	0.05		31.0
1607586-04	4 Hg(1 81.561	166.4	217.3	252.34	252.36	182.3	0.454	OK	252.3179	0.00	0.05		

#43: 1607586-05



CVAFS Detector (mV) * Extra Peaks MainPeak baseline

Name 1607586-05 1607586-05 1607586-05	MeHg	

Start 22.0	Time	EndTim
31.9 .67.1		140.0 219.6

StartValue	PrdValue
252.34	252.39
252.39	252.37
252.37	252.40
232.37	232.40

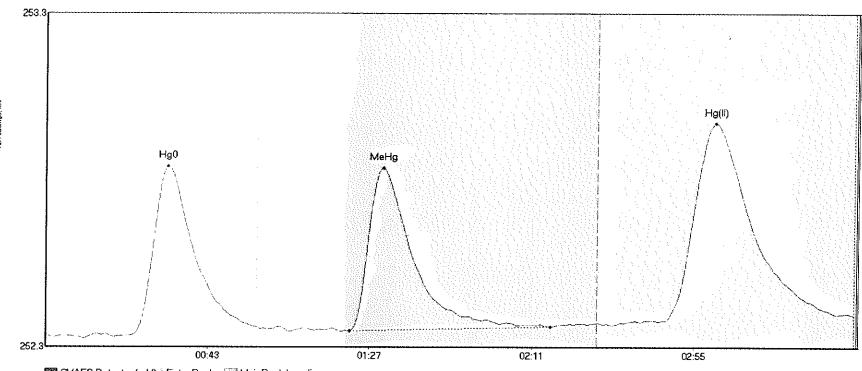
reak	Max
33.1	
91.8	
182.1	

PeakHeight	Flags
0.788	CT
1.288	OK
0.775	OK

Baseline	В
252.3418	0
252.3418	0
252.3418	0

Dev		
00		
00		
00		

#44: 1607586-06



CVAFS Detector (mV) * Extra Peaks MainPeak baseline

Name		Area
1607586-06	Hg0	61.824
1607586-06	MeHg	67.176
1607586-06	Hg{I	104.738

Start	Time	EndTin
22.6		57.5
82.7		137.2
161.5		219.8

EndValu 252.38 252.38
252.41

Peak	Max
33.2	
91.7	
181.8	}

PeakHeight Flags 0.508 CT 0.489 OK 0.597 CT

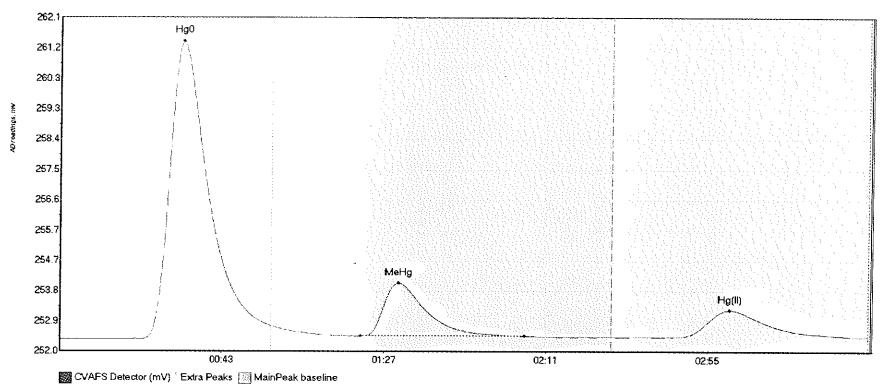
Base 252. 252. 252.

Baseline BlDev 252.3521 0.00 252.3521 0.00 252.3521 0.00

BlShift 0.06 0.06 0.06

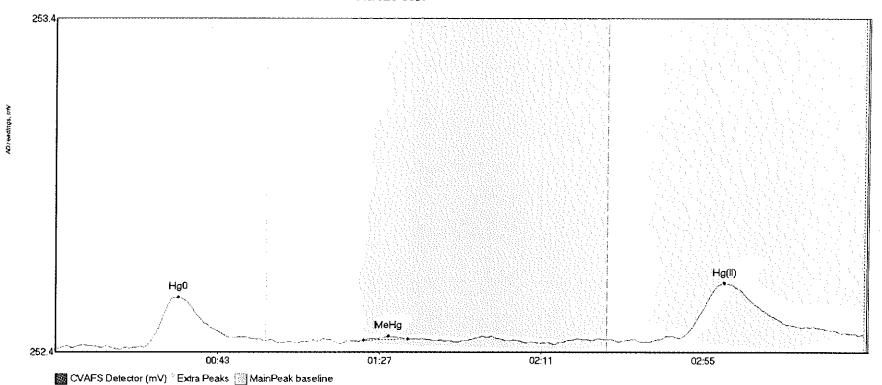
016

#45; SEQ-CCV3



Name	Area	Start Time	e EndTime	StartValue	e EndValue	Peak Max	PeakHeigh	t Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV3 Hg0	1048.573	16.3	57.5	252.35	252.76	33.4	9.028	CT	252.3531	0.00	0.08	0011110
SEQ-CCV3 MeHg	212.776	81.7	126.3	252.46	252.45	92.0	1.608	OK	252.3531	0.00	0.08	
SEQ-CCV3 Hg(II)	147.221	167.7	219.8	252.43	252.43	182.1	0.819	CT	252.3531	0.00	0.08	

#46: SEQ-CCB3



Name	Area	Start Tir	ne EndTime	StartValu	e EndValu e	Peak Max	PeakHeig	ht Flags	Baseline	BlDev	BlShift	Comment	
SEQ-CCB3 Hg0	18.687	23.9	57.0	252.38	252.39	33.3	0.150	OK	252.3713	0.00	0.04		216
SEQ-CCB3 MeHg	0.732	83.8	95.7	252.40	252.40	90.4	0.013	OK	252.3713	0.00	0.04		016
SEQ-CCB3 Hg(II	30.784	169.5	218.4	252.40	252.41	181.8	0.166	OK	252.3713	0.00	0.04		

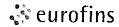
Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2015 Rev 5 (08/06/2015)

Analyst: JEANNE HARREL Sequence #: Reviewer:	6H03012							
2/4/11	MMHg27001-160803-1 WAT	LKO						
Date: <u>8/4//b</u> W0 #: Batch #(s): F608139 Client(s):								
	monte							
Select the correct preparation method. Additional Comment The select the correct preparation method. Additional Comment The select the correct preparation method.	ments:							
Prep Analyte Method Matrix								
MHg FGS-013 MHg Distillation Water								
MHo FGS-010 KOH/MeOH Tissue								
Digest MHg FGS-045 MeCl Extraction Sed/Soil								
DMHq FGS-098 (None Accredited ALL								
inethod) ALL	Augustic American	Barto E 1						
	Analyst Initials:	Reviewer Initials:						
1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been import	red?) YES NO	<u> </u>						
Check for transcription errors from Excel spreadsheet (or Prep Bench sheet)/Raw data	✓ YES ☐ NO	7						
(a) Reviewer: 100% of peak heights checked	YES NO							
(b) Are there peak height errors?	YES NO							
(c) Error on a sample: Do peak heights, responses, & initial results match corrected data:	YES NO	ZN/A						
(d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?	YES NO	D N/A						
(e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries	S). YES NO	□ N/A □						
(f) Check and compare masses (review prep bench sheet)	YES NO	☑ N/A ☑						
(g) Check and compare initial and final volumes	YES NO	□ N/A □						
(h) Do aliquots and dilutions written on benchsheet match those in Excel?	YES NO	□ N/A □						
(i) Is the pH>3.0 for all distilled samples?	YES NO	□ N/A						
(j) Is the sequence #, analyst, date, and instrument # on the QC page?	✓ YES □ NO							
(k) Is the analysis status correct? (analyzed/initial review/reviewed)	YES NO							
(I) Original prep bench sheet added to data package?	YES NO							
(m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)	YES NO	Ø						
3. High QA? WO#(s)/Client(s):	YES NO	B)						
4. Client specific QC? (if Yes, refer to Project Notes/LIMS)	✓ YES NO	卤						
(a) Have the QC requirements been met for all WO#s?	YES NO							
5. 20 or fewer samples in batch?	YES NO	!						
(a) 3 PBs, 1 LCS/LCSD (or BS/BSD), 2 MS/MSD/MD per batch?	✓ YES NO	<u> I</u>						
(b) 1 CCV and 1 CCB every 10 analytical runs?	YES NO	\preceq						
QA/QC Data Checked								
6. The calibration curve included a minimum of 5 Standards	PASS FAIL	□ N/A ☑						
Comments:								
7. 1st Calibration Standard % Recoveries (65-135%)	PASS FAIL	□ N/A ☑						
Comments:								
8. RSD CF (≤ 15%)	✓ PASS ☐ FAIL	Ø						
Comments:								

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2013 Rev 4 (08/22/2013) Analyst: JEANNE HARREL Sequence #: 6H03012 o love Car 8/4/16 Reviewer: Dataset ID #: MMHg27001-160803-1 WATERS Date: 8/4/2016 WO #: Batch #(s): F608139 Client(s): **Analyst Initials:** Reviewer Initials: ✓ PASS FAIL 9. ICV % Recoveries 67-133% Comments: ✓ PASS FAIL 10. CCV % Recoveries 67-133% Comments: ✓ PASS 11. Are the absolute value of the ICB and CCBs < PQL? FAIL Comments: 12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%) PASS ✓ FAIL Comments: BS1/BSD1 failed high. QM-12 all reportable samples below reporting limit 13. LCS/LCSD or BS/BSD RPD (< 25%) ✓ PASS FAIL Comments: 14. Water: Average of Preparation Blanks < 0.045 ng/L and standard devaition of 0.015 ng/L? N/A ✓ PASS FAIL 15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix? PASS FAIL ✓ N/A PASS Comments: FAIL ☐ NO 16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done) YES ✓ N/A ✓ YES ☐ NO 17. Is the correct 'Source' designated for MD/MS/MSD? 18. For digested preps: was there a spike witness signature & date on the prep bench sheet? ✓ YES NO. N/A 19. MD RPD/MT RSD(< 35%) ✓ PASS FAIL Comments: 20. Is there one set of MS/MSD per every 10 samples? ✓ PASS FAIL Comments: ✓ PASS 21. MS/MSD RPD(< 35%) FAIL Comments: PASS ✓ FAIL 22. MS (AS) % Recoveries (65-130%) Comments: MS2 failed high QM-07 PASS ✓ FAIL 23. MSD (ASD) % Recoveries (65-130%) Comments: MSD1 failed low, MSD2 failed high. QM-07 24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630) ✓ YES ☐ NO 7 ✓ YES NO. 25. Are all samples within instrument calibration range (or at maximum aliquot size)? Comments: ✓ PASS ☐ NO N/A 26. For instrumental dilutions, is the dilution factor in excel correct? Is the sample volume, diluents, and final volume of the dilution noted on benchsheet? ✓ PASS NO N/A 27. Dissolved < Total metals (if applicable) ✓ PASS ___ NO N/A PASS □ NO ✓ N/A 28. Effluent < Influent metals (visually confirm if needed) Comments:

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2013 Rev 4 (08/22/2013) Analyst: JEANNE HARREL Sequence #: 6H03012 0 9----Reviewer: Dataset ID #: MMHa27001-160803-1 WATERS Date: 8/4/2016 WO #: Batch #(s): F608139 Client(s): **Analyst Initials: Reviewer Initials:** ろし □ NO ✓ N/A YES 29. Are re-runs noted with reason? Comments: YES □ NO N/A 30. For failing QC (CCV, CCB, PB, BS/BSD, CAL): Was a bubbler and trap test run before the analytical run continued? Comments: YES NO ✓ N/A 31. Do re-run results compare to initial analysis (< 35% RPD)? Comments: 32. Are qualifiers consistent with the data review flowcharts? ✓ YES ☐ NO N/A Comments: 33. Have non-reportable samples been imported into LIMS and clicked to non-reportable? ✓ YES _ NO N/A [フ] YES □ NO □ N/A 34. Have re-extracts been created for non-reportable samples? 35. Narrations in MMO box in LIMS? Comments: ☐ YES ✓ NO 36. Are there any HIGH QA projects within the data? If so, place dataset to the QA office. 1 √ YES N/A 37. Does the data set need scanning? Files located at: \\Cuprum\gen admin\Quality Assurance\Training Master\DOCs ✓ YES □ NO 38. Date of analyst IDOC/CDOC: 1/15/2016 IDOC/CDOC within last 12 months? 아 용네니스 Current SOP revision? ✓ YES □ NO 39. Date of analyst's SOP reading: ✓ YES □ NO N/A 40. Date of LOD: 7/7/2016 LOD within last 3 months (within 12 months for MDN)? ✓ YES ☐ NO N/A 41. Date of LOQ: 7/7/2018 LOQ within last 3 months (within 12 months for MDN)? 42. If MDN samples, date of last MDL study: YES ☐ NO ✓ N/A 43. MDL study within last 12 months? Data can not be reported without a current IDOC/CDOC, LOD or LOQ. Additional Comments: T YES [√] NO





Frontier Global Sciences

Analysis Datasheet for Methyl Mercury in Waters

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Date of Analysis: August 05, 2016 Instrument #: Hg2700-1 LIMS Sequence #: 6H08006

Analyst: DM2 Units ng/L

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/l.	20.70 units	413.93	19.89 units	397.74	98.8 %Rec
SEQ-CAL2	1	0.20 ng/L	78.45 units	392.27	77.64 units	388.22	96.4 %Rec
SEQ-CAL3	1	1.00 ng/L	456.93 units	456.93	456.12 units	456.12	113.3 %Rec
SEQ-CAL4	1	2.00 ng/L	801.88 units	400.94	801.07 units	400.53	99.5 %Rec
SEQ-CAL5	1	4.00 ng/L	1483.68 units	370.92	1482.87 units	370.72	92.1 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						

 Corr. Mean RF
 Corr. St Dev RF
 Corr. RSD CF
 Uncorr. Mean RF
 Eff Factor

 402.66
 +/- 32.08
 8.0% RSD
 407.00
 0.8046

Blanks:

16111751						
LabNumber	Ŋ	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)	ļ
SEQ-IBL	1	0.81 units		0.00 na/l	#VALUE!	J

MDN Only SEQ-CAL1 SEQ-CAL2 SEQ-CAL3 SEQ-CAL4 SEQ-CAL5 SEQ-CAL6 NΑ SEQ-CAL7 NA SEQ-CAL8 NA SEQ-CAL9 NA SEQ-ICV/CCV Acetate Buffer

Ethylating Agent

Preparation Blanks

SEQ-CAL9

Sample Type	Batch ID	П	Mean	Std Dev
BLK	1	3	0.007 ng/L	±0.007
BLK	2	0	0.000 ng/L	
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

QUALITY ASSURANCE

Planter for a letter VI for What I

INITIALS: DAW 8.914

		Sample				A34	ļ	Uncorrected		No PB	Sidalah.	alana kalana ka	arrianian.	NAMES AND STATE OF S	
Instrument	Analyst	Туре	LabNumber	Dilution	Analyzed	FileID	Run End	Response	Batch ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2700-1	DM2	CAL	SEQ-IBL1	1	8/5/16 7:59	13922-1.RAW	7:59:27	0.81			0.0	0.000	0.000	ng/L	Commence
Hg2700-1	DM2	CAL	SEQ-CAL1	1	8/5/16 8:09	13923-1.RAW	8:09:57	20.70			19.9	0.049	0.049	ng/L	· v
Hg2700-1	DM2	CAL	SEQ-CAL2	1	8/5/16 8:20	13924-1.RAW	8:20:28	78.45			77.6	0.193	0.193	na/L	
Hg2700-1	DM2	CAL.	SEQ-CAL3	1	8/5/16 8:30	13925-1.RAW	8:30:58	456.93			456.1	1.133	1.133	ng/L	
Hg2700-1	DM2	CAL.	SEQ-CAL4	1	8/5/16 8:41	13926-1.RAW	8:41:29	801.88			801.1	1,989	1.989	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL5	1	8/5/16 8:52	13927-1.RAW	8:52:00	1483.68			1482.9	3.683	3.683	ng/L	·····
Hg2700-1	DM2	CAL	SEQ-ICV1	1	8/5/16 9:02	13928-1.RAW	9:02:30	248.88			248.1	0.616	0.616	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICB1	1	8/5/16 9:13	13929-1.RAW	9:13:01	6.87			6.1	0.015	0.015	ng/L	
Hg2700-1	DM2	BŁK	F607432-BLK7	500	8/5/16 9:23	13930-1.RAW	9:23:32	4.05		x	3.2	0.010	5.002	ng/L	
Hg2700-1	DM2	BLK	F607432-BLK8	500	8/5/16 9:34	13931-1.RAW	9:34:03	2.24		х	1.4	0.004	2.202	ng/L	
Hg2700-1	DM2	BLK	F607432-BLK9	500	8/5/16 9:44	13932-1.RAW	9:44:33	2.60		x	1.8	0.006	2.769	ng/L	
Hg2700-1	DM2	SAM	*F607432-BLKA	500	8/5/16 9:55	13933-1.RAW	9:55:04	3.20		×	2.4	0.007	3.687	ng/L	
Hg2700-1	DM2	SAM	*F607432-BLKB	500	8/5/16 10:05	13934-1.RAW	10:05:35	1.09		x	0.3	0.001	0.431	ng/L	
Hg2700-1	DM2	SAM	*F607432-BLKC	500	8/5/16 10:16	13935-1.RAW	10:16:05	0		X	-0.8	-0.002	-1.250	ng/L	
Hg2700-1	DM2	SAM	F607432-BS2	2000	8/5/16 10:26	13936-1.RAW	10:26:36	1180.48		x	1179.7	3.641	7282.314	ng/L	· · · · · · · · · · · · · · · · · · ·
Hg2700-1	DM2	SAM	F607432-BSD2	2000	8/5/16 10:37	13937-1.RAW	10:37:07	1332.96		X	1332.1	4.112	8223.560	ng/L	
Hg2700-1	DM2	SAM	1607541-01RE1	500	8/5/16 10:47	13938-1.RAW	10:47:37	37.89		x	37.1	0.114	57.224	ng/L	
Hg2700-1	DM2	SAM	1607655-01RE1	2500	8/5/16 10:58	13939-1.RAW	10:58:08	138.64		x	137.8	0.425	1063.595	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV1	1	8/5/16 11:08	13940-1.RAW	11:08:39	263.52			262.7	0.652	0.652	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB1	1	8/5/16 11:19	13941-1.RAW	11:19:09	4.42			3.6	0.009	0.009	ng/L	
Hg2700-1	DM2	SAM	F607432-BS3	2000	8/5/16 11:29	13942-1.RAW	11:29:40	1059.23		X	1058.4	3.267	6533.797	ng/L	
Hg2700-1	DM2	SAM	F607432-BSD3	2000	8/5/16 11:40	13943-1.RAW	11:40:11	1093.34		x	1092.5	3.372	6744.330	ng/L	
Hg2700-1	DM2	SAM	1607655-02RE1	2500	8/5/16 11:50	13944-1.RAW	11:50:42	190.32		x	189.5	0.585	1462.308	ng/L	
Hg2700-1	DM2	SAM	1607655-03R£1	2500	8/5/16 12:01	13945-1.RAW	12:01:13	167.26		×	166.5	0.514	1284.419	ng/L	
Hg2700-1	DM2	SAM	1607655-04RE1	2500	8/5/16 12:11	13946-1.RAW	12:11:43	184.35		x	183.5	0.567	1416.272	ng/L	V-P-1112-2-1112-11-11-11-11-11-11-11-11-11-
Hg2700-1	DM2	SAM	1607655-05RE1	2500	8/5/16 12:22	13947-1.RAW	12:22:14	104.26		x	103.4	0.319	798.234	ng/L	
Hg2700-1	DM2	SAM	1607723-01RE1	2500	8/5/16 12:32	13948-1.RAW	12:32:45	319.48		x	318.7	0.984	2458.975	ng/L	
Hg2700-1	DM2	SAM	1607723-02RE1	2500	8/5/16 12:43	13949-1.RAW	12:43:15	389.16		X .	388.4	1.199	2996.687	ng/L	
Hg2700-1	DM2		1607723-03RE1	2500	8/5/16 12:53	13950-1.RAW	12:53:46	709.79	1	K	709.0	2.188	5470.814	ng/L	
Hg2700-1	DM2	SAM	1607723-04RE1	2500	8/5/16 13:04	13951-1.RAW	13:04:17	820.50		κ	819.7	2.530	6325.095	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV2	1	8/5/16 13:14	13952-1.RAW	13:14:47	235.57		}	234.8	0.583	0.583	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB2	1	8/5/16 13:25	13953-1.RAW	13:25:18	3.29			2.5	0.006	0.006	ng/L	
Hg2700-1	DM2		1607723-05RE1	2500	8/5/16 13:35	13954-1.RAW	13:35:49	660.04		(659.2	2.035	5086.913	ng/L	\$40.00 miles (\$40.00 miles (\$4
Hg2700-1	DM2		1607723-06RE1	2500	8/5/16 13:46	13955-1.RAW	13:46:19	897.37		(896.6	2.767	6918.289	ng/L	
Hg2700-1	DM2	SAM	1607723-05RE2	2500	8/5/16 13:56	13956-1.RAW	13:56:50	582.92	,	·	582.1	1.797	4491.816	ng/L	
Hg2700-1	DM2		1607723-06RE2	2500	8/5/16 14:07	13957-1.RAW	14:07:21	749.26		(748.4	2.310	5775.342	ng/L	
Hg2700-1	DM2	SAM	1607800-01RE1	500	8/5/16 14:17	13958-1.RAW	14:17:51	8.03		t	7.2	0.022	11.146	ng/L	
Hg2700-1	DM2		F607432-DUP2	2500	8/5/16 14:28	13959-1.RAW	14:28:22	141.69	,	(140.9	0.435	1087.099	ng/L	
Hg2700-1	DM2		F607432-MS3	2500	8/5/16 14:38	13960-1.RAW	14:38:53	270.11		(269.3	0.831	2078.016	ng/L	W-F-1
Hg2700-1	DM2		F607432-MSD3	2500	8/5/16 14:49	13961-1.RAW	14:49:23	266.70	<u>i</u> >		265.9	0.821	2051.728	ng/L	
Hg2700-1	DM2		F607432-MS4	500	8/5/16 14:59	13962-1.RAW	14:59:54	456.87			456.1	1.408	703.839	ng/L	
Hg2700-1	DM2		F607432-MSD4	500	8/5/16 15:10	13963-1.RAW	15:10:25	443.09	x		442.3	1.365	682.568	ng/L	
Hg2700-1	DM2		SEQ-CCV3	1	8/5/16 15:20	13964-1.RAW	15:20:55	221.81			221.0	0.549	0.549	ng/L	
Hg2700-1	DM2		SEQ-CCB3	1	8/5/16 15:31	13965-1.RAW	15:31:26	3.49			2.7	0.007	0.007	ng/L	
Hg2700-1	DM2		SEQ-CCV4	1	8/5/16 15:56	13966-1.RAW	15:56:12	211.53			210.7	0.523	0.523	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB4	1	8/5/16 16:06	13967-1.RAW	16:06:42	1.52	i.		0.7	0.002	0.002	ng/L	

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dayah	PARTIE .	Sample)					Uncorrected		No PB	100000000			Garana kalenda in	
Instrument	Analyst	Type	LabNumber	Dilution	Analyzed	FileID	Run End	Response	Batch ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2700-1	DM2	CAL	SEQ-CCV5	1	8/5/16 17:47	13968-1.RAW	17:47:33	172.19			: 171.4	0.426	0.426	i na/L	······································
Hg2700-1	DM2	CAL	SEQ-CCB5	1	8/5/16 17:58	13969-1.RAW	17:58:04	2.93		İ	2.1	0.005	0.005	ng/L	
Hg2700-1	DM2	BLK	F608200-BLK1	1.25	8/5/16 18:08	13970-1.RAW	18:08:35	2.63	1	!	1.8	0.006	0.007	ng/L	
Hg2700-1	DM2	BLK	F608200-BLK2	1.25	8/5/16 18:19	13971-1.RAW	18:19:06	4.36	1		3.5	0.011	0.014	ng/L	
Hg2700-1	DM2	BLK	F608200-BLK3	1.25	8/5/16 18:29	13972-1.RAW	18:29:37	0.94	1	<u> </u>	0.1	0.000	0.001	ng/L	
Hg2700-1	DM2	SAM	F608200-BS1	1.25	8/5/16 18:40	13973-1.RAW	18:40:08	539.04	1		538.2	1.656	2.070	ng/L	
Hg2700-1	DM2	SAM	F608200-BSD1	1.25	8/5/16 18:50	13974-1.RAW	18:50:39	455.44	1		454.6	1.398	1.747	ng/L	
lg2700-1	DM2	SAM	F608200-DUP1	1.25	8/5/16 19:01	13975-1.RAW	19:01:10	47.42	1		46.6	0.138	0.173	ng/L	
lg2700-1	DM2	SAM	F608200-MS1	1.25	8/5/16 19:11	13976-1.RAW	19:11:41	540.38	1		539.6	1.660	2.075	ng/L	
lg2700-1	DM2	SAM	F608200-MSD1	1.25	8/5/16 19:22	13977-1.RAW	19:22:12	586.22	1		585.4	1.801	2,252	ng/L	
lg2700-1	DM2	SAM	F608200-MS2	1.25	8/5/16 19:32	13978-1.RAW	19:32:42	596.43			595.6	1.833	2,291	ng/L	
lg2700-1	DM2	SAM	F608200-MSD2	1.25	8/5/16 19:43	13979-1.RAW	19:43:13	576.30	1		575.5	1.771	2.213	ng/L	
ig2700-1	DM2	CAL	SEQ-CCV6	1	8/5/16 19:53	13980-1.RAW	19:53:44	192.99			192.2	0.477	0.477	ng/L	
lg2700-1	DM2	CAL	SEQ-CCB6	1	8/5/16 20:04	13981-1.RAW	20:04:15	6.60			5.8	0.014	0.014	ng/L	*****
lg2700-1	DM2	SAM	1607339-01RE1	1.25	8/5/16 20:14	13982-1.RAW	20:14:46	34.59	1		33.8	0.099	0.123	ng/L	
g2700-1	DM2	SAM	1607339-02RE1	1.25	8/5/16 20:25	13983-1.RAW	20:25:17	33.02		^	32.2	0.094	0.123	ng/L	~
g2700-1	DM2	SAM	1607380-01RE1	1.25	8/5/16 20:35	13984-1.RAW	20:35:48	37.75	1		36.9	0.108	0.117	ng/L	
g2700-1	DM2	SAM	1607380-03RE1	1.25	8/5/16 20:46	13985-1.RAW	20:46:19	30.74			29.9	0.087	0.108	ng/L	
g2700-1	DM2	SAM	1607380-05RE1	1.25	8/5/16 20:56	13986-1.RAW	20:56:50	55.02			54.2	0.162	0.202	ng/L	
ig2700-1	DM2	SAM	1607380-07RE1	1.25	8/5/16 21:07	13987-1.RAW	21:07:22	74.29	1		73.5	0.221	0.202		
g2700-1	DM2	SAM	1607380-09RE1	1.25	8/5/16 21:17	13988-1.RAW	21:17:53	226.27		i	225.5	0.690	0.863	ng/L	
g2700-1	DM2	SAM	1607380-13RE1	1.25	8/5/16 21:28	13989-1.RAW	21:28:24	287.45	i		286.6	0.879	1.099	ng/L	
g2700-1	DM2	SAM	1607586-01RE1	1.25	8/5/16 21:38	13990-1.RAW	21:38:55	94.12	1.1		93.3	0.282	0.353	ng/L	
q2700-1	DM2	SAM	1607586-02RE1	1.25	8/5/16 21:49	13991-1.RAW	21:49:26	71,50	1	————— <u> </u>	70.7	0.213	0.266	ng/L	
g2700-1	DM2	CAL	SEQ-CCV7	1	8/5/16 21:59	13992-1.RAW	21:59:57	196.08			195.3	0.485	0.485	ng/L	****
g2700-1	DM2	CAL	SEQ-CCB7	1	8/5/16 22:10	13993-1.RAW	22:10:28	0.88			0.1	0.000	0.000	ng/L	
g2700-1	DM2	SAM	1607586-03RE1	1.25	8/5/16 22:20	13994-1.RAW	22:20:59	103.06			102.3	0.310		ng/L	
2700-1	DM2	SAM	1607586-04RE1	1.25	8/5/16 22:31	13995-1.RAW	22:31:30	60.04		~	59.2	0.310	0.387	ng/L	
q2700-1	DM2	SAM	1607586-05RE1	1.25	8/5/16 22:42	13996-1.RAW	22:42:01	212.64	<u>1</u>			***************************************	0.221	ng/L	
g2700-1	DM2	SAM	1607586-06RE1	1.25	8/5/16 22:52	13997-1.RAW	22:52:32	80.27			211.8 79.5	0.648	0.810	ng/L	
g2700-1	DM2	SAM	1607586-07	1.25	8/5/16 23:03	13998-1.RAW	23:03:03	52,58	1	***	51.8	0.240	0.299	ng/L	~
q2700-1	DM2	SAM	1607586-08	1.25	8/5/16 23:13	13999-1.RAW	23:13:35	20.82				0.154	0.193	ng/L	
2700-1	DM2		1607586-09	1.25	8/5/16 23:24	14000-1.RAW	23:24:06	26.82	1		20.0	0.056	0.070	ng/L	
2700-1	DM2		1607586-10	1.25	8/5/16 23:34	14001-1.RAW	23:34:37	16.26	1	·	26.0	0.075	0.093	ng/L	·
g2700-1	DM2		1607586-11	1.25	8/5/16 23:45	14002-1.RAW	23:45:08	34.34	1		15.5	0.042	0.053	ng/L	
g2700-1	DM2	SAM	1607586-13	1.25	8/5/16 23:55	14002-1.RAW	23:55:39	*****	1		33.5	0.098	0.122	ng/L	
2700-1	DM2	CAL	SEQ-CCV8	1	8/6/16 0:06	14003-1.RAW	0:06:10	30.17	1		29.4	0.085	0.106	ng/L	
g2700-1	DM2	CAL	SEO-CCB8	1 1	8/6/16 0:16			212.55			211.7	0.526	0.526	ng/L	
4-700-1	D1.15	CAL.	JEG CUIO	1	0/0/10 n:10	14005-1.RAW	0:16:41	0.73			-0.1	0.000	0.000	ng/L	





Frontier Global Sciences

Analysis Datasheet for Methyl Mercury in Waters

Date of Analysis: August 05, 2016 Instrument #: Hg2700-1 LIMS Sequence #: 6H08006

Analyst: DM2 Units ng/L

Calibration Statistics:

LabNumber	n	True Vai	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/L	20.70 units	413.93	19.89 units	397.74	98.8 %Rec
SEQ-CAL2	1	0.20 ng/L	78.45 units	392.27	77.64 units	388.22	96.4 %Rec
SEQ-CAL3	1	1.00 ng/L	456.93 units	456.93	456.12 units	456.12	113.3 %Rec
SEQ-CAL4	1	2.00 ng/L	801.88 units	400.94	801.07 units	400.53	99.5 %Rec
SEQ-CAL5	1	4.00 ng/L	1483.68 units	370.92	1482.87 units	370.72	92.1 %Rec
SEQ-CAL6	0	- .			1.02.0. dillo	570.72	J2.1 70NCC
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF	Corr. St Dev RF	Corr. RSD CF	Uncorr, Mean RF	Eff Factor
402.66	+/- 32.08	8.0% RSD	407.00	0.8046

	Blanks:			
i	LabNumber	n		Çi.Z
		<u>. </u>	110011	3001

abNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL		0.81 units		The second secon	#VALUE!

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.007 ng/L	±0.007
BLK	2	0	0.000 ng/L	
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/l	

	MDM Only
CEO 0414	MDN Only
SEQ-CAL1	
SEQ-CAL2	
SEQ-CAL3	
SEQ-CAL4	
SEQ-CAL5	
SEQ-CAL6	NA
SEQ-CAL7	NA
SEQ-CAL8	NA
SEQ-CAL9	NA
SEQ-ICV/CCV	
Acetate Buffer	
Ethylating Agen	t

A. Salakara		Sample				1)		Uncorrected		No PB	114 64 64 64 65	NAMES NAMES AND A STORY	Stationers and various S	da a a vite/testa á n	
Instrument	Analyst	Type	LabNumber	Dilution	Analyzed	FileID	Run End	Response	Batch ID	Correction?	RESP	InitialResult	Final Docult	InitialUnits	Comments
Hg2700-1	DM2	CAL.	SEO-IBL1 ~	1	8/5/16 7:59	13922-1.RAW -	7:59:27	0.81			0.0	0.000	0.000	ng/L	Comments
Hg2700-1	DM2	ÇAL	SEQ-CAL1	1	8/5/16 8:09	13923-1 RAW -	8:09:57	20.70			19.9	0.049	0.049	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL2-	1	8/5/16 8:20	13924-1.RAW	8:20:28	78.45			77.6	0.193	0.193	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL3 -	1	8/5/16 8:30	13925-1.RAW -	8:30:58	456.93			456.1	1,133	1.133	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL4 ~	1	8/5/16 8:41	13926-1.RAW-	8:41:29	801.88	-	ļ	801.1	1.989	1.989	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL5 +	1	8/5/16 8:52	13927-1.RAW -	8:52:00	1483.68			1482.9	3.683	3.683	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICV1 -	1	8/5/16 9:02	13928-1.RAW -	9:02:30-	248.88		*	248.1	0.616	0.616	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICB1 -	1	8/5/16 9:13	13929-1.RAW-	9:13:01-	6.87	-		6.1	0.015	0.015	ng/L	
Hg2700-1	DM2	BLK	F607432-BLK7 -	500	8/5/16 9:23	13930-1.RAW-	9:23:32	4.05		X	3.2	0.010	5.002	ng/L	
Hg2700-1	DM2	BLK	F607432-BLK8 -	500	8/5/16 9:34	13931-1.RAW "	9:34:03	2.24		x	1.4	0.004	2,202	ng/L	
Hg2700-1	DM2	BLK	F607432-BLK9 ~	500	8/5/16 9:44	13932-1.RAW -	9:44:33	2.60		×	1.8	0.006	2.769	ng/L	
Hg2700-1	DM2	SAM	*F607432-BLKA ~	500	8/5/16 9:55	13933-1.RAW -	9:55:04	3.20		x	2.4	0.007	3,687	ng/L	~
Hg2700-1	DM2	SAM	*F607432-BLKB	500	8/5/16 10:05	13934-1.RAW-	10:05:35	1.09		×	0.3	100.0	0.431	ng/L	
Hg2700-1	DM2	SAM	*F607432-BLKC	500	8/5/16 10:16	13935-1.RAW -	10:16:05	0.00	,	x	-0.8	-0.002	-1.250	ng/L	
Hg2700-1	DM2	SAM	F607432-BS2 -	2000	8/5/16 10:26	13936-1.RAW -	10:26:36	1180.48		x	1179.7	3.641	7282,314	ng/L	**************************************
Hg2700-1	DM2	SAM	F607432-BSD2	2000	8/5/16 10:37	13937-1.RAW -	10:37:07	1332.96		x	1332.1	4.112	8223.560	ng/L	
Hg2700-1	DM2	SAM	1607541-01RE1 -	500	8/5/16 10:47	13938-1.RAW ~	10:47:37	37.89		x	37.1	0.114	57.224	ng/L	
Hg2700-1	DM2		1607655-01RE1 -	2500	8/5/16 10:58	13939-1.RAW	10:58:08-	138.64		x	137.8	0.425	1063.595	ng/L	——————————————————————————————————————
Hg2700-1	DM2	CAL	SEQ-CCV1 •	1	8/5/16 11:08	13940-1.RAW ~	11:08:39-	263.52-			262.7	0.652	0.652	ng/L	
Hg2700-1	DM2		SEQ-CCB1 /	1	8/5/16 11:19	13941-1.RAW -	11:19:09	4,42			3.6	0.009	0.009	ng/L	
Hg2700-1	DM2	SAM	F607432-BS3 **	2000	8/5/16 11:29	13942-1.RAW ~	11:29:40	1059.23		×	1058.4	3.267	6533,797	ng/L	
Hg2700-1	DM2	SAM	F607432-BSD3 ~	2000	8/5/16 11:40	13943-1.RAW	11:40:11	1093.34		x	1092.5	3,372	6744.330	ng/L	
Hg2700-1	DM2	SAM	1607655-02RE1 *	2500	8/5/16 11:50	13944-1.RAW*	11:50:42 ~	190.32	1	x	189.5	0.585	1462.308	ng/L	
Hg2700-1	DM2	SAM	1607655-03RE1 -	2500	8/5/16 12:01	13945-1.RAW-	12:01:13	167.26		× i	166.5	0.514	1284.419	ng/L	,
Hg2700-1	DM2		1607655-04RE1_	2500	8/5/16 12:11	13946-1.RAW ~	12:11:43	184.35		K .	183.5	0.567	1416.272	ng/L	
Hg2700-1	DM2		1607655-05RE1-	2500	8/5/16 12:22	13947-1.RAW	12:22:14-	104.26		ĸ	103.4	0.319	798.234	ng/L	
Hg2700-1	DM2		1607723-01RE1 +	2500	8/5/16 12:32	13948-1.RAW "	12:32:45	319.48	,	Κ	318.7	0.984	2458.975	ng/L	
Hg2700-1	DM2		1607723-02RE1 ~	2500	8/5/16 12:43	13949-1.RAW -	12:43:15	389.16		(388.4	1.199	2996.687	ng/L	
Hg2700-1	DM2		1607723-03RE1 -	2500	8/5/16 12:53	13950-1.RAW ~	12:53:46	709.79	,		709.0	2.188	5470.814	ng/L	
Hg2700-1	DM2		1607723-04RE1 -	2500	8/5/16 13:04	13951-1.RAW~	13:04:17-	820.50	,	(819.7	2.530	6325.095	ng/L	
Hg2700-1	DM2		SEQ-CCV2 *-	1	8/5/16 13:14	13952-1.RAW -	13:14:47	235.57			234.8	0.583	0.583	ng/L	
Hg2700-1	DM2		SEQ-CCB2 -	1	8/5/16 13:25	13953-1.RAW ~	13:25:18	3.29 -			2.5	0.006	0.006	ng/L	
Hg2700-1	DM2		1607723-05RE1 -	2500	8/5/16 13:35	13954-1.RAW ~	13:35:49	660.04 -)	(659.2	2.035	5086.913	ng/L	
Hg2700-1	DM2		1607723-06RE1 ~	2500	8/5/16 13:46	13955-1.RAW ~	13:46:19-	897.37-)	4	896.6	2.767	6918.289	ng/L	~
Hg2700-1	DM2		1607723-05RE2 ~	2500	8/5/16 13:56	13956-1.RAW ~	13:56:50 ~	582.92)		582.1	1.797	4491.816	ng/L	**************************************
Hg2700-1	DM2		1607723-06RE2 -	2500	8/5/16 14:07	13957-1.RAW -	14:07:21	749.26			748.4	2.310	5775.342	ng/L	
Hg2700-1	DM2		1607800-01RE1 ~	500	8/5/16 14:17	13958-1.RAW -	14:17:51-	8.03	,	i	7.2	0.022	11.146	ng/L	
Hg2700-1	DM2		F607432-DUP2	2500	8/5/16 14:28	13959-1.RAW ~	14:28:22	141.69)		140.9	0.435	1087.099	ng/L	
Hg2700-1	DM2		F607432-MS3 ~	2500	8/5/16 14:38	13960-1.RAW ~	14:38:53	270.11	×		269.3	0.831	2078.016	ng/L	
Hg2700-1	DM2		F607432-MSD3 -	2500	8/5/16 14:49	13961-1.RAW ~	14:49:23	266.70~	×		265.9	0.821	2051.728	ng/L	
Hg2700-1	DM2		F607432-MS4 _	500	8/5/16 14:59	13962-1.RAW ,	14:59:54	456.87	. х		456.1	1.408	703.839	ng/L	
Hg2700-1	DM2		F607432-MSD4	500	8/5/16 15:10	13963-1.RAW -	15:10:25	443.09 -	×	T	442.3	1.365	682.568	ng/L	
Hg2700-1	DM2		SEQ-CCV3 -	1	8/5/16 15:20	13964-1.RAW -	15:20:55	221.81			221.0	0.549	0.549	ng/L	
Hg2700-1	DM2		SEQ-CCB3 ~	1	8/5/16 15:31	13965-1.RAW -	15:31:26~	3.49			2.7	0.007	0.007	ng/L	
Hg2700-1	DM2		SEQ-CCV4 ~	1	8/5/16 15:56	13966-1.RAW -	15:56:12	211.53			210.7	0.523	0.523	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB4 -	1)	8/5/16 16:06	13967-1.RAW "	16:06:42	1.52	i_		0.7	0.002	0.002	ng/L	

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versea.	şarılırı.	Sample	I			ă.		Uncorrected		No PB	ANA KANE				
nstrument	Analyst	Type	LabNumber	Dilution	Analyzed	FileID	Run End	Response	Batch ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
lg2700-1	DM2	CAL	SEQ-CCV5	1	8/5/16 17:47	13968-1.RAW	17:47:33	(174.56)		173.7	0.431	0,431	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB5	1	8/5/16 17:58	13969-1.RAW -	17:58:04	2.93	+		2.1	0.005	0.005	ng/L	
Hg2700-1	DM2	BLK	F608200-BLK1 -	1.25	8/5/16 18:08	13970-1.RAW-	18:08:35	2.63	- 1		1.8	0.006	0.007	ng/L	
Hg2700-1	DM2	BLK	F608200-BLK2	1.25	8/5/16 18:19	13971-1.RAW	18:19:06	4.36	- 1		3.5	0.011	0.014	ng/L	
Hg2700-1	DM2	BLK	F608200-BLK3	1.25	8/5/16 18:29	13972-1.RAW -	18:29:37	0.94	1		0.1	0.000	0.001	ng/L	
Hg2700-1	DM2	SAM	F608200-BS1	1.25	8/5/16 18:40	13973-1.RAW -	18:40:08	539.04	- 1		538.2	1.656	2.070	ng/L	
Hg2700-1	DM2	SAM	F608200-BSD1	1.25	8/5/16 18:50	13974-1.RAW -	18:50:39	455.44	- 1		454.6	1.398	1.747	ng/L	
Hg2700-1	DM2	SAM	F608200-DUP1 -	1.25	8/5/16 19:01	13975-1.RAW -	19:01:10	47.42	- 1		46.6	0.138	0.173	ng/L	
Hg2700-1	DM2	SAM	F608200-MS1 -	1,25	8/5/16 19:11	13976-1.RAW	19:11:41	540.38	- 1		539.6	1.660	2.075	ng/L	^
Hg2700-1	DM2	SAM	F608200-MSD1 -	1.25	8/5/16 19:22	13977-1.RAW	19:22:12	586.22	- 1		585.4	1,801	2.252	ng/L	
Hg2700-1	DM2	SAM	F608200-MS2	1.25	8/5/16 19:32	13978-1.RAW -	19:32:42	596.43	- 1		595.6	1.833	2.291	ng/L	
Hg2700-1	DM2	SAM	F608200-MSD2	1.25	8/5/16 19:43	13979-1.RAW ~	19:43:13	576.30	- 1		575.5	1,771	2.213	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV6 ~	1	8/5/16 19:53	13980-1.RAW	19:53:44	(189.32)			188.5	0.468	0.468	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB6	1	8/5/16 20:04	13981-1.RAW	20:04:15	6.60	-	,	5.8	0.014	0.014	ng/L	
Hg2700-1	DM2	SAM	1607339-01RE1 -	1.25	8/5/16 20:14	13982-1.RAW ~	20:14:46	34.59	- 1		33.8	0.099	0.123	ng/L	
Hg2700-1	DM2	SAM	1607339-02RE1 +	1.25	8/5/16 20:25	13983-1.RAW -	20:25:17	33.11	- 1		32.3	0.094	0.118	ng/L	
Hg2700-1	DM2	SAM	1607380-01RE1	1.25	8/5/16 20:35	13984-1.RAW	20:35:48	37.72	1		36.9	0.108	0.135	ng/L	
Hg2700-1	DM2	SAM	1607380-03RE1	1.25	8/5/16 20:46	13985-1.RAW	20:46:19	30.74	1		29.9	0.087	0.108	ng/L	~ · · · · · · · · · · · · · · · · · · ·
Hg2700-1	DM2	SAM	1607380-05RE1	1.25	8/5/16 20:56	13986-1.RAW	20:56:50	55.02	1		54.2	0.162	0.202	ng/L	
Hg2700-1	DM2	SAM	1607380-07RE1	1.25	8/5/16 21:07	13987-1.RAW	21:07:22	74.29	1		73.5	0.221	0.276	ng/L	
Hg2700-1	DM2	SAM	1607380-09RE1	1.25	8/5/16 21:17	13988-1.RAW	21:17:53	226.27	1		225.5	0.690	0.863	ng/L	· · · · · · · · · · · · · · · · · · ·
Hg2700-1	DM2	SAM	1607380-13RE1	1.25	8/5/16 21:28	13989-1.RAW	21:28:24	287.45	1		286.6	0.879	1.099	ng/L	
Hg2700-1	DM2	SAM	1607586-01RE1	1.25	8/5/16 21:38	13990-1.RAW	21:38:55	94.12	1		93,3	0.282	0.353	ng/L	
Hg2700-1	DM2	SAM	1607586-02RE1	1.25	8/5/16 21:49	13991-1.RAW	21:49:26	71.50	1		70.7	0.213	0.266	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV7	1	8/5/16 21:59	13992-1.RAW	21:59:57	196.08		1	195.3	0.485	0.485	ng/L	
Hg2700-1	DMZ	CAL	SEQ-CCB7	1	8/5/16 22:10	13993-1.RAW	22:10:28	0.88			0.1	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1607586-03RE1	1.25	8/5/16 22:20	13994-1.RAW	22:20:59	103.06	1		102.3	0.310	0.387	ng/L	
Hg2700-1	DM2	SAM	1607586-04RE1	1.25	8/5/16 22:31	13995-1.RAW	22:31:30	60.04	1		59.2	0.177	0.221	ng/L	
Hg2700-1	DM2	SAM	1607586-05RE1	1.25	8/5/16 22:42	13996-1.RAW	22:42:01	212.64	1		211.8	0,648	0.810	ng/L	
Hg2700-1	DM2	SAM	1607586-06RE1	1.25	8/5/16 22:52	13997-1.RAW	22:52:32	80.27	1		79.5	0.240	0.299	ng/L	
Hg2700-1	DM2	SAM	1607586-07	1.25		13998-1.RAW	23:03:03	52.59	1		51.8	0.154	0.193	ng/L	
Hg2700-1	DM2	SAM	1607586-08	1.25		13999-1.RAW	23:13:35	20.82	1		20.0	0.056	0.070	ng/L	
Hg2700-1	DM2	SAM	1607586-09	1.25		14000-1.RAW	23:24:06	26.82	1		26.0	0.035	0.093	ng/L	
lg2700-1	DM2	SAM	1607586-10	1.25	8/5/16 23:34	14001-1.RAW	23:34:37	16.26	1		15.5	0.042	0.053	rg/L	
Hg2700-1	DM2	SAM	1607586-11	1.25		14002-1.RAW	23:45:08	34.34	1		33.5	0.098	0.122	ng/L	
lg2700-1	DM2	SAM	1607586-13	1.25		14003-1.RAW	23:55:39	31.04	11		30.2	0.088	0.122	^-^	
Hq2700-1	DM2		SEQ-CCV8	1		14004-1.RAW	0:06:10	212.55			211.7	0.000	0.526	ng/L	
lg2700-1	DM2	CAL	SEQ-CCB8	1		14005-1.RAW	0:16:41	0.73						ng/L	
IME/UU-I	D1.18	UAL	DEG CODE		0/0/10 U:16	T-LOUD-T'KWA	0:16:41)	Ų./3		<u>i</u>	-0.1	0.000	0.000	ng/L	

Methy:Mercury EPA1630	Operat DM Worksl MHq27/ Methor 2010-0 Descrip MHq27/	Calibfe R:	402.66 0.9979	Status:	Conc = (Area OK.1 Warning 0.995872366		Run Date: ####################################		(32.0758072 7.96589722) 5							
Sample/ID	Location Rinse	Dilute	.Biank	CancHa0(a	CondMeHa(oo	ConcHo2/ex	ConcPrHo(; Rec%	OA	RawData	, RunEnd	PeakHg0 (Rav	Реакиено (R. Р	eakHu2(Raw	PeakPrHg(Rav	Control (etf)	Flags	RunCount
Clean -			0.00		0.00				13920-1.RAW		0.00	0.46			deandry	CK	
ws	AJ					0.03			13921-),RAW	2.20.33	7.93	0.00 v 0.81 v	27.99 29.09		psample10 psample10	OK OK	
SEQ-IBL1 ~	A2	1	0.00	0.02	5.00 5.05	G.G7 C.06	98,78		13922-1.RAW 13923-1.RAW	7:59:27 8:09:57	9.49	20.70 🛩			psample10	OK	
SEQ-CAL2 ~	A3 A4	1	0.81	0.05		0.08	96.41		13924-1.RAW	8:20:28	66.15	78.45			psample10	CT	
SEQ-CAL3 -	A5	î	0.81	0.71	1.13	0.14	113.27		13925-1.RAW	8:30:58	285.32	456.93	55.4C		osample10	С	
SEQ-CAL4~	A6	1	0.81	1.36	1.99	0.20	99.47		13926-1.RAW	8:41.29	547.72	801.88	82.31		psample10	CT.	
SEQ-CALS -	A7	1	0.61	3.12	3.69	0.33	92.07		13927-1.RAW	8:52:00	1257.75	1483.68			psample10	C7	
SEQ-ICV1 =	84	1	0.81	2 34	0.62	0.39	123.37		13928-1.RAW	9:02:30	943.96	2,46.88 🕶	156.86 27.74		psample10	C.	
SEQ-ICB1	A9	1	0.81		0.07	D.D7	0.00		13929-1.RAW 13930-1.RAW	9:13:01 9:23.32	23.98	6.87 ** 4.05113636 *			psample10 psample10	CT	
F607432-BLK7	A10 A11	500 500	0.8099		4.G246852 1.771405185				13930-1.RAW	9:34:D3	23.6647727				sample10	OK	
F607432-8LK8 ← F607432-BLK9 ←	A12				2.228028982				13932-1.RAW	9:44:33	25 6694602				sample10	OK	
*F607432-BLKA	A13	500			2.966805305				13933-1.RAW	9:55:04	23.6380682	3.19919508			rsampie10	כד	
"F607432-BLK8	A14	500	0.8099	30.17385\$	0.346684749	80.265144			13934-1.RAW	10.05:35	25.1098011	1.08929924~			sampre10	CT	
F607432-BLKC	A15	50C							13935-1,RAW	1D:16:05			60.1540483		osample)0	C C	
F607432-BS2 -	A16				5859.349758				13936-1.RAW	10:26:36 10:37.07	152.114953 157.427125	1180.4848			osample10 osample10	C1	
F607432-B5D2	A17				6616.676772 46.04271821				13937-1.RAW 13938-1.RAW	10:32:07	250.782623				nsample10	Cf	
1607541-01RE1 +	A18 A19	2500		304.58769					13939-1.RAW	10:58:08	49.8685843	138.641792 ✓			sample 10	OK	
SEQ-CCV1 -	A20	2500			0.652431536		130.65		13940-1.RAW	11:08.39	1005.5685	263.520691 ~			sample10	CT	
SEO-CCB1 ~	A21				0.008967382		0.00		13941-1.RAW	11:19:09	27.0424242	4.42078598 ~	35.3652462		samole10	QK.	
F607432-BS3 #	B1				5257.093182				13942-1.RAW	11:29:40	172.324729	1059.23125	196.437074	0 g	sample10	CT	
F607432-BSD3 -	82	2000	0.8099	785.330:8	5426.48792	970.D6709			13943-1.RAW	11:40:11		1093.33584			sample10	CT	
1607655-02RE1 -	B3	2500	C.8099	277.5616					13944-1.RAW	17:5D:42					sample 10	CT	
1607655-G3RE1 •	B4			255 993 89					13945-1.RAW	12:01:13	42.0417614 46.4076276	167.262192 - 184.349503 -			sample10 sample10	©K □	
1607G55-04RE1	85	2500			1139.532714				13946-1.RAW	12:11:43	36.4060606	104.255824			sample10	DK.	•
1507655-05RE1 = 1607723-01RE1 =	86 87	2500	0.8099		642.2591698 1978.491264	345.88725			13947-1.RAW 13948-1.RAW	12:32:45	42.450947				Sample 10	cī	
1607723-01RE1*	B.E.				2411.134742				13949-1.RAW	12:43:15	46.415554	389.16089 -			sample10	OK	
1607723-03RE1 F	89				4401.816947				13950-1.RAW	12:53:96	66.3831203	709.791383 ~			sample10	OK	
1607723-04RE1 ~	B10				5089.171428	384.94124			13951-1.RAW	13:04:17					sample10	OK	-
SEQ-CCV2	B11	1		2.4148575			116.75		13 5 52-1.RAW	13:14:47	985.266269	235.567306 ~			sample10	CT	:
SEQ-CCB2 ~~	812	1			0.006152324		0.00		13953-1 RAW	13:25:18	27.7219223	3.28726326-			sample10	CT.	
1607723-05RE1 ~	B13			371.77402					13954-1.RAW	13:35:49 13:46:19	50.6899621 72.7667614	660.040317 <- 1 897.374621 **			sample10 sample10	OK	
1607723-06RE1 -	814 815			446.75463 353.78349	5565.455445 3614.115469	269.6097			13955-1.RAW 13956-1.RAW	13:56:50	57.7923059	587.919744			sample10	OK	
1607723-05RE2 + 1607723-06RE2 -	B16			427.20268		315.60265			13957-1.RAW	14:07:21		749.256155			sample10	CT	
1607800-01RE1 *	B17				8.968-11205		1458.41		13958-1. RAW	14:17:51	32.0291667	8.03245739~		0 p	sample10	OK	,
F607432-DUP2	B18	2500	0.8099	217.35828	874.6798886	307.07355			13959-1.RAW	14:28.22	35.818892	141.690814			sample10	Οĸ	1
F607432-MS3	\$19				1671.971995		190.50		13960-1.RAW	14:38:53	46.3931818	270.107173~			sample10	OK	1
6607432-MSD3	B20			277.92966					13962-1.RAW	14:49:23	45.574892	266.700331 = 456.874384 = :			sample10	0.2	
F607432-M54	B21			281,40784			34.22		13962-1.RAW 13963-1.RAW	14:59:54 15:10:25	227.435603 181.14143	443.091264 *:			sample:0 sample:0	CT.	
F607432-MSD4 ~* SEQ-CCV3 ~*	C1 C2	500			549.1939016 0 548833759		109.90		13964-1.RAW	15:20:55	1021.61994	221,605587			sample10	cī	
SEQ-CCB3 ~	C2	1		0.0667153	0.00669443		0.00		13965-1.RAW	15:31:26	27.6738163	3.48541667-			sample10	OK	
SEQ-CCV4	A1	1	0.8099	2.5342446	0.523303041		104.79		13966-1.RAW		1021.25924	211.525284~			sample10	CT	:
SEQ-CCB4 -	A2	1			0.001262585		0.00		13967-1.RAW	16:06:42		1.5196733			sample10	OK	
SEQ-CCV5 -	81	1			0.425618885		85.23		13968-1.RAW		977.621784	172.191383 - 1			sample10	CT	
SEQ-CCB5~	B2				0.005271531		00.0		13969-1.RAW		26.4362216 20.9616477	2.93259943 ~ 1 2.63023201 ~ 1			sample10 sampie10	OK CT	
F50820G-8LK1	A3				0.005650767				13970-1.RAW 13971-1.RAW		12.4515152				sample10	DK.	1
F608200-BLK2 ← F608200-BLK3 ←	A4 A5				0.000416026				13972-1.RAW		10.2450284	0.94460227 - 2			sample 10	OK	-
F6082DG-BS1	46				1.670827442				13973-1.RAW		14.6467093	539.035707			sample10	OK	1
F608200-6SD1	A7			0.1380221	1.411313314				13974-1.RAW		45.2711648	455.438092 - 5			sample10	OK	1
F608200-DUP1	AS	3.25			0.144706207				13975-1.RAW		13.2706333	47.4243371- 5			sample10	OK	1
F608200-MS1	A9				1.675004149		167.50		13976-1.RAW		17.7857898	540.381155.*			sample10	OK	1
F608200-MSD1	GEA				1.817290247		22.45		13977-1.RAW 13978-1.RAW		17.1550189	586.215956**			sample10 sample10	OK CT	
H608200-MS2 =	A11		0.8099		1.848988752		92.45		13976-1.RAW 13979-1.RAW		20.7942235	596.427036 - 6 576.299384 = 5			sample10	OK .	
F608200-MSD2	A12 A13	1.25	0.8099		1.786505989 0.477283135		95.58		13980-1.RAW			192.994721 **:			sample10	CT	-
SEQ-CCV6 ~ SEQ-CCB6 ~	A14				0.014371141		D.DC		13981-1.RAW	20:D4:15	22.2117424				sample10	OK	1
1607339-01RE1 -	A25				0.104864141				13982-1.RAW		29.1299953	34.5899621 = 5	7.4653033	0 0	sample10	CT	2
1607339-02RE1	A16		0.8099		D.D99999744				3983-1.RAW		34.0883609	33.0229877 * 3			szmple10	CT	3
:607380-01RE1 -	A17		0.8099		0.114677305				3984-1,RAW		12.5785985	37.751089 -			sample10	OK	
1607360-03RE1 +	A2B		0.6099		D.D92903452				13985-1.RAW		24.5761364	30.7370502 - 3			sample10	נד כד	1
1807360-05RE1 *	A19				0.168298559				13986-1.RAW 13987-1.RAW		27.8548532 28.6415483	55.0241714 - 4 74.2931818 - 6			sample10 sample10	QK	1
1607380-07RE1	A20		0.8099	0.0863983	0.22811582 0.699911415				13967-1.RAW 13988-1.RAW		64.4014634	226,273295 ~ 7			sample10	CT	1
1607380-09RE1 * 1607380-13RE1 *	A21 91				0.869821334				3989-1.RAW		27.356108	287,449219			sample10	Ct	1
1607586-01RE1 *	B2				0.289670004				1399C-1.RAW		22.541714	94.1217093 - 1			sample10	ЭK	1
1607586-02RE1 =	83				0.219433854				13991-1.RAW		22.8819602	71.4964489 -	9.8030777	0 p	sample10	CT	1
SEQ-CCV7 ~	B4	1	0.8099	2.4602318	0.484957108		97.11		13992-1.RAW		991.45695	196.084754 - 1			sample10	CŢ	1
SEQ-CC87 -	B5	1	0,8099	0.0480061	0.000169562	0.0751664	0.00		13993-1.RAW		20.1402936	0.8782197 - 3			sample 10	OK	1
1607586-03RE1	B6			0.0528397	0.31742174				13994-1.RAW						sample 10	CT	1
1607586-04RE1	87				0.183869348				13995-1.RAW			60.0400095~ 2 212.643987~ 2			sample10 sample10	OK CT	1
1607S86-05RE1 ≠	B6				0.657601618				13996-1,RAW 13997-1,RAW			212.693987° 2 80.2705966°°			sample10 sample10	OK	,
1607586-06RE1 *	89	1.25	0.8099	0.031563	0.246671656	v. 497 80 81					,u.,v.;u.;u.;	Ju. 41 V 3 700	20.7023/1	υp	au reprodu		

MethylMercury EPA1630	Operat DM Worksl MHq270 Methox 20:0-01 Descrip MHq270	Calibfr R:	402.66 0.9979	Status:	Conc = (Area- OK,1 Warnings 0.995872366	-0.810) / 4(Run Date: ###### Run Time: 17:37:00 CalibAnali MeHq	Blank SD: Blank RSC CF SD: CF RSD%		0 0 7580726 5697223)						
	Location Rinse	Dilute	Blank		ConditeHa(pp	ConcHq2(p	ConcPrHq(t Rec%	QA .	RawD8t 13920-1	2 100	RunEnd 7:38:25	PeakHg0 (Ran 0 00	PeakHeHo (R 0.46	PeakHq2(Raw 0.00	PeakPrHq(Ra-)Control (etf) 0.00 cleandry	Flacs OK	RunCount 1
Clean ws	A1		0.00						13921-3	.RAW		7.91	0.00	27.99	0.00 psample10	OK.	1
SEQ-IBL1	A2	1	0.50	0.02	0.00	0.07	98.78		13922-1		7:59:27 8:09:57	9.49 22.41	0.81 20.70	29.39 26.68	0.00 psample10 0.00 psample10	OK OK	1
SEQ-CAL1 SEQ-CAL2	A3 A4	3	0.81	0.16	0.05	0.08			13924-1		B:20:28	66.15	78.45	32.64	0.00 psample10	C:	1
SEQ-CAL3	AS	2	0.81	0.71	1 13	0.14	113.27		13925-1		8:30:58	285.32	456.93	55.40	0.00 psamole10	CT.	1
SEQ-CAL4	Aδ	2	0.81	1.36	1.99	0.20	99.47 92.07		13926-1		8:41:29 8:52:00	547.72 1257.75	801.88 1483.68	82.31 133.83	0.00 psample10 0.00 psample10	כד כד	1
SEQ-CALS	A7 A8	1	0.81	3.12 2.34	3.6£ 0.62	C.33 C.39			13928-1		9:02:30	943.96	248.88	156.86	0.00 psample10	CT.	1
SEQ-IOVI SEO-ICBI	AS A9	1	0.81	D.D6	0.02	0.07	9.00		13929-1		9:13:01	23.98	6.87	27.74	0.00 psample10	CK	1
F607432-BLK7	AlD	5D0		31.766473	4.0246862	62.435874			13930-1		9:23:32	26.3923792		51.0913116	0 psample30	CT	1
F607432-BLKB	A11	500		28.379523					13931-1		9:34:03 9:44:33	23 6647727 25.6694602	2.73650568 2.60423769	56.4630208 56.577983	G psample10 G psample10	OK OK	*
F607432-BLK9	A12 A13	500 500		30.868803	2.228026982 2.966805305				13933-1		9:55:04	23.6380662	3 19919508	59.3575994	0 psample10	CT	î
*F607432-BLKA *F607432-BLKB	A14	500	0.8099						13934-1		10:05:35	25.1098011	1.08929924		0 psample10	CT	1
*F607432-BLKC	A15	500							13935-1		10:16:05	25.1705019	0	60 1540483	D psample10	CT	1
F607432-BS2	A16	2000			5859.349758				13936-1 13937-1		10:26.36 10:37:07	152.114953 157.427125	1180.4846 1332.959		0 psample10 0 psample10	G	1
F607432-BSD2	A17	2000 500		777.90489 310.39853	66:6.676777 46.04271821				13938-1		10:47:37	250.782623	17.8894413		D psample10	C7	i
1607541-01RE1 1607655-01RE1	A19	2500	0.8099						13939-1		10:58:08	49.8685843	138.644792	57 8151515	0 psample10	OK.	1
SEQ-CCV1	A20	1	0.8099	2.4952773	0.652431536	0.4254863	130.65		139-10-1		11:08:39	1005.5685			0 psample10	CT	1
SEQ-CCB1	A21				0.008967382		0.00		13941-1		11:19:09	27 0424242	4.42078598	35.3652462	0 psample10 0 psample10	OK CT	1
F607432-BS3	81	2000 2000		851.90009 786.33018	5257.093182 5426 48792				13942-1 13943-1		11:29:40 11:40:11	172.324729	1059.23125	196.437074 196.115532	0 psample10	CT	i
F607432-BSD3 1607655-02RE1	B2 B3	2500	0.8099	277.5616					13944-1		11:50:42	45.5155777	190.315483		0 psample10	CT	7
1607655-03RE1	B-4			255.99389	1033.4436				3945-1	.RAW	12:01:13	42.041.7614	167.262192	54.0101562	0 psample10	(T	1
1607655-04RE1	B5	2500			1139.532714				13946-1		12:11:43	40.4076276	184,349503	53.3727036	0 psample10 0 psample10	OK OK	1
1607655-05RE1	86	2500 2500	0.8099		642.2591698 1978.491264				13947-1 13948-1		12:22:14 12:32:45	36.4060606 42.450947	104.255824 319.476894	52.6880208 56.5204933	0 psample10	CT	i
1607723-01RE1 1607723-02RE1	67 88	2500			2411.134742				13949-1		12:43:15	46.415554	389 16089		0 psample10	OK	1
1607723-03RE1	89			407.12084					13950-1		12:53:46	66.3831203	709.791383	79.4039773	0 psample10	OK	1
1607723-04RE1	B10				5089.171428				13951-1		13:04:17 13:14:47	71.2546638 985.266269	820.500568 235.567306	62.8107483 168.296862	C psample10 0 psample10	OK CT	1
SEQ-CCV2	B21	1	0.8099	2.4448575 0.0668348	0.583010432 0.006152324		116.75 0.00		13952-1 13953-1		13:25:18	27.7219223	3.28726326	31.6917614	0 psample10	CI	i
SEQ-CCB2 1607723-05RE1	812 813			371.77402			0.00		13954-1		13:35:49	60.6899621	660.040317	70.8201743	0 psample10	ĊТ	1
1607723-06RE1	B14	2500	0.8099	446.75463	5566.455445	394.14568			13955-1		13:46:19	72.7667614	B97.374621	54.293267	0 psample10	OK	1
1607723-05RE2	B15			353.78349		269.6097			13956-1		13:56:50	57.7923059 69.6176136	582.919744 749.256155	44.2348011	D psampie10 D psampie10	OK CT	1
1607723-06RE2	816 B17	2500 500	0.6099				1456.41		13957-1 13958-1		14:07:21 14:17:51	32.0291567	8.03245739		0 psample10	OK .	1
1607800-01RE1 F607432-DUP2	B18				874.6798866		1436.42		13959-1		14:28:22	35,618892	141.690814		0 psample10	OK	1
F6C7432-MS3	819	2500	0.8099	283.01033	1671.971995	346.99925	190.50		13960-1		14:38:53	45.3931618	270.107173	56.6995975	0 psample10	OK	1
F607432-MSD3	820				1650.820109		2.22		13961-1		14:49:23 14:59:54	45.574892 227.435603	266.700331 456.874384	58.3297822 118.278456	0 psample10 0 psample10	CT CT	1
F607432-MS4 F607437-MSD4	B21 C1	500 500	0.8099	261.40784 223.92298	566.3088129 549.1939016		34.22		13962-1 13963-1		15:10:25	181.14143	443.091264	134.821005	0 psample10	CT	î
SEQ-CCV3	C2		0.8099		0.546833759		109.90		13964-1		15:20:55	1021.61994	221.805587	170 705569	0 psamole10	CT	1
SEQ-CC83	C3	3		0.0667153	0.00664443	0.1018964	0.00		13965-1		15:31.26	27.6738163	3.48541667	41.8399621	0 psample10	CK	1
SEQ-CCV4	A1	1		2.5342446			104.79		13966-1 13967-1		15:56:12 16:06:42	1021.25924 32.4508049	211.525284	168.609943 44.0322443	0 psample10 0 psample10	OK CT	3
SEQ-CCB4 SEQ-CCVS	A2 B1	1			0.001762586		0.00 86.41		13968-1		17:47:33	977.621.764		136.242165	0 psample10	CT	1
SEO-CCB5	B2				D.005271531		0.00		13969-1		17:58:04	26.4362216	2.93759943	30.7214962	0 psample1D	OK	1
F608200-8LK1	A3				0.005650767				13970-1		18:08:35	20.9615477	2.63023201	38.0658617	0 psample10	OK CU	1
H608200-BLK2	A4				0.011017853				13971-1 13972-1		18:19:06 18:29:37	12.4469934	4.35913826 0.94460227	46.4441761 28.4150161	0 psample10 0 psample10	DK.	1
F608200-BLK3 F608200-BS1	AS A6				0.000416026 1.679827442				13973-1		18:40:08	14.6467093	539.G35707	41.4246212	G psample10	OK	i
P608200-BSD1	A7	1.25			1.411313314				13974-1		18:50:39	45.3325284	455.438092	59.8702178	0 psample10	OK	1
F608200-DUP1	AB BA				0.144706207				13975-1		19:01:10	13.2708333	47.4243371 540.381155	56.3678267 55.624053	G psample10 G psample10	OK OK	1
F608200-MS1	A9	1.25			1.675004149		167.50		13976-1 13977-1			17.7357955 17.1550189	586.215956	62.7742187	0 psample10	OK	1
P508200-MSD1 P508200-MSZ	A10 A11				1.617290247		92.45		13978-1			20.7942235	596.427036	61.9223485	0 psample10	CT	1
F608200-MSD2	A12			0.0645838	1.786505989	0.1757786			13979-1	,RAW	19:43:13	21.6143939	576.299384	57.4337358	C psample10	OK	1
SEQ-CCV6	A13	2	0.8099		0.468145191		93.75		13980-1		19:53:44 20:04:15	1013.57456	189.315199	141.038565 28.5802557	0 psample10 0 psample10	CT OK	1
SEQ-CCB6	A14	1.25	0.8099		0.014371141		0.00		13981-1 13982-1		20:04:15	29.1299953	34.5899621	57.4853033	0 psample10	CT	1
1607339-01RE1 1607339-02RE1	A15 A16				0.100277105				13983-1		20:25:17	34.0941051	33.1123343	73.0818892	0 psampie10	CT	1
1607380-01RE1	A17	1.25	0.6099	0.0365337	0.114585733	0.2027142			13984-1		20:35:48	12.5785985	37.7215909	66.110535	0 osampre10	OK	1
1607380-03RE1	ALB		0.8099		0.092903452				13985 1		20:46:19	24.5761364	30.7370502	36.9724905 47.7551533	0 psampie10 0 psampie10	כד כד	1
1607380-05RE1	A19			0.0839562	0.168298559 0.22811582				13986-1 13987-1		20:56:50 21:07:22	27.8548532 28.6415483	74.2931818	68.1919276	0 psample10	OK	1
1607380-07RE1 1607380-09RE1	A20 A21				0.699911415				13986-1		21:17:53	64.4014634	226.273295	72.7867424	0 psample10	CT	1
1607380-03RE1	Bi			0.0824079	0.889821334	0.2345587			13989-1	.RAW	21:28:24	27.356108	287.449219	76.3696422	0 psample10	ст	1
1607586-01RE1	62	1.25		0.0674625					13990-1		21:38:55	22,541714	94.1217093	127.067519	0 psample10	OK CT	1
1607586-02RE1	83 84				0.219433854 0.484957108		97.11		13991-1 13992-1		21:49:26 21:59:57	22.9336884 991.45695	71.4964489 196.084754	69.8030777 144,766572	0 psample10 0 psample10	CT	1
SEQ-CCV7 SEQ-CCB7	85		0.6099		0.000169562		0.00		13993-1		22:10:28	20.1893465	0.8782197	30.9402936	0 psample10	OK	1
1607586-03RE1	86	1.25	0.8099	0.0528397	0.31742174	0.9691.725			3994-1		22:20:59	17.83125		313.010723	0 psample10	CT	1
1607586-04RE1	87				0.183859348				13995-1		22:31:30	10.9951231		79.5272017 241.458299	0 psample10 0 psample10	OK CT	1
1607586-05RE1 1607586-06RE1	89 89		0.8099		0.657601618 0.246671656				13996-1 13997-1			19.4039773 10.9838305		96.752571	0 psample10	OK	1
100,000,00KET	92	4.44	V. CL. J.	3.431703													

1607585-07	810	1.25 0.8099 0.1170682 0.160740146 0.1898721		13998-1.RAW	23:03:03 38	.521283; 52.5893703	61.9736742	0 psample10	CT	1
1607586-08	811	1.25 0.8099 0.0365774 0.062119709 0.181247		13999-1.RAW	23:13:35 1.	2.592661 20 8206439	59 195259	0 psample10	ÐK	1
		1.25 0.8099 0.0272262 0.080748596 0.2204395		14000-1.RAW	23:24:06 9.5	58035038 26.6715909	71.8203935	0 psample30	ЭK	1
1607585-09	812	1.25 0.8099 0.0222202 0.0807-0336 0.220-330 1.25 0.8099 0.1429189 0.047967767 1.1125098		14001-1.RAW	23 34:37 46		359.18413	0 psample10	CT	1
1607585-10	513			14002-1.RAW	23:45:08 12		66.878054	0 osamole10	OK	1
1607585-11	514	1 25 0.8099 0.0372492 0.104083798 0.2050969			23:55:39 8.4			0 osamole10	OK	Ţ.
1607586-13	815	1.25 0.8099 0.0238581 C.09382865 0.180648		14003-1.RAW					CT.	:
SEQ-CCV8	816	1 0.8099 2.2329052 0.525843414 0.4505674	105.30	14004-1.RAW		99.92066 217.548201		G psampie10	Ci	
SEO CCBB	817	1 0.6099 0.0442576 -0.00020061 0.0963869	0.00	14005-1.RAW	0:16:41 18	6309896 0.72916667	39.6214962	0 psample10	OK	ž

Failing Data Report - 6H08006

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
F608200-BS1	MHg-CVAFS-W-Dist	1.840	0.050			1.0010	ng/L	184	70.00	130.00			PASS-OVER	FAIL-BS	om-12
F608200-BSD1	MHg-CVAFS-W-Dist	1.553	0.050	1.840		1.0010	ng/L	155	70.00	130.00	16.9	25.00	PASS-OVER	FAIL-BSD (Rec.)	QM-12
F608200-MS1	MHg-CVAFS-W-Dist	1.844	0.050		0.180	1.0010	ng/L	166	65.00	130.00			PASS-OVER	FAIL-MS	QM.07
F608200-MSD1	MHg-CVAFS-W-Dist	2.001	0.050	1.844	0.180	1.0010	ng/L	182	65.00	130.00	8.18	35.00	PASS-OVER	FAIL-MSD (Rec.)	QM.07
F608200-MS2	MHg-CVAFS-W-Dist	2.036	0.050		0.109	1.0010	ng/L	193	65.00	130.00			PASS-OVER	FAIL-MS	QM.07
F608200-MSD2	MHg-CVAFS-W-Dist	1.967	0.050	2.036	0.109	1.0010	ng/L	186	65.00	130.00	3.45	35.00	PASS-OVER	FAIL-MSD (Rec.)	OW.OJ

Dan	W	tem	
Analyst Revi	ewed B	γ	

Peer Reviewed By

6-9-16 Date

ANALYSIS SEQUENCE

6H08006

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/5/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Analyzed: 8/5/2016
6H08006-IBL1	QC	Order 1	שועונ	שופופו	Comments
6H08006-CAL1	QC	2	1604163		
6H08006-CAL2	QC	3	1604164		
6H08006-CAL3	QC	4	1604165		
6H08006-CAL4	QC QC	5	1604166		
6H08006-CAL5		6	1604167		
6H08006-ICV1	QC QC	7	1603001		
6H08006-ICB1	QC OC		1003001		
6H08006-CCV1	QC OC	8	1603001		
6H08006-CCB1	QC	9	1003001		
6H08006-CCV2	QC	10	1.02001		
	QC	- 11	1603001		
6H08006-CCB2	QC	12			
6H08006-CCV3	ÓС	13	1603001		
6H08006-CCB3	QC QC	14	ļ		
6H08006-CCV4	фс	15	1603001		
6H08006-CCB4	QC	16			
6H08006-CCV5	QC	17	1603001		
6H08006-CCB5	QC	18			
F608200-BLK1	QC	19			
F608200-BLK2	QC	20			
F608200-BLK3	QC	21			
F608200-BS1	QC	22			
F608200-BSD1	QC	23			
F608200-DUP1	QC	24			
F608200-MS1	QC	25			
F608200-MSD1	QC	26			
F608200-MS2	QC	27			
F608200-MSD2	QC	28			
6H08006-CCV6	QC	29	1603001		
6Н08006-ССВ6	QC	30	<u> </u>		
1607339-01REI	MHg-CVAFS-W-Dist	31			Re-extract added 8/4/2016 by JRH
1607339-02RE1	MHg-CVAFS-W-Dist	32			Re-extract added 8/4/2016 by JRH
1607380-01RE1	MHg-CVAFS-W-Dist	33			Re-extract added 8/4/2016 by JRH
1607380-03RE1	MHg-CVAFS-W-Dist	34			Re-extract added 8/4/2016 by JRH
1607380-05RE1	MHg-CVAFS-W-Dist	35			Re-extract added 8/4/2016 by JRH

Due Date: 8/10/2016

ANALYSIS SEQUENCE

6H08006

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/5/2016

Lab Number	Analysis	Order	STD ID	ISTO ID	Comments
1607380-07REI	MHg-CVAFS-W-Dist	36			Re-extract added 8/4/2016 by JRH
1607380-09REI	MHg-CVAFS-W-Dist	37			Re-extract added 8/4/2016 by JRH
1607380-13RE1	MHg-CVAFS-W-Dist	38			Re-extract added 8/4/2016 by JRH
1607586-01RE1	MHg-CVAFS-W-Dist	39			Re-extract added 8/4/2016 by JRH
1607586-02RE1	MHg-CVAFS-W-Dist	40			Re-extract added 8/4/2016 by JRH
6H08006-CCV7	QC	41	1603001		
6Н08006-ССВ7	QC	42			
1607586-03RE1	MHg-CVAFS-W-Dist	43			Re-extract added 8/4/2016 by JRH
1607586-04RE1	MHg-CVAFS-W-Dist	44			Re-extract added 8/4/2016 by JRH
1607586-05RE1	MHg-CVAFS-W-Dist	45			Re-extract added 8/4/2016 by JRH
1607586-06REI	MHg-CVAFS-W-Dist	46			Re-extract added 8/4/2016 by JRH
1607586-07	MHg-CVAFS-W-Dist	47			Scan all data - Level IV
1607586-08	MHg-CVAFS-W-Dist	48			Scan all data - Level IV
1607586-09	MHg-CVAFS-W-Dist	49			Scan all data - Level IV
1607586-10	MHg-CVAFS-W-Dist	50			Scan all data - Level IV
1607586-11	MHg-CVAFS-W-Dist	51			Scan all data - Level IV
1607586-13	MHg-CVAFS-W-Dist	52			Scan all data - Level IV
6H08006-CCV8	QC	53	1603001		
6Н08006-ССВ8	QC	54			

Samples Loaded By Date

Data Processed By

Doto

Due Date: 8/10/2016

F608200

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/4/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	µl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608200-BLK1	Blank	45	40					
F608200-BLK2	Blank	45	40					
F608200-BLK3	Blank	45	40			1		
F608200-BS1	LCS	45	40	1603908	45			
F608200-BSD1	LCS Dup	45	40	1603908	45			11134470
F608200-DUP1	Duplicate [1607380-01RE1]	45	40					
F608200-MS1	Matrix Spike [1607380-05RE1]	45	40	1603908	45		T. (III.)	
F608200-MS2	Matrix Spike [1607586-11]	45	40	1603908	45			
F608200-MSD1	Matrix Spike Dup [1607380-05RE1]	45	40	1603908	45			
F608200-MSD2	Matrix Spike Dup [1607586-11]	45	40	1603908	45			

Standard ID(s): 1603908

Description:

MHg New Primary 1.0 ng/mL CAL

Expiration:

19-Oct-16 00:00

Reagent ID(s):

Description: 1602604

Acetate Buffer

Expiration: 15-Nov-16 00:00 09-Jan-17 00:00

1603749 1604260 Ethylating Agent (For Methyl Mercury Analysis) APDC

29-Jan-17 00:00

1604286

2.5% Ascorbic Acid

10-Aug-16 00:00

1604330

0.5% Distillation Dilute (Made Daily)

05-Aug-16 00:00

Date: 8/10/2016

F608200

Eurofins Frontier Global Sciences. Inc.

Matrix: Water

Date: 8/10/2016

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/4/2016 Sample Raw Initial Final Sample Specs. Data Lab Number Sample Comments Analysis Comments Sample ID (mL) (mL) 1607339-01RE1 OL-2431-01 Re-extract added 8/4/2016 by JRH OL-2431-02 1607339-02RE1 45 Re-extract added 8/4/2016 by JRH NMC-5240-00 1607380-01RE1 45 40 Re-extract added 8/4/2016 by JRH NMC-5240-01 1607380-03RE1 45 40 QC MS/MSD Re-extract added 8/4/2016 by NMC-5240-02 1607380-05RE1 45 40 Re-extract added 8/4/2016 by JRH 1607380-07RE1 NMC-5240-03 45 40 Re-extract added 8/4/2016 by JRH 1607380-09RE1 NMC-5240-04 45 40 Re-extract added 8/4/2016 by JRH 1607380-13RE1 NMC-5240-06 45 Re-extract added 8/4/2016 by JRH 1607586-01RE1 1523 OV-02_071816_SW_10 45 Re-extract added 8/4/2016 by JRH 1607586-02RE1 1523 OV-02_071816 SW 10 Dissolved 45 40 Re-extract added 8/4/2016 by JRH 1524 WQ1b-c_071816_SW_10 1607586-03RE1 45 Re-extract added 8/4/2016 by JRH 1607586-04RE1 1524 WQ1b-c_071816_SW_10 Dissolved 45 40 Re-extract added 8/4/2016 by JRH 1607586-05RE1 1525 WQ2-c_071816_SW_10 45 40 Re-extract added 8/4/2016 by JRH 1607586-06RE1 1525 WQ2-c_071816_SW_10 Dissolved 45 40 Re-extract added 8/4/2016 by JRH 1607586-07 1526 WQ3-L 071816 SW 10 45 40 Scan all data - Level IV 1607586-08 1526 WQ3-L_071816_SW_10 Dissolved 45 Scan all data - Level IV 1527 ES-15 071816 SW 10 407586-09 45 40 Scan all data - Level IV Page 86-10 1527 ES-15 071816 SW 10 Dissolved 45 40 Scan all data - Level IV 1 & 86-11 1528 WQ-ECH_071816 SW 10 45 40 OC MS/MSD Scan all data - Level IV

F608200

Eurofins Frontier Global Sciences, Inc.

Matrix: Water	Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water
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1607586-13 1529 WQ-ECH_071816_SW_10_DUP 45 40 - - - Scan all data - Level IV

Page 184 of 46

Date: 8/10/2016

Prepared: 8/4/2016

F608200

2700-1 8/5/16 om

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/4/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608200-BLK1	Blank	45	40					
F608200-BLK2	Blank	45	40					
F608200-BLK3	Blank	45	40					
F608200-BS1	LCS	45	40	1603908	45			,
F608200-BSD1	LCS Dup	45	40	1603908	45			
F608200-DUP1	Duplicate [1607380-01RE1]	45	40					
F608200-MS1	Matrix Spike [1607380-05RE1]	45	40	1603908	45			
F608200-MS2	Matrix Spike [1607586-11]	45	40	1603908	45			
F608200-MSD1	Matrix Spike Dup [1607380-05RE1]	45	40	1603908	45			
F608200-MSD2	Matrix Spike Dup [1607586-11]	45	40	1603908	45			

Standard ID(s):

1603908

Description:

MHg New Primary 1.0 ng/mL CAL

Expiration:

19-Oct-16 00:00

Reagent ID(s):

1604330

1604260

Description:

APDC

0.5% Distillation Dilute (Made Daily)

Expiration:

29-Jan-17 00:00

05-Aug-16 00:00

1603740 16045EC

Date: 8/10/2016

F608200

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/4/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607339-01REI	OL-2431-01	45	40	-	-	-	Re-extract added 8/4/2016 by JRH	1.25%
1607339-02RE1	OL-2431-02	45	40	-	-	-	Re-extract added 8/4/2016 by JRH	1.25×
1607380-01REI	NMC-5240-00	45	40	-	-	-	Re-extract added 8/4/2016 by JRH	1.254
1607380-03RE1	NMC-5240-01	45	40	QC	-	•	MS/MSD Re-extract added 8/4/2016 by	1-25
1607380-05REI	NMC-5240-02	45	40	-	-	-	Re-extract added 8/4/2016 by JRH	1.25X
1607380-07RE1	NMC-5240-03	45	40	-	-	-	Re-extract added 8/4/2016 by JRH	(.25¥
607380-09REI	NMC-5240-04	45	40	-	-	-	Re-extract added 8/4/2016 by JRH	1-25X
607380-13RE1	NMC-5240-06	45	40		-	-	Re-extract added 8/4/2016 by JRH	1.25>
607586-01REI	1523 OV-02_071816_SW_10	45	40	-	-	-	Re-extract added 8/4/2016 by JRH	1.25×
607586-02REI	1523 OV-02_071816_SW_10 Dissolved	45	40	-	•	н	Re-extract added 8/4/2016 by JRH	1.25X
607586-03RE1	1524 WQ1b-c_071816_SW_10	45	40	-	-	-	Re-extract added 8/4/2016 by JRH	(. 2 5X
607586-04RE1	1524 WQ1b-c_071816_SW_10 Dissolved	45	40	-	٠	*	Re-extract added 8/4/2016 by JRH	1.25×
607586-05RE1	1525 WQ2-c_071816_SW_10	45	40	-	-	-	Re-extract added 8/4/2016 by JRH	1.25¥
607586-06RE1	1525 WQ2-c_071816_SW_10 Dissolved	45	40	-	-	-	Re-extract added 8/4/2016 by JRH	(.2 <i>5</i> ¥
607586-07	1526 WQ3-L_071816_SW_10	45	40	-	-	-	Scan all data - Level IV	1.25
607586-08	1526 WQ3-L_071816_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	1,25×
7586-09	1527 ES-15_071816_SW_10	45	40	-	-	-	Scan all data - Level IV	1.25×
Page 586-10	1527 ES-15_071816_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	1. 25%
586-11 0 460 e Date: 8/	1528 WQ-ECH_071816_SW_10	45	40	QC	-	-	MS/MSD Scan all data - Level IV	1.25X

F608200

2702-1 8/5/10 DM

Eurofins Frontier Global Sciences, Inc.

Matrix: Water Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/4/2016

	1700 WO FOU 071017 OW 10 DUD		·					\neg
1607586-13	1529 WO-ECH 071816 SW 10 DUP	45	40	-	-	-	Scan all data - Level IV	- 1
100/300-13							1 25 X	- 1
1							1,2 /	- 1

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e Date: 8/10/2016

Name: AWS Date: 8/4/16 Batch #: F608200 Sample Matrix: Water WO#: 1607339, 1607380, 1607586

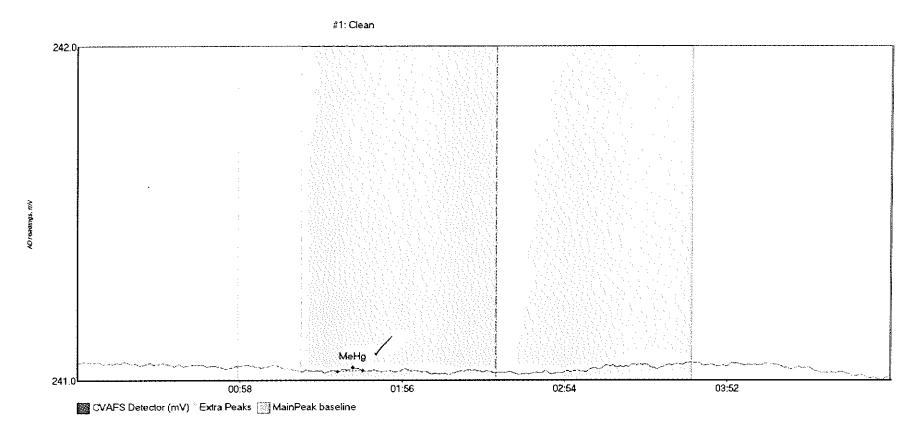
The pH of the preserved sample must be documented before an aliquot is removed for preparation.

Digest # Sample ID Number Preserved ph (mL) (23)	_ μL No
RLK F608200 BLK2 1.0 45.0 3.0 Spike ID: 1603902 RLK2 F608200 BLK3 1.0 45.0 3.0 Spike Amount: 45.0 3.0 RSI F608200 RSD 1.0 45.0 3.0 RSD F608200 RSD 1.0 45.0 3.0 RSI F608200 DUP 1.0 45.0 3.0 RSI F608200 MS 1.0 45.0 3.0 RSI F608200 MS 1.0 45.0 3.0 RSI F608200 MSD 1.0 45.0 3.0 RSD F608200 MSD 1.0 45.0 4.0 RSD RSD REIB 1.0 45.0 4.0 RSD RSD REIB 1.0 45.0 4.0 RSD RSD REIB 1.0 45.0 3.0 RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD RSD	_ μL No
BLK2	_ μL No
B K3	<u>6</u>
BSD F608200-BSD 1.0	<u>6</u>
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u>6</u>
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u>6</u>
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
MS2 $F(008200-MS2 1.0 45.0 4.0 $ MS2 $F(008200-MS2 1.0 45.0 4.0 $ MSD2 $F(008200-MSD2 1.0 45.0 4.0 $ $I 1607339-01REIB 1.0 45.0 4.0 $ $I 1607380-02REIB 1.0 45.0 3.0 $ $I 1607380-03REIB 1.0 45.0 3.0 $ $I 1607380-03REIB 1.0 45.0 3.0 $ $I 1607380-07REIB 1.0 45.0 3.0 $ $I 1607380-13REIB 1.0 $ $I 1607380-13REIB $	- 1
MSD2 $F608200 - MSD2$ $I \cdot 0$ 45.0 4.0 Pipette #: $CJ / FD8$ 1 $I607339 - OIREIB$ $I \cdot 0$ 45.0 4.0 Pipette #: $S \cdot 2 - I6$ 2 $I607380 - OIREIB$ $I \cdot 0$ 45.0 4.0 Pipette #: N/A 3 $I607380 - OIREIB$ $I \cdot 0$ 45.0 3.0 Cal. Date: N/A 4 $I607380 - OIREIB$ $I \cdot 0$ 45.0 3.0 APDC ID: $I004260$ 5 $I607380 - OIREIB$ $I \cdot 0$ 45.0 3.0 HCI ID: $I004330$ 6 $I607380 - OIREIB$ $I \cdot 0$ 45.0 3.0 Temperature: No set the temp. may be changed by rate of \$1000000000000000000000000000000000000	2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\frac{2}{3}$ $\frac{1607380 - 01REIB}{1.0}$ $\frac{1.0}{45.0}$ $\frac{45.0}{3.0}$ $\frac{3.0}{3.0}$ Cal. Date: N/A $\frac{4}{1607380 - 03REIB}$ $\frac{1.0}{1.0}$ $\frac{45.0}{45.0}$ $\frac{3.0}{3.0}$ APDC ID: $\frac{1604260}{1607380 - 07REIB}$ $\frac{1.0}{1.0}$ $\frac{45.0}{45.0}$ $\frac{3.0}{3.0}$ HCl ID: $\frac{1604330}{1607380 - 09REIB}$ $\frac{1.0}{1.0}$ $\frac{45.0}{45.0}$ $\frac{3.0}{3.0}$ Temperature: No set the temp. may be characteristic.	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	i i
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
5 /607380 - 03 KE/B / 0	
7 /607380 - 09REIB /.0 45.0 3.0 Temperature: No set the temp. may be character of 210	
8 $1607380 - 13RE1B$ 1.0 45.0 3.0 the temp. may be characteristic of >10	
5 /00 / Job / John Story rate of 210	range as
-1 M 1 1 1 1 1 1 1 1 1 1	angeo (o)) ml per
9 160 7 386 - OT NETP 10 10 hour Temperature is	recorded
10 1607586-02REIB 1.0 45.0 70 for informational purpor	ses only.
1/ 1607 36 - 03/01 1 2 0 Unit 1: 12 - 2 nm 6	3 8-4-16
12 160 +3 86 04 KE 18 1.0 43.0 30 Wait 2: 121 12	121.0
13 1607386 0310112 1.0	
14 1607586-06 RE1B 10 45.0 3.0 Unit 3: 120-6	····
15 1607586-07B 1.0 450 3.0 Unit 4: 120.2	3
16 1607586-08B 1.0 45.0 30 Unit 5: 122.0	
17 1607586-0915 100 45.0 3.0 Unit 6: 122.0	
18 1607586-1013 1.0 45.0 30	
1// / VO / 300 // V + V + Comments:	
20 1607586-13B 1.0 45.0 3.0 Dupi source:	
1607380-0	NB
MSI/MSDI Source 1607380-0	
1607380 CA	ログロ
MS2/MSD2 500 1607586-1	II B
1807300	. 0

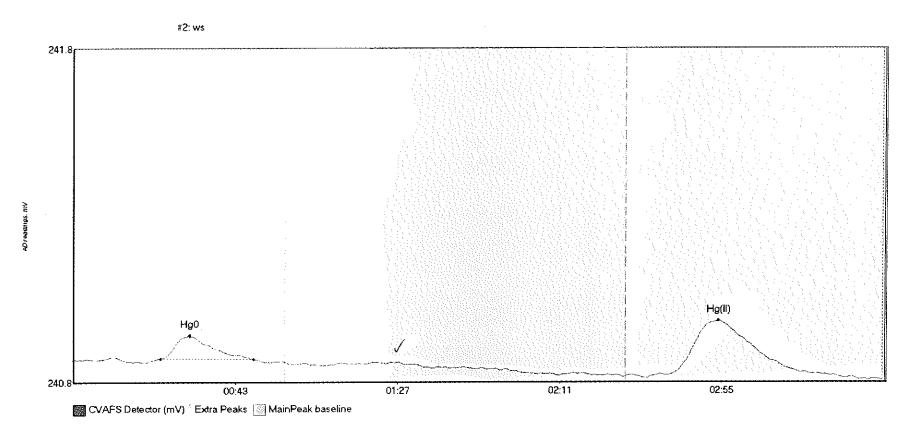
EFGS / Methyl Mercury Distillations / LOG-PR-029.03 / Effective: Aug. 4, 2014 / QA2016-036

J cirties by OH 8/4/16
Page 13 of 30





ALL PEAKS VERIFIED BY DAW E9.10



Area 7.915 27.993

Start Time EndTime 23.7 48.9 200.5 161.5

StartValue EndValue 240.85 240.84 240,80 240.80

31.7 175.2

Peak Max PeakHeight Flags 0.068 OK 0.163 OK

Baseline 240.8435 240.8435 0.00

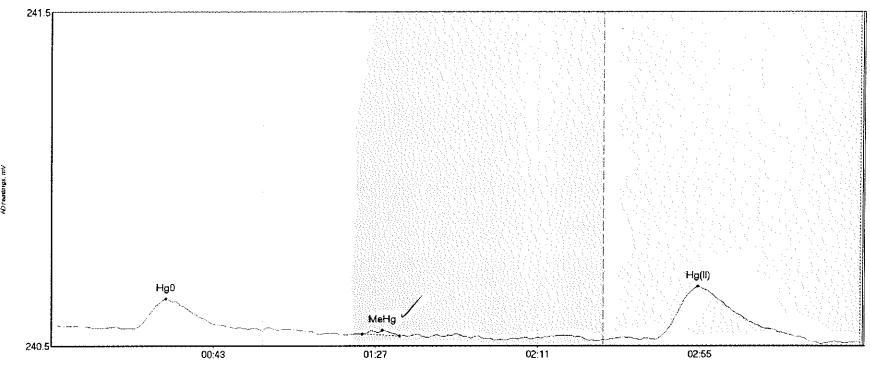
BlDev

BlShift Comment -0.06 -0.06

016

0.00

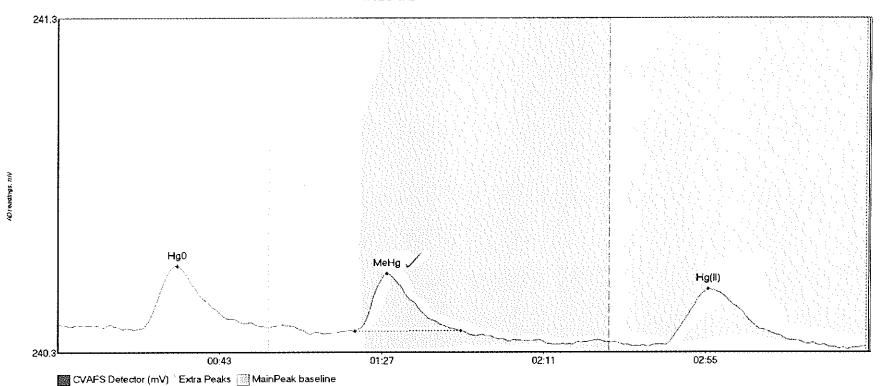




Page 191 o	Name SEQ-IBL1 SEQ-IBL1 SEQ-IBL1	М
f 463		

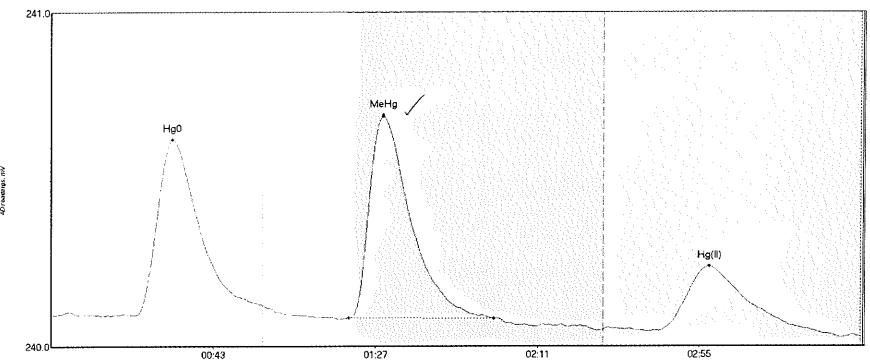
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	flags	Baseline	BiDev	BIShirt	Comment	
SEC-IBL1 Eq0	9.493	22.€	44.2	240.59	240.61	31.2	0.089	OK	240.6055	0.00	-0.05		326
SEQ-IBL1 MeHq	0.810	84.5	94.8	240.58	240.57	90.0	0.010	OK	240.6055	0.00	-0.05		316
SEQ-IBL1 Hq(II)	29.090	164.2	206.2	240.56	240.56	175.€	0.158	OK	240.6055	0.00	-0.05		

#4: SEQ-CAL1



Name	Area	Start Tir	me EndTime	StartValu	e EndValue	Peak Max	PeakHeig	ht Flags	Baseline	BlDev	BlShift	Comment	
SEQ-CAL1 Hq0	22.411	22.4	51.1	240.34	240.36	32.6	0.189	OK	240.3554	0.00	-0.06		016
SEQ-CAL1 MeHq	20.697	80.7	109.6	240.34	240.34	89.5	0.173	OK	240.3554	0.00	-0.06		216
SEQ-CAL1 Hg(11) 26.675	165.2	200.3	240.30	240.31	176.8	0.166	OK	240.3554	0.00	-0.06		





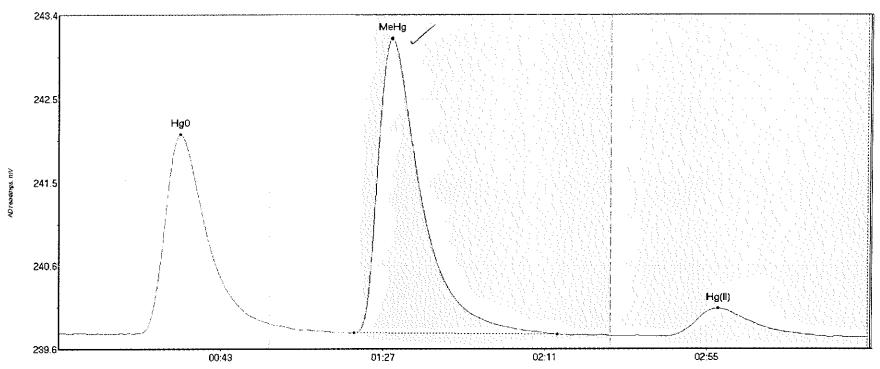
CVAFS Detector (mV) * Extra Peaks MainPeak baseline

Name
SEQ-CAL2
SEQ-CAL2
SEQ-CAL2

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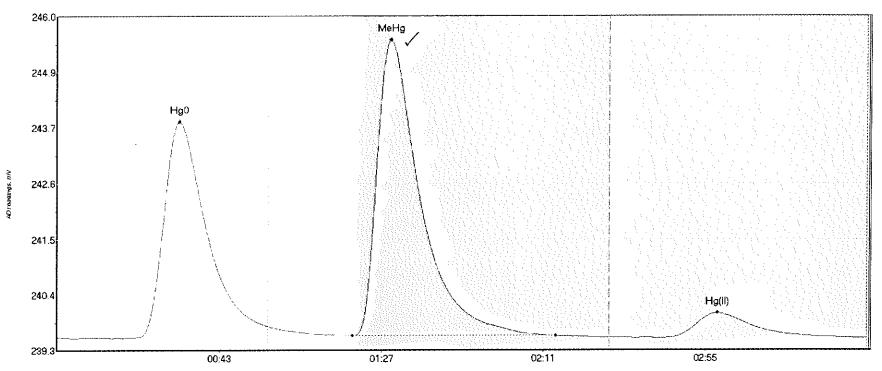
THE CAME HONG TO THE PROPERTY OF THE PROPERTY	-0.06 -0.06 -0.06
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#6: SEQ-CAL3



Name	Area	Start Time	EndTime	StartValue	EndValue	reak Max	reakheight	riags	Baseline	BiDev	BISNIIT	Comment	
SEO-CAL3 Hg0	285.317	21.8	57.5	239.80	239.91	33.0	2.265	CT	239.7994	0.00	-0.04		016
SEQ-CAL3 MeHg	456.927	80.1	135.4	239.80	239.79	90.4	3.345	OK	239.7994	0.00	-0.04		210
SEQ-CAL3 Hg(II)	55.396	164.5	208.3	239.76	239.76	179.2	0.316	OK	239.7994	0.00	-0.04		

#7: SEQ-CAL4



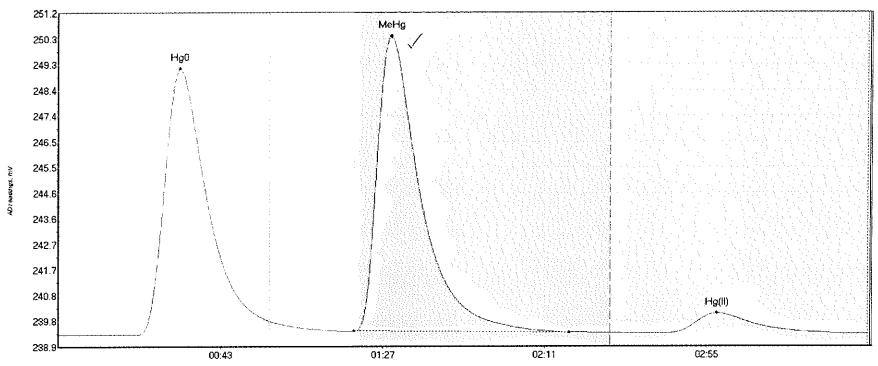
CVAFS Detector (mV) `Extra Peaks | MainPeak baseline

	•
SEQ-	CA.
SEQ-	CA
SEQ-	CA

Page 195 of 463

Name	Area	Start Time	Fuditime	Scarciains	Endvalue	reak Hax	reakmergiit			DIDEA	DISHIE	COMMETTE	
SEQ-CAL4 Hq0	547.723	20.5	57.5	239.55	239.76	33.1	4.317	CT	239.5502	0.00	-C.02		316
SEQ-CAL4 MeHq			135.5	239.59	239.58	90.6	5.907	OK	239.5502	0.00	-0.02		310
SEO-CAL4 Hg(II)			208.1	239.54	239.55	179.3	0.497	CK	239.5502	0.00	-0.02		

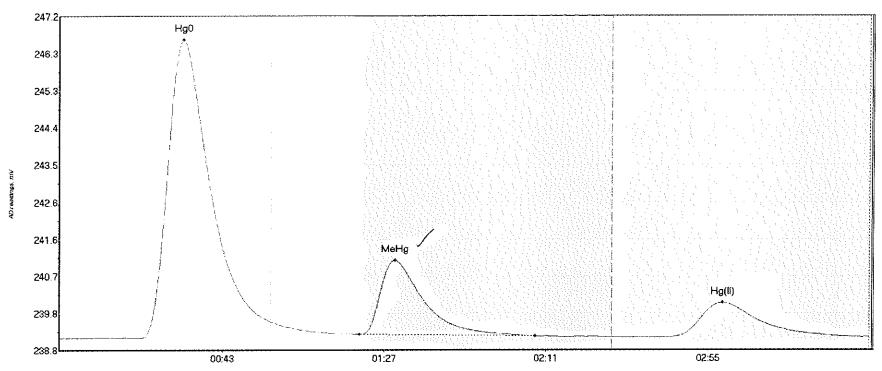
#8: SEQ-CAL5



CVAFS Detector (mV) Extra Peaks MainPeak baseline

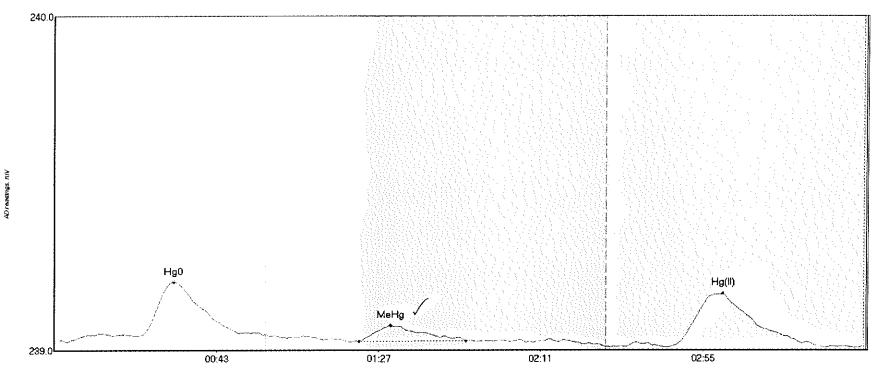
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
SEQ-CAL5 Hq0	1257.754	20.7	57.5	239.33	239.83	32.9	9.617	CT	239.3382	0.00	0.01		016
SEC-CAL5 MeHg			138.7	239.46	239.41	90.3	10.864	OK	239.3382	0.00	0.01		310
SEQ-CAL5 Hg(II)		164.9	216.6	239.38	239.36	178.9	0.734	OK	239.3382	0.00	0.01		

#9: SEQ-ICV1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	reakheight	Flags	Baseline	BineA	BISUILE	Comment	
SEQ-ICV1 Hg0	943.958	21.2	57.5	239.15	239.55	33.4	7.442	CT	239.1480	0.00	0.03		216
SEQ-ICV1 MeHg	248.882	81.4	129.1	239.24	239.20	91.0	1.850	OK	239.1480	0.00	0.03		310
SEQ-ICV1 Hg(II)		163.3	216.6	239.17	239.17	180.1	0.865	OK	239.1480	0.00	0.03		

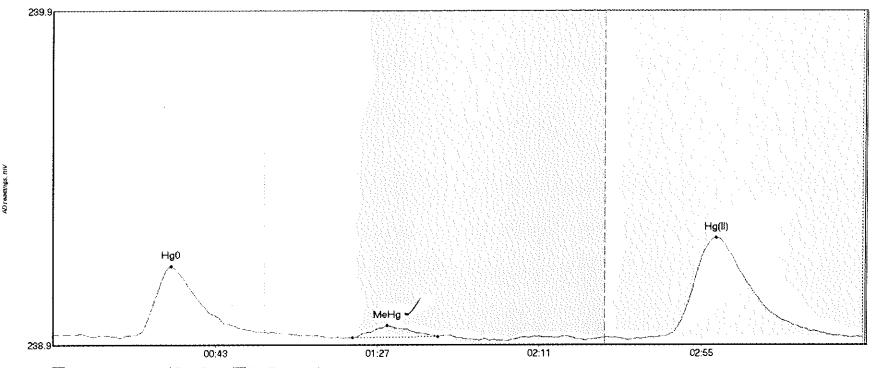
#10: SEQ-ICB1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	RIDeA	BISDIE C	omment	
SEQ-ICB1 Hg0	23.979	5.2	56.8	239.00	239.02	32.3	0.175	OK	239.0020	0.00	-0.02		016
SEQ-ICB1 MeHg	6.869	82.7	111.8	239.00	239.00	91.3	0.047	OK	239.0020	0.00	-0.02		310
SEQ-ICB1 Hg(II)	27.736	166.6	207.2	238.98	238.98	181.4	0.160	OK	239.0020	0.00	-0.02		
•													

#11: F607432-BLK7



CVAFS Detector (mV) Éxtra Peaks MainPeak baseline

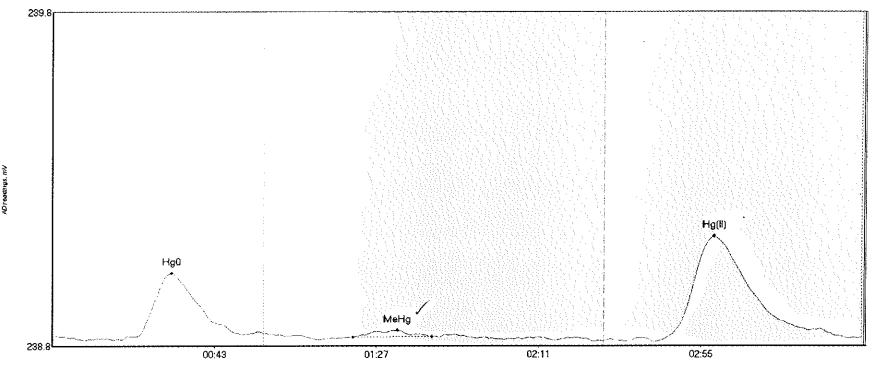
Name		AT CC
F607432-BLK7	Нg	26.392
F607432-BLK7	Ме	4.051
F607432-BLK7	Нg	51.091
	-	

Start	Time	EndTi
22.2		57.5
81.5		104.5
166.2		212.8

BlDev
0.00
0.00
0.00

-0.01

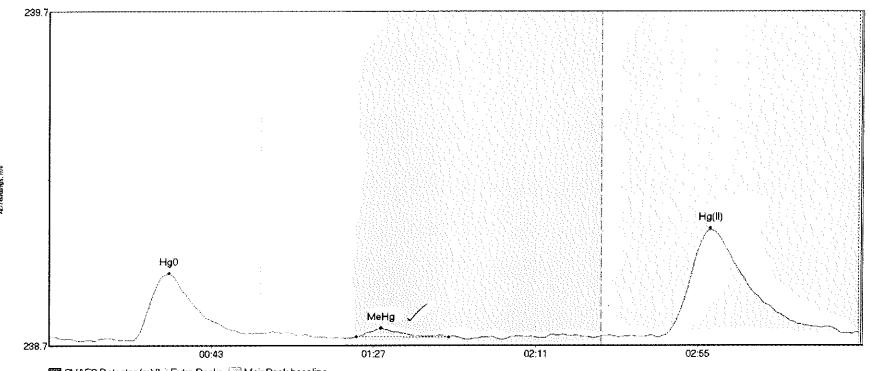
#12: F607432-BLK8



CVAFS Detector (mV) `Extra Peaks MainPeak baseline

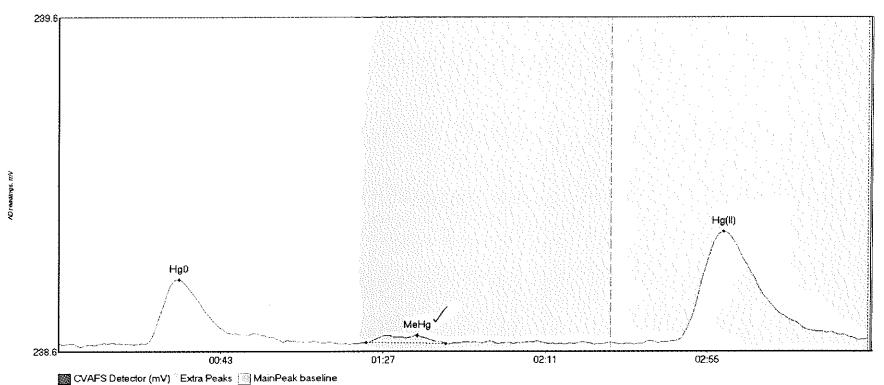
Name	Area	Start Ti	me EndTime	StartVali	ie EndValue	Peak Max	PeakHeig!	nt Flags	Baseline	ElDéA	BIShift	Comment	
F607432-BLK8 1	Hg 23.665	22.7	51.2	238.78	238.79	32.5	0.190	OK	238.7864	0.00	-0.01		016
F607432-BLK8 N	Me 2.237	81.7	103.0	238.78	238.78	93.8	0.021	CK	238.7864	0.00	-0.01		27.0
F607432-BLK8	Hg 56.463	164.1	219.0	238.77	238.78	179.6	0.315	CK	238.7864	0.00	-0.01		

#13: F607432-BLK9



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	SiDev	BISHIFC	Comment	
F607432-BLK9	Hg 25.669	22.5	53.6	238.69	238.71	32.6	0.202	OK	238.7028	0.00	0.01		016
F607432-BLK9	Me 2.604	83.5	108.5	238.70	238.70	90.2	0.025	OK	238.7028	0.00	0.01		310
F607432-BLK9	Hg 56.578	166.8	218.0	238.71	238.71	179.5	0.318	OK	238.7028	0.00	0.01		

#14: *F607432-BLKA

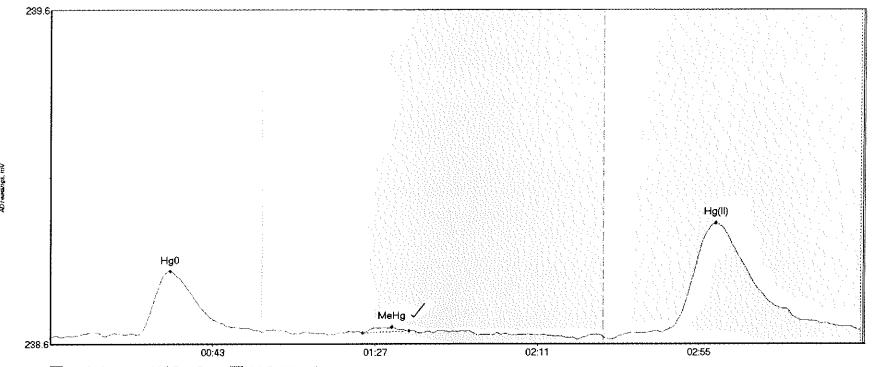


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
*F607432-BLKA	н 23.638	23.4	57.5	238.63	238.66	32.7	0.193	CT	238.6357	0.00	0.02		016
*F607432-BLKA	м 3.199	83.4	105.2	238.64	238.64	97.4	0.022	OK	238.6357	0.00	0.02		310
*F607432-BLKA .	н 59.358	165.2	217.2	238.64	238.65	180.4	0.332	OK	238.6357	0.00	0.02		

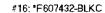
Comment

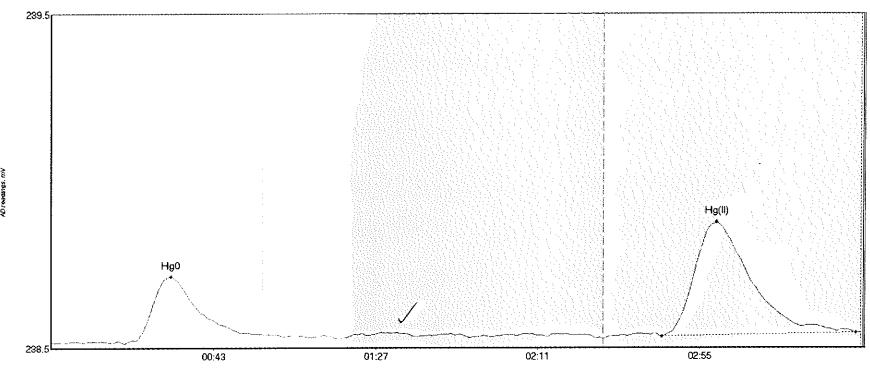
016

#15: *F607432-BLKB

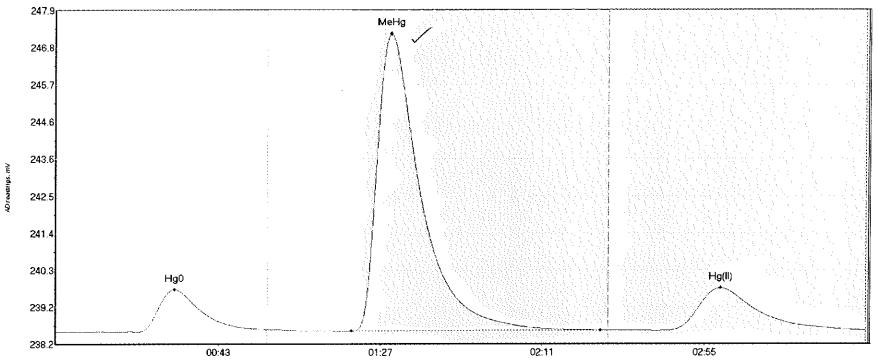


Name *F607432-BLKB *F607432-BLKB *F607432-BLKB	M 1.089	Start Time 14.6 84.6 152.1	EndTime 57.4 97.3 219.8	StartValue 238.59 238.60 238.58	EndValue 238.60 238.60 238.61	Peak Max 32.4 92.6 180.6	PeakHeight 0.196 0.017 0.348	Flags OK OK CT	 B1Dev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02



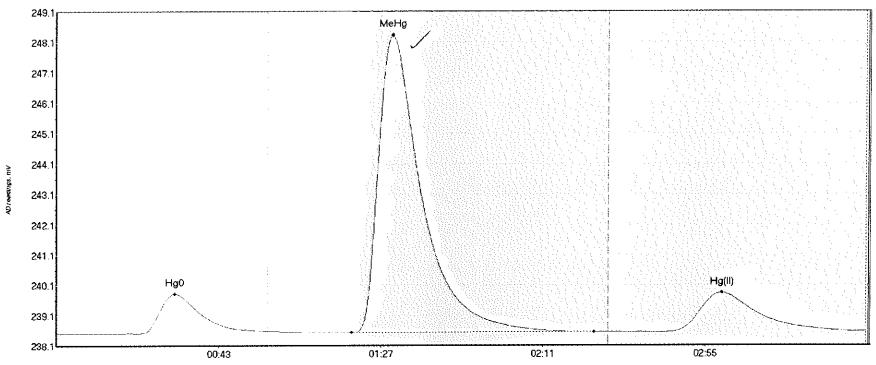


#17: F607432-BS2



Name	Area	Start Time	EndTime	StartValue	e EndValue	Peak Max	PeakHeigh	nt Flags	Baseline	BlDev	BlShift	Comment	
F607432-BS2 Hg	0 152.115	6.1	57.5	238.51	238.58	32.1	1.240	CT	238.5068	0.00	0.06		016
F607432-BS2 Mel			147.8	238.53	238,56	90.9	8.657	OK	238.5068	0.00	0.06		316
F607432-BS2 Hg	(223.154	164.5	218.4	238.55	238.57	180.4	1.240	OK	238.5068	0.00	0.06		

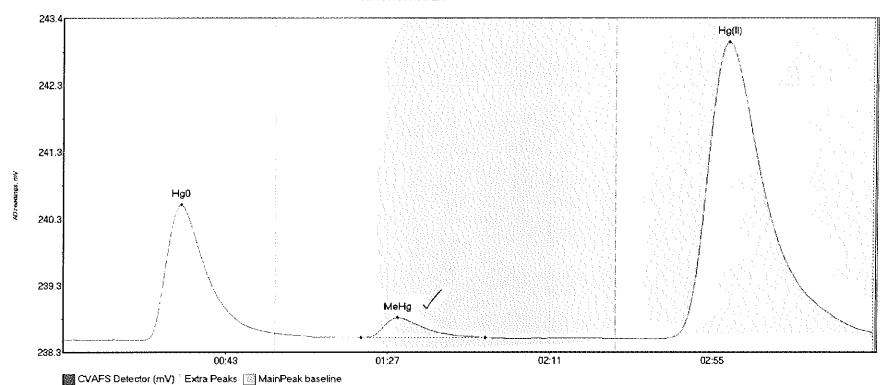
#18: F607432-BSD2



CVAFS Detector (mV) `Extra Peaks MainPeak baseline

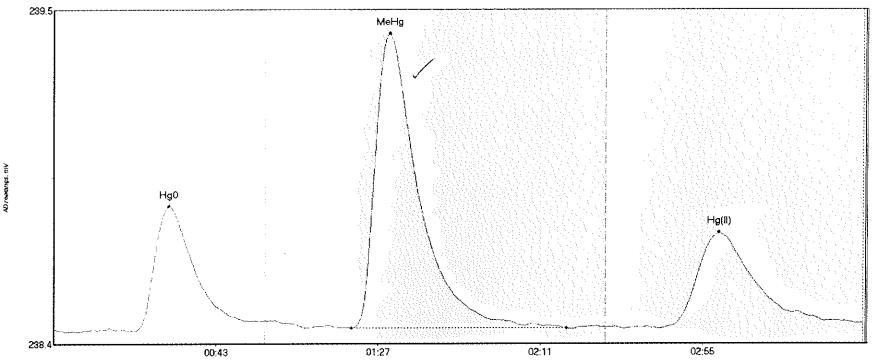
Name	Area	Start T	ime EndTime	StartValu	e EndValue	Peak Max	PeakHeig	ht Flags	Baseline	BineA	BISNITC	Comment	
F607432-BSD2	Ha 157.427	14.1	57.5	238.49	238.56	32.2	1.322	CT	238.4830	0.00	0.07		016
F607432-BSD2		80.1	146.0	238.52	238,54	91.1	9.833	OK	238.4830	0.00	0.07		310
F607432-BSD2			219.8	238.52	238.55	180.6	1.305	CT	238.4830	0.00	0.07		

#19: 1607541-01RE1



Name	Area	Start Time	EndTime	StartVaiue	EndValue	Peak Max	reakHeight	Flags	Baseline	Biber	Bishitt Comment	
1607541-01RE1 H	250.783	22.2	57.5	238.46	238.56	32.0	2.063	CT	238.4579	0.00	0.12	016
1607541-01RE1 M	37.889	80.9	114.4	238.49	238.49	90.9	0.306	OK	238.4579	0.00	0.12	310
1607541-01RE1 H	814.650	161.0	219.8	238.47	238.57	180.5	4.524	CT	238.4579	0.00	0.12	

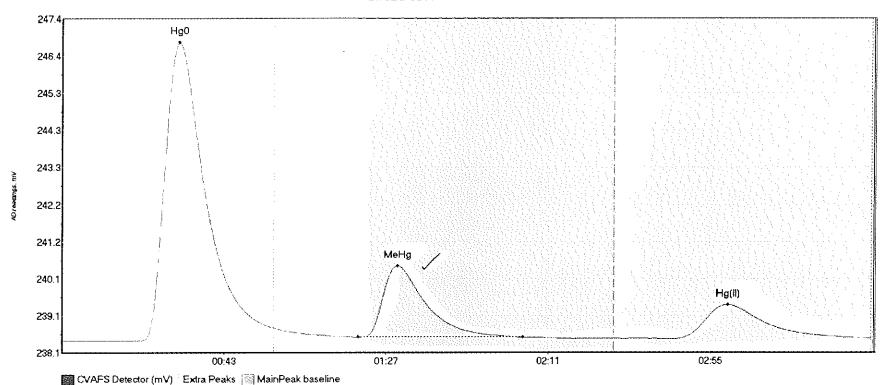
#20: 1607655-01RE1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

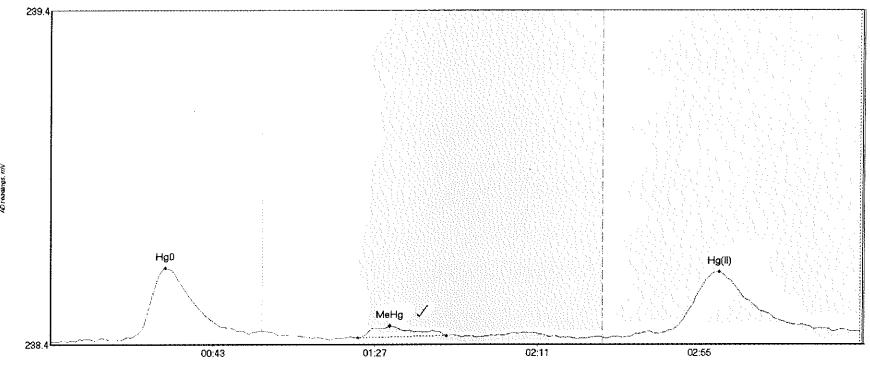
Name	Area	Start Time	: EndTime	- StartValue	EndValue -	Peak Max	- PeakHeight	t Flags	Baseline	BIDeA	BiShift	Comment	
1607655-01RE1	н 49.869	22.2	55.9	238.44	238.47	31.3	0.432	OK	238.4440	0.00	0.02		016
1607655-01RE1	M 138.645	80.9	139.1	238.45	238.45	91.1	1.020	OK	238.4440	0.00	0.02		310
1607655-01RE1	н 57.815	164.9	219.4	238.45	238.46	180.5	0.331	OK	238.4440	0.00	0.02		

#21: SEQ-CCV1



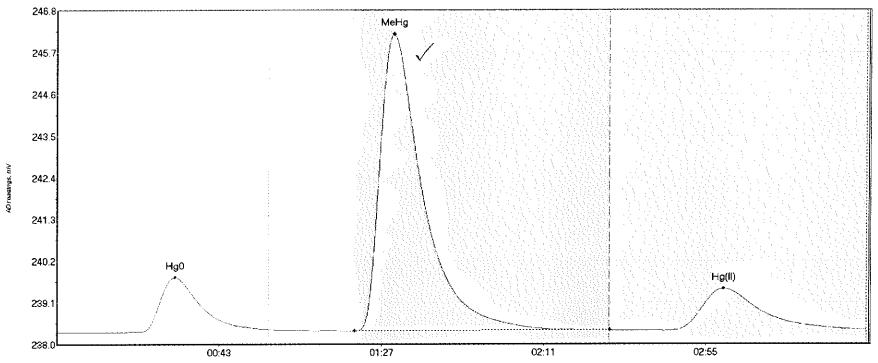
Start Time EndTime StartValue EndValue Peak Max PeakHeight Flags Baseline BlDev BlShift Comment Area 238.4096 SEQ-CCV1 Hg0 1005.569 20.2 57.5 238.41 238.76 31.9 8.321 CT 0.00 0.07 016 238.4096 0.00 SEQ-CCV1 MeHg 263.521 80.4 125.1 238.51 238.50 91.1 1.994 OK 0.07 SEQ-CCV1 Hg(II) 172.138 166.8 219.8 238.46 238.48 180.7 0.947 CT238.4096 0.00 0.07

#22: SEQ-CCB1



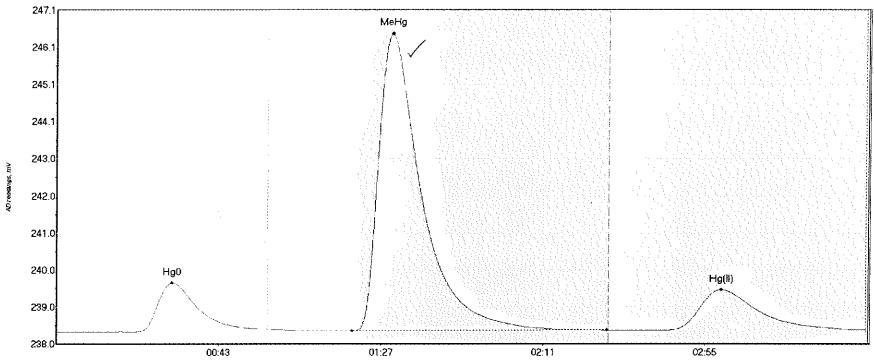
Name		Area	Start Tir	me EndTime	StartValu	e EndValue	Peak Max	PeakHeig	ht Flags	Baseline	Sibev	BIShift	Comment	
SEQ-CCB1	Hg0	27.042	19.0	53.7	238.39	238.41	31.2	0.21€	OK	238.3831	0.00	0.03		016
SEQ-CCB1	MeHq	4.421	83.5	107.4	238.39	238.40	92.2	0.034	OK	238.3831	0.00	0.03		210
SEQ-CCBl	Hg(II)	35.365	157.5	217.9	238.40	238.41	181.5	0.193	OK	238.3831	0.00	0.03		
	-													

#23: F607432-BS3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Easeilne	Ribén	BISDIE (omment	
F607432-BS3 Hg0	172.325	18.3	57.5	238.37	238.44	32.1	1.441	CT	238.3716	0.00	0.06		316
F607432-BS3 MeH	1059.231	80.7	150.0	238.40	238.42	91.4	7.811	CT	238.3716	0.00	0.06		J I O
F607432-BS3 Hg(196.437	166.1	219.0	238.41	238.43	180.9	1.104	OK	238.3716	0.00	0.06		

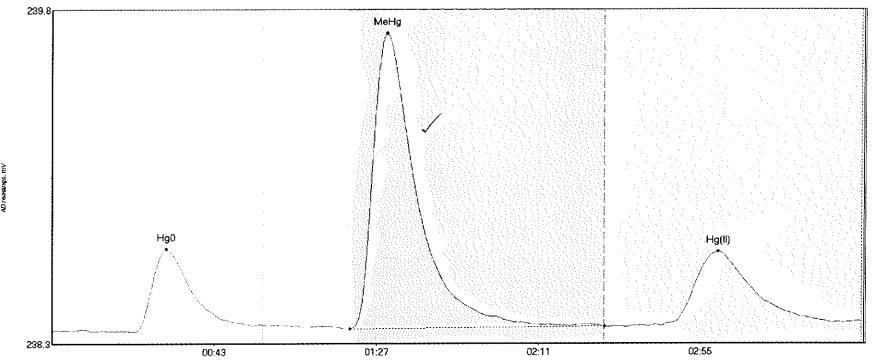
#24: F607432-BSD3



CVAFS Detector (mV) Extra Peaks MainPeak baseline

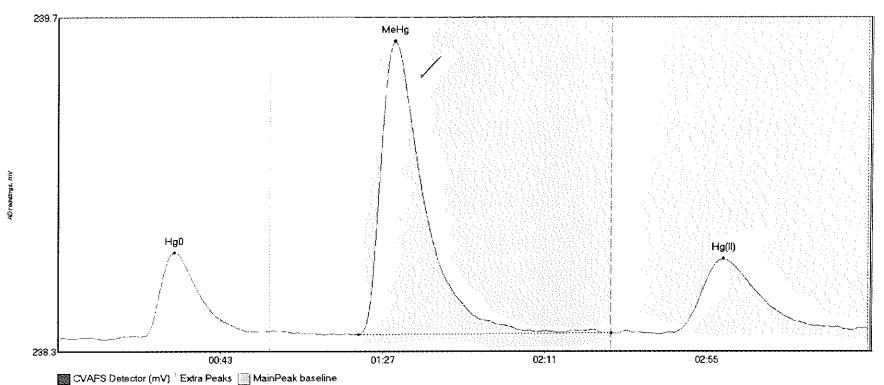
Name	Area	Start Tim	e EndTime	StartValue	e EndValue	Peak Max	PeakHeigh	t Flags	Baseline	BlDev	Bl\$hift	Comment	
F607432-BS	D3 Hg 159.123	20.4	57.5	238.35	238.41	31.5	1.331	CT	238.3438	0.00	0.06		016
F607432-BS	D3 Me 1093.336	80.1	149.4	238.37	238.39	91.1	8.051	OK	238.3438	0.00	0.06		71.6
F607432-BSI	D3 Hg 196.116	165.9	219.8	238.39	238.40	180.5	1.099	CT	238.3438	0.00	0.06		
	,												

#25: 1607655-02RE1



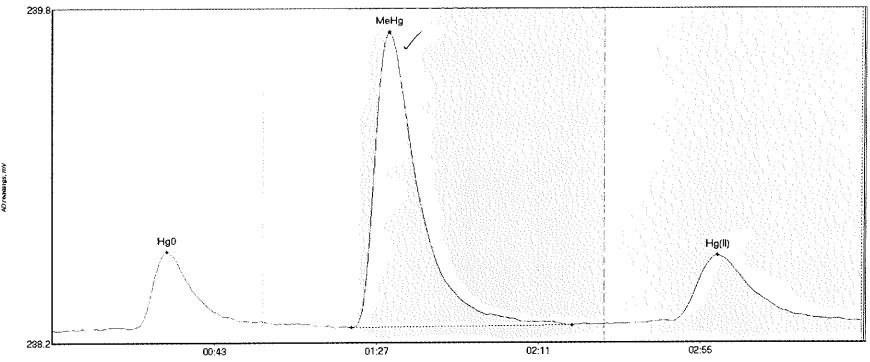
Name	Area	Start Time	e EndTime	StartValue	e EndValue	Peak Max	PeakHeigh	nt Flags	Baseline	BlDev	BlShift	Comment	
1607655-02RE1	H 45.516	22.6	54.6	238.33	238.36	31.0	0.386	OK	238.3385	0.00	0.04		016
1607655-02RE1		80.9	150.0	238.34	238.35	90.9	1.378	CT	238.3385	0.00	0.04		710
1607655~02RE1	H 60.142	161.9	215.0	238.36	238.37	180.9	0.348	OK	238.3385	0.00	0.04		

#26: 1607655-03RE1



Name	Area	Start Time	e EndTime	StartValue	e EndValue	Peak Max	PeakHeig	ht Flags	Baseline	BlDev	BlShift	Comment	
1607655-03RE1	H 42.042	15.1	55.4	238.32	238.35	31.5	0.361	OK	238.3192	0.00	0.04		216
1607655-03RE1	M 167.262	81.4	150.0	238.33	238.34	91.2	1.225	CT	238,3192	0.00	0.04		310
1607655-03RE1	H 54.010	167.1	215.7	238.34	238.36	180.6	0.309	OK	238.3192	0.00	0.04		

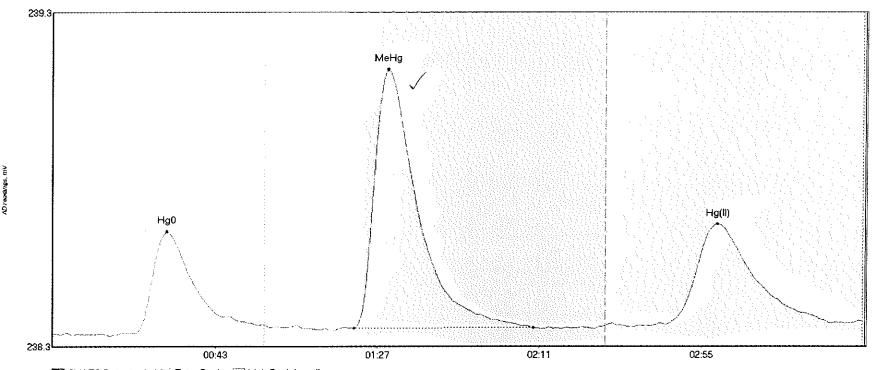
#27: 1607655-04RE1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

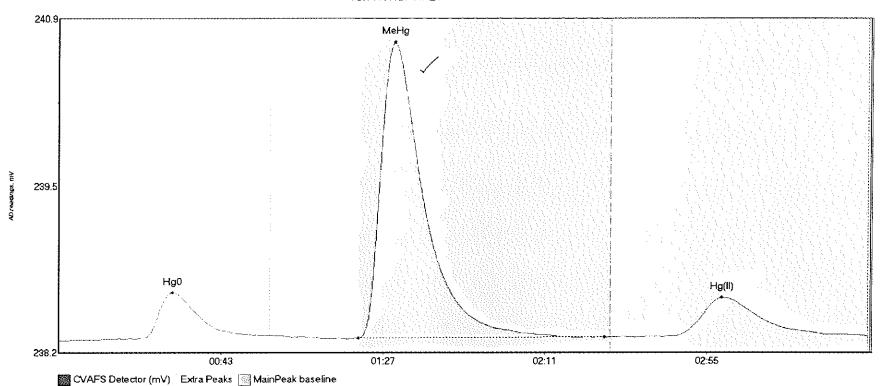
Name	Area	Start Time	EndTime	StartValue	e EndValue	Peak Max	PeakHeigh	t Flags	Baseline	BlDev	BlShift	Comment	
1607655-04RE1 B	40.408	7.4	55.2	238.31	238.34	31.2	0.355	OK	238.3070	0.00	0.04		216
1607655-04RE1 N		81.3	141.1	238.32	238.33	91.4	1.343	ÇK	238.3070	0.00	0.04		710
1607655-04RE1 H		161.0	219.6	238.34	238.35	180.7	0.309	OK	238.3070	0.00	0.04		

#28: 1607655-05RE1



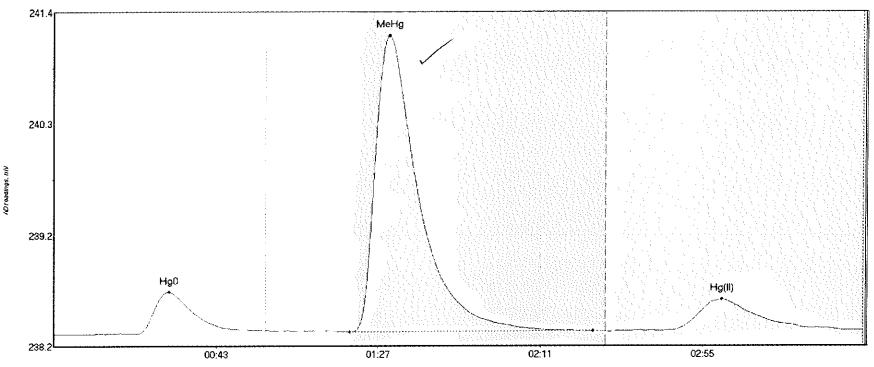
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	Bishift	Comment	
1607655-05RE1 H	H 36.406	21.9	55.7	238.31	238.33	30.9	0.302	OK	238.3041	0.00	0.04		016
1607655-05RE1 M	1 104.256	81.8	130.5	238.32	238.32	90.9	0.773	CK	238.3041	0.00	0.04		310
1607655-05RE1 H	1 52.688	166.4	211.5	238.33	238.34	180.4	0.301	OK	238.3041	0.00	0.04		

#29: 1607723-01RE1



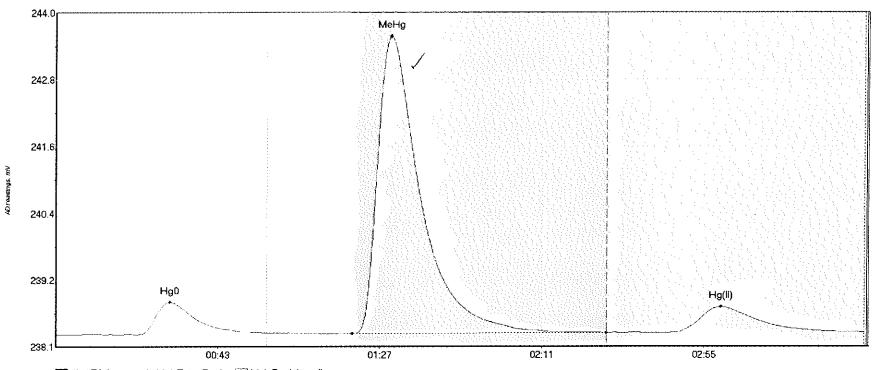
Name	Area	Start Tim	e EndTime	StartValu	e EndValue	Peak Max	PeakHeigh	ht Flags	Baseline	BlDev	BlShift	Comment	
1607723-01RE1	H 42.451	10.5	55.8	238.29	238.33	30.9	0.380	OK	238.2870	0.00	0.04		016
1607723-01RE1	M 319.477	81.4	148.3	238.30	238.31	91.1	2.358	OK	238.2870	0.00	0.04		710
1607723-01RE1	H 56.520	164.2	219.8	238.32	238.32	180.1	0.312	CT	238.2870	0.00	0.04		

#30: 1607723-02RE1



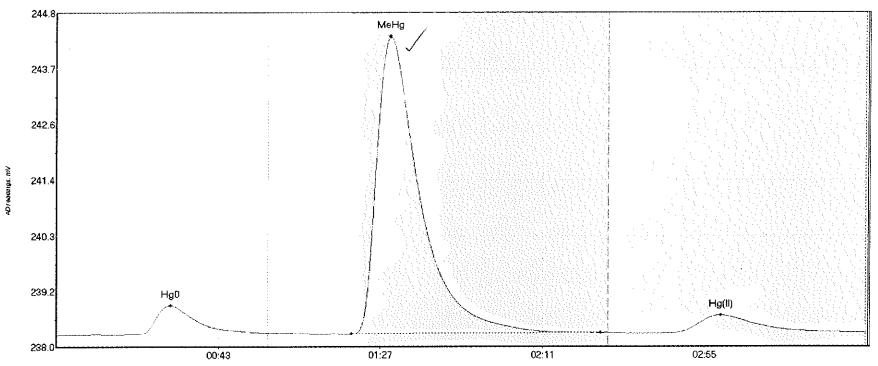
Name	Area	Start Ti	me EndTime	StartValı	e EndValue	Peak Max	PeakHeig	ht Flags	Baseline	BiDev	Bishift	Comment	
1607723-02RE1	н 46.416	22.6	54.2	238.29	238.32	31.3	0.407	OK	238.2835	0.00	0.04		016
1607723-02RE1		80.3	146.5	238.30	238.31	91.1	2.869	OK	238.2835	0.00	0.04		170
1607723-02RE1	н 57.137	151.1	215.0	238.31	238.32	181.3	0.312	OK	238.2835	0.00	0.04		

#31: 1607723-03RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	Bl\$hift	Comment	
1607723-03RE1 H	66.383	16.9	57.4	238.28	238.32	31.2	0.569	OK	238.2820	0.00	0.04		016
1607723-03RE1 M	709.791	80.6	149.7	238.30	238.31	91.2	5.237	OK	238.2820	0.00	0.04		110
1607723-03RE1 H	79.404	165.9	219.1	238.31	238.33	180.6	0.453	OK	238.2820	0.00	0.04		

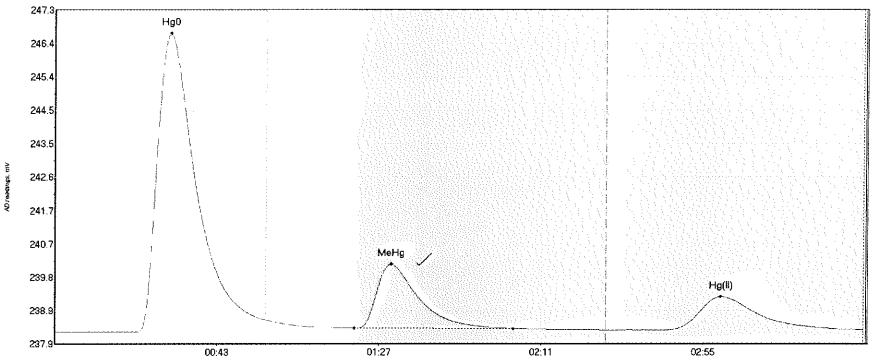
#32: 1607723-04RE1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Ti	me EndTime	StartValı	e EndValue	Peak Max	PeakHeig:	ht Flags	Baseiine	BiDeA	BISDILL	Comment	
1607723-04RE1	н 71.255	15.0	56.2	238.26	238.30	31.1	0.602	OK	238.2643	0.00	0.04		016
1.607723-04RE1	M 820.501	80.1	147.8	238.28	238.30	90.8	6.061	OK	238.2643	0.00	0.04		310
1607723-04RE1	H 62.811	167.1	216.8	238.30	238.31	180.4	0.362	OK	238.2643	C.00	0.04		

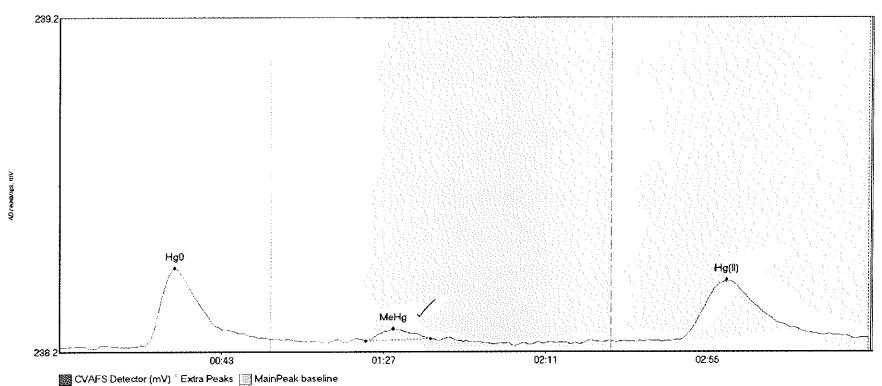
#33: SEO-CCV2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment	
SEQ-CCV2 Hg0	985.266	21.5	57.5	238.25	238.58	31.4	8.372	CT	238.2523	0.00	0.07		316
SEQ-CCV2 MeHg	235.567	81.3	124.5	238.35	238.35	91.4	1.803	OK	238.2523	0.00	0.07		710
SEQ-CCV2 Hg(II)	168.299	164.1	219.8	238.30	238.32	180.9	0.944	CT	238.2523	0.00	0.07		

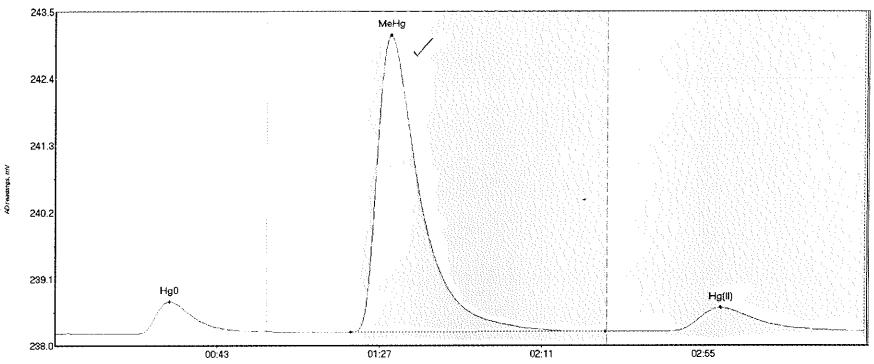
016

#34: SEQ-CCB2



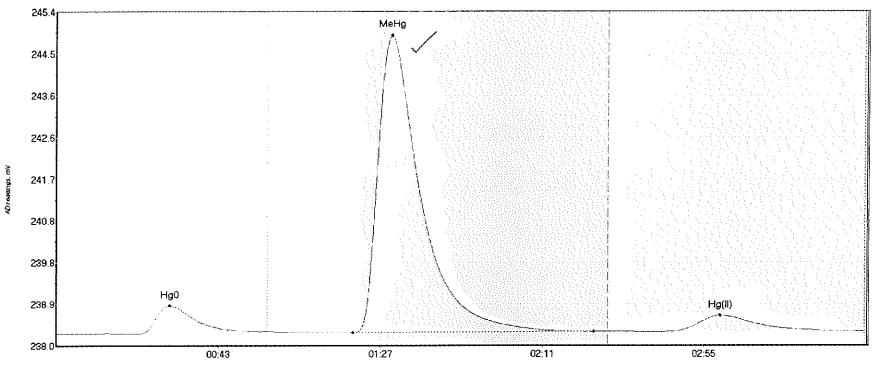
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB2 Hg0	27.722	23.0	57.5	238.25	238.27	31.4	0.233	CT	238.2457	0.00	0.03	
SEQ-CCB2 MeHg	3.287	83.1	100.9	238.26	238.27	90.7	0.036	OK	238.2457	0.00	0.03	
SEQ-CCB2 Hg(II)		168.5	216.2	238.27	238.27	181.2	0.177	OK	238.2457	0.00	0.03	

#35: 1607723-05RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	: Flags	Baseline	BlDev	BlShift	Comment	
1607723-05RE1	н 60.690	21.0	57.5	238.23	238.27	31.1	0.528	CT	238.2334	0.00	0.04		016
1607723-05RE1	M 660.040	80.1	149.5	238.25	238.26	91.1	4.879	OK	238.2334	0.00	6.04		310
1607723-05RE1	н 70.820	164.9	219.8	238.26	238.27	180.8	0.392	CT	238.2334	0.00	0.04		

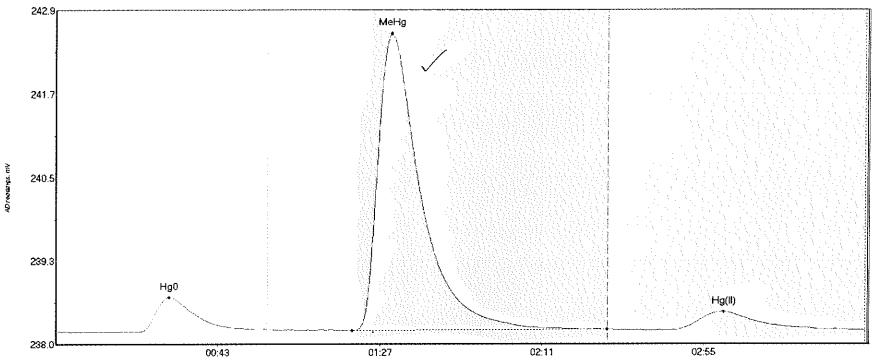
#36: 1607723-06RE1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	Peakheight	Flags	Baseline	BineA	BISNIET COL	nment	
1607723-06RE1 H	H 72.767	22.2	55.4	238.22	238.26	31.0	0.629	OK	238.2195	0.00	0.05		016
1607723-06RE1 M	1 897.375	80.6	146.0	238.24	238.26	91.1	6.642	OK	238.2195	0.00	0.05		216
1607723-06RE1 H	1 64.293	165.0	219.5	238.26	238.27	180.5	0.363	OK	238.2195	0.00	0.05		

#37: 1607723-05RE2



30.9

91.2

181.4

CVAFS Detector (mV) Extra Peaks MainPeak baseline

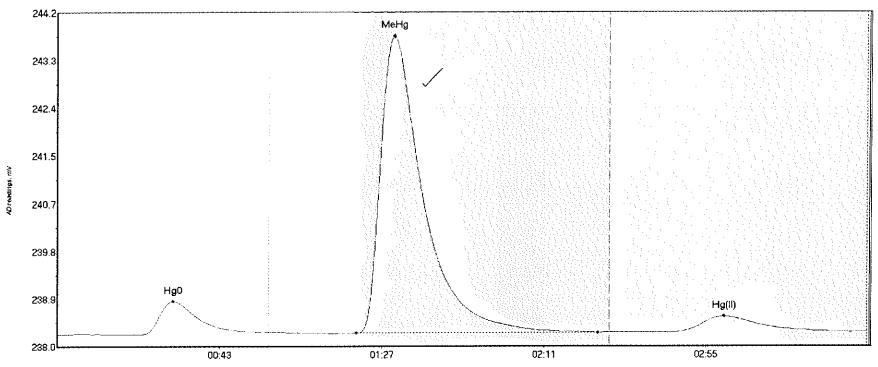
Name		Area
1607723-05RE2	Н	57.79
1607723-05RE2	М	582.9
1607723-05RE2	Η	44.23

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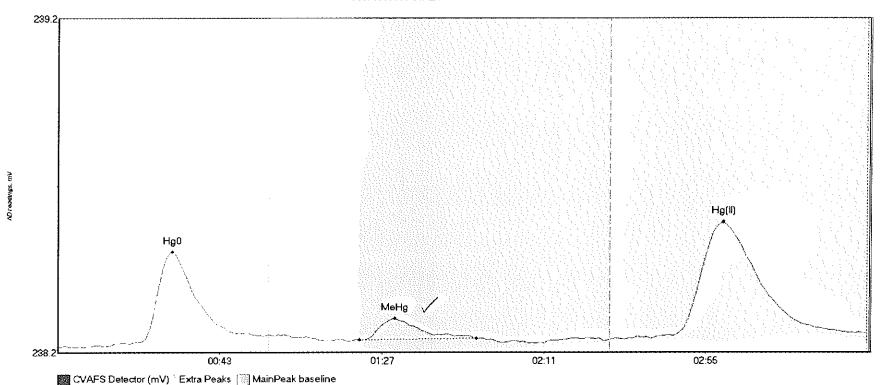
0.03

#38: 1607723-06RE2



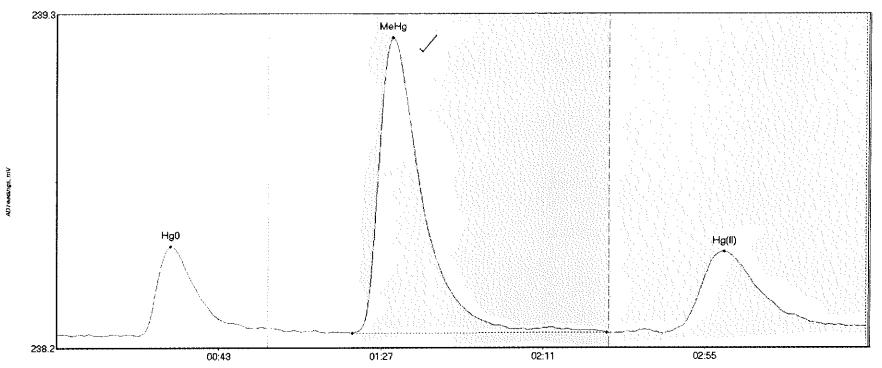
Name	Area	Start Tim	ne EndTime	StartValı	e EndValu e	Peak Max	PeakHeig	ht Flags	Baseline	BiDev	BlShift	Comment	
1607723-06RE2	н 69.618	23.1	57.5	238.22	238.26	31.4	0.614	CT	238.2166	0.00	0.04		016
1607723-06RE2	M 749.256	81.0	146.7	238.24	238.24	91.4	5.538	OK	238.2166	0.00	0.04		310
1607723-06RE2		165.6	215.4	238.25	238.26	181.0	0.297	OK	238.2166	0.00	0.04		

#39: 1607800-01RE1



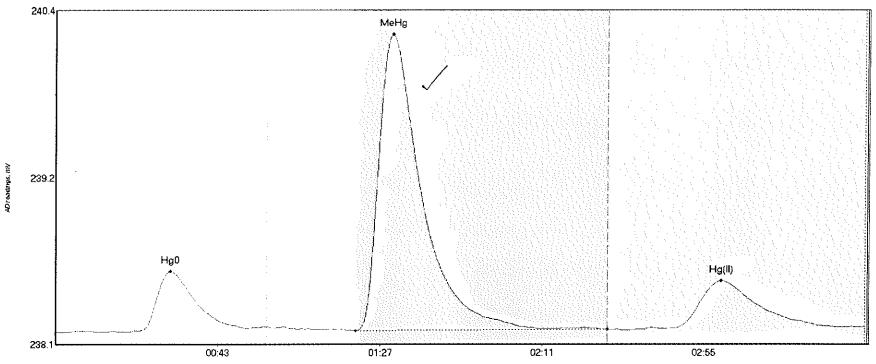
Start Time EndTime StartValue EndValue Peak Max PeakHeight Flags Baseline BlDev BlShift Comment Area 238.2013 0.00 1607800-01RE1 H 32.029 14.2 56.0 238.21 238.23 31.1 0.281 OK 0.04 016 238,2013 0.00 1607800-01RE1 M 8.032 81.9 113.7 238.22 238.23 91.4 0.065 ÇК 0.04 1607800-01RE1 H 60.106 161.3 216.6 238.23 238.24 180.8 0.346 OK 238.2013 0.00 0.04

#40: F607432-DUP2



Name	Area	Start Tim	e EndTime	StartValu	e EndValue	Peak Max	PeakHeig	nt Flags	Baseilne	BIDev	BIShift	Comment	
F607432-DUP2 H	g 35.819	22.3	53.6	238.20	238.23	31.0	0.311	OK	238.2063	0.00	0.03		016
F607432-DUP2 M	é 141.691	80.1	149.3	238.21	238.21	91.2	1.032	OK	238.2063	0.00	0.03		210
F607432-DUP2 H	g 50.269	166.1	218.4	238.21	238.23	181.3	0.282	OK	238.2063	0.00	0.03		

#41: F607432-MS3



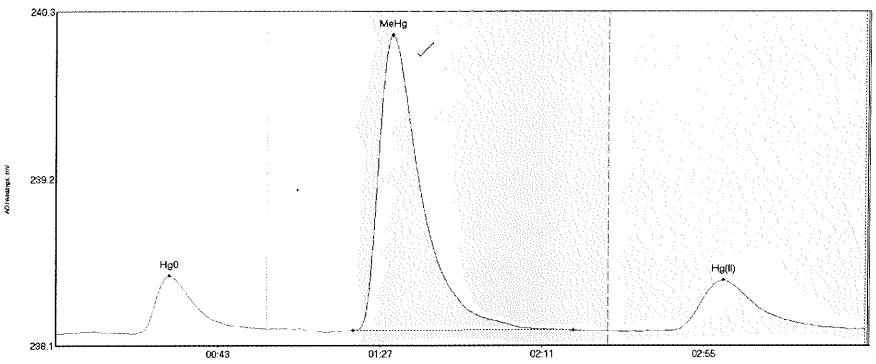
CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Tir	me EndTime	StartValu	e EndValue	Peak Max	PeakHeig	ht Flags	Baseline	BìDev	BlShift	Comment	
F607432-MS3	Hg0 46.393	19.8	52.1	238.20	238.22	31.2	0.406	OK	238.1903	0.00	0.04		016
F607432-MS3	MeH 270.107	81.5	149.9	238.20	238.21	91.4	1.994	OK	238.1903	0.00	0.04		11.0
F607432-MS3	Hg(56.700	159.7	213.7	238.21	238.23	180.8	0.326	OK	238.1903	0.00	C.04		

Comment

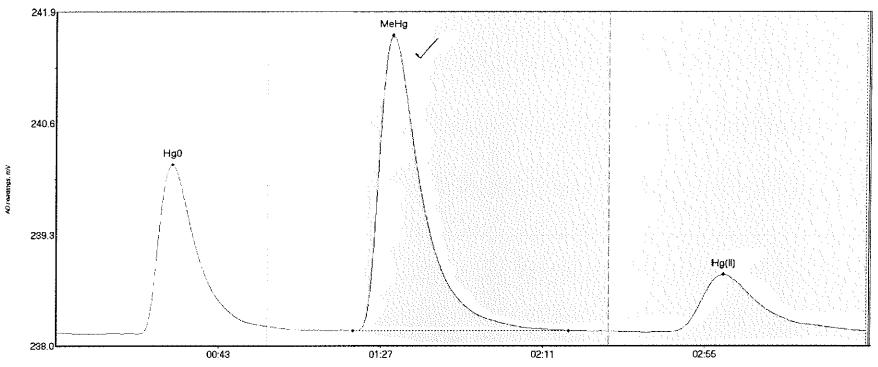
016

#42: F607432-MSD3



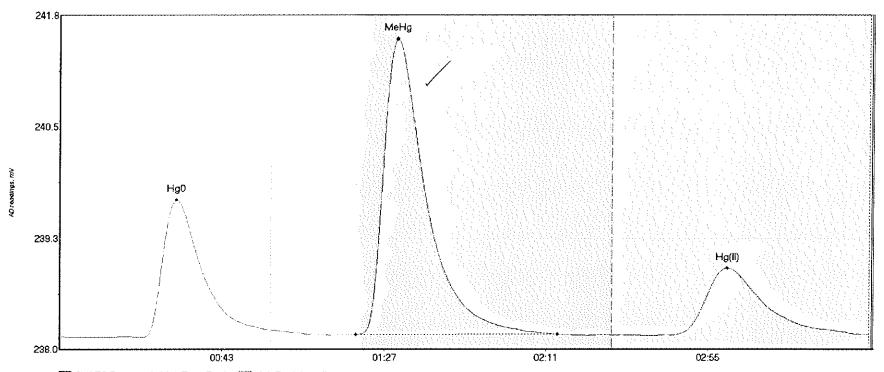
Name Ar F607432-MSD3 Hg 45 F607432-MSD3 Me 26 F607432-MSD3 Hg 58	5.575 21.2 66.700 80.8	140	5 238.18 .5 238.20	EndValue 238.21 238.20 238.21	30.9 91.3		CT	238.1799 238.1799	0.00 0.00	BlShift 0.03 0.03 0.03
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#43: F607432-MS4



Name	Area	Start Time	: EndTime	StartValue	EndValue	Peak Max	PeakHeight	. Flags	Baseline	BlDev	BlShift	Comment	
£607432-MS4 Hq0	227.436	22.1	57.5	238.16	238.25	31.4	1.948	CT	238.1720	0.00	0.03		316
F607432-MS4 MeH	456.874	80.4	139.0	238.19	238.20	91.3	3.403	OK	238.1720	0.00	0.03		316
F607432-MS4 Hg(118.278	166.6	218.9	238.19	238.20	181.2	0.659	OK	238.1720	0.00	0.03		

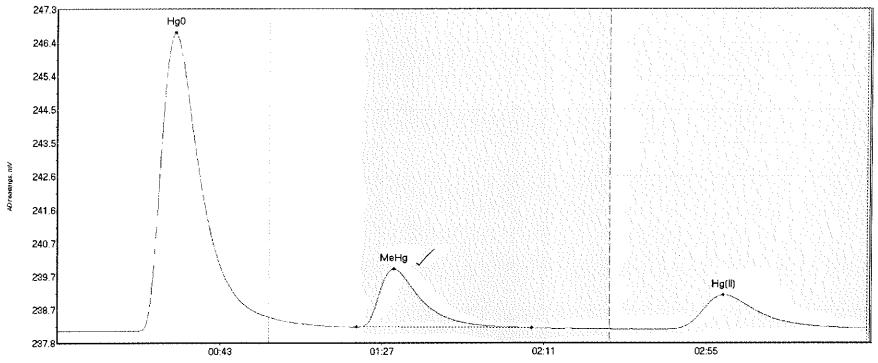
#44: F607432-MSD4



CVAFS Detector (mV) `Extra Peaks MainPeak baseline

Name	Area	Start Tim	e EndTime	StartValue	e EndValue	Peak Max	PeakHeigh	t Flags	Baseline	BIDev	BIShift	Comment	
F607432-MSD4	Hg 181.141	22.4	57.5	238.15	238.23	31.6	1.543	CT	238.1560	0.00	0.02		016
F607432-MSD4	Me 443.091	80.3	135.1	238.18	238.18	91.5	3.312	OK	238.1560	0.00	0.02		216
F607432-MSD4	Hg 134.821	166.5	219.8	238.17	238.18	181.3	0.752	CT	238.1560	0.00	0.02		

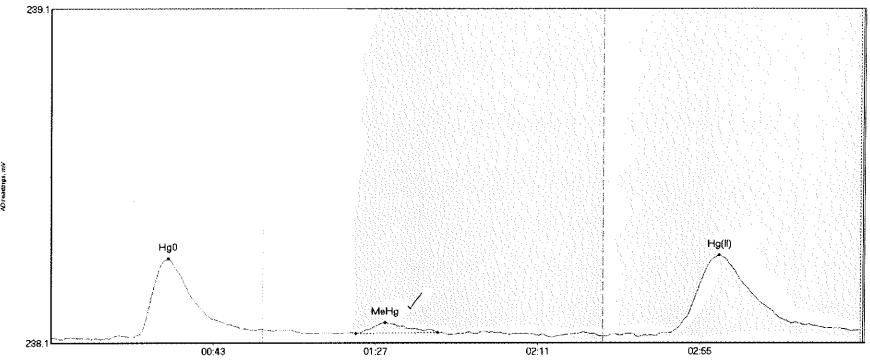
#45: SEQ-CCV3



CVAFS Detector (mV) * Extra Peaks MainPeak baseline

Name	Area	Start Time	EndTime	StartValue	e EndValue	Peak Max	PeakHeigh	t Flags	Baseline	BlDev	BìShift	Comment	
SEQ-CCV3 Hg0	1021.620	17.9	57.5	238.14	238.53	31.8	8.521	CT	238.1387	0.00	0.08		016
SEQ-CCV3 MeHg	221,806	81.2	128.7	238.25	238.22	91.3	1.665	CK	238.1387	0.00	0.08		310
SEC-CCV3 Ha(II)	170.706	166.2	219.7	238.19	238.21	180.8	0.974	OK	238.1387	0.00	0.08		

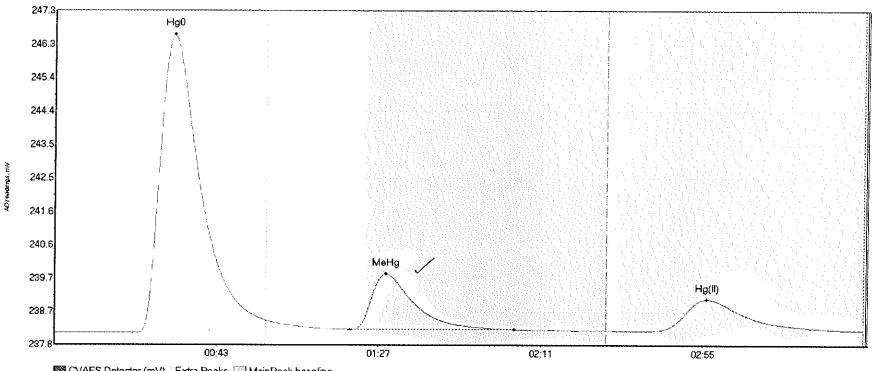
#46: SEQ-CCB3



CVAFS Detector (mV) Extra Peaks MainPeak baseline

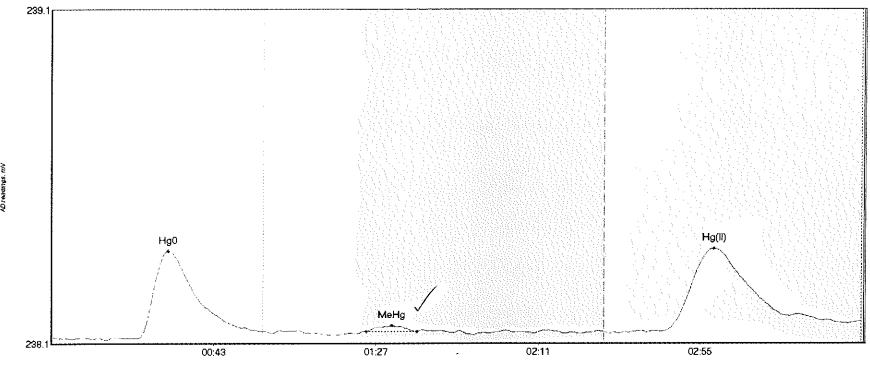
Name	Area	Start lim	e Engline	Startvale	e chovarue	reak max	reakheidi	it riays	paserine	D1.Dev	DISHILL	Commenc	
SEQ-CCB3 Hg0	27.674	22.1	55.5	238.13	238.15	31.8	0.234	OK	238.1270	0.00	0.02		016
SEQ-CCB3 MeHg	3.485	82.8	104.9	238.14	238.14	90.7	0.033	OK	238.1270	0.00	0.02		21.0
SEQ-CCB3 Hg(ÏI) 41.840	164.0	217.5	238.13	238.15	181.3	0.241	OK	238.1270	0.00	0.02		

#47: SEQ-CCV4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
SEQ-CCV4 Hg0	1021.259	22.4	57.5	238.12	238.48	32.4	8.476	CT	238.1257	0.00	0.08		
SEQ-CCV4 MeHg	211.525	80.1	124.8	238.22	238.22	90.0	1.589	OK	238,1257	0.00	0.08		016
SEQ-CCV4 Hg(II)	168.610	161.2	217.9	238.18	238.21	177.1	0.908		238.1257		0.08		

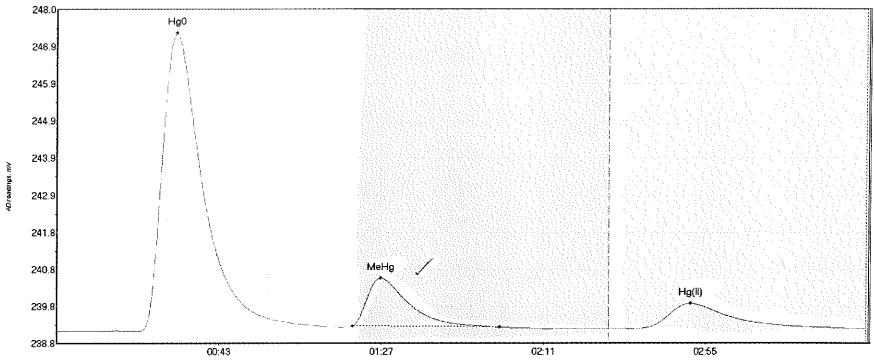
#48: SEQ-CCB4



CVAFS Detector (mV) * Extra Peaks MainPeak baseline

Name SEQ-CCB4 Hg0 SEQ-CCB4 MeHg SEQ-CCB4 Hg(II)		Start Time 23.3 85.5 165.8	e EndTime 56.5 99.3 216.1	StartValue 238.15 238.17 238.17	EndValue 238.17 238.17 238.20	Peak Max 31.7 92.5 179.7	PeakHeight 0.263 0.018 0.247	,	238.1525	0.00 0.00	BlShift 0.05 0.05 0.05	Comment	016
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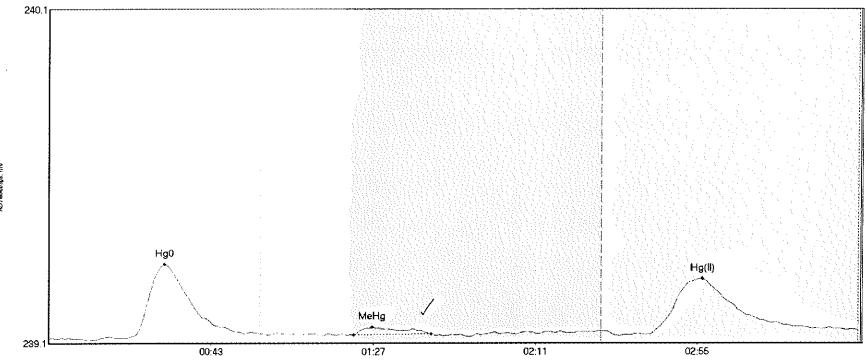
#49: SEQ-CCV5



CVAFS Detector (mV) Extra Peaks MainPeak baseline

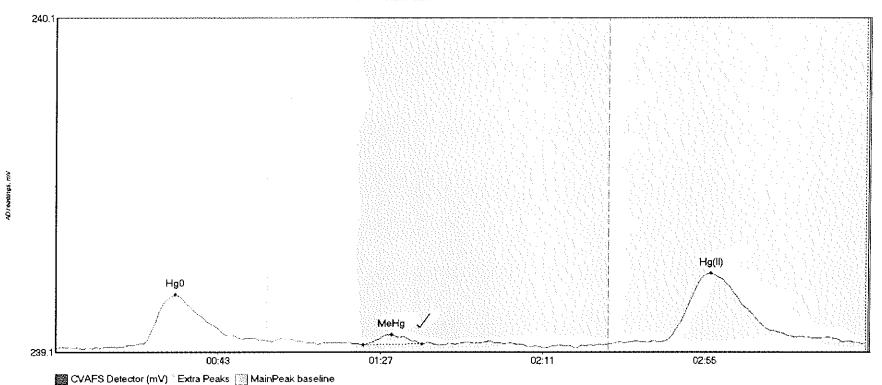
Name	Area	Start Time	EndTime	StartValue	: EndValue	Peak Max	PeakHeight	; Flags	Baseline	BIDev	BIShift	Comment	
SEQ-CCV5 Hg0	977.622	11.9	57.5	239.13	239.47	32.4	8.179	CT	239.1212	0.00	0.07		316
SEQ-CCV5 MeHg	172.191	80.1	120.2	239.26	239.23	87.9	1.316	OK	239.1212	0.00	0.07		310
SEQ-CCV5 Hg(II)	136.242	155.8	219.7	239.19	239.19	172.1	0.693	OK	239.1212	0.00	0.07		

#50: SEQ-CCB5



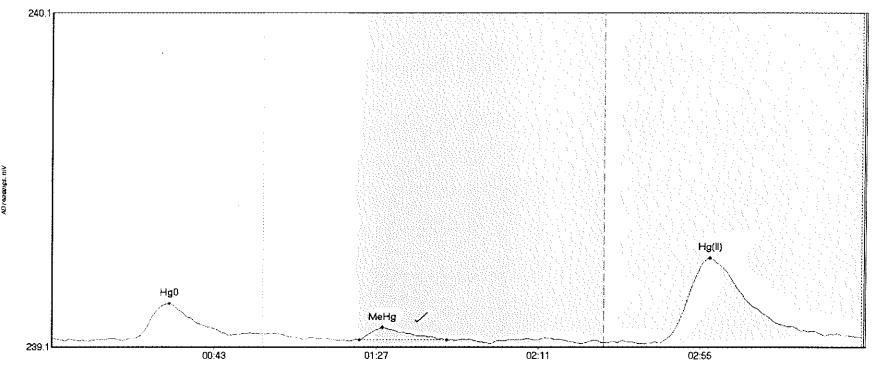
CVAFS Detector (mV) * Extra Peaks MainPeak baseline

Name	Area	Start Ti	me Endrime	Startvait	e Endvalue	reak max	reakneig	nt rrags	Daserine	proev	BISHILL	Commence	
SEQ-CCB5 Hg0	26.436	21.2	53.1	239.14	239.16	31.4	0.222	OK	239.1416	0.00	0.03		016
SEQ-CCB5 MeHo	2.933	82.7	103.9	239.15	239.15	87.0	0.024	OK	239.1416	0.00	0.03		310
SEQ-CCB5 Rg(I	1) 30.721	162.8	217.0	239.15	239.17	177.4	0.168	OK	239.1416	0.00	0.03		



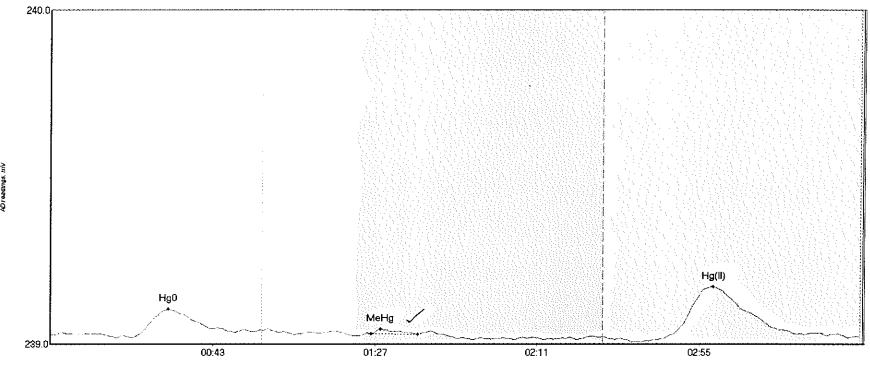
Start Time EndTime Area StartValue EndValue Peak Max PeakHeight Flags Baseline BlDev BlShift Comment 0.155 239.1308 0.00 F608200-BLK1 Hg 20.962 18.2 57.5 239.13 239.15 32.3 CT 0.01 016 239.1308 0.00 F608200-BLK1 Me 2.630 83.3 99.3 239.14 239.14 91.0 0.031 OK 0.01 F608200-BLK1 Hg 38.066 154.4 216.9 239.15 239.15 177.7 0.210 239.1308 0.00 0.01

#52: F608200-BLK2



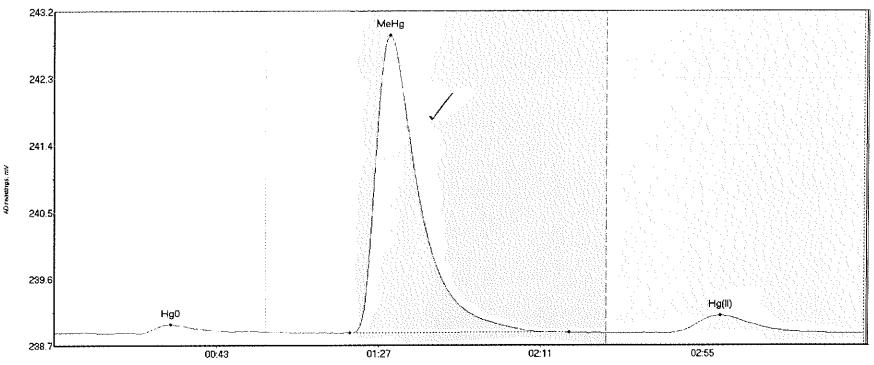
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift (Comment	
F608200-BLK2 Hg	12.452	22.5	48.0	239.09	239.10	31.8	0.104	OK	239.0895	0.00	0.01		216
F608200-BLK2 Me	4.359	83.5	107.3	239.09	239.09	89.8	0.038	OK	239.0895	0.00	0.01		016
F608200-BLK2 Hg	46.444	164.8	218.9	239.08	239.09	178.8	0.254	OK	239.0895	0.00	0.01		

#53: F608200-BLK3



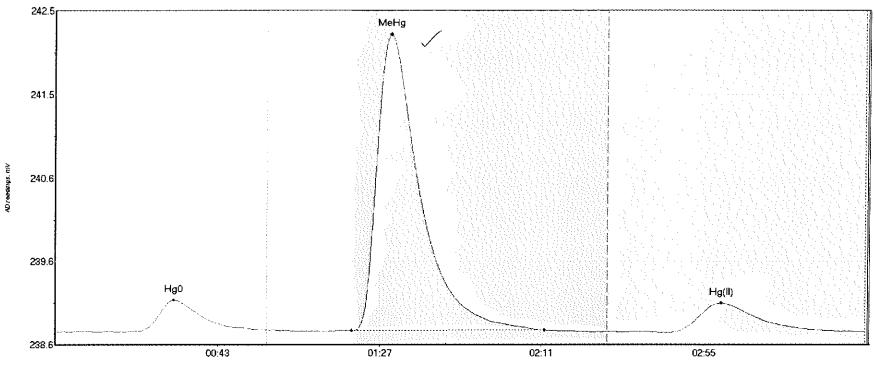
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BIDev	BiShift Com	nent	
F608200-BLK3 Hg	10.245	22.5	49.9	239.00	239.01	31.9	0.083	OK	239.0064	0.00	-0.01		016
F608200-BLK3 Me	0.945	86.9	99.6	239.01	239.01	89.4	0.013	OK	239.0064	0.00	-0.01		770
F608200-BLK3 Hg	28.418	166.2	216.6	238.99	239.00	179.9	0.156	OK	239.0064	0.00	-0.01		

#54: F608200-BS1



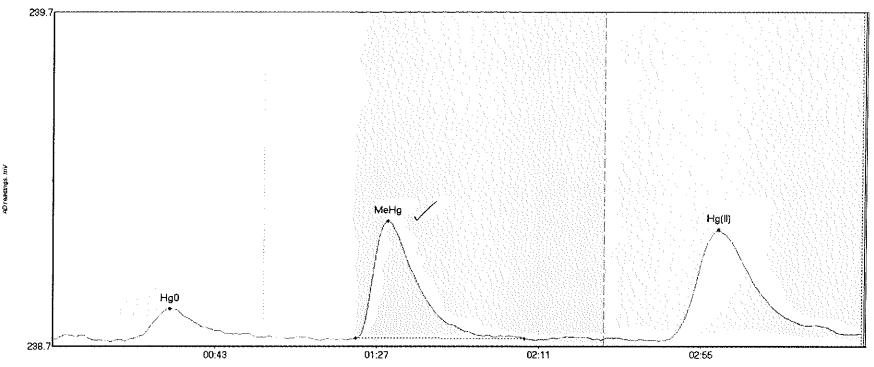
Nan	e	Area	Start Time	EndTime	StartValue	Endvalue	reak Max	reakheight				BISHILL	Солиненс	
F60	8200-BS1 Hq0	14.647	23.1	57.1	238.90	238.91	31.6	0.118	OK	238.9032	0.00	-0.01		016
F60	8200-BS1 MeH	539.036	80.3	139.9	238.90	238.91	91.0	3.990	OK	238.9032	0.00	-0.01		210
	8200-BS1 Hg(166.7	211.3	238.89	238.89	180.9	0.237	OK	238.9032	0.00	-0.01		

#55: F608200-BSD1



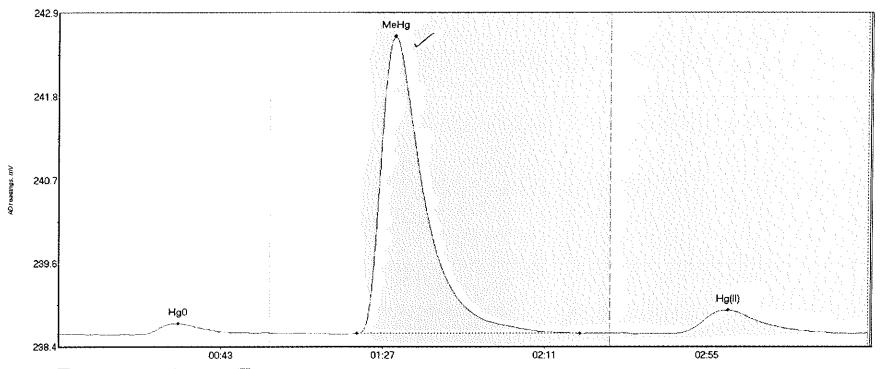
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F608200-BSD1 Hg	45.271	20.4	56.7	238.79	238.80	32.2	0.363	OK	238.7834	0.00	0.01		216
F608200-BSD1 Me	455.438	80.5	132.9	238.80	238.80	91.0	3.399	OK	239.7834	0.00	0.01) T to
F608200-BSD1 Hg	59.862	166.4	213.3	238.77	238.79	180.8	0.340	OK	238.7834	0.06	0.01		
_													

#56: F608200-DUP1



Name	Area	Start Ti	me EndTime	StartValı	e EndValue	Peak Max	PeakHeig	ht Flags	Baseline	BlDev	BlShift	Comment	
F608200~DUP1	Hg 13.271	19.8	56.0	238.68	238.69	31.8	0.098	OK	238.6845	0.00	0.02		216
F608200-DUP1	Me 47.424	82.5	128,2	238.69	238.69	91.0	0.351	OK	238.6845	0.00	0.02		016
F608200-DUP1	Hg 58.368	167.2	216.0	238.68	238.70	180.8	0.327	OK	238.6845	0.00	0.02		

#57: F608200-MS1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

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F608200-MS1	1
F608200-MS1	Ì
F608200-MS1	I

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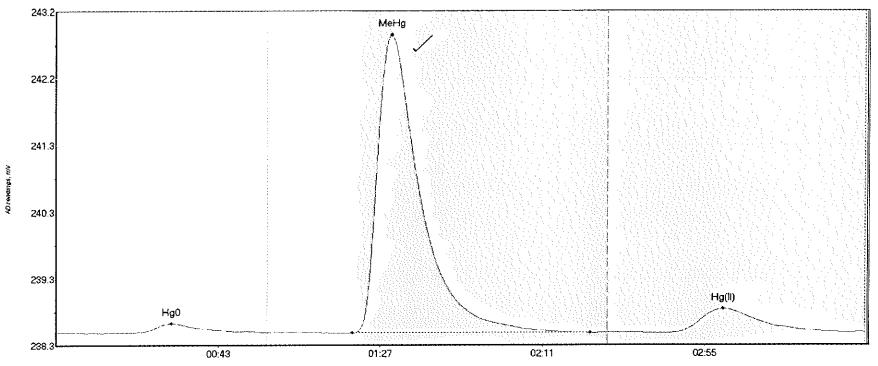
OK

ΟK

OK

0.02

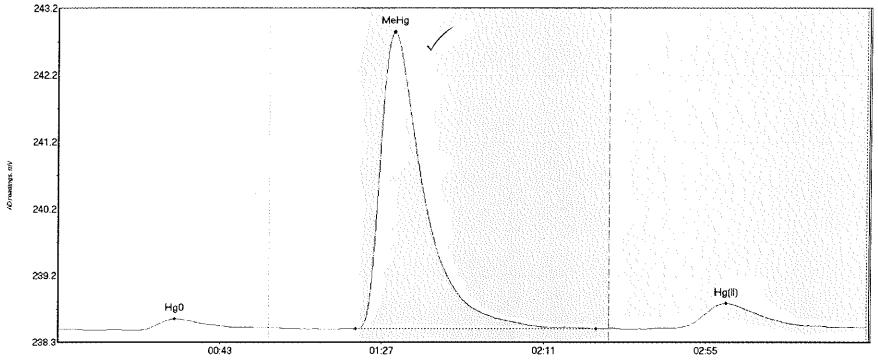
#58: F608200-MSD1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Tir	me EndTime	StartValu	e EndValue	Peak Max	PeakHeigl	ht Flags	Baseline	BiDev	BiShiit	Comment	
F608200-MSD1 Ho	17.155	21.5	56.3	238.52	238.52	31.4	0.129	OK	238.5148	0.00	0.01		016
F608200-MSD1 Me		80.5	145.1	238.51	238.51	91.1	4.341	OK	238.5148	0.00	0.01		310
F608200-MSD1 Hc		166.1	213.7	238.51	238.52	181.0	0.353	OK	238.5148	0.00	0.01		

#59: F608200-MS2



CVAFS Detector (mV) * Extra Peaks | MainPeak baseline

F608200-MS2 F608200-MS2	_	
F608200-MS2	Hg(61.922

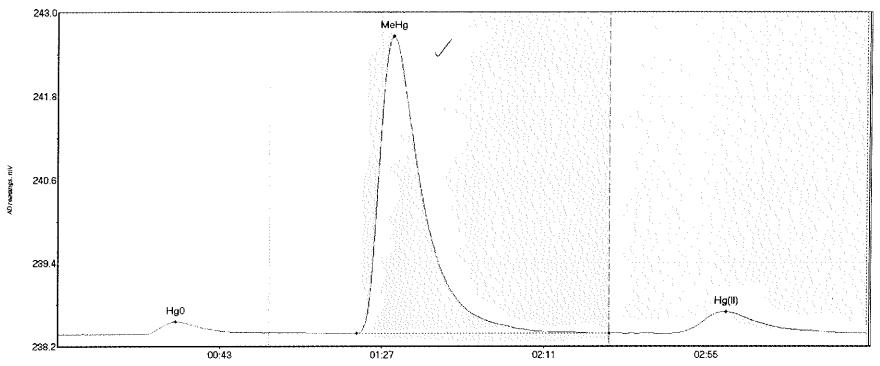
Area

Time	EndTir
	57.5
	146.3
	214.1
	Time

0.03

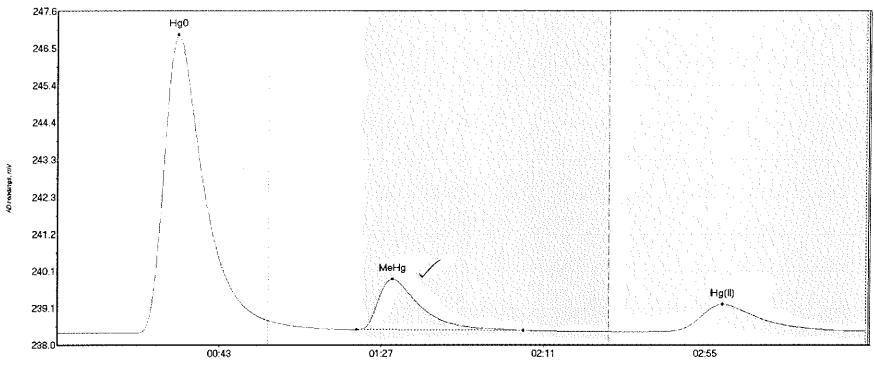
Name

#60: F608200-MSD2



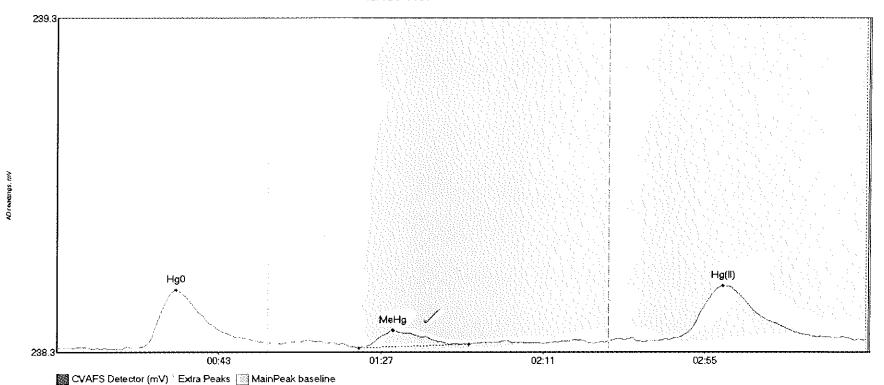
Name	Area	Start T:	ime EndTime	StartValu	ie EndValue	Peak Max	PeakHeig	int Flags	Haseline	∃TDe∧	HISBLIE	Comment	
F6082	00-MSD2 Hg 21.614	22.9	56.4	238.40	238.42	32.1	0.180	OK	238.3946	0.00	0.01		016
F6082	200-MSD2 Me 576.299	81.1	149.9	238.41	238.41	91.1	4.249	OK	238.3946	0.00	0.01		310
F6082	200-MSD2 Hg 57.434	165.9	216.5	238.40	238.41	181.5	0.313	OK	238.3946	0.00	0.01		

#61: SEQ-CCV6



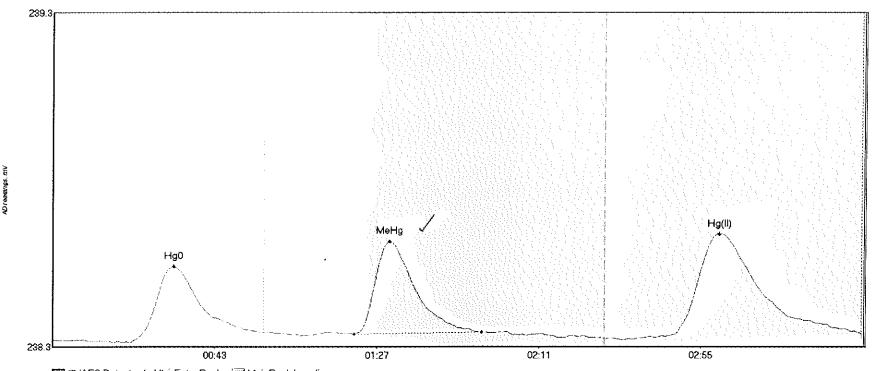
CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Time	: EndTime	StartValue	EndValue	Peak Max	PeakHeight	. Flags	Baseline	BlDev	BlShift	Comment	
SEQ-CCV6 Hg0	1013.575	20.9	57.5	238.35	238.71	32.9	8.526	CT	238.3513	0.00	0.06		216
SEQ-CCV6 MeHg	192.995	81.4	126.6	238.45	238.42	91.1	1.453	OK	238.3513	0.00	0.06		310
SEQ-CCV6 Hg(II)	141.039	161.9	217.5	238.39	238.41	180.8	0.780	OK	238.3513	0.00	0.06		



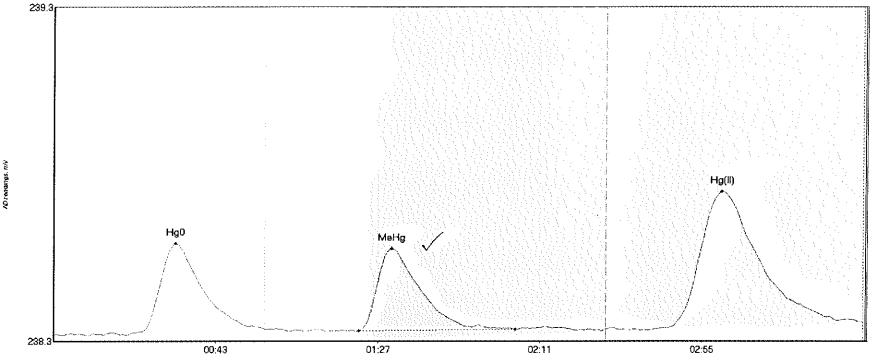
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
SEQ-CCB6 Hg0	22.212	23.1	57.2	238.33	238.34	32.5	0.171	OK	238.3259	0.00	0.03		016
SEQ-CCB6 MeHg	6.597	82.0	111.9	238.33	238.34	91.3	0.054	OK	238.3259	0.00	0.03		110
SEO-CCB6 Hg(II)	28.580	166.7	216.6	238.35	238.35	180.9	0.161	OK	238.3259	0.00	0.03		

#63: 1607339-01RE1



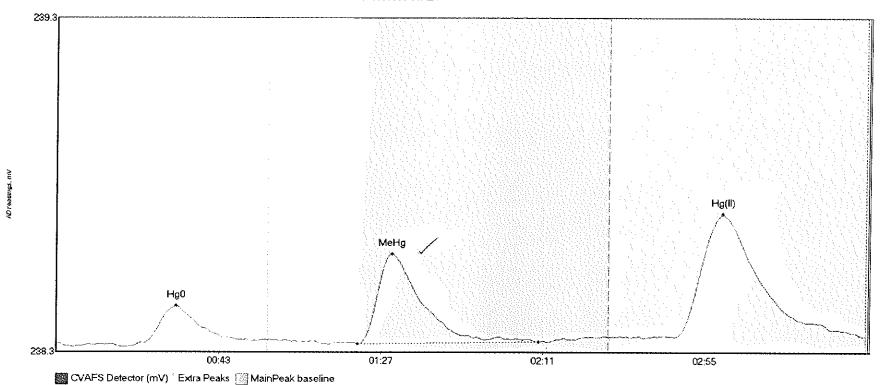
Name	Area	Start Tim	e EndTime	StartValu	e EndValue	Peak Max	PeakHeight	. :lags	Baseiine	BiDev	BiShift	Comment	
1607339-	01RE1 H 29.130	21.0	56.2	238.31	238.34	32.9	0.229	OK	238.3165	0.00	0.02		314
1607339-	01RE1 M 34.590	81.9	116.6	238.33	238.34	91.4	0.277	OK	238.3165	0.00	0.02		310
1607339-	01RE1 H 57.485	163.9	219.8	238.32	238.34	181.0	0.311	CT	238.3165	0.00	0.02		





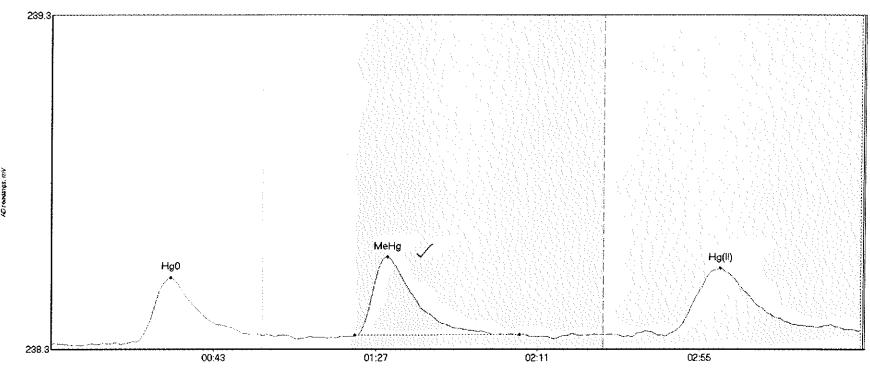
Name	Area	Start Tim	e EndTime	StartValu	e EndValue	Peak Max	PeakHeigl	ht Flags	Baseline	BlDev	BiShift	Comment	
1607339-02RE1	L Н 34.088	21.8	57.5	238.31	238.32	33.1	0.269	CT	238.3032	0.00	0.04		216
1607339-02REI	L M 33.023	82.9	125.5	238.31	238.32	91.7	0.247	OK	238.3032	0.00	0.04		316
1607339-02REI	L H 73.082	166.4	219.2	238.32	238.34	181.5	0.409	OK	238.3032	0.00	0.04		

#65: 1607380-01RE1



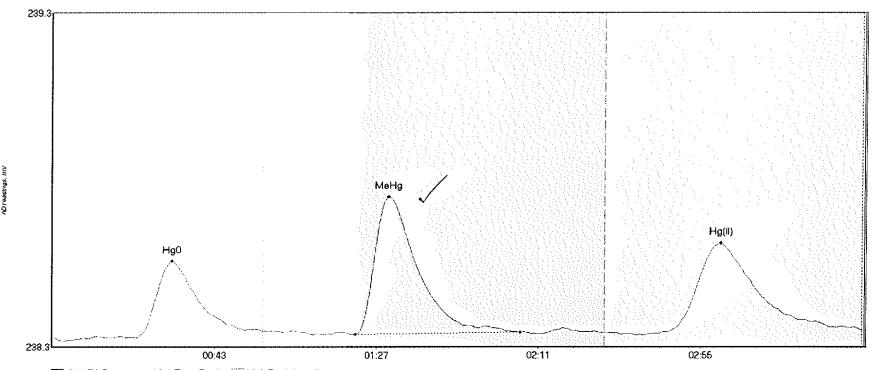
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607380-01RE1	н 12.579	23.5	54.8	238.31	238.31	32.4	0.112	OK	238.3045	0.00	0.02		
1607380-01RE1 t	M 37.751	81.8	130.9	238.30	238.31	91.0	0.271	OK	238,3045	0.00	0.02		016
1607380-01RE1 I	4 66.111	168.2	219.0	238.33	238.33	180.9	0.367	OK	238.3045	0.00	0.02		

#66: 1607380-03RE1



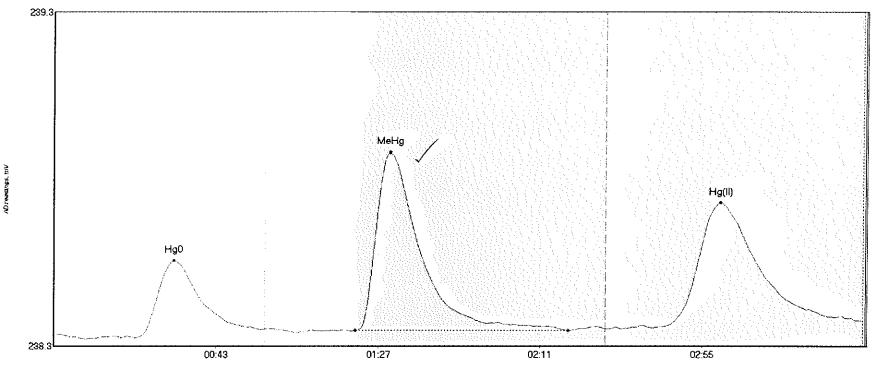
Name	Area	Stait lime	Engline	Startvalue	FROVATUE	геак мах	reakseight	riags	Baseilne	BineA	BISHILL	Comment	
1607380-03RE1 E	H 24.576	23.0	57.5	238.31	238.33	32.5	0.192	CT	238.3078	0.00	0.04		016
1607380-03RE1 N	M 30.737	82.5	127.3	238.33	238.33	91.1	0.236	OK	238.3078	0.00	0.04		310
1607380-03RE1 B	H 36.972	166.7	219.2	238.33	238.35	181.7	0.203	OK	238.3078	0.00	0.04		

#67: 1607380-05RE1



Name	Area	Start Tim	e EndTime	StartValue	e EndValue	Peak Max	PeakHeigh	nt Flags	Baseline	BlDev	BlShift	Comment	
1607380-05REI	. H 27.855	22.7	57.5	238.32	238.34	32.5	0.229	ĊT	238.3153	0.00	0.03		016
1607380-05RE	M 55.024	82.3	127,1	238.33	238.33	91.3	0.413	OK	238.3153	0.00	0.03		31.0
1607380-05RE3	. н 47.755	167.0	219.8	238.34	238.34	181.6	0.265	CT	238.3153	0.00	0.03		

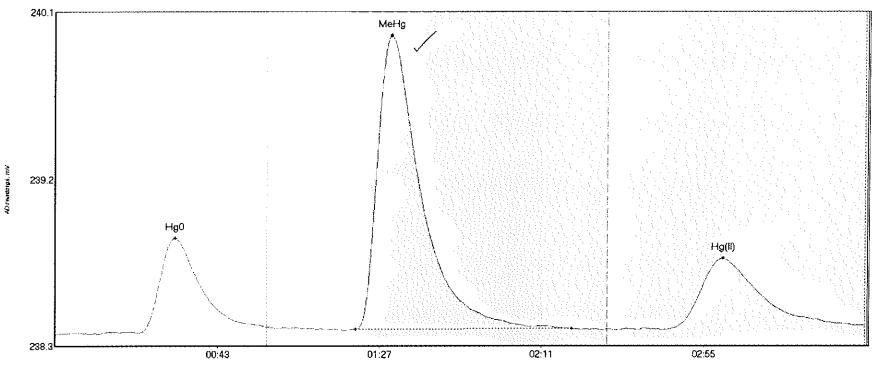
#68: 1607380-07RE1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607380-07RE1 H	1 28.642	22.1	56.1	238.31	238.33	32.6	0.231	OK	238.3202	0.00	0.04		016
1607380-07RE1 M	1 74.293	81.9	139.8	238.33	238.33	91.1	0.533	OK	238.3202	0.00	0.04		116
1607380-07RE1 H	68.192	162.4	219.6	238.34	238.36	181.1	0.376	OK	238.3202	0.00	0.04		

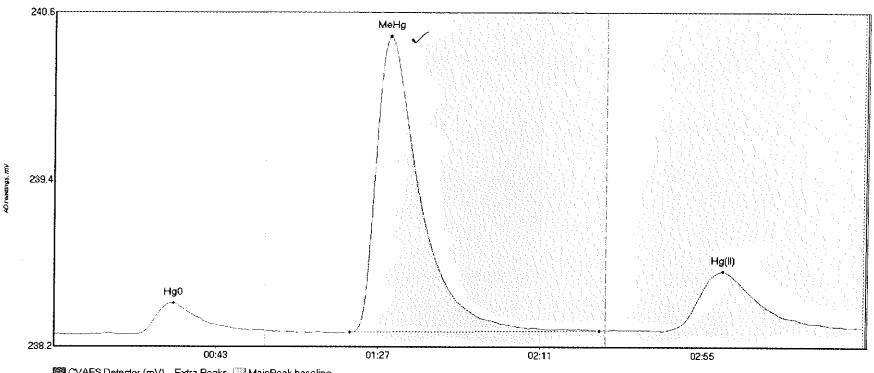
#69: 1607380-09RE1



CVAFS Detector (mV) * Extra Peaks MainPeak baseline

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607380-09RE1 H	64.401	12.1	57.5	238.32	238.36	32.4	0.544	CT	238.3233	0.00	0.05		216
1607380-09RE1 M	1 226,273	81.6	140.3	238.35	238.35	91.2	1.665	OK	238.3233	0.00	0.05		210
1607380-09RE1 H	72.787	166.1	217.8	238.35	238.37	181.3	0.404	OK	238.3233	0.00	0.05		

#70: 1607380-13RE1



Name		Area
1607380-13RE1	H	27.356
1607380-13REI	М	287.449
1607380-13RE1	Н	76.369

Start 22.3 80.4 165.2	Time	EndTime 57.5 148.2 219.7
100.2		213.1

StartValue	EndValue
238.34	238.37
238.35	238.36
238.36	238.39

Feak Max 32.6 91.1 181.5

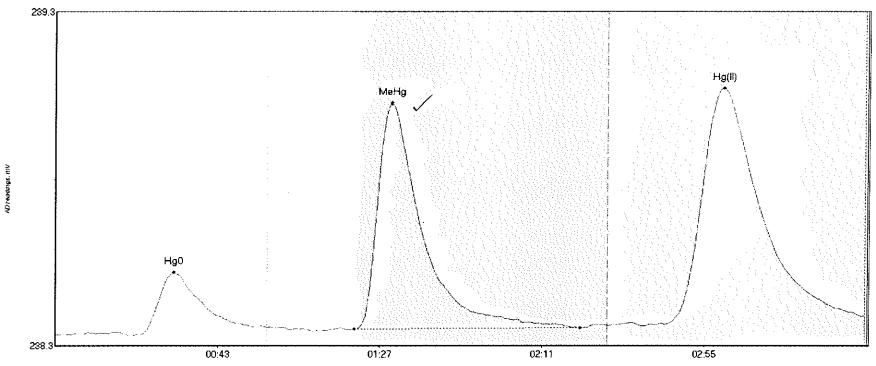
reakmergiit	L T C
0.220	CT
2.104	OK
0.426	OK

Baseline
238.3396
238.3396
238.3396

ie 16	BlDev 0.00 0.00
6	0.00

BlShift	Comment
0.05	
0.05	
0.05	

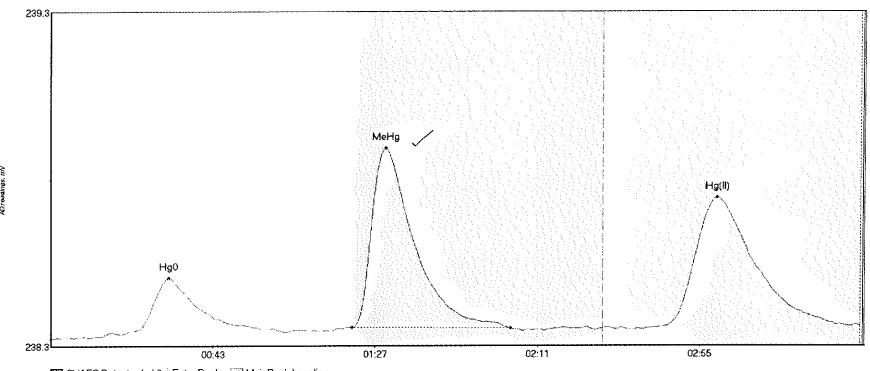
#71: 1607586-01RE1



CVAFS Detector (mV) Extra Peaks MainPeak basefine

Name	Area	Start Tim	ne EndTime	StartValu	e EndValue	Peak Max	PeakHeig!	ht Flags	Baseline	BlDev	BlShift	Comment	
1607586-01RE1	H 22.542	23.4	57.4	238.35	238.37	32.1	0.185	OK	238.3450	0.00	0.06		016
1607586-01RE	M 94.122	81.1	142.5	238.36	238.36	91.3	0.675	OK	238.3450	0.00	0.06		310
1607586+01RE1	Н 127.068	165.4	219.1	238.38	238.40	181.3	0.707	OK	238.3450	0.00	0.06		

#72: 1607586-02RE1

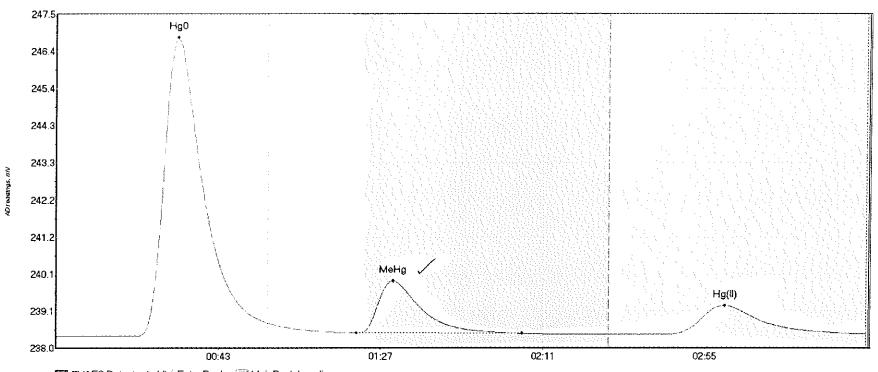


CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name		WICG
1607586-02RE1	H	22.882
1607586-02RE1	М	71.490
1607586-02RE1	H	69.80

12 16	13.8 81.9	Time	EndTime 57.5 124.8 217.3
13	167.0		217.3

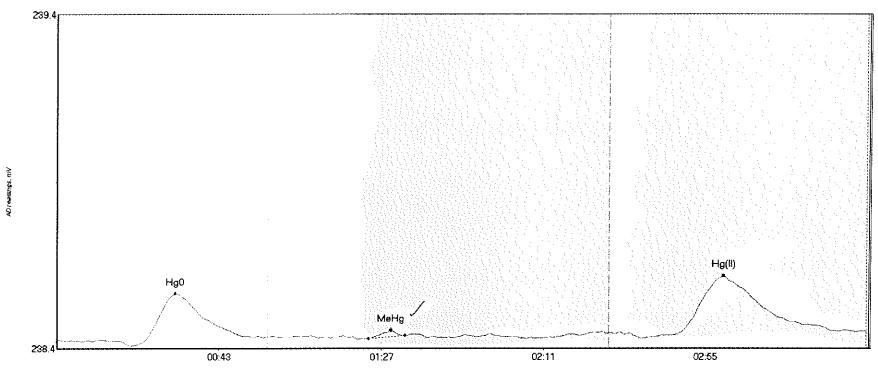




CVAFS Detector (mV) Éxtra Peaks MainPeak baseline

Name	Area	Start Time	e EndTime	StartValu	e EndValue	Peak Max	PeakHeigl	ht Flags	Baseline	BlDev	BlShift	Comment	
SEQ-CCV7 Hg0	991.457	21.6	57.5	238.36	238.72	33.1	8.442	CT	238.3670	0.00	0.07		016
SEQ-CCV7 MeHg	196.085	81.4	126.3	238.45	238.43	91.4	1.476	OK	238.3670	0.00	0.07		11.6
SEO-CCV7 Eq(11)	144.767	166.1	217.4	238.42	238.43	181.5	0.808	OK	238.3670	0.00	0.07		

#74: SEQ-CC87



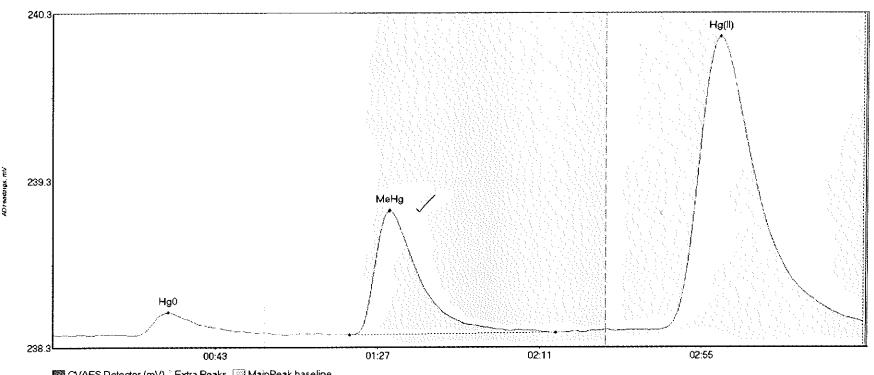
CVAFS Detector (mV) Extra Peaks MainPeak baseline

SEC
SEQ
SEQ

Page 262 of 463

Name	Area	Start Ti	me EndTime	StartVait	ie Endvalue	Peak Max	Peakheig	nt Flags	Baseline	Binea	BISDIE	Comment	
SEQ-CCB7 Hg0	20.140	21.0	56.1	238.37	238.39	32.2	0.155	OK	238.3851	0.00	0.03		016
SEQ-CCB7 MeHg	0.878	84.4	94.5	238.39	238.40	90.6	0.024	OK	238.3851	0.00	0.03		110
SEQ-CCB7 Hg(I	1) 31.077	167.3	212.2	238.40	238.41	180.9	0.176	OK	238.3851	0.00	0.03		

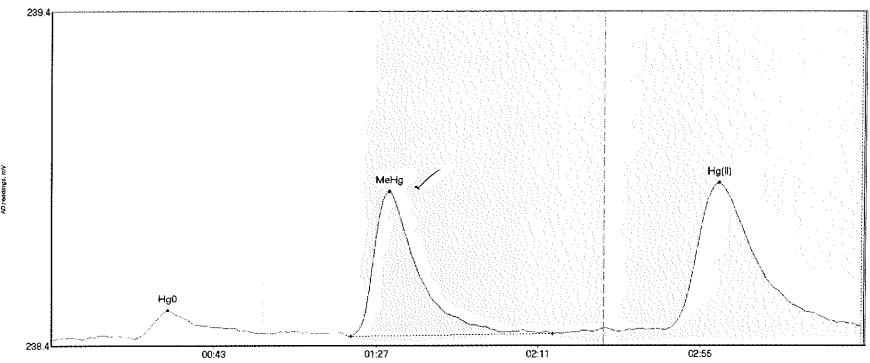
#75: 1607586-03RE1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Time	e EndTime	StartValue	e EndValue	Peak Max	PeakHeig	ht Flags	Baseline	BlDev	BlShift	Comment	
1607586-03RE1	н 17.831	22.2	55.6	238.39	238.41	31.3	0.136	OK	238.3965	0.00	0.08		016
1607586-03RE1		80.5	136.3	238.39	238.41	91.3	0.740	OK	238.3965	0.00	0.08		27.0
1607586-03RE1		164.6	219.8	238.42	238.47	181.1	1.745	CT	238.3965	0.00	0.08		

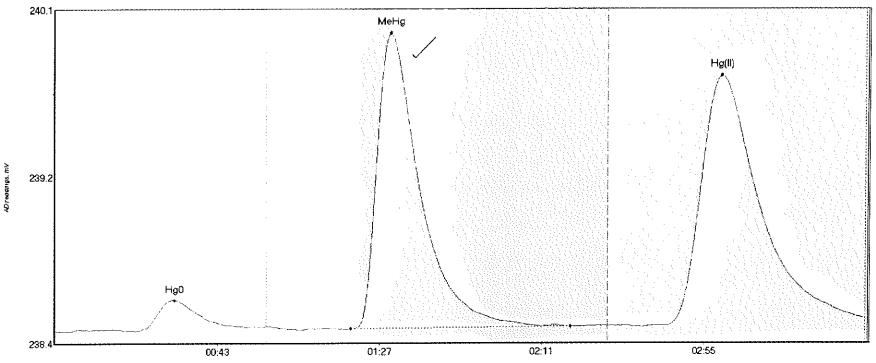
#76: 1607586-04RE1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Fine	Fuditing	Startvalue	SHUVATUE	rear max	reakneight	riags	Daserrile	piper	DISHILL	Comment	
1607586-04RE1	H 10.995	22.6	56.3	238.41	238.43	31.6	0.085	OK	238.4081	0.00	0.04		016
1€07586-04RE1	M 60,040	81.1	136.0	238.42	238.42	91.6	0.434	OK	238.4081	0.00	0.04		310
1607586-04RE1	H 79.527	166.4	219.0	238.44	238.45	181.2	0.441	OK	238.4081	0.00	0.04		

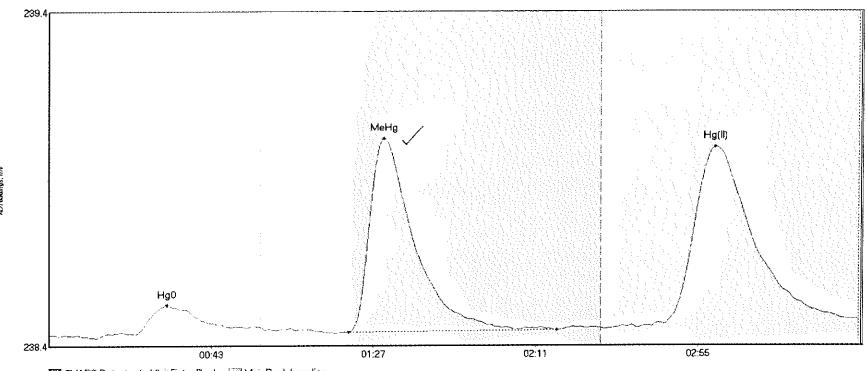
#77: 1607586-05RE1



CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BineA	BISNIIC	Comment	
1607586-05RE1 H	19.404	21.9	51.8	238.42	238.44	32.5	0.166	OK	238.4158	0.00	0.07		016
1607586-05RE1 M		80.3	139.9	238.43	238.44	91.1	1.581	CK	238.4158	0.00	0.07		210
1607586-05RE1 H		166.1	219.8	238.45	238.49	180.9	1.336	ĊТ	238.4158	0.00	0.07		

#78: 1607586-06RE1

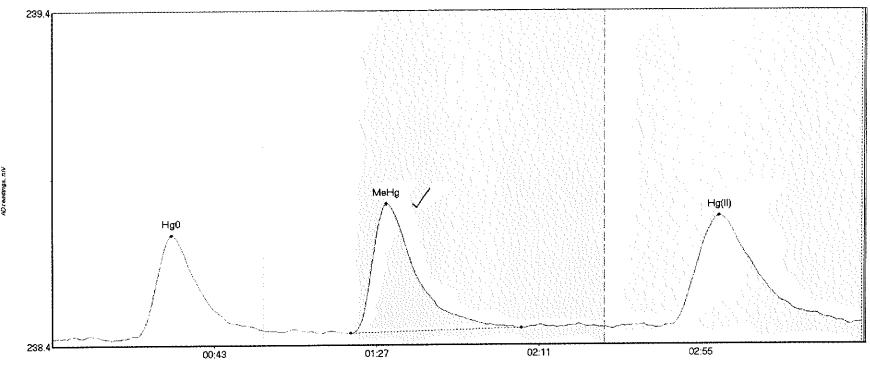


CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name
1607586-
1607586-
1607586-

Name Area Sta	ert Time EndTime	StartValue	Endvalue	Peak Max	reakheight	Flags	Baserine	PineA	B12U1LC	comment	
1607586-06RE1 H 10.984 23.	.5 53.5	238.43	238.45	32.2	0.089	OK	238.4250	0.00	0.05		316
1607586-06RE1 M 80.271 81.	.4 137.9	238.43	238.44	91.0	0.580	OK	238.4250	C.00	0.05		310
1607586-06RE1 H 96.763 159		238.45	238.47	180.8	0.541	OK	238.4250	0.00	0.05		

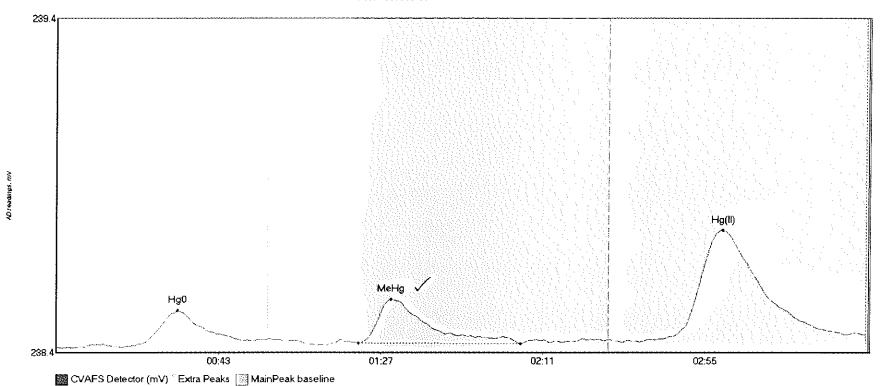
#79: 1607586-07



CVAFS Detector (mV) * Extra Peaks | MainPeak baseline

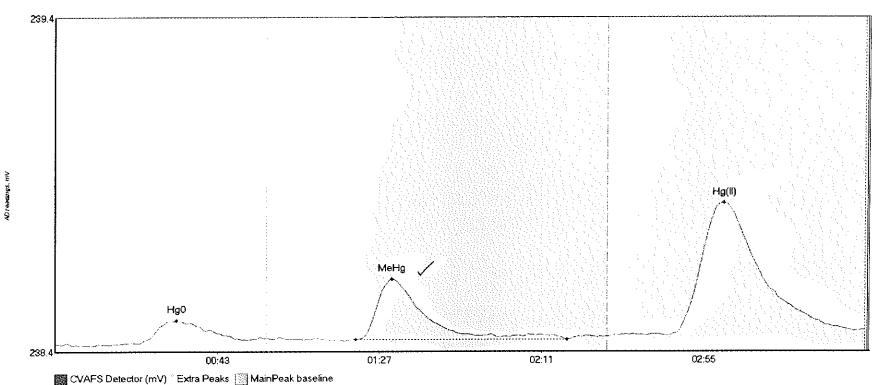
Name 1607586-07 Hg0 1607586-07 MeH 1607586-07 Hg(g 52.582	Start Time 20.1 81.0 165.3	EndTime 57.5 127.3 216.6	StartValue 238.43 238.44 238.46	EndValue 238.45 238.46 238.47	Peak Max 32.4 90.8 181.1	PeakHeight 0.309 0.388 0.335	t Flags CT OK OK	Baseline 238.4275 238.4275 238.4275	0.00	BlShift 0.04 0.04 0.04	Comment	016
--	----------	-------------------------------------	-----------------------------------	--	--	-----------------------------------	---------------------------------------	---------------------------	--	------	---------------------------------	---------	-----

#80: 1607586-08



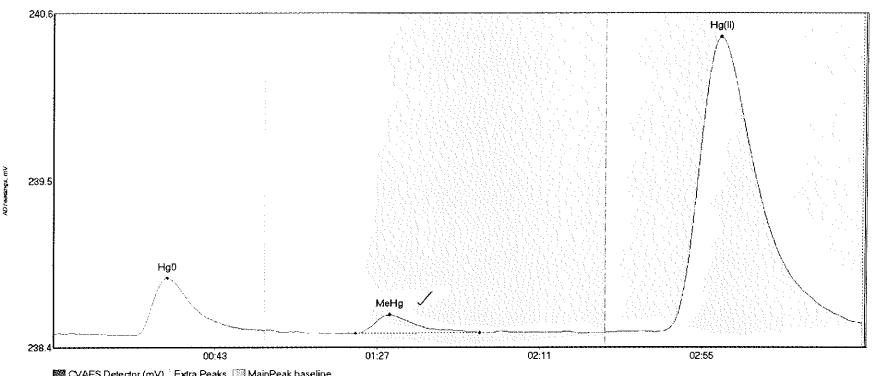
Name		Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
16075	586-08 Hg0	12.593	21.2	53.3	238.45	238.46	32.9	0.105	OK	238.4431	0.00	0.04		016
16075	586-08 MeHg	20.821	81.9	126.0	238.46	238.45	90.7	0.131	OK	238.4431	0.00	0.04)T0
16075	586-08 Hg(I	59.207	164.4	219.3	238.47	238.48	180.9	0.326	OK	238.4431	0.00	0.04		

#81: 1607586-09



Peak Max PeakHeight Flags Baseline BlDev BlShift Comment Start Time EndTime StartValue EndValue Area 1607586-09 HgC 9.580 1607586-09 MeHg 26.822 1607586-09 Hg(I 71.855 0.068 OK 238.4556 0.00 0.04 238.46 238.47 33.0 22.7 52.4 016 0.181 238.4556 0.00 0.04 238.47 238.47 91.5 OK 81.7 139.0 217.5 181.5 0.398 ΟK 238.4556 C.00 0.04 238.48 238.50 166.4

#82: 1607586-10



CVAFS Detector (mV) Extra Peaks MainPeak baseline

1607586-10 1607586-10	
1607586-10	

Area

Start 22.4	Time	EndTim
32.1		115.9
163.4		219.8

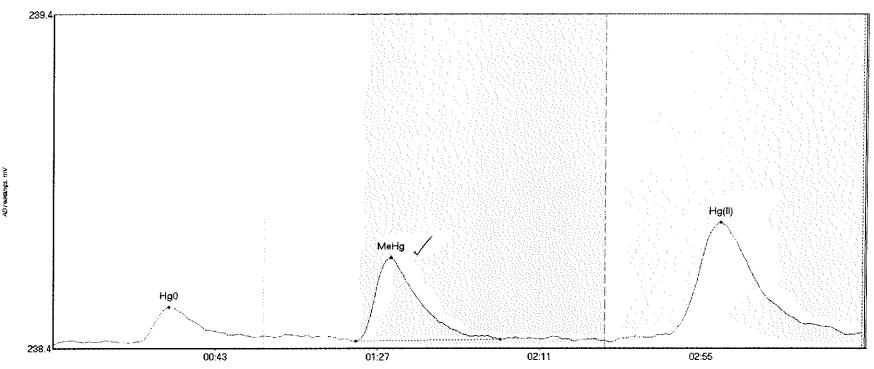
OK

OK

CT

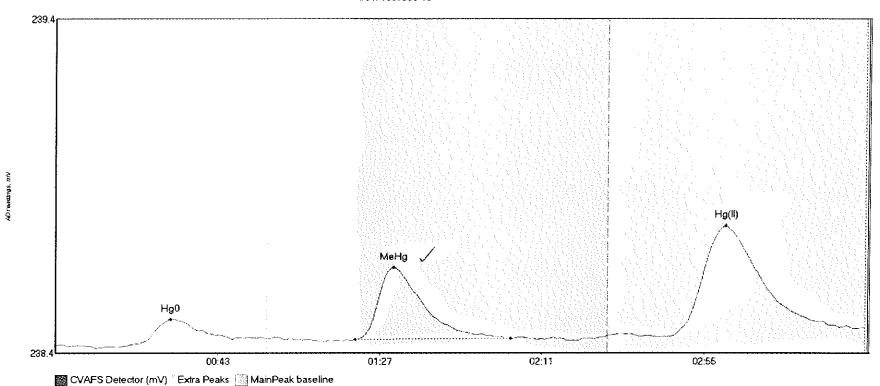
Name

#83: 1607586-11



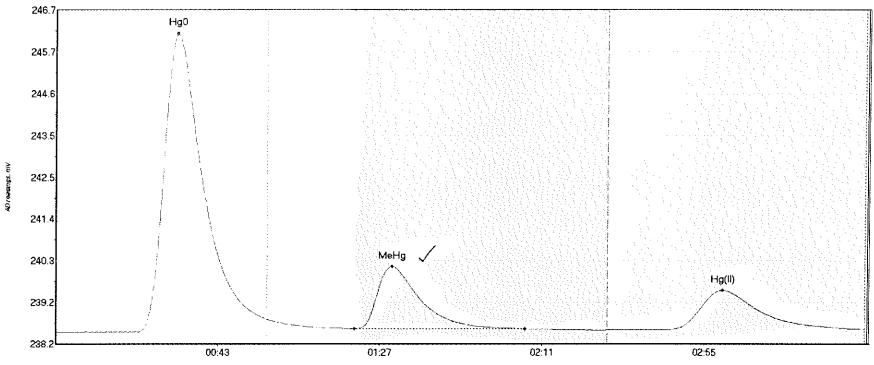
CVAFS Detector (mV) Extra Peaks MainPeak baseline

Name	Area	Start Tim	e Endline	StartValue	e Endvalue	Peak Max	- Peakheigh	t riags	Baseline	Bibev	BISUILE	Comment	
1607586-11 Hg	0 12.809	23.2	54.6	238.47	238.48	31.4	0.103	OK	238.4633	0.00	0.03		016
1607586-11 Me	Hg 34.339	82.1	121.6	238.47	238.47	91.7	0.251	OK	238.4633	0.00	0.03		110
1607586-11 Hg	(I 66.878	151.2	215.8	238.47	238.49	181.3	0.359	OK	238.4633	0.00	0.03		



Name	Area	Start Time	End?ime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607586-13 Hg0	8.495	22.3	47.9	238.47	238.49	31.1	0.073	ŌΚ	238.4693	0.00	0.05		316
1607586-13 MeHg	30.172	81.5	123.6	238.49	238.49	91.7	0.217	ŌΚ	238.4693	0.00	0.05		016
1607586-13 Hg(I	59.002	167.0	217.5	238.50	238.52	181.9	0.329	OK	238.4693	0.00	0.05		

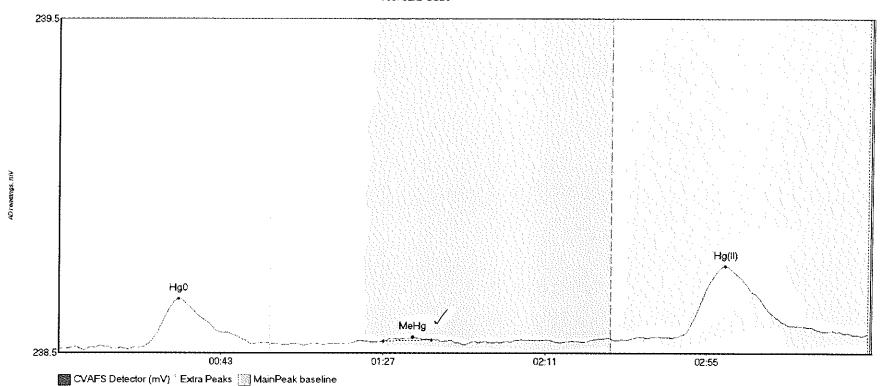
#85: SEQ-CCV8



CVAFS Detector (mV) Éxtra Peaks MainPeak baseline

Name	Area	Start lime	Figline	Staitvalue	Endvaiue	reak Max	Peakheight	fiags	Baseline	Bibea	Biguir Commen	-
SEQ-CCV8 Hg0	899.921	21.4	57.5	238.49	238.80	33.2	7.630	CT	238.4816	0.00	0.08	216
SEQ-CCV8 MeHg	212.548	81.2	127.5	238.57	238.56	91.4	1.595	OK	238.4816	0.00	0.08	016
SEQ-CCV8 Hg(II)	182.237	164.5	219.8	238.54	238.56	181.0	1.011	CT	238.4816	0.00	0.08	

#86: SEQ-CCB8



Name	Area	Start Tim	e EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
SEQ-CCB8 Hg0	18.631	23.0	52.6	238.50	238.51	32.6	0.145	OK _	238.4932	0.00	0.04		
SEQ-CCB8 MeHg	0.729	88.2	101.3	238.51	238.52	96.1	0.011	OK	238.4932	0.00	0.04		016
SEQ-CCB8 Hg(II)	38.366	156.2	218.3	238.52	238.53	181.0	0.217	OK	238.4932	0.00	0.04		

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2015 Rev 5 (08/06/2015)

Analyst:	DON MORAN	Sequence #:		H08006		
Reviewer:	elel.	Dataset ID #:	MMHG2	7001-160805-	-1	
Date: Batch #(s):	8/8/10	Wo #:				
	F608200	Client(s):				
• Select	the correct preparation m	ethod. Additional Co	mments:			
Analyte	Prep Method Matri	lv.				
✓ MHg	FGS-013 MHg Distillation Water					
□мнд	FGS-010 KOH/MeOH Tissu					
☐ MHg	Digest FGS-045 MeCl Extraction Sed/S	Oil				
		1				
☐ Д ИНд	FGS-098 (None Accredited MLL method)					
	жинин жана жана жана жана жана жана жана		Amalusk	V		
			Du	Initials:		r Initials: √V
1. Compare Sa	ample ID with Bench sheet/Sec	quence/Raw Data (Have all samples been impo	orted?) 🗹 YES	□ NO	- <u> </u>	
		spreadsheet (or Prep Bench sheet)/Raw data	✓ YES	□ NO		
(a) Reviewe	er: 100% of peak heights check	ked	YES	□ NO		Ĭ ✓
(b) Are ther	e peak height errors?		YES	☑ NO		Image: section of the
(c) Error on	a sample: Do peak heights, r	esponses, & initial results match corrected dat	ta? 🗌 YES	□ NO	☑ N/A	
	a Cal Pt, ICB/CCB, or PB: Ha		☐ YES	□ NO	☐ N/A	_ [<u>2</u>
(e) Check st	tandards & reagents in sequen	ce & bench sheet for correct usage (i.e. expiri	ies). 🗹 YES	□ NO	□ N/A	
(f) Check ar	nd compare masses (review pro	ep bench sheet)	☐ YES	□ NO	N/A	_ ⊡
(g) Check a	nd compare initial and final vol	lumes	₩ YES	□ NO	N/A	<u>-</u>
(h) Do aliqu	ots and dilutions written on be	enchsheet match those in Excel?		□ NO	□ N/A	<u>-</u>
	I>3.0 for all distilled samples?		YES	□ NO	□ N/A	
(j) Is the se	quence #, analyst, date, and ir	nstrument # on the QC page?	YES	□ NO		<u> </u>
	nalysis status correct? (analyze		☑ YES	□ NO		□⁄
	orep bench sheet added to data	·	☑ YES	NO		<u> </u>
(m) Benchst	neet prep date MUST match ac	tual prep date (check if re-shot vs re-extract)	YES	□ NO		
3. High QA?	WO#(s)/Client(s)			_ NO		<u> </u>
4. Client specifi	c QC? (if Yes, refer to Project			☐ NO		□
	QC requirements been met fo	•	☐ YES	_ No		□
	samples in batch?		√ YES	□ NO		
(a) 3 PBs, 1	LCS/LCSD (or BS/BSD), 2 MS/I	MSD/MD per batch?	✓ YES	□ NO		ą a
	nd 1 CCB every 10 analytical ru		☑ YES	_		
QA/QC Data (∐ NO		g
	on curve included a minimum o	of 5 Standards	✓ PASS	FAIL	☐ N/A	רשל
Comments:		=		☐ !ÆL	∐ N/A	ð
	n Standard % Recoveries (65-	135%)	✓ PASS	☐ FAIL	□ N/A	
Comments:		,	E 1763	☐ FALL	□ H/A	g
3. RSD CF (≤ 1	5%)		✓ PASS	☐ FAT*		
Commonho			<u> </u>	FAIL		\square

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2013 Rev 4 (08/22/2013) Analyst: DON MORAN Sequence #: 6H08006 Reviewer: 0 Dataset ID #: MMHG27001-160805-1 Date: 8/8/2016 WO #: Batch #(s): F608200 Client(s); Analyst Initials: Reviewer Initials: $\mathcal{I}\mathcal{U}$ 9. ICV % Recoveries 67-133% ✓ PASS FAIL " Comments: 10. CCV % Recoveries 67-133% ✓ PASS ☐ FAIL Comments: 11. Are the absolute value of the ICB and CCBs < PQL? ✓ PASS ☐ FAIL 1 Comments: 12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%) PASS FAIL Comments: F608200-BS1, BSD1 FAILED. HIGH RECOVERY 13. LCS/LCSD or BS/BSD RPD (< 25%) ✓ PASS ☐ FAIL M Comments: 14. Water: Average of Preparation Blanks < 0.045 ng/L and standard devaition of 0.015 ng/L? PASS ☐ FAIL ☐ N/A 15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix? □ PASS FAIL . N/A g Comments: □ PASS FAIL 16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done) □ NO YES ☑ N/A 17. Is the correct 'Source' designated for MD/MS/MSD? ✓ YES □ NO 18. For digested preps: was there a spike witness signature & date on the prep bench sheet? ✓ YES ☐ NO □ N/A \square 19. MD RPD/MT RSD(< 35%) ✓ PASS FAIL M Comments: 20. Is there one set of MS/MSD per every 10 samples? ✓ PASS FAIL P Comments: 21. MS/MSD RPD(< 35%) ✓ PASS ☐ FAIL িব Comments: 22. MS (AS) % Recoveries (65-130%) PASS ✓ FAIL 14 Comments: F608200-MS1, MS2 FAILED. HIGH RECOVERY 23. MSD (ASD) % Recoveries (65-130%) PASS ✓ FAIL 17 Comments: F608200-MSD1, MSD2 FAILED. HIGH RECOVERY 24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630) ✓ YES ☐ NO 다 25. Are all samples within instrument calibration range (or at maximum aliquot size)? ✓ YES □ NO .0 Comments: 26. For instrumental dilutions, is the dilution factor in excel correct? ✓ PASS ☐ NO N/A 7 Is the sample volume, diluents, and final volume of the dilution noted on benchsheet? ✓ PASS ☐ No ☐ N/A \leq 27. Dissolved < Total metals (if applicable) ✓ PASS □ NO ∏ N/A M Comments: 28. Effluent < Influent metals (visually confirm if needed) PASS □ NO ✓ N/A 7 Comments:

	Peer Review Check List	for MHg for CV-GC-AFS (FGS-070)	2013 Rev	4 (08/22)	/2012\	
Analyst:	DON MORAN	Sequence #: 6H08006		+ (00/ ZZ)	2013)	
Reviewer:	0	Dataset ID #: MMHG27001-160805	-1	*		
Date:	8/8/2016	wo #:				
Batch #(s):	F608200	Client(s):				
			Analyst I	Initials:	Reviewer	Initials:
29. Are re-run: Comments:	s noted with reason?		YES	□ NO	☑ N/A	B
30. For failing	QC (CCV, CCB, PB, BS/BSD, CAL):		YES	□ NO	✓ N/A	<u> </u>
Was a bubb	ler and trap test run before the ana	alytical run continued?		<u> </u>	U 11/6	٢
31. Do re-run : Comments:	results compare to initial analysis (<	< 35% RPD)?	YES	□ NO	✓ N/A	ď
32. Are qualifie Comments:	ers consistent with the data review f		✓ YES	□ NO	□ N/A	₽
33. Have non-r Comments:	reportable samples been imported in	nto LIMS and clicked to non-reportable?	✓ YES	□ NO	□ N/A	ď
34. Have re-ex	tracts been created for non-reporta	ble samples?	YES	□ NO	√ N/A	I
35. Narrations	in MMO box in LIMS?		_			L
Comments:						
36. Are there a	ny HIGH QA projects within the dat	a?	YES	☑ NO		
If so, place	dataset to the QA office.			_		
37. Does the da	ata set need scanning?		✓ YES		□ N/A	⊡
Files located	at: \\Cuprum\gen_admin\Quality A	Assurance\Training Master\DOCs			. .,	ш
38. Date of ana	_	15 IDOC/CDOC within last 12 months?	✓ YES	□ NO		[Ŧ
39. Date of ana	lyst's SOP reading: 5/23	/2016 Current SOP revision?	✓ YES	.— □ NO		Ī
40. Date of LO		last 3 months (within 12 months for MDN)?	✓ YES	□ NO	□ N/A	<u> </u>
41. Date of LOC		last 3 months (within 12 months for MDN)?	✓ YES	□ NO	□ N/A	<u> </u>
12. If MDN sam	ples, date of last MDL study:	, , , , , , , , , , , , , , , , , , ,		_		
13. MDL study v	within last 12 months?		YES	□ NO	□ N/A	
Data can not b	e reported without a current iDO(C/CDOC, LOD or LOQ.				
Additional Comr	ments;		☐ YES	□ NO		-
			□ 153	□··		
0	PLIGINAL DATA SHEET	HAB INCOPPECT VALUED IN	National Fr	tcn	9	
((UPPECT VALUES PASTED	AND RE-IMPORTED INFO ELEM	ENT DW	H 8.9.16	الاستان المرادة	1MN.,



Frontier Global Sciences

Analysis Datasheet for Methyl Mercury in Waters

Date of Analysis: August 11, 2016 Instrument #: Hg2700-1 LIMS Sequence #: 6H11011

Analyst: RN Units ng/L

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	33.10000	% Recovery
SEQ-CAL1	1	0.05 ng/L	36.30 units	726.00	35.26 units	705.20	
SEQ-CAL2	1	0.20 ng/L	121.35 units	606.73	120.31 units		104.5 %Rec
SEQ-CAL3	1	1.00 ng/L	681.23 units	681.23	2 11 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	601.53	89.1 %Rec
SEQ-CAL4	1	2.00 ng/L	1372.63 units		680.19 units	680.19	100.8 %Rec
SEO-CAL5	1	4.00 ng/L		686.31	1371.59 units	685.79	101.6 %Rec
SEQ-CAL6	0	4.00 Hg/L	2812.06 units	703.02	2811.02 units	702.76	104.1 %Rec
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF	Corr. St Dev RF	Corr. RSD CF	Uncorr, Mean RF	Eff Factor
675.10	+/- 42.50	6.3% RSD	680.66	0.8046

anks:					
LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	1.04 units		0.00 ng/L	#VALUE!

	MDN Only
SEQ-CAL1	4
SEQ-CAL2	
SEQ-CAL3	
SEQ-CAL4	
SEQ-CAL5	
SEQ-CAL6	NA
SEQ-CAL7	NA
SEQ-CAL8	NA
SEQ-CAL9	NA
SEQ-ICV/CCV	
Acetate Buffer	
Ethylating Agen	t

Batch ID	n	Mean	Std Dev
1	3	0.010 ng/L	±0.004
2	0	State of the state	-01001
3	O	-	
4	0	D. 200	
5	0		
			0.1.1.75

QUALITY ASSURANCE PEER - REVIEWED INITIALS: JY 8/11/

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		Sample		A Property of				Uncorrected	1	No PB			-		
Instrument		Туре	LabNumber	Dilution	Analyzed	FileID	Run End	Response	Batch ID		RESP	InitialResult	Final Docute	InitialUnits	April 1
Hg2700-1 Hg2700-1	RN	CAL	SEQ-IBL1	1	8/11/16 7:54	14206-1.RAW	7:54	1.04			0.0	0.000			Comments
	RN	CAL	SEQ-CAL1	1	8/11/16 8:05	14207-1.RAW	8:05	36.30			35.3	0.000	0.000	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL2	1	8/11/16 8:15	14208-1.RAW	8:15	121.35			120.3		0.052	nq/L	
Hq2700-1	RN	CAL	SEQ-CAL3	1	8/11/16.8:26	14209-1.RAW	8:26	681.23		-		0.178	0.178	nq/L	
Hq2700-1	RN	CAL	SEQ-CAL4	1	8/11/16 8:36	14210-1.RAW	8:36	1372.63			680.2	1.008	1.008	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL5	1	8/11/16 8:47	14211-1.RAW	8:47	2812.06			1371.6	2.032	2.032	ng/L	
Hg2700-1	RN	CAL	SEQ-ICV1	1	8/11/16 8:57	14212-1.RAW	8:57	364.96			2811.0	4.164	4.164	ng/L	
Hq2700-1	RN	CAL	SEQ-ICB1	1	8/11/16-9:08	14213-1.RAW	9:08	11.81			363.9	0.539	0.539	ng/L	
Hg2700-1	RN	BLK	F608251-BLK1	1.25	8/11/16 9:18	14214-1.RAW	9:18	5.92			10.8	0.016	0.016	ng/L	
Hg2700-1	RN.	BLK	F608251-BLK2	1.25	8/11/16 9:29	14215-1.RAW	9:29	6.07			5.9	0.011	0.014	ng/L	
Hq2700-1	RN	BLK	F608251-BLK3	1.25	8/11/16 9:40	14216-1.RAW	-		1		5.0	0.009	0.012	ng/L	
Hg2700-1	RN	SAM	F608251-BS1	1.25	8/11/16 9:50	14217-1.RAW	9:40	3.34	1		2.3	0.004	0.005	ng/L	
Hg2700-1	RN	SAM	F608251-BSD1	1.25	8/11/16 10:01	14218-1.RAW	9:50	453.32	1		452.3	0.825	1.031	ng/L	
Hg2700-1	RN	SAM	F608251-DUP1	1.25	8/11/16 10:01		10:01	478.36	1		477.3	0.871	1.088	ng/L	
Hq2700-1	RN	SAM	F608251-MS1	1.25	8/11/16 10:11	14219-1.RAW	10:11	230.69	1		229.7	0.415	0.518	ng/L	
Hq2700-1	RN	SAM	F608251-MSD1	1.25	8/11/16 10:22	14220-1.RAW	10:22	725.78	1		724.7	1.326	1.658	ng/L	
Hq2700-1	RN	SAM	F608251-MS2	1.25		14221-1.RAW	10:32	802.01	1		801.0	1.466	1.833	ng/L	
Hg2700-1	RN		F608251-MSD2	1.25	8/11/16 10:43	14222-1.RAW	10:43	415.03	1		414.0	0.754	0.943	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV1		8/11/16 10:53	14223-1.RAW	10:53	561.21	1		560.2	1.023	1.279	ng/L	
Hg2700-1	RN		SEQ-CCB1	1	8/11/16 11:04	14224-1.RAW	11:04	247.59			246.6	0.365	0.365		
Hq2700-1	RN	SAM	1607339-01RE2	1	8/11/16 11:14	14225-1.RAW	11:14	4.69			3.7	0.005	0.005	ng/L	
Hq2700-1	RN	SAM		1.25	8/11/16 11:25	14226-1.RAW	11:25	19.45	1		18.4	0.026	0.003	ng/L	
Hg2700-1	RN		1607339-02RE2	1.25	8/11/16 11:35	14227-1.RAW	11:35	13.27	1		12.2	0.014		ng/L	
Hq2700-1	RN	SAM	1607380-01RE2	1.25	8/11/16 11:46	14228-1.RAW	11:46	30.39	1		29.4	0.046	0.018	ng/L	
		SAM	1607380-03RE2	1.25	8/11/16 11:56	14229-1.RAW	11:56	24.25	1		23.2	0.035	0.057	ng/L	
Hq2700-1	RN	SAM	1607380-05RE2	1.25	8/11/16 12:07	14230-1.RAW	12:07	37.66	1		36.6		0.043	ng/L	
Hg2700-1	RN		1607380-07RE2	1.25	8/11/16 12:17	14231-1.RAW	12:17	54.24	1			0.059	0.074	ng/L	
Hq2700-1	RN		1607380-09RE2	1.25	8/11/16 12:28	14232-1.RAW	12:28	93.26	1		53.2	0.090	0.112	ng/L	
Hg2700-1	RN		1607380-13RE2	1.25	8/11/16 12:38	14233-1.RAW	12:38	198.70	1		92.2	0.162	0.202	ng/L	
Hq2700-1	RN		1607586-01RE2	1.25	8/11/16 12:49	14234-1.RAW	12:49	74.42	1		197.7	0.356	0.445	ng/L	
Hq2700-1	RN		1607586-02RE2	1.25	8/11/16 12:59	14235-1.RAW	12:59	57.61	1		73.4	0.127	0.159	ng/L	
Hq2700-1	RN		SEQ-CCV2	1	8/11/16 13:10	14236-1.RAW	13:10	246.50	1		56.6	0.096	0.120	ng/L	
Hq2700-1	RN		SEQ-CCB2	1	8/11/16 13:20	14237-1.RAW	13:20				245.5	0.364	0.364	ng/L	
Hq2700-1	RN	SAM	1607586-03RE2	1.25	8/11/16 13:31	14238-1.RAW	13:31	1.20			0.2	0.000	0.000	ng/L	
Hq2700-1	RN	SAM	1607586-04RE2	1.25	8/11/16 13:41	14239-1.RAW	13:41	131.90	- 1		130.9	0.233	0.291	ng/L	
Hq2700-1	RN	SAM	1607586-05RE2	1.25	8/11/16 13:52	14240-1.RAW		61.13	1		60.1	0.103	0.128	ng/L	
dq2700-1	RN	SAM .	1607586-06RE2	1.25	8/11/16 14:02		13:52	181.22	1		180.2	0.324	0.404	ng/L	
Hq2700-1			1607586-07RE1	1.25	8/11/16 14:02	14241-1.RAW	14:02	74.79	1		73.7	0.128	0.160	ng/L	
Hq2700-1			1607586-08RE1	1.25		14242-1.RAW	14:13	70.21	1		69.2	0.119	0.149	ng/L	
lq2700-1	-		1607586-09RE1	1.25	8/11/16 14:23	14243-1.RAW	14:23	17.90	1		16.9	0.023	0.029	ng/L	
lq2700-1		-	1607586-11RE1		8/11/16 14:34	14244-1.RAW	14:34	26.23	1		25.2	0.038	0.048	ng/L	
lg2700-1			1607586-13RE1	1.25	8/11/16 14:44	14245-1.RAW	14:44	38.34	1		37.3	0.061	0.076		
lg2700-1			1607586-14	1.25	8/11/16 14:55	14246-1.RAW	14:55	40.38	1		39.3	0.064	0.080	nq/L	
lg2700-1			5EQ-CCV3	1.25	8/11/16 15:05	14247-1.RAW	15:05	10.41	1		9.4	0.009	0.011	ng/L	
lg2700-1				1	8/11/16 15:16	14248-1.RAW	15:16	230.51			229.5	0.340	0.340	ng/L	
142/00-1	ININ	CAL	SEQ-CCB3	1	8/11/16 15:26	14249-1.RAW	15:26	2.89			1.9	0.003	0.003	nq/L	

Failing Data Report - 6H11011

Sample ID	Analysis	Result	MRL		Source Result	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
F608251-DUP1	MHg-CVAFS-W-Dist	0.461	0.050	0.180	0.180	ng/L				87.8	35.00	PASS-OVER	FAIL-DUP	QR-07

Analyst Reviewed By

Date ...

Peer Reviewed By

Date *

ANALYSIS SEQUENCE

6H11011

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6H11011-IBL1	QC	1			Comments
6H11011-CAL1	QC	2	1604163		
6H11011-CAL2	QC	3	1604164		
6H11011-CAL3	QC	4	1604165		
6H11011-CAL4	QC	5	1604166		
6H11011-CAL5	QC	6	1604167		
6H11011-ICV1	QC	7	1603001		
6H11011-ICB1	QC	8			
F608251-BLK1	QC	9			
F608251-BLK2	QC	10			
F608251-BLK3	QC	_ n			
F608251-BS1	QC	12			
F608251-BSD1	QC	13			
F608251-DUP1	QC	14			
F608251-MS1	QC	15			
F608251-MSD1	QC	16			
F608251-MS2	QC	17			
F608251-MSD2	QC	18			
6H11011-CCV1	QC	19	1603001		
6H11011-CCB1	QC	20			
1607339-01RE2	MHg-CVAFS-W-Dist	21			From F608200 by RN on 09-Aug-16
1607339-02RE2	MHg-CVAFS-W-Dist	22			From F608200 by RN on 09-Aug-16
1607380-01RE2	MHg-CVAFS-W-Dist	23			From F608200 by RN on 09-Aug-16
1607380-03RE2	MHg-CVAFS-W-Dist	24			From F608200 by RN on 09-Aug-16
1607380-05RE2	MHg-CVAFS-W-Dist	25			From F608200 by RN on 09-Aug-16
1607380-07RE2	MHg-CVAFS-W-Dist	26			From F608200 by RN on 09-Aug-16
607380-09RE2	MHg-CVAFS-W-Dist	27			From F608200 by RN on 09-Aug-16
607380-13RE2	MHg-CVAFS-W-Dist	28	-		From F608200 by RN on 09-Aug-16
607586-01RE2	MHg-CVAFS-W-Dist	29			From F608200 by RN on 09-Aug-16
607586-02RE2	MHg-CVAFS-W-Dist	30	-		From F608200 by RN on 09-Aug-16
H11011-CCV2	QC	31	1603001		1.000 1 000200 by Kin on by-Aug-16
H11011-CCB2	QC	32			
607586-03RE2	MHg-CVAFS-W-Dist	33			From F608200 by RN on 09-Aug-16
607586-04RE2	MHg-CVAFS-W-Dist	34			From F608200 by RN on 09-Aug-16
607586-05RE2	MHg-CVAFS-W-Dist	35			From F608200 by RN on 09-Aug-16

Due Date: 8/10/2016

ANALYSIS SEQUENCE

6H11011

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/11/2016

					Trialyzed, 6/11/20
Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1607586-06RE2	MHg-CVAFS-W-Dist	36			From F608200 by RN on 09-Aug-16
1607586-07RE1	MHg-CVAFS-W-Dist	37			From F608200 by RN on 09-Aug-16
607586-08RE1	MHg-CVAFS-W-Dist	38			From F608200 by RN on 09-Aug-16
607586-09RE1	MHg-CVAFS-W-Dist	39			From F608200 by RN on 09-Aug-16
607586-11RE1	MHg-CVAFS-W-Dist	40			From F608200 by RN on 09-Aug-16
607586-13RE1	MHg-CVAFS-W-Dist	41			From F608200 by RN on 09-Aug-16
607586-14	MHg-CVAFS-W-Dist	42			
6H11011-CCV3	QC	43	1603001		South and Editoria
6H11011-CCB3	QC	44			
6H11011-CCV3 6H11011-CCB3	QC	43	1603001		Scan all data - Level IV

Due Date: 8/10/2016

F608251

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/9/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608251-BLK1	Blank	45	40					
F608251-BLK2	Blank	45	40					
F608251-BLK3	Blank	45	40					
F608251-BS1	LCS	45	40	1603908	45			
F608251-BSD1	LCS Dup	45	40	1603908	45			
F608251-DUP1	Duplicate [1607380-09RE2]	45	40					
F608251-MS1	Matrix Spike [1607380-13RE2]	45	40	1603908	45			
F608251-MS2	Matrix Spike [1607586-08RE1]	45	40	1603908	45			
F608251-MSD1	Matrix Spike Dup [1607380-13RE2]	45	40	1603908	45			
F608251-MSD2	Matrix Spike Dup [1607586-08RE1]	45	40	1603908	45			

Standard ID(s): 1603908

Description:

MHg New Primary 1.0 ng/mL CAL

Expiration:

19-Oct-16 00:00

Reagent ID(s): 1602604

1603749

1604432

Description: Acetate Buffer

APDC

Ethylating Agent (For Methyl Mercury Analysis)

15-Nov-16 00:00 09-Jan-17 00:00 17-Aug-16 00:00

Expiration:

1604445 0.5% Distillation Dilute (Made Daily) 1604518

10-Aug-16 00:00 2.5% Ascorbic Acid 19-Aug-16 00:00

Date: 8/10/2016

F608251

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Matrix: Water	Prepared using:	Hg Aquatic/S	Solids - EF	FGS-013	Methyl	Hg Di	stillation for Water	Prepared: 8/9/20
Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs,	Raw Data	Sample Comments	Analysis Comments
1607339-01RE2	OL-2431-01	45	40	L POT	74	9	From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
1607339-02RE2	OL-2431-02	45	40	14	11		From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
1607380-01RE2	NMC-5240-00	45	40	4-0	-	+0	From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
607380-03RE2	NMC-5240-01	45	40	QC	-	121	MS/MSD From F608200 by RN on 09-	From F608200 by RN on 09-Aug-16
607380-05RE2	NMC-5240-02	45	40	-		-	From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
607380-07RE2	NMC-5240-03	45	40	9	1.5	-	From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
607380-09RE2	NMC-5240-04	45	40	-	-	-	From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
507380-13RE2	NMC-5240-06	45	40	19	-	-	From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
607586-01RE2	1523 OV-02_071816_SW_10	45	40	+	2	-	From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
607586-02RE2	1523 OV-02_071816_SW_10 Dissolved	45	40	1	102.0		From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
607586-03RE2	1524 WQ1b-c_071816_SW_10	45	40	-	19-10	1	From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
607586-04RE2	1524 WQ1b-c_071816_SW_10 Dissolved	45	40	-	(-)	*	From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
607586-05RE2	1525 WQ2-c_071816_SW_10	45	40	-	-		From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
07586-06RE2	1525 WQ2-c_071816_SW_10 Dissolved	45	40	-			From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
07586-07RE1	1526 WQ3-L_071816_SW_10	45	40			₹	From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
07586-08RE1	1526 WQ3-L_071816_SW_10 Dissolved	45	40	1.	-	191	From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
07586-09RE1	1527 ES-15_071816_SW_10	45	40	-	-	-	From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16
586-11RE1	1528 WQ-ECH_071816_SW_10	45	40	QC	-	-	MS/MSD From F608200 by RN on 09-	From F608200 by RN on 09-Aug-16

From F608200 by RN on 09-Aug-16

Date: 8/10/2016

1529 WQ-ECH_071816_SW_10_DUP

45

40

586-13RE1

From F608200 by RN on 09-Aug-16

F608251

Eurofins Frontier Global Sciences, Inc.

Matrix: Water	Prepared using: Hg	Prepared: 8/9/2016						
1607586-14	1529 WQ-ECH_071816_SW_10_DUP Dissolved	45	40	-	7097	1.5	Scan all data - Level IV	

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Date: 8/10/2016

W 8/11/16 2700)

6 H 11 0 11

F608251

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/9/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608251-BLK1	Blank	45	40			1		1.25 %
F608251-BLK2	Blank	45	40	()				1.25 x
F608251-BLK3	Blank	45	40					1,254
F608251-BS1	LCS	45	40	1603908	45			1.25*
F608251-BSD1	LCS Dup	45	40	1603908	45	1- 1		1.25×
F608251-DUP1	Duplicate [1607380-09RE2]	45	40					1,25x
F608251-MS1	Matrix Spike [1607380-13RE2]	45	40	1603908	45			1.25 x
F608251-MS2	Matrix Spike [1607586-08RE1]	45	40	1603908	45			1,250
F608251-MSD1	Matrix Spike Dup [1607380-13RE2]	45	40	1603908	45			1.25x
F608251-MSD2	Matrix Spike Dup [1607586-08RE1]	45	40	1603908	45			1.25 %

Standard ID(s): 1603908 Description:

MHg New Primary 1.0 ng/mL CAL

Expiration:

19-Oct-16 00:00

Reagent ID(s): 1604432 Description:

APDC

1604445

0.5% Distillation Dilute (Made Daily)

Expiration:

17-Aug-16 00:00

10-Aug-16 00:00

F608251

PW 8/11/16

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/9/2016

Analysis Comments	Sample Comments	Raw Data	Sample Specs.	QC Sample	Final (mL)	Initial (mL)	Sample ID	Lab Number
From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16	7.5	46	13.	40	45	OL-2431-01	607339-01RE2
From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16		*	1.4	40	45	OL-2431-02	607339-02RE2
From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16	3	6.	-	40	45	NMC-5240-00	607380-01RE2
From F608200 by RN on 09-Aug-16	MS/MSD From F608200 by RN on 09-	14		QC	40	45	NMC-5240-01	607380-03RE2
From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16	4.	+.	15	40	45	NMC-5240-02	607380-05RE2
From F608200 by RN on 09-Aug-16 / .2	From F608200 by RN on 09-Aug-16	97	13	5	40	45	NMC-5240-03	607380-07RE2
From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16	*	14	1.3	40	45	NMC-5240-04	607380-09RE2
From F608200 by RN on 09-Aug-16 / 2	From F608200 by RN on 09-Aug-16	181	1	-	40	45	NMC-5240-06	607380-13RE2
From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16	3		7 E	40	45	1523 OV-02_071816_SW_10	607586-01RE2
From F608200 by RN on 09-Aug-16 / 25	From F608200 by RN on 09-Aug-16	9			40	45	1523 OV-02_071816_SW_10 Dissolved	607586-02RE2
From F608200 by RN on 09-Aug-16 / 2	From F608200 by RN on 09-Aug-16		-	7-1	40	45	1524 WQ1b-c_071816_SW_10	607586-03RE2
From F608200 by PN on 00 Aug 16	From F608200 by RN on 09-Aug-16		-	157	40	45	1524 WQ1b-c_071816_SW_10 Dissolved	607586-04RE2
From F608200 by RN on 09-Aug-16 / 2	From F608200 by RN on 09-Aug-16		+	141	40	45	1525 WQ2-c_071816_SW_10	607586-05RE2
From F608200 by RN on 09-Aug-16 /. 2	From F608200 by RN on 09-Aug-16	-	1.2	1.67	40	45	1525 WQ2-c_071816_SW_10 Dissolved	607586-06RE2
From F608200 by PN on 00 Aug 16	From F608200 by RN on 09-Aug-16		-	-	40	45	1526 WQ3-L_071816_SW_10	607586-07RE1
From F608200 by RN on 09-Aug-16	From F608200 by RN on 09-Aug-16	-		in the	40	45	1526 WQ3-L_071816_SW_10 Dissolved	607586-08RE1
From F608200 by RN on 09-Aug-16 / . Z	From F608200 by RN on 09-Aug-16	-	16.		40	45	1527 ES-15_071816_SW_10	607586-09RE1
From F608200 by RN on 09-Aug-16 / , Z	MS/MSD From F608200 by RN on 09-			QC	40	45	1528 WQ-ECH_071816_SW_10	7586-11RE1
From F608200 by RN on 09-Aug-16 / 2	From F608200 by RN on 09-Aug-16	4		-1-	40	45	1529 WQ-ECH_071816_SW_10_DUP	7586-13RE1

12 8/11/16

PREPARATION BENCH SHEET

F608251

Eurofins Frontier Global Sciences, Inc.

Matrix: Water Prepared using: Hg Aquation

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/9/2016

120720011	1620 WO ECH 021017 CW 10 DUDD' 1 1	1 15	10		_			
1607586-14	1529 WQ-ECH_071816_SW_10_DUP Dissolved	45	40	**	· ·	25.0	Scan all data - Level IV	1,25a

Methyl Mercury Distillations (EPA 1630)

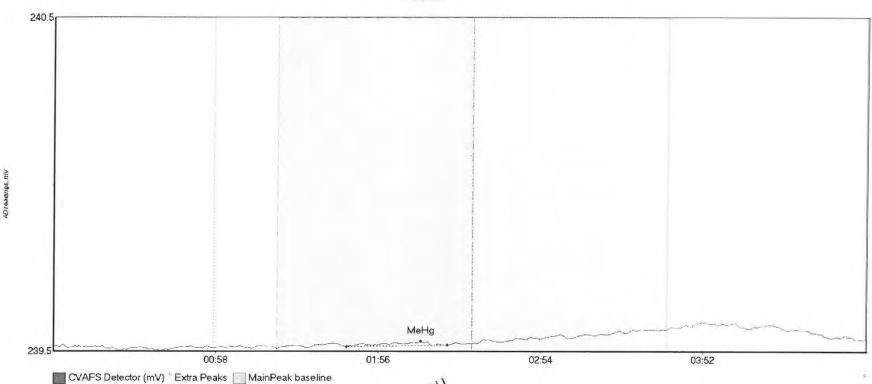
Name: AMB Date: #68/9/16 Batch #: F608251 Sample Matrix: Water Wo#: 1607339, 1607380, 1607586

The pH of the preserved sample must be documented before an aliquot is removed for preparation.

Digest #	Sample ID Number	Preserved pH	Sample Size (mL)	Final pH (≥3)	
BLKI	F608251-BLKI	1.0	45	3.0	200000
SLK2	F608251-BLKZ	1.0	45	3.0	Spike ID: 1603908
3LK3	F608257-BLK3	1.0	45	30	Spike Amount: 45 µL
BSI	F608257-BS1	1.0	45	3.0	Spike Witness: W 8/18/9
BSDI	F608251-BSD1	1.0	45	3.0	Balance #: 2 1 6/9
DUPI	F608251-DUPI	1-0	45	310	Calibrated? Yes No
MSI	F608257-MSI	1.0	45	3.0	
USD1	F608251-MSDI	1.0	45	3.0	Pipette #: <u>N27707</u>
MS2	F608251-MS2	1.0	45	4.0	Cal. Date: 8-9-16
MSD2	F608251-MSD2	1.0	45	4-0	Pipette #: N/A
1	1607339-01RE2R	1.0	45	4.0	Cal. Date: N/A
2	1607339-02RE2B	1.0	45	40	111
3	1607380-018F2B	1.0	45	4.0	Pipette #: N/A
4	1607380-03RF2B	1.0	45	3-0	Cal. Date: N/A
5	1607380-DSREZE	1.0	45	4.0	APDC ID: 1604432
6.	1607380-07RI-2B	1-0	45	4.0	HCI ID: 1604330 AM
7	1607380-09RFZB	1.0	45	3.0	1604445
8	1607380-13RF2B	1.0	45	4-0	Temperature: No set range
9	1607586-01RE2B	1-0	45		the temp. may be changed keep flow rate of ≥10 mL p
10	1607586-02RF2B	1.0	45	4.0	hour. Temperature is record
11	1607586-03RF2B	1-0	45	3.0	for informational purposes only
12	1607586-04REZB	1-0	45		Unit 1: 121.1
13	1607586-05RF2B	1.0	45	3.0	Unit 2: 122.0
14	1607586-06REZBS	CFW :	45		
10	607586-07RE281		AC		Unit 3: 120.7
4 6	1607586-08REIB	1.0	AC		Unit 4: 121.0
4	1607586-09 REIB	1.0	45	3.0	Unit 5: 122.0
10	1607586-11 RE 1B	1.0	45	3.0	Unit 6: 122.0
	607586-13RE IB	1.0	45	3.0	
	1607586-14RSB	1.0	15	The second secon	Comments:
	,300	7.0	TJ	-	DUPI SOURCE:
		. 1/2			1607380-098
		3-9-16			MSI/MSDI SOURCE:
	AMB				1607380-HB 13B
					MSI/MSDI SOURCE: 1607380-HB 13B AMB 8-9-16 MS2/MSDZ SOURCE:
					1607586-08B
					Sample 1607586-04REST

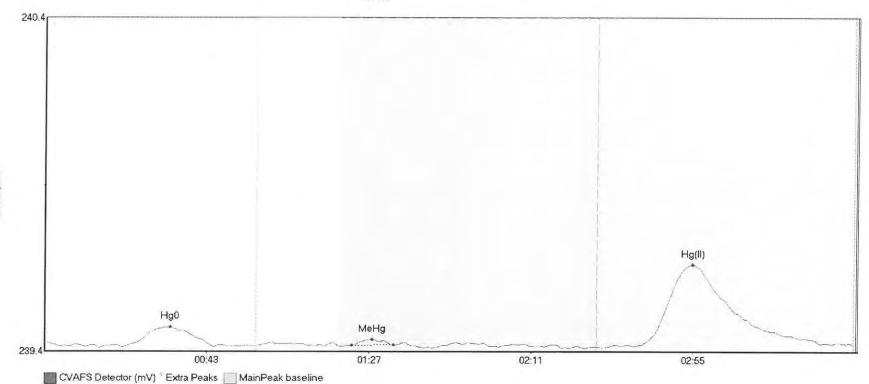
Verified Dyen Actilled The must have had a leak - o Page 291 of 46





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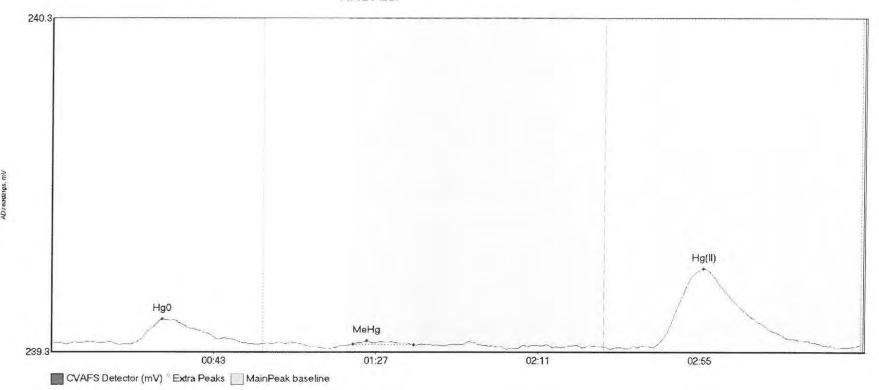


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Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
ws Hg0	8.109	21.3	45.9	239.43	239.43	34.2	0.059	OK	239.4442	0.00	0.00		200
ws MeHg	1.220	83.3	94.8	239.44	239.44	88.9	0.018	OK	239.4442	0.00	0.00		016
ws Hg(II)	47.120	160.5	219.8	239.43	239.44	175.9	0.245	CT	239.4442	0.00	0.00		

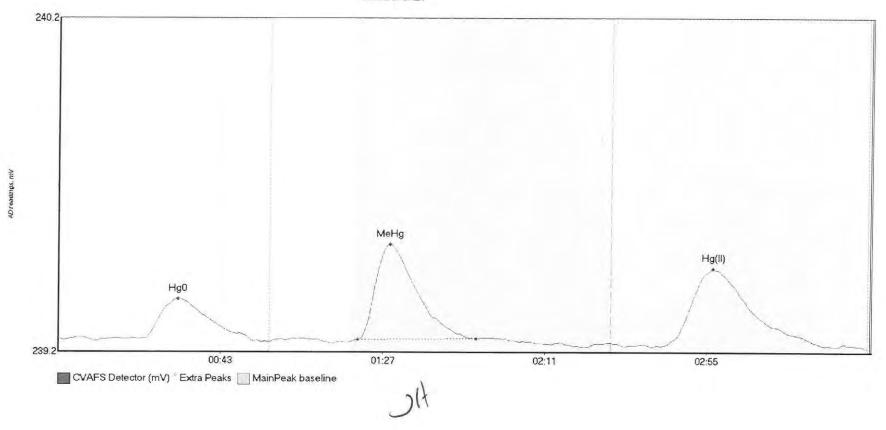
#3: SEQ-IBL1



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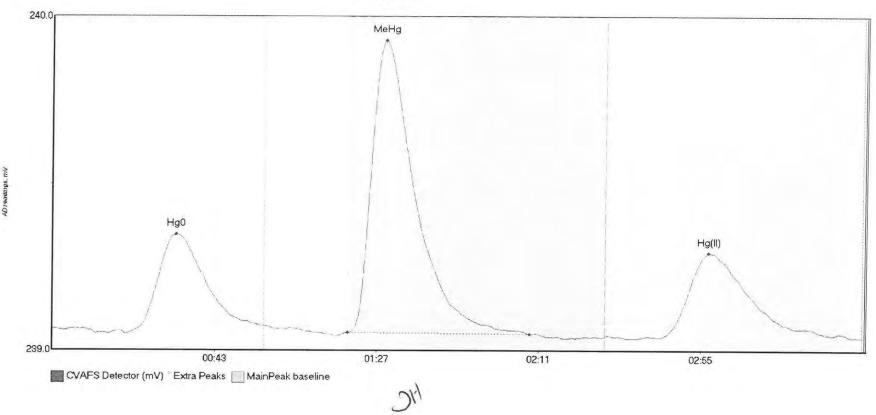
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
SEQ-IBL1 Hg0	10.683	21.5	51.8	239.33	239.34	30.2	0.075	OK	239.3374	0.00	-0.01		21.6
SEQ-IBL1 MeHg	1.040	81.9	98.3	239.33	239.33	85.6	0.011	OK	239.3374	0.00	-0.01		316
SEQ-IBL1 Hg(II)	43.855	163.3	210.5	239.33	239.33	177.1	0.236	OK	239.3374	0.00	-0.01		

#4: SEQ-CAL1



Name 7	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
SEQ-CAL1 Hg0 1	17.778	23.4	52.9	239.22	239.21	32.4	0.119	OK	239.2142	0.00	-0.03	Conduction	
SEQ-CAL1 MeHg	36.300	81.1	113.4	239.21	239.21	89.9	0.287	OK	239.2142	0.00	-0.03		016
SEQ-CAL1 Hg(II) 3	39.592	164.8	205.6	239.20	239.20	177.7	0.229	OK	239.2142	0.00	-0.03		



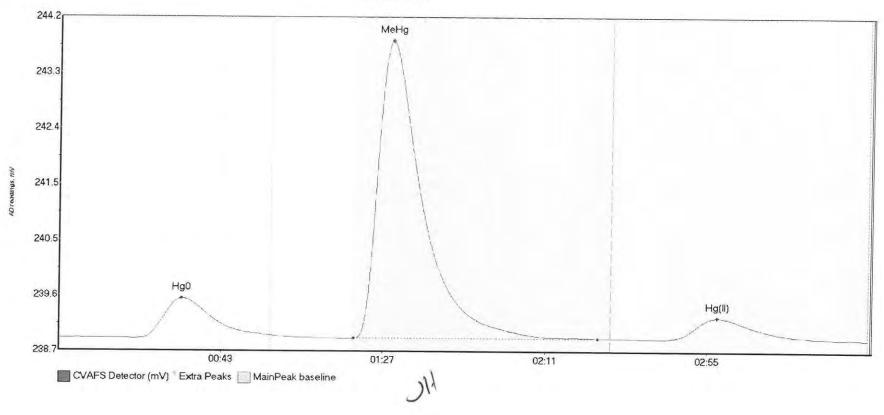


Name		Area	Start Time	EndTime	StartValue	EndValue
SEQ-CAL2	Hg0	42.291	19.9	57.5	239.07	239.09
SEQ-CAL2	MeHg	121.346	80.2	129.6	239.07	239.07
SEQ-CAL2	Hg(II)	46.221	164.7	209.9	239.06	239.07

Peak Max	PeakHeight	Flac
33.5	0.305	CT
90.2	0.898	OK
178.1	0.261	OK

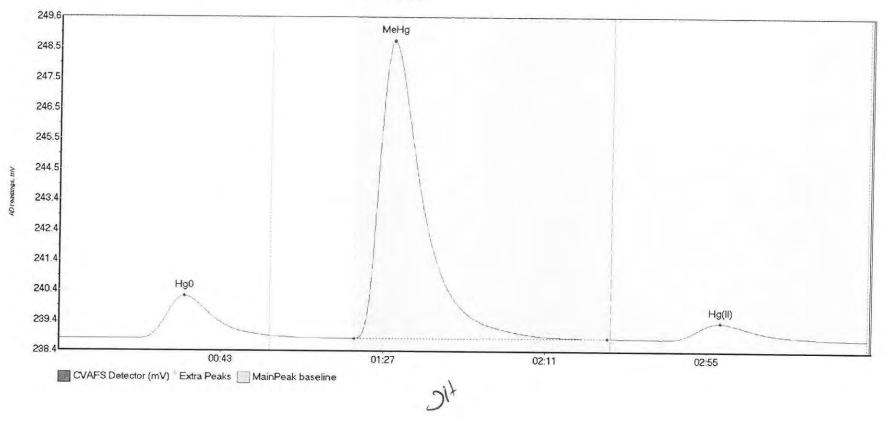
-0.03





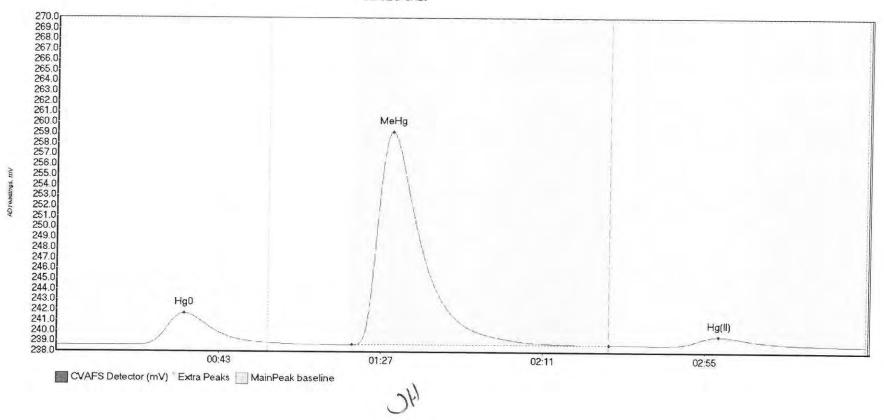
Name Area SEQ-CAL3 Hg0 92.0 SEQ-CAL3 MeHg 681. SEQ-CAL3 Hg(II) 60.9	090 21.2 .234 80.1	ime EndTime 57.5 146.5 206.9	StartValue 238.91 238.91 238.92	EndValue 238.96 238.92 238.93	Peak Max 33.5 90.3 178.7	PeakHeight 0.665 4.928 0.358	Flags CT OK OK	Baseline 238.9127 238.9127 238.9127	BlDev 0.00 0.00 0.00	BlShift -0.01 -0.01 -0.01	Comment	016
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Name SEQ-CAL4 Hg0 SEQ-CAL4 MeHg SEQ-CAL4 Hg(II		Start Time 18.4 80.1 165.2	EndTime 57.5 149.1 209.5	StartValue 238.76 238.78 238.77	EndValue 238.86 238.80 238.79	Peak Max 34.1 90.5 179.8	PeakHeight 1.434 9.974 0.556	Flags CT OK OK	Baseline 238.7621 238.7621 238.7621	BlDev 0.00 0.00 0.00	BlShift 0.00 0.00 0.00	Comment	016
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#8: SEQ-CAL5



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	П	Name	
	a	SEQ-CAL5	
	ge	SEQ-CAL5	
	2	SEQ-CAL5	
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	ω		

Name		Area	Start	Ti
SEQ-CAL5	Hg0	403.526	20.3	
SEQ-CAL5	МеНд	2812.064	80.1	
SEO-CALS	Ha(TT)	155 513	166.0	

'ime EndTime 57.5 150.0 215.2

StartValue EndValue 238.62 238.85 238.66 238.70 238.68 238.67

Peak Max 34.5 90.9 179.9

PeakHeight Flags 3.056 CT CT 20.419 0.866 OK

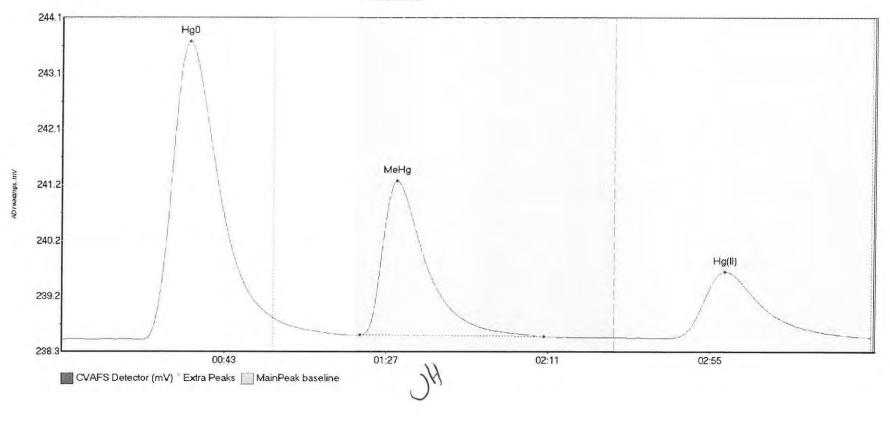
Baseline BlDev 238.6297 0.00 238.6297 0.00 238.6297 0.00

BlShift 0.03 0.03 0.03

Comment

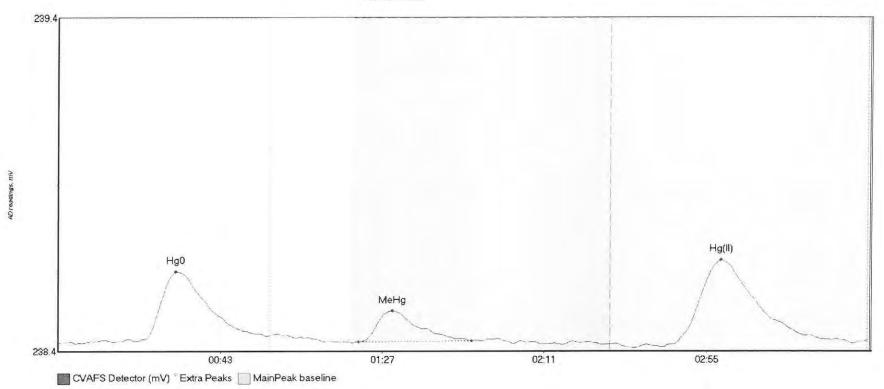
016

#9: SEQ-ICV1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
SEQ-ICV1 Hg0	696.543	21.2	57.5	238.49	238.87	34.5	5.166	CT	238.4910	0.00	0.04		22.0
SEQ-ICV1 MeHg	364.962	81.0	131.0	238.57	238.54	90.9	2.680	OK	238.4910	0.00	0.04		016
SEQ-ICV1 Hg(II)	211.196	164.8	219.8	238.52	238.53	180.1	1.156	CT	238.4910	0.00	0.04		

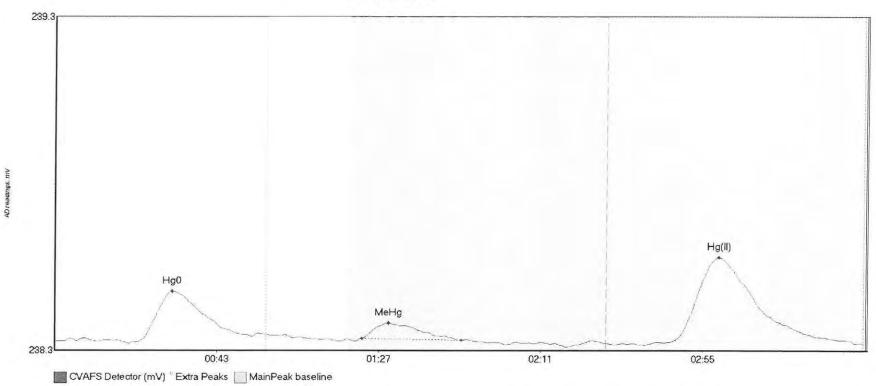
#10: SEQ-ICB1





Name	Area	Start Time	e EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
SEQ-ICB1 Hg0	28.287	21.2	56.5	238.40	238.42	31.9	0.208	OK	238.3957	0.00	0.01		016
SEQ-ICB1 MeHq	11.811	81.6	112.1	238.40	238.40	90.8	0.094	OK	238.3957	0.00	0.01		316
SEQ-ICB1 Hg(II)	44.908	166.9	216.0	238.39	238.39	179.9	0.253	OK	238.3957	0.00	0.01		

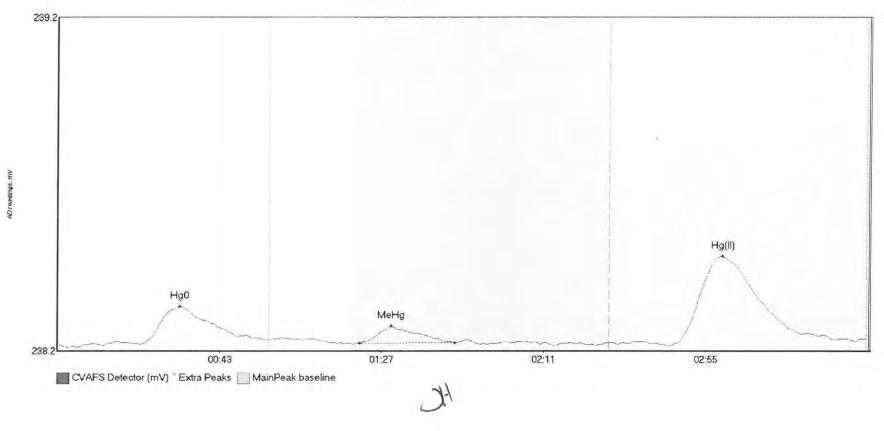
#11: F608251-BLK1





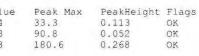
Name	Area	Start T	ime EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F608251-E	3LK1 Hg 20.173	22.5	53.7	238.30	238.32	32.0	0.154	OK	238.3038	0.00	-0.01		22.5
F608251-E	BLK1 Me 6.921	83.6	110.4	238.31	238.31	90.7	0.048	OK	238.3038	0.00	-0.01		016
F608251-E	3LK1 Hg 46.730	166.7	218.0	238.30	238.30	180.3	0.256	OK	238.3038	0.00	-0.01		

#12: F608251-BLK2



Start	Time	EndTime
22.6		56.9
82.1		107.9
166.4		216.9

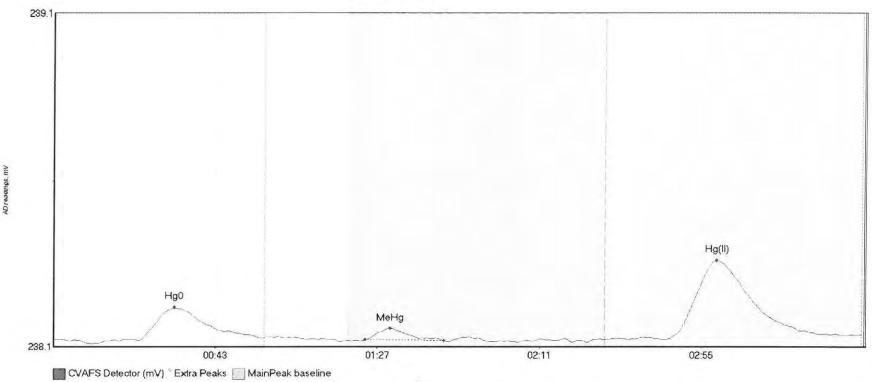
StartValue	EndVal
238.22	238.24
238.23	238.23
238.22	238.23



B	as	e	1	i	n	e
2	38		2	2	1	9
2	38		2	2	1	9
2	38		2	2	1	9

line	BlDe
2219	0.00
2219	0.00
2219	0.00

#13: F608251-BLK3



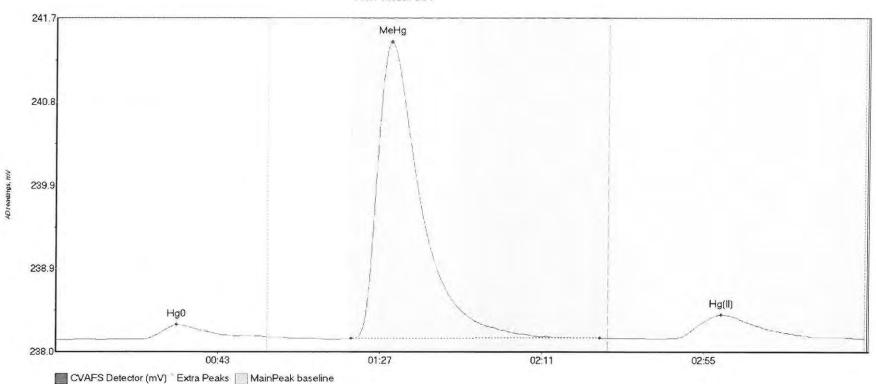
21/

Ivanie	
F608251-BLK3	H
F608251-BLK3	Me
F608251-BLK3	H

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Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F608251-BLK3 Hg	14.360	23.4	56.5	238.17	238.18	33.0	0.098	OK	238.1717	0.00	0.01		016
F608251-BLK3 Me	3.345	84.7	106.1	238.17	238.17	91.6	0.034	OK	238.1717	0.00	0.01		110
F608251-BLK3 Hg	39.813	166.9	218.6	238.17	238.18	180.2	0.236	OK	238.1717	0.00	0.01		

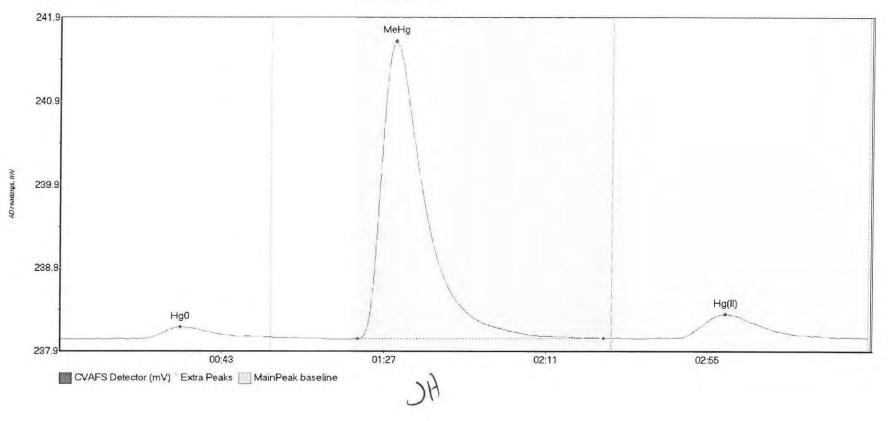
#14: F608251-BS1



FIC

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F608251-BS1 F	Ig0 20.627	21.0	57.5	238.12	238.15	32.8	0.166	CT	238.1152	0.00	0.02		215
F608251-BS1 N	MeH 453.320	80.2	147.7	238.13	238.14	91.0	3.328	OK	238.1152	0.00	0.02		016
F608251-BS1 F	10 (47 986	167 5	215 8	238 13	238 14	180 7	0 265	OK	238 1152	0 00	0.03		

#15: F608251-BSD1

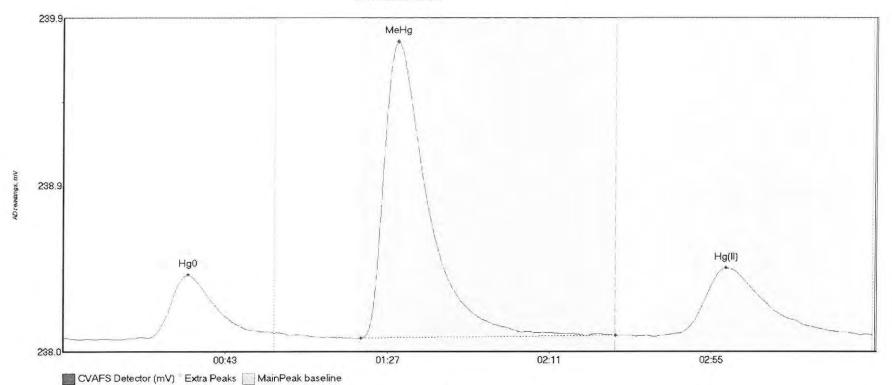


F60	82	51-	-BS	D.
F60	82	51-	-BS	D:
F60	82	51-	-BS	D.

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	IVAINE		nica	ocare rine	Dildiine	SCATCAGINE	DIIGNATUE	rear Hax	reaknerght	riags	
l	F608251-BSD1	Hg	18.983	18.3	57.5	238.08	238.11	32.8	0.141	CT	
l	F608251-BSD1	Me	478.360	80.9	147.7	238.09	238.09	91.0	3.500	OK	
ı	F608251-BSD1	Hq	48.965	168.5	219.1	238.10	238.10	180.9	0.277	OK	

#16: F608251-DUP1



Name		Ar
F608251-DUP1	Hg	45
F608251-DUP1	Ме	23
F608251-DUP1	Hg	70
	- 3	

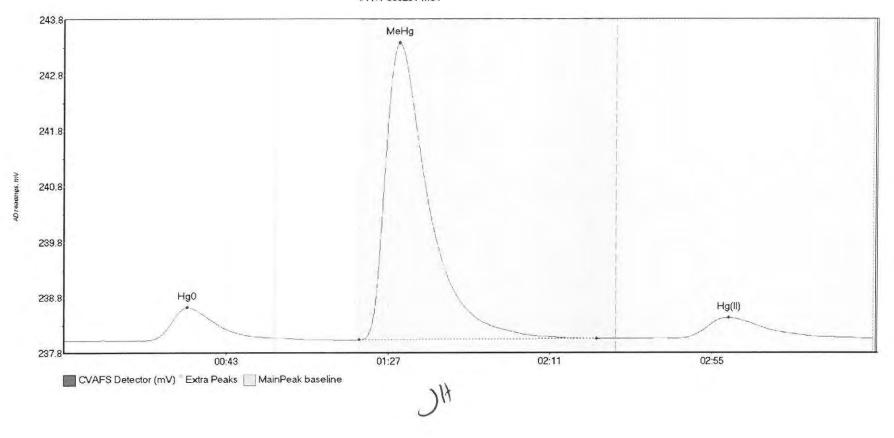
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	Area	Start
J	45.441	23.3
5	230.694	80.7
3	70.750	163.1

PeakHeight	Flags
0.356	OK
1.672	CT
0.380	OK

	BlDev	
	0.00	
,	0.00	
	0.00	

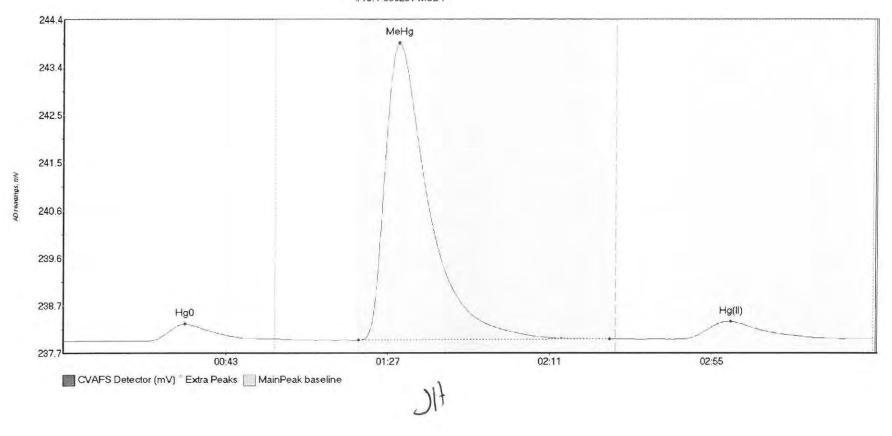
#17: F608251-MS1



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Name Ar	ea Start	Time EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F608251-MS1 Hg0 75	.842 21.7	57.5	238.02	238.07	33.5	0.592	CT	238.0216	0.00	0.04		216
F608251-MS1 MeH 72	5.779 80.1	144.7	238.04	238.05	90.9	5.303	OK	238.0216	0.00	0.04		310
F608251-MS1 Hg(69	.535 166.1	217.0	238.05	238.06	180.6	0.375	OK	238.0216	0.00	0.04		

#18: F608251-MSD1

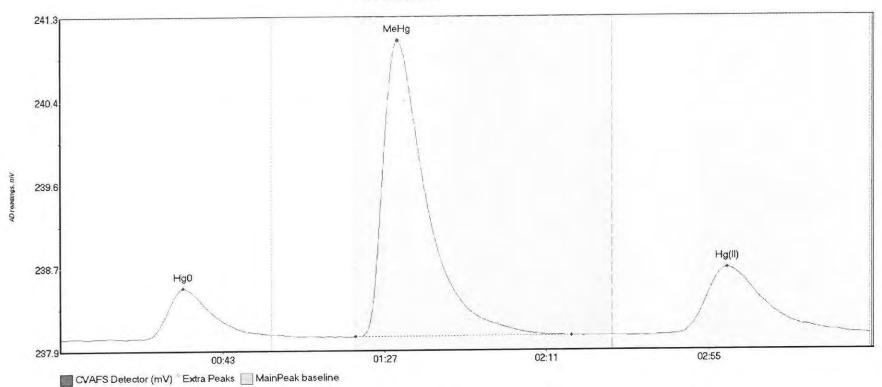


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Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F608251-MSD1 Hg	41.825	22.3	56.0	237.99	238.03	32.8	0.336	OK	237.9953	0.00	0.05		216
F608251-MSD1 Me	802.010	80.1	148.3	238.01	238.03	90.9	5.897	OK	237.9953	0.00	0.05		210
F608251-MSD1 Ha	58 448	168 4	211 5	238 03	238.04	181.3	0.344	OK	237.9953	0.00	0.05		

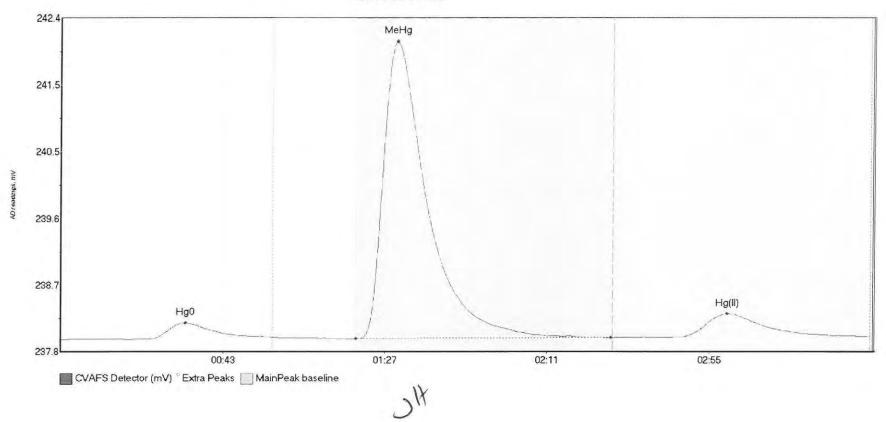
#19: F608251-MS2





F608251-MS2 Hg0 F608251-MS2 MeH	415.027	Start Time 17.5 80.1	56.9 138.9	StartValue 237.98 237.99	238.02	33.3 91.5	0.522 3.045	Flags OK OK CT	Baseline 237.9742 237.9742 237.9742	0.00	0.04 0.04 0.04	Comment	016
F608251-MS2 Hg(161.3	219.8	238.00	238.01	181.1	0.691	CT	237.9742	0.00	0.04		

#20: F608251-MSD2



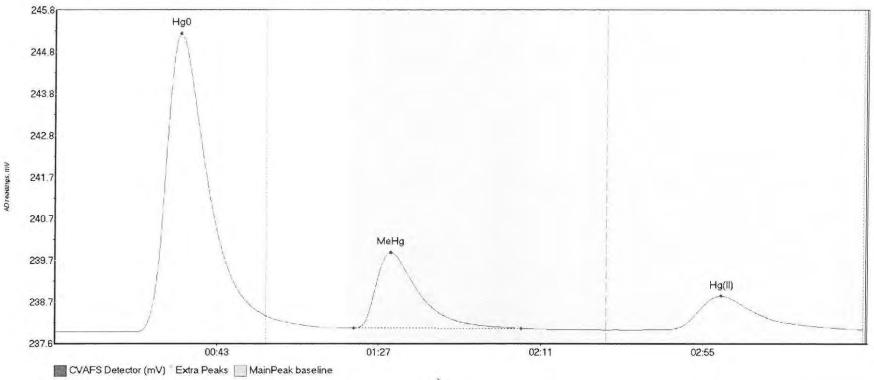
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	F
	F

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Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F608251-MSD2 Hg	28.922	18.0	57.5	237.96	237.98	33.8	0.224	CT	237.9518	0.00	0.04		216
F608251-MSD2 Me	561.210	80.1	149.4	237.96	237.98	91.3	4.081	OK	237.9518	0.00	0.04		110
DECOROSI - MEDO HA	59 771	165 /	210 0	237 00	237 00	180 0	0 325	CO	237 9510	0 00	0 01		

016

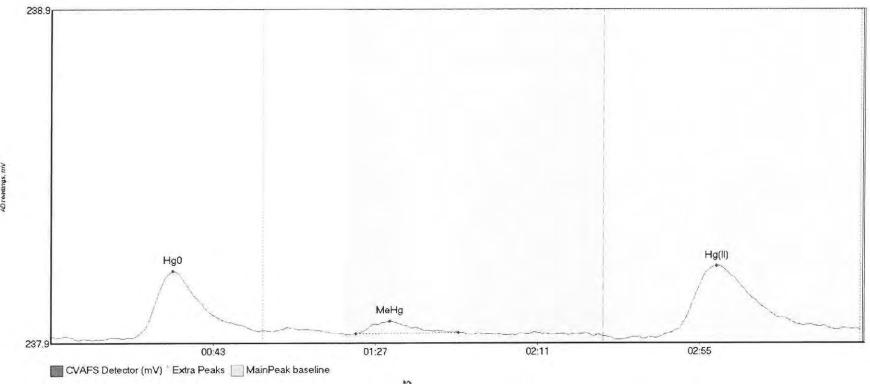
#21: SEQ-CCV1



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Name Ar	rea	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV1 Hg0 89	95.402	21.7	57.5	237.93	238.32	34.2	7.327	CT	237.9380	0.00	0.05	
SEQ-CCV1 MeHg 24	47.592	81.3	126.8	238.03	238.01	91.3	1.861	OK	237.9380	0.00	0.05	
SEQ-CCV1 Hg(II) 15	52.687	165.7	219.8	237.99	237.99	181.1	0.832	CT	237.9380	0.00	0.05	

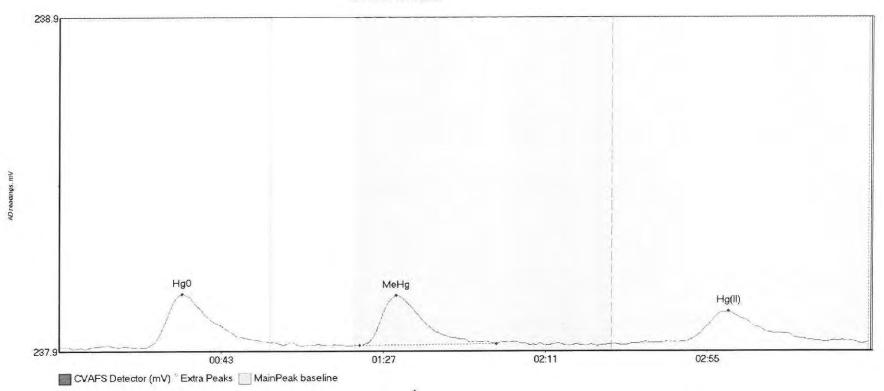
#22: SEQ-CCB1





Name	Area	Start Tim	e EndTime	StartValue	EndValue	Peak Max	PeakHeigh	t Flags	Baseline	BlDev	BlShift	Comment	
SEO-CCB1 Hg0	26.165	22.2	56.0	237.91	237.93	33.1	0.200	OK	237.9155	0.00	0.02		016
SEO-CCB1 MeHa		82.7	110.6	237.92	237.93	92.0	0.038	OK	237.9155	0.00	0.02		310
SEQ-CCB1 Hg(II) 38.717	163.9	213.8	237.91	237.94	180.6	0.217	OK	237.9155	0.00	0.02		

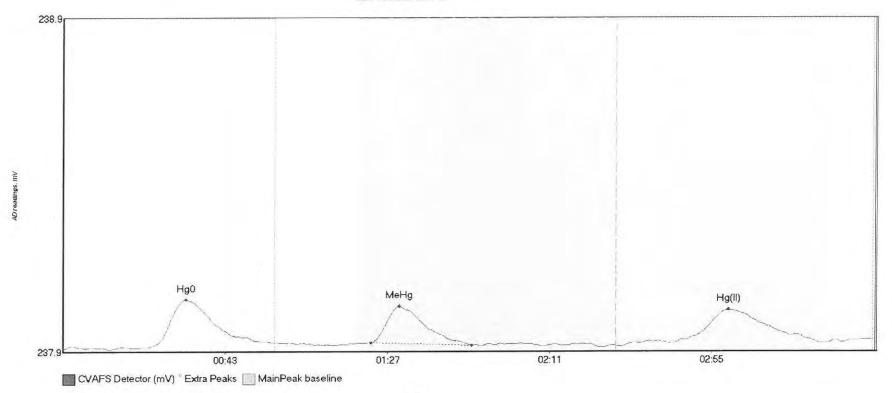
#23: 1607339-01RE2



Name		Area
1607339-01RE2	Н	20.924
1607339-01RE2	M	19.445
1607339-01RE2	H	16.319

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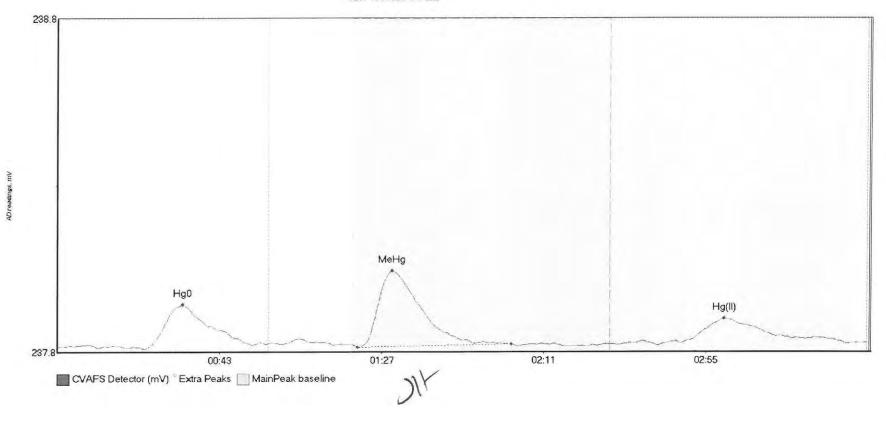
#24: 1607339-02RE2





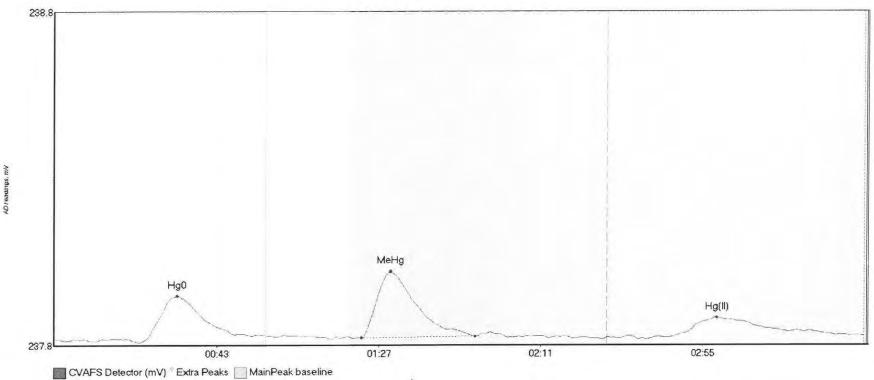
Name	Area	Start Time	EndTime	StartValue	Endvalue	Peak Max	Peakheight	Flags	Baseline	BineA	BISHILL	Comment	
1607339-02RE2 H	18.400	22.3	57.0	237.88	237.89	33.4	0.145	OK	237.8740	0.00	0.03		016
1607339-02RE2 M		83.5	110.9	237.89	237.88	91.1	0.109	OK	237.8740	0.00	0.03		210
1607339-02RE2 H	20.864	151.5	207.0	237.88	237.89	180.6	0.109	OK	237.8740	0.00	0.03		

#25: 1607380-01RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BIShift	Comment	
1607380-01RE2 H	17.021	23.7	53.1	237.86	237.87	34.0	0.131	OK	237.8622	0.00	0.01		016
1607380-01RE2 M	30.393	81.5	123.3	237.86	237.87	90.8	0.231	OK	237.8622	0.00	0.01		110
1607380-01RE2 H	14 362	169.3	214.2	237.87	237.87	181.0	0.073	OK	237.8622	0.00	0.01		

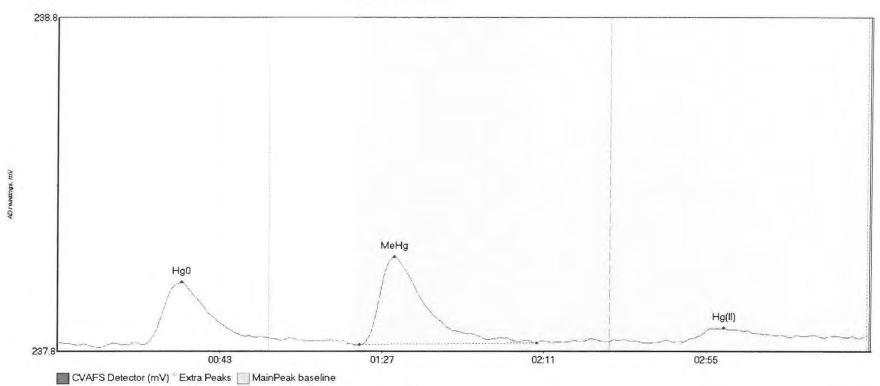
#26: 1607380-03RE2



NI

Name 1607380-03RE2 H	Area 16.793	Start Time 22.9	EndTime 53.3	StartValue 237.84	EndValue 237.86	Peak Max 33.3	PeakHeight 0.140	Flags OK	Baseline 237.8447		BlShift 0.01	Comment	016
1607380-03RE2 M	24.253	83.3	114.1	237.85	237.85	91.1	0.199	OK	237.8447	0.00	0.01		710
1607380-03RE2 H	12.451	166.8	219.3	237.85	237.86	179.9	0.059	OK	237.8447	0.00	0.01		

#27: 1607380-05RE2



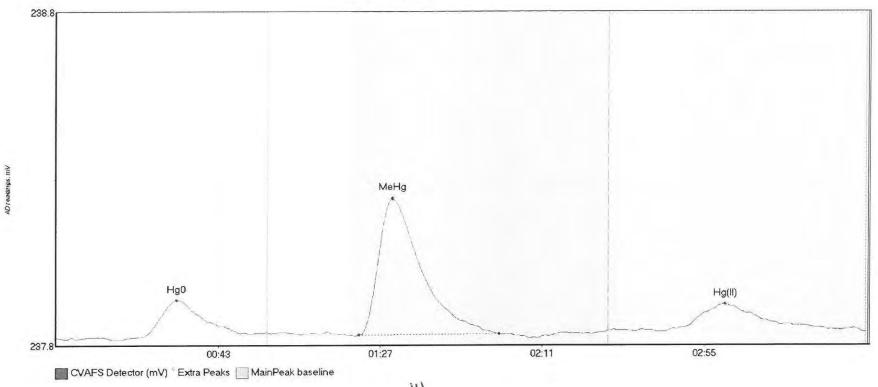
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2.4	u	210	~	
1	6	0	7	3
1	6	0	7	3
1	6	0	7	3

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Name Area	Start Tim	ne EndTime	StartValu	e EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607380-05RE2 H 23.713	1 23.4	57.5	237.82	237.84	33.6	0.187	CT	237.8269	0.00	0.02		216
1607380-05RE2 M 37.65	7 82.0	130.1	237.82	237.83	91.3	0.265	OK	237.8269	0.00	0.02		116
1607380-05RE2 H 8 093	169 8	217 6	237 83	237 84	180 9	0.042	OK	237 8269	0.00	0.02		

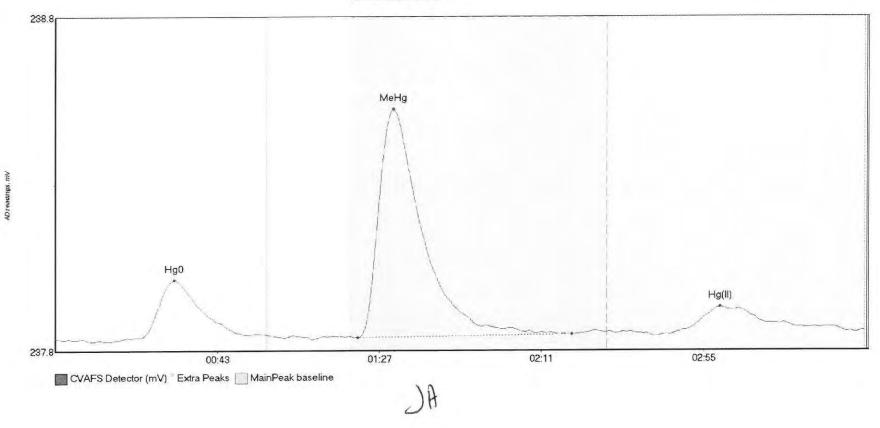
#28: 1607380-07RE2



11

Name Ar	ea St	rt Time	e EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607380-07RE2 H 13	.344 23	5	52.5	237.81	237.82	32.7	0.111	OK	237.8051	0.00	0.02		016
1607380-07RE2 M 54		3	120.3	237.81	237.82	91.3	0.409	OK	237.8051	0.00	0.02		210
1607380-07RE2 H 12	.766 16	. 6	209.9	237.83	237.83	181.7	0.075	OK	237.8051	0.00	0.02		

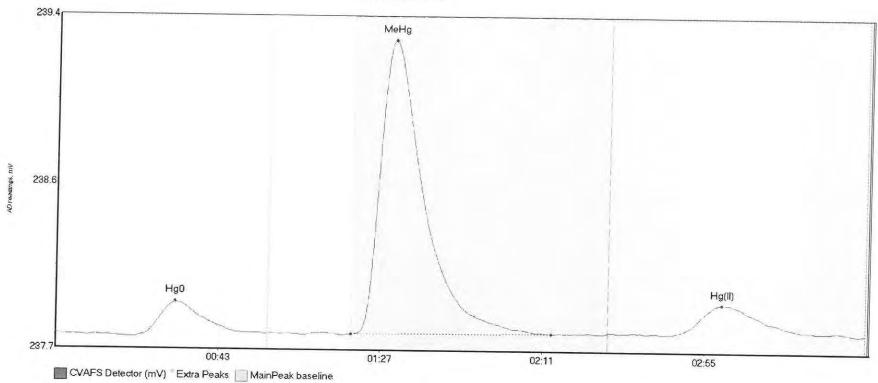
#29: 1607380-09RE2



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Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607380-09RE2 H	20.939	23.3	52.1	237.80	237.81	32.3	0.174	OK	237.7971	0.00	0.02		016
1607380-09RE2 M		82.2	140.4	237.80	237.81	91.7	0.685	OK	237.7971	0.00	0.02		210
1607380-09RE2 H			214.8	237.82	237.82	180.5	0.072	OK	237.7971	0.00	0.02		

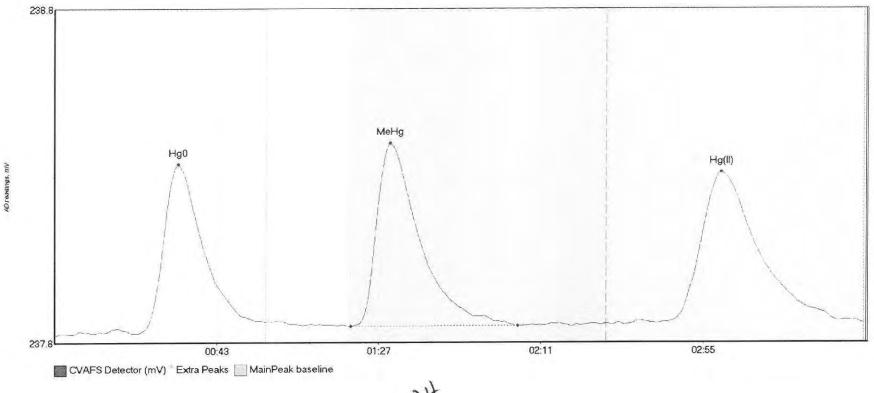
#30: 1607380-13RE2



)H

Name Area 1607380-13RE2 H 22.044 1607380-13RE2 M 198.69 1607380-13RE2 H 25.798	21.1	ime EndTime 56.2 134.5 206.4	StartValue 237.78 237.80 237.81	EndValue 237.80 237.80 237.82	Peak Max 32.3 91.4 180.8	PeakHeight 0.174 1.468 0.151	Flags OK OK OK	Baseline 237.7935 237.7935 237.7935	B1Dev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	016
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#31: 1607586-01RE2

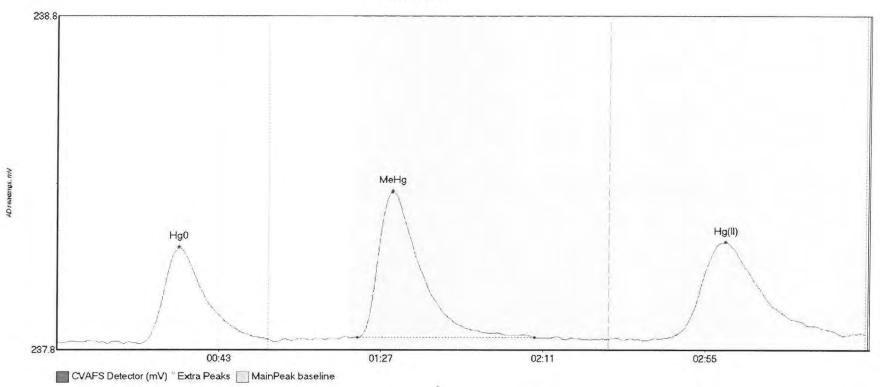


Name		Area
1607586-01RE2	H	58.510
1607586-01RE2	M	74.422
1607586-01RE2	Н	81.147

Start	Time	EndTin
10.3		57.2
30.4		125.7
165.3		219.8

StartValue	EndValu
237.78	237.81
237.80	237.80
237.81	237.81

#32: 1607586-02RE2



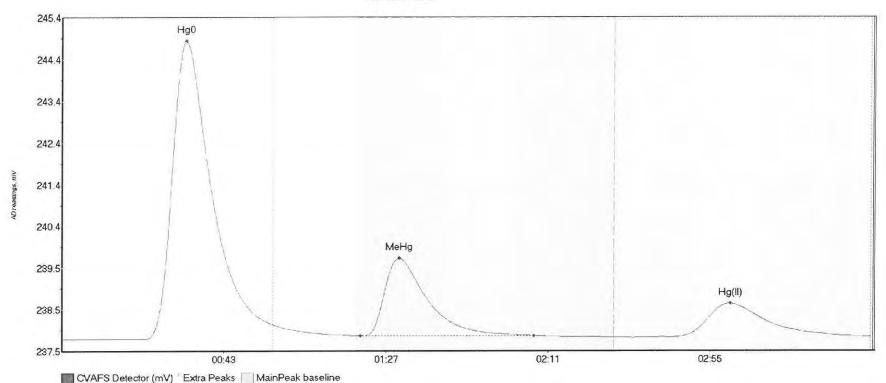
217

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Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607586-02RE2 H	35.603	22.6	57.5	237.77	237.78	33.3	0.289	CT	237.7727	0.00	0.03		226
1607586-02RE2 M	57.608	81.7	129.7	237.79	237.79	91.1	0.437	OK	237.7727	0.00	0.03		216
1607586-02RE2 H	51.862	166.6	213.8	237.79	237.79	181.5	0.286	OK	237.7727	0.00	0.03		

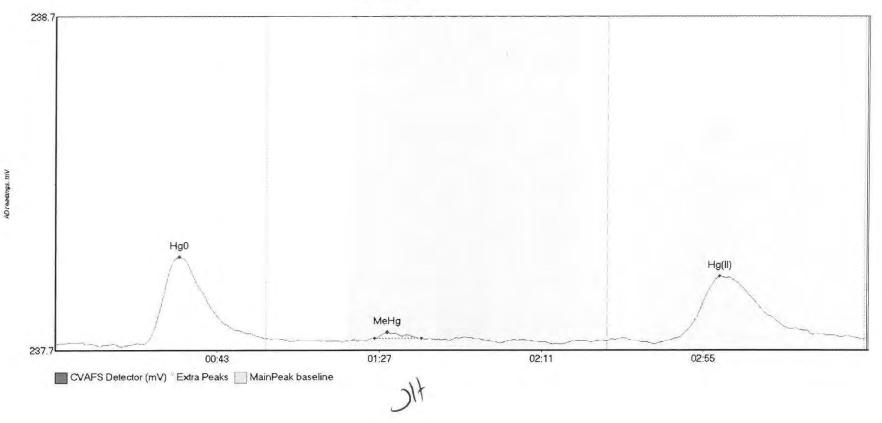
016

#33: SEQ-CCV2

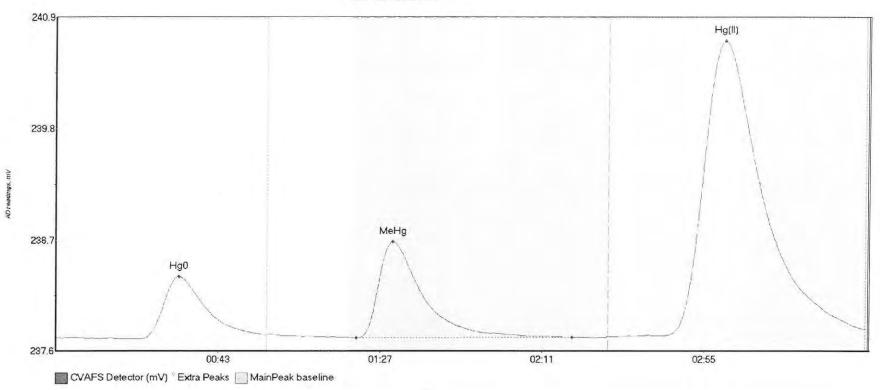




#34: SEQ-CCB2



#35: 1607586-03RE2

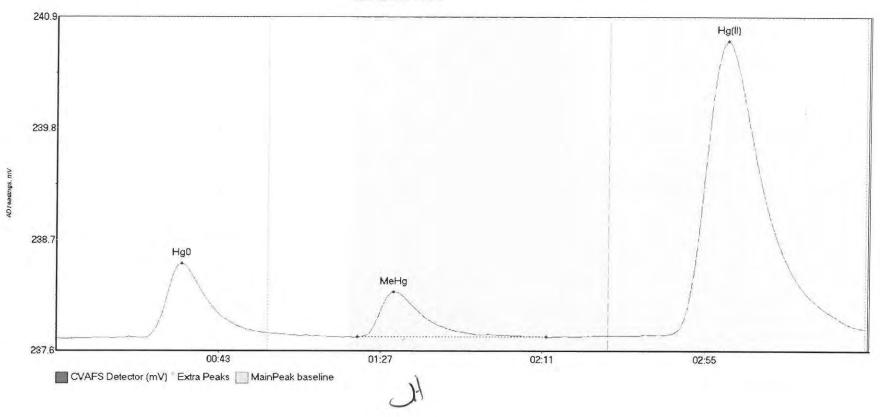


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Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607586-03RE2 H	77.318	22.9	56.9	237.72	237.76	33.3	0.621	OK	237.7321	0.00	0.09		226
1607586-03RE2 M	131.900	81.6	140.1	237.73	237.74	91.5	0.957	OK	237.7321	0.00	0.09		016
1607586-03RE2 H	527.773	154.5	219.8	237.75	237.82	181.6	2.931	CT	237.7321	0.00	0.09		

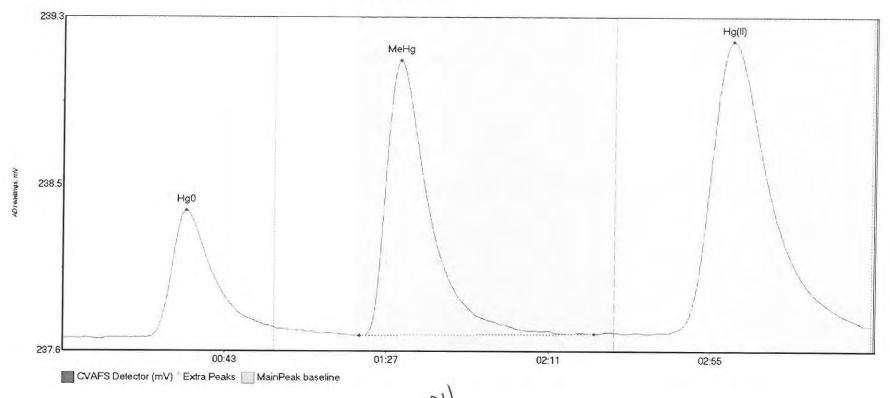
#36: 1607586-04RE2



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of	
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Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607586-04RE2 H	87.715	16.6	57.5	237.72	237.77	34.0	0.729	CT	237.7128	0.00	0.10		25.2
1607586-04RE2 M	61.130	81.9	133.2	237.73	237.73	91.6	0.443	OK	237.7128	0.00	0.10		016
1607586-04RF2 H	519 035	157 9	219 8	237 74	237 81	182 0	2 991	Cm	227 7120	0 00	0 10		

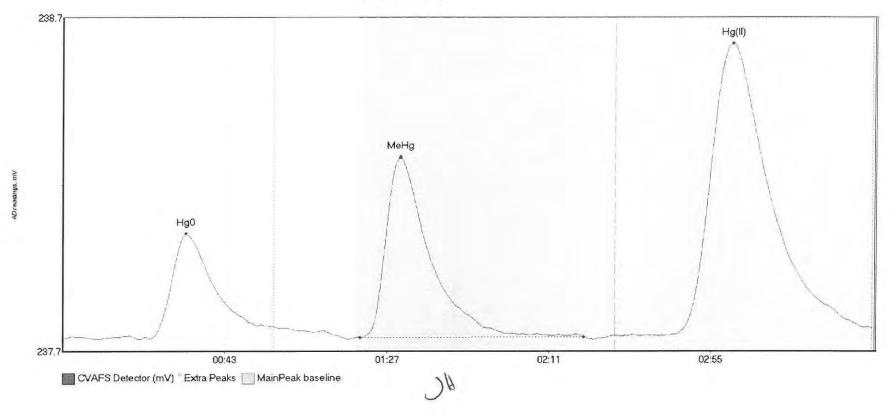
#37: 1607586-05RE2



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1607586-05RE2 M 181.217 80.7 144.4 237.72 237.73 91.6 1.339 OK 237.7053 0.00 0.06			6
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#38: 1607586-06RE2



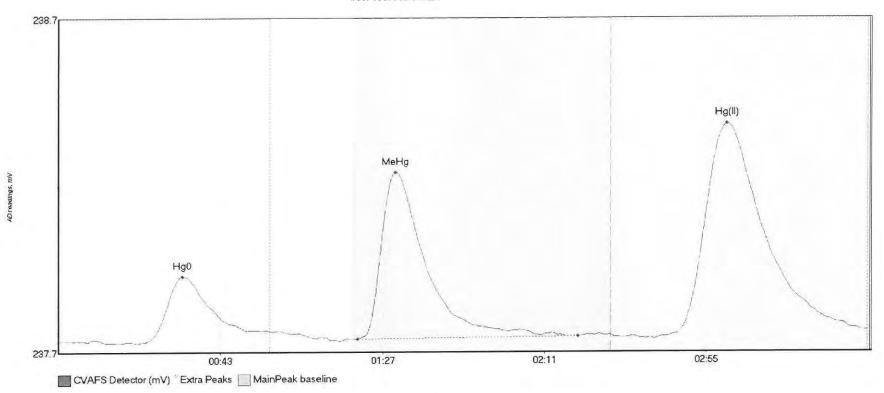
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PeakHeight	Flags
0.315	CT
0.539	OK
0.872	CT

Baseline	B1
237.7027	0.
237.7027	0.
237.7027	0.

BlDev	BlShi
0.00	0.03
0.00	0.03
0.00	0.03

#39: 1607586-07RE1

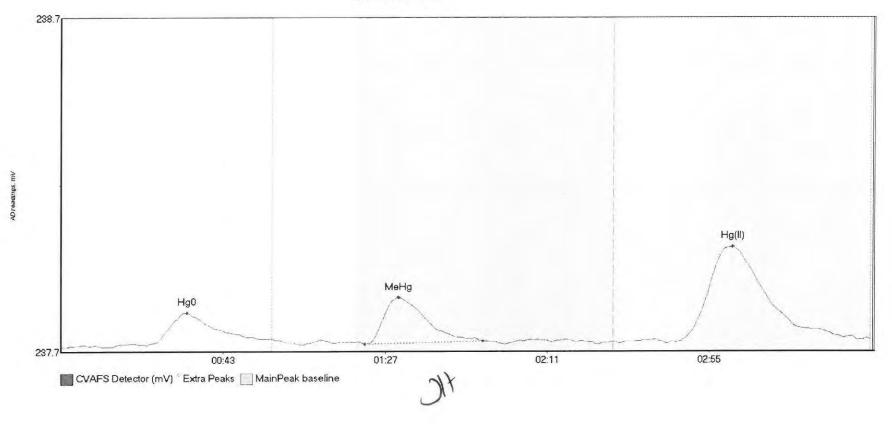


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of 463	
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Name Area	Start T	Time EndTime	StartVal	ue EndValue	Peak Max	PeakHeigh	nt Flags			BlShift	Comment	
1607586-07RE1 H 23.8	07 23.2	57.5	237.68	237.71	33.7	0.197	CT	237.6873	0.00	0.03		016
1607586-07RE1 M 70.2		141.0	237.69	237.70	91.4	0.501	OK	237.6873	0.00	0.03		310
1607596-07REI H 114		219.8	237.70	237.72	181.6	0.637	CT	237.6873	0.00	0.03		

#40: 1607586-08RE1

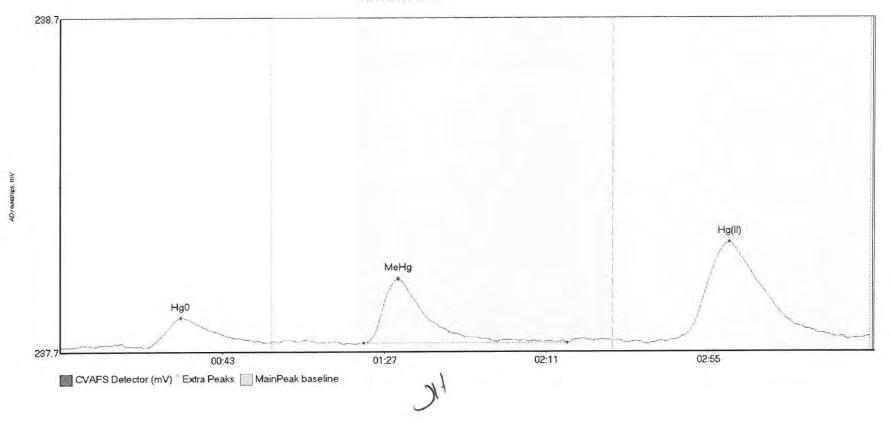


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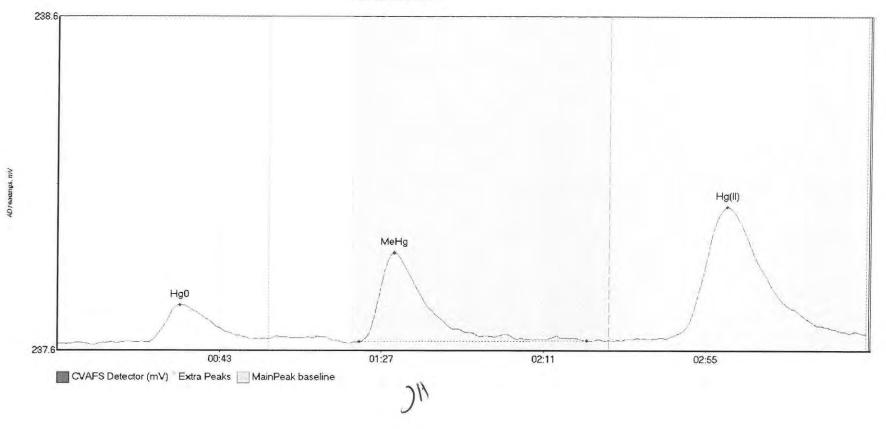
Name	Area	Start Time	EndTime	Startvalue	Endvalue	Peak Max	reakheight	Flags	Baseline	Biber	BISHILL	Comment	
1607586-08RE1 H	12.309	13.8	54.3	237.68	237.70	34.2	0.103	OK	237.6780	0.00	0.02		016
1607586-08RE1 M		82.5	114.6	237.69	237.70	91.6	0.141	OK	237.6780	0.00	0.02		310
1607586-08RE1 H		167.1	216.4	237.69	237.70	182.5	0.285	OK	237.6780	0.00	0.02		

#41: 1607586-09RE1



Name Area 1607586-09RE1 H 12.2 1607586-09RE1 M 26.2 1607586-09RE1 H 50.5	23 22.9 26 82.5	me EndTime 56.5 137.7 213.8	StartValue 237.67 237.69 237.70	EndValue 237.69 237.69 237.70	Peak Max 32.6 91.8 181.7	PeakHeight 0.091 0.192 0.292	Flags OK OK OK	Baseline 237.6739 237.6739 237.6739		BlShift 0.03 0.03 0.03	Comment	016
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#42: 1607586-11RE1



rea	A		Name
1.201	1 1	H	1607586-11RE1
3.341	4 3	M	1607586-11RE1
.338	1 7	Н	1607586-11RE1
	1 7	H	1607586-11RE1

Start	Time	EndTir
24.4		52.8
32.2		143.9
160.9		219.8

StartValue	EndVa.
237.67	237.68
237.67	237.68
237.68	237.70

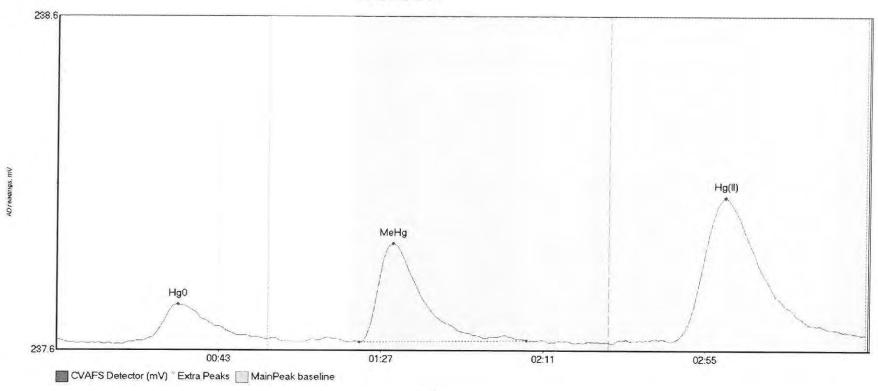


PeakHeight	Flags
0.112	OK
0.267	OK
0.397	CT

Baseline	BlDev
237.6679	0.00
237,6679	0.00
237.6679	0.00

BlShift
0.03
0.03
0.03

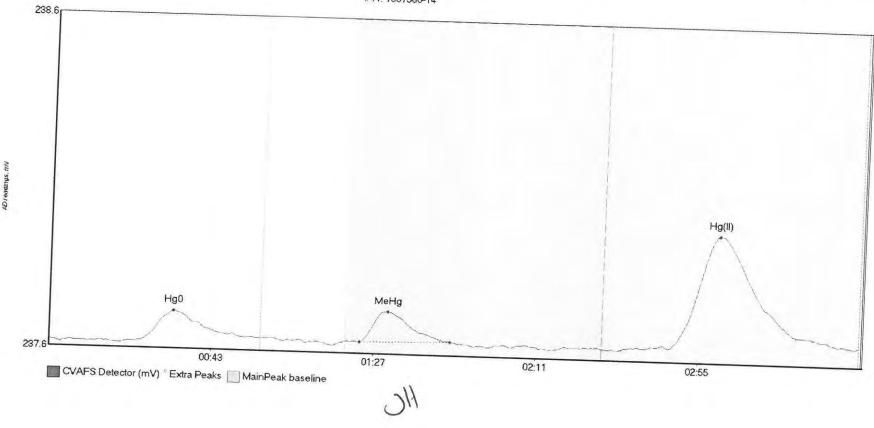
#43: 1607586-13RE1





Name 1607586-13RE1 H 1607586-13RE1 M 1607586-13RE1 H	40.381	Start Time 23.4 82.2 166.8	EndTime 56.9 127.4 218.9	237.66	EndValue 237.67 237.67 237.68	Peak Max 33.0 91.3 181.5	PeakHeight 0.109 0.295 0.432	Flags OK OK OK	Baseline 237.6698 237.6698 237.6698	The second second	BlShift 0.02 0.02 0.02	Comment	016
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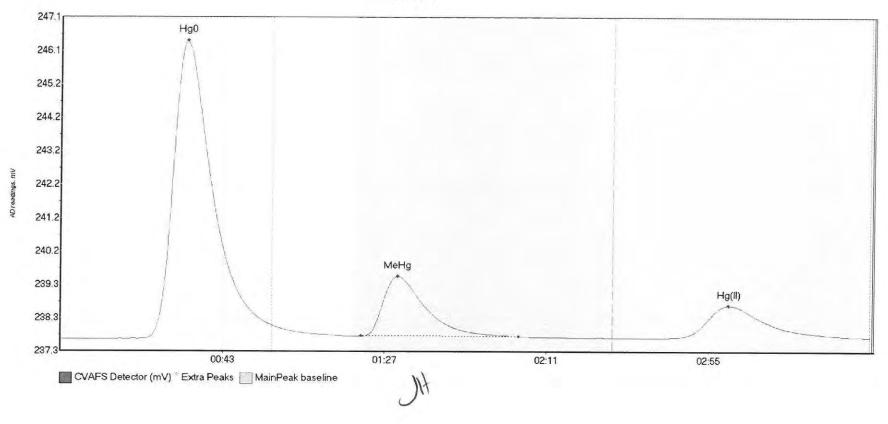


1607586-14 Hg0 11. 1607586-14 MeHg 10. 1607586-14 Hg(I 60.	39 24.7	56.2 108.8 218.4	StartValu 237.65 237.66 237.67	237.67 237.67 237.68	Peak Max 33.6 91.7 181.4	PeakHeight 0.090 0.093 0.344	Flags OK OK OK	237.6512	0.00	BlShift 0.04 0.04 0.04	Comment	016
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Name

Area

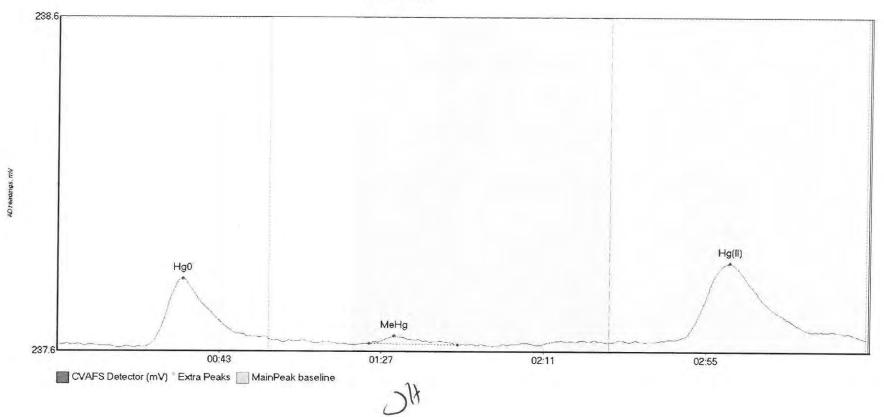
#45: SEQ-CCV3



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Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
SEQ-CCV3 Hg0	1024.077	21.2	57.5	237.65	238.05	34.1	8.771	CT	237.6493		0.06	- Continue To	
SEQ-CCV3 MeHg				237.74			1.767	OK	237.6493	0.00	0.06		016
SEQ-CCV3 Hg(II)	170.508	165.3	219.8	237.70	237.71	181.5	0.953	CT	237.6493	0.00	0.06		

#46: SEQ-CCB3



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463	

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment		
SEQ-CCB3 Hg0	24.835	23.3		237.64		34.2	0.205	CT	237.6457		0.02	Conductio		
SEQ-CCB3 MeHg	2.877	84.7	108.7	237.65	237.65	91.6	0.023	OK	237.6457		0.02		016	
SEQ-CCB3 Hg(II)	43.488	164.6	219.8	237.66	237.67	182.5	0.233	CT	237.6457		0.02			

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2015 Rev 5 (08/06/2015)

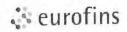
Analyst:	Ryan Nelson	1	_Sequence #:			1011		
Reviewer:	Jeanne Harre	21	_ Dataset ID #:		MHg2700	1-160811-1		
Date:			_wo #:	-				
Batch #(s):	F608251		_Client(s):					
Select	the correct preparati	ion method.		Additional Comment	s:			
Analyte	Prep Method	Matrix	1	107586-1418	E7 n	of mo	ortable.	need
✓ MHg	FGS-013 MHg Distillation	Water		607586-04R	1-11	1 10	, ,	
☐ MHg	FGS-010 KOH/MeOH Digest	Tissue		to be re.	912+111	es. JA	1 8/11/1	1
☐ MHg	FGS-045 MeCl Extraction	Sed/Soil						
☐ DMHg	FGS-098 (None Accredited method)	ALL						
					Analyst I	nitials:	Reviewer	Initials:
1. Compare Sa	ample ID with Bench she	eet/Sequence/Raw	Data (Have all sa	amples been imported?)	✓ YES	□ NO		0
2. Check for tr	anscription errors from	Excel spreadsheet	(or Prep Bench s	heet)/Raw data	✓ YES	□ NO		B
(a) Reviewe	er: 100% of peak height	s checked			YES	□ NO		
(b) Are the	re peak height errors?				☐ ¥ES	☐ NO		D
(c) Error or	a sample: Do peak hei	ights, responses,	& initial results ma	tch corrected data?	YES	☐ NO	□ N/A	
(d) Error or	a Cal Pt, ICB/CCB, or I	PB: Has the data	been reimported?		YES	□ NO	□ N/A	
(e) Check s	tandards & reagents in s	sequence & bench	sheet for correct	usage (i.e. expiries).	YES YES	□ NO	☐ N/A	B
(f) Check a	nd compare masses (rev	view prep bench s	heet)		YES	☐ NO	✓ N/A	0
(g) Check a	and compare initial and f	final volumes			✓ YES	☐ NO	□ N/A	09999
(h) Do aliqu	ots and dilutions writter	n on benchsheet r	match those in Exc	cel?	✓ YES	□ NO	☐ N/A	0
(i) Is the pl	H>3.0 for all distilled sar	mples?			✓ YES	□ NO	□ N/A	
(j) Is the se	equence #, analyst, date	e, and instrument	# on the QC page	?	✓ YES	□ NO		
(k) Is the a	nalysis status correct? (a	analyzed/initial re	view/reviewed)		✓ YES	☐ NO		0
(I) Original	prep bench sheet added	d to data package	?		✓ YES	□ NO		
(m) Benchs	heet prep date MUST m	atch actual prep	date (check if re-sl	hot vs re-extract)	✓ YES	□ NO		D
3. High QA?		Tiant/a).			YES	☑ NO		3
4. Client speci	fic QC? (if Yes, refer to I				✓ YES	□ NO		0
	e QC requirements beer				YES	☐ NO		
	samples in batch?				✓ YES	□ NO		0
(a) 3 PBs, 1	LCS/LCSD (or BS/BSD)	, 2 MS/MSD/MD n	er batch?		→ YES	□ NO		0
	and 1 CCB every 10 anal		2702-5-1,00		✓ YES	□ NO		
QA/QC Data		* 17 man 1 m 1 m 1 m 1						
	tion curve included a mi	nimum of 5 Stand	ards		✓ PASS	FAIL	□ N/A	
Comments:								
	ion Standard % Recover	ries (65-135%)			✓ PASS	FAIL	N/A	B
Comments		(00 100 10)						
8. RSD CF (≤					✓ PASS	FAIL		1
Comments	7.74							

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2013 Rev 4 (08/22/2013) Analyst: Ryan Nelson Sequence #: 6H11011 Reviewer: organie Have Dataset ID #: MHg27001-160811-1 Date: 8/11/2016 WO #: Batch #(s): F608251 Client(s): als: **Reviewer Initials:** 9. ICV % Recoveries 67-133% PASS FAIL Comments: 10. CCV % Recoveries 67-133% V PASS FAIL Comments: 11. Are the absolute value of the ICB and CCBs < PQL? PASS FAIL 2 Comments: 12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%) V PASS FAIL 0 Comments: 13. LCS/LCSD or BS/BSD RPD (< 25%) ✓ PASS FAIL Comments: 14. Water: Average of Preparation Blanks < 0.045 ng/L and standard devaition of 0.015 ng/L? ✓ PASS FAIL N/A 15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix? PASS ✓ N/A FAIL Comments: PASS FAIL 16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done) ☐ NO YES V N/A 17. Is the correct 'Source' designated for MD/MS/MSD? ✓ YES □ NO 1 18. For digested preps: was there a spike witness signature & date on the prep bench sheet? ✓ YES □ NO N/A 7 19. MD RPD/MT RSD(< 35%) PASS FAIL Comments: QR-07 20. Is there one set of MS/MSD per every 10 samples? PASS FAIL 1 Comments: 21. MS/MSD RPD(< 35%) ✓ PASS FAIL Comments: 22. MS (AS) % Recoveries (65-130%) V PASS FAIL Comments: 23. MSD (ASD) % Recoveries (65-130%) PASS FAIL Comments: 24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630) ✓ YES V NO 25. Are all samples within instrument calibration range (or at maximum aliquot size)? ✓ YES □ NO Comments: 26. For instrumental dilutions, is the dilution factor in excel correct? PASS □ NO ✓ N/A Is the sample volume, diluents, and final volume of the dilution noted on benchsheet? PASS □ NO V N/A 27. Dissolved < Total metals (if applicable) ✓ PASS NO N/A 1 28. Effluent < Influent metals (visually confirm if needed) PASS ☐ NO V N/A Comments:

Analyst:	Ryan Nelson	Sequence #: 6H11011				
Reviewer:	exerne parel	Dataset ID #: MHg27001-160811-1				
Date:	8/11/2016	wo #:				
Batch #(s):	F608251	Client(s):				
			Analyst	nitials:	Reviewer	Initials:
29. Are re-run	s noted with reason?		YES	□ NO	✓ N/A	
Comments:						
30. For failing	QC (CCV, CCB, PB, BS/BSD, CAL):	YES	□ NO	✓ N/A	
Was a bubb	oler and trap test run before the	analytical run continued?				-
Comments:						
31. Do re-run	results compare to initial analysis	(< 35% RPD)?	YES	□ NO	✓ N/A	D
Comments:		0. 13.13.41.54				
32. Are qualifi	ers consistent with the data revie	w flowcharts?	✓ YES	□ NO	□ N/A	
Comments:	QR-07					
33. Have non-	reportable samples been importe	d into LIMS and clicked to non-reportable?	YES	□ NO	√ N/A	M
		2 distillation error, need	,	nelies	14 6	hil.
	xtracts been created for non-repo		YES	□ NO	✓ N/A	11/5
	in MMO box in LIMS?	1	Jit :	SING		4
Comments	t					
36. Are there	any HIGH QA projects within the	data?	YES	✓ NO		1
If so, place	e dataset to the QA office.					
37. Does the d	data set need scanning?		✓ YES		□ N/A	N
		ty Assurance\Training Master\DOCs				
	and the second s	5/16 IDOC/CDOC within last 12 months?	✓ YES	□ NO		Ø
39. Date of an	alyst's SOP reading:	8/16 Current SOP revision?	✓ YES	□ NO		
40. Date of LC	DAHL 6/16/16 LOD WIL	nin last 3 months (within 12 months for MDN)?	✓ YES	□ NO	□ N/A	
41. Date of LC	100 wit	hin last 3 months (within 12 months for MDN)?	✓ YES	□ NO	□ N/A	
42. If MDN sar	mples, date of last MDL study:	vision (a month):				
	within last 12 months?		YES	□ NO	✓ N/A	
Data can not	be reported without a current I	DOC/CDOC, LOD or LOQ.	-			
		The state of the s				
Additional Con	amonto		T wee			

YES VO

MMHg27001-160812-1 solids



Frontier Global Sciences

Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: August 12, 2016 Instrument #: Hg2700-1

LIMS Sequence #: 6H12012/D

N 8/15/16

Analyst: RN Units ng/L

libration Stati		True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
LabNumber	n		34,53 units	690.64	32.30 units	646.03	97.5 %Rec
SEQ-CAL1	1	0.05 ng/L		710.25	139.82 units	699.09	105.5 %Rec
SEQ-CAL2	1	0.20 ng/L	142.05 units	551.84	549.61 units	549.61	82.9 %Rec
SEQ-CAL3	1	1.00 ng/L	551.84 units	657.88	1313.53 units	656.76	99.1 %Rec
SEQ-CAL4	1	2.00 ng/L	1315.76 units		3050.61 units	762.65	115.1 %Rec
SEO-CAL5	1	4.00 ng/L	3052.84 units	763.21	3030.01 dilics	702.00	
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEO-CAL9	0						

Uncorr. Mean RF Corr. St Dev RF Corr. RSD CF Corr. Mean RF 674.76 11.8% RSD +/- 78.13 662.83

Blanks:

Blanks:			61.10	Moan (ng/1)	Std Dev (ng/L)
LabNumber	n	Mean	Std Dev	Mean (ng/L)	
SEQ-IBL	1	2.23 units		0.00 ng/L	#VALUE!

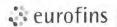
Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.005 ng/L	±0.004
BLK	2	3	0.013 ng/L	±0.003
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

JUALITY ASSURANCE MITTALS . JH BLISTIC

_		Sample			Service.	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
strument	Analyst	Type	LabNumber	Dilution	Analyzed	FileID	8:27	2.23			0.0	0.000	0.000	ng/L	
lo2700-1	RN	CAL	SEQ-IBL1	1	8/12/16 8:27	14252-1.RAW	8:38	34.53			32.3	0.049	0.049	ng/L	
lg2700-1	RN	CAL	SEQ-CAL1	1	8/12/16 8:38	14253-1.RAW	8:48	142.05			139.8	0.211	0.211	ng/L	
	RN	CAL	SEQ-CAL2	1	8/12/16 8:48	14254-1.RAW		551.84			549.6	0.829	0.829	ng/L	
+g2700-1	RN	CAL	SEQ-CAL3	1	8/12/16 8:59	14255-1.RAW	8:59	1315.76			1313.5	1.982	1.982	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL4	1	8/12/16 9:09	14256-1.RAW	9:09	3052.84	-		3050.6	4.602	4.602	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL5	1	8/12/16 9:20	14257-1.RAW	9:20	333.68	-		331.5	0.500	0.500	ng/L	
Hg2700-1	RN	CAL	SEQ-ICV1	1	8/12/16 9:30	14258-1.RAW	9:30	7.83			5.6	0.008	0.008	ng/L	
Hg2700-1		CAL	SEQ-ICB1	1	8/12/16 9:41	14259-1.RAW	9:41	5.22		×	3.0	0.005	0.006	ng/L	
Hg2700-1	RN	BLK	F608273-BLK1	1.25	8/12/16 9:51	14260-1.RAW	9:51			×	4.2	0.006	0.008	ng/L	
Hg2700-1	RN	BLK	F608273-BLK2	1.25	8/12/16 10:02	14261-1.RAW	10:02	6.39		X	0.1	0.000	0.000	ng/L	
Hg2700-1	RN		F608273-BLK3	1.25	8/12/16 10:12	14262-1.RAW	10:12	2.30	-		340.2	0.513	0.642	ng/L	
Hg2700-1	RN	BLK		1.25	8/12/16 10:23	14263-1.RAW	10:23	342.44		×	467.0	0.705	0.881	ng/L	
Hg2700-1	RN	SAM	F608273-BS1	1.25	8/12/16 10:34	14264-1.RAW	10:34	469.25		x	74.9	0.113	0.141	ng/L	
Hg2700-1	RN	SAM	F608273-BSD1	1.25	8/12/16 10:44	14265-1.RAW	10:44	77.12		×	485.4	0.732	0.915	ng/L	
Hg2700-1	RN	SAM	F608273-DUP1	1.25	8/12/16 10:55	14266-1.RAW	10:55	487.64		x	168.8	0.255	0.318	ng/L	
Hg2700-1	RN	SAM	F608273-MS1	1.25	8/12/16 11:05	14267-1.RAW	11:05	171.08	4	x		0.520	0.650	ng/L	
Hg2700-1	RN	SAM	F608273-MS2	1.25	8/12/16 11:16	14268-1.RAW	11:16	346.76		x	344.5	0.320	0.255	ng/L	
Hq2700-1	RN	SAM	F608273-MSD1	1.25	8/12/16 11:26	14269-1.RAW	11:26	137.71	1	×	135.5	0.204	0.449	ng/L	
Hg2700-1	RN	SAM	F608273-MSD2	1,25	8/12/16 11:37	14270-1.RAW	11:37	300.07	7		297.8		0.005	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV1		8/12/16 11:47	14271-1.RAW	11:47	5.7			3.5	0.005	0.003	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB1	1		14272-1.RAW	11:58	29.2		×	27.0	0.041			
Hg2700-1	RN	SAM	1607542-01	1.25	8/12/16 11:58	14273-1.RAW	12:08		7	X	33.8	0.051	0.064	ng/L ng/L	
Hg2700-1	RN	SAM	1607542-03	1.25	8/12/16 12:08	14274-1.RAW	12:19			x	12.6	0.019	0.024		
Hg2700-1	RN	SAM	1607542-04	1.25	8/12/16 12:19	14275-1.RAW	12:29		2	×	17.2	0.026	0.032	ng/L	
Hq2700-1	RN	SAM	1607542-05	1.25	8/12/16 12:29	14276-1.RAW	12:40) :	×	20.8	0.031	0.039	ng/L	
Hg2700-1	RN	SAM	1607542-06	1.25	8/12/16 12:40	14277-1.RAW	12:50	777		×	14.2	0.021	0.027	ng/L	
Hg2700-1	RN	SAM	1607542-07	1,25	8/12/16 12:50	14278-1.RAW	13:01	10.2		×	10.7	0.016	0.020	ng/L	
Hq2700-1	RN	SAM	1607586-12	1.25	8/12/16 13:01		13:11			×	19.2	0.029	0.036	ng/L	
Hg2700-1	RN	SAM	1607586-19	1.25	8/12/16 13:11	14279-1.RAW	13:11			1 ×	6.5	0.010	0.012	ng/L	
Hg2700-1	RN	SAM	1607586-20	1.25	8/12/16 13:22	14280-1.RAW	13:32		*	1 x	0.1	0.000	0.000	ng/L	
	RN	SAM	1607586-21	1,25	8/12/16 13:32	14281-1.RAW				1"	397.3	0.599	0.599	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV2	1	8/12/16 13:43	14282-1.RAW	13:43	-			1.0	0.001	0.001	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB2	1	8/12/16 13:53	14283-1.RAW	13:53			1 x	16.4	0.025	0.031	ng/L	
Hg2700-1	RN	SAM	1607772-01	1.25	8/12/16 14:04	14284-1.RAW	14:04	12.7		1 ×	11.0	0.017	0.021	ng/L	
Hg2700-1	RN	SAM	1607772-02	1.25	8/12/16 14:14	14285-1.RAW	14:14			1 x	23.0	0.035	0.043	ng/L	
Hg2700-1		SAM	1607772-03	1.25	8/12/16 14:25	14286-1.RAW	14:25		-	1 x	8.7	0.013	0.016	ng/L	
Hg2700-1	RN	SAM	1607772-04	1.25	8/12/16 14:35	14287-1 RAW	14:35		ar	1 x	10.0	0.015	0.019	ng/L	
Hg2700-1	RN	SAM	1607772-05	1.25	8/12/16 14:46	14288-1.RAW	14:46	-		1 x	5.2	0.008	0.010	ng/L	
Hg2700-1	RN	-	1607772-06	1.25	8/12/16 14:56	14289-1.RAW	14:56	-	-	1 x 1 x	9.4	0.014	0.018	ng/L	
Hg2700-1	RN	SAM	1607772-07	1,25	8/12/16 15:07	14290-1.RAW	15:0				57.8	0.087	0.109	ng/L	
Hg2700-1	RN	SAM	1607786-04RE3	1,25	8/12/16 15:17	14291-1.RAW	15:1			1 ×	376.3	0.568	0.710	ng/L	
Hg2700-1	RN	SAM	1607805-01	1.25	8/12/16 15:28	14292-1.RAW	15:2		The state of the s	1 ×	76.4	0.115	0.144	ng/L	
Hg2700-1	RN	SAM		1.25	8/12/16 15:38	14293-1.RAW	15:3		-	1 x	341.2	0.515	0.515	ng/L	
Hg2700-1	RN	5AM	1607805-02	1	8/12/16 15:49	14294-1.RAW	15:4				1.3	0.002	0.002	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV3	1	8/12/16 15:59	14295-1.RAW	15:5					0.010	0.010	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB3	1	8/12/16 16:10	14296-1.RAW	16:1			2	6.9	0.016	0.016	ng/L	
Hg2700-1	RN	BLK	F608155-BLK1 F608155-BLK2	4	8/12/16 16:20	14297-1.RAW	16:2	12.9	92	2	10.7	0.010	0.010	1	

		Sample	1 - CANADA - A	Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
nstrument	Analyst	Туре	LabNumber				16:31	11.01	2	130000000000000000000000000000000000000	8.8	0.013	0.013	ng/L	
Hg2700-1	RN	BLK	F608155-BLK3	1	8/12/16 16:31	14298-1.RAW 14299-1.RAW	16:41	776.73	2		774.5	1.167	11.671	ng/L	
Hg2700-1	RN	SAM	F608155-BS1	10	8/12/16 16:41		16:52	779.46	2		777.2	1.171	11.713	ng/L	
Hg2700-1	RN	SAM	F608155-BSD1	10	8/12/16 16:52	14300-1.RAW	17:02	19.87	2		17.6	0.013	0.013	ng/L	
Hg2700-1	RN	SAM	F608155-DUP1	1	8/12/16 17:02	14301-1.RAW		645.63	2		643.4	0.969	9.694	ng/L	
Hg2700-1	RN	SAM	F608155-MS1	10	8/12/16 17:13	14302-1,RAW	17:13	677.95	2		675.7	1.018	10.181	ng/L	
Hg2700-1	RN	SAM	F608155-MSD1	10	8/12/16 17:23	14303-1.RAW	17.23	665.80	2		663.6	1.000	9.998	ng/L	
Hg2700-1	RN	SAM	F608155-MS2	10	8/12/16 17:34	14304-1.RAW	17:34		2		778.9	1.174	11.737	ng/L	
Hg2700-1	RN	SAM	F608155-MSD2	10	8/12/16 17:44	14305-1.RAW	17:44	781.10	2		453.1	0.684	0.684	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV4	1	8/12/16 17:55	14306-1.RAW	17:55	455.29			3.1	0.005	0.005	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB4	1	8/12/16 18:06	14307-1.RAW	18:06	5.37				0.621	0.621	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV5	1	8/12/16 18:16	14308-1.RAW	18:16	413.96			411.7	0.621	0.619	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV6	1	8/12/16 18:27	14309-1.RAW	18:27	412.44			410.2		0.014		
Hg2700-1	RN	SAM	1607782-15	1	8/12/16 18:37	14310-1.RAW	18:37	20.06	2		17.8	0.014		ng/L	
Hq2700-1	RN	SAM	1607782-16	1	8/12/16 18:48	14311-1.RAW	18:48	49.59	2		47.4	0.058	0.058	ng/L	
Hg2700-1	RN	SAM	1607782-17	1	8/12/16 18:58	14312-1.RAW	18:58	69.34	2		67.1	0.088		ng/L	
Hg2700-1	RN	SAM	1607782-18	1	8/12/16 19:09	14313-1.RAW	19:09	35.89	2		33.7	0.038	0.038	ng/L	
Hg2700-1	RN	SAM	1607782-19	1	8/12/16 19:19	14314-1.RAW	19:19	22.19	2		20.0	0.017	0.017	ng/L	
Ha2700-1	RN	SAM	1607782-20	1	8/12/16 19:30	14315-1.RAW	19:30	37.36	2		35.1	0.040	0.040	ng/L	
Hg2700-1	RN	SAM	1607782-21	1	8/12/16 19:40	14316-1.RAW	19:40	37.23	2		35.0	0.040	0.040	ng/L	
Hg2700-1	RN	SAM	1607783-01	1	8/12/16 19:51	14317-1.RAW	19:51	293.90	2		291.7	0.427	0.427	ng/L	
Hg2700-1	RN	SAM	1607783-02	1	8/12/16 20:01	14318-1.RAW	20:01	54.69	2		52.5	0.066	0.066	ng/L	
Hg2700-1	RN	SAM	1607783-03	1	8/12/16 20:12	14319-1.RAW	20:12	43.30	2		41.1	0.049	0.049	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV7	1	8/12/16 20:22	14320-1.RAW	20:22	293.87			291.6	0.440	0.440	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB5	1	8/12/16 20:33	14321-1.RAW	20:33	2.91			0.7	0.001	0.001	ng/L	
Hg2700-1	RN	SAM	1607783-04	1	8/12/16 20:43	14322-1.RAW	20:43	36.56	2		34.3	0.039	0.039	ng/L	
Hg2700-1	RN	SAM	1607783-05	1	8/12/16 20:54	14323-1.RAW	20:54	30.44	2		28.2	0.029	0.029	ng/L	
Hg2700-1	RN	SAM	1607783-06	1	8/12/16 21:04	14324-1.RAW	21:04	113.82	2		111.6	0.155	0.155	ng/L	
Hg2700-1	RN	SAM	1607783-07	1	8/12/16 21:15	14325-1.RAW	21:15	220.25	2		218.0	0.316	0.316	ng/L	
Hg2700-1	RN	SAM	1607783-08	1	8/12/16 21:25	14326-1.RAW	21:25	29.67	2		27.4	0.028	0.028	ng/L	
Hg2700-1	RN	SAM	1607783-09	1	8/12/16 21:36	14327-1.RAW	21:36	19.89	2		17.7	0.013	0.013	ng/L	
Hg2700-1	RN	SAM	1607783-10	1	8/12/16 21:46	14328-1.RAW	21:46	20.75	2		18.5	0.015	0.015	ng/L	
	RN	SAM	1607783-11	1	8/12/16 21:57	14329-1.RAW	21:57	69.74	2		67.5	0.089	0.089	ng/L	
Hg2700-1	RN	SAM	1607783-12	1	8/12/16 22:07	14330-1.RAW	22:07	31.76	2		29.5	0.031	0.031	ng/L	
Hg2700-1	RN	SAM	1607783-13	1	8/12/16 22:18	14331-1.RAW	22:18	19.86	2		17.6	0.013	0.013	ng/L	
Hg2700-1	RN	CAL	SEO-CCV8	1	8/12/16 22:28	14332-1.RAW	22:28	319.82			317.6	0.479	0.479	ng/L	
Hg2700-1 Hg2700-1	RN	CAL	SEQ-CCB6	1	8/12/16 22:39	14333-1.RAW	22:39	2.94			0.7	0.001	0.001	ng/L	



Frontier Global Sciences

Analysis Datasheet for Methyl Mercury in Waters

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Date of Analysis: August 12, 2016 Instrument #: Hg2700-1

LIMS Sequence #: 6H1201011

Units ng/L

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEO-CAL1	1	0.05 ng/L	34.53 units	690.64	32.30 units	646.03	97.5 %Rec
SEO-CAL2	1	0.20 ng/L	142.05 units	710.25	139.82 units	699.09	105.5 %Rec
SEO-CAL3	1	1.00 ng/L	551.84 units	551.84	549.61 units	549.61	82.9 %Rec
SEO-CAL4	1	2.00 ng/L	1315.76 units	657.88	1313.53 units	656.76	99.1 %Rec
SEO-CAL5	1	4.00 ng/L	3052.84 units	763.21	3050.61 units	762.65	115.1 %Rec
SEO-CAL6	0						
SEO-CAL7	0						

Corr. St Dev RF Corr. RSD CF Uncorr. Mean RF Eff Factor Corr. Mean RF 662.83 +/- 78.13 11.8% RSD 674.76 0.8046

Blanks

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEO-IRI	1	2.23 units		0.00 ng/L	#VALUE!

MDN Only SEQ-CAL1 SEQ-CAL2 SEQ-CAL3 SEQ-CAL4 SEQ-CAL5 SEQ-CAL6 NA SEQ-CAL7 NA SEQ-CAL8 NA SEQ-CAL9 NA SEQ-ICV/CCV Acetate Buffer Ethylating Agent

Preparation Blanks

SEQ-CAL8

SEQ-CAL9

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.006 ng/L	±0.005
BLK	2	0	0.000 ng/L	
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

JUALITY ASSURANCE MITIALS: SH 81,5/K

		Sample						Uncorrected		No PB					
instrument	Analyst	Туре	LabNumber	Dilution	Analyzed	FileID	Run End	Response	Batch ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hq2700-1	RN	CAL	SEQ-IBL1	1	8/12/16 8:27	14252-1.RAW	8;27	2,23	-		0.0	0.000	0.000	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL1	1	8/12/16 8:38	14253-1.RAW	8:38	34.53			32.3	0.049	0.049	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL2	1	8/12/16 8:48	14254-1.RAW	8:48	142.05			139.8	0.211	0.211	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL3	1	8/12/16 8:59	14255-1.RAW	8:59	551.84			549.6	0.829	0.829	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL4	1	8/12/16 9:09	14256-1.RAW	9:09	1315.76			1313.5	1.982	1.982	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL5	1	8/12/16 9:20	14257-1.RAW	9:20	3052.84			3050.6	4.602	4.602	ng/L	
Hq2700-1	RN	CAL	SEQ-ICV1	1	8/12/16 9:30	14258-1.RAW	9:30	333.68			331.5	0.500	0.500	ng/L	
Hq2700-1	RN	CAL	SEQ-ICB1	1	8/12/16 9:41	14259-1.RAW	9:41	7.83			5.6	0.008	0.008	ng/L	
Hq2700-1	RN	BLK	F608273-BLK1	1.25	8/12/16 9:51	14260-1.RAW	9:51	5.22	1		3.0	0.006	0.007	ng/L	
Hq2700-1	RN	BLK	F608273-BLK2	1.25	8/12/16 10:02	14261-1.RAW	10:02	6.39	1		4.2	0.008	0.010	ng/L	
Hq2700-1	RN	BLK	F608273-BLK3	1.25	8/12/16 10:12	14262-1,RAW	10:12	2.30	1		0.1	0.000	0.000	ng/L	
Hq2700-1	RN	SAM	F608273-BS1	1.25	8/12/16 10:23	14263-1,RAW	10:23	342.44	1		340.2	0.633	0.792	ng/L	
Hq2700-1	RN	SAM	F608273-BSD1	1.25	8/12/16 10:34	14264-1.RAW	10:34	469.25	1		467.0	0.871	1.089	nq/L	
Hq2700-1	RN	SAM	F608273-DUP1	1.25	8/12/16 10:44	14265-1.RAW	10:44	77.12	1		74.9	0.136	0.170	ng/L	
Hq2700-1	RN	SAM	F608273-MS1	1.25	8/12/16 10:55	14266-1-RAW	10:55	487.64	1	1	485.4	0.906	1.132	ng/L	
Hq2700-1	RN	SAM	F608273-MS2	1.25	8/12/16 11:05	14267-1.RAW	11:05	171.08	1		168.8	0.312	0.390	ng/L	
Hg2700-1	RN	SAM	F608273-MSD1	1.25	8/12/16 11:16	14268-1.RAW	11:16	346.76	1		344.5	0.642	0.802	ng/L	
Hq2700-1	RN	SAM	F608273-MSD2	1.25	8/12/16 11:26	14269-1.RAW	11:26	137.71	1		135.5	0.250	0.312	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV1	1	8/12/16 11:37	14270-1.RAW	11:37	300.07	1		297.8	0.449	0.449	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB1	1	8/12/16 11:47	14271-1.RAW	11:47	5.71	1		3.5	0.005	0.005	ng/L	
Hg2700-1	RN	SAM	1607542-01	1.25	8/12/16 11:58	14272-1.RAW	11:58	29.21	1		27.0	0.046	0.058	ng/L	
Hq2700-1	RN	SAM	1607542-03	1.25	8/12/16 12:08	14273-1.RAW	12:08	36.07	1		33.8	0.059	0.074	ng/L	
Hq2700-1	RN	SAM	1607542-04	1.25	8/12/16 12:19	14274-1.RAW	12:19	14.81	1		12.6	0.019	0.024	ng/L	
Hq2700-1	RN		1607542-05	1.25	8/12/16 12:29	14275-1.RAW	12:29	19.42	1		17.2	0.028	0.035	ng/L	
Hq2700-1	RN	SAM	1607542-06	1.25	8/12/16 12:40	14276-1.RAW	12:40	23.00	1		20.8	0.034	0.043	ng/L	
Hq2700-1	RN	SAM	1607542-07	1.25	8/12/16 12:50	14277-1.RAW	12:50	16.45	1		14.2	0.022	0.028	ng/L	
Hq2700-1	RN		1607586-12	1.25	8/12/16 13:01	14278-1.RAW	13:01	12.89	1		10.7	0.015	0.019	ng/L	
Hq2700-1	RN		1607586-19	1.25	8/12/16 13:11	14279-1.RAW	13:11	21.45	1		19.2	0.032	0.039	ng/L	
Hg2700-1	RN		1607586-20	1.25	8/12/16 13:22	14280-1.RAW	13:22	8.72	1		6.5	0.008	0.010	ng/L	
Hg2700-1	RN		1607586-21	1.25	8/12/16 13:32	14281-1.RAW	13:32	2.33	1		0.1	-0.004	-0.005	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV2	1	8/12/16 13:43	14282-1.RAW	13:43	399.57			397.3	0.599	0.599	ng/L	
Hg2700-1	RN		SEQ-CCB2	1	8/12/16 13:53	14283-1.RAW	13:53	3.20			1.0	0.001	0.001	ng/L	
Hg2700-1	RN		1607772-01	1.25	8/12/16 14:04	14284-1.RAW	14:04	18.61	1		16.4	0.026	0.033	ng/L	
Hg2700-1	RN		1607772-02	1.25	8/12/16 14:14	14285-1.RAW	14:14	13.19	1		11.0	0.016	0.020	ng/L	
Hq2700-1	RN	SAM	1607772-03	1.25	8/12/16 14:25	14286-1.RAW	14:25	25.23	1		23.0	0.039	0.048	ng/L	
Hq2700-1	RN	SAM	1607772-04	1.25	8/12/16 14:35	14287-1.RAW	14:35	10.93	1		8.7	0.012	0.015	ng/L	
Hq2700-1	RN		1607772-05	1.25	8/12/16 14:46	14288-1.RAW	14:46	12.23	1		10.0	0.014	0.018	ng/L	
Hq2700-1	RN	SAM	1607772-06	1.25	8/12/16 14:56	14289-1.RAW	14:56	7.40	1		5.2	0.005	0.006	ng/L	
Hq2700-1	RN		1607772-07	1.25	8/12/16 15:07	14290-1.RAW	15:07	11.64	1		9.4	0.013	0.016	ng/L	
Hq2700-1	RN	SAM	1607586-04RE3	1.25	8/12/16 15:17	14291-1.RAW	15:17	60.08	1		57.8	0.104	0.130	ng/L	
Hq2700-1	RN	SAM	1607805-01	1,25	8/12/16 15:28	14292-1.RAW	15:28	378.52	1		376.3	0.701	0.876	ng/L	
Hq2700-1	RN		1607805-02	1.25	8/12/16 15:38	14293-1.RAW	15:38	78.65	1		76.4	0.139	0.173	ng/L	
Hq2700-1	RN		SEQ-CCV3	1	8/12/16 15:49	14294-1.RAW	15:49	343.43			341.2	0.515	0.515	ng/L	
Hg2700-1	RN		SEQ-CCB3	1	8/12/16 15:59	14295-1.RAW	15:59	3.55			1,3	0.002	0.002	ng/L	
Hg2700-1	RN		F608155-BLK1	1	8/12/16 16:10	14296-1.RAW	16:10	9.14		x	6.9	0.013	0.013	ng/L	
Hq2700-1	RN		F608155-BLK2	1	8/12/16 16:20	14297-1.RAW	16:20	12.92		x	10.7	0.020	0.020	ng/L	

		Sample					-	Uncorrected	Section .	No PB					
Instrument	Analyst	Туре	LabNumber	Dilution	Analyzed	FileID	Run End	Response	Batch ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2700-1	RN	BLK	F608155-BLK3	1	8/12/16 16:31	14298-1.RAW	16:31	11.01		x	8.8	0.016	0.016	ng/L	
Hq2700-1	RN	SAM	F608155-BS1	10	8/12/16 16:41	14299-1.RAW	16:41	776.73		x	774.5	1.452	14.522	ng/L	
Hg2700-1	RN	SAM	F608155-BSD1	10	8/12/16 16:52	14300-1,RAW	16:52	779.46		x	777.2	1.457	14.574	ng/L	
Hq2700-1	RN	SAM	F608155-DUP1	1	8/12/16 17:02	14301-1.RAW	17:02	19.87		×	17.6	0.033	0.033	ng/L	
Hq2700-1	RN	SAM	F608155-MS1	10	8/12/16 17:13	14302-1.RAW	17:13	645.63		×	643.4	1.206	12.064	ng/L	
Hg2700-1	RN	SAM	F608155-MSD1	10	8/12/16 17:23	14303-1.RAW	17:23	677.95	1	x	675.7	1.267	12.670	ng/L	
Hq2700-1	RN	SAM	F608155-MS2	10	8/12/16 17:34	14304-1.RAW	17:34	665.80	The same of	×	663.6	1.244	12.442	ng/L	
Hq2700-1	RN	SAM	F608155-MSD2	10	8/12/16 17:44	14305-1.RAW	17:44	781.10	-	x	778.9	1.460	14.604	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV4	1	8/12/16 17:55	14306-1.RAW	17:55	455.29			453.1	0.684	0.684	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB4	1	8/12/16 18:06	14307-1.RAW	18:06	5.37			3.1	0.005	0.005	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV5	1	8/12/16 18:16	14308-1.RAW	18:16	413.96			411.7	0.621	0.621	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV6	1	8/12/16 18:27	14309-1.RAW	18:27	412.44			410.2	0.619	0.619	ng/L	
Hq2700-1	RN	SAM	1607782-15	1	8/12/16 18:37	14310-1.RAW	18:37	20.06		x	17.8	0.033	0.033	ng/L	
Hq2700-1	RN	SAM	1607782-16	1	8/12/16 18:48	14311-1.RAW	18:48	49.59		×	47.4	0.089	0.089	ng/L	
Hq2700-1	RN	SAM	1607782-17	1	8/12/16 18:58	14312-1.RAW	18:58	69.34		x	67.1	0.126	0.126	ng/L	
Hq2700-1	RN	SAM	1607782-18	1	8/12/16 19:09	14313-1.RAW	19:09	35.89		×	33.7	0.063	0.063	ng/L	
Hq2700-1	RN	SAM	1607782-19	1	8/12/16 19:19	14314-1.RAW	19:19	22.19		×	20.0	0.037	0.037	ng/L	
Hq2700-1	RN	SAM	1607782-20	1	8/12/16 19:30	14315-1.RAW	19:30	37.36		x	35.1	0.066	0.066	ng/L	
Hg2700-1	RN	SAM	1607782-21	1	8/12/16 19:40	14316-1.RAW	19:40	37.23		×	35.0	0.066	0.066	ng/L	
Hq2700-1	RN	SAM	1607783-01	1	8/12/16 19:51	14317-1.RAW	19:51	293.90		x	291.7	0.547	0.547	ng/L	
Hq2700-1	RN	SAM	1607783-02	1	8/12/16 20:01	14318-1.RAW	20:01	54.69		×	52.5	0.098	0.098	ng/L	
Hq2700-1	RN	SAM	1607783-03	1	8/12/16 20:12	14319-1.RAW	20:12	43.30		×	41.1	0.077	0.077	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV7	1	8/12/16 20:22	14320-1.RAW	20:22	293.87			291.6	0.440	0.440	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB5	1	8/12/16 20:33	14321-1.RAW	20:33	2.91			0.7	0.001	0.001	ng/L	
Hg2700-1	RN		1607783-04	1	8/12/16 20:43	14322-1.RAW	20:43	36.56		x	34.3	0.064	0.064	ng/L	
Hq2700-1	RN	SAM	1607783-05	1	8/12/16 20:54	14323-1.RAW	20:54	30.44		×	28.2	0.053	0.053	ng/L	
Hg2700-1	RN	SAM	1607783-06	1	8/12/16 21:04	14324-1.RAW	21:04	113.82		x	111.6	0.209	0.209	ng/L	
Hg2700-1	RN	SAM	1607783-07	1	8/12/16 21:15	14325-1.RAW	21:15	220.25		x	218.0	0.409	0.409	ng/L	
Hq2700-1	RN	SAM	1607783-08	1	8/12/16 21:25	14326-1.RAW	21:25	29.67		x	27.4	0.051	0.051	ng/L	
Hq2700-1	RN	SAM	1607783-09	1	8/12/16 21:36	14327-1.RAW	21:36	19.89		x	17.7	0.033	0.033	ng/L	
Hq2700-1	RN	SAM	1607783-10	1	8/12/16 21:46	14328-1.RAW	21:46	20.75		x	18.5	0.035	0.035	ng/L	
Hg2700-1	RN	SAM	1607783-11	1	8/12/16 21:57	14329-1.RAW	21:57	69.74		x	67.5	0.127	0.127	na/L	
Hq2700-1	RN		1607783-12	1	8/12/16 22:07	14330-1.RAW	22:07	31.76		x	29.5	0.055	0.055	ng/L	
Hq2700-1	RN	SAM	1607783-13	1	8/12/16 22:18	14331-1.RAW	22:18	19.86		x	17.6	0.033	0.033	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV8	1	8/12/16 22:28	14332-1.RAW	22:28	319.82			317.6	0.479	0.479	ng/L	
Hg2700-1	RN		SEQ-CCB6	1	8/12/16 22:39	14333-1.RAW	22:39	2.94			0.7	0.001	0.001	ng/L	

MethylMercury EPA1630	Worksh Method	CalibFa R:		Conc = (Area-2.230) OK,I Warnings 0.991936317	8:01:19	78.12906574 11.7871825	r D				
Sample/ID	Location			(ConcMeHg(ppt)	Rec%	RawData	RunEnd	P PeakMeHg (Ra	I Control (etf)	Flags	RunCount
Clean	Location	Dilute	0	0.000167819	110010	14250-1.RAW	1,507,007,00	0.111235469	cleandry	CT	1
WS	A1			0.000107010		14251-1.RAW		0	psample10	OK	1
SEQ-IBL1	AZ	1	0	0.00336503		14252-1.RAW		2.230445076	psample10	OK	1
SEQ-CAL1	A3	1	2.230445076	0.048732606	97.47	14253-1.RAW		34.53191288	psample10	OK	1
SEQ-CAL2	A4	1	2.230445076	0.210941727	105.47	14254-1.RAW		142.0491004	psample10	OK	1
SEQ-CAL3	A5	1	2.230445076	0.829192209	82.92	14255-1.RAW		551.8445076	psample10	CT	1
SEQ-CAL4	A6		2.230445076	1.981693579	99.08	14256-1.RAW		1315.757812	psample10	CT	1
SEQ-CAL5	A7	1	2.230445076	4.602401003	115.06	14257-1.RAW		3052.843182	psample10	CT	1
SEO-ICV1	A8		2.230445076	0.500052373	100.13	14258-1.RAW		333.6805161	psample10	CT	1
SEQ-ICV1	A9		2.230445076	0.008448363	0.00	14259-1.RAW		7.830279356	psample10	CT	1
F608273-BLK1	A10	1.25	2.230445076	0.005629873	0.00	14260-1.RAW		5.215767045	psample10	OK	1
F608273-BLK2	A11	1.25	2.230445076	0.007840569		14261-1.RAW		6.388020833	psample10	OK	1
F608273-BLK3	A12	1.25	2.230445076	0.000139921		14262-1.RAW		2.304640152	psample10	OK	1
	A13	1.25	2.230445076	0.641583942		14263-1.RAW		342.439678	psample10	CT	1
F608273-BS1	A14	1.25	2.230445076	0.880730393		14264-1.RAW		469.2505682	psample10	OK	1
F608273-BSD1	A15	1.25	2.230445076	0.141217653		14265-1.RAW		77,11316288	psample10	OK	1
F608273-DUP1	A16	1.25	2.230445076	0.915404202	91.54	14266-1.RAW		487.6368608	psample10	CT	1
F608273-MS1	A17		2.230445076	0.318418183	15.92	14267-1.RAW		171.0763258	psample10	CT	1
F608273-MS2 F608273-MSD1	A18	1.25	2.230445076	0.649728372	32.49	14268-1.RAW		346.7583807	psample10	CT	1
F608273-MSD2	A19		2.230445076	0.255498351	32.13	14269-1.RAW		137.7121686	psample10	CT	1
	A20	1.23	2.230445076	0.449343874	89.98	14270-1.RAW		300.0693655	psample10	CT	1
SEQ-CCV1	A21	1	2.230445076	0.005251309	0.00	14271-1.RAW		5.711174242	psample10	OK	1
SEQ-CCB1	B1		2.230445076	0.050874672	0.00	14272-1_RAW		29.20748106	psample10	CT	1
1607542-01	B2	1.25	2.230445076	0.063823915		14273-1.RAW		36.07400568	psample10	OK	1
1607542-03 1607542-04	B3	1.25	2.230445076	0.023723238		14274-1.RAW		14.81003788	psample10	CT	1
1607542-05	B4	1.25	2.230445076	0.032409851		14275-1.RAW		19.41624053	psample10	OK	1
1607542-06	B5	1.25	2.230445076	0.032703031		14276-1.RAW		23.11079545	psample10	ОК	1
1607542-07	B6	1.25	2.230445076	0.026824356		14277-1.RAW		16.45445076	psample10	OK	1
1607586-12	B7		2.230445076	0.020093109		14278-1.RAW		12.8851089	psample10	OK	1
1607586-19	B8	1.25	2.230445076	0.036272631		14279-1.RAW		21.46453598	psample10	CT	1
1607586-20	B9	1.25	2.230445076	0.012238209		14280-1.RAW		8.719933712	psample10	OK	1
1607586-21	B10		2.230445076	0.000185281		14281-1.RAW		2.328693182	psample10	OK	1
SEQ-CCV2	B11		2.230445076	0.599452047	120.04	14282-1.RAW		399.5656723	psample10	CT	1
SEQ-CCB2	B12		2.230445076	0.001459749	0.00	14283-1.RAW		3.198011364	psample10	OK	1
1607772-01	B13		2.230445076	0.030812235	0.00	14284-1.RAW		18.56908144	psample10	CT	1
1607772-02	B14		2.230445076	0.020674892		14285-1.RAW		13.19360795	psample10	CT	1
1607772-03	B15	1.25	2.230445076	0.043379485		14286-1.RAW		25.23304924	psample10	CT	1
1607772-04	B16	1.25	2.230445076	0.016405074		14287-1.RAW		10.92947443	psample10	OK	1
1607772-05	B17	1.25	2.230445076	0.018865922		14288-1.RAW		12.234375	psample10	OK:	1
1607772-06	B18	1.25	2.230445076	0.009753118		14289-1.RAW		7.40217803	psample10	CT	1
1607772-07	B19	1.25	2.230445076	0.017747359		14290-1.RAW		11.64124053	psample10	OK	1
1607586-04RE3	B20	1.25	2.230445076	0.109089519		14291-1.RAW		60.07675189	psample10	CT	1
1607805-01	B21		2.230445076	0.709619412		14292-1.RAW		378.5164773	psample10	CT	1
1607805-02	C1	1.25	2.230445076	0.144096433		14293-1.RAW		78.63967803	psample10	CT	1
SEQ-CCV3	C2		2.230445076	0.514768048	103.08	14294-1.RAW		343.434517	psample10	CT	1
SEQ-CCB3	C3		2.230445076	0.001987716	0.00	14295-1.RAW		3.547964015	psample10	OK	1
F608155-BLK1	C4	1	2.230445076	0.010419684	-,7107	14296-1.RAW		9.136931818	psample10	OK	1
F608155-BLK2	C5		2.230445076	0.016127705		14297-1.RAW		12.92038352	psample10	OK	1
F608155-BLK3	C6	1	2.230445076	0.013224209		14298-1.RAW		10.99585701	psample10	OK	1
F608155-BS1	C7		2.230445076	11,68475029		14299-1.RAW		776.7315814	psample10	OK	1

F608155-BSD1	C8	10	2.230445076	11.72590756		14300-1.RAW		779.4596117	psample10	OK.	1
F608155-DUP1	C9	1	2.230445076	0.026610287		14301-1.RAW		19.86856061	psample10	OK.	1
F608155-MS1	C10	10	2.230445076	9.706876491	970.69	14302-1.RAW		645.6320312	psample10	CT	1
F608155-MSD1	C11	10	2.230445076	10.19439506		14303-1.RAW		677.9462595	psample10	OK	1
F608155-MS2	C12	10	2.230445076	10.01114606	500.56	14304-1.RAW		665.7999527	psample10	CT	1
F608155-MSD2	C13	10	2.230445076	11.75060864		14305-1.RAW		781.096875	psample10	OK	1
SEQ-CCV4	C14	1	2.230445076	0.683528394	136.88	14306-1.RAW		455.2940578	psample10	CT	1
SEQ-CCB4	C15	1	2.230445076	0.004740701	0.00	14307-1.RAW		5.372727273	psample10	OK	1
SEQ-CCV5	B1	1	2.230445076	0.62117155	124.39	14308-1.RAW		413.9620265	psample10	CT	1
SEQ-CCV6	B2	1	2.230445076	0.618876491	123.93	14309-1.RAW		412.4407907	psample10	CT	1
1607782-15	C16	1	2.230445076	0.026906094		14310-1.RAW		20.06463068	psample10	OK	1
1607782-16	C17	1	2.230445076	0.071454825		14311-1.RAW		49.59289773	psample10	OK	1
1607782-17	C18	1	2.230445076	0.101240128		14312-1.RAW	18:58:34	69.33551136	psample10	OK	1
1607782-18	C19	1	2.230445076	0.050783219		14313-1.RAW		35.89112216	psample10	OK	1
1607782-19	C20	1	2.230445076	0.030110898		14314-1.RAW		22.18887311	psample10	OK	1
1607782-20	C21	1	2.230445076	0.053000844		14315-1.RAW		37.3610322	psample10	OK	1.
1607782-21	A1	1	2.230445076	0.052807223		14316-1.RAW		37.23269413	psample10	OK	1
1607783-01	A2	1	2.230445076	0.440032556		14317-1.RAW		293.8975379	psample10	CT	1
1607783-02	A3	1	2.230445076	0.079150383		14318-1.RAW		54.69375	psample10	OK	1
1607783-03	A4	1	2.230445076	0.061957208		14319-1.RAW		43.29758523	psample10	OK	1
SEO-CCV7	A5	1	2,230445076	0.43998791	88.11	14320-1.RAW		293.8679451	psample10	CT	1
SEQ-CCB5	A6	1	2.230445076	0.001017931	0.00	14321-1.RAW		2.905160985	psample10	CT	1.
1607783-04	A7	1	2.230445076	0.051792756		14322-1.RAW		36.56027462	psample10	OK	1
1607783-05	A8.	1	2.230445076	0.042557301		14323-1.RAW		30.43873106	psample10	CT	1
1607783-06	A9	1	2.230445076	0.168355424		14324-1.RAW		113.8215909	psample10	CT	1
1607783-07	A10	1	2.230445076	0.328919926		14325-1.RAW		220.2486742	psample10	CT	1
1607783-08	A11	1	2.230445076	0.041399574		14326-1.RAW		29.67135417	psample10	OK:	1
1607783-09	A12	1	2.230445076	0.02663386		14327-1,RAW		19.88418561	psample10	OK.	1
1607783-10	A13	1	2.230445076	0.027940455		14328-1.RAW		20.75023674	psample10	OK	1
1607783-11	A14	1	2.230445076	0.101853673		14329-1.RAW		69.7421875	psample10	OK	1
1607783-12	A15	1	2.230445076	0.04455141		14330-1.RAW		31,76048769	psample10	OK.	1
1607783-13	A16	1	2.230445076	0.026604001		14331-1.RAW		19.86439394	psample10	OK	1
SEQ-CCV8	A17	1	2.230445076	0.479148536	95.95	14332-1.RAW		319.8248106	psample10	CT	1
SEQ-CCB6	A18	1	2.230445076	0.001071113	0.00	14333-1.RAW	22:39:18	2.940411932	psample10	OK	1

Sample/ID Loc Clean NS A1 SEQ-IBL1 A2 SEQ-CAL1 A3 SEQ-CAL2 A4 SEQ-CAL3 A5 SEQ-CAL4 A6 SEQ-ICB1 A9 SEQ-ICB1 A9 F608273-BLK1 A10 F608273-BLK1 A11 F608273-BSD1 A14 F608273-BSD1 A14 F608273-BSD1 A14 F608273-MSD1 A16 F608273-MSD1 A16 F608273-MSD1 A16 F608273-MSD1 A16 F608273-MSD1 A16 F608273-MSD1 A16 F608273-MSD1 A16 F608273-MSD1 A16 F608273-MSD1 A16 F608273-MSD1 A16	2 3 4 4 5 6 6 7 8 8 9 9 10 1,2 11 1,2 12 12 1,2 13 1,2 14 1,2 15 1,2 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Blank 0 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	0.000151529 0.00336503 0.048732606 0.210941727 0.829192209 1.981693579 4.602401003 0.500052373 0.008448363 0.005629873 0.007840569	97.47 105.47 82.92 99.08 115.06 100.13 0.00	11.7871825 RawData 14250-1.RAW 14251-1.RAW 14252-1.RAW 14253-1.RAW 14254-1.RAW 14255-1.RAW 14256-1.RAW 14258-1.RAW 14259-1.RAW 14259-1.RAW	RunEnd 8:06:50 8:17:21 8;27:52 8:38;23 8:48:53 8:59:24 9:09:55 9:20:26 9:30:56 9:41:27	P PeakMeHg (Rc 0.100438372 0 2.230445076 34,53191288 142.0491004 551.8445076 1315.757812 3052.843182 333.6805161	f Control (etf) cleandry psample10 psample10 psample10 psample10 psample10 psample10 psample10 psample10 psample10	Flags CT OK OK OK OK CT CT CT	RunCount
Clean WS A1 SEQ-IBL1 A2 SEQ-CAL1 A3 SEQ-CAL2 A4 SEQ-CAL3 A5 SEQ-CAL4 A6 SEQ-CAL5 A7 SEQ-CAL5 A7 SEQ-ICB1 A9 F608273-BLK1 A10 F608273-BLK1 A11 F608273-BLK3 A12 F608273-BSD1 A14 F608273-BSD1 A14 F608273-BSD1 A15 F608273-MSD1 A16	1 2 2 3 3 4 4 5 5 6 6 6 7 7 8 8 9 9 11 1.2 1.2 1.2 1.3 1.2 1.4 1.2 1.5 1.2 1.6 1.2 1.6 1.2	0 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	0.000151529 0.00336503 0.048732606 0.210941727 0.829192209 1.981693579 4.602401003 0.500052373 0.008448363 0.005629873 0.007840569	97,47 105,47 82,92 99,08 115,06 100,13	14250-1,RAW 14251-1.RAW 14252-1.RAW 14253-1.RAW 14254-1.RAW 14255-1.RAW 14256-1.RAW 14257-1.RAW 14259-1.RAW	8:06:50 8:17:21 8:27:52 8:38:23 8:48:53 8:59:24 9:09:55 9:20:26	0.100438372 0 2.230445076 34.53191288 142.0491004 551.8445076 1315.757812 3052.843182	cleandry psample10 psample10 psample10 psample10 psample10 psample10 psample10	OK OK OK CT CT	
ASEQ-IBL1 A2 SEQ-CAL1 A3 SEQ-CAL2 A4 SEQ-CAL3 A5 SEQ-CAL4 A6 SEQ-CAL5 A7 SEQ-ICB1 A9 SEQ-ICB1 A9 F608273-BLK1 A10 F608273-BLK3 A12 F608273-BSD1 A14 F608273-BSD1 A14 F608273-BSD1 A15 F608273-MSD1 A16	2 3 4 4 5 6 6 7 8 8 9 9 10 1,2 11 1,2 12 12 1,2 13 1,2 14 1,2 15 1,2 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 5.230445076 5.230445076 5.230445076 5.230445076 5.230445076 5.230445076	0.00336503 0.048732606 0.210941727 0.829192209 1.981693579 4.602401003 0.500052373 0.008448363 0.005629873 0.007840569	105.47 82.92 99.08 115.06 100.13	14251-1.RAW 14252-1.RAW 14253-1.RAW 14254-1.RAW 14255-1.RAW 14256-1.RAW 14257-1.RAW 14257-1.RAW 14259-1.RAW	8:17:21 8;27:52 8:38:23 8:48:53 8:59:24 9:09:55 9:20:26 9:30:56	0 2.230445076 34.53191288 142.0491004 551.8445076 1315.757812 3052.843182	psample10 psample10 psample10 psample10 psample10 psample10 psample10	OK OK OK CT CT	
EQ-IBL1 A2 EQ-CAL1 A3 EQ-CAL1 A3 EQ-CAL2 A5 EQ-CAL3 A5 EQ-CAL4 A6 EQ-CAL5 A7 EQ-CAL5 A7 EQ-CAL5 A7 EQ-CAL5 A7 EQ-CAL7 A8 EQ-CB1 A9 EG08273-BLK1 A12 EG08273-BLK2 A11 EG08273-BS1 A12 EG08273-BS1 A12 EG08273-BS1 A14 EG08273-BS1 A16 EG08273-B	2 3 4 4 5 6 6 7 8 8 9 9 10 1,2 11 1,2 12 12 1,2 13 1,2 14 1,2 15 1,2 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 5.2.230445076 5.2.230445076 5.2.230445076	0.048732606 0.210941727 0.829192209 1.981693579 4.602401003 0.500052373 0.008448363 0.005629873 0.007840569	105.47 82.92 99.08 115.06 100.13	14252-1.RAW 14253-1.RAW 14254-1.RAW 14255-1.RAW 14256-1.RAW 14257-1.RAW 14258-1.RAW 14259-1.RAW	8;27:52 8:38;23 8:48:53 8:59:24 9:09:55 9:20:26 9:30:56	2.230445076 34.53191288 142.0491004 551.8445076 1315.757812 3052.843182	psample10 psample10 psample10 psample10 psample10	OK OK CT CT	
EQ-CAL1 A3 EQ-CAL2 A4 EQ-CAL3 A5 EQ-CAL4 A6 EQ-CAL5 A7 EQ-ICB1 A9 608273-BLK1 A10 608273-BLK3 A12 608273-BS1 A13 608273-BS1 A13 608273-BS1 A14 608273-MS1 A15 608273-MS1 A16	3 4 4 5 5 6 6 7 7 8 8 9 9 11 1.2 1.2 1.2 1.3 1.2 1.5 1.2 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 5.2.230445076 5.2.230445076 5.2.230445076	0.048732606 0.210941727 0.829192209 1.981693579 4.602401003 0.500052373 0.008448363 0.005629873 0.007840569	105.47 82.92 99.08 115.06 100.13	14253-1.RAW 14254-1.RAW 14255-1.RAW 14256-1.RAW 14257-1.RAW 14258-1.RAW 14259-1.RAW	8:38:23 8:48:53 8:59:24 9:09:55 9:20:26 9:30:56	34.53191288 142.0491004 551.8445076 1315.757812 3052.843182	psample10 psample10 psample10 psample10	OK CT CT CT	
EQ-CAL2 A4 EQ-CAL3 A5 EQ-CAL4 A6 EQ-CAL5 A7 EQ-ICV1 A8 EQ-ICB1 A9 608273-BLK1 A1C 608273-BLK3 A12 608273-BS1 A13 608273-BS1 A13 608273-BS1 A14 608273-MS1 A16	4 5 5 6 6 7 7 8 8 9 9 110 1.2 12 1.2 12 1.2 13 1.2 14 1.2 15 1.2 16 1.2 16 1.2	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	0.210941727 0.829192209 1.981693579 4.602401003 0.500052373 0.008448363 0.005629873 0.007840569	105.47 82.92 99.08 115.06 100.13	14254-1.RAW 14255-1.RAW 14256-1.RAW 14257-1.RAW 14258-1.RAW 14259-1.RAW	8:48:53 8:59:24 9:09:55 9:20:26 9:30:56	142.0491004 551.8445076 1315.757812 3052.843182	psample10 psample10 psample10 psample10	CT CT CT	
Q-CAL3 A5 Q-CAL4 A6 Q-CAL5 A7 Q-ICVI A8 Q-ICVI A8 Q-ICVI A9 508273-BLK1 A10 508273-BLK3 A11 508273-BLK3 A12 508273-BLK3 A12 508273-BLX A12 508273-BSD1 A14 508273-MS1 A16	5 6 7 8 8 8 9 1.10 1.2 1.2 1.2 1.2 1.3 1.2 1.5 1.2 1.5 1.2 1.6 1.2 1.6 1.2	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 5.2.230445076 5.2.230445076 5.2.230445076 5.2.230445076	0.829192209 1.981693579 4.602401003 0.50052373 0.008448363 0.005629873 0.007840569	82.92 99.08 115.06 100.13	14255-1.RAW 14256-1.RAW 14257-1.RAW 14258-1.RAW 14259-1.RAW	8:59:24 9:09:55 9:20:26 9:30:56	551.8445076 1315.757812 3052.843182	psample10 psample10 psample10	CT CT	
EQ-CAL4 A6 EQ-CAL5 A7 EQ-ICVI A8 EQ-ICB1 A9 508273-BLK1 A10 508273-BLK2 A11 508273-BLK3 A12 508273-BS1 A16 508273-BS1 A16 508273-MS1 A16 508273-MS2 A17 508273-MS2 A17 508273-MS2 A17 508273-MS2 A17 508273-MS0 A16 508273-MS0 A16	6 7 8 9 9 10 1.2 11 1.2 1.2 13 1.2 14 1.2 15 1.2 16 1.2	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	1,981693579 4,602401003 0,500052373 0,008448363 0,005629873 0,007840569	99.08 115.06 100.13	14256-1.RAW 14257-1.RAW 14258-1.RAW 14259-1.RAW	9:09:55 9:20:26 9:30:56	1315.757812 3052.843182	psample10 psample10	CT	
CC-CALS A7 CQ-ICV1 A8 CQ-ICV1 A8 CQ-ICB1 A9 SOB273-BLK1 A1 SOB273-BLK2 A11 SOB273-BLK3 A12 SOB273-BSD1 A14 SOB273-BSD1 A14 SOB273-MS1 A15 SOB273-MS1 A15 SOB273-MS2 A15 SOB273-MS2 A16 SOB273-MS2 A16 SOB273-MS1 A16	7 8 9 10 1.2 11 1.2 12 1.2 13 1.2 14 1.2 15 1.2 16 1.2	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	4.602401003 0.500052373 0.008448363 0.005629873 0.007840569	115.06 100.13	14257-1.RAW 14258-1.RAW 14259-1.RAW	9:20:26 9:30:56	3052.843182	psample10		
CQ-ICV1 A8 EQ-ICB1 A9 508273-BLK1 A11 508273-BLK3 A12 508273-BSD1 A14 508273-BSD1 A14 508273-BSD1 A15 508273-MSD A16	8 9 1.2 1.2 1.2 1.2 1.3 1.2 1.4 1.2 1.5 1.2 1.6 1.2	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	0.500052373 0.008448363 0.005629873 0.007840569	100.13	14258-1.RAW 14259-1.RAW	9:30:56		A COLUMN TO THE PARTY OF THE PA	CT	
Q-ICB1 A9 508273-BLK1 A10 508273-BLK2 A10 508273-BLK3 A12 508273-BS1 A13 508273-BS1 A14 508273-DIP1 A15 508273-MS1 A16 508273-MS2 A16 508273-MS2 A16 508273-MS2 A16 508273-MS0 A16 508273-MS0 A16	9 10 1.2 11 1.2 12 1.2 13 1.2 14 1.2 15 1.2 16 1.2	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	0.008448363 0.005629873 0.007840569		14259-1.RAW					
\$10,000 10	10 1.2 11 1.2 12 1.2 13 1.2 14 1.2 15 1.2 16 1.2	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	0.005629873 0.007840569	0.00			7.830279356	psample10	CT	
508273-BLK2 A11 508273-BLK3 A12 508273-BS1 A13 508273-BSD1 A14 508273-DUP1 A15 508273-MS1 A16 508273-MS2 A17 508273-MS2 A17 508273-MS0 A18 508273-MS0 A18	11 1.2 12 1.2 13 1.2 14 1.2 15 1.2 16 1.2	2.230445076 2.230445076 2.230445076 2.230445076	0.007840569		1420U-1-RAVV	9:51:58	5.215767045	psample10	ОК	
508273-BLK3 A12 508273-BSD1 A15 508273-BDD1 A15 508273-MS1 A16 508273-MS1 A16 508273-MSD A16 508273-MSD A16 508273-MSD A16	12 1.2 13 1.2 14 1.2 15 1.2 16 1.2	2.230445076 2.230445076 2.230445076			14261-1.RAW	10:02:29	6.388020833	psample10	OK	
508273-BS1 A13 508273-BSD1 A14 508273-DUP1 A15 508273-MS1 A16 508273-MS2 A17 508273-MSD1 A18 508273-MSD2 A15	13 1.2 14 1.2 15 1.2 16 1.2	2.230445076 2.230445076	0.000139921			10:12:59	2,304640152	psample10	OK	
508273-BSD1 A14 508273-DUP1 A15 508273-MS1 A16 508273-MS2 A17 508273-MSD1 A16 508273-MSD1 A16	14 1.2 15 1.2 16 1.2	2.230445076	and the second second second second		14262-1.RAW	10:12:39	342.439678	psample10	CT	
08273-DUP1 A15 608273-MS1 A16 608273-MS2 A17 608273-MSD1 A18 608273-MSD1 A18	15 1.2 16 1.2				14263-1.RAW	10:34:01	469.2505682	psample10	OK	
508273-MS1 A16 508273-MS2 A17 508273-MSD1 A18 508273-MSD2 A19	16 1.2				14264-1 RAW		77.11567235	psample10	OK	
508273-MS2 A17 508273-MSD1 A18 508273-MSD2 A19				1	14265-1.RAW	10:44:32	487.6368608	psample10	CT	
508273-MSD1 A18 508273-MSD2 A19				91,54	14266-1.RAW	10;55:02		psample10	CT	
508273-MSD2 A19	17 1.2			15.92	14267-1.RAW	11:05:33	171.0763258	psample10 psample10	CT	
	18 1.2			32.49	14268-1.RAW	11:16:04	346.7583807	psample10	CT	
	19 1.2	2.230445076			14269-1.RAW	11:26:35	137.7121686		CT	
Q-CCV1 A20	20	2.230445076		89.98	14270-1.RAW	11:37:05	300.0693655	psample10	OK.	
Q-CCB1 A21	21	2.230445076		0.00	14271-1.RAW	11:47:36	5.711174242	psample10	CT	
507542-01 BI	1 1.2	5 2.230445076			14272-1.RAW	11:58:07	29.20748106	psample10	OK.	
507542-03 B2	2 1.2	5 2.230445076	0.06382003		14273-1,RAW	12:08:38	36.07194602	psample10		
507542-04 B3	3 1.2	2.230445076	0.023723238		14274-1.RAW	12:19:08	14.81003788	psample10	CT	
507542-05 B4	4 1.2	5 2.230445076	0.032409851		14275-1.RAW	12:29:39	19,41624053	psample10	OK	
507542-06 B5	5 1.2	5 2.230445076	0.039166724		14276-1.RAW	12:40:10	22.9991714	psample10	OK	
507542-07 B6	6 1.2	5 2.230445076	0.026824356		14277-1.RAW	12:50:40	16,45445076	psample10	OK	
607586-12 B7	7 1.2	5 2.230445076	0.020093109		14278-1.RAW	13:01:11	12.8851089	psample10	OK	
607586-19 B8	8 1.2	5 2.230445076	0.036240307		14279-1.RAW	13:11:42	21.44739583	psample10	CT	
607586-20 B9	9 1.2	5 2.230445076	0.012238209		14280-1.RAW	13:22:13	8.719933712	psample10	OK	
607586-21 B10		5 2.230445076	0.000185281		14281-1.RAW	13:32:43	2.328693182	psample10	OK	
EQ-CCV2 B1:		1 2.230445076		120,04	14282-1.RAW	13:43:14	399.5656723	psample10	СТ	
EQ-CCB2 B13		1 2.230445076	The second secon	0.00	14283-1.RAW	13:53:45	3.198011364	psample10	OK	
507772-01 B1		5 2.230445076	0.030891214		14284-1.RAW	14:04:16	18.61096117	psample10	CT	
507772-02 B14		5 2.230445076			14285-1.RAW	14:14:46	13.19360795	psample10	CT	
507772-03 B1					14286-1.RAW	14:25:17	25.23304924	psample10	CT	
607772-04 B16	and the same				14287-1,RAW	14:35:48	10.92947443	psample10	OK	
607772-05 B1		5 2.230445076			14288-1.RAW	14:46:19	12.234375	psample10	OK	
607772-06 B1					14289-1.RAW	14:56:49	7.40217803	psample10	CT	
607772-07 B1	4.6				14290-1.RAW	15:07:20	11.64124053	psample10	CT	
607586-04RE3 B2					14291-1.RAW	15:17:51	60.07675189	psample10	CT	
607805-01 B2	39				14292-1.RAW	15:28:22	378.5164773	psample10	CT	
876 527 50		5 2,230445076			14293-1.RAW	15:38:52	78.64528883	psample10	CT	
8,90 F.F.9 F.T.		1 2.230445076		103.08	14294-1.RAW	15:49:23	343.434517	psample10	CT	
-		1 2.230445076			14295-1,RAW	15:59:54		psample10	OK	
EQ-CCB3 C3 608155-BLK1 C4		1 2.230445076			14296-1.RAW	16:10:25		psample10	OK	
******		1 2.230445076			14297-1.RAW	16:20:55		psample10	OK	
608155-BLK2 C5					14298-1.RAW	16:31:25		psample10	OK	
608155-BLK3 C6 608155-BS1 C7		1 2.230445076 0 2.230445076			14299-1.RAW	16:41:55		psample10	OK	

F608155-BSD1	C8	10	2.230445076	11.72590756		14300-1.RAW	16:52:26	779.4596117	psample10	OK	1
F608155-DUP1	C9	1	2.230445076	0.026610287		14301-1.RAW	17:02:56	19.86856061	psample10	OK	1
F608155-MS1	C10	10	2.230445076	9.706876491	970.69	14302-1.RAW	17:13:27	645.6320312	psample10	CT	1
F608155-MSD1	C11	10	2.230445076	10.19439506	2000	14303-1.RAW	17:23:58	677.9462595	psample10	OK	1
F608155-MS2	C12	10	2.230445076	10.01114606	500.56	14304-1.RAW	17:34:28	665.7999527	psample10	CT	1
F608155-MSD2	C13	10	2.230445076	11.75060864		14305-1.RAW	17:44:59	781.096875	psample10	OK	1
SEQ-CCV4	C14	1	2.230445076	0.683528394	136.88	14306-1.RAW	17:55:30	455.2940578	psample10	CT	1
SEQ-CCB4	C15	1	2.230445076	0.004740701	0.00	14307-1.RAW	18:06:00	5.372727273	psample10	OK	1
SEO-CCV5	B1	1	2.230445076	0.62117155	124.39	14308-1.RAW	18:16:31	413.9620265	psample10	CT	1
SEO-CCV6	B2	1	2.230445076	0.618876491	123.93	14309-1.RAW	18:27:02	412.4407907	psample10	CT	1
1607782-15	C16	1	2.230445076	0.026906094		14310-1.RAW	18:37:32	20.06463068	psample10	OK	1
1607782-16	C17	1	2.230445076	0.071454825		14311-1.RAW	18:48:03	49.59289773	psample10	OK	1
1607782-17	C18	1	2,230445076	0.101240128		14312-1.RAW	18:58:34	69.33551136	psample10	OK	1
1607782-18	C19	1	2.230445076	0.050783219		14313-1.RAW	19:09:04	35.89112216	psample10	OK.	1
1607782-19	C20	1	2.230445076	0.030110898		14314-1.RAW	19:19:35	22.18887311	psample10	OK.	1
1607782-20	C21	1	2.230445076	0.053000844		14315-1.RAW	19:30:06	37.3610322	psample10	OK	1
1607782-21	A1	1	2.230445076	0.052807223		14316-1.RAW	19:40:36	37.23269413	psample10	OK	1
1607783-01	A2	1	2.230445076	0.440032556		14317-1.RAW	19:51:07	293.8975379	psample10	CT	1
1607783-02	A3	1	2.230445076	0.079150383		14318-1.RAW	20:01:38	54.69375	psample10	OK	1
1607783-03	A4	1	2.230445076	0.061957208		14319-1.RAW	20:12:08	43.29758523	psample10	OK	1
SEQ-CCV7	A5	1	2.230445076	0.43998791	88.11	14320-1.RAW	20:22:39	293.8679451	psample10	CT	1
SEQ-CCB5	A6	1	2.230445076	0.001017931	0.00	14321-1.RAW	20:33:10	2.905160985	psample10	CT	1
1607783-04	A7	1	2.230445076	0.051792756		14322-1.RAW	20:43:40	36.56027462	psample10	OK	1
1607783-05	A8	1	2.230445076	0.042557301		14323-1.RAW	20:54:11	30.43873106	psample10	CT	1
1607783-06	A9	1	2.230445076	0.168355424		14324-1.RAW	21:04:42	113.8215909	psample10	CT	1
1607783-07	A10	1	2.230445076	0.328919926		14325-1.RAW	21:15:12	220.2486742	psample10	CT	1
1607783-08	A11	1	2.230445076	0.041399574		14326-1.RAW	21:25:43	29.67135417	psample10	OK.	1
1607783-09	A12	1	2.230445076	0.026638968		14327-1.RAW	21:36:14	19.88757102	psample10	OK.	1
1607783-10	A13	1	2.230445076	0.027940455		14328-1.RAW	21:46:45	20.75023674	psample10	OK	1
1607783-11	A14	1	2.230445076	0.101853673		14329-1.RAW	21:57:15	69.7421875	psample10	OK	1
1607783-12	A15	1	2.230445076	0.04455141		14330-1.RAW	22:07:46	31.76048769	psample10	OK	1
1607783-13	A16	1	2.230445076	0.026604001		14331-1.RAW	22:18:17	19.86439394	psample10	OK	1
SEQ-CCV8	A17	1	2.230445076	0.479148536	95.95	14332-1.RAW	22:28:47	319.8248106	psample10	CT	1
SEQ-CCB6	A18	1	2.230445076	0.001069149	0.00	14333-1.RAW	22:39:18	2.939109848	psample10	OK	1

Failing Data Report - 6H12010

Sample ID	Analysis	Result	MRL		True Value		% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
-	MHg-CVAFS-S-MeClExt	0.684	0.201		0.50049	ng/L	137	67.00	133.00			PASS-OVER	FAIL-CCV	DNR
6H12010-CCV4	Mile-C AL 3-3-MCCILAL	0.00	0,000											

Analyst Reviewed By

8/15/16 Date

Peer Reviewed By

Date

ANALYSIS SEQUENCE

6H12010

nstrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/12/2016

ab Number	Analysis	Order	STD ID	ISTD ID	Comments
H12010-IBL1	QC	1			
H12010-CAL1	QC	2	1604163		
H12010-CAL2	QC	3	1604164		
6H12010-CAL3	QC	4	1604165	1	
5H12010-CAL4	QC	5	1604166		
H12010-CAL5	QC	6	1604167		
5H12010-ICV1	QC	7	1603001		
6H12010-ICB1	QC	8			
5H12010-CCV1	QC	9	1603001		
5H12010-CCB1	QC	10			
5H12010-CCV2	QC	11	1603001		
6H12010-CCB2	QC	12			
6H12010-CCV3	QC	13	1603001		
6H12010-CCB3	QC ·	14			
F608155-BLK1	QC	15			
F608155-BLK2	QC	16			
F608155-BLK3	QC	17			
F608155-BS1	QC	18			
F608155-BSD1	QC	19			
F608155-DUP1	QC	20			
F608155-MS1	QC	21			
F608155-MSD1	QC	22			
F608155-MS2	QC	23			
F608155-MSD2	QC	24		1-1-17	
6H12010-CCV4	QC	25	1603001		
6H12010-CCB4	QC	26			
6H12010-CCV5	QC	27	1603001		
6H12010-CCV6	QC	28	1603001		
1607782-15	MHg-CVAFS-S-MeCIExt	29			
1607782-16	MHg-CVAFS-S-MeClExt	30			
1607782-17	MHg-CVAFS-S-MeClExt	31			
1607782-18	MHg-CVAFS-S-MeClExt	32			
1607782-19	MHg-CVAFS-S-MeClExt	33			
1607782-20	MHg-CVAFS-S-MeCIExt	34		7	
1607782-21	MHg-CVAFS-S-MeClExt	35			

Due Date: 8/24/2016 Page 1 of 2

ANALYSIS SEQUENCE

6H12010

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/12/2016

_ab Number	Analysis	Order	STD ID	ISTD ID	Comments
1607783-01	MHg-CVAFS-S-MeClExt	36			
1607783-02	MHg-CVAFS-S-MeClExt	37			
1607783-03	MHg-CVAFS-S-MeClExt	38			
6H12010-CCV7	QC	39	1603001		
6H12010-CCB5	QC	40			
1607783-04	MHg-CVAFS-S-MeClExt	41		(m-1)	
1607783-05	MHg-CVAFS-S-MeClExt	42			
1607783-06	MHg-CVAFS-S-MeClExt	43			
1607783-07	MHg-CVAFS-S-MeClExt	44			
1607783-08	MHg-CVAFS-S-MeClExt	45			
1607783-09	MHg-CVAFS-S-MeClExt	46			
1607783-10	MHg-CVAFS-S-MeClExt	47			
1607783-11	MHg-CVAFS-S-MeClExt	48			
1607783-12	MHg-CVAFS-S-MeClExt	49			
1607783-13	MHg-CVAFS-S-MeClExt	50			
6H12010-CCV8	QC	51	1603001		
6H12010-CCB6	QC	52			

Samples Loaded By

Date

Data Processed By

Data

Due Date: 8/24/2016

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared	: 8/	12/	201	6
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Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608155-BLK1	Blank	0.5	250					
F608155-BLK2	Blank	0.5	250					
F608155-BLK3	Blank	0.5	250					
F608155-BS1	Blank Spike	0.5	250	1506872	25			
F608155-BSD1	Blank Spike Dup	0.5	250	1506872	25			
F608155-DUP1	Duplicate [1607782-15]	0.542	250					
F608155-MS1	Matrix Spike [1607782-16]	0.584	250	1506872	25			
F608155-MS2	Matrix Spike [1607782-15]	0.542	250	1506872	25			
F608155-MSD1	Matrix Spike Dup [1607782-16]	0.58	250	1506872	25			/ 5
F608155-MSD2	Matrix Spike Dup [1607782-15]	0.582	250	1506872	25			

Standard ID(s):	Description:	Expiration:	Reagent ID(s):	Description:	Expiration:
1506872	MHg New Primary 100 ng/mL spike	03-Nov-16 00:00	1602382	Dichloromethane	05-May-19 00:00
			1602604	Acetate Buffer	15-Nov-16 00:00
			1602944	Ethylating Agent (For Methyl Mercury Analysis)	30-Nov-16 00:00
			1603399	Boiling Chips for AFS prep	01-Jun-17 00:00
			1603749	Ethylating Agent (For Methyl Mercury Analysis)	09-Jan-17 00:00

1604262

1604379

Acid Bromide 02-Sep-16 00:00 CuSO4 16-Oct-16 00:00

Page 354 c

e Date: 8/24/2016

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607782-15	WP2-4C (25-30 cm.)	0.585	250	120				
1607782-16	WP2-4C (5-10 cm.)	0.539	250		-	8		
1607782-17	WP2-1C (0-5 cm.)	0.535	250		-	*		
1607782-18	WP2-1C (15-20 cm.)	0.532	250	4	-	4		
1607782-19	WP2-1C (20-25 cm.)	0.537	250		3	-		
1607782-20	WP2-1C (5-10 cm.)	0.556	250	1.4	-			
1607782-21	WP2-1C (10-15 cm.)	0.574	250	-	-	*		
1607783-01	WP2-1B (0-5 cm.)	0.542	250			*		
1607783-02	WP2-1B (10-15 cm.)	0.556	250	13	10	- 2		
1607783-03	WP2-1B (15-20 cm.)	0.59	250	14.	1	-		
1607783-04	WP2-1B (20-25 cm.)	0.522	250	-	1.00	9		
1607783-05	WP2-1B (25-30 cm.)	0.533	250	-		•		
1607783-06	WP2-1B (5-10 cm.)	0.543	250	(R)	18.0	-		
1607783-07	WP2-4B (0-5 cm.)	0.535	250		-			
1607783-08	WP2-4B (10-15 cm.)	0.569	250	-	7.	-		
1607783-09	WP2-4B (15-20 cm.)	0.546	250	100	-	-		
1607783-10	WP2-4B (20-25 cm.)	0.589	250		-	2		
P age ¹⁷⁸³⁻¹¹	WP2-4B (25-30 cm.)	0.584	250	33.7		4.1		
φ ω ₇₇₈₃₋₁₂	WP2-4B (30-35 cm.)	0.564	250	14"	-	4		
		_		-				

Prepared: 8/12/2016

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment	Prepared using: Hg Aquatic/Solids - EFGS-045 MeC12 Extraction for Methyl Hg	Prepared: 8/12/2016
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0.543 WP2-4B (35-40 cm.) 1607783-13 250

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F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 8/12/2016

Sab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608155-BLK1	Blank	0.5	250					
F608155-BLK2	Blank	0.5	250					
F608155-BLK3	Blank	0.5	250					
F608155-BS1	Blank Spike	0.5	250	1506872	25			
F608155-BSD1	Blank Spike Dup	0.5	2.50	1506872	25	1		
F608155-DUP1	Duplicate [1607782-15]	0.542	250					
F608155-MS1	Matrix Spike [1607782-16]	0.584	250	1506872	2.5			
F608155-MS2	Matrix Spike [1602782-15]	0.542	250	1506872	25			
F608155-MSD1	Matrix Spike Dup [1607782-16]	0.58	250	1506872	25			
F608155-MSD2	Matrix Spike Dup [1607782-15]	0.582	250	1506872	25			

Standard ID(s): 1506872

Description:

MHg New Primary 100 ng/mL spike

Expiration 03-Nov-16 00:00

Reagent ID(s):	Description:	Expiration:
1600476	Acetate Buffer	26-Jul-16 00:00
1602382	Dichloromethane	05-May-19 00:00
1602604	Acetate Buffer	15-Nov-16 00:00
1602944	Ethylating Agent (For Methyl Mercury Analysis)	30-Nov-16 00:00
1603399	Boiling Chips for AFS prep	01-Jun-17 00:00
1603749	Ethylating Agent (For Methyl Mercury Analysis)	09-Jan-17 00:00
1604262	Acid Bromide	02-Sep-16 00:00
1604379	CuSO4	16-Oct-16 00:00

2H 8/15/12

Page 357 of 463 ne Date: 8/24/2016

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F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 8/12/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
607782-15	WP2-4C (25-30 cm.)	0.585	250		- ¥	+		
607782-16	WP2-4C (5-10 cm.)	0.539	250	-	-	9		
607782-17	WP2-1C (0=5 cm.)	0.535	250		* 1	7		
607782-18	WP2-1C (15-20 cm.)	0.532	250	1.3	(-/	7		
607782-19	WP2-1C (20-25 cm.)	0.537	250	in.	197	(3)		
607782-20	WP2-1C (5-10 cm.)	0.556	250	-	•	1		
1607782-21	WP2-1C (10-15 cm.)	0.574	250	1	-	12		
607783-01	WP2-1B (0-5 cm.)	0.542	250	*	/	1		
607783-02	WP2-1B (10-15 cm.)	0.556	250	1.	*			
1607783-03	WP2-1B (15-20 cm.)	0.59	250	Ŧ	100	-	JH8115/16	
1607783-04	WP2-1B (20-25 cm.)	0.522	250	(4)		7		
1607783-05	WP2-1B (25-30 cm.)	0.533	250	-	-			
1607783-06	WP2-1B (5-10 cm.)	0.543	250	-	1-11	F		
1607783-07	WP2-4B (0-5 cm.)	0.535	250	-		- 3		
1607783-08	WP2-4B (10-15 cm.)	0.569	250	-				
1607783-09	WP2-4B (15-20 cm.)	0.546	250		-			
1607783-10	WP2-4B (20-25 cm.)	0.589	250	-	-	•		
7783-11	WP2-4B (25-30 cm.)	0.584	250	-	3			
ω 358 7783-12	WP2-4B (30-35 cm.)	0.564	250	-	1	*		

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 8/12/2016

1607783-13

WP2-4B (35-40 cm.)

Page 359 of 463 re Date: 8/24/2016

Page 3 of 3

N 8/12/16 2700-1 6HZ+
6H12021
M 8/12/16

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 8/12/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608155-BLK1	Blank	0.5	250					14
F608155-BLK2	Blank	0.5	250					10
F608155-BLK3	Blank	0.5	250					10
F608155-BS1	Blank Spike	0.5	250	1506872	25			10 x
F608155-BSD1	Blank Spike Dup	0.5	250	1506872	25			102
F608155-DUP1	Duplicate [1607782-15]	0.542	250					1 a
F608155-MS1	Matrix Spike [1607782-16]	0.584	250	1506872	25			10 x
F608155-MS2	Matrix Spike [1607782-15]	0.542	250	1506872	25			10×
F608155-MSD1	Matrix Spike Dup [1607782-16]	0.58	250	1506872	25			102
F608155-MSD2	Matrix Spike Dup [1607782-15]	0.582	250	1506872	25			10 0

Standard ID(s): 1506872

MHg New Primary 100 ng/mL spike

Expiration:

03-Nov-16 00:00

Reagent ID(s):

1603399

1602382

Dichloromethane Boiling Chips for AFS prep

Acid Bromide 1604262 CuSO4 1604379

Expiration: Description: 05-May-19 00:00

01-Jun-17 00:00

02-Sep-16 00:00 16-Oct-16 00:00

Date: 8/24/2016

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 8/12/2016

ab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
607782-15	WP2-4C (25-30 cm.)	0.585	250	-	7	*		1 30
607782-16	WP2-4C (5-10 cm.)	0.539	250	1.0		*		12
607782-17	WP2-1C (0-5 cm.)	0.535	250		191	-		10
607782-18	WP2-1C (15-20 cm.)	0.532	250	-		4		12
607782-19	WP2-1C (20-25 cm.)	0.537	250	1.50		-		100
607782-20	WP2-1C (5-10 cm.)	0.556	250		-			12
607782-21	WP2-1C (10-15 cm.)	0.574	250	1	14	H		14
607783-01	WP2-1B (0-5 cm.)	0.542	250	110	-	÷		14
607783-02	WP2-1B (10-15 cm.)	0.556	250	1		7.1		12
607783-03	WP2-1B (15-20 cm.)	0.59	250	-		14		12
607783-04	WP2-1B (20-25 cm.)	0.522	250			-		12
607783-05	WP2-1B (25-30 cm.)	0.533	250					12
607783-06	WP2-1B (5-10 cm.)	0.543	250	-	1-1	40		1 ×
607783-07	WP2-4B (0-5 cm.)	0.535	250		187	4		12
1607783-08	WP2-4B (10-15 cm.)	0.569	250		1.	U		1×
1607783-09	WP2-4B (15-20 cm.)	0.546	250	-		-		1x
160 <mark>7</mark> 783-10	WP2-4B (20-25 cm.)	0.589	250	-	-	-		1×
ည် 200 0 7783-11	WP2-4B (25-30 cm.)	0.584	250	1		F		14
Φ ω 00,7783-12	WP2-4B (30-35 cm.)	0.564	250	+	12	[P+1		14

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment	Prepared usin	g: Hg Aquatic/S	olids - EF	GS-045	MeCl2	Extraction	for Methyl Hg		Prepared: 8/12/2016
1607783-13	WP2-4B (35-40 cm.)	0.543	250	-		-		18	

Page 362 of 463 e Date: 8/24/2016

Technician: Dwfw Batch#: F608155 Date: 8 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		(initial and date)		
EFGS-045 Sediments - Methyl Mercury - KBr/CH ₂ Cl ₂ : Heat Block 45°C (nitrogen purge for 30 minutes). Vial Type: Glass Te O O S I I I O S I I I I I I I I I	1			Salarine Com	*
EFGS-045 Sediments - Methyl Mercury - KBr/CH ₂ Cl ₂ : Heat Block 45°C (nitrogen purge for 30 minutes). Vial Type: ☐ Glass ☑ Te	1st Time out: 10:35 2nd Time in: 10:40 Actual To Actua	Temp. (raw): 49.4/50.1 °C v emp. (raw): 49.6/50.0 °C v Temp. (raw): 49.4/50.1 °C v emp. (raw): 49.4/50.0 °C v Temp. (raw): 49.8/50.2 °C	w/ CF: 50.0 50.4°C i/ CF: <u>T0.2/50.6</u> °C w/ CF: <u>50.4/50.5</u> °C i/ CF: <u>50.3/50.6</u> °C 507 w/ CF: <u>50.2/50.6</u> °C 8(12)	ibnd	: 150672)
	Balance#: 10:05 8/12/16 Cali	hrated? Wes No		or 30 minutes). Viai Type: ☐ Glass ☒ Terio
0.7 - 1.0				m 20 minutos	Version Delice Base

Vial #	Sample ID Number	Sample Size □mL ⊠g	Vial #	Sample ID Number	Sample Size mL 2g	Comments
1	F608155-BLK1	0.499	23	1607783-06	11.543	weigh all sample on 8/5/16
2	F608155-BLK2	0.508	24	1607783-07	0535	on 8/5/16
3	F608155-BLK3	19-498	25	1607783-08	0-569	Add Add Haras
4	F608155-BS1	0.530	26	1607783-09	0-546	on 8/12/16 purge samples
5	F608155-BSD1	0.537	27	1607783-10	0.589	on Hillib
6	1607782-15	0-585	28	1607783-11	0.584	Thermometer
7	F608155-DUP1(1607782-15)	0.542	29	1607783-12	0.564	1404/10 15 unit 10
8	F608155-MS1(1607782-15)	0.584	30	1607783-13	0547	1404/8012
9	F608155-MSD1(1607782-15)	0.580	31		7	
10	1607782-16	0-539	32			stainies stee
11	F608155-MS2(1607782-16)	0.542	33			4: 7 ime in 11:5
12	F608155-MSD2(1607782-16)	0.582	34	/		Actual Teop 49.7/ Por
13	1607782-17	0535	35		8-12-16	49.7/ 8001 4503/ 50.7
14	1607782-18	0-532	36		04	state L.
15	1607782-19	0.537	37			-ime OM 1201
16	1607782-20	0.556	38			Actual Tempo
17	1607782-21	0.574	39			49.7/50.1
18	1607783-01	0-542	40			50.2/ 50.6
19	1607783-02	0.556	41			8/12/16
20	1607783-03	0:590	42			94
21	1607783-04	0.522	43			
22	1607783-05	12-537	44			

Eurofins Frontier Global Sciences / Mercury Sample Digestions (LOG-HG-013.13) / Effective 08/03/16 QA2016-124

Verified By:

**Transport of the control of t

Page 4 of 14

Failing Data Report - 6H12011

raining Data	Keport officer											DDD	Over Cal	Failure	Qualifier
Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cai	, and	
	W 61/	0.968	0.050	0.704		1.0010	ng/L	96.7	70.00	130.00	31.6	25.00	PASS-OVER	FAIL-BSD (RPD)	OR-07
F608273-BSD1	MHg-CVAFS-W-Dist	0.908	0.030		- 200	911191			_		98.7	35.00	PASS-OVER	FAIL-DUP	QR-04
F608273-DUP1	MHg-CVAFS-W-Dist	0.151	0.050	0.051	0.051		ng/L	- 12						FAIL-MS	
wy	MHg-CVAFS-W-Dist	0.347	0.050		0.029	1,0010	ng/L	31.7	65.00	130.00			PASS-OVER	FAIL-WIS	GM-07
F608273-MS2		0.277	0.050	0.347	0.029	1.0010	ng/L	24.8	65.00	130.00	22.3	35.00	PASS-OVER	FAIL-MSD (Rec.)	QM-07
F608273-MSD2	MHg-CVAFS-W-Dist	0.277	0.050	0.347	0.027			125	67.00	122.00			PASS-OVER	FAIL-CCV	DNR
6H12011-CCV4	MHg-CVAFS-W-Dist	0.684	0.045			0.50049	ng/L	137	67.00	133.00			11100 0 1 411	71007	1))
01112011															

analyst Reviewed By

Date

Peer Reviewed By

Date

ANALYSIS SEQUENCE

6H12011

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/12/2016

ab Number	Analysis	Order	STD ID	ISTD ID	Comments
H12011-IBL1	QC	1			
H12011-CAL1	QC	2	1604163		
H12011-CAL2	QC	3	1604164		
H12011-CAL3	QC	4	1604165		
H12011-CAL4	QC	5	1604166	1 1 1	
H12011-CAL5	QC	6	1604167		
H12011-ICV1	QC	7	1603001		
H12011-ICB1	QC	8			
608273-BLK1	QC	9			
608273-BLK2	QC	10			
608273-BLK3	QC	11			
F608273-BS1	QC	12			
-608273-BSD1	QC	13			
F608273-DUP1	QC	14			
F608273-MS1	QC	15			
F608273-MS2	QC	16			
F608273-MSD1	QC	17			
F608273-MSD2	QC	18			
6H12011-CCV1	QC	19	160300		
6H12011-CCB1	QC	20			
1607542-01	MHg-CVAFS-W-Dist	21			Scan all data for level IV report
1607542-03	MHg-CVAFS-W-Dist	22			Scan all data for level IV report
1607542-04	MHg-CVAFS-W-Dist	23			Scan all data for level IV report
1607542-05	MHg-CVAFS-W-Dist	24			Scan all data for level IV report
1607542-06	MHg-CVAFS-W-Dist	25			Scan all data for level IV report
1607542-07	MHg-CVAFS-W-Dist	26			Scan all data for level IV report
1607586-12	MHg-CVAFS-W-Dist	27			Scan all data - Level IV
1607586-19	MHg-CVAFS-W-Dist	28	4		Scan all data - Level IV
1607586-20	MHg-CVAFS-W-Dist	29			Scan all data - Level IV
1607586-21	MHg-CVAFS-W-Dist	30			Scan all data - Level IV
6H12011-CCV2	QC	31	160300	1	
6H12011-CCB2	QC	32			
1607772-01	MHg-CVAFS-W-Dist	33			
1607772-02	MHg-CVAFS-W-Dist	34			
1607772-03	MHg-CVAFS-W-Dist	35			

Due Date: 8/11/2016

ANALYSIS SEQUENCE

6H12011

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/12/2016

ab Number	Analysis	Order	STD ID	ISTD ID	Comments
607772-04	MHg-CVAFS-W-Dist	36			
607772-05	MHg-CVAFS-W-Dist	37			
1607772-06	MHg-CVAFS-W-Dist	38			
1607772-07	MHg-CVAFS-W-Dist	39			
1607586-04RE3	MHg-CVAFS-W-Dist	40			From F608251 by DMH on 11-Aug-16
1607805-01	MHg-CVAFS-W-Dist	41			Scan all data - Level IV
1607805-02	MHg-CVAFS-W-Dist	42			Scan all data - Level IV
6H12011-CCV3	QC	43	1603001		
6H12011-CCB3	QC	44			
6H12011-CCV4	QC	45	160300	1	
6H12011-CCB4	QC	46			
6H12011-CCV5	QC	47	160300	1	
6H12011-CCV6	QC	48	160300	1	
6H12011-CCV7	QC	49	160300	1	
6H12011-CCB5	QC	50			
6H12011-CCV8	QC	51	160300)1	
6H12011-CCB6	QC	52			

Samples Laded By

Date

Data Processed By

2/15/14

F608273

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

ab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608273-BLK1	Blank	45	40					
F608273-BLK2	Blank	45	40					
F608273-BLK3	Blank	45	40					
F608273-BS1	Blank Spike	45	40	1603908	45			
F608273-BSD1	Blank Spike dup	45	40	1603908	45			
F608273-DUP1	Duplicate [1607542-01]	45	40					
F608273-MS1	Matrix Spike [1607586-12]	45	40	1603908	45			
F608273-MS2	Matrix Spike [1607772-01]	45	40	1603908	45			
F608273-MSD1	Matrix Spike Dup [1607586-12]	45	40	1603908	45			
F608273-MSD2	Matrix Spike Dup [1607772-01]	45	40	1603908	45			

Standard ID(s): 1603908 Description:

MHg New Primary 1.0 ng/mL CAL

Expiration:

19-Oct-16 00:00

Reagent ID(s): 1602604 Description:
Acetate Buffer

Expiration: 15-Nov-16 00:00

Ethylating Agent (For Methyl Mercury Analysis)

30-Nov-16 00:00 17-Aug-16 00:00

1604432 APDC 1604511 0.5% E

0.5% Distillation Dilute (Made Daily)

07-Feb-17 00:00

1604518

1602944

2.5% Ascorbic Acid

19-Aug-16 00:00

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ie Date: 8/11/2016

F608273

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

ne Date: 8/11/2016

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
ab Number 607542-01	OL-2434-01	45	40	1		6	Scan all data for level IV report	
	OL-2434-02	45	40	-4	1.4	**	Scan all data for level IV report	
607542-03		45	40	-	12		Scan all data for level IV report	
607542-04	OL-2434-03						Scan all data for level IV report	
607542-05	OL-2434-04	45	40	1 14	*			
1607542-06	OL-2434-05	45	40	1.0		-	Scan all data for level IV report	
1607542-07	OL-2434-06	45	40	767	147		Scan all data for level IV report	
	1524 WQ1b-c_071816_SW_10 Dissolved	45	40	-	-	-	From F608251 by DMH on 11-Aug-16	From F608251 by DMH on 11-Aug-16
1607586-04RE3		45	40	QC	- 31		MS/MSD Scan all data - Level IV	
1607586-12	1528 WQ-ECH_071816_SW_10 Dissolved			-		-	Scan all data - Level IV	
1607586-19	1532 WQ-FPT_071816_SW_10	45	40		H.	*		
1607586-20	1532 WQ-FPT_071816_SW_10 Dissolved	45	40		-		Scan all data - Level IV	
1607586-21	1533 EB_071916_SW_QC Dissolved	45	40		-	14.1	Scan all data - Level IV	
1607772-01	WP2-1E (20 m.)	45	40	7	7	-		
1607772-02	WP2-1E (40 m.)	45	40	-	1	-		
	WP2-1E (Bottom)	45	40		-	4		
1607772-03			40	-	-	-		
1607772-04	WP2-1E (Surface)	45		_		-		
1607772-05	WP2-2E (20 tn.)	45	40	-		-		
1607772-06	WP2-2E (40 m.)	45	40	1				
P ag 07772-07	WP2-2E (Bottom)	45	40	*		1		
Ф 368)7805-01	ADD-02_072216_SW_10	45	40	-			Scan all data - Level IV	

F608273

Eurofins Frontier Global Sciences, Inc.

Matrix: Water Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

		Scan all data - Level IV
ADD-02_072216_SW_10 Dissolved 45 40 -	ADD-02_072216_SW_10 Dissolved 45 40	ADD-02_072216_SW_10 Dissolved 45 40
45 40 -	45 40	45 40
40 -	40	40
100	14.0	20 20 2

F608273

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

Aatrix: Water	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
	Blank	45	40					
608273-BLK1 608273-BLK2	Blank	45	40					
-608273-BLK2 -608273-BLK3	Blank	45	40					
F608273-BERS	Blank Spike	45	40	1603908	45			
F608273-BSD1	Blank Spike dup	45	40	1603908	45			
F608273-DUP1	Duplicate [1607542-01]	45	40					
F608273-MS1	Matrix Spike [1607586-12]	45	40	1603908	45			
F608273-MS2	Matrix Spike [1607772-01]	45	40	1603908	45			
F608273-MSD1	Matrix Spike Dup [1607586-12]	45	40	1603908	45			
F608273-MSD2	Matrix Spike Dup [1607772-01]	45	40	1603908	45			

Standard ID(s): 1603908

Description:

MHg New Primary 1.0 ng/mL CAL

Expiration:

19-Oct-16 00:00

Reagent ID(s):

APDC

Description:

1604432 1604511

0.5% Distillation Dilute (Made Daily)

Expiration:

17-Aug-16 00:00

07-Feb-17 00:00

1602604

A 8/15/16

Page 370 of 463 rue Date: 8/11/2016

Page 1 of 3

F608273

Eurofins Frontier Global Sciences, Inc.

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
ab Number 607542-01	OL-2434-01	45	40	(2)			Scan all data for level IV report	
	OL-2434-02	45	40	-	7.	-	Scan all data for level IV report	
607542-03		45	40		-	-	Scan all data for level IV report	
607542-04	OL-2434-03						Scan all data for level IV report	
607542-05	OL-2434-04	45	40	. 8	-	18		
1607542-06	OL-2434-05	45	40	-	1	-	Scan all data for level IV report	
1407542 07	OL-2434-06	45	40		-	-	Scan all data for level IV report	
1607542-07		45	40	-	-	17	From F608251 by DMH on 11-Aug-16.	From F608251 by DMH on 11-Aug-16
1607586-04RE3	1524 WQ1b-c_071816_SW_10 Dissolved			QC	-	-	MS/MSD Scan all data - Level IV	
1607586-12	1528 WQ-ECH_071816_SW_10 Dissolved	45	40	QC				
1607586-19	1532 WQ-FPT_071816_SW_10	45	40	-	1		Scan all data - Level IV	
1607586-20	1532 WQ-FPT_071816_SW_10 Dissolved	45	40	3		1	Scan all data - Level IV	
1607586-21	1533 EB_071916_SW_QC Dissolved	45	40	12	-	-	Scan all data - Level IV	
	WP2-1E (20 m.)	45	40			-		
1607772-01		- 15	40	-	-	-	He	
1607772-02	WP2-1E (40 m.)	45				-		
1607772-03	WP2-1E (Bottom)	45	40	•	-	*	8/2/10	
1607772-04	WP2-1E (Surface)	45	40	1		*		
1607772-05	WP2-2E (20 tn.)	45	40	T.	1 5			1
1607772-06	WP2-2E (40 m.)	45	40	1	10	-		
	WP2-2E (Bottom)	45	40	-		P		
Page 07772-07		15	40	-	-	-	Scan all data - Level IV	
07805-01	ADD-02_072216_SW_10	45	40	_		-	400 787 N/ 6 M/ 10 N/ 10	
으 드		1	1		-			Page

F608273

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

1607805-02

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

1		
1		

ADD-02_072216_SW_10 Dissolved

3115/18 AC

Scan all data - Level IV

Page 372 of 463 ue Date: 8/11/2016

lu 8/12/16 27001 6412010

F608273

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608273-BLK1	Blank	45	40					1.252
F608273-BLK2	Blank	45	40					1,252
F608273-BLK3	Blank	45	40					1.282
F608273-BS1	Blank Spike	45	40	1603908	45			1.254
F608273-BSD1	Blank Spike dup	45	40	1603908	45			1.250
F608273-DUP1	Duplicate [1607542-01]	45	40					1,25×
F608273-MS1	Matrix Spike [1607586-12]	45	40	1603908	45			1,25*
F608273-MS2	Matrix Spike [1607772-01]	45	40	1603908	45			1.254
F608273-MSD1	Matrix Spike Dup [1607586-12]	45	40	1603908	45			1,254
F608273-MSD2	Matrix Spike Dup [1607772-01]	45	40	1603908	45			1.252

Standard ID(s): 1603908 Description:

MHg New Primary 1.0 ng/mL CAL

Expiration:

19-Oct-16 00:00

Reagent ID(s):

1604432

Description:

APDC

1604511 0.5% Distillation Dilute (Made Daily)

Expiration:

17-Aug-16 00:00

07-Feb-17 00:00

1604518 1602604 1602944

Page 3/3 c

e Date: 8/11/2016

F608273

Eurofins Frontier Global Sciences, Inc.

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

ne Date: 8/11/2016

Prepared: 8/11/2016

Iatrix: Water	Prepared using: H	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
ab Number	Sample ID	45	40	1			Scan all data for level IV report	1.250
607542-01	OL-2434-01	43					Scan all data for level IV report	
607542-03	OL-2434-02	45	40		- 7			1.25x
	OL-2434-03	45.	40	9	*,	•	Scan all data for level IV report	1,25x
607542-04		45	40	-			Scan all data for level IV report	1.25x
1607542-05	OL-2434-04			-			Scan all data for level IV report	1,25x
1607542-06	OL-2434-05	45	40					
	OL-2434-06	45	40	-	-		Scan all data for level IV report	1,25a
1607542-07		45	40		-	-	From F608251 by DMH on 11-Aug-16	From F608251 by DMH on 11-Aug-16 / 2
1607586-04RE3	1524 WQ1b-c_071816_SW_10 Dissolved		40	QC	-	-	MS/MSD Scan all data - Level IV	1.25+
1607586-12	1528 WQ-ECH_071816_SW_10 Dissolved	45		QC.	-	-	Scan all data - Level IV	
1607586-19	1532 WQ-FPT_071816_SW_10	45	40	*		1		1.254
	1532 WQ-FPT_071816_SW_10 Dissolved	45	40			T.	Scan all data - Level IV	1,254
1607586-20		45	40	-	-	1	Scan all data - Level IV	1.250
1607586-21	1533 EB_071916_SW_QC Dissolved			-	+	+		1,254
1607772-01	WP2-1E (20 m.)	45	40	,	-			
	WP2-1E (40 m.)	45	40	-	-	1		1,250
1607772-02	uma IF (Pottom)	45	40	-	1			1,25x
1607772-03	WP2-1E (Bottom)	- 1-	40	+		-		1,25x
1607772-04	WP2-1E (Surface)	45		_	-	-		1.250
1607772-05	WP2-2E (20 tn.)	45	40		-			
	WP2-2E (40 m.)	45	40			1		1,254
707772-06		45	40	-	-			1.254
Page 07772-07	WP2-2E (Bottom)		1		+	+-	Scan all data - Level IV	1,25x
07805-01	ADD-02_072216_SW_10	45	40	117		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 - 29

F608273

Eurofins Frontier Global Sciences, Inc.

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water Matrix: Water

Prepared: 8/11/2016

Matrix. Water			40	1		Scan all data - Level IV	. 1 .	
1607805-02	ADD-02_072216_SW_10 Dissolved	45	40	1 20		Scall all data - Level 11	1.2>2	-
1007005 02								

Page 375 of 463 ne Date: 8/11/2016

Methyl Mercury Distillations (EPA 1630)

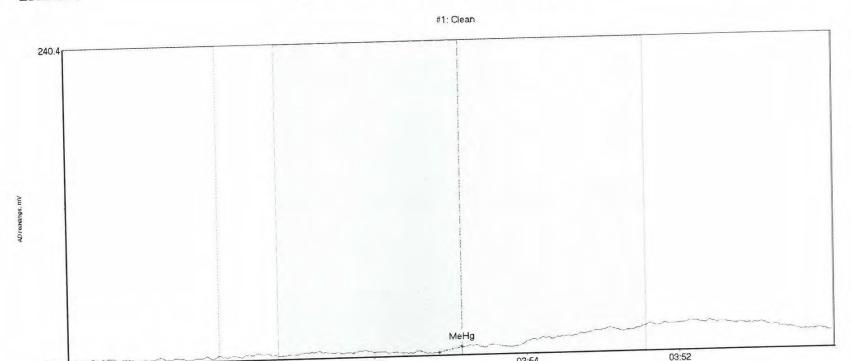
	Date: 8/11//b	Ratch #: F608	273 Sample	Matrix: Water
Name: Duylow	Date: Of III		11-7005	
Name: Duyen WO#: 1607542	, 1607586,	1607+tz, 1	60 1803	

The pH of the preserved sample must be documented before an aliquot is removed for preparation.

Digest #	Sample ID Number	Preserved pH	Sample Size (mL)	Final pH (≥3)	
BLKI	F608273 Blank1	1.0	45	3.0	Spike ID: 1603908
Blkz	F608273 Blank2	1.0	45	3.0	Spike Amount: 45 µL
Blk3	=60f273 Blank3	1.0	45	3,0	Spike Witness: 1-8/11/16
BS	=608277 BS	1.0	45	30	7
BSD	=608273 BSO	1.0	45	3.0	Balance #: 2 Calibrated? Ves \(\sum \) No
pupl	F608277 Dupl	1-0	4,5	30	
MSI	F608273 MSI	1.0	45	3.0	Pipette #: W2948
Msol	+108277 MINI	1.0	45	3.0	Cal. Date: 8/8/66
MS2	F608277 452 MSD 85	11-16 100	45	4.0	1/22707
HSOZ	F608273 MS02	1.2	45	400	Pipette #: <u>N27707</u> Cal. Date: <u>8/9//6</u>
nsoc	1607542-013	1.0	45	3.0	Cal. Date.
7	1607542 -03B	100	45	3.0	Pipette #: <u>CJ/7687</u>
3	1607542 -04B	1.0	45	3-0	Cal. Date: 8/9/16
4	1607542 - 65 B	1.0	45	3.0	APDC ID: 160 4 432
5	1607542 -06 3	100	45	3.0	HCI ID: 1604511
6	1607542 -078	100	45	7.0	
7	1607586-12 3	1-0	45	3.0	Temperature: No set range a
8	1607586 -19B	1.0	45	3.0	the temp. may be changed t
an	1607586-201	100	1	3.0	keep flow rate of ≥10 mL ponts hour. Temperature is recorde
10	1607586 -213	1-0	45	400	for informational purposes only
()	1607772-01 A	The second secon	45	4.0	17/12
12	1607772 -02 A	1-0	45	State 4.0	0 - 0
13	1607772 -031	1-0	45	4.0	
14	1607772 -041	7 1-0	45	3.0	Unit 3:/20,9
15	1607772 -0514	1-0	45	3.0	Unit 4:(20,/
16	1607772 -061	Y	45	3.0	Unit 5:
17	1607772 -071	9 1-0	45	3.0	Unit 6:
18	1607586-0411306	and in	1 45	3.0	
19	1607805-019	1-0	8-11-16	400	Comments:
26	1 2 0 04 143 51	refor			- 1 course: 1607542
20	1607805 02	1 /cs	45	4.0	MS1. MSV Somee: 1607586-12
-			+==		1607586-12
					1647772-01 1647772-01 418-118-118
			8-11-16	por	1607586-04RT3
					8-11-160H 160917
					- 0/1/000 -02/

EFGS / Methyl Mercury Distillations / LOG-PR-029.03 / Effective: Aug. 4, 2014 / QA2016-036

Verified A 8/11/16 Page 15 of 30



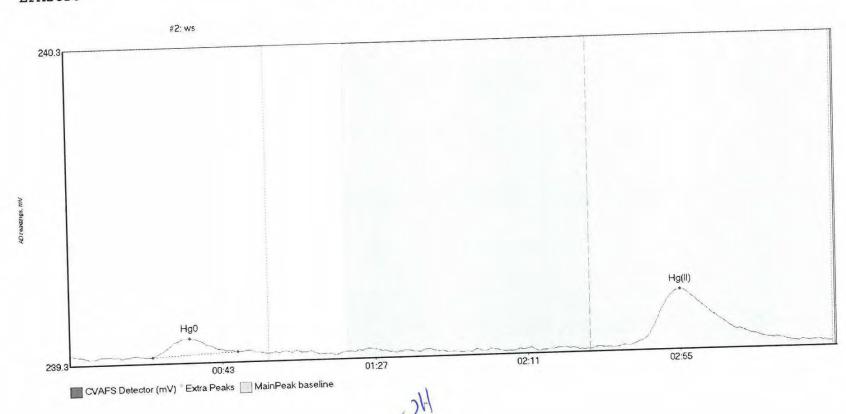
239.4

00:58

CVAFS Detector (mV) Extra Peaks MainPeak baseline

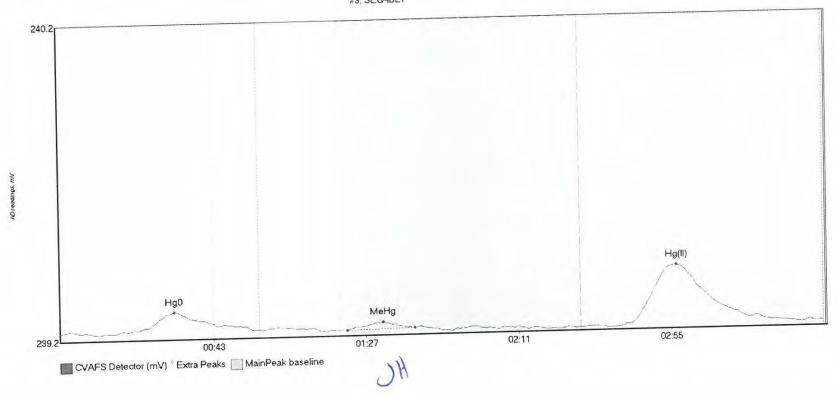
01:56

02:54



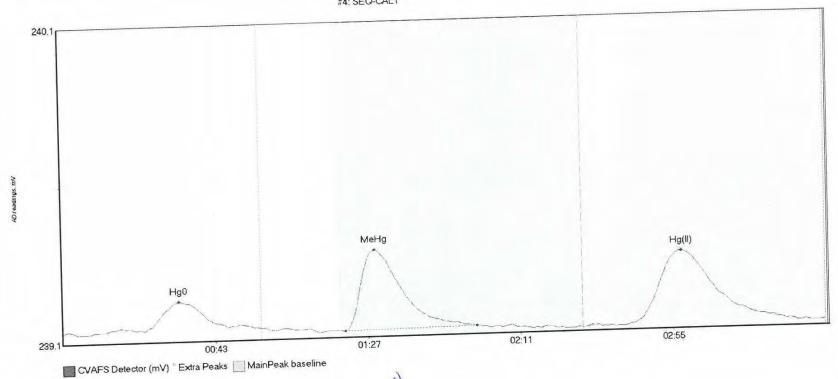
Page 378 of 463





Name SEQ-IBL1 Hg0 SEQ-IBL1 MeHg SEQ-IBL1 Hg(II	8.541 2.230	Start Time 22.2 82.6 161.9	EndTime 55.4 102.0 212.5	StartValue 239.25 239.23 239.23	EndValue 239.24 239.24 239.23	Peak Max 32.7 92.9 177.6	PeakHeight 0.056 0.024 0.192	Flags OK OK OK	Baseline 239.2413 239.2413 239.2413	B1Dev 0.00 0.00 0.00	BlShift -0.01 -0.01 -0.01	Comment	016
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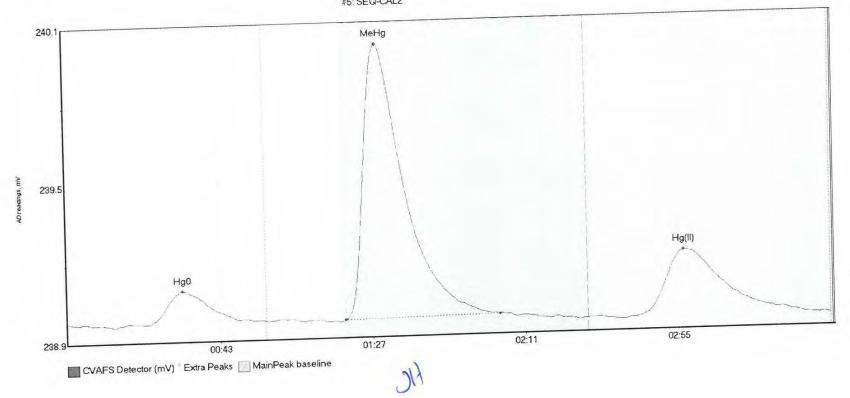
#4: SEQ-CAL1





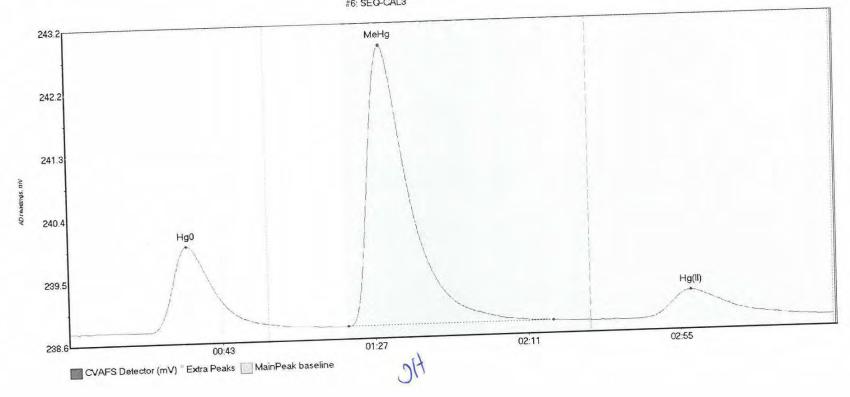
Name SEQ-CAL1 Hg0 SEQ-CAL1 MeHg SEQ-CAL1 Hg(II	11.820 34.532	Start Time 23.6 81.5 162.3	EndTime 55.5 119.4 216.1	StartValue 239.12 239.10 239.10	EndValue 239.12 239.11 239.10	Peak Max 33.6 90.0 178.4	PeakHeight 0.090 0.256 0.234	Flags OK OK OK	Baseline 239.1198 239.1198 239.1198	B1Dev 0.00 0.00 0.00	BlShift -0.02 -0.02 -0.02	Comment	016
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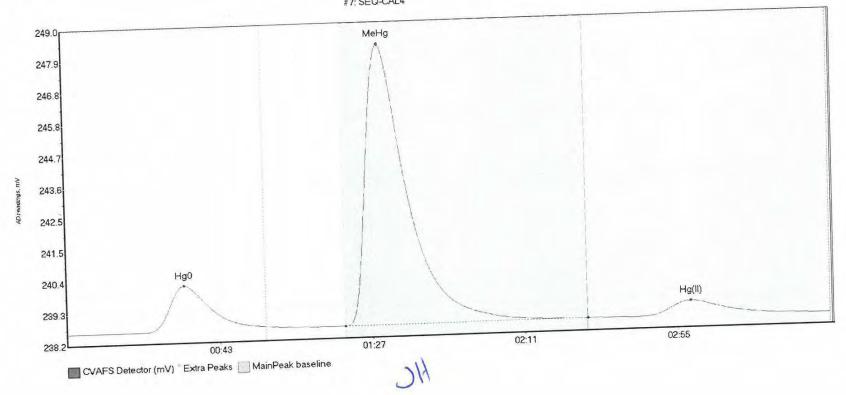
Name SEQ-CAL2 Hg0 SEQ-CAL2 MeHg SEQ-CAL2 Hg(II	15.642 142.049	Start Time 23.2 80.1 163.3	EndTime 49.5 124.8 212.7	StartValue 238.96 238.96 238.94	EndValue 238.97 238.97 238.95	Peak Max 33.3 89.9 177.7	PeakHeight 0.127 1.063 0.256	Flags OK OK OK	Baseline 238.9704 238.9704 238.9704	BlDev 0.00 0.00 0.00	BlShift -0.03 -0.03 -0.03	Comment	016
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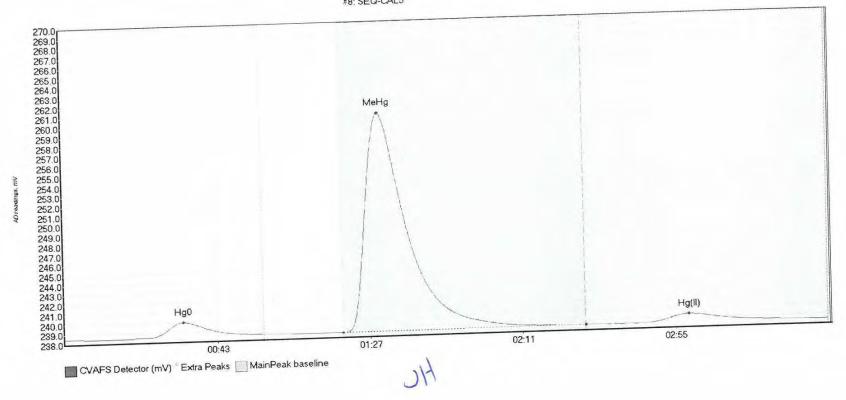
Name SEQ-CAL3 Hg0 SEQ-CAL3 MeHg SEQ-CAL3 Hg(II	154.780 551.845	Start Time 22.6 80.1 164.6	EndTime 57.5 139.2 215.6	StartValue 238.79 238.80 238.79	EndValue 238.87 238.81 238.79	Peak Max 33.9 90.5 179.0	PeakHeight 1.229 4.029 0.399	Flags CT OK OK	Baseline 238.7997 238.7997 238.7997	BlDev 0.00 0.00 0.00	BlShift -0.02 -0.02 -0.02	Comment	016
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#7: SEQ-CAL4



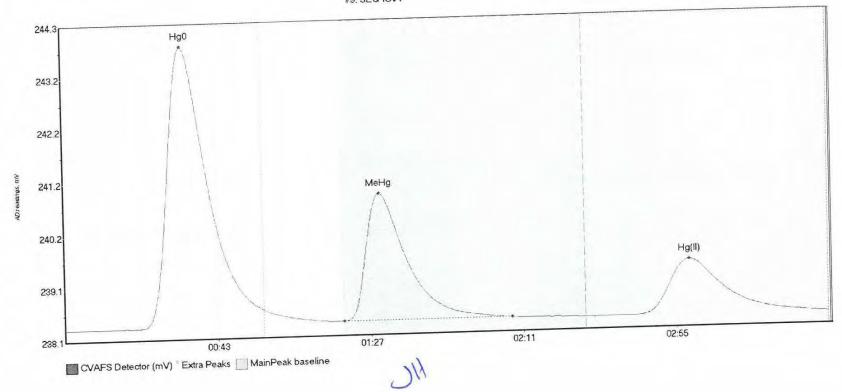
Name SEQ-CAL4 Hg0 SEQ-CAL4 MeHg SEQ-CAL4 Hg(II	196.284 1315.758	Start Time 22.1 80.1 165.0	EndTime 57.5 150.0 211.2	StartValue 238.63 238.65 238.64	EndValue 238.72 238.66 238.65	Peak Max 33.9 90.7 179.8	PeakHeight 1.564 9.557 0.507	Flags CT CT OK	Baseline 238.6371 238.6371 238.6371	BlDev 0.00 0.00 0.00	BlShift -0.01 -0.01 -0.01	Comment	316	
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#8: SEQ-CAL5



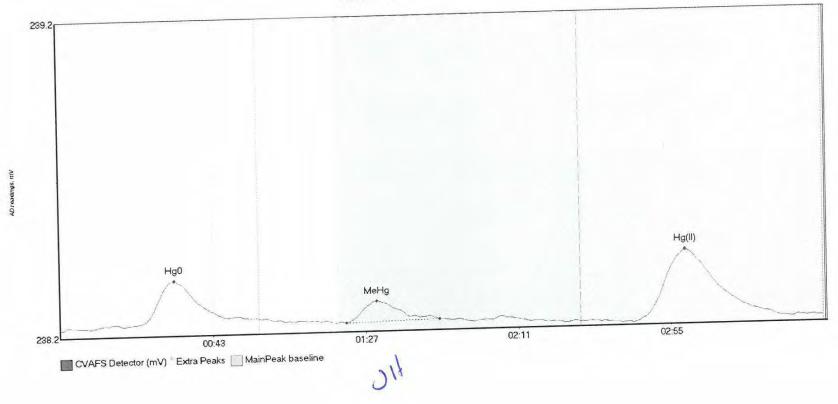
SEO-CAL5 Hg0 1	.86.675 3052.843	Start Time 21.7 80.1 165.7	EndTime 57.5 150.0 211.7	StartValue 238.48 238.49 238.53	EndValue 238.58 238.55 238.54	Peak Max 34.1 91.0 179.9	PeakHeight 1.499 22.202 0.832	Flags CT CT OK	Baseline 238.4866 238.4866 238.4866	BlDev 0.00 0.00 0.00	BlShift 0.04 0.04 0.04	Comment)16
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#9: SEQ-ICV1



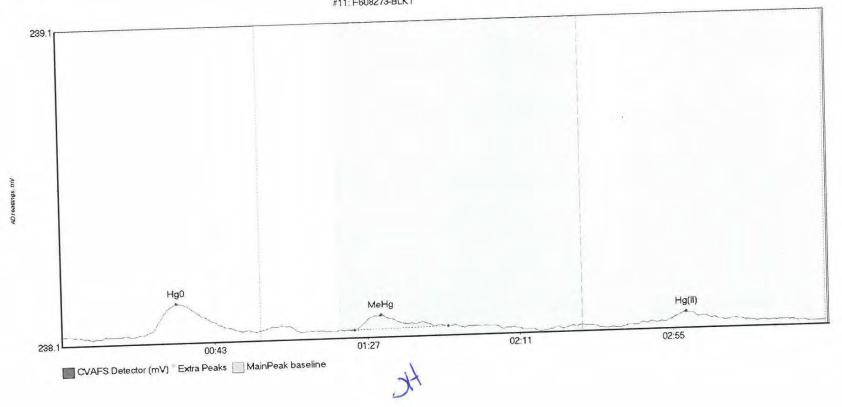
	Area 684.266 333.681	Start Time 16.6 80.1 164.7	EndTime 57.5 128.7 219.8	StartValue 238.35 238.41 238.37	EndValue 238.66 238.40 238.37	Peak Max 34.2 90.7 179.9	PeakHeight 5.461 2.468 1.066	Flags CT OK CT	Baseline 238.3486 238.3486 238.3486	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment)16
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#10: SEQ-ICB1



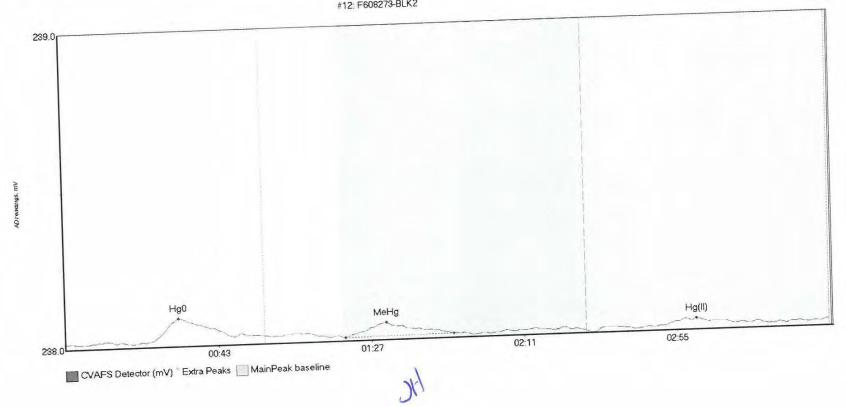
Name SEQ-ICB1 Hg0 SEQ-ICB1 MeHg SEQ-ICB1 Hg(II	17.593 7.830	Start Time 10.1 82.5 166.0	EndTime 57.5 109.3 210.4	StartValue 238.22 238.22 238.21	EndValue 238.24 238.23 238.22	Peak Max 32.9 91.1 180.2	PeakHeight 0.144 0.067 0.225	Flags CT OK OK	Baseline 238.2207 238.2207 238.2207	B1Dev 0.00 0.00 0.00	BlShift 0.00 0.00 0.00	Comment	016
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#11: F608273-BLK1



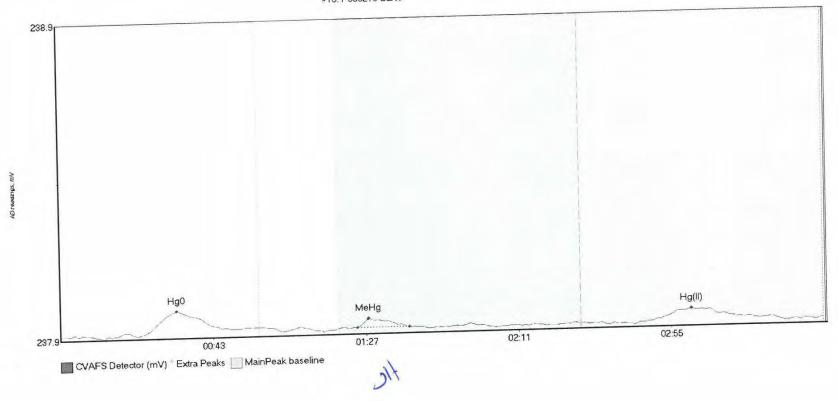
Name Area F608273-BLK1 Hg 12.905 F608273-BLK1 Me 5.216 F608273-BLK1 Hg 2.460	84.2	EndTime 51.5 111.1 191.2	StartValue 238.12 238.12 238.11	EndValue 238.12 238.12 238.11	Peak Max 33.0 91.9 179.9	PeakHeight 0.098 0.045 0.029	Flags OK OK OK	Baseline 238.1198 238.1198 238.1198	BlDev 0.00 0.00 0.00	BlShift -0.01 -0.01 -0.01	Comment	016
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#12: F608273-BLK2



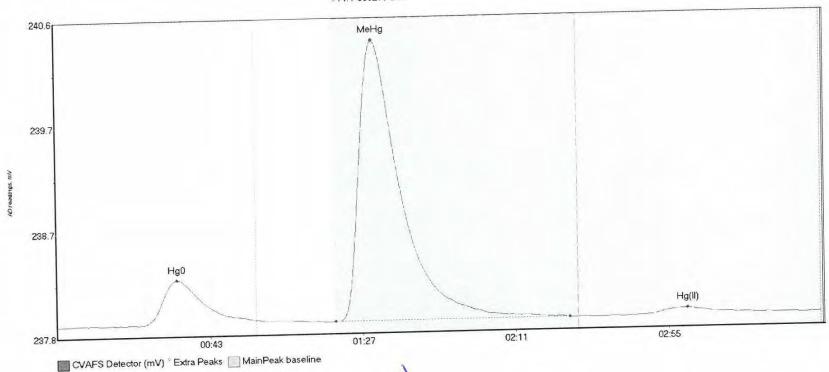
Name Area Start Time EndTime StartValue EndValue Peak Max PeakHeight Flags Baseline BlDev 0.01 0.01 F608273-BLK2 Hg 8.814 23.2 48.6 238.02 238.03 32.5 0.075 0K 238.0233 0.00 0.01 F608273-BLK2 Me 6.388 80.4 111.7 238.02 238.02 92.3 0.044 0K 238.0233 0.00 0.01 F608273-BLK2 Hg 4.037 165.0 202.4 238.02 238.02 181.8 0.027 0K 238.0233 0.00 0.01	nment
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#13: F608273-BLK3



Name F608273-BLK3 Hg F608273-BLK3 Me	8.910 2.305	85.5	EndTime 49.8 100.5 201.8	StartValue 237.95 237.96 237.96	EndValue 237.97 237.96 237.96	Peak Max 33.5 88.6 181.8	PeakHeight 0.078 0.028 0.036	Flags OK OK OK	Baseline 237.9543 237.9543 237.9543	B1Dev 0.00 0.00 0.00	BlShift 0.01 0.01 0.01	Comment	316
F608273-BLK3 Me	5.528	170.8		237.96	237.96	181.8	0.036	OK	231.30.3				

#14: F608273-BS1



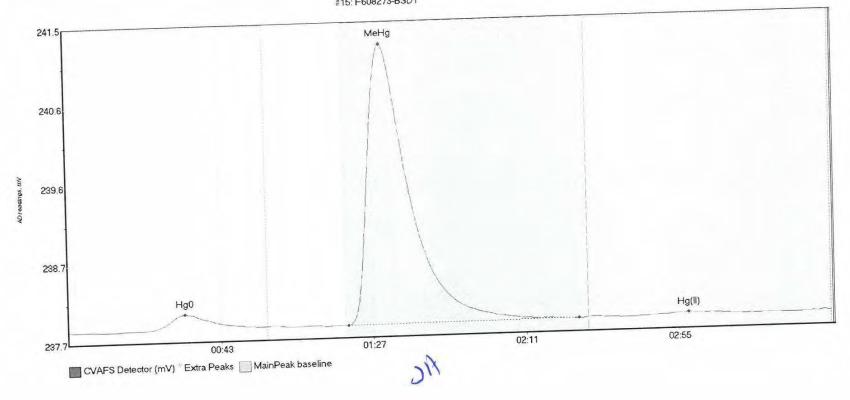
91.2

181.4

Name		Area
F608273-BS1	Hg0	49.160
F608273-BS1	Мен	342.440
F608273-BS1		

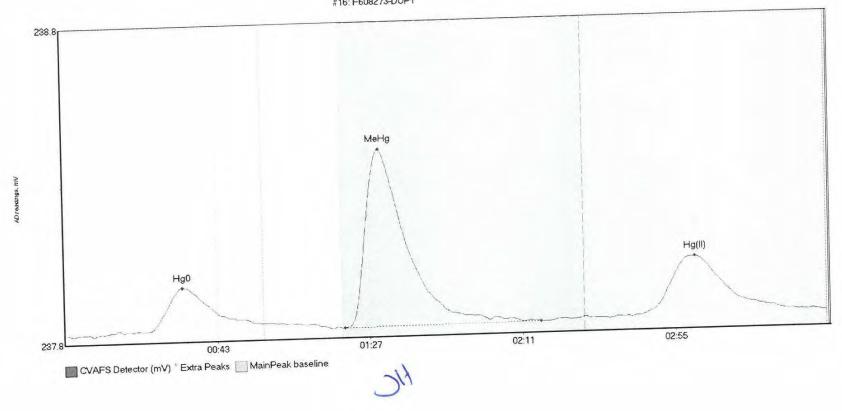
Start	Time	EndTime	
23.5		57.5	
80.1		147.4	
168.7		215.5	

#15: F608273-BSD1



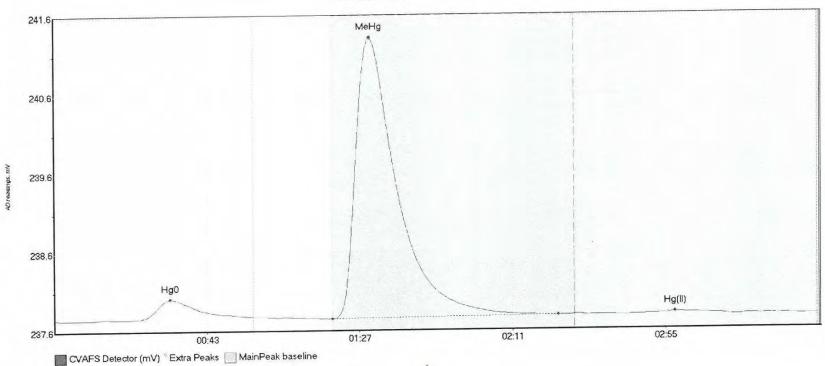
ECO0273_RSDI HG /3./42	56.7 237.85 147.1 237.85	EndValue 237.87 237.86 237.88	Peak Max 33.7 91.0 178.7	PeakHeight 0.187 3.415 0.016	Flags OK OK OK	Baseline 237.8530 237.8530 237.8530	B1Dev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
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#16: F608273-DUP1



Name Area Start Ti F608273-DUP1 Hg 17.875 24.2 F608273-DUP1 Me 77.113 80.7 F608273-DUP1 Hg 33.278 165.3	me EndTime 57.2 137.3 219.1	StartValue 237.82 237.81 237.83	EndValue 237.83 237.82 237.83	Peak Max 34.2 91.1 181.7	PeakHeight 0.138 0.564 0.184	Flags OK OK	Baseline 237.8128 237.8128 237.8128	0.00 0.00 0.00	B1Shift 0.02 0.02 0.02		016
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#17: F608273-MS1



SH

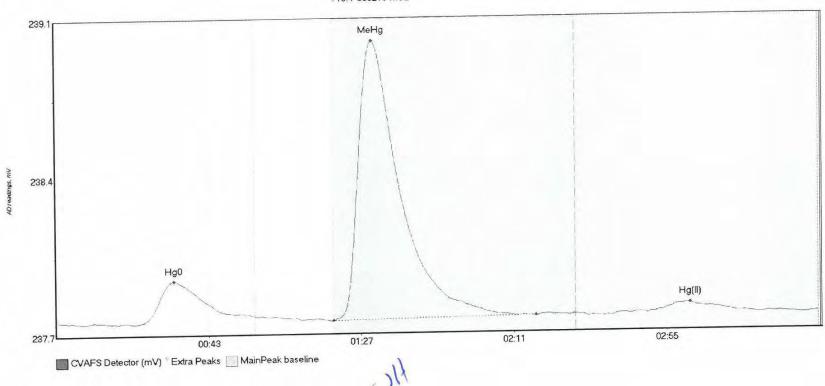
Start	Time	EndTime	
21.1		57.5	
80.1		145.1	
173.1		188.9	

Peak Max	PeakHeight	Flags
33.4	0.261	CT
91.0	3.561	OK
178.8	0.023	OK

Baseline	BlDe
237.7767	0.00
237.7767	0.00
237.7767	0.00

BlShift	C
0.03	
0.03	
0.03	

#18: F608273-MS2



Name		Area	
F608273-MS2	Hg0	24.432	
F608273-MS2			
F608273-MS2	Hg (5.999	

Start Time EndTime 57.5 22.9 138.5 80.1 200.7 170.6

237.77 237.78 237.76 237.77

91.4 182.7

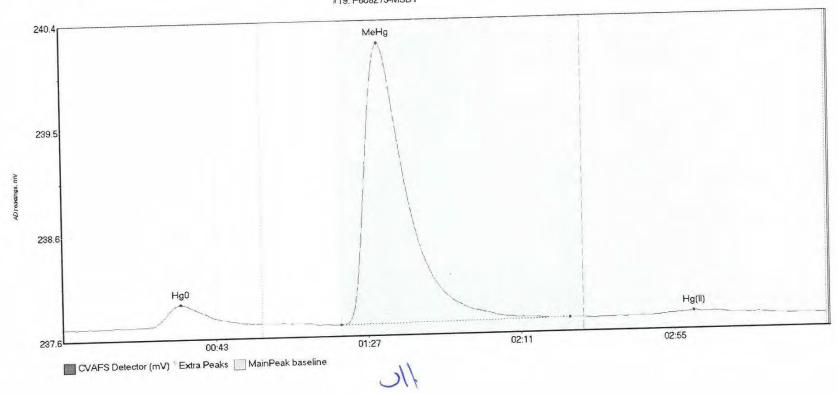
StartValue EndValue Peak Max PeakHeight Flags 237.75 237.78 34.1 0.192 CT 1.246 OK 0.042

Baseline BlDev 237.7576 0.00 237.7576 0.00 237.7576 0.00

BlShift Comment 0.02 0.02 0.02

016

#19: F608273-MSD1

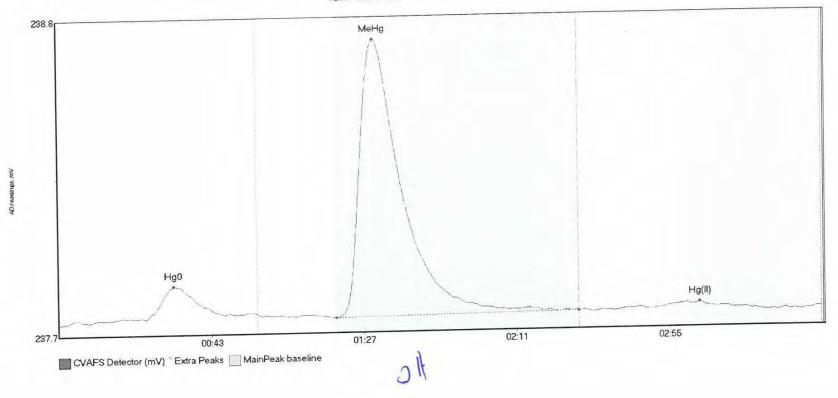


34.0

91.5

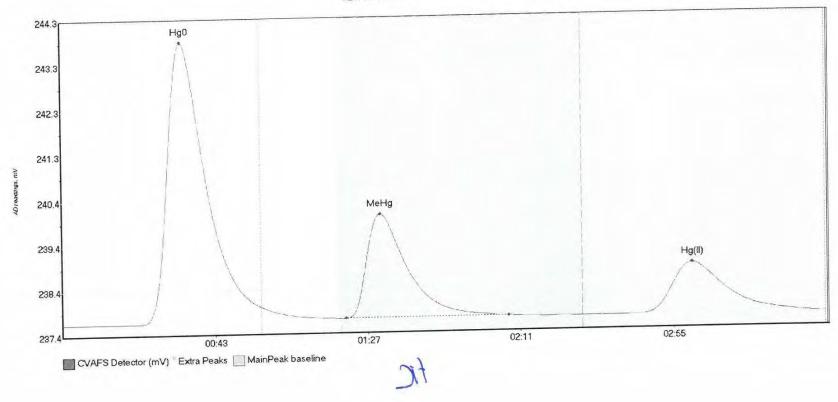
181.6





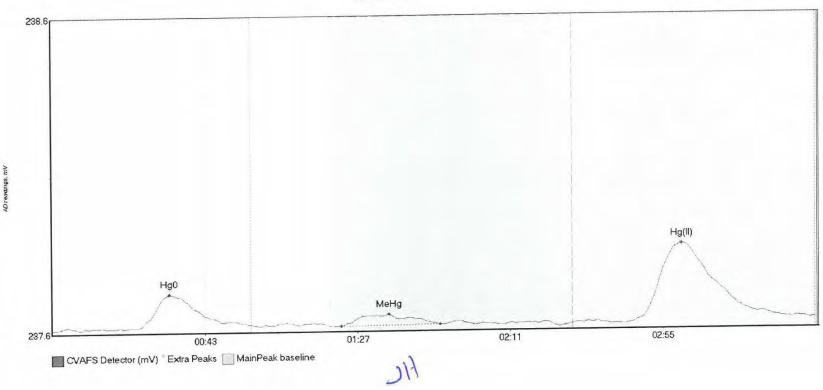
Name Ar F608273-MSD2 Hg 14 F608273-MSD2 Me 13 F608273-MSD2 Hg 2	37.712	Start Time 2.2 80.2 170.9	EndTime 57.5 149.9 194.2	StartValue 237.70 237.71 237.72	EndValue 237.73 237.72 237.73	Peak Max 33.1 91.2 184.7	PeakHeight 0.130 0.992 0.021	Flags CT OK OK	Baseline 237.6981 237.6981 237.6981	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016	
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#21: SEQ-CCV1



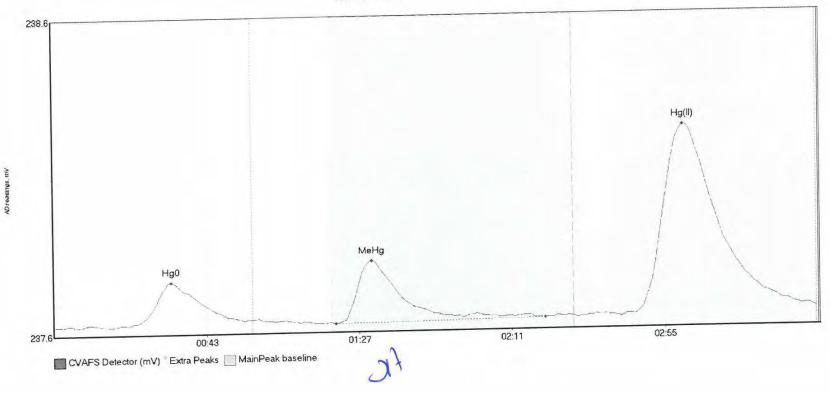
Name SEQ-CCV1 Hg0 SEQ-CCV1 MeHg SEO-CCV1 Hg(II)	Area 731.557 300.069 197.264	Start Time 20.5 81.7 165.3	EndTime 57.5 128.6 219.8	StartValue 237.68 237.75 237.73	EndValue 238.01 237.75 237.73	Peak Max 34.5 91.7 181.4	PeakHeight 6.090 2.251 1.104	Flags CT OK CT	Baseline 237.6744 237.6744 237.6744	0.00 0.00 0.00	0.06 0.06 0.06	Comment)16	
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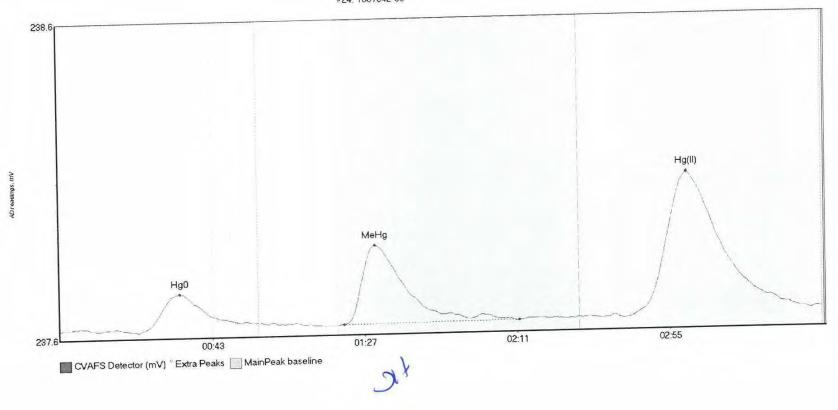
SEQ-CCB1 MeHg 5.711 83.3 111.7 237.66 237.66 237.67 181.5 0.249 OK 237.6502 0.00 0.02 SEQ-CCB1 Hg(II) 44.056 167.1 218.4 237.66 237.67 181.5 0.249	Name SEQ-CCB1 Hg0 SEQ-CCB1 MeHg	243 21.0 57.1 237.66 237.66 97.0 0.037 OK 2 11 83.3 111.7 237.66 237.66 97.0 0.249 OK 2	37.6502 37.6502 37.6502	0.00 0.00 0.00	0.02 0.02 0.02		316
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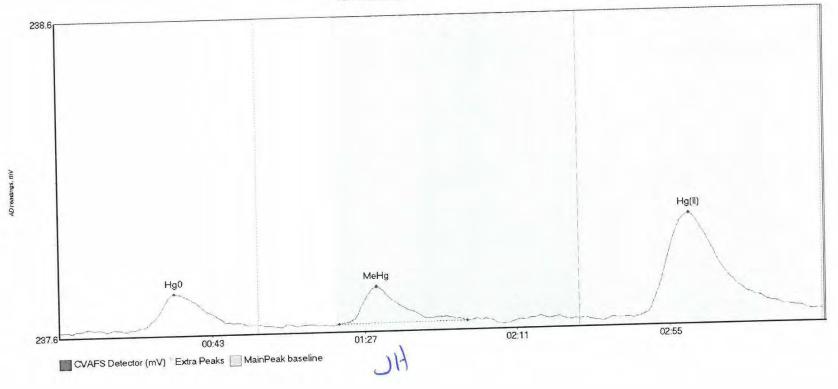
Name 1607542-01 Hg0 1607542-01 MeHg 1607542-01 Hg(I	17.937 29.207		EndTime 55.0 141.8 219.8	StartValue 237.64 237.63 237.64	EndValue 237.65 237.64 237.67	Peak Max 33.9 91.8 181.5	PeakHeight 0.135 0.199 0.603	Flags OK OK CT	Baseline 237.6352 237.6352 237.6352	B1Dev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
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#24: 1607542-03



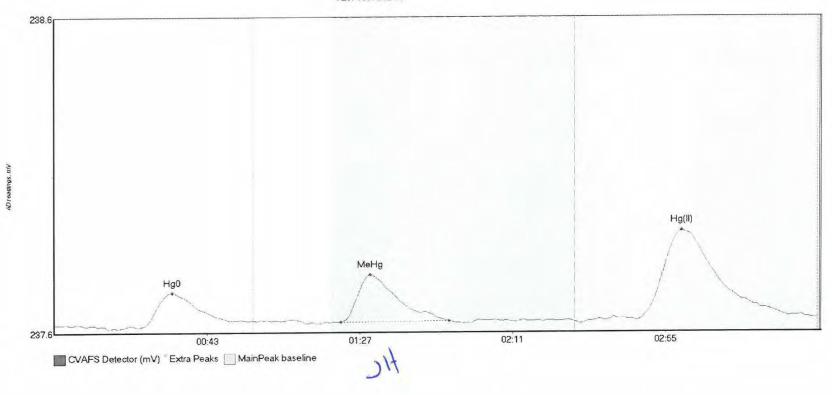
Name 1607542-03 Hg0 1607542-03 MeHq 1607542-03 Hg(36.07	23.1	ime EndTime 56.8 132.6 216.7	StartValue 237.61 237.62 237.63	EndValue 237.63 237.63 237.65	Peak Max 34.7 91.2 181.1	PeakHeight 0.120 0.251 0.456	Flags OK OK OK	Baseline 237.6175 237.6175 237.6175	BlDev 0.00 0.00 0.00	BlShift 0.04 0.04 0.04	Comment	316
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#25: 1607542-04



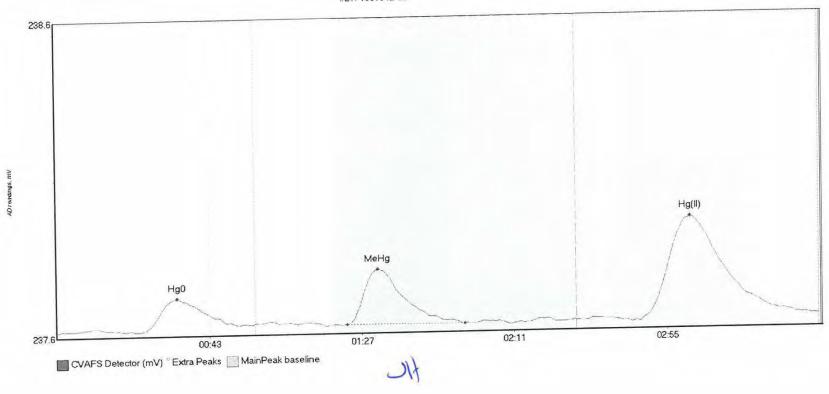
Name Area 1607542-04 Hg0 16.271 1607542-04 MeHg 14.810 1607542-04 Hg(I 58.159	Start Time 19.6 80.6 167.1	EndTime 54.8 117.6 219.8	StartValue 237.61 237.62 237.63	EndValue 237.62 237.62 237.64	Peak Max 33.1 91.5 181.6	PeakHeight 0.118 0.118 0.322	Flags OK OK CT	Baseline 237.6108 237.6108 237.6108	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	216
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#26: 1607542-05



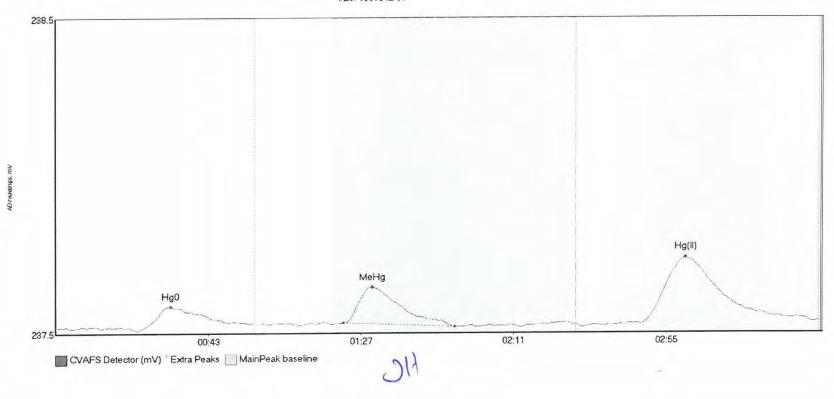
1607542-05 Hg0 1607542-05 MeHg	19.416	82.6	55.8 113.7	237.59 237.60	EndValue 237.61 237.61 237.62	Peak Max 33.8 91.0 180.7	PeakHeight 0.111 0.151 0.286	Flags OK OK OK	237.5973 237.5973 237.5973	0.00	0.02 0.02 0.02	Commenc	016
1607542-05 Hg(I	51.721	154.4	219.1	237.61	237.62	180.7	0.286	OK	231.3913	0.00	0.02		

#27: 1607542-06



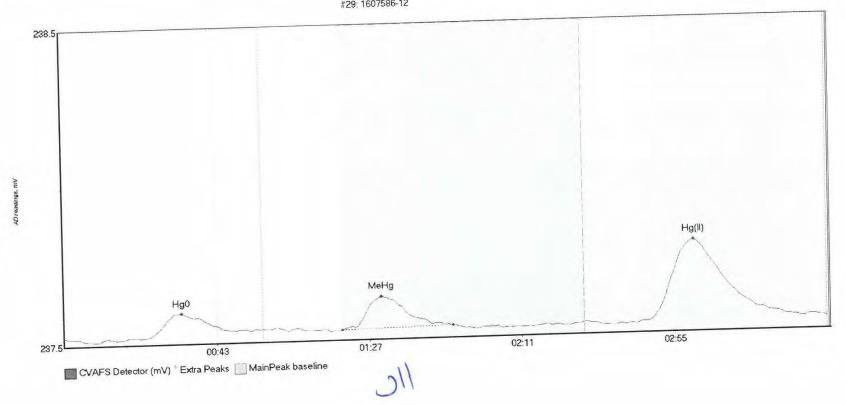
Name Area 1607542-06 Hg0 13.185 1607542-06 MeHg 23.111 1607542-06 Hg(I 59.627	83.8	EndTime 52.4 117.7 219.4	StartValue 237.58 237.59 237.59	EndValue 237.59 237.59 237.60	Peak Max 34.7 92.6 182.8	PeakHeight 0.103 0.175 0.328	Flags OK OK OK	Baseline 237.5757 237.5757 237.5757	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
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#28: 1607542-07



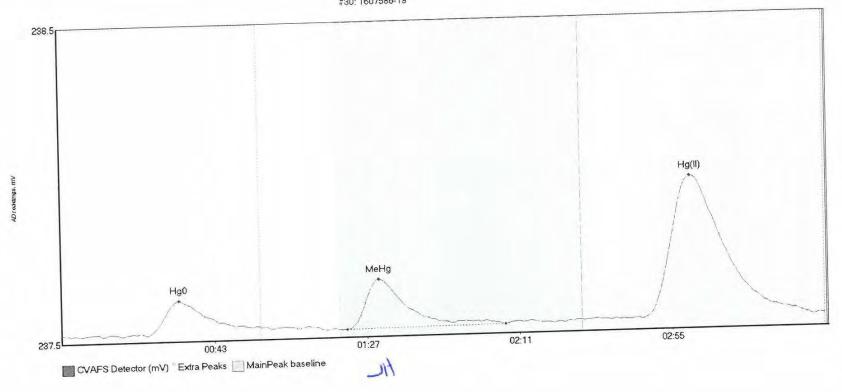
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags			BlShift	Comment	
1607542-07 Hg0		23.5	57.3	237.55	237.57	33.1	0.077	OK	237.5603	0.00	0.02		016
1607542-07 MeHg			115.0	237.57	237.56	91.3	0.115	OK	237.5603	0.00	0.02		310
1607542-07 Herg			218.2	237.57	237.58	181.6	0.210	OK	237.5603	0.00	0.02		

#29: 1607586-12



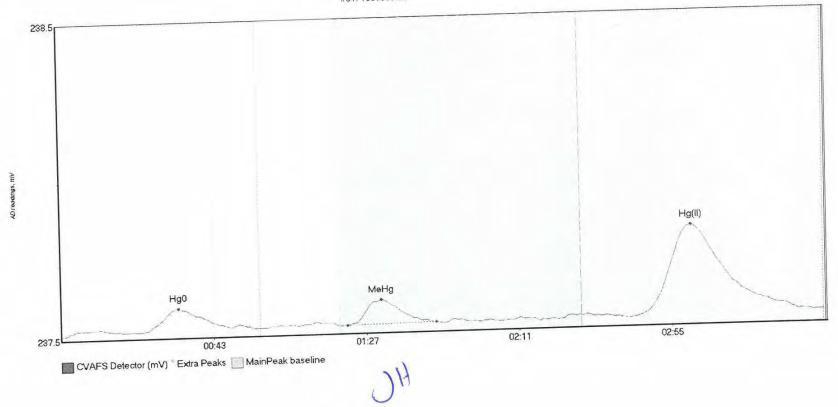
Name Area 1607586-12 Hg0 9.465 1607586-12 MeHg 12.88 1607586-12 Hg(I 43.63	80.1	e EndTime 54.0 112.1 212.6	StartValue 237.54 237.55 237.55	EndValue 237.55 237.56 237.56	Peak Max 33.9 91.5 181.6	PeakHeight 0.077 0.103 0.255	Flags OK OK OK	Baseline 237.5412 237.5412 237.5412	0.00 0.00 0.00	B1Shift 0.02 0.02 0.02	Comment)16
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#30: 1607586-19



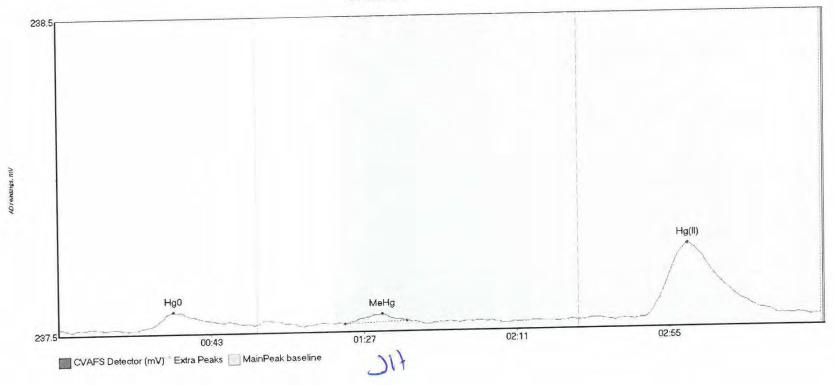
Name Area 1607586-19 Hg0 13.666 1607586-19 MeHg 21.465 1607586-19 Hg(I 78.834	82.2	EndTime Start 57.5 237.5 127.9 237.5 216.7 237.5	2 237.52	Peak Max 33.7 91.5 181.5	PeakHeight 0.109 0.157 0.450	Flags CT OK OK	Baseline 237.5199 237.5199 237.5199	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	316	
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#31: 1607586-20



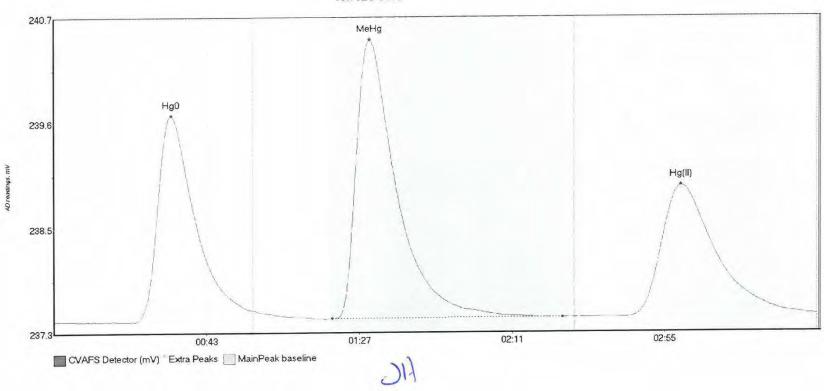
Name Area Start Time EndTime StartValue EndValue Peak Max PeakHeigh Co. 1607586-20 Hg0 12.317 0.5 57.2 237.49 237.50 33.9 0.080 1607586-20 MeHg 8.720 82.4 108.1 237.50 237.51 92.3 0.079 1607586-20 Hg(I 50.096 166.7 214.7 237.51 237.52 181.8 0.285	OK OK OK	Baseline 237.4881 237.4881 237.4881	0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	316
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#32: 1607586-21



Name 1607586-21 Hg0 1607586-21 MeHg 1607586-21 Hg(I	2.329	82.6	EndTime 56.6 100.4 217.2	StartValue 237.49 237.49 237.50	EndValue 237.49 237.50 237.50	Peak Max 33.2 93.3 181.5	PeakHeight 0.047 0.030 0.232	Flags OK OK OK	Baseline 237.4848 237.4848 237.4848	B1Dev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	016
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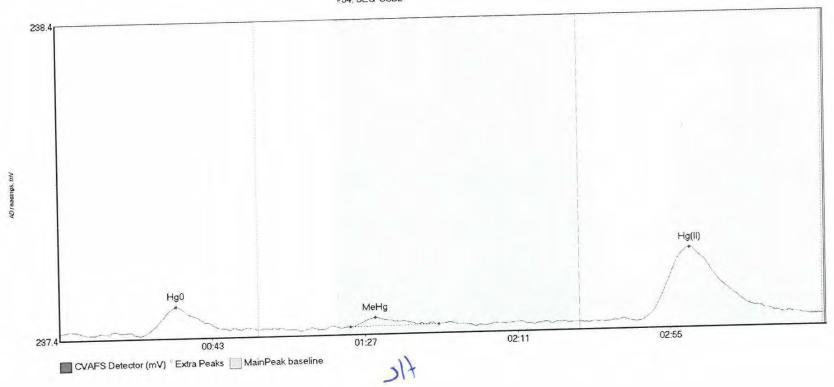
Name SEQ-CCV2 Hg0 SEQ-CCV2 MeHg SEQ-CCV2 Hg(II		Start Time 23.4 80.1 164.5	EndTime 57.5 146.4 219.8		EndValue 237.58 237.50 237.52	Peak Max 33.8 91.0 180.8	PeakHeight 2.200 2.972 1.407	Flags CT OK CT	Baseline 237.4668 237.4668 237.4668	0.00	0.06 0.06 0.06	Comment	316
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BlShift 0.02 0.02 0.02

Comment

016

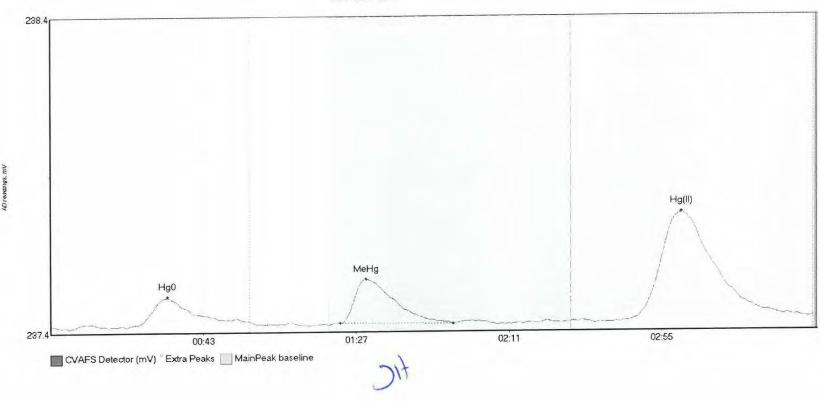
#34: SEQ-CCB2



	Name SEQ-CCB2 Hg0 SEQ-CCB2 MeHg SEQ-CCB2 Hg(II)	Area 9.764 3.198 40.802	Start Time 23.6 83.8 166.6	EndTime 49.2 109.3 216.5	StartValue 237.45 237.46 237.46	EndValue 237.46 237.47 237.47	Peak Max 33.6 91.0 181.8	PeakHeight 0.088 0.029 0.231	Flags OK OK OK	Baseline 237.4597 237.4597 237.4597	BlDev 0.00 0.00 0.00	
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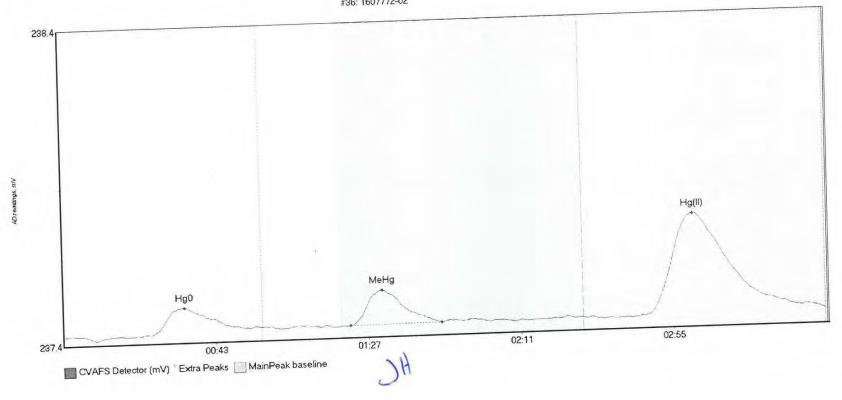
EPA1630

#35: 1607772-01



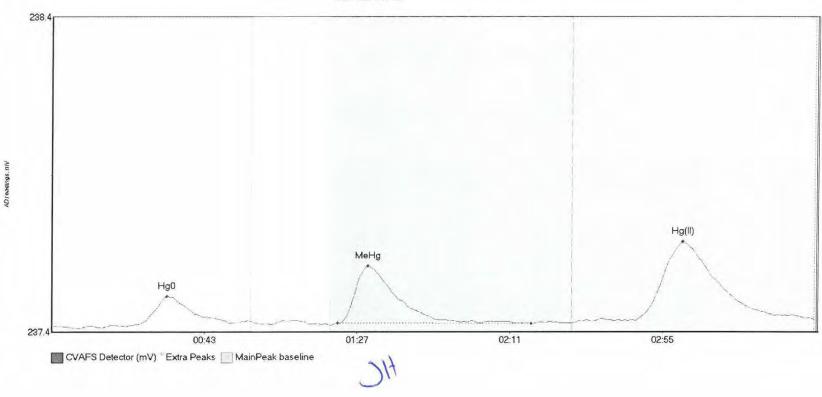
Name Area 1607772-01 Hg0 10.453 1607772-01 MeHg 18.569 1607772-01 Hg(1 59.694	Start Time 24.7 83.5 166.3	EndTime 57.5 116.0 218.5	StartValue 237.44 237.45 237.45	EndValue 237.45 237.44 237.46	Peak Max 33.7 91.0 181.8	PeakHeight 0.087 0.140 0.342	Flags CT OK OK	Baseline 237.4402 237.4402 237.4402	0.00	BlShift 0.02 0.02 0.02	Comment	016
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#36: 1607772-02



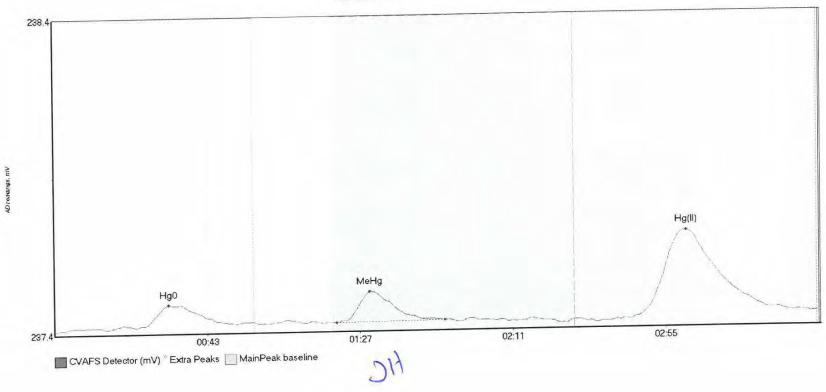
Name Area Start Time EndTime StartValue EndValue Peak Max Pea 1607772-02 Hg0 10.559 25.4 54.0 237.42 237.44 35.1 0.0 1607772-02 MeHg 13.194 82.9 109.2 237.43 237.44 92.2 0.1 1607772-02 Hg(I 59.446 168.0 219.8 237.44 237.45 181.8 0.3	.09 OK	Baseline 237.4239 237.4239 237.4239	B1Dev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	016
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#37: 1607772-03



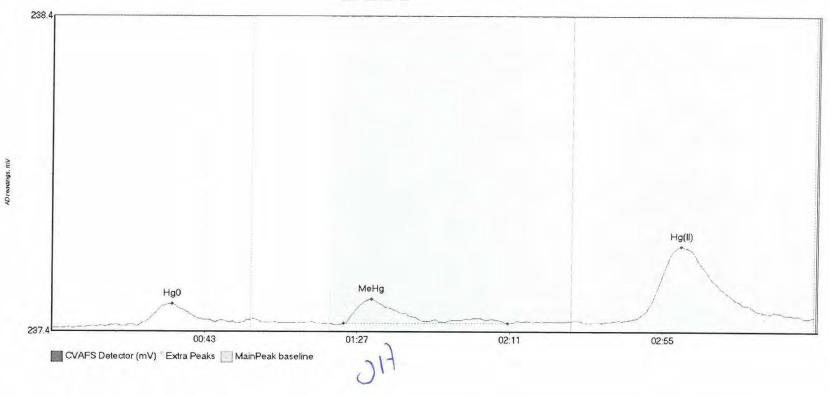
Name 1607772-03 Hq0	Area 10.368	Start Time	EndTime 51.4	StartValue 237.42		Peak Max 33.3		Flags	Baseline 237.4127		BlShift 0.02	Comment	202
1607772-03 MeHg		82.4	138.2		237.42	91.1	7.3777.7	OK	237.4127		0.02		016
1607772-03 Hg(I	46.679	150.1	219.8	237.42	237.44	181.8	0.258	CT	237.4127	0.00	0.02		

#38: 1607772-04



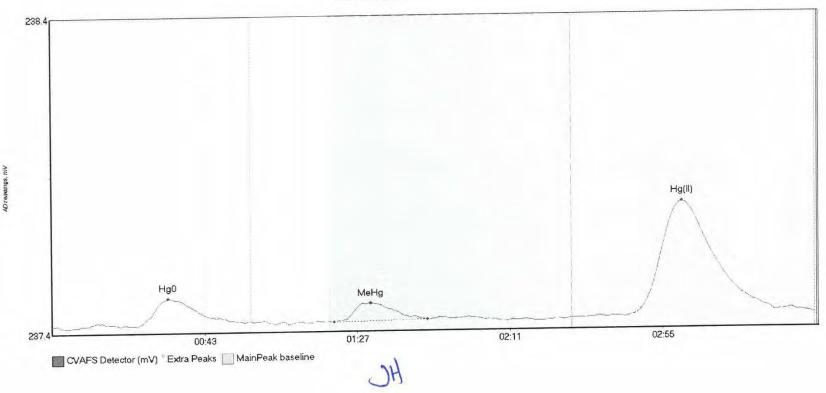
1607772-04 MeHg 10.929 81.3 112.5 237.42 237.42 90.9 0K 237.4011 0.00 0.03 1607772-04 Hg(I 49.373 166.3 218.2 237.42 237.43 182.0 0.279 0K 237.4011 0.00		10.929		52.5 112.5	StartValue 237.40 237.42 237.42	237.42	Peak Max 33.0 90.9 182.0	PeakHeight 0.075 0.098 0.279	Flags OK OK OK	Baseline 237.4011 237.4011 237.4011	0.00 0.00 0.00	0.03 0.03 0.03	COMMETTE	016
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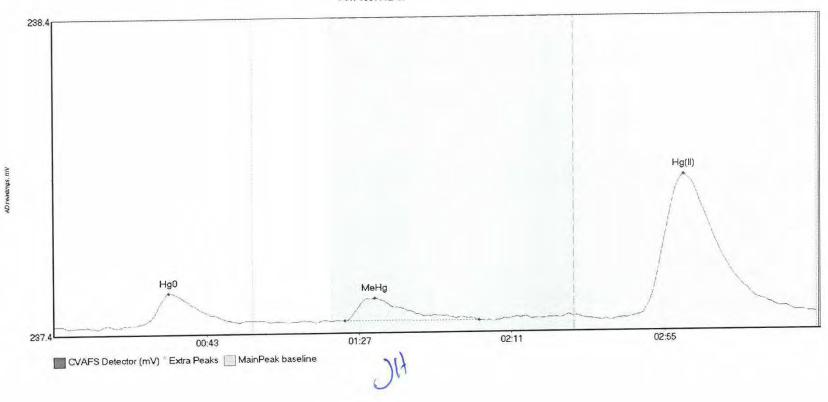
Name A:	rea	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607772-05 Hg0 7	.956	15.5	53.3	237.40	237.41	34.7	0.072	OK	237.3934		0.03	Conditione	
1607772-05 MeHg 1:	2.234	84.2	131.4	237.41	237.41	92.2	0.077	OK	237.3934	0.00	0.03		016
1607772-05 Hg(I 42	2.855	166.2	218.1	237.42	237.42	181.3	0.235	OK	237.3934	0.00	0.03		

#40: 1607772-06



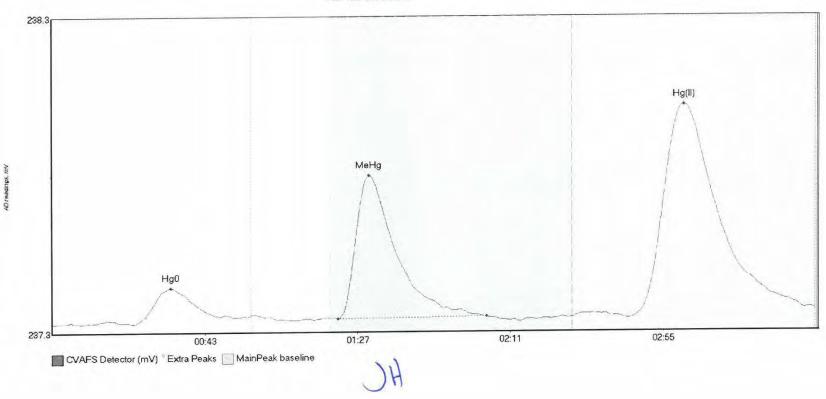
Name 1607772-06 Hg0 1607772-06 MeHg	7.402	Start Time 24.6 81.5	55.6 108.2	StartValue 237.40 237.40	EndValue 237.41 237.41 237.42	Peak Max 33.5 91.9 181.6	PeakHeight 0.087 0.060 0.364	Flags OK OK CT	Baseline 237.3991 237.3991 237.3991	0.00 0.00 0.00	0.02 0.02 0.02	Comment	016
1607772-06 Hg(I	65.082	165.3	219.8	237.41	231.42	101.0	0.301						

#41: 1607772-07



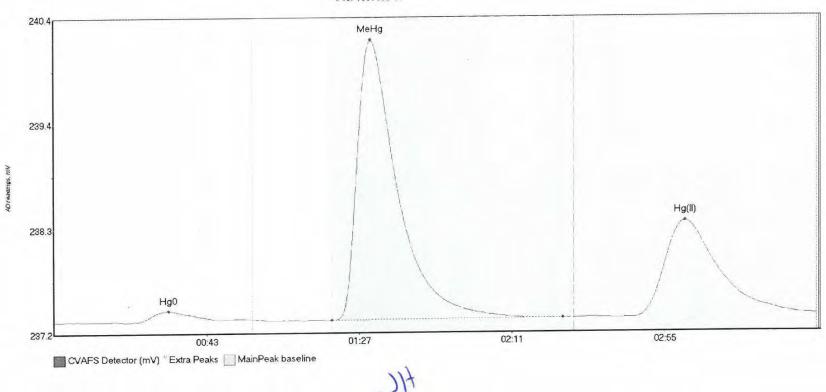
Name 1607772-07 Hg0 1607772-07 MeHg 1607772-07 Hg(1	11.641	Start Time 23.4 83.9 168.2	EndTime 53.2 122.6 219.7	237.40	EndValue 237.39 237.40 237.41	Peak Max 33.1 92.4 181.6	PeakHeight 0.102 0.071 0.443	Flags OK OK OK	237.3861 237.3861	0.00	BlShift 0.03 0.03 0.03	Comment	316
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#42: 1607586-04RE3



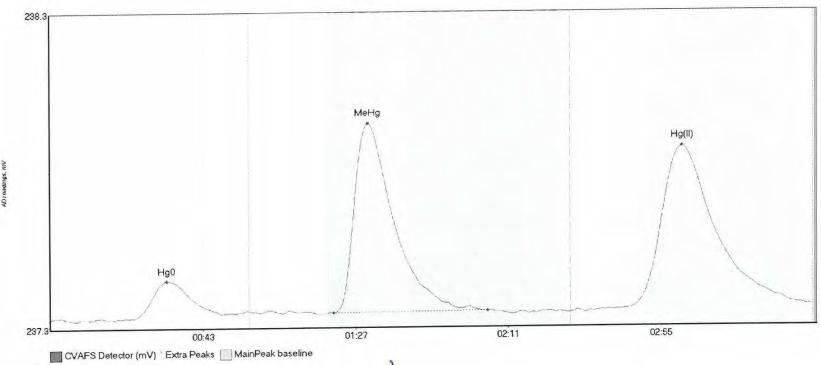
Name	Area	Start Time	EndTime	StartValue					Baseline 237.3729		BlShift 0.04	Comment	
1607586-04RE3 H	13 425	23.4	52.6	237.37	237.39	34.1	0.114	OK					016
		7.7.7		237.39	237.39	91.3	0.455	OK	237.3729	0.00	0.04		
1607586-04RE3 M	60.077	82.4	125.1					Cm	237.3729	0.00	0.04		
1607586-04RE3 H	120.436	166.0	219.8	237.39	237.42	182.0	0.676	CI	231.3129	0.00	0.01		

#43: 1607805-01



BlShift Comment PeakHeight Flags Baseline BlDev StartValue EndValue Peak Max Start Time EndTime Area 237.3701 0.00 0.05 0.108 CT 237.37 237.39 33.0 016 1607805-01 Hg0 13.338 1607805-01 MeHg 378.516 1607805-01 Hg(I 172.156 57.5 24.1 0.05 2.822 237.3701 0.00 237.39 91.3 237.38 146.8 80.1 237.3701 0.00 0.05 237.39 237.42 181.9 219.7 167.2

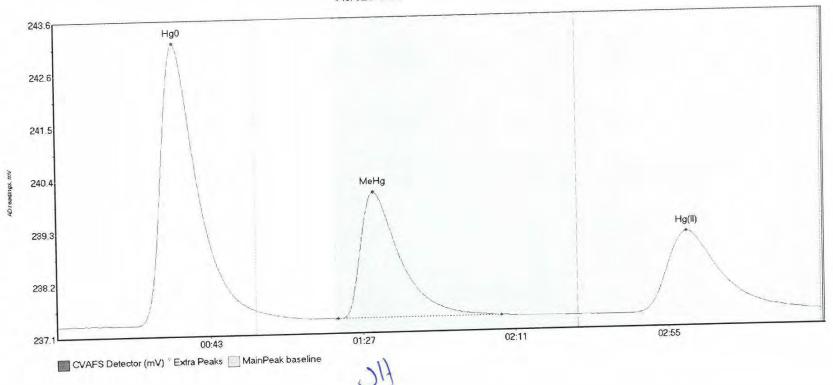




JH

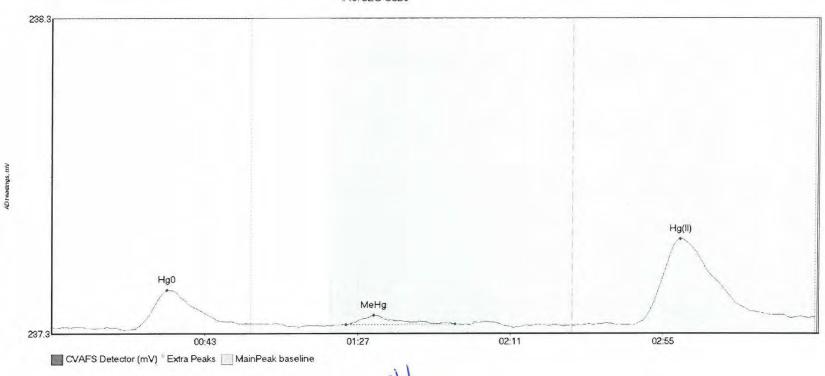
Name 1607805-02 Hg0 1607805-02 MeHg	78.640	Start Time 24.2 81.8 158.1	EndTime 49.7 126.2 219.8	StartValue 237.36 237.38 237.38	EndValue 237.37 237.38 237.39	Peak Max 33.6 91.6 182.2	PeakHeight 0.119 0.600 0.520	Flags OK OK CT	237.3619 237.3619	0.00 0.00 0.00	0.03 0.03 0.03	Comment	016	
1607805-02 Hg(]	92.358	158.1	219.8	231.30	231.33	102.2	0.000	GOD.						

#45: SEQ-CCV3



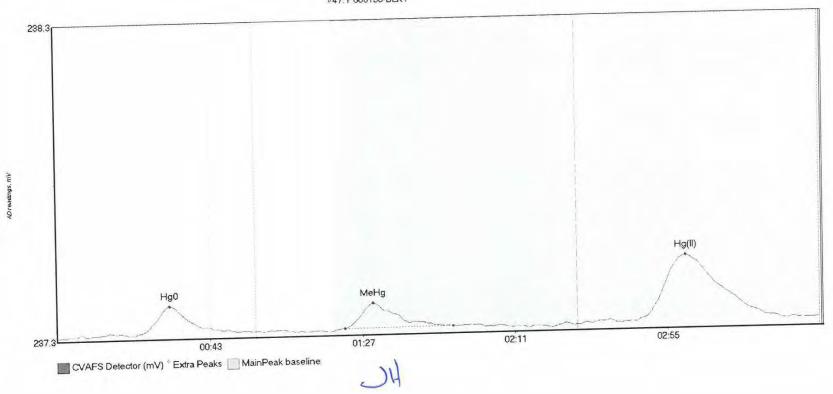
SEO_CCV3 Ha(II) 298.131 164.3 219.7 237.39 237.43 181.5 1.692		Area 672.167 343.435	Start Time 21.0 80.7	57.5 128.0	StartValue 237.35 237.42 237.39	EndValue 237.61 237.42 237.43	Peak Max 33.9 91.3 181.5	PeakHeight 5.832 2.611 1.692	Flags CT OK OK	Baseline 237.3521 237.3521 237.3521	B1Dev 0.00 0.00 0.00	BlShift 0.08 0.08 0.08	Comment)16
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#46: SEQ-CCB3



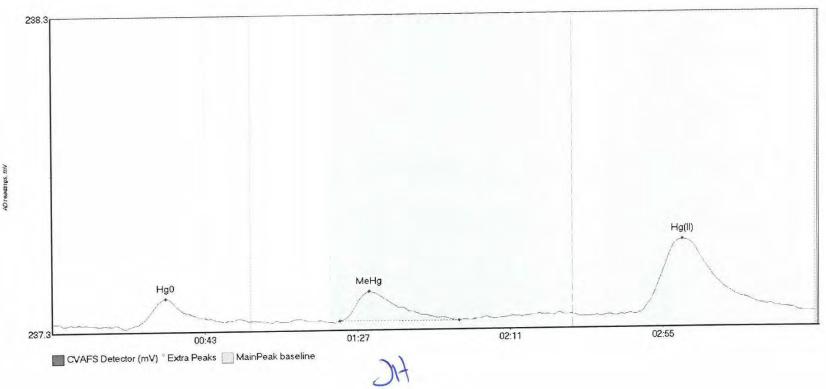
BlShift Comment Area 15.663 Start Time EndTime StartValue EndValue Peak Max PeakHeight Flags Baseline BlDev 237.34 237.36 33.0 0.124 OK 237.3453 0.00 0.03 SEQ-CCB3 Hg0 23.2 54.6 016 0.030 237.3453 0.00 237.3453 0.00 237.36 SEQ-CCB3 MeHg 3.548 84.6 116.1 237.35 92.6 OK 0.03 SEQ-CCB3 Hg(II) 45.905 167.2 213.0 237.35 237.38 181.1

#47: F608155-BLK1



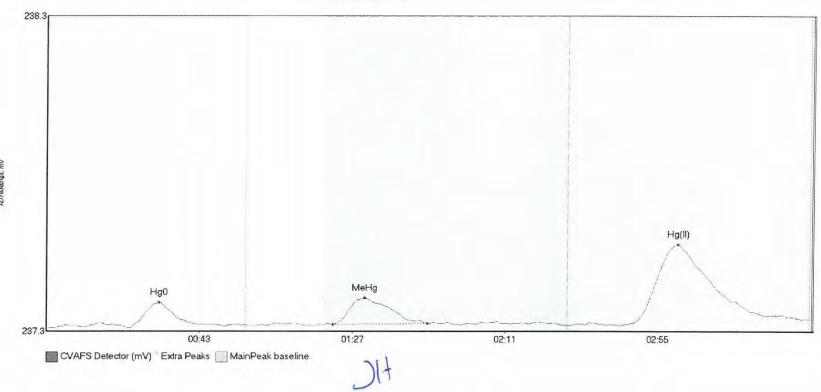
Name F608155-BLK1 H0 F608155-BLK1 M0 F608155-BLK1 H0	≥ 9.137	82.9	EndTime 56.3 114.2 210.3	StartValue 237.34 237.35 237.35	EndValue 237.35 237.35 237.36	Peak Max 32.5 91.0 181.3	PeakHeight 0.091 0.080 0.211	Flags OK OK OK	Baseline 237.3383 237.3383 237.3383	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment)16
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#48: F608155-BLK2



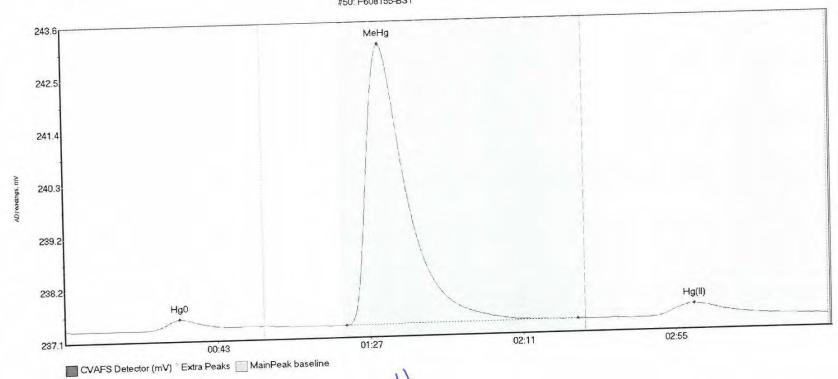
Name F608155-BLK2 Hg F608155-BLK2 Me	12.920	Start Time 22.7 82.9 168.1	EndTime 48.3 117.3 219.0	StartValue 237.32 237.34 237.35	EndValue 237.34 237.33 237.35	Peak Max 32.7 91.3 181.7	PeakHeight 0.089 0.093 0.236	Flags OK OK OK	Baseline 237.3339 237.3339 237.3339	B1Dev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	016
F608155-BLK2 Ha	42.321	168.1	219.0	231.33	201.00	- a-e							

#49: F608155-BLK3



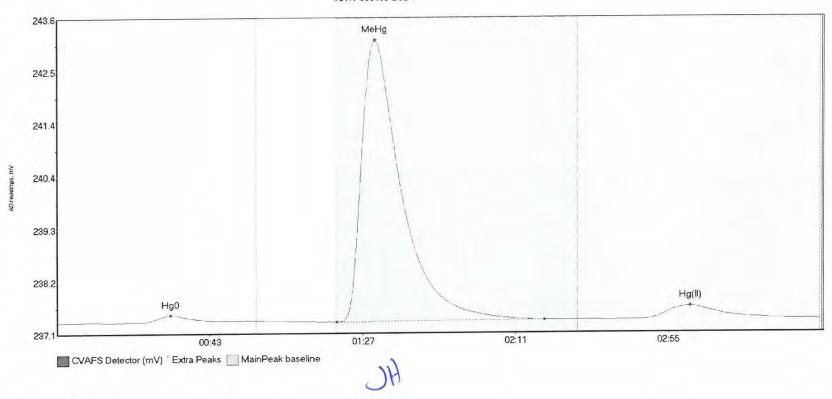
Name 7	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F608155-BLK3 Hg 7	7.924	23.9	50.9	237.32	237.33	32.5	0.080	OK	237.3250	0.00	0.03		016
F608155-BLK3 Me	10.996	82.5	109.7	237.33	237.34	91.6	0.084	OK	237.3250	0.00	0.03		716
F608155-BLK3 Hg 4	44.445	167.4	217.6	237.34	237.35	181.9	0.252	OK	237.3250	0.00	0.03		

#50: F608155-BS1



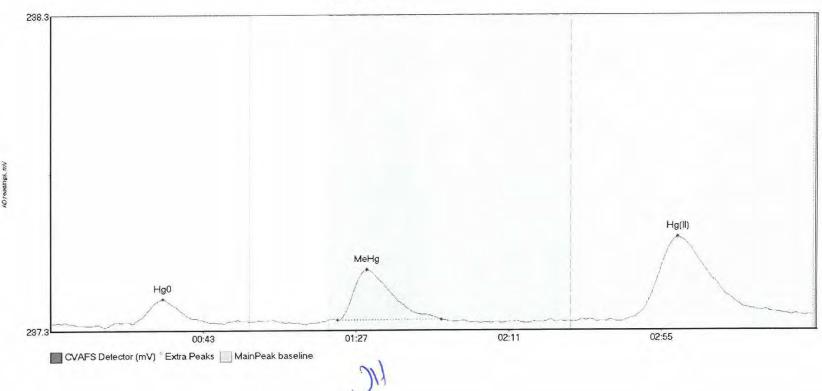
11





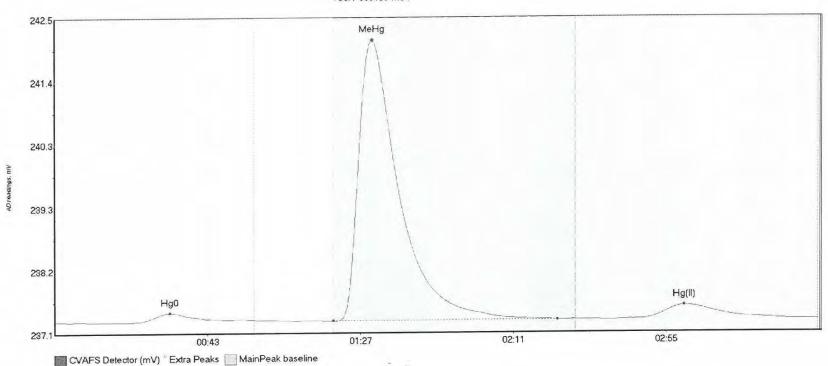
Name / F608155-BSD1 Hg :	Area	Start Time 23.2	EndTime	StartValue 237.33		Peak Max 32.7	PeakHeight 0.143	Flags OK	Baseline 237.3231	BlDev 0.00	BlShift 0.03	Comment	016
F608155-BSD1 Me		80.4	140.3			91.4	5.836	OK			0.03		320
F608155-BSD1 Hg		167.8	219.3	237.35	237.35	182.3	0.272	OK	237.3231	0.00	0.03		





F608155-DUP1 Hg F608155-DUP1 Me	7.599 19.869	82.7	45.7 112.6	237.32 237.33	237.32 237.33	32.4 91.1	0.078 0.160	OK OK	237.3224 237.3224	0.00	BlShift 0.02 0.02 0.02	Comment	016
F608155-DUP1 Hg		164.8	217.3	237.33	237.35	180.8	0.266	OK	237.3224	0.00	0.02		





Name		Area
F608155-MS1	Hg0	17.267
F608155-MS1	Мен	645.632
F608155-MS1	Hg(39.712

Start Time EndTime 24.1 57.5 144.7 80.1 166.8 209.7

StartValue EndValue 237.34 237.32 237.32 237.34 237.33 237.34

Peak Max 33.3 91.4 181.2

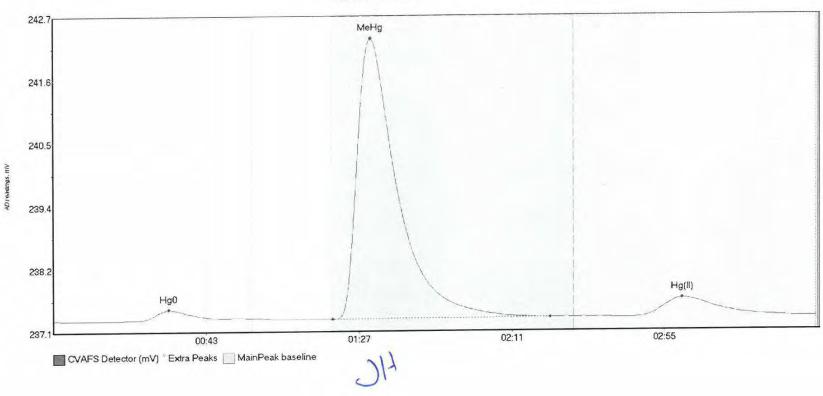
PeakHeight Flags 0.148 CT OK 4.798 0.235 OK

Baseline BlDev 237.3150 0.00 237.3150 0.00 237.3150 0.00

BlShift Comment 0.02 0.02 0.02

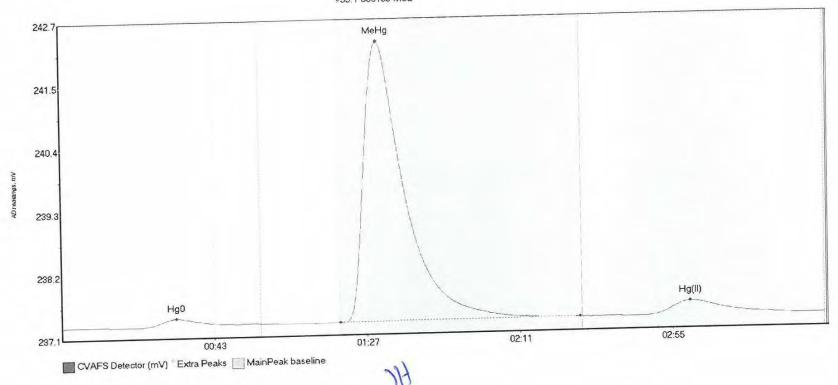
016





F608155-MSD1 Hg	Start Time 24.7	EndTime 48.9 143.0	StartValue 237.31 237.31		Peak Max 33.3 91.5	PeakHeight 0.188 5.033	Flags OK OK	Baseline 237.3053 237.3053	0.00	BlShift 0.03 0.03	Comment	016	
F608155-MSD1 Me F608155-MSD1 Hg	80.4 167.3	214.3	237.31	237.33	181.2	0.340	OK	237.3053		0.03			

#55: F608155-MS2



Name		Area	
F608155-MS2			
F608155-MS2			
F608155-MS2	Hg (40.836	

	Time	EndTime
22.5		149.3
168.6		210.2

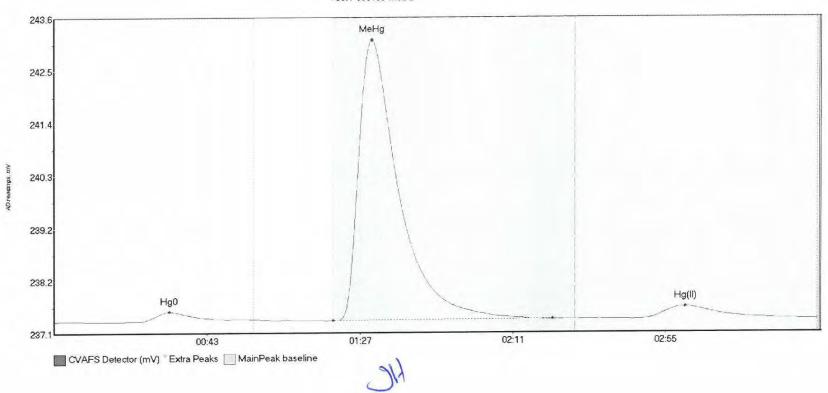
StartValue	EndValue	Pea
237.30	237.33	33.
237.32	237.34	91.
237.32	237.34	181
231.33	231.33	101

ak Max	PeakHeight	Fla
. 2	0.142	CT
. 4	4.936	OK
1.1	0.248	OK

Baseline	B11
237.3054	0.
237.3054	0.
237.3054	0.

ne	BlDev	
54	0.00	
54	0.00	
54	0.00	





Name		Area
F608155-MSD2	Hg	21.560
F608155-MSD2	Ме	781.097
F608155-MSD2	Hg	42.186

Start Time EndTime 56.6 22.9 143.5 168.2 209.5

StartValue EndValue 237.31 237.35 237.32 237.35 237.35 237.34

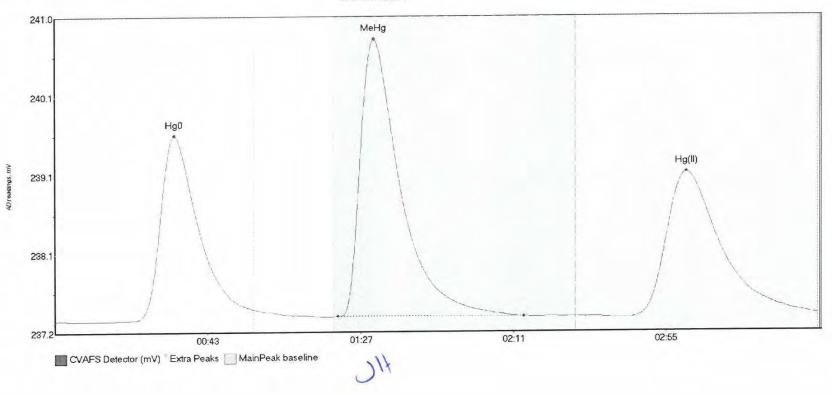
33.2 91.4 181.7

Peak Max PeakHeight Flags 0.198 OK OK 5.827 0.255 OK

Baseline 237.3058 BlDev 0.00 237.3058 0.00 237.3058 0.00

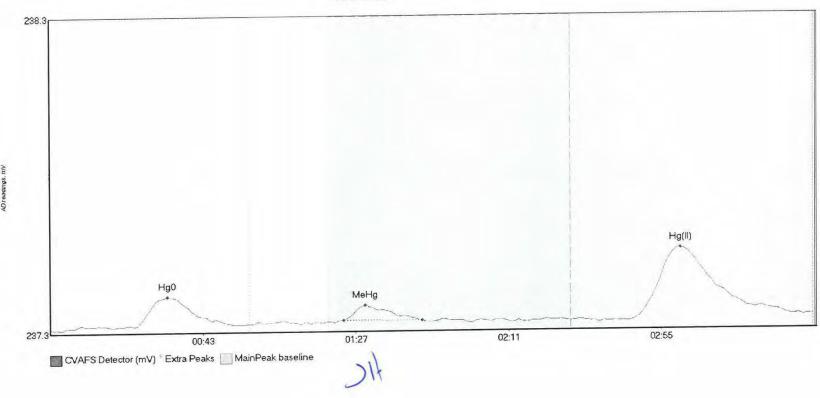
BlShift Comment 0.04 0.04 0.04

#57: SEQ-CCV4



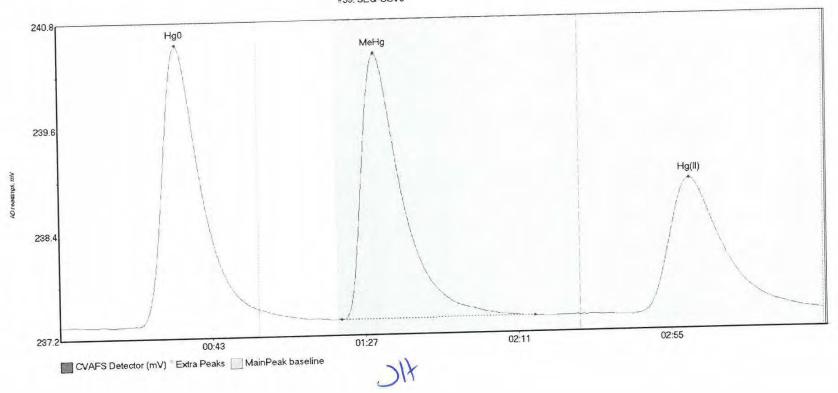
Name	Area	Start Time	EndTime 57.5	StartValue	EndValue 237.44	Peak Max 34.4	PeakHeight 2.269	Flags CT	Baseline 237.3090		BlShift 0.08	Comment	016
SEO-CCV4 Hg0	269.921	20.1	31.3					15.00	000 0000	0 00	0 00		270
	AEE 204	81.5	134.9	237.36	237.35	91.7	3.400	OK	237.3090	0.00	0.08		
SEQ-CCV4 MeHg	455.294	01.5			20.00			OM	237.3090	0 00	0.08		
SEO-CCV4 Ha(II)	315.371	165.2	219.8	237.34	237.38	181.9	1.781	CT	237.3090	0.00	0.00		

#58: SEQ-CCB4



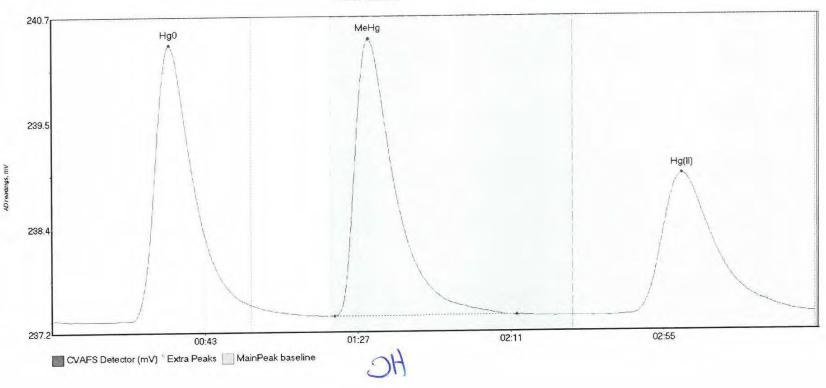
Name SEQ-CCB4 Hg0 SEQ-CCB4 MeHg SEO-CCB4 Hg(II)	Area 12.985 5.373 41.996	Start Time 18.7 84.5 166.6	EndTime 54.6 107.2 217.1	StartValue 237.31 237.33 237.32	EndValue 237.32 237.33 237.34	Peak Max 33.9 90.8 181.6	PeakHeight 0.096 0.048 0.231	Flags OK OK OK	Baseline 237.3098 237.3098 237.3098	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
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#59: SEQ-CCV5



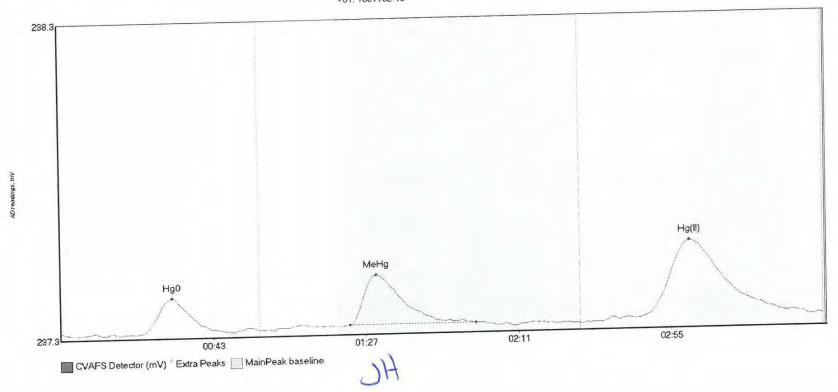
Name SEQ-CCV5 Hg0 SEQ-CCV5 MeHg SEO-CCV5 Hg(II)	Area 393.029 413.962 277.801	Start Time 22.5 81.0 165.0	EndTime 57.5 136.8 219.8	StartValue 237.32 237.36 237.35	EndValue 237.49 237.36 237.39	Peak Max 34.0 91.2 181.4	PeakHeight 3.266 3.095 1.579	Flags CT OK CT	Baseline 237.3175 237.3175 237.3175	BlDev 0.00 0.00 0.00	BlShift 0.07 0.07 0.07	Comment	316
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#60: SEQ-CCV6



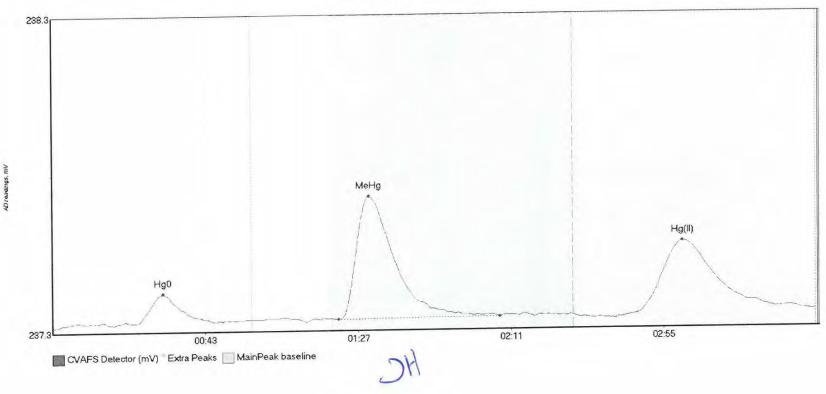
SEQ-CCV6 Hg(II) 277.428 162.7 219.8 237.36 237.39 181.3 1.584 CI 237.3234 0.00	SEQ-CCV6 MeHg		Start Time 22.6 81.3 162.7	57.5 133.7	StartValue 237.32 237.36 237.36	EndValue 237.48 237.36 237.39	Peak Max 33.8 91.1 181.3	PeakHeight 3.080 3.095 1.584	Flags CT OK CT	Baseline 237.3254 237.3254 237.3254	0.00	BlShift 0.06 0.06 0.06	Comment	01
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#61: 1607782-15



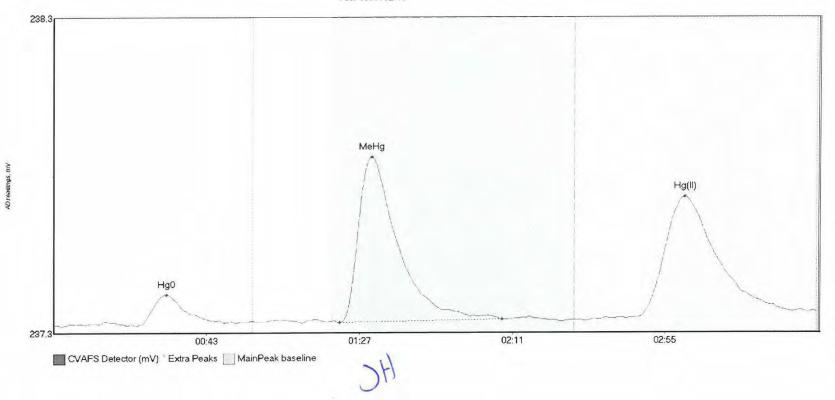
Name 1607782-15 Hg0 1607782-15 MeHc 1607782-15 Hg(20.065	Start Time 23.1 83.5 156.4	EndTime 43.8 119.6 217.0	StartValue 237.32 237.34 237.33	EndValue 237.33 237.34 237.34	Peak Max 32.3 91.2 181.3	PeakHeight 0.112 0.159 0.254	Flags OK OK OK	Baseline 237.3259 237.3259 237.3259	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	016
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#62: 1607782-16



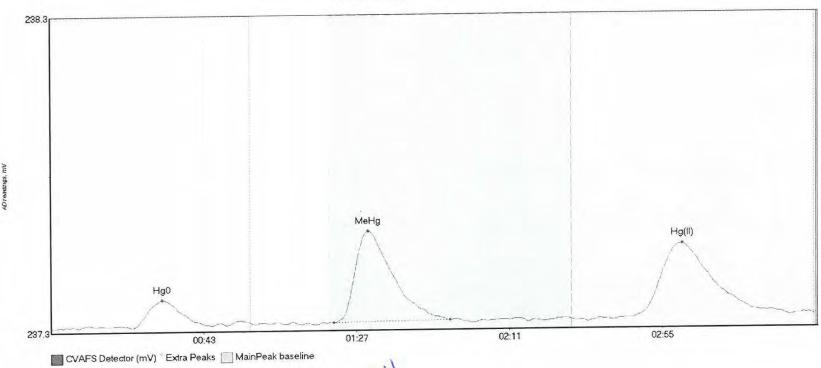
Name 1607782-16 Hg0 1607782-16 MeHg 1607782-16 Hg(49.593	Start Time 1.8 82.3 166.4	EndTime 47.1 128.8 218.7	StartValue 237.32 237.33 237.34	EndValue 237.33 237.34 237.35	Peak Max 31.8 91.2 181.5	PeakHeight 0.102 0.391 0.234	Flags OK OK OK	Baseline 237.3147 237.3147 237.3147	BlDev 0.00 0.00 0.00	BlShift 0.04 0.04 0.04	Comment	316
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#63: 1607782-17



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline		BlShift	Comment	
1607782-17 Hg0	10.382	23.7	52.4	237.33	237.34	32.6	0.099	OK	237.3305	0.00	0.04		016
1607782-17 MeHq			129.0	237.34	237.35	91.6	0.525	OK	237.3305	0.00	0.04		210
1607782-17 Hg (I			217.5	237.35	237.37	181.8	0.388	OK	237.3305	0.00	0.04		





Name Area 1607782-18 Hg0 9.155 1607782-18 MeHg 35.891 1607782-18 Hg(I 39.378

Start Time EndTime 23.5 46.4 114.9 81.5 212.8

StartValue EndValue 237.34 237.34 237.35 237.36 237.35 237.36

Peak Max 32.2 91.5 181.7

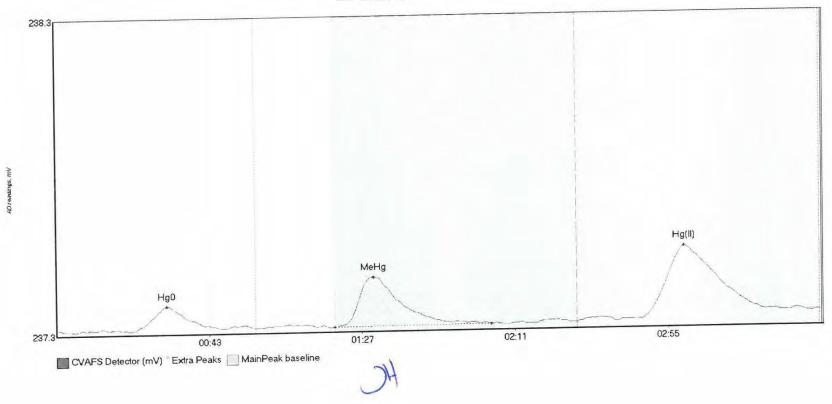
PeakHeight Flags 0.089 OK 0.290 OK 0.235 OK

Baseline BlDev 237.3365 0.00 237.3365 0.00 237.3365 0.00

0.03 0.03 0.03

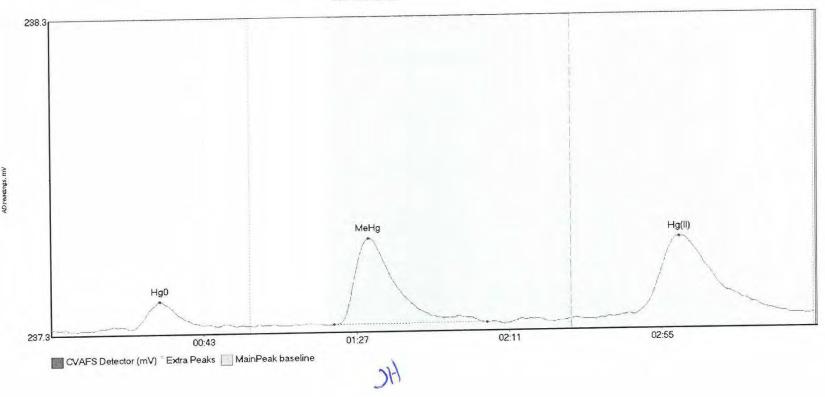
BlShift Comment

#65: 1607782-19



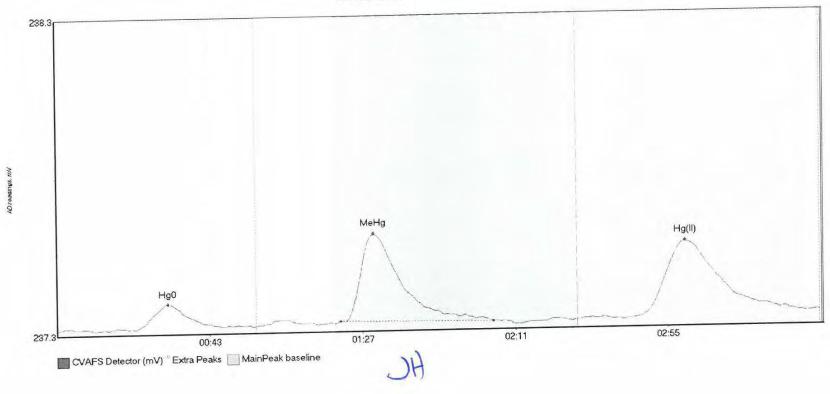
Name Area 1607782-19 Hg0 7.998 1607782-19 MeHg 22.189 1607782-19 Hg(I 38.370	80.1	EndTime 46.8 125.1 217.6	StartValue 237.34 237.35 237.36	EndValue 237.35 237.35 237.38	Peak Max 31.8 91.5 180.8	PeakHeight 0.078 0.158 0.230	Flags OK OK	Baseline 237.3502 237.3502 237.3502	BlDev 0.00 0.00 0.00	0.03 0.03 0.03	Comment	016
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#66: 1607782-20



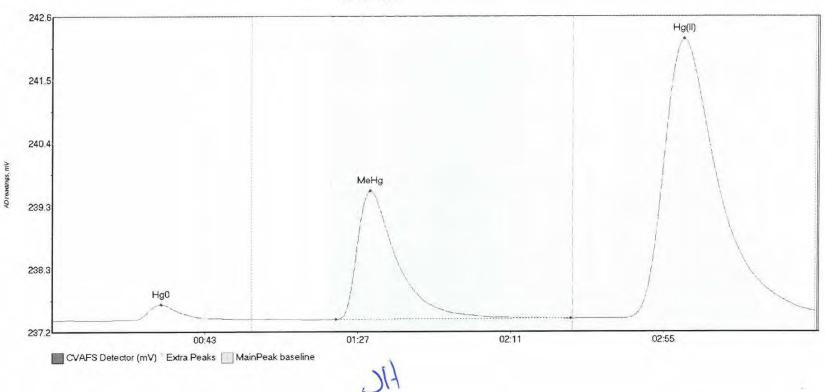
Name 1607782-20 Hg0 1607782-20 MeHg 1607782-20 Hg(I	37.361	Start Time 23.7 81.4 163.2	EndTime 47.7 125.6 218.4	StartValue 237.36 237.36 237.38	EndValue 237.36 237.36 237.38	Peak Max 31.5 91.4 181.0	PeakHeight 0.086 0.273 0.250	Flags OK OK OK	Baseline 237.3564 237.3564 237.3564	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
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#67: 1607782-21



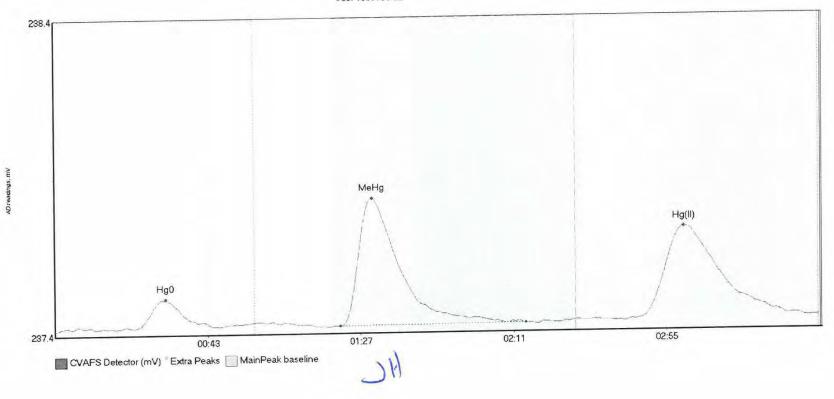
Name 1607782-21 Hg0 1607782-21 MeHg 1607782-21 Hg(I	37.233		EndTime 56.8 125.6 216.1	StartValue 237.37 237.38 237.38	EndValue 237.37 237.38 237.39	Peak Max 32.0 91.3 181.0	PeakHeight 0.080 0.276 0.239	Flags OK OK OK	Baseline 237.3654 237.3654 237.3654	0.00 0.00 0.00	0.03 0.03 0.03	Comment	016
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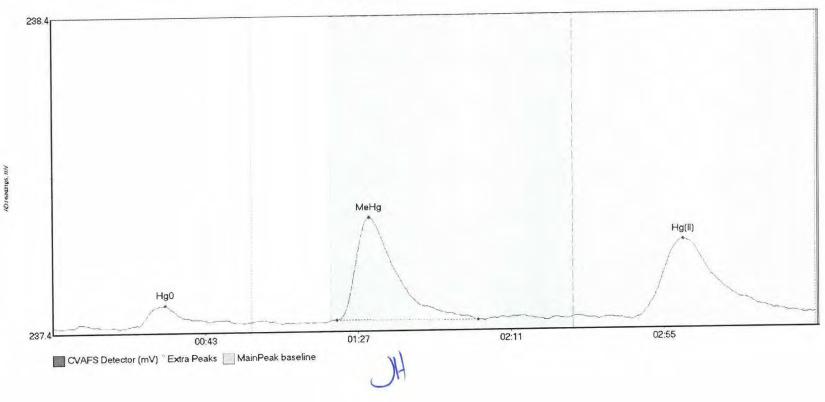
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607783-01 Hg0	29.032	16.2	57.5	237.37	237.38	31.6	0.271	CT	237.3692	0.00	0.16		216
1607783-01 MeHa			149.5	237.38	237.39	91.6	2.204	OK	237.3692	0.00	0.16		210
1607783-01 Hg (T			219.8	237.40	237.52	181.8	4.795	CT	237.3692	0.00	0.16		

#69: 1607783-02



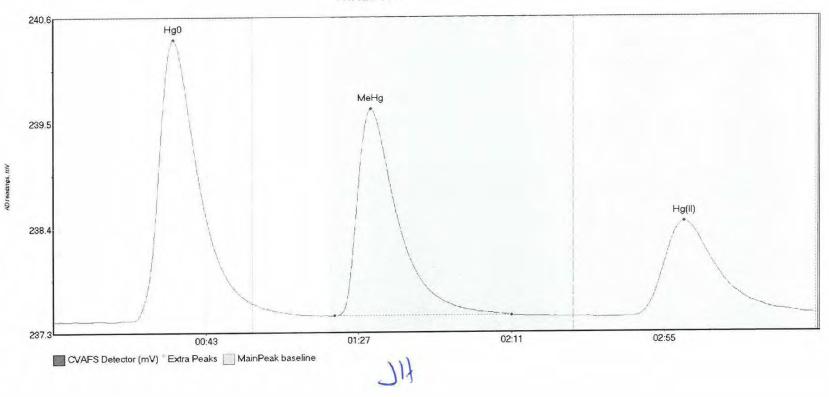
Name 1607783-02 Hg0 1607783-02 MeHg	54.694	82.1	47.3 135.4	StartValue 237.39 237.39 237.41	EndValue 237.40 237.40 237.41	Peak Max 31.9 91.5 181.0	PeakHeight 0.092 0.404 0.292	Flags OK OK OK	Baseline 237.3879 237.3879 237.3879	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
1607783-02 Hg(I		167.1	216.2	237.41	237.41	181.0	0.292	ON	231.30(2	0.00			

#70: 1607783-03



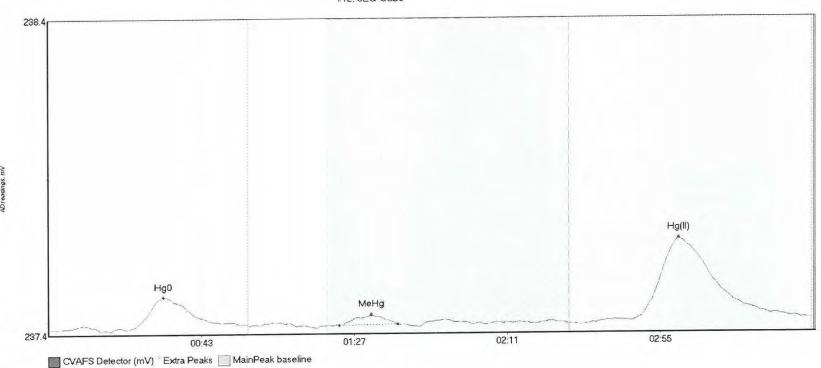
Name 1607783-03 Hg0 1607783-03 MeH- 1607783-03 Hg(43.298	Start Time 24.9 81.9 167.3	EndTime 55.1 122.6 216.8	StartValue 237.40 237.41 237.41	EndValue 237.41 237.41 237.42	Peak Max 32.6 91.3 181.6	PeakHeight 0.062 0.326 0.253	Flags OK OK OK	Baseline 237.3987 237.3987 237.3987	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
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#71: SEQ-CCV7



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline		BIShirt	Comment	
SEQ-CCV7 Hg0			57.5		237.60	34.7	2.991	CT	237.4097	0.00	0.08		016
			132.0	237.47	237.47	91.6	2.199	OK	237.4097	0.00	0.08		310
SEQ-CCV7 MeHg		81.1					1.010	Cut	237.4097	0.00	0.08		
SEQ-CCV7 Hg(II)) 175.968	167.2	219.8	237.45	237.49	181.8	1.010	C1	231.4031	0.00	0.00		

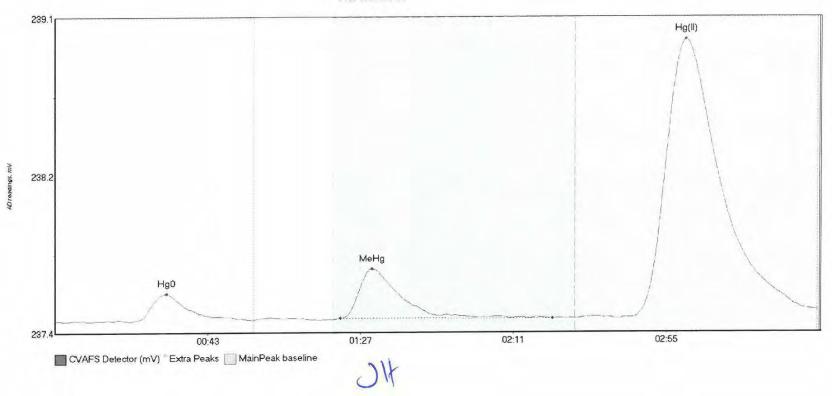
#72: SEQ-CCB5





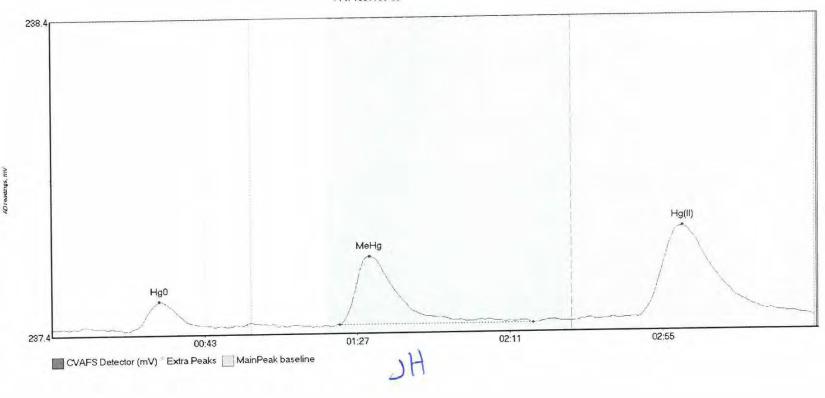
Name SEQ-CCB5 Hg0 SEQ-CCB5 MeHg	12.855	Start Time 24.1 83.8	57.5 100.6	237.44 237.44	237.44 237.45	33.2 93.0	0.100	OK OK	237.4333		0.03 0.03 0.03	Consider	016
SEQ-CCB5 Heng			219.3	237.45	237.46	181.3	0.266	OK	237.4333	0.00	0.03		

#73: 1607783-04



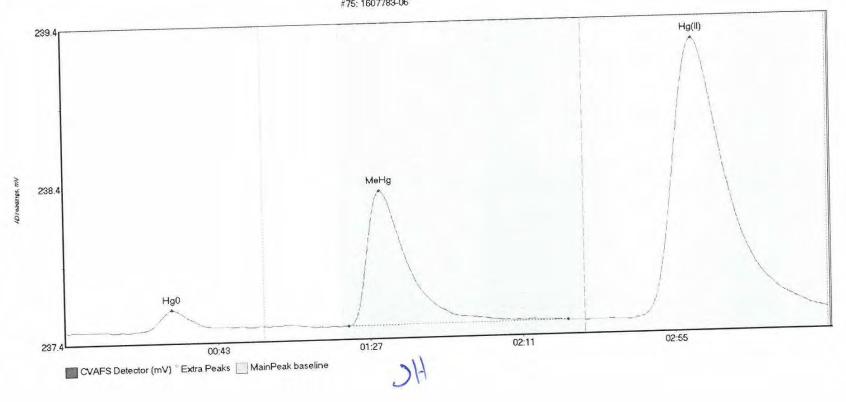
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags			BlShift	Comment	
1607783-04 Hg0	16.457	23.6	55.5	237.45	237.46	32.3	0.143	OK	237.4522	0.00	0.06		016
1607783-04 MeHq		82.3	143.4	237.46	237.46	91.5	0.267	OK	237.4522	0.00	0.06		310
1607783-04 Hg(I		165.8	219.2	237.47	237.51	181.6	1.490	OK	237.4522	0.00	0.06		

#74: 1607783-05



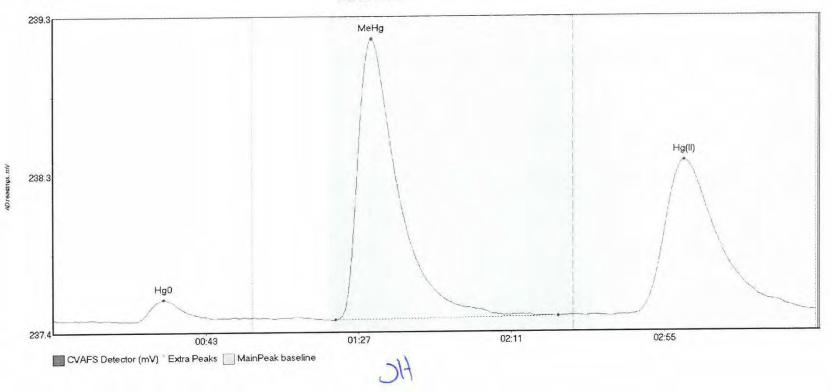
Name Ar 1607783-05 Hg0 8. 1607783-05 MeHg 30	.980 22. 0.439 83.	2	EndTime 46.8 138.8 219.8	StartValue 237.46 237.48 237.49	EndValue 237.47 237.48 237.49	Peak Max 31.2 91.6 181.7	PeakHeight 0.095 0.217 0.294	Flags OK OK CT	Baseline 237.4686 237.4686 237.4686	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	016
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#75: 1607783-06



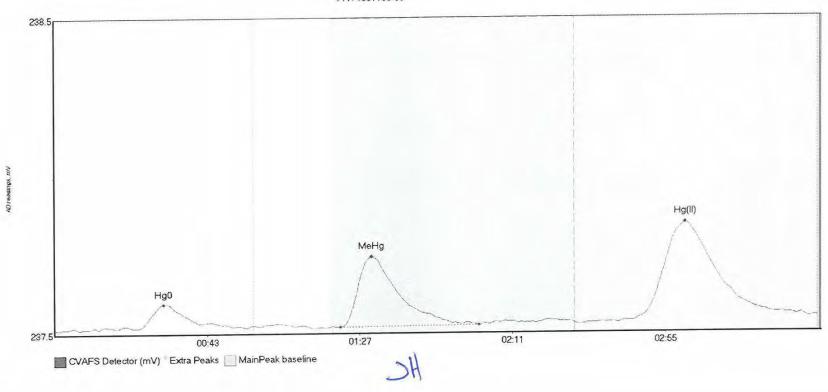
Name Area 1607783-06 Hg0 12.700 1607783-06 MeHg 113.82 1607783-06 Hg(I 309.86	81.9	EndTime 53.0 145.0 219.8	StartValue 237.48 237.49 237.49	EndValue 237.49 237.49 237.54	Peak Max 30.9 91.2 181.5	PeakHeight 0.129 0.849 1.761	Flags OK OK CT	Baseline 237.4807 237.4807 237.4807	B1Dev 0.00 0.00 0.00	BlShift 0.06 0.06 0.06	Comment	016	
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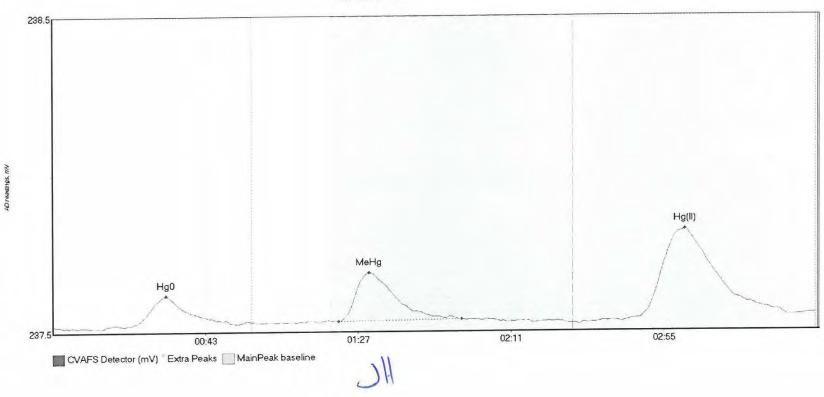
Name 1607783-07 Hg0	Area 12.393	Start Time	EndTime 46.6	StartValue 237.49	EndValue 237.50	Peak Max 31.9	PeakHeight 0.128	Flags OK	237.4974	0.00	BlShift 0.04	Comment	016
1607783-07 MeHg 1607783-07 Hg(I	220.249		145.6 219.8	237.49 237.52	237.51 237.54	91.7 181.7	1.642	OK CT	237.4974 237.4974	0.00	0.04		

#77: 1607783-08



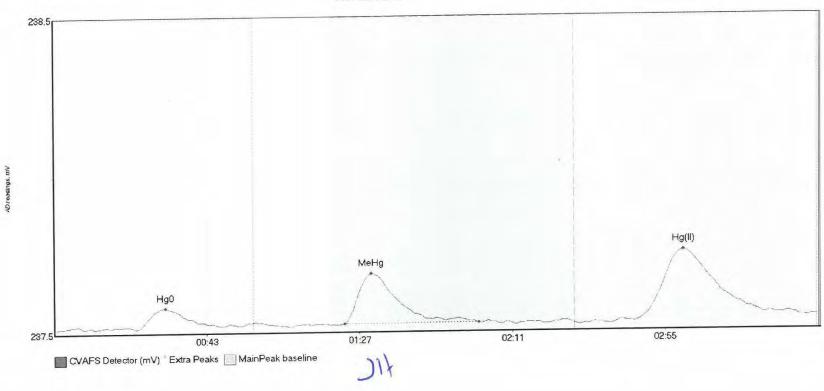
Name 1607783-08 Hg0 1607783-08 MeH 1607783-08 Hg(29.671	Start Time 24.0 82.6 162.3	EndTime 55.5 122.3 217.3	StartValue 237.51 237.51 237.52	EndValue 237.51 237.51 237.54	Peak Max 31.5 91.5 181.8	PeakHeight 0.077 0.223 0.316	Flags OK OK OK	Baseline 237.5024 237.5024 237.5024	BlDev 0.00 0.00 0.00	B1Shift 0.04 0.04 0.04	Comment	016
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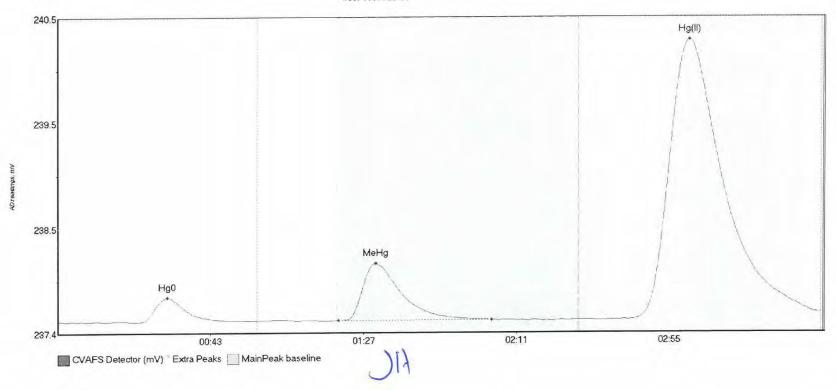
Name 1607783-09 Hg0 1607783-09 MeHg 1607783-09 Hg(I	19.884	Start Time 22.6 82.5 156.4	EndTime 53.3 117.8 212.2	StartValue 237.53 237.54 237.53		Peak Max 32.7 91.2 182.0	PeakHeight 0.094 0.156 0.293	Flags OK OK OK	237.5270	0.00	0.04 0.04 0.04	Comment	016
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#79: 1607783-10



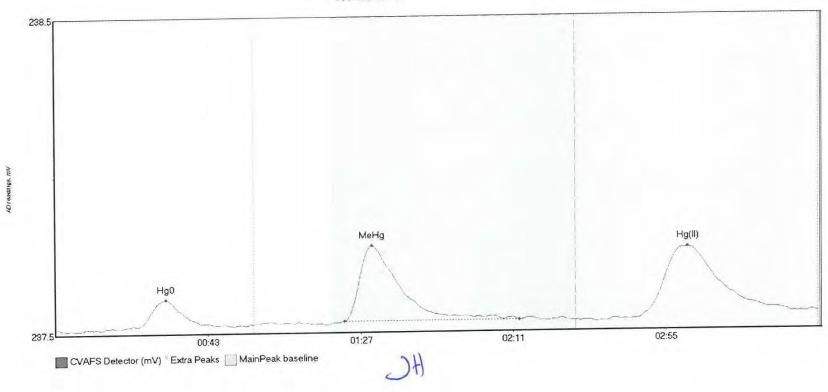
Name 1607783-10 Hg0 1607783-10 MeHg 1607783-10 Hg(I	20.750	Start Time 23.7 83.7 160.5	EndTime 53.8 122.3 217.0	StartValue 237.55 237.56 237.55	EndValue 237.55 237.56 237.57	Peak Max 32.1 91.4 181.3	PeakHeight 0.066 0.160 0.231	Flags OK OK OK	Baseline 237.5431 237.5431 237.5431	0.00 0.00 0.00	0.03 0.03 0.03	Comment	016
1607783-10 Hg(1	40.41/	160.5	217.0	201.00	M-511 5-51								





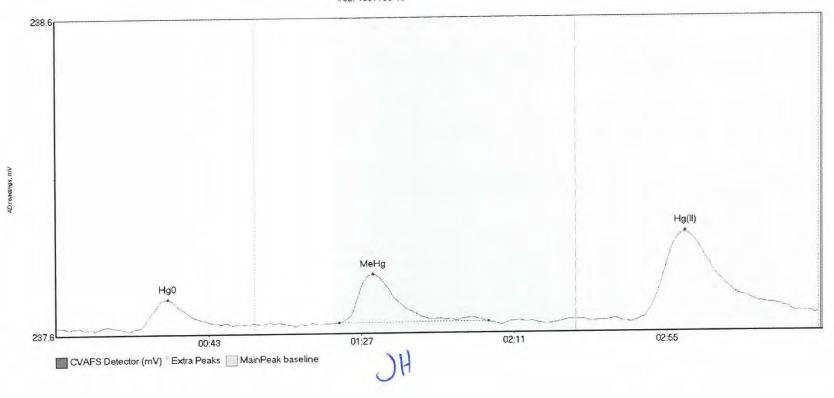
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607783-11 Hg0		23 6	49.2	237.56	237.56	31.6	0.231	OK	237.5597	0.00	0.08		316
1607783-11 Mg0		80.8	124.9		237.57	91.6	0.545	OK	237.5597	0.00	0.08		310
1607783-11 Hell		165.3	219.7	237.57	237.64	181.7	2.672	OK	237.5597	0.00	0.08		

#81: 1607783-12



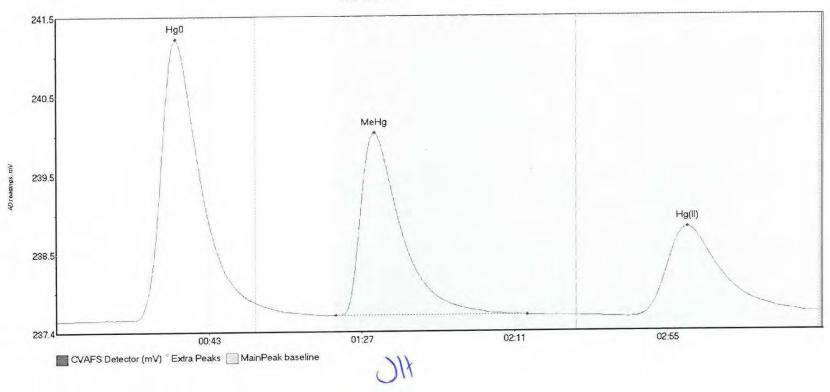
Name 1607783-12 Hg0 1607783-12 MeHg 1607783-12 Hg(1	31.760	Start Time 21.1 83.3 167.3	EndTime 51.7 133.7 213.9	StartValue 237.57 237.58 237.58	EndValue 237.57 237.58 237.60	Peak Max 31.8 91.3 182.3	PeakHeight 0.087 0.239 0.226	Flags OK OK OK	Baseline 237.5655 237.5655 237.5655	0.00 0.00 0.00	0.04 0.04 0.04	Comment	016
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#82: 1607783-13



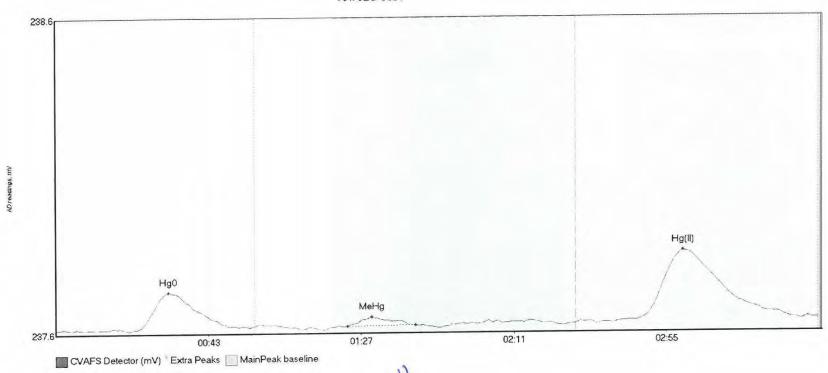
Name 1607783-13 Hg0 1607783-13 MeHg 1607783-13 Hg(I	19.864	Start Time 24.0 81.8 165.5	EndTime 51.0 124.7 218.8	StartValue 237.58 237.60 237.59	EndValue 237.59 237.60 237.62	Peak Max 32.1 91.5 181.4	PeakHeight 0.091 0.154 0.285	Flags OK OK OK	Baseline 237.5866 237.5866 237.5866	0.00	0.03 0.03 0.03	commenc	016	
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#83: SEQ-CCV8



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline		BlShift	Comment	
SEQ-CCV8 Hg0			57.5		237.82	34.4	3.650	CT			0.09		016
SEQ-CCV8 MeHg			135.7	237.66	237.66	91.7	2.375	OK			0.09		
SEO-CCV8 Hg(II		166.9	218.1	237.64	237.68	181.8	1.157	OK	237.5950	0.00	0.09		

#84: SEQ-CCB6



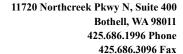
Name SEQ-CCB6 Hg0	Area 15.454	Start Time 23.7	EndTime 55.8	20,102	237.63	32.6	0.117	OK OK	Baseline 237.6219 237.6219	0.00 0.00	0.03 0.03	Comment	016
SEQ-CCB6 MeHg		84.1	103.7	237.63	237.63	91.1 180.7	0.029	OK	237.6219	0.00	0.03		
SEC-CCB6 Ha(II)	41.567	164.3	214.8	237.64	231.03	100.7	0.222	0.11					

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2015 Rev 5 (08/06/2015)

nalyst: deviewer: Date: datch #(s):	Ryan Nelson Jeanel Herr F608273, F608155	el	Sequence #: Dataset ID #: WO #: Client(s):		6H12010, MHg27001 Vari	-160816-1 ous	याहा है स	
	the correct preparation	on method.	chenicoj.	Additional Comments				
	Prep							
Analyte	Method	Matrix						
✓ MHg	FGS-013 MHg Distillation KOH/MeOH	Water						
☐ MHg	FGS-010 Digest	Tissue						
MHg	FGS-045 MeCl Extraction	Sed/Soil						
☐ DMHg	FGS-098 (None Accredited method)	ALL						
					Analyst In	itials:	Reviewer	Initials:
Compare S	ample ID with Bench she	eet/Seauence	/Raw Data (Have all s	amples been imported?)	✓ YES	□ NO		9
	ranscription errors from				✓ YES	□ NO		
	er: 100% of peak height				YES	□ NO		
	re peak height errors?	2020/2017/201			YES	NO	-	
	n a sample: Do peak hei	iahts, respons	ses. & initial results m	atch corrected data?	YES	□ NO	N/A	
	n a Cal Pt, ICB/CCB, or				YES	□ NO	☐ N/A	P
	standards & reagents in				YES	☐ NO	☐ N/A	2
	and compare masses (rev				YES	□ NO	□ N/A	
	and compare initial and f				✓ YES	☐ NO	□ N/A	
	uots and dilutions writte			ccel?	✓ YES	□ NO	□ N/A	
	H>3.0 for all distilled sa		icat materi triosa m =		✓ YES	□ NO	□ N/A	
	equence #, analyst, date		ment # on the OC pag	e?	✓ YES	□ NO		
	analysis status correct? (✓ YES	□ NO		
	prep bench sheet added				✓ YES	□ NO		
100	sheet prep date MUST m			shot vs re-extract)	₹ YES	□ NO		
3. High QA?	WO#(s)/9		nep date (elleck ii le	Shoc to to extraory	YES	✓ NO		
	cific QC? (if Yes, refer to		-/LIMS)		✓ YES	□ NO		
20 00 00 00 00 00 00	he QC requirements bee				✓ YES	□ NO		
- Carlo dallo d	er samples in batch?	in met for an	WO#3:		✓ YES	□ NO		
			/MD per hatch?		✓ YES	□ NO		
	1 LCS/LCSD (or BS/BSD and 1 CCB every 10 ana		FID per batters		✓ YES	□ NO		
		nytical rulis!						
QA/QC Data	а спескео ation curve included a m	inimum of E	Standards		✓ PASS	FAIL	□ N/A	
		minimum or 3	Standards					
Comment		orioc (65 135	06)		✓ PASS	FAIL	□ N/A	
	ation Standard % Recove	ELIE2 (03-133	74)					
	S:				✓ PASS	FAIL		
8. RSD CF (5	× 10%)							

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2013 Rev 4 (08/22/2013) Sequence #: 6H12010, 6H12011 Analyst: Ryan Nelson MHg27001-160815-1 Dataset ID #: Reviewer: Jegnre WO #: Various Date: 8/15/2016 Client(s): NA F608273, F608155 Batch #(s): **Analyst Initials: Reviewer Initials:** PASS FAIL 9. ICV % Recoveries 67-133% Comments: PASS FAIL 10. CCV % Recoveries 67-133% Comments: CCV4 failed. Investigated and both passed. PASS FAIL 11. Are the absolute value of the ICB and CCBs < PQL? Comments: ✓ PASS FAIL 12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%) Comments: PASS ✓ FAIL 13. LCS/LCSD or BS/BSD RPD (< 25%) Comments: QR-07 N/A ✓ PASS FAIL 14. Water: Average of Preparation Blanks < 0.045 ng/L and standard devaition of 0.015 ng/L? N/A J PASS FAIL 15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix? FAIL PASS ☐ NO V YES ☐ N/A 16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done) □ NO ✓ YES 17. Is the correct 'Source' designated for MD/MS/MSD? ON O N/A 18. For digested preps: was there a spike witness signature & date on the prep bench sheet? ✓ YES ✓ PASS ✓ FAIL 19. MD RPD/MT RSD(< 35%) Comments: FAIL ✓ PASS 20. Is there one set of MS/MSD per every 10 samples? Comments: FAIL V PASS 21. MS/MSD RPD(< 35%) Comments: ✓ FAIL 4 PASS 22. MS (AS) % Recoveries (65-130%) Comments: PASS FAIL 23. MSD (ASD) % Recoveries (65-130%) Comments: YES V NO 24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630) □ NO ✓ YES 25. Are all samples within instrument calibration range (or at maximum aliquot size)? Comments: NO ✓ N/A PASS 26. For instrumental dilutions, is the dilution factor in excel correct? ✓ N/A □ NO PASS Is the sample volume, diluents, and final volume of the dilution noted on benchsheet? PASS ✓ N/A □ NO 27. Dissolved < Total metals (if applicable) Comments: PASS ✓ N/A NO 28. Effluent < Influent metals (visually confirm if needed) Comments:

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2013 Rev 4 (08/22/2013) Analyst: Sequence #: 6H12010, 6H12011 Ryan Nelson Reviewer: Dataset ID #: MHg27001-160815-1 0 realie 11C 8/9/1 Date: 8/15/2016 WO #: Various Batch #(s): F608273, F608155 Client(s): NA **Analyst Initials: Reviewer Initials:** YES ☐ NO ✓ N/A 29. Are re-runs noted with reason? Comments: ✓ YES ☐ NO ☐ N/A 30. For failing QC (CCV, CCB, PB, BS/BSD, CAL): Was a bubbler and trap test run before the analytical run continued? Comments: ccv4 ☐ NO YES V N/A 31. Do re-run results compare to initial analysis (< 35% RPD)? Comments: YES NO NO ✓ N/A 32. Are qualifiers consistent with the data review flowcharts? Comments: YES ☐ NO ✓ N/A 33. Have non-reportable samples been imported into LIMS and clicked to non-reportable? YES ☐ NO ✓ N/A 34. Have re-extracts been created for non-reportable samples? 35. Narrations in MMO box in LIMS? Comments: YES ✓ NO 36. Are there any HIGH QA projects within the data? If so, place dataset to the QA office. V YES □ N/A 37. Does the data set need scanning? Files located at: \Cuprum\gen admin\Quality Assurance\Training Master\DOCs \\ \lambda \frac{1}{2.1/16} \frac{3\text{1}}{3\text{1}} \frac{8721/16}{3\text{1}} \frac{1}{3\text{1}} \frac{1}{ ✓ YES ☐ NO 38. Date of analyst IDOC/CDOC: 6/8/2016 Current SOP revision? ✓ YES NO NO 39. Date of analyst's SOP reading: 4/21 -6/16 LOD within last 3 months (within 12 months for MDN)? ✓ YES ON [1 ☐ N/A 40. Date of LOD: 4/21 - 6/40 LOQ within last 3 months (within 12 months for MDN)? ✓ YES □ NO N/A 41. Date of LOQ: 42. If MDN samples, date of last MDL study; YES NO NO V N/A 43. MDL study within last 12 months? Data can not be reported without a current IDOC/CDOC, LOD or LOQ. Additional Comments: YES NO.





23 August 2016

Rod Pendleton AMEC Foster Wheeler 511 Congress Street Portland, ME 04101

RE: Penobscot Seawater Total And Diss Hg and MMHg

Enclosed are the analytical results for samples received by Eurofins Frontier Global Sciences. All quality control measurements are within established control limits and there were no analytical difficulties encountered with the exception of those listed in the case narrative section of this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amy Goodall

Project Manager



AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton23-Aug-16 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADD-02_072216_SW_10	1607805-01	Water	22-Jul-16 16:38	27-Jul-16 09:40
ADD-02_072216_SW_10 Dissolved	1607805-02	Water	22-Jul-16 16:38	27-Jul-16 09:40

Eurofins Frontier Global Sciences, Inc.

Amy Sodall.

The results in this report only apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 23-Aug-16 16:30

SAMPLE RECEIPT

Samples were received at Eurofins Frontier Global Sciences (EFGS) on 7/27/2016 9:40:00 AM . The samples were received intact, on-ice within a sealed cooler at 1.0 degrees Celsius.

SAMPLE PREPARATION AND ANALYSIS

Samples were prepared and analyzed for total mercury by flow injection atomic fluorescence spectrometry (FI-AFS) in accordance with EPA 1631E.

Samples were prepared and analyzed for methyl mercury by cold vapor gas chromatography atomic fluorescence spectrometry (CV-GC-AFS) in accordance with EPA 1630 (EFGS-070).

ANALYTICAL AND QUALITY CONTROL ISSUES

Sample 1607805-02 was used as the QC source for the Mercury batch; F608263-MS2/MSD. Neither sample from this work order was used as the source QC for the Methyl Mercury batch. There were no QC issues, and all the data from the original analytical run was reported.

Method blanks were prepared for every preparation to assess possible blank contribution from the sample preparation procedure. The method blanks were carried through the entire analytical procedure. All blanks fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

Liquid spikes, certified reference material (CRM) or a quality control samples (QCS) were prepared for every preparation as a measure of accuracy. All liquid spikes, CRMs and/or QCS samples fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

As an additional measure of the accuracy of the methods used and to check for matrix interference, matrix spikes (MS) and matrix spike duplicates (MSD) were digested and analyzed. All of the matrix spike recoveries fell within the established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

A reasonable measure of the precision of the analytical methods is the relative percent difference (RPD) between a matrix spike recovery and a matrix spike duplicate recovery and between laboratory control sample recovery and laboratory control sample duplicate recoveries. All of the relative percent differences established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

Eurofins Frontier Global Sciences, Inc.

Amy Sodall.

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Amy Goodall, Project Manager



AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton23-Aug-16 16:30

Eurofins Frontier Global Sciences, Inc.

Amy Sodall.

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Sample Receipt Checklist

EFGS Work Order: 1607805

	Date & Tim	e Received: 7/27/16 9°	10 Dat	e Labeled: 7	27/16 Labeled B	y: M
	Received By	1: C5Q				
9						
				0		
Y/N/NA	Comments	TID:5225 CF: TO.	°C Da	te/time: 7/2	7/16 470 BV	: (30
with: V				Cooler 4:	°C w/ CF:	de
/w				Cooler 5:	°C w/ CF:	°C
141		Cooler 3: °C w/ C	F: °C	Cooler 6:	°C w/ CF:	°C
Comments	Sample Cond	ition/Integrity:	Y/N/NA	1	Comments	
	Sample conta	iners intact/present:	Y			
	Sample labels	are present and legible:	1			
	Sample ID on	container/bag matches COC:	4			
	Correct samp	le containers used:	4			
	Samples recei	ved within holding times:	4			
	Sample volum	ne sufficient for requested analyses:	Y			
	Correct prese	rvative used for requested analyses:	Y			
h additional pages if neede	ed):					
	Loose Ice Gel Ices/coolers are received by Alwith: V Comments	Samples Arrived By: Shipping Service Samples Arrived By: Shipping Service Shipping Service Dry Ice Coolant or with that Sample Conductive Sample ID on Correct sample Sample volum	Samples Arrived By: Shipping Service Courier Hand Shipping Service Courier Hand Ses/coolers are received without coolant or with thawed coolant and at a temperal twith: Y/N/NA	Received By: Shipping Service Courier Hand Other Cooler Co	Received By: Shipping Service Courier Hand Other (Specify: Coose Co	Samples Arrived By: Shipping Service Courier Hand Other (Specify: Description Specify: Samples Arrived By: Shipping Service Courier Hand Other (Specify: Specify: S

1607805

Chain Of Custody/Analysis Request Form

USDC - Penobscot River

Lab: Eurofins

AMEC, Suite 200, 511 Congress Street, Portland, ME Tech Lead - Louise Venne Work# 770-421-3461 Proj Chemist - Denise King 508-789-1738

AMEC Job Number = 3616166052

Samp #	Sample Date	Sample Time	Field Sample ID	QC Code	Qty Total	Qty Each		Bottle Size and Material	Preservative	Media	Method	Fraction
1601	7/22/2016	6 16:38	ADD-02_072216_SW_10		4				*			
				FS		1 250	mL	PETG	4 deg C	sw	Total Hg (1631e)	T
				FS		1 250	mL	PETG	4 deg C	sw	Dissolved Hg (1631e)	D
				FS		1 250	mL	BS Glass I	H2SO4/4 deg C	SW	Total MeHg (1630)	T
				FS		1 250	mL	BS Glass	H2SO4/4 deg C	sw	Dissolved MeHg (1630)	D

QC Codes: FS = Field Sample, EB = Equipment Rinsate Blank, MS - Matrix Spike, MSD = Matrix Spike Duplicate

Relinquished:	Julia Pallozzo	Date:	٦	126	12016	Time: 1633
Received:	Costin Powell	EF6 Bate:	7	127	16	Time: 940

· AIRBILL: 8045 4405 6951

· ONE COOLER

1.0°C Feder



AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton23-Aug-16 16:30

ADD-02_072216_SW_10 1607805-01

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-013 Methy	l Hg Disti	llation for	Water								
Methyl Mercury (as Mercury)	0.779	0.026	0.050	ng/L	1.25	F608273	11-Aug-16	6Н12011	12-Aug-16	EPA 1630/FGS-070	
Sample Preparation: EPA 1631E BrCl	Oxidation	1									
Mercury	20.7	0.84	5.05	ng/L	10	F608263	27-Jul-16	6H11005	11-Aug-16	EPA 1631E	

Eurofins Frontier Global Sciences, Inc.

Amy Sodall.

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton23-Aug-16 16:30

ADD-02_072216_SW_10 Dissolved 1607805-02

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes	
Sample Preparation: EFGS-013 Methyl Hg Distillation for Water												
Methyl Mercury (as Mercury)	0.154	0.026	0.050	ng/L	1.25	F608273	11-Aug-16	6Н12011	12-Aug-16	EPA 1630/FGS-070		
Sample Preparation: EPA 1631E B	rCl Oxidation	l										
Mercury	1.81	0.08	0.50	ng/L	1	F608263	27-Jul-16	6Н11005	11-Aug-16	EPA 1631E		

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Amy Sodall.

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton23-Aug-16 16:30

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H11005 - F608263											
Cal Standard (6H11005-CAL1)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	0.50	-		ng/L	0.50100		99.6				
Cal Standard (6H11005-CAL2)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	1.02	-		ng/L	1.0020		102				
Cal Standard (6H11005-CAL3)					Prepared: 1	10-Aug-16					
Mercury	4.95	-		ng/L	5.0100		98.9				
Cal Standard (6H11005-CAL4)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	19.82	-		ng/L	20.040		98.9				
Cal Standard (6H11005-CAL5)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	39.82	-		ng/L	40.080		99.3				
Calibration Blank (6H11005-CCB1)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	-0.01	-		ng/L	•						
Calibration Blank (6H11005-CCB2)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	-0.006	-		ng/L	•						
Calibration Blank (6H11005-CCB3)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	0.12	-		ng/L	1		<u> </u>				
Calibration Blank (6H11005-CCB5)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	0.53	-		ng/L	1						
Calibration Check (6H11005-CCV1)					Prepared: 1	10-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	5.24	-		ng/L	5.0000		105	77-123			

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton23-Aug-16 16:30

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H11005 - F608263											
Calibration Check (6H11005-CCV2)					Prepared: 1	0-Aug-16	Analyzed: 1	11-Aug-16			
Mercury	5.43	-		ng/L	5.0000		109	77-123			
Calibration Check (6H11005-CCV3)					Prepared: 1	0-Aug-16	Analyzed: 1	11-Aug-16			
Mercury	5.64	-		ng/L	5.0000		113	77-123			
Instrument Blank (6H11005-IBL1)					Prepared: 1	0-Aug-16	Analyzed: 1	11-Aug-16			
Mercury	ND	0.08	0.50	ng/L	•						J
Instrument Blank (6H11005-IBL2)					Prepared: 1	0-Aug-16	Analyzed: 1	11-Aug-16			
Mercury	ND	0.08	0.50	ng/L							Ţ
Instrument Blank (6H11005-IBL3)					Prepared: 1	0-Aug-16	Analyzed: 1	11-Aug-16			
Mercury	ND	0.08	0.50	ng/L							Ţ
Initial Cal Check (6H11005-ICV1)					Prepared: 1	0-Aug-16	Analyzed: 1	11-Aug-16			
Mercury	5.42	-		ng/L	5.0000		108	77-123			
Batch 6H12011 - F608273											
Cal Standard (6H12011-CAL1)					Prepared &	: Analyzed:	12-Aug-16	6			
Methyl Mercury (as Mercury)	0.049	-		ng/L	0.050050	•	97.4				
Cal Standard (6H12011-CAL2)					Prepared &	: Analyzed:	12-Aug-16	5			
Methyl Mercury (as Mercury)	0.211	-		ng/L	0.20020		105				
Cal Standard (6H12011-CAL3)					Prepared &	: Analyzed:	12-Aug-16	5			
Methyl Mercury (as Mercury)	0.829	-		ng/L	1.0010		82.8				

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton23-Aug-16 16:30

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H12011 - F608273											
Cal Standard (6H12011-CAL4)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	1.982	-		ng/L	2.0020		99.0				
Cal Standard (6H12011-CAL5)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	4.602	-		ng/L	4.0040		115				
Calibration Blank (6H12011-CCB1)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.005	-		ng/L							
Calibration Blank (6H12011-CCB2)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.001	-		ng/L							
Calibration Blank (6H12011-CCB3)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.002	-		ng/L							
Calibration Blank (6H12011-CCB4)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.005	=		ng/L							
Calibration Blank (6H12011-CCB5)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.001	-		ng/L							
Calibration Blank (6H12011-CCB6)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.001	-		ng/L	-	-					
Calibration Check (6H12011-CCV1)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.449	-		ng/L	0.50049		89.8	67-133			
Calibration Check (6H12011-CCV2)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.599	-		ng/L	0.50049		120	67-133			

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton23-Aug-16 16:30

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H12011 - F608273											
Calibration Check (6H12011-CCV3)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.515	-		ng/L	0.50049		103	67-133			
Calibration Check (6H12011-CCV5)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.621	-		ng/L	0.50049		124	67-133			
Calibration Check (6H12011-CCV6)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.619	-		ng/L	0.50049		124	67-133			
Calibration Check (6H12011-CCV7)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.440	-		ng/L	0.50049		87.9	67-133			
Calibration Check (6H12011-CCV8)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.479	-		ng/L	0.50049		95.7	67-133			
Instrument Blank (6H12011-IBL1)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	ND	0.021	0.040	ng/L	1						Ţ
Initial Cal Blank (6H12011-ICB1)					Prepared &	Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.008	-		ng/L	· F · · · · · ·						
Initial Cal Check (6H12011-ICV1)					Prepared &	: Analyzed:	12-Aug-16				
Methyl Mercury (as Mercury)	0.500	-		ng/L	0.50049		99.9	67-133			
P-4-1-E(092/2 EDA 1/21E P-/CLO-											
Batch F608263 - EPA 1631E BrCl Ox	idation										
Blank (F608263-BLK1)					Prepared: 1	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	ND	0.08	0.50	ng/L							Ţ

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress StreetProject Number: 3616166052Reported:Portland ME, 04101Project Manager: Rod Pendleton23-Aug-16 16:30

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F608263 - EPA 1631E BrCl Ox	xidation_										
Blank (F608263-BLK2)					Prepared:	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	ND	0.08	0.50	ng/L							Ţ
Blank (F608263-BLK3)					Prepared:	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	ND	0.08	0.50	ng/L							τ
Blank (F608263-BLK4)					Prepared:	0-Aug-16	Analyzed: 1	1-Aug-16			
Mercury	ND	0.08	0.50	ng/L							Ţ
LCS (F608263-BS1)					Prepared:	10-Aug-16 A	Analyzed: 1	1-Aug-16			
Mercury	15.32	0.08	0.50	ng/L	15.679		97.7	80-120			
LCS Dup (F608263-BSD1)					Prepared:	10-Aug-16 A	Analyzed: 1	1-Aug-16			
Mercury	15.53	0.08	0.50	ng/L	15.679		99.1	80-120	1.42	24	
Matrix Spike (F608263-MS1)		Source:	1607542-06	5	Prepared:	10-Aug-16 A	Analyzed: 1	1-Aug-16			
Mercury	6.52	0.08	0.50	ng/L	5.0601	1.17	106	71-125			
Matrix Spike (F608263-MS2)		Source:	1607805-02	2	Prepared:	10-Aug-16 A	Analyzed: 1	1-Aug-16			
Mercury	7.16	0.08	0.50	ng/L	5.0601	1.81	106	71-125			
Matrix Spike Dup (F608263-MSD1)		Source:	1607542-06	5	Prepared:	10-Aug-16 A	Analyzed: 1	1-Aug-16			
Mercury	6.47	0.08	0.50	ng/L	5.0601	1.17	105	71-125	0.744	24	
Matrix Spike Dup (F608263-MSD2)		Source:	1607805-02	2	Prepared:	10-Aug-16 A	Analyzed: 1	1-Aug-16			
Mercury	7.29	0.08	0.50	ng/L	5.0601	1.81	108	71-125	1.77	24	
Batch F608273 - EFGS-013 Methyl F	Ig Distillatio	on for Wate	<u>r</u>								
Blank (F608273-BLK1)					Prepared:	11-Aug-16 A	Analyzed: 1	2-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							Ţ

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AMEC Foster Wheeler

Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Portland ME, 04101

Project Number: 3616166052 Reported:
Project Manager: Rod Pendleton 23-Aug-16 16:30

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F608273 - EFGS-013 Methyl F		·		- ~						•	
Blank (F608273-BLK2)					Prepared: 1	11-Aug-16	Analyzed: 1	12-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U
Blank (F608273-BLK3)					Prepared: 1	11-Aug-16	Analyzed: 1	12-Aug-16			
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U
LCS (F608273-BS1)					Prepared: 1	11-Aug-16	Analyzed: 1	12-Aug-16			
Methyl Mercury (as Mercury)	0.704	0.026	0.050	ng/L	1.0010		70.3	70-130			
LCS Dup (F608273-BSD1)					Prepared: 1	11-Aug-16	Analyzed: 1	12-Aug-16			
Methyl Mercury (as Mercury)	0.968	0.026	0.050	ng/L	1.0010		96.7	70-130	31.6	25	QR-06
Duplicate (F608273-DUP1)		Source	: 1607542-01		Prepared: 1	11-Aug-16	Analyzed: 1	12-Aug-16			
Methyl Mercury (as Mercury)	0.151	0.026	0.050	ng/L		0.051			98.7	35	QR-07
Matrix Spike (F608273-MS1)		Source	: 1607586-12	2	Prepared: 1	11-Aug-16	Analyzed: 1	12-Aug-16			
Methyl Mercury (as Mercury)	1.006	0.026	0.050	ng/L	1.0010	ND	101	65-130			
Matrix Spike (F608273-MS2)		Source	: 1607772-01		Prepared: 1	11-Aug-16	Analyzed: 1	12-Aug-16			
Methyl Mercury (as Mercury)	0.347	0.026	0.050	ng/L	1.0010	0.029	31.7	65-130			QM-07
Matrix Spike Dup (F608273-MSD1)		Source	: 1607586-12	!	Prepared: 1	11-Aug-16 <i>I</i>	Analyzed: 1	12-Aug-16			
Methyl Mercury (as Mercury)	0.713	0.026	0.050	ng/L	1.0010	ND	71.2	65-130	34.1	35	
Matrix Spike Dup (F608273-MSD2)		Source	: 1607772-01		Prepared: 1	11-Aug-16 <i>I</i>	Analyzed: 1	12-Aug-16			
Methyl Mercury (as Mercury)	0.277	0.026	0.050	ng/L	1.0010	0.029	24.8	65-130	22.3	35	QM-07

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AMEC Foster Wheeler Project: Penobscot Seawater Total And Diss Hg and MMHg

511 Congress Street Project Number: 3616166052 Reported:
Portland ME, 04101 Project Manager: Rod Pendleton 23-Aug-16 16:30

Notes and Definitions

U Analyte was not detected and is reported as less than the LOD or as defined by the client. The LOD has been adjusted for any dilution or concentration of the sample. QR-07 The RPD/RSD value for the matrix duplicate/triplicate was outside of acceptance limits. Batch QC acceptable based on MS/MSD and/or LCS/LCSD RPD values within control limits. The RPD value for the LCS/LCSD was outside of acceptance limits. Batch QC acceptable based on MS/MSD, and where applicable, QR-06 matrix duplicate RPD value(s) within control limits. QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on LCS and LCSD recoveries within control limits and, when analysis permits, acceptable AS/ASD. The result is an estimated concentration. FB This blank is a filtration blank. Data is reported for informational purposes only. DET Analyte DETECTED Analyte NOT DETECTED at or above the reporting limit ND NR Not Reported Sample results reported on a dry weight basis dry

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Relative Percent Difference

RPD

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Frontier Global Sciences

Analysis Datasheet for Total Mercury

Date of Analysis: August 11, 2016

Instrument #: Hg2600-3 LIMS Sequence #: 6H11005 Analyst: BC Units ng/L

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.50 ng/L	57.20 units	114.39	45.28 units	90.56	99.8 %Rec
SEQ-CAL2	1	1.00 ng/L	104.81 units	104.81	92.89 units	92.89	102.4 %Rec
SEQ-CAL3	1	5.00 ng/L	461.27 units	92.25	449.36 units	89.87	99.1 %Rec
SEQ-CAL4	1	20.00 ng/L	1809.88 units	90.49	1797.96 units	89.90	99.1 %Rec
SEQ-CAL5	1	40.00 ng/L	3623.13 units	90.58	3611.21 units	90.28	99.5 %Rec
SEQ-CAL6	0	TO TOTAL PARTY		1,000,000	200000000000000000000000000000000000000		2210 101100
SEQ-CAL7	0						
SEQ-CAL8	0						
SEO-CAL9	0						

Corr. Mean RF 90.70

Corr. St Dev RF +/- 1.26 Corr. RSD CF 1.4% RSD Uncorr. Mean RF

98.51

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	3	11.92 units	±4.86	0.12 ng/L	±0.05

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.014 ng/L	±0.040
BLK	2	1	-0.013 ng/L	
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	
BLK	6	0	0.000 ng/L	

QUALITY ASSURANCE
PEER - REVIEWED
INITIALS: DAW 8-11-16

		Sample	1		AND DESCRIPTION OF THE PERSON NAMED IN	76.71		Uncorrected	Batch	No PB					
nstrument	Analyst	Type	LabNumber	Dilution	Analyzed	FileID	RunEnd	Response	ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2600-3	BC	CAL	SEQ-IBL1 -	1	8/11/2016 8:06:3	6 47401-1.RAW *	8:06:36 AM	16.87-			5.0	0.055	0.055	ng/L	
Hg2600-3	BC	CAL	SEQ-IBL2	1	8/11/2016 8:10:4	5 47402-1.RAW	8:10:45 AM	11.72			-0.2	-0.002	-0.002	ng/L	
dg2600-3	BC	CAL	SEQ-IBL3	1	8/11/2016 8:14:5	3 47403-1.RAW	8:14:53 AM	7.16		-	-4.8	-0.052	-0.052	ng/L	
dg2600-3	BC	CAL	SEQ-CAL1-	1	8/11/2016 8:19:0	1 47404-1.RAW -	8:19:01 AM	57.20-			45.3	0.499	0.499	ng/L	
1g2600-3	BC	CAL	SEQ-CAL2 =	1	8/11/2016 8:23:1	0 47405-1.RAW+	8:23:10 AM	104.81-			92.9	1.024	1.024	ng/L	
tg2600-3	BC	CAL	SEQ-CAL3 -	1	8/11/2016 8:27:1	8 47406-1.RAW -	8:27:18 AM	461.27			449.4	4.954	4,954	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL4 =	1	8/11/2016 8:31:2	7 47407-1.RAW -	8:31:27 AM-	1809.88			1798.0	19.823	19.823	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL5	1	8/11/2016 8:35:3	5 47408-1.RAW -	8:35:35 AM	3623.13			3611.2	39.815	39.815	ng/L	
1g2600-3	BC	CAL	SEQ-ICV1 -	1	8/11/2016 8:39:4	4 47409-1.RAW	8:39:44 AM-	503.23			491.3	5.417	5.417	ng/L	
Hg2600-3	BC	BLK	_F608263-BLK1	1	8/11/2016 8:48:4	2 47410-1.RAW	8:48:42 AM	16.96	1		5.0	0.056	0.056	ng/L	
Hg2600-3	BC	BLK	F608263-BLK2	1	8/11/2016 8:52:5	0 47411-1.RAW	8:52:50 AM	9.75	1		-2.2	-0.024	-0.024	ng/L	
Hg2600-3	BC	BLK	F608263-BLK3	1	8/11/2016 8:56:5	9 47412-1.RAW	8:56:59 AM	12.80	1		0.9	0.010	0.010	ng/L	
1g2600-3	BC	BLK	F608263-BLK4	1	8/11/2016 9:01:0	7 47413-1.RAW	9:01:07 AM	10.75	2		-1.2	-0.013	-0.013	ng/L	
1g2600-3	BC	SAM	_F608263-BS1_	1	8/11/2016 9:05:1:	5 47414-1.RAW _	9:05:15 AM-	1388.49	1		1376.6	15.163	15.163	ng/L	
+g2600-3	BC	SAM	TF608263-BSD1	1	8/11/2016 9:09:2	4 47415-1.RAW	9:09:24 AM	1408.12	1		1396.2	15.380	15.380	ng/L	
tg2600-3	BC	SAM	-1607542-01 -	1	8/11/2016 9:13:3:	2 47416-1.RAW-	9:13:32 AM-	80.27	1		68.4	0.740	0.740	ng/L	
tg2600-3	BC	SAM	-1607542-02	1	8/11/2016 9:17:4	1 47417-1.RAW	9:17:41 AM	32.16	1		20.2	0.209	0.209	ng/L	
lg2600-3	BC	SAM	1607542-03	1	8/11/2016 9:21:49	47418-1.RAW	9:21:49 AM	70.81	1		58.9	0.636	0.636	ng/L	
Hg2600-3	BC	SAM	1607542-04	1	8/11/2016 9:25:58	47419-1.RAW	9:25:58 AM	68.15	1		56.2	0.606	0.606	ng/L	
1g2600-3	BC	CAL	SEQ-CCV1 -	1	8/11/2016 9:30:06	47420-1.RAW -	9:30:06 AM-	487.07			475.2	5,239	5.239	ng/L	
lg2600-3	BC	CAL	SEQ-CCB1	1	8/11/2016 9:34:14	47421-1.RAW	9:34:14 AM	10.59			-1.3	-0.015	-0.015	ng/L	
lg2600-3	BC	SAM	1607542-05	1	8/11/2016 9:38:23		9:38:23 AM	97.04	1		85.1	0.925	0.925	ng/L	
lg2600-3	BC	SAM	1607542-06	1	8/11/2016 9:42:3	the state of the s	9:42:31 AM	117.97	1		106.1	1.156	1.156	ng/L	
lg2600-3	BC	SAM	1607542-07	1	8/11/2016 9:46:40	47424-1.RAW	9:46:40 AM	15.99	1		4.1	0.031	0.031	ng/L	
lg2600-3	BC	SAM	- 1607542-09	1	8/11/2016 9:50:48		9:50:48 AM	7.42	1		-4.5	-0.063	-0.063	ng/L	
lg2600-3	BC	SAM	1607586-19	1	8/11/2016 9:54:56		9:54:56 AM	142.24	1		130.3	1.423	1.423	ng/L	
lg2600-3	BC	SAM	-1607586-20	1	8/11/2016 9:59:05		9:59:05 AM	58.46	1		46.5	0.499	0.499	ng/L	
lg2600-3	BC	SAM	- 1607586-21	1	8/11/2016 10:03:13		10:03:13 AM	14.74	1		2.8	0.017	0.017	ng/L	
lg2600-3	BC	SAM	1607805-01	10	8/11/2016 10:07:22	A STATE OF THE PARTY OF THE PAR	10:07:22 AM	195.88	2		184.0	2,030	20.295	ng/L	
lg2600-3	BC	SAM	1607805-02	1	8/11/2016 10:11:30		10:11:30 AM	176.11	1		164.2	1.797	1.797	ng/L	
lg2600-3	BC	SAM	1608038-01	1	8/11/2016 10:15:38	the second secon	10:15:38 AM	24.97	1		13.1	0.130	0.130	ng/L	
lg2600-3	BC	CAL	SEQ-CCV2 ~	1	8/11/2016 10:19:47		10:19:47 AM_	504.12			492.2	5.427	5.427	ng/L	
lg2600-3	BC	CAL	SEQ-CCB2	1	8/11/2016 10:23:55	The state of the s	10:23:55 AM	11,34			-0.6	-0.006	-0.006	ng/L	
lg2600-3	BC	SAM	1608109-01	1	8/11/2016 10:28:04		10:28:04 AM	23.42	1		11.5	0.113	0.113	ng/L	
lg2600-3	BC	SAM	1608109-03	1	8/11/2016 10:32:12		10:32:12 AM	646.58	1		634.7	6.984	6.984	ng/L	
lg2600-3	BC	SAM .	1608109-05	1	8/11/2016 10:36:21		10:36:21 AM	357.89	1		346.0	3.801	3.801	ng/L	
lg2600-3	BC	SAM	- 1608109-07	1	8/11/2016 10:40:29	THE RESERVE OF STREET	10:40:29 AM	21.87	i		10.0	0.096	0.096	ng/L	
g2600-3	BC	SAM	1608109-09	1	8/11/2016 10:44:37		10:44:37 AM	276.68	1		264.8	2,905	2.905	ng/L	
g2600-3	BC	SAM	1608109-11	1	8/11/2016 10:48:46		10:48:46 AM	258.35	1		246.4	2.703	2.703	ng/L	
lg2600-3	BC	SAM -	F608263-MS1-	1	8/11/2016 10:52:54	the state of the s	10:52:54 AM-	598.26	1		586.3	6.451	6.451	ng/L	
g2600-3	BC	SAM	F608263-MSD1	1	8/11/2016 10:57:03		10:57:03 AM	593.92	1		582.0	6.403	6.403	ng/L	
g2600-3	BC	SAM -	F608263-MS2	1	8/11/2016 11:01:11		11:01:11 AM	656.47	1		644.6	7.093	7.093	ng/L	
lg2600-3	BC		F608263-MSD2	1	8/11/2016 11:05:19		11:05:19 AM	667.95	1		656.0	7.219	7.219	ng/L	
g2600-3	BC	CAL	SEQ-CCV3	1	8/11/2016 11:09:28		11:09:28 AM	523.03	-		511.1	5.635	5.635	ng/L	
lg2600-3	BC	CAL	SEQ-CCB3	1	8/11/2016 11:13:36		11:13:36 AM	22.54			10.6	0.117	0.117	ng/L	
g2600-3	BC	SAM .	F608263-DUP1-	1	8/11/2016 11:17:45		11:17:45 AM	80.30	1		68.4	0.740	0.740	ng/L	
g2600-3	BC	BLK	F608233-BLK1	100	8/11/2016 11:21:53		11:21:53 AM	19.11	•	x	7.2	0.079	7.933	ng/L	
g2600-3	BC	BLK	F608233-BLK2	100	8/11/2016 11:26:01		11:26:01 AM	20.22			8.3	0.092	9.158	ng/L	
g2600-3	BC	BLK	F608233-BLK3	100	8/11/2016 11:30:10	the second secon	11:30:10 AM	15.99			4.1	0.045	4.491	ng/L	
g2600-3	BC	SAM	F608233-BS1	500	8/11/2016 11:34:18		11:34:18 AM	383.99			372.1	4.102	2051.143	ng/L	
g2600-3	BC	SAM	F608233-BSD1	500	8/11/2016 11:38:27		11:38:27 AM	382.54			370.6	4.086	2043.148	ng/L	
g2600-3	BC	SAM	1608154-14	100	8/11/2016 11:42:35		11:42:35 AM	54.28			42.4	0.467	46.707	ng/L	
g2600-3 g2600-3	BC	SAM	1608154-15	2500	8/11/2016 11:46:44	The state of the s	11:42:35 AM	129030.53			129018.6	1422.482	3556205.197	77.	
	BC	SAM	WS	2500	8/11/2016 11:46:44	AND DESCRIPTION OF THE PARTY OF	11:56:28 AM	198.79			186.9	2,060		ng/L	
g2600-3	BC	SAM	CLEAN	1		The state of the s						2010/2011	2.060	ng/L	
g2600-3	BC	SAM	WS	1	8/11/2016 12:00:49		12:00:49 PM	26.87			15.0	0.165	0.165	ng/L	
g2600-3 g2600-3	BC	SAM	WS	1	8/11/2016 12:04:58		12:04:58 PM	71.60			59.7	0.658	0.658	ng/L	
y2000-3	DC	PIAC	1113	II.	8/11/2016 12:09:06	4/43/-1.RAW	12:09:06 PM	46.09			34.2	0.377	0.377	ng/L	

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Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2600-3	BC	SAM	WS	3	8/11/2016 12:13:15	47458-1.RAW	12:13:15 PM	38,76		×	26.8	0.296	0.296	ng/L	
Hg2600-3	BC	SAM	ws	1	8/11/2016 12:17:23	47459-1.RAW	12:17:23 PM	40.74		x	28.8	0.318	0.318	ng/L	
Hg2600-3	BC	SAM	ws	1	8/11/2016 12:21:31	47460-1.RAW	12:21:31 PM	39.50		x	27.6	0.304	0.304	ng/L	
Hg2600-3	BC	SAM	WS	1	8/11/2016 12:25:40	47461-1.RAW	12:25:40 PM	32.14		x	20.2	0.223	0.223	ng/L	
Hg2600-3	BC	SAM	1608154-21	2500	8/11/2016 12:29:48	47462-1.RAW	12:29:48 PM	154193.54		x	154181.6	1699.914	4249785.980	ng/L	
Hg2600-3	BC	SAM	1608154-25	2500	8/11/2016 12:39:32	47463-1.RAW	12:39:32 PM	460.10		x	448.2	4.941	12353.617	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV4-	1	8/11/2016 12:43:41	47464-1.RAW -	12:43:41 PM -	633.00			621.1	6.848	6.848	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB4	1	8/11/2016 12:47:49	47465-1.RAW -	12:47:49 PM -	96.17	-		84.3	0.929	0.929	ng/L	
Hg2600-3	BC	SAM	ws	1	8/11/2016 12:56:38	47467-1.RAW	12:56:38 PM	418.23		×	406.3	4.480	4.480	ng/L	
Hg2600-3	BC	SAM	ws	1	8/11/2016 13:00:46	47468-1.RAW	1:00:46 PM	62.89		×	51.0	0.562	0.562	ng/L	
Hg2600-3	BC	SAM	WS	1	8/11/2016 13:04:55	47469-1.RAW	1:04:55 PM	55.64784167		x	43.7	0.482	0.482	ng/L	
Hg2600-3	BC	SAM	WS	1	8/11/2016 13:09:03	47470-1.RAW	1:09:03 PM	54.05		x	42.1	0.465	0.465	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV5 =	1	8/11/2016 13:13:11	47471-1.RAW_	1:13:11 PM-	547.63			535.7	5.906	5.906	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB5 -	1	8/11/2016 13:17:20	47472-1.RAW -	1:17:20 PM=	59.91			48.0	0.529	0.529	ng/L	

TotalMercury EPA1631	Operate BC Worksh THg266 Method #### Descrip THg266	0(CalibFa R:	1 R2:	s: QC Wa	(Area-11.91 Run Date: arnings:5/QC E Run Time: 1		Blank SD: Blank RSD%: CF SD: CF RSD%:	4.859873844 40.78232244 1.257107378 1.386011407			
Sample/ID	Location Rinse	Dilute	Blank Conc (ppt) MB%	FinalConc Rec%	QA	RawData	RunEnd	Peak (Raw) Control (etf)	Flags	RunCount
Clean			0.00	1.23			47396-1.RAW	7:47:11	111.21 Clean	OK	1
clean							47397-1.RAW	7:50:03	0.00 Clean	NP	4
ws			11.92	0.00			47398-1.RAW	7:54:11	10.02 Sample	OK	1
ws			11.92	0.00			47399-1.RAW	7:58:19	6.26 Sample	OK	1
ws			11.92	0.00			47400-1.RAW	8:02:28	7.48 Sample	OK	1
SEQ-IBL1	A1	1	0.00	0.19			47401-1.RAW	8:06:36	16.87 Sample	OK	1
SEQ-IBL2	A2	1	0.00	0.13			47402-1.RAW	8:10:45	11.72 Sample	OK	1
SEQ-IBL3	A3	1	0.00	0.08			47403-1.RAW	8:14:53	7.16 Sample	OK	1
SEQ-CAL1	A4	1	11.92	0.50	99.84		47404-1.RAW	8:19:01	57.20 Sample	OK	1
SEQ-CAL2	A5	1	11.92	1.02	102.41		47405-1.RAW	8:23:10	104.81 Sample	OK	1
SEQ-CAL3	A6	1	11.92	4.95	99.09		47406-1.RAW	8:27:18	461.27 Sample	OK	1
SEQ-CAL4	A7	1	11.92	19.82	99.12		47407-1.RAW	8:31:27	1809.88 Sample	OK	1
SEQ-CAL5	A8	1	11.92	39.82	99.54		47408-1.RAW	8:35:35	3623.13 Sample	FB	1
SEQ-ICV1	A9	1	11.92	5.42	108.34		47409-1.RAW	8:39:44	503.23 Sample	OK	9
608263-BLK1	A10	1	11.92	0.06	100.01		47410-1.RAW	8:48:42	16.96 Sample	OK	1
608263-BLK2	A11	1	11.92	0.00			47411-1.RAW	8:52:50	9.75 Sample	OK	1
608263-BLK3	A12	1	11.92	0.01			47412-1.RAW	8:56:59	12.80 Sample	OK	1
608263-BLK4	B1	1	11.92	0.00			47413-1.RAW	9:01:07	10.75 Sample	OK	1
608263-BER4	B2	1	11.92	15.18			47414-1.RAW	9:05:15	1388.49 Sample	OK	1
608263-BSD1	B3	4	11.92	15.39			47415-1.RAW	9:09:24	1408.12 Sample	OK	1
1607542-01	B4	4	11.92	0.75			47416-1.RAW	9:13:32	80.27 Sample	OK	1
607542-02	B5	4	11.92	0.22			47417-1.RAW	9:17:41	32.16 Sample	OK	1
607542-02	B6	3	11.92	0.65			47418-1.RAW	9:21:49	70.81 Sample	OK	1
	B7			0.62			47419-1.RAW	9:25:58	68.15 Sample	OK	1
1607542-04		1	11.92	5.24	104.77			9:30:06	487.07 Sample	OK	1
SEQ-CCV1	B8	1	11.92				47420-1.RAW	9:34:14			1
SEQ-CCB1	B9	1	11.92	0.00	0.00		47421-1,RAW		10.59 Sample	OK	1
607542-05	B10	1	11.92	0.94			47422-1.RAW	9:38:23	97.04 Sample	OK	
607542-06	B11	1	11.92	1.17			47423-1.RAW	9:42:31	117.97 Sample	OK	1
607542-07	B12	1	11.92	0.04			47424-1.RAW	9:46:40	15.99 Sample	OK	1
607542-09	C1	1	11.92	0.00			47425-1.RAW	9:50:48	7.42 Sample	OK	1
607586-19	C2	1	11.92	1,44			47426-1.RAW	9:54:56	142.24 Sample	OK	1
607586-20	C3	1	11.92	0.51			47427-1.RAW	9:59:05	58.46 Sample	OK	1
607586-21	C4	1	11.92	0.03			47428-1.RAW	10:03:13	14.74 Sample	OK	1
607805-01	C5	10	11.92	20.28			47429-1.RAW	10:07:22	195.88 Sample	OK	1
607805-02	C6	1	11.92	1.81			47430-1.RAW	10:11:30	176.11 Sample	OK.	1
608038-01	C7	1	11.92	0.14			47431-1.RAW	10:15:38	24.97 Sample	OK	1
SEQ-CCV2	C8	1	11.92	5.43	108.54		47432-1.RAW	10:19:47	504.12 Sample	OK	1
EQ-CCB2	C9	1	11.92	0.00	0.00		47433-1.RAW	10:23:55	11.34 Sample	OK	1
608109-01	C10	1	11.92	0.13			47434-1.RAW	10:28:04	23.42 Sample	OK	1
608109-03	C11	1	11.92	7.00			47435-1.RAW	10:32:12	646.58 Sample	OK	1
608109-05	C12	1	11.92	3.81			47436-1.RAW	10:36:21	357.89 Sample	OK	1
608109-07	D1	1	11.92	0.11			47437-1.RAW	10:40:29	21.87 Sample	OK	1
608109-09	D2	1	11.92	2.92			47438-1.RAW	10:44:37	276.68 Sample	OK	1
608109-11	D3	1	11.92	2.72			47439-1.RAW	10:48:46	258.35 Sample	OK	1
608263-MS1	D4	1	11.92	6.46	173.92		47440-1.RAW	10:52:54	598.26 Sample	OK	1

	F608263-MSD1	D5	1	11.92	6.42		47441-1.RAW	10:57:03	593.92 Sample	OK	1
	F608263-MS2	D6	1	11.92	7.11	84.43	47442-1.RAW	11:01:11	656.47 Sample	OK	1
	F608263-MSD2	D7	1	11.92	7.23		47443-1.RAW	11:05:19	667.95 Sample	OK	1
	SEQ-CCV3	D8	1	11.92	5.64	112.70	47444-1.RAW	11:09:28	523.03 Sample	OK	1
	SEQ-CCB3	D9	1	11.92	0.12	0.00	47445-1.RAW	11:13:36	22.54 Sample	OK	1
	F608263-DUP1	D10	1	11.92	0.75		47446-1.RAW	11:17:45	80.30 Sample	OK	1
	F608233-BLK1	D11	100	11.92	7.93		47447-1.RAW	11:21:53	19.11 Sample	OK	1
	F608233-BLK2	D12	100	11.92	9.16		47448-1.RAW	11:26:01	20.22 Sample	OK	1
	F608233-BLK3	A1	100	11.92	4.49		47449-1.RAW	11:30:10	15.99 Sample	OK	1
	F608233-BS1	A2	500	11.92	2051.14		47450-1.RAW	11:34:18	383.99 Sample	OK	1
	F608233-BSD1	A3	500	11.92	2043.15		47451-1.RAW	11:38:27	382.54 Sample	OK	1
	1608154-14	A4	100	11.92	46.71		47452-1.RAW	11:42:35	54.28 Sample	OK	1
	1608154-15	A5	2500	11.92	3556205.20		47453-1.RAW	11:46:44	129030.53 Sample	OLFB	,
	WS	6.10	2,000	11.92	2.06		47454-1.RAW	11:56:28	198.79 Sample	OK	1
	CLEAN			0.00	0.30		47455-1.RAW	12:00:49	26.87 Clean	OK	1
	WS			11.92	0.66		47456-1.RAW	12:04:58	71.60 Sample	OK	1
	WS			11.92	0.38		47457-1.RAW	12:09:06	46.09 Sample	OK	1
	ws			11.92	0.30		47458-1.RAW	12:13:15	38.76 Sample	OK	1
	ws			11.92	0.32		47459-1.RAW	12:17:23	40.74 Sample	OK	1
	ws			11.92	0.30		47460-1.RAW	12:21:31	39.50 Sample	OK	
	ws			11.92	0.22		47461-1.RAW	12:25:40	32.14 Sample		1
	1608154-21	A6	2500	11.92	4249785.98					OK	1
	1608154-25	A7	2500	11.92			47462-1.RAW	12:29:48	154193,54 Sample	OLFB	4
	SEQ-CCV4	A8	2500	11.92	12353.62	120.05	47463-1.RAW	12:39:32	460.10 Sample	OK	1
	SEQ-CCV4 SEQ-CCB4		1		6.85	136.95	47464-1.RAW	12:43:41	633.00 Sample	OK	1
		A9	1	11.92	0.93	0.00	47465-1.RAW	12:47:49	96.17 Sample	OK	1
	ws			11.92	4.48		47467-1.RAW	12:56:38	418.23	OK	1
	ws			11.92	0.56		47468-1,RAW	13:00:46	62.89 Sample	OK	1
	ws			11,92	0.48		47469-1.RAW	13:04:55	55.65 Sample	OK	1
	WS	24		11.92	0.46		47470-1.RAW	13:09:03	54.05 Sample	OK	1
	SEQ-CCV5	C1	1	11.92	5.91	118.13	47471-1.RAW	13:13:11	547.63 Sample	OK	1
- 4 -	SEQ-CCB6	C2	1	11.92	0.53	0.00	47472-1.RAW	13:17:20	59.91 Sample	OK	1
MM	1608154-15RE1		1E+06	11.92	4181110.18		47466-2.RAW	13:24:03	315,30 Sample	OK	1
8-11-16	1608154-16	A11	1E+06	11.92	1581794.68		47473-1.RAW	13:28:12	126.69 Sample	OK	1
	1608154-17	A12	1E+06	11.92	2779216.58		47474-1.RAW	13:32:20	213.58 Sample	OK	1
	1608154-18	B1	1E+06	11.92	1696374.50		47475-1.RAW	13:36:28	135.01 Sample	OK	1
	1608154-19	B2	1E+06	11.92	1209469.63		47476-1.RAW	13:40:37	99.68 Sample	OK	1
	1608154-20	B3	1E+06	11.92	374885.02		47477-1.RAW	13:44:45	39.12 Sample	OK	1
	CLEAN						47478-1.RAW	13:47:37	0.00 Clean	NP	1
	CLEAN			0.00	0.17		47479-1.RAW	13:50:28	15.39 Clean	OK	1
	CLEAN			0.00	0.20		47480-1.RAW	13:53:19	18.48 Clean	OK	1
	WS			11.92	0.36		47481-1.RAW	13:57:28	44.23 Sample	OK	1
	WS			11.92	0.22		47482-1,RAW	14:01:36	31.59 Sample	OK	1
	ws			11.92	0.21		47483-1.RAW	14:05:45	31.22 Sample	OK	1
	WS			11.92	3.80		47484-1.RAW	14:09:53	356.51 Sample	OK	1
	CLEAN						47485-1.RAW	14:12:44	0.00 Clean	NP	1
	WS			11.92	0.05		47486-1.RAW	14:16:53	16.46 Sample	OK	1
	WS			11.92	0.60		47487-1.RAW	14:21:01	66.74 Sample	OK	1
	ws			11.92	0.30		47488-1.RAW	14:25:10	39.41 Sample	OK	1
Page	ws			11.92	0.20		47489-1.RAW	14:29:18	30.51 Sample	OK	1
ge	WS			11.92	0.27		47490-1.RAW	14:33:26	36.67 Sample	OK	1
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WS	11.92	0.25	47491-1.RAW	14:37:35	34.51 Sample	OK	4
WS	11.92	0.29	47492-1.RAW	14:41:43	38.07 Sample	OK	1
ws	11.92	0.33	47493-1.RAW	14:45:52	42.14 Sample	OK	1
WS	11.92	0.37	47494-1.RAW	14:50:00	45.63 Sample	OK	1
WS	11.92	0.28	47495-1.RAW	14:54:09	37.58 Sample	OK	1
WS	11,92	0.31	47496-1.RAW	14:58:17	39.95 Sample	OK	1
k			47497-1.RAW	15:13:42	3.97 Clean	OK	1
Clean			47498-1.RAW	15:16:33	0.00 Clean	NP	4
Clean			47499-1.RAW	15:19:25	0.00 Clean	NP	- 8
Clean			47500-1.RAW	15:22:16	14270.57 Clean	FB	14
Clean			47501-1.RAW	15:25:07	0.00 Clean	NP	0.9
Clean			47502-1.RAW	15:27:59	24.27 Clean	OK	
Clean			47503-1.RAW	15:30:50	247.41 Clean	OK	
Clean			47504-1.RAW	15:33:41	0.00 Clean	NP	-

Failing Data Report - 6H11005

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
6H11005-CCV4	Hg-CVAFS-W-1631	6.85	0.495			5.0000	ng/L	137	77.00	123.00			PASS-OVER	FAIL-CCV	<i>le run</i>
6H11005-CCB4	Hg-CVAFS-W-1631	0.93	0.495				ng/L						PASS-OVER	FAIL-CCB	rerun
6H11005-CCB5	Hg-CVAFS-W-1631	0.53	0.495				ng/L						PASS-OVER	FAIL-CCB	failed

Analyst Reviewed By

8/11/16

Date

Peer Reviewed By

Date

ANALYSIS SEQUENCE

6H11005

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6H11005-IBL1	QC	1			
6H11005-IBL2	QC	2			
6H11005-IBL3	QC	3			
6H11005-CAL1	QC	4	1603274		
6H11005-CAL2	QC	5	1603275		
6H11005-CAL3	QC	6	1603276		
6H11005-CAL4	QC	7	1603277		
6H11005-CAL5	QC	8	1603278		
6H11005-ICV1	QC	9	1603625		
F608263-BLK1	QC	10			
F608263-BLK2	QC	-11			
F608263-BLK3	QC	12			
F608263-BLK4	QC	13			
F608263-BS1	QC	14	1	j = -	
F608263-BSD1	QC	15			
1607542-01	Hg-CVAFS-W-1631	16			Scan all data for level IV report
1607542-02	Hg-CVAFS-W-1631	17			Scan all data for level IV report
1607542-03	Hg-CVAFS-W-1631	18			Scan all data for level IV report
1607542-04	Hg-CVAFS-W-1631	19			Scan all data for level IV report
6H11005-CCV1	QC	20	1603625		and the control of th
6H11005-CCB1	QC	21			
1607542-05	Hg-CVAFS-W-1631	22			Scan all data for level IV report
1607542-06	Hg-CVAFS-W-1631	23			Scan all data for level IV report
1607542-07	Hg-CVAFS-W-1631	24			Scan all data for level IV report
1607542-09	Hg-CVAFS-W-1631	25			Scan all data for level IV report
1607586-19	Hg-CVAFS-W-1631	26			Scan all data - Level IV
1607586-20	Hg-CVAFS-W-1631	27			Scan all data - Level IV
1607586-21	Hg-CVAFS-W-1631	28			Scan all data - Level IV
1607805-01	Hg-CVAFS-W-1631	29			Scan all data - Level IV
1607805-02	Hg-CVAFS-W-1631	30			Scan all data - Level IV
1608038-01	Hg-CVAFS-W-1631	31	7		Do not oven samples (CCV 90-110%, CCB <), <1/2 PQL
6H11005-CCV2	QC	32	1603625		7. 107, 000 -), 1/2 FQE
5H11005-CCB2	QC	33			
1608109-01	Hg-CVAFS-W-1631	34			
1608109-03	Hg-CVAFS-W-1631	35			

Due Date: 8/11/2016

ANALYSIS SEQUENCE

6H11005

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/10/2016

		The second			
Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1608109-05	Hg-CVAFS-W-1631	36			
1608109-07	Hg-CVAFS-W-1631	37			
1608109-09	Hg-CVAFS-W-1631	38		1	
1608109-11	Hg-CVAFS-W-1631	39			
F608263-MS1	QC	40		11 11	
F608263-MSD1	QC	41			
F608263-MS2	QC	42			
F608263-MSD2	QC	43			
6H11005-CCV3	QC	44	1603625		
6H11005-CCB3	QC	45			
F608263-DUP1	QC	46			
6H11005-CCV4	QC	47	1603625		
6H11005-CCB4	QC	48			
6H11005-CCV5	QC	49	1603625		
6H11005-CCB5	QC	50			

Samples Loaded By

D

1092 ed 8/10/16

Data Processed By

D

Due Date: 8/11/2016

F608263

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/10/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608263-BLK1	Blank	100	101					Source:1607542-08
F608263-BLK2	Blank	100	101					Source:1607542-08
F608263-BLK3	Blank	100	101					Source:1607542-08
F608263-BLK4	Blank	100	102					
F608263-BS1	LCS	50	50.5	1505246	100			
F608263-BSD1	LCS Dup	50	50.5	1505246	100			
F608263-DUP1	Duplicate [1607542-01]	100	101					
F608263-MS1	Matrix Spike [1607542-06]	49.50495	50	1603190	25			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F608263-MS2	Matrix Spike [1607805-02]	49.50495	50	1603190	25			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F608263-MSD1	Matrix Spike Dup [1607542-06]	49.50495	50	1603190	25			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F608263-MSD2	Matrix Spike Dup [1607805-02]	49.50495	50	1603190	25			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL

Standard ID(s): 1505246

1603190

Description:

Nist 1641D 200X

THg 10ng/mL Calibration Standard

Expiration:

20-Aug-16 00:00

15-Sep-16 00:00

Page 25 of

Date: 8/11/2016

F608263

Eurofins Frontier Global Sciences, Inc.

Matrix: Water Prepared using: AFS - EPA 1631E BrCl Oxidation

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607542-01	OL-2434-01	100	101			7	Scan all data for level IV report	
1607542-02	OL-2434-01 Dissolved	100	101	4		Н	Scan all data for level IV report	
1607542-03	OL-2434-02	100	101		12	*	Scan all data for level IV report	
607542-04	OL-2434-03	100	101	95		1	Scan all data for level IV report	
607542-05	OL-2434-04	100	101	-	19	-	Scan all data for level IV report	
607542-06	OL-2434-05	100	101	4	V4.7	6	Scan all data for level IV report	
607542-07	OL-2434-06	100	101		130		Scan all data for level IV report	
607542-09	Laboratory Filter Blank	100	101	1.0	193	7·	Scan all data for level IV report	
607586-19	1532 WQ-FPT_071816_SW_10	100	101	1	1.0	Name of Street	Scan all data - Level IV	
607586-20	1532 WQ-FPT_071816_SW_10 Dissolved	100	101	1.0%	1.4	14	Scan all data - Level IV	
607586-21	1533 EB_071916_SW_QC Dissolved	100	101	7.07	p.÷ q	÷	Scan all data - Level IV	
607805-01	ADD-02_072216_SW_10	100	102			-	Scan all data - Level IV	
607805-02	ADD-02_072216_SW_10 Dissolved	100	101	1.5		*	Scan all data - Level IV	
608038-01	August 2016 Monthly Water ICPMS Sink 1	100	101	5	-		Do not oven samples (CCV 90-110%, (
608109-01	C141742 003 Blank	100	101	1	-1			
608109-03	C142057 003	100	101	-	è	14		
109-05	C142063 003 DUP	100	101	- (è -)	-91	4		
Page 109-07	C142061 001 Blank	100	101	7.4		4		
26 of 162	C141746 001	100	101			-		

Prepared: 8/10/2016

F608263

Eurofins Frontier Global Sciences, Inc.

Matrix: Water	Prepared using: AFS - EPA 1631E BrCl Oxidation	Prepared: 8/10/2016

1608109-11 Bottle 1 001 DUP 100 101 - - -



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e Date: 8/11/2016

F608263

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/10/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608263-BLK1	Blank	100	101					IV
F608263-BLK2	Blank	100	101					17
F608263-BLK3	Blank	100	101					17
F608263-BS1	LCS	100	101	1505246	100			1×
F608263-BSD1	LCS Dup	100	101	1505246	100			14
F608263-DUP1	Duplicate 1608542-01	100	101					/×
F608263-MS1	Matrix Spike 1608542-06	100	101	1603 AO	25			1×
F608263-MS2	Matrix Spike	100	101	1603140	25			1×
F608263-MSD1	Matrix Spike Dup 1600542-06	100	101	1603/90	25			1×
F608263-MSD2	Matrix Spike Dup	100	101	1603190	25	1000		X

1607805-02

Standard ID(s):

Description:

Expiration:

100 102

e Date: 8/11/2016

F608263

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/10/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments	
1607542-01	OL-2434-01	100	101	- 30	9.7	-	Scan all data for level IV report		
1607542-02	OL-2434-01 Dissolved	100	101	7-34	11-0		Scan all data for level IV report		
1607542-03	OL-2434-02	100	101	.±/	15	-	Scan all data for level IV report		
1607542-04	OL-2434-03	100	101	1	121	•	Scan all data for level IV report		
1607542-05	OL-2434-04	100	101	*	7-	11.2	Scan all data for level IV report		
1607542-06	OL-2434-05	100	101	75	100		Scan all data for level IV report		
1607542-07	OL-2434-06	100	101	*	•	1	Scan all data for level IV report		
1607542-09	Laboratory Filter Blank	100	101	195.0		4	Scan all data for level IV report		
1607586-19	1532 WQ-FPT_071816_SW_10	100	101		-	÷	Scan all data - Level IV		
1607586-20	1532 WQ-FPT_071816_SW_10 Dissolved	100	101				Scan all data - Level IV		
1607586-21	1533 EB_071916_SW_QC Dissolved	100	101	-1	-	- 0	Scan all data - Level IV		
1607805-01	ADD-02_072216_SW_10	100	102	1,1200	-	.,	Scan all data - Level IV		9
1607805-02	ADD-02_072216_SW_10 Dissolved	100	101		700	÷0	Scan all data - Level IV	X</td <td></td>	
1608038-01	August 2016 Monthly Water ICPMS Sink I	100	101	1.5	7		Do not oven samples (CCV 90-110%, t	ıΧ	5
1608109-01	C141742 003 Blank	100	101	-	81		1×		
1608109-03	C142057 003	100	101	-	-		IX		
1608109-05	C142063 003 DUP	100	101	2.1	-	٠	1×		
8109-07	C142061 001 Blank	100	101	-6	-		14		
8109-07 8109-09 8109-09	C141746 001	100	101	13-1	12	÷	14		

F608263

Eurofins Frontier Global Sciences, Inc.

Prepared: 8/10/2016 Prepared using: AFS - EPA 1631E BrCl Oxidation Matrix: Water

Bottle 1 001 DUP 1608109-11 5533

Initial preservation Technician:		16 Time Completed: 16,50	Work Orders: 607537, 1607538 1607539, 1607540, 1607542
Additional preserv	ation and/or verific	cation (as needed)	BrCI LIMS ID: 1603196
Technician:	Date:	Time Completed:	Pipette SN: MU32226
Technician:	Date:	Time Completed:	Cal. Date: 7/8/16

	_			Addition	nal preservation (as	needed)
Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Oxidized? Y/N	Reagent added (mL)	Oxidized? Y / N
1607537-01A	300	3.60	Y			110
1607537-02A	300	300	Ÿ			
1607137-03A	300	3.00	Y			
1607538-01A	700	3.00	4			
1607538-02A	300	3.00	+			
1607438-63A	300	3.00	Y			
607539-01A	300	3.00	1			
1607539-02A	300	3,00	Y			
1607539-03A	300	3.00	1			
1607538-04A	300	3.00	4			
1607539-0518	716	15.00	4			
1607539-06A	340	3.00	Y			
1607540-01A	255	2.55	V			
1607542 - OLA	170	1,70	4			
1607942-02A	150	1.50	4			
W7542-03A	300	3.00	7			
1607942-04A	300	3.00	J			
1607542-05A	300	3.00	4			
1607542-06 A	300	3.00	y			
1607542-07A	300	3.00	Y			
1607942-08A	300	7,00	Y			
1607542-09A	300	3.00	ď			
1607544 VOIA	300	3.00	Y			
1607544-02A	700	3,00	4			
1607544-03A	300	3,00	1			
1607544-04A	300	3,00	1			

Oxidation with BrCl is cor	nfirmed by a yello	w color change of the	sample and/or a	purple color change	in KI starch paper.
omments:					

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Initial preservation	n and/or verification	Time Completed: 17:45	Work Orders: 1607576
Additional preserv	vation and/or verific	cation (as needed)	BrCI LIMS ID: 1603196
Technician:	Date:	Time Completed:	Pipette SN: MU32229
Technician:	Date:	Time Completed:	Cal. Date: 7/8/6

		I de la companya de l		Addition	nal preservation (as	needed)
Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Oxidized? Y/N	Reagent added (mL)	Oxidized?
1607586-01A	300	3.00	V	17.0	(mL)	Y/N
607586-02A	300	3.00	Y			
1607586-01A	306	3.00	Ų		1	
1607586-04A	300	3.00	4			
1607586-05A	300	3.00	Y			
1607586 - 06A	300	3.00	Y			
1607586 -07A	300	3.00	Y			
G07586 -081A	300	3.00	Y			
607586-09A	300	3.00	Ů,			
67586-1UA	300	3.00	ĭ			
607586-1LA	300	3.00	Y			
607586-12A	300	3.00	V			
1607586-13A	300	3.00	4			
1607586-14A	300	3.00	V			
607586 -15A	300	3.00	4			
60756-16A	300	3.00	d			
07580-17A	300	3,00				
3075F6-18A	300	3.00	Y			
607536-19A	300	3.00	Ý			
60754 - 20A	300	3.00	Y			
607586-21A	300	7.00	4			
						<u> </u>
		you H	01///			
		-1- //-	110			
Widotion with D.Cl.						

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

Comments:		
-		

Initial preservation	n and/or verificatio	n	Work Orders: 1607799, 1607803
Technician: CSQ	Date: 7/27	7/16 Time Completed: 1715	Work Orders: 1607799, 1607803
Additional preserv	ation and/or verific	cation (as needed)	7/27/16 BrCI LIMS ID: 1603196
Technician:	Date:	Time Completed:	Pipette SN: MU32224
Technician:	Date:	Time Completed:	Cal. Date: 7/8/16

				Addition	nal preservation (as	needed)
Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Oxidized? Y/N	Reagent added (mL)	Oxidized?
1607799-01 A	300	3.00	N.		477.7	.,,.,
1607799-02 A	300	3.00	TW			
1607799-03A	300	3.00	W			
1607799-09A	300	3.00	TVY			
1607799-05A	300	15,00	WI			
607799-06A	300	3.00	IN			
607803-01 A	300	3.00	w			
1607803-02A	300	3.00	101			
607803-03A	300	3.00	W			
607803-04 A	300	3.00	W			
607803-05 A	300	3.00	W/			
607803-06A	300	3.00	Ty	~		
1607803-07A	300	3,00	W			
1607805-01 A	300	3.00 43.00	m			
607805-02 A		3.00	n			
					The state of the s	>
	10	07	121/1	6		
		K				
		9				

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

Comments:			

REVENERY

Doge

echnician: LM	Date: 81116	Time Completed:	6:35	160	18038		
Additional preservation	and/or verification	(as needed)		BrCl LIN	MS ID: 1603191	6	
echnician:	Date:	Time Completed:			SN: MU3222		
echnician:				Cal. Da	te: 729/16		
				Additional preservation (as needed)			
Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Oxidized? Y/N	Reagent added (mL)	Oxidized?	
USB34-07A	300	3.00	7		(77.72)	1 1 1 1 1 1	
68034-02A	300	3.00	Y				
508034-03A	300	7.00	9				
608038-01A	260	2,60	4				
						7	
					/		
			/				
			/				
			/				
	/	1 m 81	11/4				
	/	2,, 01	1				
	/						
	/						
			· ·				
		N					
						in.	
					r change in KI starch		

Reviewed 8/2/16

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Initial preservation	n and/or verificatio	Work Orders: 1608104,1608114			
Technician: (5)	Date: 8/3/	16 Time Completed: 1750	1608113,1608108,1608071		
Additional preservation and/or verification (as needed)			BrCI LIMS ID: 1603196		
Technician:	Date:	Time Completed:	Pipette SN: MU32229 1603825		
Technician:	Date:	Time Completed:	Cal. Date: 7/29/16		

		1		Addition	nal preservation (as	needed)
Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1608104-01A	600	6.00	V			
1608109-03/	600	6.00	JW			
1608109-05A	600	6,00	W			
1608109-07A	600	6.00	W			
1608109-09A	600	6.00	9			
1608109-11A	600	6.00	W			
1608113-01 A	176	1.70	W			
1608113-02 A	156	1.50	ny			
1608113-03A	300	3.00	N			
1608113-04A	300	3.00	1w			
1608113-05A	170	1.70	W			
1608113-06A	160	1.60	n			
1608113-07A	300	3.00	N			
1608113-08A	300	3.00	ly		/	
1608113-09 A	300	3.00	N			
1608113-10A	300	3.00	IN			
1608108-01 A	300	3.00	W			
1608108-02A	300 300 300	3.00	1 W			
1608 108-03 A	3.00 58 500	3,00	VI			
608108-05A	300	15,00	Ý			
1608108-04 A	3.00 0788/3/16	3.00	OW			
608108-06A	3.00 0 288/3/6	3.00	WI			
1608071-12	150	1.50	IW			
1608071-13	150	1.50	n			
1608071-19	150	1.50	T W			
1608 114-01B	10	10.00	N			

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

comments: \$ 50/50 BECI using Beci 1603825 - sample spiked in temperature

Reviewed 8/6/16 pm Page 35 of 162

Peer Review Check List for THg by 2600 CV-AFS (FGS-121) 2016 Rev 1 (04/1/2016)

Analyst:	BC	Sequence(s) #:	6H11005	
Reviewer:		Dataset ID(s):	THg26003-160810-1	
Date:	8/11/2016	WO (s) #:	1607542, 1607586, 1607805, 1608038, 1608109	
Batch #(s):	F608263			

Select the correct preparation method.

Analyte	Prep Method		Matrix
☐ THg	EFAFS-T-AFS-SOP2985	FSTM Trap 70:30 Digest	Air/Gas
☐ THg	EFAFS-T-AFS-SOP2807	Modified Cold Aqua Regia	Sed/Soi
☐ THg	EFAFS-T-AFS-SOP2821	Shared Bomb- HF/HNO3/HCI Digest	Sed/Soi
☐ THg	EFTM-T-TM-SOP2825	Nitric Acid Oven Bomb	Sed/Soi
□ тHg	EFAFS-T-AFS-SOP2795	70:30 Digest	Tissue
☐ THg	EFAFS-T-AFS-SOP2800	KCI Trap BrCl Oxidation	Air/Gas
☐ THg	EFTM-T-TM-SOP2837	Shared Nitric	Tissue
☑ THg	EFSR-P-SP-SOP2796	BrCl Oxidation	Water
□ Hg0	NA	NA	Water
☐ Inorg Hg	NA	NA	Water

	Analyst Initials:	BC	Reviewer Initials	D	MW	
1. Compare SampleID wit	th Benchsheet/Sequence/Raw Data (Have all samples been imported	1?)	✓ YES	□ NO		D
2. Check for transcription	errors from Excel spreadsheet (or Prep Benchsheet)/Raw data		✓ YES	□ NO		
(a) On raw data (instru	ment print-out), does correct file (dataset ID#) name appear in descri	ption?	YES	□ NO		0
Naming convention:	: THg26001-yymmdd-1 or THg26002-yymmdd-1					
(b) Check 5% of transc	ription from Instrument print-out and Excel file		YES YES	□ NO		D
Compare the "Dilute	e" and "Peak (raw)" columns to "Dilution" and "Uncorrected Result" in	Excel				
(c) Check standards &	reagents in sequence & bench sheet for correct usage (expiries).		YES YES	□ NO	□ N/A	
	e masses (review prep benchsheet)		YES	□ NO	N/A	
(e) Check & compare in	nitial & final volumes		YES	□ NO	□ N/A	D
(f) Do aliquots and dilu	tions written on benchsheet match those in Excel?		YES	□ NO	□ N/A	
50 ml / aliquot = Exc	el dilution value					
(g) Is the sequence #,	analyst, date, and instrument # on the QC page?		YES	☐ NO		9
(h) Is the analysis statu	us correct? (analyzed/initial review/reviewed)		☑ YES	□ NO		1
(i) Original prep bench	sheet added to data package?		YES	□ NO		G
(j) Benchsheet prep da	te MUST match actual prep date (check if re-shot vs re-extract)		YES	□ NO		
3. High QA?	WO#(s)/Client(s):		☐ YES	✓ NO		B
4. Client specific QC? (if	Yes, refer to Project Notes/LIMS)	W	☐ YES	☑ NO		
(a) Have the QC requir	rements been met for all WO#s?		✓ YES	□ NO		1
(b) Prep blanks correct	ions/assigned properly		✓ YES	☐ NO		
5a. 20 or fewer samples in	n batch?		✓ YES	□ NO		Ø
(i) 3 PBs, 1 LCS(or BS)), 1 LCSD(or BSD), 1 DUP/Batch 1 MS/MSD (or AS/ASD)/10 sample	s?	✓ YES	□ NO		d
(ii) 1 CCV and 1 CCB e	every 10 analytical runs?		✓ YES	□ NO		

Peer Review Check List for THg by 2600 CV-AFS (FGS-121) 2016 Rev 1 (04/1/2016)

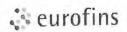
Analyst: Reviewer:	BC 0	Sequence(s) #:						
ALCOHOLOGICAL PROPERTY.	STATE OF THE STATE	Dataset ID(s):	THg26003-160810-1					
Date: Batch #(s):	8/11/2016 F608263	WO (s) #:	WO (s) #: 1607542, 1607586, 1607805,1608038, 1608109					
		Applied Initial	0.7	Reviewer	7	10/		
		Analyst Initials		Initials	-DM			
5b. Has the B	/C section data been uploaded?			YES	□ NO	✓ N/A		
QA/QC Data	Checked							
6. RSD CF (≤	15%)			PASS	☐ FAIL		0	
Comments	s:							
7. The calibra	tion curve included a minimum of 5 Standards			✓ YES	□ NO		7	
Comments								
8. 1st Calibrat	tion Standard % Recoveries EPA 1631E (75-125%)		✓ PASS	FAIL			
9. ICV and CO	CV % Recoveries EPA 1631E (77-123%)			✓ PASS	☐ FAIL			
Comments								
10. Do all cali	bration points pass acceptance criteria?			✓ YES	□ NO			
Comments								
11.Are qualifie	ers consistant with the data review flowcharts?			YES	□ NO	✓ N/A	B	
Comments	s:							
12. Explain ar	ny items on the failed data report from Element						M	
Comments	Closing CCV/CCB Failed, Dup not reportable							
13. Are the ind	ividual Preparation Blanks < PQL or <2.2xMDL for WI (r	efer to appropriate prep me	ethod PQL list)	✓ PASS	FAIL		3	
(a) If not <	PQL or <2.2xMDL for WI, note which PB(s) are about	ove control limit:						
(b) Is the m	ean PB < PQL or <2.2xMDL for WI (for appropriate	e qualification)?		✓ YES	□ NO			
(c) Was a E	BrCI Blank analyzed for each preservation level?			✓ YES	□ NO	□ N/A		
	paration Blanks summarized on QC page?			✓ YES	□ NO			
14. Filtration E	Blank Prepared (if yes, use FB qualifier)			✓ YES	□ NO			
(a) Filtration	n Blank prep date same as associated samples' pro	ep date		✓ YES	□ NO	□ N/A	g	
(b) Filtration	n Blank absolute value < PQL or <2.2xMDL for WI			✓ YES	□ NO	□ N/A	A	
15. IBLs (3 m	inimum) individually < 0.50 ng/L, mean < 0.25 ng/	L and STD of 0.10 ng/L?		PASS	☐ FAIL			
Comments								
16. CCBs indiv	vidually < 0.50 ng/L or 2.2 x MDL for WI?			PASS	☐ FAIL		Ø	
Comments								
17. Have Tota	al Solids been applied? (If NO, please ensure that t	hey are done or nearly d	lone)	☐ YES	□ NO	✓ N/A	2	
18. Is the corr	ect 'Source' designated for MD/MS/MSD?			✓ YES	□ NO			
19. For digest	ed preps: was there a spike witness signature & da	ite on the prep bench sh	eet?	YES	☐ NO	✓ N/A	\square	

Peer Review Check List for THg by 2600 CV-AFS (FGS-121) 2016 Rev 1 (04/1/2016)

Analyst:	BC	Sequence(s) #:	Charles and the control of the contr				
Reviewer:	0	Dataset ID(s):	THg26003-160810-1				
Date:	8/11/2016	WO (s) #:	1607542, 1607586, 1607805,16	08038, 160	3109		
Batch #(s):	F608263		0				
		Analyst Initials	BC	Reviewer Initials	DM	W	
	Spiked at least 1-5 X ambient or 5x MRL (whichever is	01-01-01		¥ YES	□ NO		Ø
21. Are all sar	nples within instrument calibration range? (or at minim	num dilution size)		PASS	☐ FAIL		
22. Are the sa	mples run at the correct dilution level for the method?			✓ YES	□ NO		1
	< Total (if applicable)			✓ YES	□ NO	□ N/A	Ø
	Influent (visually confirm if needed)			☐ YES	□ NO	✓ N/A	D
	s noted with reason?			YES	□ NO	✓ N/A	9
the FSTM A (i	asets: Check to ensure the 'Response' & 'Initial Resul n sequence) & B/C (in batch) traps?	t' columns match in b	oth the Excel dataset & LIMS for	YES	□ NO	☑ N/A	Ø
Comments	X						1
	rap <5% A Traps			YES	□ NO	✓ N/A	
28. Are spiked	trap recoveries75-125% of true value?			YES	□ NO	✓ N/A	Ø
	reportable samples been imported into LIMS and click	ked to non-reportable	?	☐ YES	□ NO	✓ N/A	1
30. Have re-ex	stracts been created for non-reportable samples?			YES	□ NO	✓ N/A	Ø
	any HIGH QA projects within the data? If so, place dat	ta package in QA		☐ YES	□ NO	✓ N/A	
32. Does the	data set need scanning?			✓ YES		□ N/A	V
33. Does the	dataset have an LOQ/LOQ or DOC?			YES		✓ N/A	Ø
34. Water san	ples: has the preservation log been included in datase	et for final volume ver	ification?	✓ YES	□ NO	□ N/A	Ø
	pples-is the final volume correct in the sequence?	e for final volume ver	incation:	☑ YES	□ NO	□ N/A	D.
	at: \\Cuprum\gen admin\Quality Assurance\Traini	na Mastar/DOCs			201	□ 10/A	
	alyst IDOC/CDOC: 12/17/15		OC/CDOC within last 12 months?	✓ YES	□ NO		
	alyst's SOP reading for method: DH ESSUE	Cont chan			□ NO		
38. Date of LC	(hale		LOD within last 3 months?	✓ YES	□ NO		
39. Date of LO	11.14		LOQ within last 3 months?	✓ YES	□ NO		
	be reported without a current IDOC/CDOC, LOD or	100	LOQ within last 3 months?				_

Peer Review Check List for THg by 2600 CV-AFS (FGS-121) 2016 Rev 1 (04/1/2016) Analyst: BC Sequence(s) #: 6H11005 Reviewer: 0 Dataset ID(s): THg26003-160810-1 Date: 8/11/2016 WO (s) #: 1607542, 1607586, 1607805, 1608038, 1608109 Batch #(s): F608263 DMW 40. Peer Reviewer's comments (use Peer Review Checklist Additional Comments form if necessary): NO DUP available for Batch, The instrument was spiked from a trap sample in the Same bracket which chused the civicis to fail. BC B/11/16/ Additional Page (s)?

MMHg27001-160812-1 solids



Frontier Global Sciences

Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: August 12, 2016

Instrument #: Hg2700-1 LIMS Sequence #: 6H12012/0 N 8/15/16

Analyst: RN Units ng/L

Calibration Statistics:

libration Stati	,	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	
LabNumber	- 11		34,53 units	690.64	32.30 units	646.03	97.5 %Rec
SEQ-CAL1	1	0.05 ng/L	142.05 units	710.25	139.82 units	699.09	105.5 %Rec
SEQ-CAL2	1	0.20 ng/L	The result of the state of	551.84	549.61 units	549.61	82.9 %Rec
SEQ-CAL3	1	1.00 ng/L	551.84 units		1313.53 units	656.76	99.1 %Rec
SEQ-CAL4	1	2.00 ng/L	1315.76 units	657.88	3050.61 units	762.65	115.1 %Rec
SEQ-CAL5	1	4.00 ng/L	3052.84 units	763.21	3030.01 units	702.03	
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEO-CAL9	0						

Uncorr. Mean RF Corr. St Dev RF Corr. RSD CF Corr. Mean RF 674.76 11.8% RSD +/- 78.13 662.83

Blanks: Mean (ng/L) Std Dev (ng/L) Std Dev Mean LabNumber #VALUE! 0.00 ng/L 2.23 units SEQ-IBL

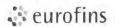
Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.005 ng/L	±0.004
BLK	2	3	0.013 ng/L	±0.003
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

JUALITY ASSURANCE MITTALS: JH SIISIIC

	_	Sample			3.90		0	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
strument	Analyst	Туре	LabNumber	Dilution	Analyzed	FileID	Run End	2.23		COLLEGIS	0.0	0.000	0.000	ng/L	
	RN		SEQ-IBL1	1	8/12/16 8:27	14252-1.RAW	8:27	34.53			32.3	0.049	0.049	ng/L	
lg2700-1	RN	CAL	SEQ-CAL1	1	8/12/16 8:38	14253-1.RAW	8:38	142.05			139.8	0.211	0.211	ng/L	
lg2700-1	RN	CAL	SEQ-CAL2	1	8/12/16 8:48	14254-1.RAW	8:48	551.84			549.6	0.829	0.829	ng/L	
4g2700-1		CAL	SEQ-CAL3	1	8/12/16 8:59	14255-1.RAW	8:59		-		1313,5	1.982	1.982	ng/L	
Hg2700-1	RN	CAL	SEO-CAL4	1	8/12/16 9:09	14256-1.RAW	9:09	1315.76			3050.6	4.602	4.602	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL5	1	8/12/16 9:20	14257-1,RAW	9:20	3052.84			331.5	0.500	0.500	ng/L	
Hg2700-1	RN	CAL	SEQ-ICV1	1	8/12/16 9:30	14258-1.RAW	9:30	333.68			5.6	0.008	0.008	ng/L	
Hg2700-1	RN	CAL	SEQ-ICB1	1	8/12/16 9:41	14259-1.RAW	9:41	7.83		×	3.0	0.005	0.006	ng/L	
Hg2700-1	RN		F608273-BLK1	1.25	8/12/16 9:51	14260-1.RAW	9:51	5.22			4.2	0.006	0.008	ng/L	
Hg2700-1	RN	BLK	F608273-BLK2	1.25	8/12/16 10:02	14261-1.RAW	10:02	6.39		x	0.1	0.000	0.000	ng/L	
Hg2700-1	RN	BLK	F608273-BLK3	1.25	8/12/16 10:12	14262-1.RAW	10:12	2.30	-	×	340.2	0.513	0:642	ng/L	
Hg2700-1	RN	BLK		1.25	8/12/16 10:23	14263-1.RAW	10:23	342.44		×	467.0	0.705	0.881	ng/L	
Hg2700-1	RN	SAM	F608273-BS1	1.25	8/12/16 10:34	14264-1.RAW	10:34	469.25		×	74.9	0.113	0.141	ng/L	
Hg2700-1	RN	SAM	F608273-BSD1	1.25	8/12/16 10:44	14265-1.RAW	10:44	77.12		×	485.4	0.732	0.915	ng/L	
Hg2700-1	RN	SAM	F608273-DUP1	1.25	8/12/16 10:55	14266-1.RAW	10:55	487.64		×		0.732	0.318	ng/L	
Hg2700-1	RN	SAM	F608273-MS1	1.25	8/12/16 11:05	14267-1.RAW	11:05	171.08	4	×	168.8	0.520	0.650	ng/L	
Hg2700-1	RN	SAM	F608273-MS2	1.25	8/12/16 11:16	14268-1.RAW	11:16			X	344.5	0.320	0.255	ng/L	
Hg2700-1	RN	SAM	F608273-MSD1	1.25	8/12/16 11:26	14269-1.RAW	11:26	137.71		X	135.5	0.449	0.449	ng/L	
Hg2700-1	RN	SAM	F608273-MSD2	1,23	8/12/16 11:37	14270-1.RAW	11:37	300,07	7		297.8		0.005	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV1	1	8/12/16 11:47	14271-1.RAW	11:47	5.71			3.5	0.005	0.003	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB1		8/12/16 11:58	14272-1,RAW	11:58	29.21		x x	27.0	0.041	0.064	ng/L	
Hg2700-1	RN	SAM	1607542-01	1.25	8/12/16 12:08	14273-1.RAW	12:08		7	X	33.8	0.051	-	ng/L	
Hg2700-1	RN	SAM	1607542-03	1.25	8/12/16 12:19	14274-1.RAW	12:19	14.81	1	x	12.6	0.019	0.024	ng/L	
Hg2700-1	RN	SAM	1607542-04	1.25		14275-1.RAW	12:29		2	1 x	17.2	0.026	0.032	ng/L	
Hq2700-1	RN	SAM	1607542-05	1.25	8/12/16 12:29	14276-1.RAW	12:40		3	i x	20.8	0.031	0.039		
Hq2700-1	RN	SAM	1607542-06	1.25	8/12/16 12:40	14277-1.RAW	12:50		5	1 ×	14.2	0.021	0.027	ng/L	
Hg2700-1	RN	SAM	1607542-07	1,25	8/12/16 12:50	14278-1.RAW	13:01		9	1 ×	10.7	0.016	0.020	ng/L	
Hg2700-1	RN	SAM	1607586-12	1.25	8/12/16 13:01	14279-1.RAW	13:11		5	1 ×	19.2	0.029	0.036	ng/L	
Hg2700-1	RN	SAM	1607586-19	1.25	8/12/16 13:11	14280-1.RAW	13:22			1 x	6.5	0.010	0.012	ng/L	
Hq2700-1	RN	SAM	1607586-20	1.25	8/12/16 13:22	14280-1.RAW	13:32			1 ×	0.1	0.000	0.000	ng/L	
Hg2700-1	RN	SAM	1607586-21	1,25	8/12/16 13:32		13:43	0.00			397.3	0.599	0.599	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV2	1	8/12/16 13:43	14282-1.RAW	13:53				1.0	0.001	0.001	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB2	1	8/12/16 13:53	14283-1.RAW	14:04	-		1 x	16.4	0.025	0.031	ng/L	
Hg2700-1	RN	SAM	1607772-01	1.25	8/12/16 14:04	14284-1.RAW	14:14			1 x	11.0	0.017	0.021	ng/L	
Hg2700-1	RN	SAM	1607772-02	1.25	8/12/16 14:14	14285-1.RAW	14:14			1 x	23.0	0.035	0.043	ng/L	
Hg2700-1	RN	SAM	1607772-03	1.25	8/12/16 14:25	14286-1.RAW	14:25		-	1 x	8.7	0.013	0.016	ng/L	
Hg2700-1	RN	SAM	1607772-04	1.25	8/12/16 14:35	14287-1 RAW	14:35		er	1 x	10.0	0.015	0.019	ng/L	
	RN	SAM	1607772-05	1.25	8/12/16 14:46	14288-1.RAW				1 x	5.2	0.008	0.010	ng/L	
Hg2700-1	RN	SAM	1607772-06	1.25	8/12/16 14:56	14289-1.RAW	14:56		~	1 x	9.4	0.014	0.018	ng/L	
Hg2700-1	RN	SAM	1607772-07	1,25	8/12/16 15:07	14290-1.RAW	15:07			1 x	57.8	0.087	0.109	ng/L	
Hg2700-1	RN	SAM	1607586-04RE3	1.25	8/12/16 15:17	14291-1.RAW	15:17			1 x	376.3	0.568	0.710	ng/L	
Hg2700-1	-	SAM	1607805-01	1.25	8/12/16 15:28	14292-1.RAW	15:28		-	1 x	76.4	0.115	0.144	ng/L	
Hg2700-1	RN	SAM	1607805-02	1.25	8/12/16 15:38	14293-1.RAW	15:31		-	* *	341.2	0.515	0.515	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV3	1	8/12/16 15:49	14294-1.RAW	15:4				1.3	0.002	0.002	ng/L	
Hg2700-1	RN	-	SEQ-CCB3	1	8/12/16 15:59	14295-1.RAW	15:5	14.		5	6.9	0.010	0.010	ng/L	
Hg2700-1	RN	CAL	F608155-BLK1	1	8/12/16 16:10	14296-1.RAW	16:1			2	10.7	0.016	0.016	ng/L	
Hg2700-1	RN	BLK	F608155-BLK2	1	8/12/16 16:20	14297-1.RAW	16:2	12.9	12	2	10.7	0.020			

		Sample	1 - CANADA - A	Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
nstrument	Analyst	Туре	LabNumber				16:31	11.01	2	130000000000000000000000000000000000000	8.8	0.013	0.013	ng/L	
Hg2700-1	RN	BLK	F608155-BLK3	1	8/12/16 16:31	14298-1.RAW 14299-1.RAW	16:41	776.73	2		774.5	1.167	11.671	ng/L	
Hg2700-1	RN	SAM	F608155-BS1	10	8/12/16 16:41		16:52	779.46	2		777.2	1.171	11.713	ng/L	
Hg2700-1	RN	SAM	F608155-BSD1	10	8/12/16 16:52	14300-1.RAW	17:02	19.87	2		17.6	0.013	0.013	ng/L	
Hg2700-1	RN	SAM	F608155-DUP1	1	8/12/16 17:02	14301-1.RAW		645.63	2		643.4	0.969	9.694	ng/L	
Hg2700-1	RN	SAM	F608155-MS1	10	8/12/16 17:13	14302-1,RAW	17:13	677.95	2		675.7	1.018	10.181	ng/L	
Hg2700-1	RN	SAM	F608155-MSD1	10	8/12/16 17:23	14303-1.RAW	17.23	665.80	2		663.6	1.000	9.998	ng/L	
Hg2700-1	RN	SAM	F608155-MS2	10	8/12/16 17:34	14304-1.RAW	17:34		2		778.9	1.174	11.737	ng/L	
Hg2700-1	RN	SAM	F608155-MSD2	10	8/12/16 17:44	14305-1.RAW	17:44	781.10	2		453.1	0.684	0.684	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV4	1	8/12/16 17:55	14306-1.RAW	17:55	455.29			3.1	0.005	0.005	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB4	1	8/12/16 18:06	14307-1.RAW	18:06	5.37				0.621	0.621	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV5	1	8/12/16 18:16	14308-1.RAW	18:16	413.96			411.7	0.621	0.619	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV6	1	8/12/16 18:27	14309-1.RAW	18:27	412.44			410.2		0.014		
Hg2700-1	RN	SAM	1607782-15	1	8/12/16 18:37	14310-1.RAW	18:37	20.06	2		17.8	0.014		ng/L	
Hq2700-1	RN	SAM	1607782-16	1	8/12/16 18:48	14311-1.RAW	18:48	49.59	2		47.4	0.058	0.058	ng/L	
Hg2700-1	RN	SAM	1607782-17	1	8/12/16 18:58	14312-1.RAW	18:58	69.34	2		67.1	0.088		ng/L	
Hg2700-1	RN	SAM	1607782-18	1	8/12/16 19:09	14313-1.RAW	19:09	35.89	2		33.7	0.038	0.038	ng/L	
Hg2700-1	RN	SAM	1607782-19	1	8/12/16 19:19	14314-1.RAW	19:19	22.19	2		20.0	0.017	0.017	ng/L	
Ha2700-1	RN	SAM	1607782-20	1	8/12/16 19:30	14315-1.RAW	19:30	37.36	2		35.1	0.040	0.040	ng/L	
Hg2700-1	RN	SAM	1607782-21	1	8/12/16 19:40	14316-1.RAW	19:40	37.23	2		35.0	0.040	0.040	ng/L	
Hg2700-1	RN	SAM	1607783-01	1	8/12/16 19:51	14317-1.RAW	19:51	293.90	2		291.7	0.427	0.427	ng/L	
Hg2700-1	RN	SAM	1607783-02	1	8/12/16 20:01	14318-1.RAW	20:01	54.69	2		52.5	0.066	0.066	ng/L	
Hg2700-1	RN	SAM	1607783-03	1	8/12/16 20:12	14319-1.RAW	20:12	43.30	2		41.1	0.049	0.049	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV7	1	8/12/16 20:22	14320-1.RAW	20:22	293.87			291.6	0.440	0.440	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB5	1	8/12/16 20:33	14321-1.RAW	20:33	2.91			0.7	0.001	0.001	ng/L	
Hg2700-1	RN	SAM	1607783-04	1	8/12/16 20:43	14322-1.RAW	20:43	36.56	2		34.3	0.039	0.039	ng/L	
Hg2700-1	RN	SAM	1607783-05	1	8/12/16 20:54	14323-1.RAW	20:54	30.44	2		28.2	0.029	0.029	ng/L	
Hg2700-1	RN	SAM	1607783-06	1	8/12/16 21:04	14324-1.RAW	21:04	113.82	2		111.6	0.155	0.155	ng/L	
Hg2700-1	RN	SAM	1607783-07	1	8/12/16 21:15	14325-1.RAW	21:15	220.25	2		218.0	0.316	0.316	ng/L	
Hg2700-1	RN	SAM	1607783-08	1	8/12/16 21:25	14326-1.RAW	21:25	29.67	2		27.4	0.028	0.028	ng/L	
Hg2700-1	RN	SAM	1607783-09	1	8/12/16 21:36	14327-1.RAW	21:36	19.89	2		17.7	0.013	0.013	ng/L	
Hg2700-1	RN	SAM	1607783-10	1	8/12/16 21:46	14328-1.RAW	21:46	20.75	2		18.5	0.015	0.015	ng/L	
	RN	SAM	1607783-11	1	8/12/16 21:57	14329-1.RAW	21:57	69.74	2		67.5	0.089	0.089	ng/L	
Hg2700-1	RN	SAM	1607783-12	1	8/12/16 22:07	14330-1.RAW	22:07	31.76	2		29.5	0.031	0.031	ng/L	
Hg2700-1	RN	SAM	1607783-13	1	8/12/16 22:18	14331-1.RAW	22:18	19.86	2		17.6	0.013	0.013	ng/L	
Hg2700-1	RN	CAL	SEO-CCV8	1	8/12/16 22:28	14332-1.RAW	22:28	319.82			317.6	0.479	0.479	ng/L	
Hg2700-1 Hg2700-1	RN	CAL	SEQ-CCB6	1	8/12/16 22:39	14333-1.RAW	22:39	2.94			0.7	0.001	0.001	ng/L	



Frontier Global Sciences

Analysis Datasheet for Methyl Mercury in Waters

Date of Analysis: August 12, 2016 Instrument #: Hg2700-1

LIMS Sequence #: 6H120H7//

15/16

Analyst: RN
Units ng/L

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recover	
SEO-CAL1	1	0.05 ng/L	34.53 units	690.64	32.30 units	646.03	97.5 %Rec	
SEO-CAL2	1	0.20 ng/L	142.05 units	710.25	139.82 units	699.09	105.5 %Rec	
SEO-CAL3	1	1.00 ng/L	551.84 units	551.84	549.61 units	549.61	82.9 %Rec	
SEO-CAL4	1	2.00 ng/L	1315.76 units	657.88	1313.53 units	656.76	99.1 %Rec	
SEO-CAL5	1	4.00 ng/L	3052.84 units	763.21	3050.61 units	762.65	115.1 %Rec	
SEO-CAL6	0	7.7						
SEQ-CAL7	0							
SEQ-CAL8	0							

 Corr. Mean RF
 Corr. St Dev RF
 Corr. RSD CF
 Uncorr. Mean RF
 Eff Factor

 662.83
 +/- 78.13
 11.8% RSD
 674.76
 0.8046

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEO-IRI	1	2.23 units		0.00 ng/L	#VALUE!

	MIDIA OILLY
SEQ-CAL1	
SEQ-CAL2	
SEQ-CAL3	
SEQ-CAL4	
SEQ-CAL5	
SEQ-CAL6	NA
SEQ-CAL7	NA
SEQ-CAL8	NA
SEQ-CAL9	NA
SEQ-ICV/CCV	
Acetate Buffer	
Ethylating Ager	nt

MDN Only

Preparation Blanks

SEQ-CAL9

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.006 ng/L	±0.005
BLK	2	0	0.000 ng/L	
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

NITIALS: JH BLISK

		Sample						Uncorrected		No PB					
instrument	Analyst	Туре	LabNumber	Dilution	Analyzed	FileID	Run End	Response	Batch ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hq2700-1	RN	CAL	SEQ-IBL1	1	8/12/16 8:27	14252-1.RAW	8;27	2,23	-		0.0	0.000	0.000	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL1	1	8/12/16 8:38	14253-1.RAW	8:38	34.53			32.3	0.049	0.049	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL2	1	8/12/16 8:48	14254-1.RAW	8:48	142.05			139.8	0.211	0.211	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL3	1	8/12/16 8:59	14255-1.RAW	8:59	551.84			549.6	0.829	0.829	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL4	1	8/12/16 9:09	14256-1.RAW	9:09	1315.76			1313.5	1.982	1.982	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL5	1	8/12/16 9:20	14257-1.RAW	9:20	3052.84			3050.6	4.602	4.602	ng/L	
Hq2700-1	RN	CAL	SEQ-ICV1	1	8/12/16 9:30	14258-1.RAW	9:30	333.68			331.5	0.500	0.500	ng/L	
Hq2700-1	RN	CAL	SEQ-ICB1	1	8/12/16 9:41	14259-1.RAW	9:41	7.83			5.6	0.008	0.008	ng/L	
Hq2700-1	RN	BLK	F608273-BLK1	1.25	8/12/16 9:51	14260-1.RAW	9:51	5.22	1		3.0	0.006	0.007	ng/L	
Hq2700-1	RN	BLK	F608273-BLK2	1.25	8/12/16 10:02	14261-1.RAW	10:02	6.39	1		4.2	0.008	0.010	ng/L	
Hq2700-1	RN	BLK	F608273-BLK3	1.25	8/12/16 10:12	14262-1,RAW	10:12	2.30	1		0.1	0.000	0.000	ng/L	
Hq2700-1	RN	SAM	F608273-BS1	1.25	8/12/16 10:23	14263-1,RAW	10:23	342.44	1		340.2	0.633	0.792	ng/L	
Hq2700-1	RN	SAM	F608273-BSD1	1.25	8/12/16 10:34	14264-1.RAW	10:34	469.25	1		467.0	0.871	1.089	nq/L	
Hq2700-1	RN	SAM	F608273-DUP1	1.25	8/12/16 10:44	14265-1.RAW	10:44	77.12	1		74.9	0.136	0.170	ng/L	
Hq2700-1	RN	SAM	F608273-MS1	1.25	8/12/16 10:55	14266-1-RAW	10:55	487.64	1	1	485.4	0.906	1.132	ng/L	
Hq2700-1	RN	SAM	F608273-MS2	1.25	8/12/16 11:05	14267-1.RAW	11:05	171.08	1		168.8	0.312	0.390	ng/L	
Hg2700-1	RN	SAM	F608273-MSD1	1.25	8/12/16 11:16	14268-1.RAW	11:16	346.76	1		344.5	0.642	0.802	ng/L	
Hq2700-1	RN	SAM	F608273-MSD2	1.25	8/12/16 11:26	14269-1.RAW	11:26	137.71	1		135.5	0.250	0.312	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV1	1	8/12/16 11:37	14270-1.RAW	11:37	300.07	1		297.8	0.449	0.449	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB1	1	8/12/16 11:47	14271-1.RAW	11:47	5.71	1		3.5	0.005	0.005	ng/L	
Hg2700-1	RN	SAM	1607542-01	1.25	8/12/16 11:58	14272-1.RAW	11:58	29.21	1		27.0	0.046	0.058	ng/L	
Hq2700-1	RN	SAM	1607542-03	1.25	8/12/16 12:08	14273-1.RAW	12:08	36.07	1		33.8	0.059	0.074	ng/L	
Hq2700-1	RN	SAM	1607542-04	1.25	8/12/16 12:19	14274-1.RAW	12:19	14.81	1		12.6	0.019	0.024	ng/L	
Hq2700-1	RN		1607542-05	1.25	8/12/16 12:29	14275-1.RAW	12:29	19.42	1		17.2	0.028	0.035	ng/L	
Hq2700-1	RN	SAM	1607542-06	1.25	8/12/16 12:40	14276-1.RAW	12:40	23.00	1		20.8	0.034	0.043	ng/L	
Hq2700-1	RN	SAM	1607542-07	1.25	8/12/16 12:50	14277-1.RAW	12:50	16.45	1		14.2	0.022	0.028	ng/L	
Hq2700-1	RN		1607586-12	1.25	8/12/16 13:01	14278-1.RAW	13:01	12.89	1		10.7	0.015	0.019	ng/L	
Hq2700-1	RN		1607586-19	1.25	8/12/16 13:11	14279-1.RAW	13:11	21.45	1		19.2	0.032	0.039	ng/L	
Hg2700-1	RN		1607586-20	1.25	8/12/16 13:22	14280-1.RAW	13:22	8.72	1		6.5	0.008	0.010	ng/L	
Hg2700-1	RN		1607586-21	1.25	8/12/16 13:32	14281-1.RAW	13:32	2.33	1		0.1	-0.004	-0.005	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV2	1	8/12/16 13:43	14282-1.RAW	13:43	399.57			397.3	0.599	0.599	ng/L	
Hg2700-1	RN		SEQ-CCB2	1	8/12/16 13:53	14283-1.RAW	13:53	3.20			1.0	0.001	0.001	ng/L	
Hg2700-1	RN		1607772-01	1.25	8/12/16 14:04	14284-1.RAW	14:04	18.61	1		16.4	0.026	0.033	ng/L	
Hg2700-1	RN		1607772-02	1.25	8/12/16 14:14	14285-1.RAW	14:14	13.19	1		11.0	0.016	0.020	ng/L	
Hq2700-1	RN	SAM	1607772-03	1.25	8/12/16 14:25	14286-1.RAW	14:25	25.23	1		23.0	0.039	0.048	ng/L	
Hq2700-1	RN	SAM	1607772-04	1.25	8/12/16 14:35	14287-1.RAW	14:35	10.93	1		8.7	0.012	0.015	ng/L	
Hq2700-1	RN		1607772-05	1.25	8/12/16 14:46	14288-1.RAW	14:46	12.23	1		10.0	0.014	0.018	ng/L	
Hq2700-1	RN	SAM	1607772-06	1.25	8/12/16 14:56	14289-1.RAW	14:56	7.40	1		5.2	0.005	0.006	ng/L	
Hq2700-1	RN		1607772-07	1.25	8/12/16 15:07	14290-1.RAW	15:07	11.64	1		9.4	0.013	0.016	ng/L	
Hq2700-1	RN	SAM	1607586-04RE3	1.25	8/12/16 15:17	14291-1.RAW	15:17	60.08	1		57.8	0.104	0.130	ng/L	
Hq2700-1	RN	SAM	1607805-01	1,25	8/12/16 15:28	14292-1.RAW	15:28	378.52	1		376.3	0.701	0.876	ng/L	
Hq2700-1	RN		1607805-02	1.25	8/12/16 15:38	14293-1.RAW	15:38	78.65	1		76.4	0.139	0.173	ng/L	
Hq2700-1	RN		SEQ-CCV3	1	8/12/16 15:49	14294-1.RAW	15:49	343.43			341.2	0.515	0.515	ng/L	
Hg2700-1	RN		SEQ-CCB3	1	8/12/16 15:59	14295-1.RAW	15:59	3.55			1,3	0.002	0.002	ng/L	
Hg2700-1	RN		F608155-BLK1	1	8/12/16 16:10	14296-1.RAW	16:10	9.14		x	6.9	0.013	0.013	ng/L	
Hq2700-1	RN		F608155-BLK2	1	8/12/16 16:20	14297-1.RAW	16:20	12.92		x	10.7	0.020	0.020	ng/L	

		Sample					-	Uncorrected	Section .	No PB			7775		
Instrument	Analyst	Туре	LabNumber	Dilution	Analyzed	FileID	Run End	Response	Batch ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2700-1	RN	BLK	F608155-BLK3	1	8/12/16 16:31	14298-1.RAW	16:31	11.01		×	8.8	0.016	0.016	ng/L	
Hq2700-1	RN	SAM	F608155-BS1	10	8/12/16 16:41	14299-1.RAW	16:41	776.73		x	774.5	1.452	14.522	ng/L	
Hg2700-1	RN	SAM	F608155-BSD1	10	8/12/16 16:52	14300-1.RAW	16:52	779.46		x	777.2	1.457	14.574	ng/L	
Hg2700-1	RN	SAM	F608155-DUP1	1	8/12/16 17:02	14301-1.RAW	17:02	19.87		×	17.6	0.033	0.033	ng/L	
Hq2700-1	RN	SAM	F608155-MS1	10	8/12/16 17:13	14302-1.RAW	17:13	645.63		×	643.4	1.206	12.064	ng/L	
Hg2700-1	RN	SAM	F608155-MSD1	10	8/12/16 17:23	14303-1.RAW	17:23	677.95		x	675.7	1.267	12.670	ng/L	
Hq2700-1	RN	SAM	F608155-MS2	10	8/12/16 17:34	14304-1.RAW	17:34	665.80		x	663.6	1.244	12.442	ng/L	
Hq2700-1	RN	SAM	F608155-MSD2	10	8/12/16 17:44	14305-1.RAW	17:44	781.10		x	778.9	1.460	14.604	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV4	1	8/12/16 17:55	14306-1.RAW	17:55	455.29			453.1	0.684	0.684	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB4	1	8/12/16 18:06	14307-1.RAW	18:06	5.37			3.1	0.005	0.005	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV5	1	8/12/16 18:16	14308-1.RAW	18:16	413.96			411.7	0.621	0.621	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV6	1	8/12/16 18:27	14309-1.RAW	18:27	412.44			410.2	0.619	0.619	ng/L	
Hq2700-1	RN	SAM	1607782-15	1	8/12/16 18:37	14310-1.RAW	18:37	20.06		×	17.8	0.033	0.033	ng/L	
Hg2700-1	RN	SAM	1607782-16	1	8/12/16 18:48	14311-1.RAW	18:48	49.59		x	47.4	0.089	0.089	ng/L	
Hq2700-1	RN	SAM	1607782-17	1	8/12/16 18:58	14312-1.RAW	18:58	69.34		x	67.1	0.126	0.126	ng/L	
Hq2700-1	RN	SAM	1607782-18	1	8/12/16 19:09	14313-1.RAW	19:09	35.89		×	33.7	0.063	0.063	ng/L	
Hq2700-1	RN	SAM	1607782-19	1	8/12/16 19:19	14314-1.RAW	19:19	22.19		×	20.0	0.037	0.037	ng/L	
Hq2700-1	RN	SAM	1607782-20	1	8/12/16 19:30	14315-1.RAW	19:30	37.36		x	35.1	0.066	0.066	ng/L	
Hg2700-1	RN	SAM	1607782-21	1	8/12/16 19:40	14316-1.RAW	19:40	37.23		×	35.0	0.066	0.066	ng/L	
Hg2700-1	RN	SAM	1607783-01	1	8/12/16 19:51	14317-1.RAW	19:51	293.90		x	291.7	0.547	0.547	ng/L	
Hq2700-1	RN	SAM	1607783-02	1	8/12/16 20:01	14318-1.RAW	20:01	54.69		×	52.5	0.098	0.098	ng/L	
Hq2700-1	RN	SAM	1607783-03	1	8/12/16 20:12	14319-1.RAW	20:12	43.30		×	41.1	0.077	0.077	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV7	1	8/12/16 20:22	14320-1.RAW	20:22	293.87			291.6	0.440	0.440	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB5	1	8/12/16 20:33	14321-1.RAW	20:33	2.91			0.7	0.001	0.001	ng/L	
Hg2700-1	RN	SAM	1607783-04	1	8/12/16 20:43	14322-1.RAW	20:43	36.56		×	34.3	0.064	0.064	ng/L	
Hq2700-1	RN	SAM	1607783-05	1	8/12/16 20:54	14323-1.RAW	20:54	30.44		×	28.2	0.053	0.053	ng/L	
Hg2700-1	RN	SAM	1607783-06	1	8/12/16 21:04	14324-1.RAW	21:04	113.82		x	111.6	0.209	0.209	ng/L	
Hg2700-1	RN	SAM	1607783-07	1	8/12/16 21:15	14325-1.RAW	21:15	220.25		x	218.0	0.409	0.409	ng/L	
Hg2700-1	RN	SAM	1607783-08	1	8/12/16 21:25	14326-1.RAW	21:25	29.67		×	27.4	0.051	0.051	ng/L	
Hq2700-1	RN	SAM	1607783-09	1	8/12/16 21:36	14327-1.RAW	21:36	19.89		×	17.7	0.033	0.033	ng/L	
Hq2700-1	RN	SAM	1607783-10	1	8/12/16 21:46	14328-1.RAW	21:46	20.75		×	18.5	0.035	0.035	ng/L	
Hg2700-1	RN	SAM	1607783-11	1	8/12/16 21:57	14329-1.RAW	21:57	69.74		×	67.5	0.127	0.127	ng/L	
Hq2700-1	RN	SAM	1607783-12	1	8/12/16 22:07	14330-1.RAW	22:07	31.76		x	29.5	0.055	0.055	ng/L	
Hq2700-1	RN	SAM	1607783-13	1	8/12/16 22:18	14331-1.RAW	22:18	19.86		×	17.6	0.033	0.033	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV8	1	8/12/16 22:28	14332-1.RAW	22:28	319.82			317.6	0.479	0.479	ng/L	
Hg2700-1	RN		SEO-CCB6	1	8/12/16 22:39	14333-1.RAW	22:39	2.94			0.7	0.001	0.001	ng/L	

MethylMercury EPA1630	Works	h CalibFa d R:	662.8307126 0.995959998	Conc = (Area-2.230) OK,1 Warnings 0.991936317	8:01:19	78.12906574					
A			1-160812-1	/ Countdatte/oot/	Rec%	11.7871825 RawData	RunEnd	P PeakMeHg (Ra	I Control (atf)	Flags	RunCount
Sample/ID	Location	n Dilute	Blank	(ConcMeHg(ppt) 0.000167819	REC70	14250-1.RAW	Kunthu	0.111235469	cleandry	CT	T I
Clean	44		0	0.000167619		14251-1.RAW		0.111255409	psample10	OK	1
WS	A1		0	0.00226502		14252-1.RAW		2.230445076	psample10	OK	1
SEQ-IBL1	AZ	1	47 1 1 4 4 4 5	0.00336503	07.47			34.53191288	psample10	OK	1
SEQ-CAL1	A3	1	2.230445076	0.048732606	97.47	14253-1.RAW		142.0491004	psample10	OK	1
SEQ-CAL2	A4	1	2.230445076	0.210941727	105.47	14254-1.RAW		551.8445076	psample10 psample10	CT	1
SEQ-CAL3	A5	1	2.230445076	0.829192209	82.92	14255-1.RAW		1315.757812	psample10	CT	1
SEQ-CAL4	A6	1	2.230445076	1.981693579	99.08	14256-1.RAW			psample10 psample10	CT	1
SEQ-CAL5	A7	1	2.230445076	4,602401003	115.06	14257-1.RAW		3052.843182 333.6805161	psample10 psample10	CT	1
SEQ-ICV1	A8	1	2.230445076	0.500052373	100.13	14258-1.RAW			The state of the s	CT	1
SEQ-ICB1	A9	1	2.230445076	0.008448363	0.00	14259-1.RAW		7.830279356	psample10	OK	1
F608273-BLK1	A10	1.25	2.230445076	0.005629873		14260-1.RAW		5.215767045	psample10		1
F608273-BLK2	A11	1,25	2.230445076	0.007840569		14261-1.RAW		6.388020833	psample10	OK	
F608273-BLK3	A12	1.25	2.230445076	0.000139921		14262-1.RAW		2.304640152	psample10	OK	1
F608273-BS1	A13	1.25	2.230445076	0.641583942		14263-1.RAW		342.439678	psample10	CT	
F608273-BSD1	A14		2.230445076	0.880730393		14264-1.RAW		469.2505682	psample10	OK	1
F608273-DUP1	A15	1.25	2.230445076	0.141217653		14265-1.RAW		77,11316288	psample10	OK	1
F608273-MS1	A16		2.230445076	0.915404202	91.54	14266-1.RAW		487.6368608	psample10	CT	1
F608273-MS2	A17	1.25	2.230445076	0.318418183	15.92	14267-1.RAW		171.0763258	psample10	CT	1
F608273-MSD1	A18	1.25	2.230445076	0.649728372	32.49	14268-1.RAW		346.7583807	psample10	CT	1
F608273-MSD2	A19	1.25	2.230445076	0.255498351		14269-1.RAW		137.7121686	psample10	CT	1
SEQ-CCV1	A20	1	2,230445076	0.449343874	89.98	14270-1.RAW		300.0693655	psample10	CT	1
SEQ-CCB1	A21	1	2.230445076	0.005251309	0.00	14271-1.RAW		5.711174242	psample10	OK	1
1607542-01	B1	1.25	2.230445076	0.050874672		14272-1_RAW		29.20748106	psample10	CT	1
1607542-03	B2	1,25	2.230445076	0.063823915		14273-1.RAW		36.07400568	psample10	OK	1
1607542-04	B3	1.25	2.230445076	0.023723238		14274-1.RAW		14.81003788	psample10	CT	1
1607542-05	B4	1.25	2.230445076	0.032409851		14275-1.RAW		19.41624053	psample10	OK	1
1607542-06	B5	1.25	2.230445076	0.039377231		14276-1.RAW		23.11079545	psample10	OK	1
1607542-07	B6	1.25	2.230445076	0.026824356		14277-1.RAW		16.45445076	psample10	OK	1
1607586-12	B7	1.25	2.230445076	0.020093109		14278-1.RAW		12.8851089	psample10	OK	1
1607586-19	B8	1.25	2.230445076	0.036272631		14279-1.RAW		21.46453598	psample10	CT	1
1607586-20	B9	1.25	2.230445076	0.012238209		14280-1.RAW		8.719933712	psample10	OK	1
1607586-21	B10	1.25	2.230445076	0.000185281		14281-1.RAW		2.328693182	psample10	OK	1
SEQ-CCV2	B11	1	2.230445076	0.599452047	120,04	14282-1.RAW		399.5656723	psample10	CT	1
SEQ-CCB2	B12	1	2.230445076	0.001459749	0.00	14283-1.RAW		3.198011364	psample10	OK	1
1607772-01	B13	1.25	2.230445076	0.030812235		14284-1.RAW		18.56908144	psample10	CT	1
1607772-02	B14	1.25	2.230445076	0.020674892		14285-1.RAW		13.19360795	psample10	CT	1
1607772-03	B15	1.25	2.230445076	0.043379485		14286-1.RAW		25.23304924	psample10	CT	1
1607772-04	B16	1.25	2.230445076	0.016405074		14287-1.RAW		10.92947443	psample10	OK	1
1607772-05	B17	1.25	2.230445076	0.018865922		14288-1.RAW		12.234375	psample10	OK	1
1607772-06	B18		2.230445076	0.009753118		14289-1.RAW		7.40217803	psample10	CT	1
1607772-07	B19	1.25	2.230445076	0.017747359		14290-1.RAW		11.64124053	psample10	OK	1
1607586-04RE3		1.25	2.230445076	0.109089519		14291-1.RAW		60.07675189	psample10	CT	1
1607805-01	B21	1.25	2.230445076	0.709619412		14292-1.RAW		378.5164773	psample10	CT	1
1607805-02	C1		2.230445076	0.144096433		14293-1.RAW		78.63967803	psample10	CT	1
SEQ-CCV3	C2		2.230445076	0.514768048	103.08	14294-1.RAW		343,434517	psample10	CT	1
SEQ-CCB3	C3		2.230445076	0.001987716	0.00	14295-1.RAW		3.547964015	psample10	OK	1
F608155-BLK1	C4	1	2.230445076	0.010419684	1,000	14296-1.RAW		9.136931818	psample10	OK	1
F608155-BLK2	C5	1	2.230445076	0.016127705		14297-1.RAW		12.92038352	psample10	OK.	1
F608155-BLK3	C6		2.230445076	0.013224209		14298-1.RAW		10.99585701	psample10	OK	1
F608155-BS1	C7		2.230445076	11,68475029		14299-1.RAW		776.7315814	psample10	ОК	1

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F608155-BSD1	C8	10	2.230445076	11.72590756		14300-1.RAW		779.4596117	psample10	OK.	1
F608155-DUP1	C9	1	2.230445076	0.026610287		14301-1.RAW		19.86856061	psample10	OK.	1
F608155-MS1	C10	10	2.230445076	9.706876491	970.69	14302-1.RAW		645.6320312	psample10	CT	1
F608155-MSD1	C11	10	2.230445076	10.19439506		14303-1.RAW		677.9462595	psample10	OK	1
F608155-MS2	C12	10	2.230445076	10.01114606	500.56	14304-1.RAW		665.7999527	psample10	CT	1
F608155-MSD2	C13			11.75060864		14305-1.RAW		781.096875	psample10	OK	1
SEQ-CCV4	C14	1	2.230445076	0.683528394	136.88	14306-1.RAW		455.2940578	psample10	CT	1
SEQ-CCB4	C15	1	2.230445076	0.004740701	0.00	14307-1.RAW		5.372727273	psample10	OK	1
SEQ-CCV5	B1	1	2.230445076	0.62117155	124.39	14308-1.RAW		413.9620265	psample10	CT	1
SEQ-CCV6	B2	1	2.230445076	0.618876491	123.93	14309-1.RAW		412.4407907	psample10	CT	1
1607782-15	C16	1	2.230445076	0.026906094		14310-1.RAW		20.06463068	psample10	OK	1
1607782-16	C17	1	2.230445076	0.071454825		14311-1.RAW		49.59289773	psample10	OK	1
1607782-17	C18	1	2.230445076	0.101240128		14312-1.RAW	18:58:34	69.33551136	psample10	OK	1
1607782-18	C19	1	2.230445076	0.050783219		14313-1.RAW		35.89112216	psample10	OK	1
1607782-19	C20	1	2.230445076	0.030110898		14314-1.RAW		22.18887311	psample10	OK	1
1607782-20	C21	1	2.230445076	0.053000844		14315-1.RAW		37.3610322	psample10	OK	1.
1607782-21	A1	1	2.230445076	0.052807223		14316-1.RAW		37.23269413	psample10	OK	1
1607783-01	A2	1	2.230445076	0.440032556		14317-1.RAW		293.8975379	psample10	CT	1
1607783-02	A3	1	2.230445076	0.079150383		14318-1.RAW		54.69375	psample10	OK	1
1607783-03	A4	1	2.230445076	0.061957208		14319-1.RAW		43.29758523	psample10	OK	1
SEQ-CCV7	A5	1	2,230445076	0.43998791	88.11	14320-1.RAW		293.8679451	psample10	CT	1
SEQ-CCB5	A6	1	2.230445076	0.001017931	0.00	14321-1.RAW		2.905160985	psample10	CT	1.
1607783-04	A7	1	2.230445076	0.051792756		14322-1.RAW		36.56027462	psample10	OK	1
1607783-05	A8	1	2.230445076	0.042557301		14323-1.RAW		30.43873106	psample10	CT	1
1607783-06	A9	1	2.230445076	0.168355424		14324-1.RAW		113.8215909	psample10	CT	1
1607783-07	A10	1	2.230445076	0.328919926		14325-1.RAW		220.2486742	psample10	CT	1
1607783-08	A11	1	2.230445076	0.041399574		14326-1.RAW		29.67135417	psample10	OK:	1
1607783-09	A12	1	2.230445076	0.02663386		14327-1,RAW		19.88418561	psample10	OK.	1
1607783-10	A13	1	2.230445076	0.027940455		14328-1.RAW		20.75023674	psample10	OK	1
1607783-11	A14	1	2.230445076	0.101853673		14329-1.RAW		69.7421875	psample10	OK	1
1607783-12	A15	1	2.230445076	0.04455141		14330-1.RAW		31,76048769	psample10	OK.	1
1607783-13	A16	1	2.230445076	0.026604001		14331-1.RAW		19.86439394	psample10	OK	1
SEQ-CCV8	A17	1	2.230445076	0.479148536	95.95	14332-1.RAW		319.8248106	psample10	CT	1
SEQ-CCB6	A18	1	2.230445076	0.001071113	0.00	14333-1.RAW	22:39:18	2.940411932	psample10	OK	1

Sample/ID I. Clean SEQ-IBL1 SEQ-CAL1 SEQ-CAL2 SEQ-CAL2 SEQ-CAL3 SEQ-CAL4 SEQ-CAL4 SEQ-CAL4 SEQ-ICV1 SEQ-ICV1 SEQ-ICB1 F608273-BLK1 F608273-BLK2 F608273-BSD1 F608273-BSD1 F608273-BSD1 F608273-MS1 F608273-MS1 F608273-MS1 F608273-MS1 F608273-MS1 F608273-MS1 F608273-MS1 F608273-MS1 F608273-MS2	Descrip MH- Location Dilh A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15			(ConcMeHg(ppt) 0.000151529 0.00336503 0.048732606 0.210941727 0.829192209 1.981693579 4.602401003 0.500052373 0.008448363 0.005629873	97.47 105.47 82.92 99.08 115.06 100.13	11.7871825 RawData 14250-1.RAW 14251-1.RAW 14252-1.RAW 14253-1.RAW 14254-1.RAW 14256-1.RAW 14256-1.RAW 14257-1.RAW	RunEnd 8:06:50 8:17:21 8:27:52 8:38:23 8:48:53 8:59:24 9:09:55	P PeakMeHg (Ra 0.100438372 0 2.230445076 34.53191288 142.0491004 551.8445076 1315.757812	cleandry psample10 psample10 psample10 psample10 psample10	Flags CT OK OK OK OK OK	RunCount 1 1 1 1 1
Clean ws SEQ-IBL1 SEQ-CAL1 SEQ-CAL2 SEQ-CAL3 SEQ-CAL3 SEQ-CAL4 SEQ-CAL4 SEQ-CAL5 SEQ-ICN1 SEQ-ICN1 SEQ-ICN1 SEQ-ICN1 F608273-BLK2 F608273-BLK2 F608273-BSD1 F608273-BSD1 F608273-BSD1 F608273-MS1 F608273-MS1	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14	1 1 1 1 1 1 1 1.25 1.25	0 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	0.000151529 0.00336503 0.048732606 0.210941727 0.829192209 1.981693579 4.602401003 0.500052373 0.008448363	97,47 105,47 82,92 99,08 115,06 100,13	14250-1.RAW 14251-1.RAW 14252-1.RAW 14253-1.RAW 14254-1.RAW 14255-1.RAW 14256-1.RAW	8:06:50 8:17:21 8;27:52 8:38;23 8:48:53 8:59:24	0.100438372 0 2.230445076 34.53191288 142.0491004 551.8445076	cleandry psample10 psample10 psample10 psample10 psample10	OK OK OK CT	1 1 1
WS SEQ-IBL1 SEQ-CAL1 SEQ-CAL2 SEQ-CAL3 SEQ-CAL4 SEQ-CAL5 SEQ-ICV1 SEQ-ICV1 SEQ-ICV1 SEQ-ICV1 SEQ-ICV1 SEQ-ICV1 SEQ-ICV1 SEQ-ICV1 SEQ-ICV1 F608273-BLK1 F608273-BLK1 F608273-BLK1 F608273-BS1 F608273-BS1 F608273-BS1 F608273-BS1 F608273-BS1 F608273-BS1	A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14	1 1 1 1 1 1 1.25 1.25	0 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	0.00336503 0.048732606 0.210941727 0.829192209 1.981693579 4.602401003 0.500052373 0.008448363	105.47 82.92 99.08 115.06 100.13	14251-1.RAW 14252-1.RAW 14253-1.RAW 14254-1.RAW 14255-1.RAW 14256-1.RAW	8:17:21 8;27:52 8:38;23 8:48:53 8:59:24	2.230445076 34.53191288 142.0491004 551.8445076	psample10 psample10 psample10 psample10	OK OK CT	1 1 1
SEQ-IBL1 // SEQ-CAL1 // SEQ-CAL2 // SEQ-CAL3 // SEQ-CAL3 // SEQ-CAL4 // SEQ-CAL5 // SEQ-ICV1 // SEQ-ICV1 // SEQ-ICB1 // F608273-BLK1 // F608273-BLK2 // F608273-BS1 // F608273-BS1 // F608273-DUP1 // F608273-MS1 // F608273-MS2 // F608273-MS2 // F608273-MS1 // F608273-MS2 // F60	A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14	1 1 1 1 1 1 1.25 1.25	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	0.048732606 0.210941727 0.829192209 1.981693579 4.602401003 0.500052373 0.008448363	105.47 82.92 99.08 115.06 100.13	14252-1.RAW 14253-1.RAW 14254-1.RAW 14255-1.RAW 14256-1.RAW	8:38;23 8:48:53 8:59:24	34.53191288 142.0491004 551.8445076	psample10 psample10 psample10	OK OK CT	1
SEQ-CAL1 SEQ-CAL2 SEQ-CAL3 SEQ-CAL3 SEQ-CAL4 SEQ-CAL4 SEQ-CAL5 SEQ-ICV1 SEQ-ICB1 F608273-BLK1 F608273-BLK2 F608273-BS1 F608273-BS1 F608273-BS1 F608273-BS1 F608273-BS1	A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14	1 1 1 1 1 1 1.25 1.25	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	0.048732606 0.210941727 0.829192209 1.981693579 4.602401003 0.500052373 0.008448363	105.47 82.92 99.08 115.06 100.13	14253-1.RAW 14254-1.RAW 14255-1.RAW 14256-1.RAW	8:48:53 8:59:24	142.0491004 551.8445076	psample10 psample10	OK CT	1
SEQ-CAL2 SEQ-CAL3 SEQ-CAL4 SEQ-CAL5 SEQ-ICV1 SEQ-ICB1 F608273-BLK1 F608273-BLK2 F608273-BS1 F608273-BS01 F608273-BS01 F608273-BS01 F608273-BS01 F608273-MS1 F608273-MS1	A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14	1 1 1 1 1 1.25 1.25	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	0.210941727 0.829192209 1.981693579 4.602401003 0.500052373 0.008448363	105.47 82.92 99.08 115.06 100.13	14254-1.RAW 14255-1.RAW 14256-1.RAW	8:59:24	551.8445076	psample10	CT	
SEQ-CAL3 SEQ-CAL4 SEQ-CAL5 SEQ-ICV1 SEQ-ICV1 SEQ-ICV1 SEQ-ICB1 SEQ-3-BLK1 SEQ-3-BLK2 SEQ-3-BLK3 SEQ-3-BL	A5 A6 A7 A8 A9 A10 A11 A12 A13 A14	1 1 1 1 1.25 1.25	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	0.829192209 1.981693579 4.602401003 0.500052373 0.008448363	82.92 99.08 115.06 100.13	14255-1.RAW 14256-1.RAW			E decreased and a second		
SEQ-CAL4 SEQ-CAL5 SEQ-ICV1 SEQ-ICV1 F608273-BLK1 F608273-BLK2 F608273-BLK3 F608273-BS1 F608273-BS1 F608273-BS1 F608273-DUP1 F608273-MS1 F608273-MS1	A6 A7 A8 A9 A10 A11 A12 A13 A14	1 1 1 1.25 1.25	2.230445076 2.230445076 2.230445076 2.230445076 2.230445076	1,981693579 4.602401003 0.500052373 0.008448363	99.08 115.06 100.13	14256-1.RAW	9:09:55	1315 757812	annamele 10		1
SEQ-CAL5 SEQ-ICV1 SEQ-ICB1 F608273-BLK1 F608273-BLK2 F608273-BLK3 F608273-BS1 F608273-BS1 F608273-DUP1 F608273-MS1 F608273-MS1	A7 A8 A9 A10 A11 A12 A13 A14	1 1 1.25 1.25 1.25	2.230445076 2.230445076 2.230445076 2.230445076	4.602401003 0.500052373 0.008448363	115.06 100.13			44441111016	psample10	CT	1
SEQ-ICV1	A8 A9 A10 A11 A12 A13 A14	1 1.25 1.25 1.25	2.230445076 2.230445076 2.230445076	0.500052373 0.008448363	100.13		9:20:26	3052.843182	psample10	CT	1
SEQ-ICB1	A9 A10 A11 A12 A13 A14	1 1.25 1.25 1.25	2.230445076 2.230445076	0.008448363		14258-1.RAW	9:30:56	333.6805161	psample10	CT	1
F608273-BLK1 F608273-BLK2 F608273-BLK3 F608273-BS1 F608273-BSD1 F608273-DUP1 F608273-MS1 F608273-MS2	A10 A11 A12 A13 A14	1.25 1.25 1.25	2.230445076		0.00	14259-1.RAW	9:41:27	7.830279356	psample10	CT	1
F608273-BLK2 /F608273-BLK3 /F608273-BS1 /F608273-BSD1 /F608273-DUP1 /F608273-MS1 /F608273-MS2 /F608272-MS2 /F608272-MS2 /F608272-MS2 /F608272-MS2 /F608272-MS2 /F608272-MS2 /F608272-MS2 /F	A11 A12 A13 A14	1.25 1.25			0.00	14260-1.RAW	9:51:58	5.215767045	psample10	OK	1
F608273-BLK3 /F608273-BS1 /F608273-BSD1 /F608273-DUP1 /F608273-MS1 /F608273-MS2 /F608273-MS2 /F608273-MS2	A12 A13 A14	1.25	2.230443070	0.007840569		14261-1.RAW	10:02:29	6.388020833	psample10	OK	1
F608273-BS1 / F608273-BSD1 / F608273-DUP1 / F608273-MS1 / F608273-MS2 /	A13 A14		2.230445076	0.000139921		14262-1.RAW	10:12:59	2,304640152	psample10	OK	1
F608273-BSD1 / F608273-DUP1 / F608273-MS1 / F608273-MS2 /	A14	1.20	2.230445076	0.641583942		14263-1.RAW	10:23:30	342.439678	psample10	CT	1
F608273-DUP1 F608273-MS1 F608273-MS2 F608275-MS2 F6082		1.25	2.230445076			14264-1 RAW	10:34:01	469.2505682	psample10	OK	1
608273-MS1 608273-MS2	AIS	1.25	2.230445076			14265-1.RAW	10:44:32	77.11567235	psample10	OK	1
608273-MS2	445		2.230445076		91,54	14266-1.RAW	10:55:02	487.6368608	psample10	CT	1
The Table 1	A16	1.25	2.230445076	T. Service and the service of	15.92	14267-1.RAW	11:05:33	171.0763258	psample10	CT	1
-608273-M501	A17 A18	1.25	2.230445076		32.49	14268-1.RAW	11:16:04	346.7583807	psample10	CT	1
**************************************		1.25	2.230445076		22.12	14269-1.RAW	11:26:35	137.7121686	psample10	CT	1
The state of the s	A19	1.23	2.230445076		89.98	14270-1.RAW	11:37:05	300.0693655	psample10	CT	1
77.7	A20	1	2.230445076		0.00	14271-1.RAW	11:47:36	5.711174242	psample10	OK	1
	A21	1.25	2.230445076		0.00	14272-1.RAW	11:58:07	29.20748106	psample10	CT	1
	BI	1.25	2.230445076			14273-1.RAW	12:08:38	36.07194602	psample10	OK.	1
	B2 B3	1.25	2.230445076			14274-1.RAW	12:19:08	14.81003788	psample10	CT	1
*****	2.0	1.25	2.230445076			14275-1.RAW	12:29:39	19.41624053	psample10	OK	1
waterway at	B4	1.25	2.230445076			14276-1.RAW	12:40:10	22,9991714	psample10	OK	1
M M (00) (2) ((1) (2) (1)	B5	1.25	2.230445076			14277-1.RAW	12:50:40	16.45445076	psample10	OK	1
	B6 B7	1.25				14278-1.RAW	13:01:11	12.8851089	psample10	OK	1
2001000	B8	1.25				14279-1.RAW	13:11:42	21.44739583	psample10	CT	1
	B9	1.25				14280-1.RAW	13:22:13	8.719933712	psample10	OK.	1
	B10	1.25				14281-1.RAW	13:32:43	2.328693182	psample10	OK	1
100,000			2.230445076		120.04	14282-1.RAW	13:43:14	399.5656723	psample10	CT	1
	B11	1		S. PERSONAL PROPERTY AND ADDRESS OF THE PARTY	0.00	14283-1.RAW	13:53:45	3.198011364	psample10	OK	1
and area	B12 B13	1.25			0.00	14284-1.RAW	14:04:16	18.61096117	psample10	CT	1
		1.25				14285-1.RAW	14:14:46	13.19360795	psample10	CT	1
Promote State State	B14					14286-1.RAW	14:25:17	25.23304924	psample10	CT	1
*****	B15	1.25				14287-1.RAW	14:35:48	10.92947443	psample10	OK	1
	B16	1.25	2.230445076			14288-1.RAW	14:46:19	12.234375	psample10	OK	1
20011111111	B17					14289-1.RAW	14:56:49	7.40217803	psample10	CT	1
TENNING DO	B18	1.25				14290-1.RAW	15:07:20	11.64124053	psample10	CT	1
200111-0	B19	1.25				14291-1.RAW	15:17:51	60.07675189	psample10	CT	1
****	B20	1.25				14292-1.RAW	15:28:22	378.5164773	psample10	CT	1
- B C - C - C - C - C - C - C - C - C	B21		2,230445076			14293-1.RAW	15:38:52	78.64528883	psample10	CT	1
	C1 C2	1.25			103.08	14294-1.RAW	15:49:23	343.434517	psample10	CT	1
4-6						14295-1,RAW	15:59:54	3.547964015	psample10	OK	1.
	C3	1			3.00	14296-1.RAW	16:10:25	9.136931818	psample10	OK	1
	C4	1				14297-1-RAW	16:20:55	12.92038352	psample10	OK	1
Name and Charles	C5	1				14298-1.RAW	16:31:25	11.00511364	psample10	OK	1
CARROLL CO.	C6 C7		2.230445076			14299-1.RAW	16:41:55	776.7315814	psample10	OK	1

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F608155-BSD1	C8	10	2.230445076	11.72590756		14300-1.RAW	16:52:26	779.4596117	psample10	OK	1
F608155-DUP1	C9	1	2.230445076	0.026610287		14301-1.RAW	17:02:56	19.86856061	psample10	OK	1
F608155-MS1	C10	10	2.230445076	9.706876491	970.69	14302-1.RAW	17:13:27	645.6320312	psample10	CT	1
F608155-MSD1	C11	10	2.230445076	10.19439506		14303-1.RAW	17:23:58	677.9462595	psample10	OK	1
F608155-MS2	C12	10	2.230445076	10.01114606	500.56	14304-1.RAW	17:34:28	665.7999527	psample10	CT	1
F608155-MSD2	C13	10	2.230445076	11.75060864		14305-1.RAW	17:44:59	781.096875	psample10	OK	1
SEQ-CCV4	C14	1	2.230445076	0.683528394	136.88	14306-1.RAW	17:55:30	455.2940578	psample10	CT	1
SEQ-CCB4	C15	1	2.230445076	0.004740701	0.00	14307-1.RAW	18:06:00	5.372727273	psample10	OK	1
SEQ-CCV5	B1	1	2.230445076	0.62117155	124.39	14308-1.RAW	18:16:31	413.9620265	psample10	CT	1
SEQ-CCV6	B2	1	2.230445076	0.618876491	123.93	14309-1.RAW	18:27:02	412.4407907	psample10	CT	1
1607782-15	C16	1	2.230445076	0.026906094		14310-1.RAW	18:37:32	20.06463068	psample10	OK	1
1607782-16	C17	1	2.230445076	0.071454825		14311-1.RAW	18:48:03	49.59289773	psample10	OK	1
1607782-17	C18	1	2.230445076	0.101240128		14312-1.RAW	18:58:34	69.33551136	psample10	OK.	1
1607782-18	C19	1	2.230445076	0.050783219		14313-1.RAW	19:09:04	35.89112216	psample10	OK.	1
1607782-19	C20	1	2.230445076	0.030110898		14314-1.RAW	19:19:35	22.18887311	psample10	OK.	1
1607782-20	C21	1	2.230445076	0.053000844		14315-1.RAW	19:30:06	37.3610322	psample10	OK.	1
1607782-21	A1	1	2.230445076	0.052807223		14316-1.RAW	19:40:36	37.23269413	psample10	OK	1
1607783-01	A2	1	2.230445076	0.440032556		14317-1.RAW	19:51:07	293.8975379	psample10	CT	1
1607783-02	A3	1	2.230445076	0.079150383		14318-1.RAW	20:01:38	54.69375	psample10	OK	1
1607783-03	A4	1	2.230445076	0.061957208		14319-1.RAW	20:12:08	43.29758523	psample10	OK	1
SEQ-CCV7	A5	1	2.230445076	0.43998791	88.11	14320-1.RAW	20:22:39	293.8679451	psample10	CT	1
SEQ-CCB5	A6	1	2.230445076	0.001017931	0.00	14321-1.RAW	20:33:10	2.905160985	psample10	CT	1
1607783-04	A7	1	2.230445076	0.051792756		14322-1.RAW	20:43:40	36.56027462	psample10	OK	1
1607783-05	A8	1	2.230445076	0.042557301		14323-1.RAW	20:54:11	30.43873106	psample10	CT	1
1607783-06	A9	1	2.230445076	0.168355424		14324-1.RAW	21:04:42	113.8215909	psample10	CT	1
1607783-07	A10	1	2.230445076	0.328919926		14325-1.RAW	21:15:12	220.2486742	psample10	CT	1
1607783-08	A11	1	2.230445076	0.041399574		14326-1.RAW	21:25:43	29.67135417	psample10	OK.	1
1607783-09	A12	1	2.230445076	0.026638968		14327-1.RAW	21:36:14	19.88757102	psample10	OK.	1
1607783-10	A13	1	2.230445076	0.027940455		14328-1.RAW	21:46:45	20.75023674	psample10	OK	1
1607783-11	A14	1	2.230445076	0.101853673		14329-1.RAW	21:57:15	69.7421875	psample10	OK	1
1607783-12	A15	1	2.230445076	0.04455141		14330-1.RAW	22:07:46	31.76048769	psample10	OK	1
1607783-13	A16	1	2.230445076	0.026604001		14331-1.RAW	22:18:17	19.86439394	psample10	OK	1
SEQ-CCV8	A17	1	2.230445076	0.479148536	95.95	14332-1.RAW	22:28:47	319.8248106	psample10	CT	1
SEQ-CCB6	A18	1	2.230445076	0.001069149	0.00	14333-1.RAW	22:39:18	2.939109848	psample10	OK	1
and man				***************************************							

Failing Data Report - 6H12010

Sample ID A	Analysis	Result	MRL	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
GUIZOLO CCVA N	MHg-CVAFS-S-MeClExt	0.684	0.201		0.50049	ng/L	137	67.00	133.00			PASS-OVER	FAIL-CCV	DNR

Analyst Reviewed By

8/15/16 Date

Peer Reviewed By

Date

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ANALYSIS SEQUENCE

6H12010

nstrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/12/2016

ab Number	Analysis	Order	STD ID	ISTD ID	Comments
H12010-IBL1	QC	1			
H12010-CAL1	QC	2	1604163		
6H12010-CAL2	QC	3	1604164		
6H12010-CAL3	QC	4	1604165		
5H12010-CAL4	QC	5	1604166		
5H12010-CAL5	QC	6	1604167		
6H12010-ICV1	QC	7	1603001		
6H12010-ICB1	QC	8			
5H12010-CCV1	QC	9	1603001	F	
5H12010-CCB1	QC	10			
6H12010-CCV2	QC	11	1603001		
6H12010-CCB2	QC	12			
6H12010-CCV3	QC	13	1603001		
6H12010-CCB3	QC	14			
F608155-BLK1	QC	15			
F608155-BLK2	QC	16			
F608155-BLK3	QC	17			
F608155-BS1	QC	18			
F608155-BSD1	QC	19			
F608155-DUP1	QC	20			
F608155-MS1	QC	21			
F608155-MSD1	QC	22			
F608155-MS2	QC	23			
F608155-MSD2	QC	24			
6H12010-CCV4	QC	25	1603001		
6H12010-CCB4	QC	26			
6H12010-CCV5	QC	27	1603001		
6H12010-CCV6	QC	28	1603001		
1607782-15	MHg-CVAFS-S-MeClExt	29			
1607782-16	MHg-CVAFS-S-MeClExt	30			
1607782-17	MHg-CVAFS-S-MeClExt	31			
1607782-18	MHg-CVAFS-S-MeClExt	32			
1607782-19	MHg-CVAFS-S-MeClExt	33			
1607782-20	MHg-CVAFS-S-MeCIExt	34		9	
1607782-21	MHg-CVAFS-S-MeClExt	35			

Due Date: 8/24/2016

ANALYSIS SEQUENCE

6H12010

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/12/2016

_ab Number	Analysis	Order	STD ID	ISTD ID	Comments
1607783-01	MHg-CVAFS-S-MeClExt	36			
1607783-02	MHg-CVAFS-S-MeClExt	37			
1607783-03	MHg-CVAFS-S-MeClExt	38			
6H12010-CCV7	QC	39	1603001		
6H12010-CCB5	QC	40			
1607783-04	MHg-CVAFS-S-MeClExt	41		(m-1)	
1607783-05	MHg-CVAFS-S-MeClExt	42			
1607783-06	MHg-CVAFS-S-MeClExt	43			
1607783-07	MHg-CVAFS-S-MeClExt	44			
1607783-08	MHg-CVAFS-S-MeClExt	45			
1607783-09	MHg-CVAFS-S-MeClExt	46			
1607783-10	MHg-CVAFS-S-MeClExt	47			
1607783-11	MHg-CVAFS-S-MeClExt	48			
1607783-12	MHg-CVAFS-S-MeClExt	49			
1607783-13	MHg-CVAFS-S-MeClExt	50			
6H12010-CCV8	QC	51	1603001		
6H12010-CCB6	QC	52			

Samples Loaded By

Date

Data Processed By

Date

Due Date: 8/24/2016

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared	: 8/	12/	201	6
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Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608155-BLK1	Blank	0.5	250					
F608155-BLK2	Blank	0.5	250					
F608155-BLK3	Blank	0.5	250					
F608155-BS1	Blank Spike	0.5	250	1506872	25			
F608155-BSD1	Blank Spike Dup	0.5	250	1506872	25			
F608155-DUP1	Duplicate [1607782-15]	0.542	250					
F608155-MS1	Matrix Spike [1607782-16]	0.584	250	1506872	25			
F608155-MS2	Matrix Spike [1607782-15]	0.542	250	1506872	25			
F608155-MSD1	Matrix Spike Dup [1607782-16]	0.58	250	1506872	25			/ 5
F608155-MSD2	Matrix Spike Dup [1607782-15]	0.582	250	1506872	25			

Standard ID(s):	Description:	Expiration:	Reagent ID(s):	Description:	Expiration:	
1506872	MHg New Primary 100 ng/mL spike	03-Nov-16 00:00	1602382	Dichloromethane	05-May-19 00:00	
		1602604			Acetate Buffer	15-Nov-16 00:00
			1602944	Ethylating Agent (For Methyl Mercury Analysis)	30-Nov-16 00:00	
		1603399 Boiling Chips for AFS prep 1603749 Ethylating Agent (For Methyl Mer	Boiling Chips for AFS prep	01-Jun-17 00:00		
			Ethylating Agent (For Methyl Mercury Analysis)	09-Jan-17 00:00		
			1604262	Acid Bromide	02-Sep-16 00:00	

1604379

CuSO4

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e Date: 8/24/2016

16-Oct-16 00:00

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607782-15	WP2-4C (25-30 cm.)	0.585	250	150				
1607782-16	WP2-4C (5-10 cm.)	0.539	250		-	2		
1607782-17	WP2-1C (0-5 cm.)	0.535	250	100		20		
607782-18	WP2-1C (15-20 cm.)	0.532	250	4	-	4		
607782-19	WP2-1C (20-25 cm.)	0.537	250	7	-	-		
1607782-20	WP2-1C (5-10 cm.)	0.556	250	1	-			
1607782-21	WP2-1C (10-15 cm.)	0.574	250	1.15	100	*)		
1607783-01	WP2-1B (0-5 cm.)	0.542	250			+		
607783-02	WP2-1B (10-15 cm.)	0.556	250	1.4	100	791		
1607783-03	WP2-1B (15-20 cm.)	0.59	250	1.0				
1607783-04	WP2-1B (20-25 cm.)	0.522	250	-	1.0			
607783-05	WP2-1B (25-30 cm.)	0.533	250	-	7.	•		
1607783-06	WP2-1B (5-10 cm.)	0.543	250	(R)	187			
1607783-07	WP2-4B (0-5 cm.)	0.535	250	12.0	-	-		
607783-08	WP2-4B (10-15 cm.)	0.569	250	-	P	•		
607783-09	WP2-4B (15-20 cm.)	0.546	250	F	Э			
607783-10	WP2-4B (20-25 cm.)	0.589	250	1 9	-	3		
ည် 783-11	WP2-4B (25-30 cm.)	0.584	250					
783-11 06 55 783-12	WP2-4B (30-35 cm.)	0.564	250	141	- 2	4-		
0								

Prepared: 8/12/2016

F608155

250

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment	Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg	
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0.543

Prepared: 8/12/2016

WP2-4B (35-40 cm.)

1607783-13

Page 55 of 162 e Date: 8/24/2016

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 8/12/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608155-BLK1	Blank	0.5	250					
F608155-BLK2	Blank	0.5	250					
F608155-BLK3	Blank	0.5	250					
F608155-BS1	Blank Spike	0.5	250	1506872	25			
F608155-BSD1	Blank Spike Dup	0.5	250	1506872	25	1		
F608155-DUP1	Duplicate [1607782-15]	0.542	250					
F608155-MS1	Matrix Spike [1607782-16]	0.584	250	1506872	2.5			
F608155-MS2	Matrix Spike [1692782-15]	0.542	250	1506872	25			
F608155-MSD1	Matrix Spike Dup [1607782-16]	0.58	250	1506872	25			
F608155-MSD2	Matrix Spike Dup [1607782-15]	0.582	250	1506872	25			

Standard ID(s): 1506872

Description:

MHg New Primary 100 ng/mL spike

Expiration 03-Nov-16 00:00

Reagent ID(s):	Description:	Expiration:		
1600476	Acetate Buffer	26-Jul-16 00:00		
1602382	Dichloromethane	05-May-19 00:00		
1602604	Acetate Buffer	15-Nov-16 00:00		
1602944	Ethylating Agent (For Methyl Mercury Analysis)	30-Nov-16 00:00		
1603399	Boiling Chips for AFS prep	01-Jun-17 00:00		
1603749	Ethylating Agent (For Methyl Mercury Analysis)	09-Jan-17 00:00		
1604262	Acid Bromide	02-Sep-16 00:00		
1604379	CuSO4	16-Oct-16 00:00		

2H 8/15/12

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

ន le Date: 8/24/2016

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 8/12/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607782-15	WP2-4C (25-30 cm.)	0.585	250	4	T¥T	14		
1607782-16	WP2-4C (5-10 cm.)	0.539	250	-	-	(6)		
1607782-17	WP2-1C (0-5 cm.)	0.535	250	-	+	-		
607782-18	WP2-1C (15-20 cm.)	0.532	250	3	(-)	7		
1607782-19	WP2-1C (20-25 cm.)	0.537	250	-	-			
1607782-20	WP2-1C (5-10 cm.)	0.556	250		÷	-		
1607782-21	WP2-1C (10-15 cm.)	0.574	250	1)=)		
607783-01	WP2-1B (0-5 cm.)	0.542	250	+	/	1		
607783-02	WP2-1B (10-15 cm.)	0.556	250					
1607783-03	WP2-1B (15-20 cm.)	0.59	250	+	12	1	JH5115/16	
1607783-04	WP2-1B (20-25 cm.)	0.522	250	-		7		
1607783-05	WP2-1B (25-30 cm.)	0.533	250	-	-			
1607783-06	WP2-1B (5-10 cm.)	0.543	250	-	-	¥		
1607783-07	WP2-4B (0-5 cm.)	0.535	250		-			
1607783-08	WP2-4B (10-15 cm.)	0.569	250	-				
1607783-09	WP2-4B (15-20 cm.)	0.546	250		-			
1607783-10	WP2-4B (20-25 cm.)	0.589	250	-	175	•		
7783-11 00 05 7783-12	WP2-4B (25-30 cm.)	0.584	250	.91	3			
σ 7783-12	WP2-4B (30-35 cm.)	0.564	250	-	174	*		

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

1607783-13

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 8/12/2016

WP2-4B (35-40 cm.)

Page 58 of 162 le Date: 8/24/2016

Page 3 of 3

N 8/12/16 2700-1 6HZ+
6H12021
M 8/12/16

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 8/12/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608155-BLK1	Blank	0.5	250					12
F608155-BLK2	Blank	0.5	250			1		10
F608155-BLK3	Blank	0.5	250					10
F608155-BS1	Blank Spike	0.5	250	1506872	25			10 x
F608155-BSD1	Blank Spike Dup	0.5	250	1506872	25			102
F608155-DUP1	Duplicate [1607782-15]	0.542	250					1 a
F608155-MS1	Matrix Spike [1607782-16]	0.584	250	1506872	25			10 x
F608155-MS2	Matrix Spike [1607782-15]	0.542	250	1506872	25			100
F608155-MSD1	Matrix Spike Dup [1607782-16]	0.58	250	1506872	25			102
F608155-MSD2	Matrix Spike Dup [1607782-15]	0.582	250	1506872	25			10 %

Standard ID(s): 1506872

MHg New Primary 100 ng/mL spike

Expiration:

03-Nov-16 00:00

Reagent ID(s):

1602382

1603399 Boiling Chips for AFS prep

1604262

1604379

Description:

Dichloromethane

Acid Bromide CuSO4

01-Jun-17 00:00 02-Sep-16 00:00

05-May-19 00:00

Expiration:

16-Oct-16 00:00

Date: 8/24/2016

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

8 le Date: 8/24/2016

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 8/12/2016

ab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
607782-15	WP2-4C (25-30 cm.)	0.585	250	P-1	15	16		1 3
607782-16	WP2-4C (5-10 cm.)	0.539	250	-	•	-		10
607782-17	WP2-1C (0-5 cm.)	0.535	250	+	191	-		10
607782-18	WP2-1C (15-20 cm.)	0.532	250			14		1x
607782-19	WP2-1C (20-25 cm.)	0.537	250	1.5		-		100
607782-20	WP2-1C (5-10 cm.)	0.556	250	1	+	103		1x
607782-21	WP2-1C (10-15 cm.)	0.574	250	-		×		1 4
607783-01	WP2-1B (0-5 cm.)	0.542	250	15	-			14
607783-02	WP2-1B (10-15 cm.)	0.556	250	10.6	2	7		12
1607783-03	WP2-1B (15-20 cm.)	0.59	250	-	1-1-1	4		12
1607783-04	WP2-1B (20-25 cm.)	0.522	250					12
1607783-05	WP2-1B (25-30 cm.)	0.533	250			8		12
1607783-06	WP2-1B (5-10 cm.)	0.543	250	-	-	(*)		1 «
1607783-07	WP2-4B (0-5 cm.)	0.535	250		- ×	•		14
1607783-08	WP2-4B (10-15 cm.)	0.569	250		* 1			12
1607783-09	WP2-4B (15-20 cm.)	0.546	250	-	1			1×
1607783-10	WP2-4B (20-25 cm.)	0.589	250					1×
7783-11	WP2-4B (25-30 cm.)	0.584	250	-		-		14
Φ 07783-12	WP2-4B (30-35 cm.)	0.564	250	14.	1.2	[P#]		14

F608155

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment	Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

WP2-4B (35-40 cm.) 1607783-13

Page 61 of 162 e Date: 8/24/2016

Prepared: 8/12/2016

Technician: Duyler Batch#: F608155 Date: 8/5/16	
EFGS-045 Sediments - Methyl Mercury - KBr/CH₂Cl₂: Heat Block 45°C (nitrogen purge for 30 minutes). Vial Type: □ Glass ☑ ()	Teflon
Balance#: 10:05 % Calibrated? Yes No 1st Time in: 10:05 Actual Temp. (raw): 49.5 49.9 °C w/ CF: 50.2 50.6 °C 1st Time out: 10:35 Actual Temp. (raw): 49.3 50.1 °C w/ CF: 50.0 50.4 °C 2nd Time out: 10:40 Actual Temp. (raw): 49.6 50.0 °C w/ CF: 50.2 50.6 °C 2nd Time out: 10:40 Actual Temp. (raw): 49.6 50.0 °C w/ CF: 50.2 50.6 °C 3nd Time in: 10:40 Actual Temp. (raw): 49.6 50.0 °C w/ CF: 50.2 50.6 °C Actual Temp. (raw):)
Spike Witness: N 8/12/16 (initial and date)	
1st Purge time Start: 9:05 1st Purge Time End: $10 - 50$ 2nd Purge time Start: $1/605$ 2nd Purge Time End Pipette SN#: $1/605$ Calibration Date: $1/605$ Calibration Date: $1/605$ CuSO ₄ LIMS ID: $1/605$ Dispenser #: $1/259/647$ Calibrated? Yes $1/605$ No Other Acid LIMS ID: $1/605$ Boiling Chip lot # $1/603399$ Centrifuge Tube: $1/605$ 2nd Purge Time End Pipette SN#: $1/605$ 2nd Purge Time End Pipette	<u> :20</u>
Sample Sample	

Vial #	Sample ID Number	Sample Size ML 🖂g	Vial #	Sample ID Number	Sample Size mLg	Comments
1	F608155-BLK1	0.499	23	1607783-06	1.543	weigh all sample
2	F608155-BLK2	0.508	24	1607783-07	0535	on 8/5/16 Add Add Acad
3	F608155-BLK3	0-498	25	1607783-08	0-569	Add Add Acras
4	F608155-BS1	0530	26	1607783-09	0-546	on 8/12/16 purge samples
5	F608155-BSD1	0.537	27	1607783-10	0.589	on stille
6	1607782-15	0-585	28	1607783-11	0.584	Thermometer
7	F608155-DUP1(1607782-15)	0.542	29	1607783-12	0.564	1404/10 15 unit 10
8	F608155-MS1(1607782-15)	17.584	30	1607783-13	0547	1404/8012
9	F608155-MSD1(1607782-15)	0.580	31		7	stained sta
10	1607782-16	0-539	32			stainies 1
11	F608155-MS2(1607782-16)	0.542	33			4: 7 ime in 11:5
12	F608155-MSD2(1607782-16)	0.582	34	/		Actual Temp
13	1607782-17	0535	35		8-12-16	47.71 50.7
14	1607782-18	0.532	36		04	49.7/ 80.7 450.3/ 50.7
15	1607782-19	0.537	37			Time our 16.
16	1607782-20	0.556	38			Actual Tempo
17	1607782-21	0.574	39			49.7/ 50.1
18	1607783-01	0-542	40			50.2/ 50.6
19	1607783-02	0.556	41			8/12/16
20	1607783-03	0:190	42			94
21	1607783-04	0.522	43			
22	1607783-05	0-537	44			

Eurofins Frontier Global Sciences / Mercury Sample Digestions (LOG-HG-013.13) / Effective 08/03/16 QA2016-124

Verified By: York Page 4 of 14

Failing Data Report - 6H12011

Failing Data	Keport officer										Season .		0 0.1	Failure	Qualifier
Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	randic	
		0.968	0.050	0.704		1.0010	ng/L	96.7	70.00	130.00	31.6	25.00	PASS-OVER	FAIL-BSD (RPD)	OR-07
F608273-BSD1	MHg-CVAFS-W-Dist	0.968	0.030	0.704		41115					98.7	35.00	PASS-OVER	FAIL-DUP	QR-OY
F608273-DUP1	MHg-CVAFS-W-Dist	0.151	0.050	0.051	0.051		ng/L				2.0.7	9414.5		EAR MC	
Dali Andrea in Pere	MHg-CVAFS-W-Dist	0.347	0.050		0.029	1.0010	ng/L	31.7	65.00	130.00			PASS-OVER	FAIL-MS	G/4-07
608273-MS2		-	0.050	0.247	0.029	1.0010	ng/L	24.8	65.00	130.00	22.3	35.00	PASS-OVER	FAIL-MSD (Rec.)	QM-07
F608273-MSD2	MHg-CVAFS-W-Dist	0.277	0.050	0.347	0.029	1.0010	8/ 5			400.00			PASS-OVER	FAIL-CCV	
6H12011-CCV4	MHg-CVAFS-W-Dist	0.684	0.045			0.50049	ng/L	137	67.00	133.00			1/A33-0 VER	2107 11	DNR
71112011-001															

Analyst Reviewed By

Date

Peer Reviewed By

Date

ANALYSIS SEQUENCE

6H12011

nstrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/12/2016

ab Number	Analysis	Order	STD ID	ISTD ID	Comments
H12011-IBL1	QC	1			
H12011-CAL1	QC	2	1604163		
H12011-CAL2	QC	3	1604164		
H12011-CAL3	QC	4	1604165		
H12011-CAL4	QC	5	1604166	1 1	
H12011-CAL5	QC	6	1604167		
H12011-ICV1	QC	7	1603001		
H12011-ICB1	QC	8			
608273-BLK1	QC	9			
608273-BLK2	QC	10			
608273-BLK3	QC	11			
608273-BS1	QC	12			
608273-BSD1	QC	13			
608273-DUP1	QC	14			
F608273-MS1	QC	15			
F608273-MS2	QC	16			
F608273-MSD1	QC	17			
F608273-MSD2	QC	18			
5H12011-CCV1	QC	19	160300		
5H12011-CCB1	QC	20			
1607542-01	MHg-CVAFS-W-Dist	21			Scan all data for level IV report
1607542-03	MHg-CVAFS-W-Dist	22			Scan all data for level IV report
1607542-04	MHg-CVAFS-W-Dist	23			Scan all data for level IV report
1607542-05	MHg-CVAFS-W-Dist	24			Scan all data for level IV report
1607542-06	MHg-CVAFS-W-Dist	25			Scan all data for level IV report
1607542-07	MHg-CVAFS-W-Dist	26			Scan all data for level IV report
1607586-12	MHg-CVAFS-W-Dist	27			Scan all data - Level IV
1607586-19	MHg-CVAFS-W-Dist	28			Scan all data - Level IV
1607586-20	MHg-CVAFS-W-Dist	29			Scan all data - Level IV
1607586-21	MHg-CVAFS-W-Dist	30			Scan all data - Level IV
6H12011-CCV2	QC	31	160300	1	
6H12011-CCB2	QC	32			
1607772-01	MHg-CVAFS-W-Dist	33			
1607772-02	MHg-CVAFS-W-Dist	34			
1607772-03	MHg-CVAFS-W-Dist	35			

Due Date: 8/11/2016

ANALYSIS SEQUENCE

6H12011

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/12/2016

ab Number	Analysis	Order	STD ID	ISTD ID	Comments
607772-04	MHg-CVAFS-W-Dist	36			
607772-05	MHg-CVAFS-W-Dist	37			
1607772-06	MHg-CVAFS-W-Dist	38			
1607772-07	MHg-CVAFS-W-Dist	39			
1607586-04RE3	MHg-CVAFS-W-Dist	40			From F608251 by DMH on 11-Aug-16
1607805-01	MHg-CVAFS-W-Dist	41			Scan all data - Level IV
1607805-02	MHg-CVAFS-W-Dist	42			Scan all data - Level IV
6H12011-CCV3	QC	43	1603001		
6H12011-CCB3	QC	44			
6H12011-CCV4	QC	45	160300	1	
6H12011-CCB4	QC	46			
6H12011-CCV5	QC	47	160300	1	
6H12011-CCV6	QC	48	160300	1	
6H12011-CCV7	QC	49	160300	T.	
6H12011-CCB5	QC	50			
6H12011-CCV8	QC	51	160300	01	
6H12011-CCB6	QC	52			

Samples Laded By

Date

Data Processed By

12/15/14

Due Date: 8/11/2016

F608273

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

viatrix. water		Initial	Final		μl	N. N. S. Z.	μl	Extraction Comments
Lab Number	Sample ID and Source Sample	(mL)	(mL)	Spikel ID	Spikel	Spike2 ID	Spike2	Extraction Continents
F608273-BLK1	Blank	45	40					
F608273-BLK2	Blank	45	40					
F608273-BLK3	Blank	45	40					
F608273-BS1	Blank Spike	45	40	1603908	45			
F608273-BSD1	Blank Spike dup	45	40	1603908	45			
F608273-DUP1	Duplicate [1607542-01]	45	40					
F608273-MS1	Matrix Spike [1607586-12]	45	40	1603908	45			
F608273-MS2	Matrix Spike [1607772-01]	45	40	1603908	45			
F608273-MSD1	Matrix Spike Dup [1607586-12]	45	40	1603908	45			
F608273-MSD2	Matrix Spike Dup [1607772-01]	45	40	1603908	45			

Standard ID(s): 1603908

Description:

MHg New Primary 1.0 ng/mL CAL

Expiration:

19-Oct-16 00:00

Reagent ID(s): 1602604

1602944

Description:

Acetate Buffer Ethylating Agent (For Methyl Mercury Analysis)

APDC 1604432

0.5% Distillation Dilute (Made Daily) 1604511 1604518

2.5% Ascorbic Acid

Expiration: 15-Nov-16 00:00

30-Nov-16 00:00

17-Aug-16 00:00 07-Feb-17 00:00

19-Aug-16 00:00

Page 66 of 162

e Date: 8/11/2016

F608273

Eurofins Frontier Global Sciences, Inc.

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water Matrix: Water

ie Date: 8/11/2016

Prepared: 8/11/2016

	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
ab Number	OL-2434-01	45	40		-	1-5	Scan all data for level IV report	
607542-01	OD-2454 VI		40	-		-	Scan all data for level IV report	
607542-03	OL-2434-02	45	40	27	12-11			
607542-04	OL-2434-03	45	40		18		Scan all data for level IV report	
607542-05	OL-2434-04	45	40	1.14	*		Scan all data for level IV report	
1607542-06	OL-2434-05	45	40			-	Scan all data for level IV report	
1607542-07	OL-2434-06	45	40	7-1	1.0		Scan all data for level IV report	
1607586-04RE3	1524 WQ1b-c_071816_SW_10 Dissolved	45	40			-	From F608251 by DMH on 11-Aug-16	From F608251 by DMH on 11-Aug-16
1607586-12	1528 WQ-ECH_071816_SW_10 Dissolved	45	40	QC	-		MS/MSD Scan all data - Level IV	
	1532 WQ-FPT_071816_SW_10	45	40	-	1 14		Scan all data - Level IV	
1607586-19			40	-	-	-	Scan all data - Level IV	
1607586-20	1532 WQ-FPT_071816_SW_10 Dissolved	45	40	-	-			
1607586-21	1533 EB_071916_SW_QC Dissolved	45	40		-	1.7	Scan all data - Level IV	
1607772-01	WP2-1E (20 m.)	45	40	7.	-	-		
1607772-02	WP2-1E (40 m.)	45	40	-	1	-		
1607772-03	WP2-1E (Bottom)	45	40		-	*		
1607772-04	WP2-1E (Surface)	45	40	T		-		
1607772-05	WP2-2E (20 tn.)	45	40	118	T	1		
1607772-06	WP2-2E (40 m.)	45	40			1		
D 07772-07 Q	WP2-2E (Bottom)	45	40			J.		
Φ 0 0 0 1)7805-01	ADD-02_072216_SW_10	45	40	-			Scan all data - Level IV	

F608273

Eurofins Frontier Global Sciences, Inc.

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water Matrix: Water

Prepared: 8/11/2016

Matrix: Water		1.6	40	T .		Scan all data - Level IV	
1607805-02	ADD-02_072216_SW_10 Dissolved	43	40	1	-	2000	

F608273

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

ab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
608273-BLK1	Blank	45	40					
608273-BLK1	Blank	45	40					
608273-BLK2 608273-BLK3	Blank	45	40					
-608273-BERS	Blank Spike	45	40	1603908	45			
F608273-BSD1	Blank Spike dup	45	40	1603908	45			
608273-DJD1	Duplicate [1607542-04]	45	40					
F608273-MS1	Matrix Spike [1607586-12]	45	40	1603908	45			
F608273-MS2	Matrix Spike [1607772-01]	45	40	1603908	45			
F608273-MSD1	Matrix Spike Dup [1607586-12]	45	40	1603908	45			
F608273-MSD2	Matrix Spike Dup [1607772-01]	45	40	1603908	45			

Standard ID(s): 1603908

Description:

MHg New Primary 1.0 ng/mL CAL

Expiration:

19-Oct-16 00:00

Reagent ID(s):

Description: APDC

1604432 1604511

0.5% Distillation Dilute (Made Daily)

Expiration:

17-Aug-16 00:00

07-Feb-17 00:00

1602604

A8/15/16

Page 69 of 162 rue Date: 8/11/2016

F608273

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
ab Number 507542-01	OL-2434-01	45	40	12		-	Scan all data for level IV report	
	OL-2434-02	45	40	3-1	7.	-	Scan all data for level IV report	
607542-03		45	40		-	-	Scan all data for level IV report	
607542-04	OL-2434-03	43					Scan all data for level IV report	
607542-05	OL-2434-04	45	40	18	-	118		
1607542-06	OL-2434-05	45	40	-	1	2)	Scan all data for level IV report	
200	OL-2434-06	45	40	13	-	-	Scan all data for level IV report	
1607542-07		45	40		-	-	From F608251 by DMH on 11-Aug-16.	From F608251 by DMH on 11-Aug-16
1607586-04RE3	1524 WQ1b-c_071816_SW_10 Dissolved					-	MS/MSD Scan all data - Level IV	
1607586-12	1528 WQ-ECH_071816_SW_10 Dissolved	45	40	QC	-			
1607586-19	1532 WQ-FPT_071816_SW_10	45	40			-	Scan all data - Level IV	
1607586-20	1532 WQ-FPT_071816_SW_10 Dissolved	45	40	3	-		Scan all data - Level IV	
	1533 EB_071916_SW_QC Dissolved	45	40	121	14	-	Scan all data - Level IV	
1607586-21		45	40	-	1	-		
1607772-01	WP2-1E (20 m.)	43					LL.	
1607772-02	WP2-1E (40 m.)	45	40	*		-	HC H	
1607772-03	WP2-1E (Bottom)	45	40		9	+	8/5/10	
1607772-04	WP2-1E (Surface)	45	40	16		-	011	
1607772-05	WP2-2E (20 tn.)	45	40			-		
20.00	WP2-2E (40 m.)	45	40		-	-		
1607772-06	WPZ-ZE (40 m.)			-	-			
P 07772-07	WP2-2E (Bottom)	45	40	_		*	100	
б	ADD-02_072216_SW_10	45	40		18	-	Scan all data - Level IV	
of						1		Pag



F608273

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

1607805-02

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

ADD-02_072216_SW_10 Dissolved

3115/18 AC

Scan all data - Level IV

lu 8/12/16 27001 6412010

F608273

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spikel ID	μl Spikel	Spike2 ID	μl Spike2	Extraction Comments
F608273-BLK1	Blank	45	40					1.252
F608273-BLK2	Blank	45	40					1,252
F608273-BLK3	Blank	45	40					1.282
F608273-BS1	Blank Spike	45	40	1603908	45			1.254
F608273-BSD1	Blank Spike dup	45	40	1603908	45			1.250
F608273-DUP1	Duplicate [1607542-01]	45	40					1,25×
F608273-MS1	Matrix Spike [1607586-12]	45	40	1603908	45			1,25*
F608273-MS2	Matrix Spike [1607772-01]	45	40	1603908	45			1.254
F608273-MSD1	Matrix Spike Dup [1607586-12]	45	40	1603908	45			1,254
F608273-MSD2	Matrix Spike Dup [1607772-01]	45	40	1603908	45			1.252

Standard ID(s): 1603908

Description:

MHg New Primary 1.0 ng/mL CAL

Expiration:

19-Oct-16 00:00

Reagent ID(s):

1604511

1604432

Description: APDC

0.5% Distillation Dilute (Made Daily)

Expiration:

17-Aug-16 00:00

07-Feb-17 00:00

1604518 1602604 1602944

Page 72 of 182 le Date: 8/11/2016

F608273

Eurofins Frontier Global Sciences, Inc.

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/11/2016

latrix: Water	o I D	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
ab Number	Sample ID OL-2434-01	45	40			115	Scan all data for level IV report	1.254
607542-01		45	40	- 1	-	1.0	Scan all data for level IV report	1.25x
607542-03	OL-2434-02	45	2/4				Scan all data for level IV report	
607542-04	OL-2434-03	45	40	19	**	•		1,25k
60/342-04	OL-2434-04	45	40	-		-	Scan all data for level IV report	1.25x
607542-05		45	40	-	-		Scan all data for level IV report	1.25x
1607542-06	OL-2434-05	43		_	-	6.5	Scan all data for level IV report	1,25,
1607542-07	OL-2434-06	45	40	-	-			From F608251 by DMH on 11-Aug-16 / 2
	1524 WQ1b-c_071816_SW_10 Dissolved	45	40		-	-	From F608251 by DMH on 11-Aug-16	7(3
1607586-04RE3		45	40	QC	F	1.2	MS/MSD Scan all data - Level IV	1.25+
1607586-12	1528 WQ-ECH_071816_SW_10 Dissolved		40	-	-		Scan all data - Level IV	1.254
1607586-19	1532 WQ-FPT_071816_SW_10	45	40					1,254
	1532 WQ-FPT_071816_SW_10 Dissolved	45	40			7	Scan all data - Level IV	
1607586-20	1533 EB_071916_SW_QC Dissolved	45	40	1+0	141	F	Scan all data - Level IV	1,254
1607586-21		45	40	-	-	-		1,254
1607772-01	WP2-1E (20 m.)			_	-	-		1,25×
1607772-02	WP2-1E (40 m.)	45	40	-	1			
	WP2-1E (Bottom)	45	40					1,25%
1607772-03		45	40	-	1	- 8		1.25x
1607772-04	WP2-1E (Surface)			-	+-	-		1.250
1607772-05	WP2-2E (20 tn.)	45	40	-		-		
	WP2-2E (40 m.)	45	40	-				1.25%
D 07772-06	WP2-2E (Bottom)	45	40		- 1	7		1.250
Page 07772-07		46	40	-	-	+-	Scan all data - Level IV	1.25x
73 07805-01	ADD-02_072216_SW_10	45	40	_	_	-		
의				_				Page 2 o

F608273

Eurofins Frontier Global Sciences, Inc.

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water Matrix: Water

Prepared: 8/11/2016

Wattis. Water			_	_	T	1 data Lavel IV	
1607805-02 ADD-02_072216_SW_10 Dissolved	45	40				Scan all data - Level IV	1.252

Methyl Mercury Distillations (EPA 1630)

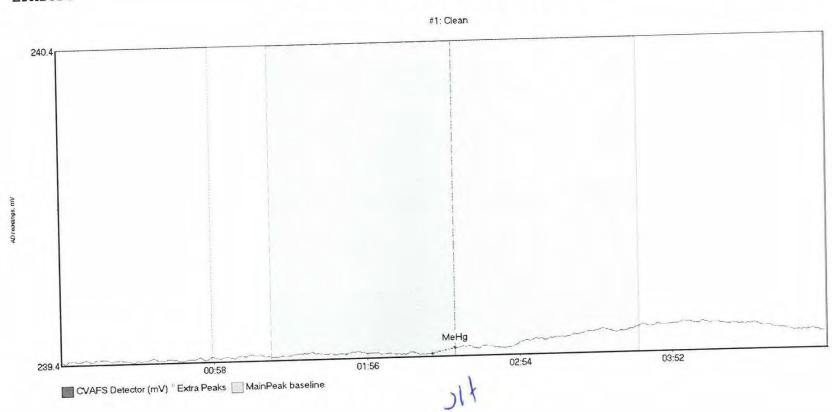
	Date: 8/11//b	Ratch #: F608	273 Sample	Matrix: Water
Name: Duylow	Date: Of III		11-7005	
Name: Duyen WO#: 1607542	1607586,	1607+tz, 1	60 1803	

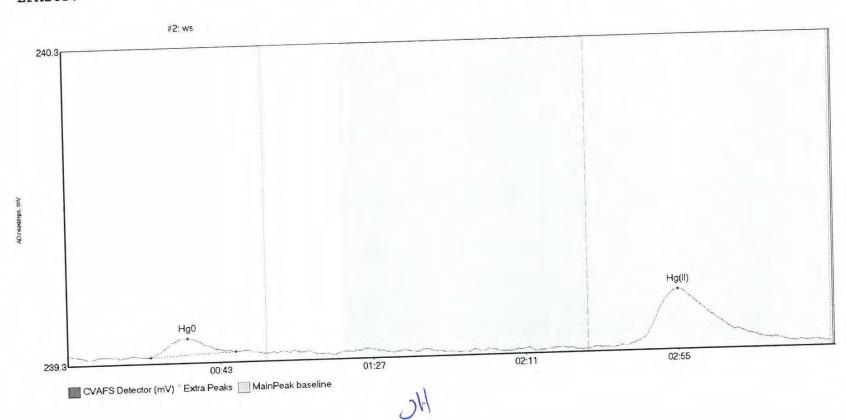
The pH of the preserved sample must be documented before an aliquot is removed for preparation.

Digest #	Sample ID Number	Preserved pH	Sample Size (mL)	Final pH (≥3)	
BLKI	FLOX 273 Blank	1.0	45	3.0	Spike ID: 1603908
Blkz	F608273 Blank2	1.0	45	3.0	Spike Amount: 45 µL
Blk3	= 60fd73 Blank3	1.0	45	3.0	Spike Witness: 1-8/11/16
BS	=608273 BS	1.0	45	3.0	
BSD	=608273 BSO	1.0	45	3.0	Balance #:
pupl	F608273 Dupl	1-0	45	30	
MSI	F608277 MS1	1:0		3.0	Pipette #: W2448
Msol	+10f277 MID	1.0	45	3.0	Cal. Date: 8/8/66
MS2	F608273 432 MANS	14 /00	45	4.0	Pipette #: <u> </u>
HSOZ	F608273 MOZ	1-2	45	400	Cal. Date: 8/9/16
1000	1607542-01B	1.0	45	3.0	cui. Bute.
7	1607542 -03 13	100	45	3.0	Pipette #: <u>CJ/7687</u>
3	1607542 -04B	1.0	45	3.0	Cal. Date: 8/9/66
4	1607542 -05B	1.0	45	3.0	APDC ID: 160 4 432
5	1607542 -06 3	100	45	3.0	HCI ID: 1604511
6	1607542 -078	100	45	7.0	1
7	1607586-12 13	1-0	45	3.0	Temperature: No set range
8	1607586 -19B	1.0	45	3.0	the temp. may be changed
an	1607586-201	10	-	3.0	keep flow rate of ≥10 mL p hour. Temperature is recorde
10	1607586 -213	1-0	45	400	for informational purposes only
()	1607772-01 A		45	4.0	17/0
12	1607772-02 A	1-0	45	State 4.0	
13	1607772 -031	1 1-0	45	4.0	
14	1607772 -041	4 1-0	45	3.0	Unit 3:/20.9
15	1607772 -05A	1-0	45	3.0	Unit 4:
16	1607772 -061	Y 1	45	3.0	Unit 5:
17	1607772 -07	A 1-0	45	3.0	Unit 6:
18	1607586-0412305	sala ja	45	3.0	
19	1607805-01	1-0	45	400	Comments:
26	1 1 10/10/100	Ref	8-11-16	- 1	- 1 cource: 160754
20	1607805 02	100	45	4.0	MS1. HSV Some: 1607586-12
-			+		1607586-12
					12/10/ 15/00
					1607772-01 1607772-01
			8-11-16	por	18718 6-0 4 RE3
					8-11-160H -02A
					- 5717600 -026

EFGS / Methyl Mercury Distillations / LOG-PR-029.03 / Effective: Aug. 4, 2014 / QA2016-036

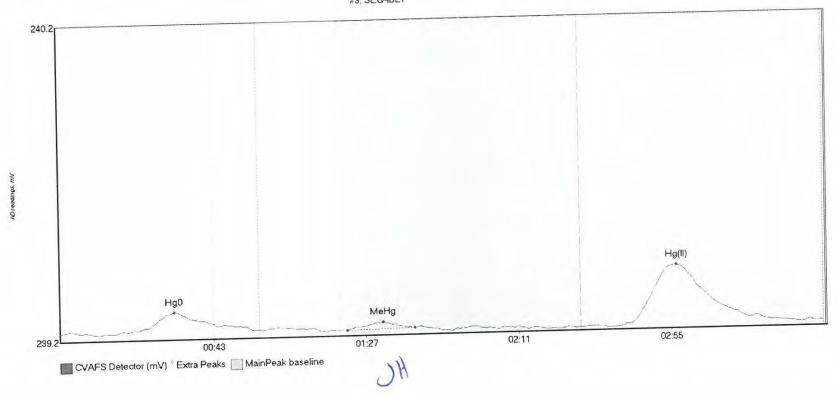
Verified A S/11/16 Page 15 of 30





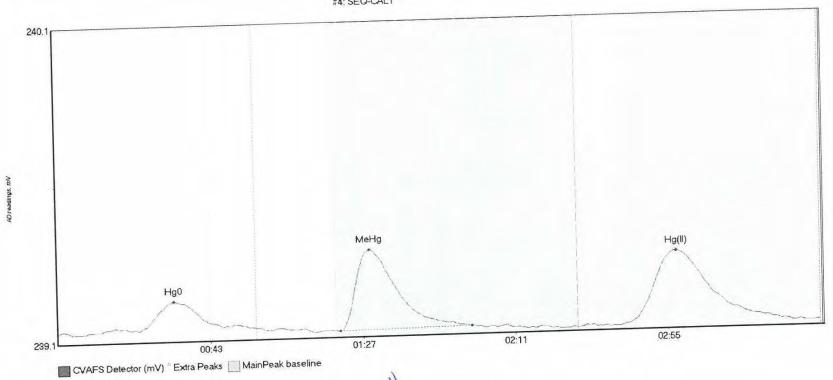
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Name SEQ-IBL1 Hg0 SEQ-IBL1 MeHg SEO-IBL1 Hg(II)	Area 8.541 2.230 34.744	Start Time 22.2 82.6 161.9	EndTime 55.4 102.0 212.5	StartValue 239.25 239.23 239.23	EndValue 239.24 239.24 239.23	Peak Max 32.7 92.9 177.6	PeakHeight 0.056 0.024 0.192	Flags OK OK OK	Baseline 239.2413 239.2413 239.2413	BlDev 0.00 0.00 0.00	BlShift -0.01 -0.01 -0.01	Comment	016
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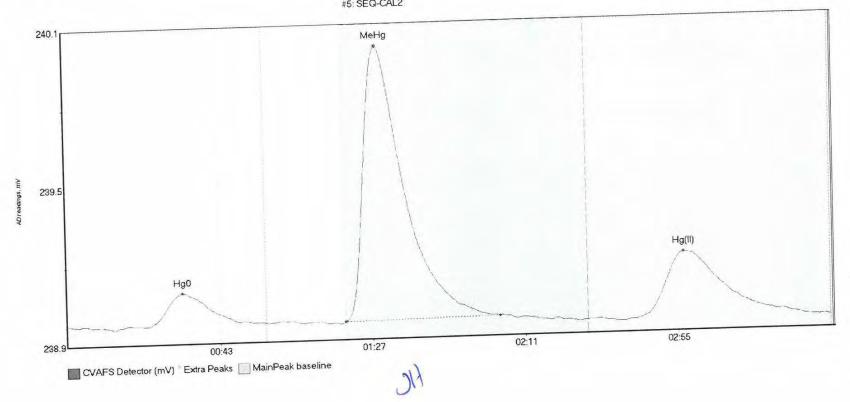
#4: SEQ-CAL1





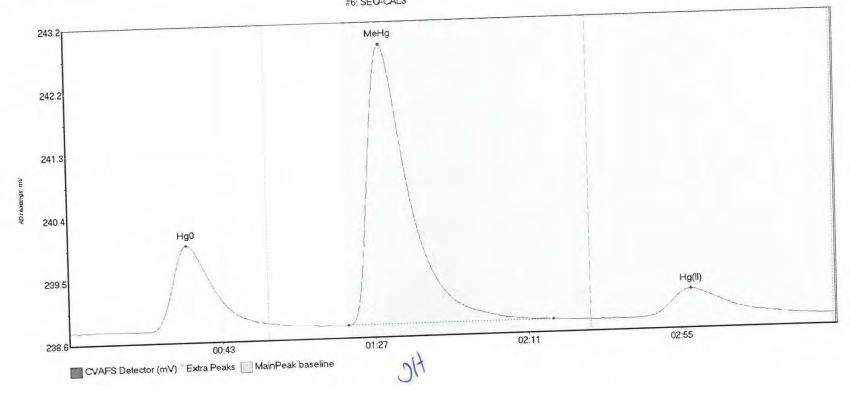
Name SEQ-CAL1 Hg0 SEQ-CAL1 MeHg SEQ-CAL1 Hg(II	11.820 34.532	Start Time 23.6 81.5 162.3	EndTime 55.5 119.4 216.1	StartValue 239.12 239.10 239.10	EndValue 239.12 239.11 239.10	Peak Max 33.6 90.0 178.4	PeakHeight 0.090 0.256 0.234	Flags OK OK OK	Baseline 239.1198 239.1198 239.1198	B1Dev 0.00 0.00 0.00	BlShift -0.02 -0.02 -0.02	Comment	016
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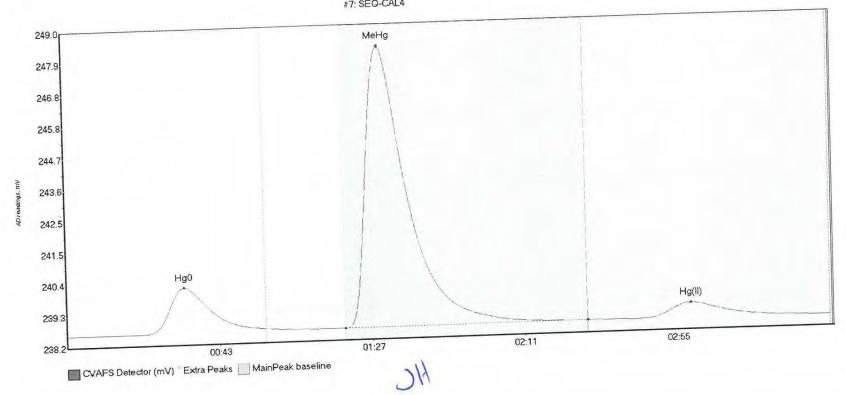
Name SEQ-CAL2 Hg0 SEQ-CAL2 MeHg SEQ-CAL2 Hg(II	15.642 142.049	Start Time 23.2 80.1 163.3	e EndTime 49.5 124.8 212.7	StartValue 238.96 238.96 238.94	EndValue 238.97 238.97 238.95	Peak Max 33.3 89.9 177.7	PeakHeight 0.127 1.063 0.256	Flags OK OK OK	Baseline 238.9704 238.9704 238.9704	BlDev 0.00 0.00 0.00	BlShift -0.03 -0.03 -0.03	Comment	016
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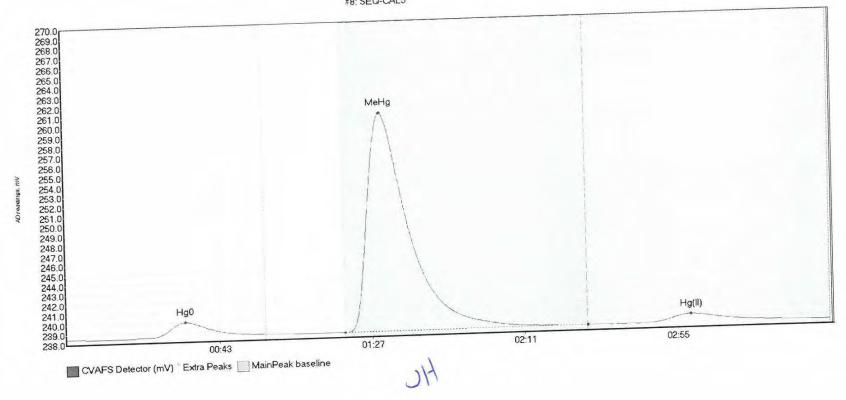
Name SEQ-CAL3 Hg0 SEQ-CAL3 MeHg SEQ-CAL3 Hg(II	154.780 551.845	Start Time 22.6 80.1 164.6	EndTime 57.5 139.2 215.6	StartValue 238.79 238.80 238.79	EndValue 238.87 238.81 238.79	Peak Max 33.9 90.5 179.0	PeakHeight 1.229 4.029 0.399	Flags CT OK OK	Baseline 238.7997 238.7997 238.7997	BlDev 0.00 0.00 0.00	BlShift -0.02 -0.02 -0.02	Comment	016
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#7: SEQ-CAL4



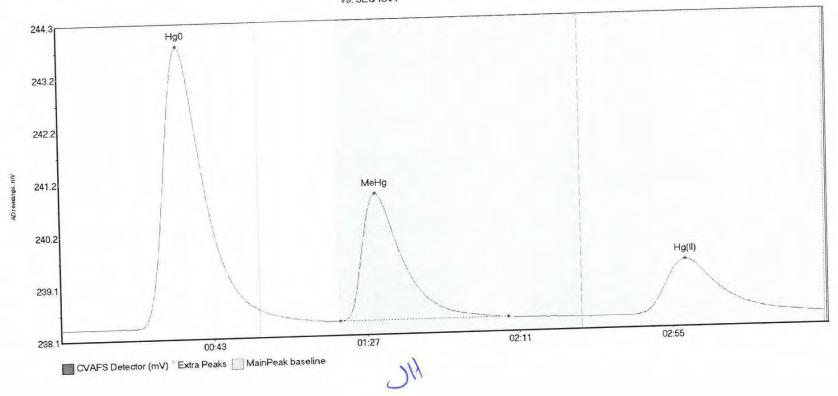
Name SEQ-CAL4 Hg0 SEQ-CAL4 MeHg SEQ-CAL4 Hg(II	196.284 1315.758	Start Time 22.1 80.1 165.0	EndTime 57.5 150.0 211.2	StartValue 238.63 238.65 238.64	EndValue 238.72 238.66 238.65	Peak Max 33.9 90.7 179.8	PeakHeight 1.564 9.557 0.507	Flags CT CT OK	Baseline 238.6371 238.6371 238.6371	B1Dev 0.00 0.00 0.00	BlShift -0.01 -0.01 -0.01	Comment	016	
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#8: SEQ-CAL5



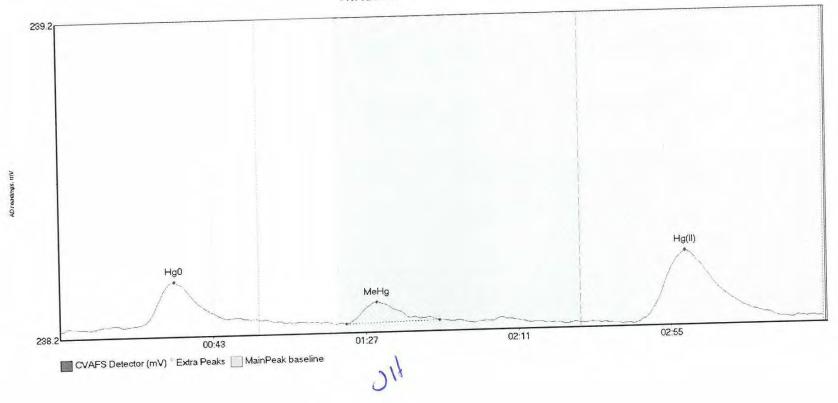
Name SEQ-CAL5 Hg0 SEQ-CAL5 MeHg SEO-CAL5 Hg(II	186.675 3052.843	Start Time 21.7 80.1 165.7	EndTime 57.5 150.0 211.7	StartValue 238.48 238.49 238.53	EndValue 238.58 238.55 238.54	Peak Max 34.1 91.0 179.9	PeakHeight 1.499 22.202 0.832	Flags CT CT OK	Baseline 238.4866 238.4866 238.4866	BlDev 0.00 0.00 0.00	BlShift 0.04 0.04 0.04	Comment	316	
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#9: SEQ-ICV1



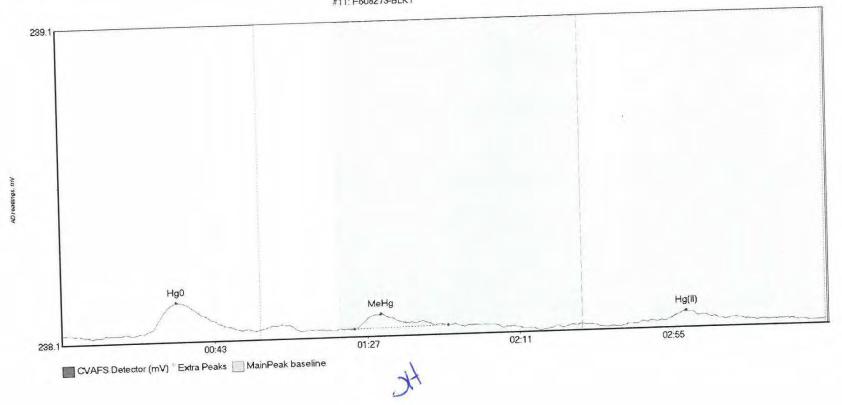
Name SEQ-ICV1 Hg0 SEQ-ICV1 MeHg SEQ-ICV1 Hg(II)	684.266 333.681	Start Time 16.6 80.1 164.7	EndTime 57.5 128.7 219.8	StartValue 238.35 238.41 238.37	EndValue 238.66 238.40 238.37	Peak Max 34.2 90.7 179.9	PeakHeight 5.461 2.468 1.066	Flags CT OK CT	Baseline 238.3486 238.3486 238.3486	B1Dev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	016
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#10: SEQ-ICB1



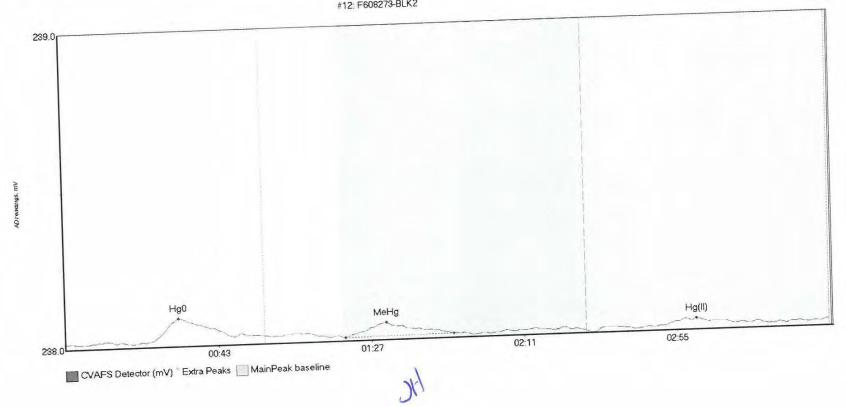
Name SEQ-ICB1 Hg0 SEQ-ICB1 MeHg SEQ-ICB1 Hg(II	17.593 7.830	Start Time 10.1 82.5 166.0	EndTime 57.5 109.3 210.4	StartValue 238.22 238.22 238.21	EndValue 238.24 238.23 238.22	Peak Max 32.9 91.1 180.2	PeakHeight 0.144 0.067 0.225	Flags CT OK OK	Baseline 238.2207 238.2207 238.2207	B1Dev 0.00 0.00 0.00	BlShift 0.00 0.00 0.00	Comment	016
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#11: F608273-BLK1



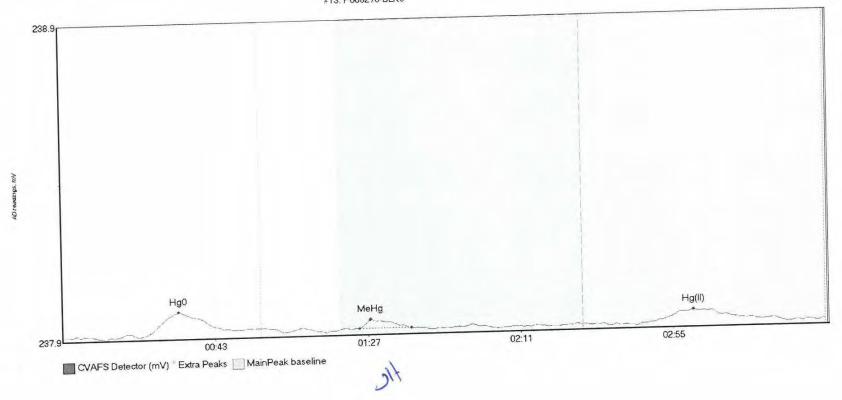
Name Area F608273-BLK1 Hg 12.905 F608273-BLK1 Me 5.216 F608273-BLK1 Hg 2.460	84.2	EndTime 51.5 111.1 191.2	StartValue 238.12 238.12 238.11	EndValue 238.12 238.12 238.11	Peak Max 33.0 91.9 179.9	PeakHeight 0.098 0.045 0.029	Flags OK OK OK	Baseline 238.1198 238.1198 238.1198	BlDev 0.00 0.00 0.00	BlShift -0.01 -0.01 -0.01	Comment	016	
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#12: F608273-BLK2



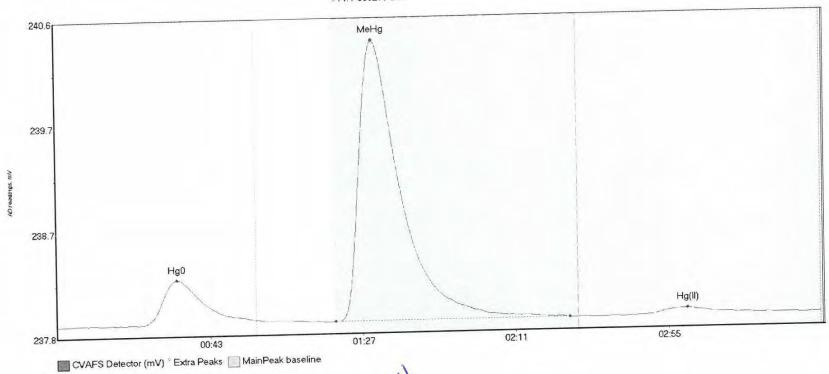
Name Area Start Time F608273-BLK2 Hg 8.814 23.2 F608273-BLK2 Me 6.388 F608273-BLK2 Hg 4.037 165.0	me EndTime StartV 48.6 238.02 111.7 238.02 202.4 238.02	alue EndValue 238.03 32.5 238.02 92.3 238.02 181.8	PeakHeight Flags 0.075 OK 0.044 OK 0.027 OK	s Baseline 238.0233 238.0233 238.0233	BlDev 0.00 0.00 0.00	BlShift 0.01 0.01 0.01	Comment	016
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#13: F608273-BLK3



Name Area F608273-BLK3 Hg 8.910 F608273-BLK3 Me 2.305 F608273-BLK3 Hg 5.528	85.5	e EndTime 49.8 100.5 201.8	StartValue 237.95 237.96 237.96	EndValue 237.97 237.96 237.96	Peak Max 33.5 88.6 181.8	PeakHeight 0.078 0.028 0.036	Flags OK OK OK	Baseline 237.9543 237.9543 237.9543	BlDev 0.00 0.00 0.00	BlShift 0.01 0.01 0.01	Comment	316
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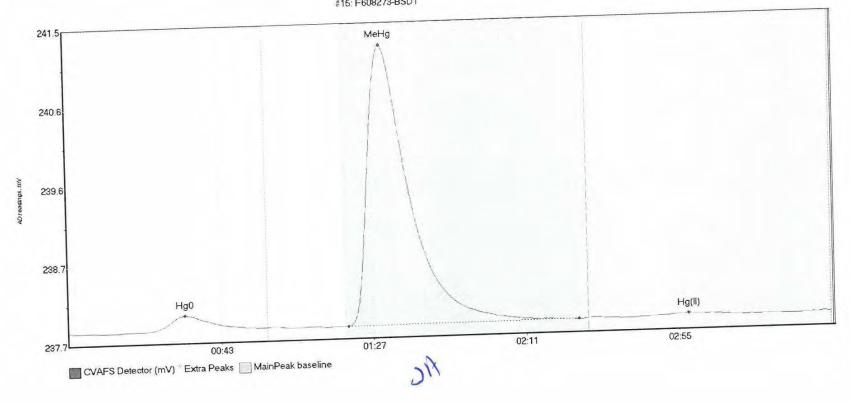
#14: F608273-BS1



211

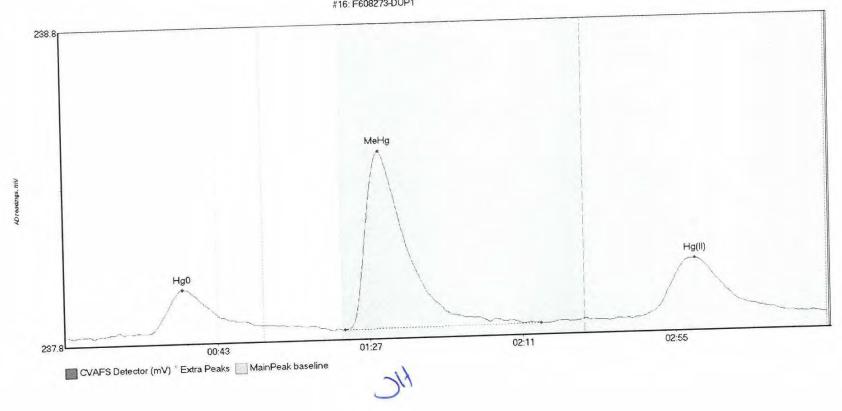
Name Area F608273-BS1 Hg0 49.160 F608273-BS1 MeH 342.440 F608273-BS1 Hg(9.658	23.5 57.5 80.1 147.4	StartValue EndValu 237.90 237.93 237.91 237.91 237.91 237.91	Peak Max 34.4 91.2 181.4	0.396	Flags CT OK OK	Baseline 237.9016 237.9016 237.9016	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	316
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#15: F608273-BSD1



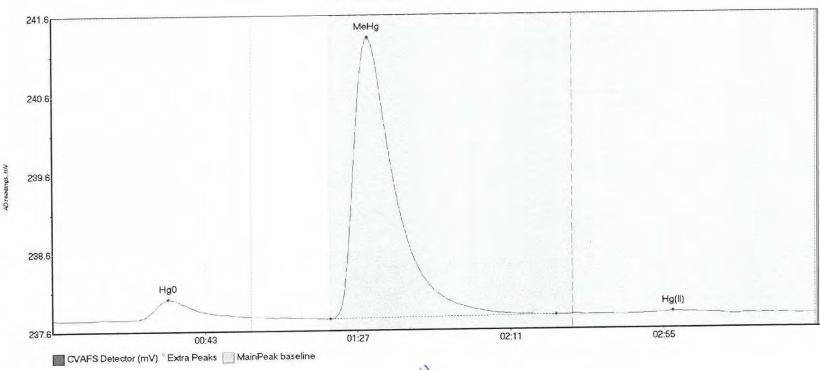
	F608273-BSD1 Me	469.251 80.9	56.7 237.85 147.1 237.85	237.87	33.7 91.0	PeakHeight 0.187 3.415 0.016	OK OK	237.8530	0.00 0.00 0.00	BlShift 0.03 0.03 0.03		016
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#16: F608273-DUP1



F608273-DUP1 Me 77.113 80.7 137.3 237.81	Name Area F608273-DUP1 Hg 17.8 F608273-DUP1 Me 77.1	.875 24.2 .113 80.7	57.2 137.3	237.82	237.83	34.2 91.1	PeakHeight 0.138 0.564 0.184	Flags OK OK OK	Baseline 237.8128 237.8128 237.8128	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	01
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#17: F608273-MS1

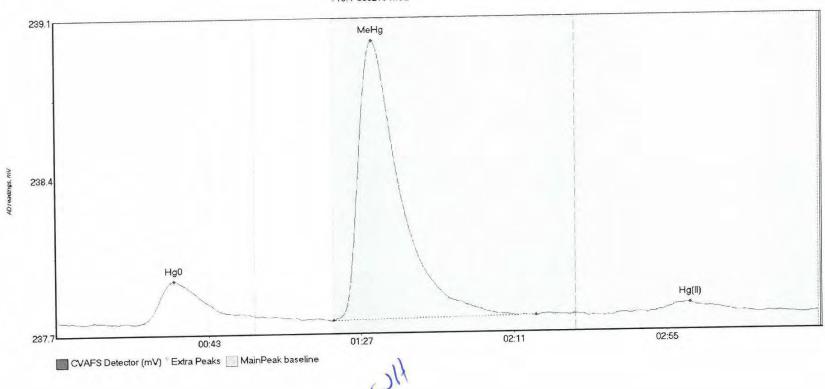


SH

Pe	ak	Max	PeakHeight	Flags
33	. 4		0.261	CT
91	.0		3.561	OK
17	8.1	3	0.023	OK

BlShift	Comment
0.03	
0.03	
0 03	

#18: F608273-MS2



Name		Area	
F608273-MS2	Hg0	24.432	
F608273-MS2	МеН	171.076	
F608273-MS2	Hg (5.999	

Start Time EndTime 57.5 22.9 138.5 80.1 200.7 170.6

237.77 237.78 237.76 237.77

91.4 182.7

StartValue EndValue Peak Max PeakHeight Flags 237.75 237.78 34.1 0.192 CT 1.246 OK 0.042

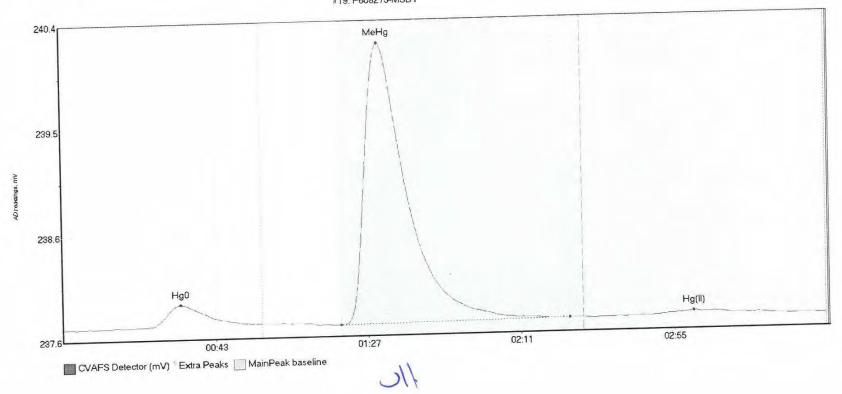
Baseline BlDev 237.7576 0.00 237.7576 0.00 237.7576 0.00

BlShift Comment 0.02 0.02

0.02

016

#19: F608273-MSD1



		2000000	
Name		Area	
F608273-MSD1	Hg	24.692	
F608273-MSD1	Me	346.758	
F608273-MSD1	Hg	6.498	

20.9	Time	EndTime 57.5 146.0 205.8	
168.9		205.8	

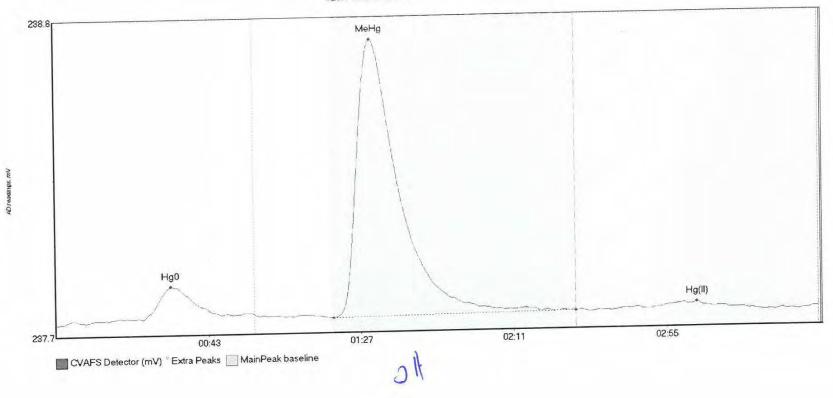
EndValue
237.75
237.75
237.75

Peak Max	PeakHeight	Flags
34.0	0.197	CT
91.5	2.509	OK
181.6	0.036	OK

Baseline	B1
237.7330	0.
237.7330	0.
237.7330	0.

B1	Dev	BlShift
0.	00	0.01
140.00	00	0.01
	00	0.01

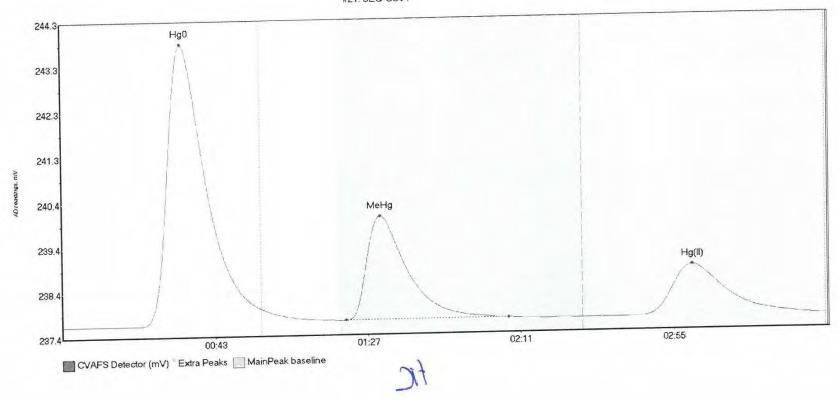




Name F608273-MSD2 Hg F608273-MSD2 Me F608273-MSD2 Hg	137.712	Start Time 2.2 80.2 170.9	EndTime 57.5 149.9 194.2	StartValue 237.70 237.71 237.72	EndValue 237.73 237.72 237.73	Peak Max 33.1 91.2 184.7	PeakHeight 0.130 0.992 0.021	Flags CT OK OK	Baseline 237.6981 237.6981 237.6981	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
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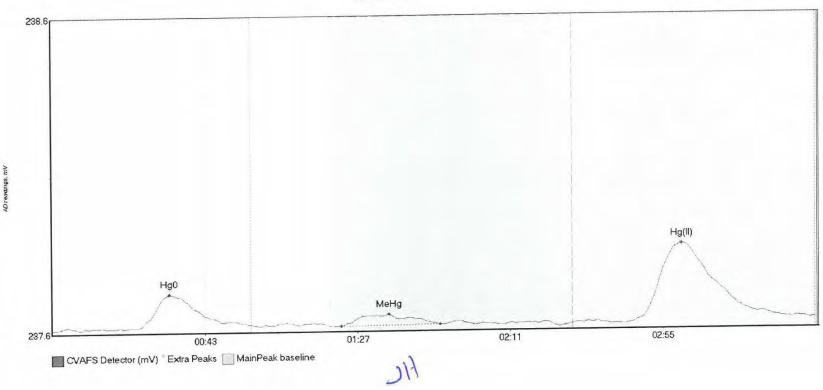
MHg27001-160812-1

#21: SEQ-CCV1



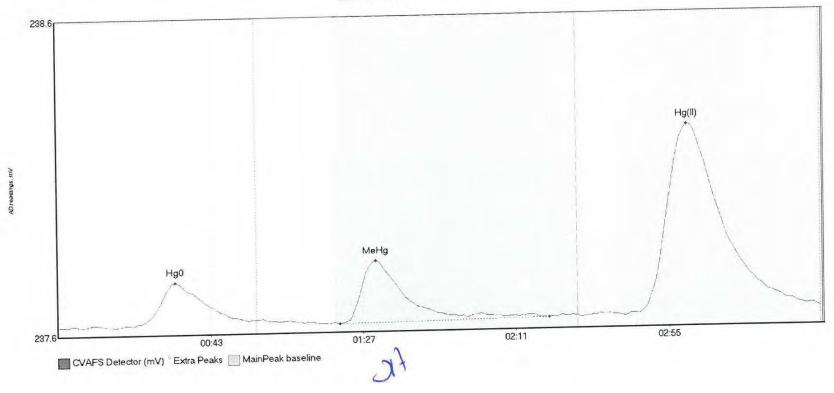
Name Area Start Time EndTime StartValue EndValue Peak Max PeakHeight Flags Baseline BlDev 237.6744 0.00 SEQ-CCV1 Hg0 731.557 20.5 57.5 237.68 238.01 34.5 6.090 CT 237.6744 0.00 SEQ-CCV1 MeHg 300.069 81.7 128.6 237.75 237.75 91.7 2.251 OK 237.6744 0.00 SEQ-CCV1 Hg(II) 197.264 165.3 219.8 237.73 237.73 181.4 1.104 CT 237.6744 0.00	0.06	01
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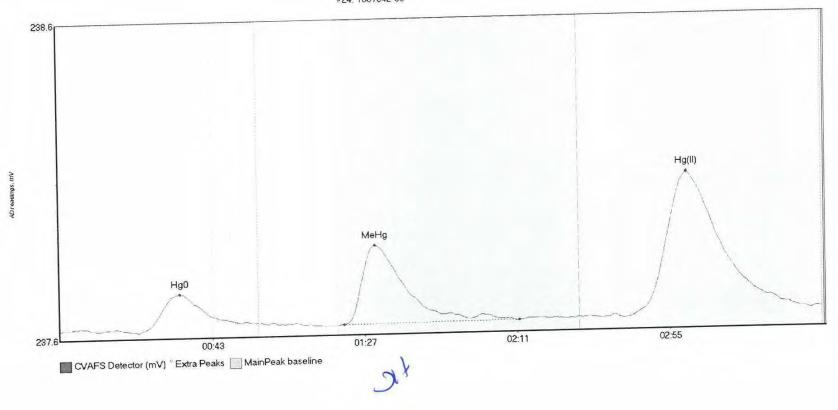
SEQ-CCB1 Hg(II) 44.056 167.1 218.4 237.66 237.67 181.3		Area 14.243 5.711 44.056	Start Time 21.0 83.3 167.1	EndTime 57.1 111.7 218.4	StartValue 237.65 237.66 237.66	EndValue 237.66 237.66 237.67	Peak Max 33.7 97.0 181.5	PeakHeight 0.108 0.037 0.249	Flags OK OK OK	Baseline 237.6502 237.6502 237.6502	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	016
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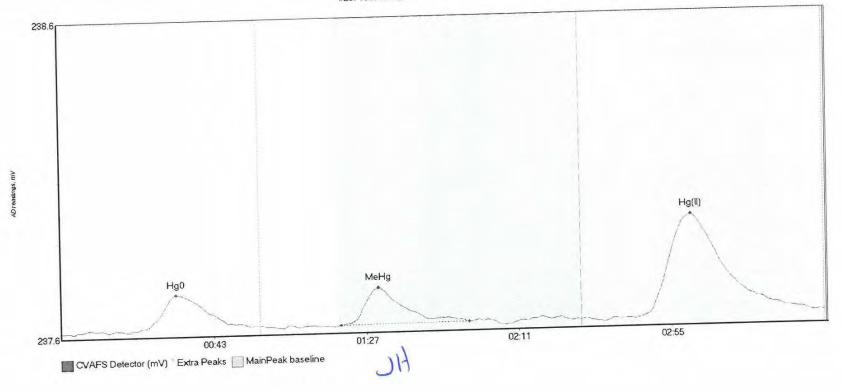
Name Area Start Time EndTime StartValue EndValue Peak Max PeakHeight Flags Baseling Flags 1.000 0.03 0.03 0.135 0K 237.6352 0.00 0.03 0.03 0.03 0.03 0.03 0.03 0.0	01				0.00	237.6352	OK	0.199	33.9 91.8	237.65 237.64	237.64 237.63	55.0 141.8	21.8 81.3	17.937 29.207	1607542-01 Hg0 1607542-01 MeHg
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#24: 1607542-03



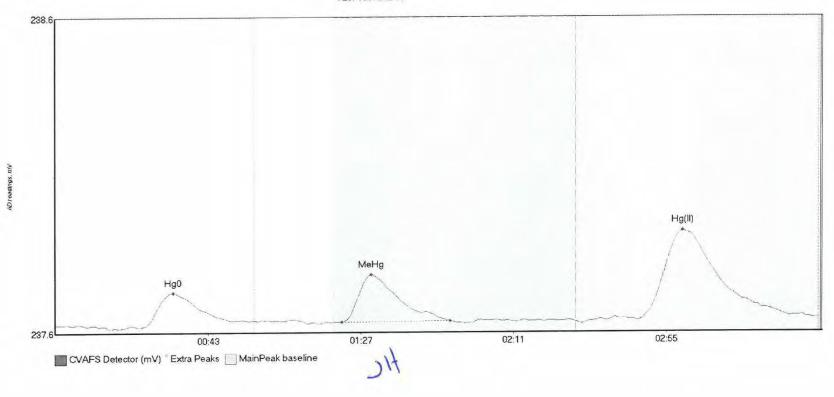
Name 1607542-03 Hg0 1607542-03 MeHg 1607542-03 Hg(I	36.074	23.1 82.1	ne EndTime 56.8 132.6 216.7	StartValue 237.61 237.62 237.63	EndValue 237.63 237.63 237.65	Peak Max 34.7 91.2 181.1	PeakHeight 0.120 0.251 0.456	Flags OK OK OK	Baseline 237.6175 237.6175 237.6175	BlDev 0.00 0.00 0.00	BlShift 0.04 0.04 0.04	Comment	316
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#25: 1607542-04



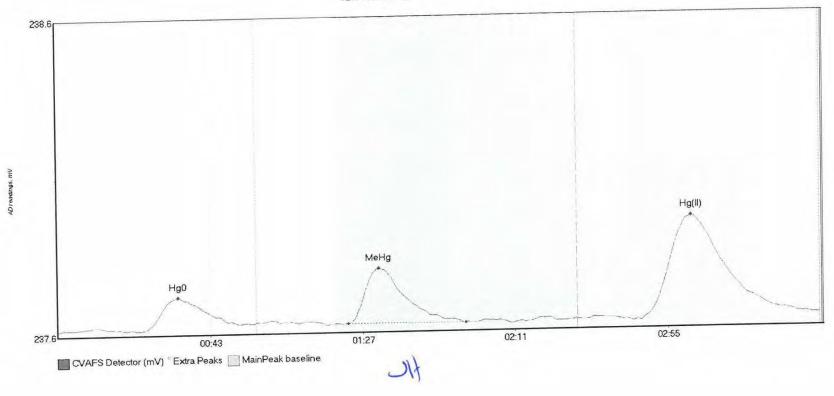
Name Area Sta 1607542-04 Hg0 16.271 19. 1607542-04 MeHg 14.810 80. 1607542-04 Hg(I 58.159 167		EndTime 54.8 117.6 219.8	StartValue 237.61 237.62 237.63	EndValue 237.62 237.62 237.64	Peak Max 33.1 91.5 181.6	PeakHeight 0.118 0.118 0.322	Flags OK OK CT	Baseline 237.6108 237.6108 237.6108	0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	316
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#26: 1607542-05



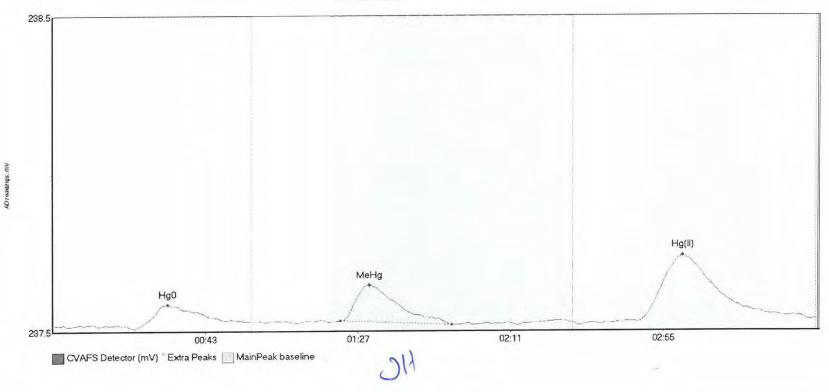
Name 1607542-05 Hg0	Area	Start Time 24.2	EndTime	StartValue 237.59	EndValue 237.61	Peak Max 33.8	PeakHeight 0.111	Flags	Baseline 237.5973		BlShift 0.02	Comment	016
							77	OK	237.5973	0.00	0.02		210
1607542-05 MeHg	19.416	82.6	113.7	237.60	237.61	91.0	0.151						
1607542-05 Hg(I		154.4	219.1	237.61	237.62	180.7	0.286	OK	237.5973	0.00	0.02		



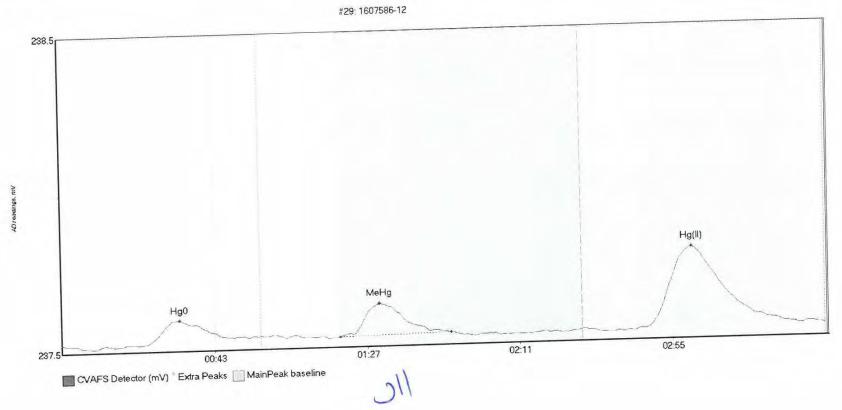


Name 1607542-06 Hg0 1607542-06 MeHg	23.111	Start Time 24.8 83.8 168.2	EndTime 52.4 117.7 219.4	StartValue 237.58 237.59 237.59	EndValue 237.59 237.59 237.60	Peak Max 34.7 92.6 182.8	PeakHeight 0.103 0.175 0.328	Flags OK OK OK	Baseline 237.5757 237.5757 237.5757	0.00 0.00 0.00	0.03 0.03 0.03	Connienc	016
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#28: 1607542-07

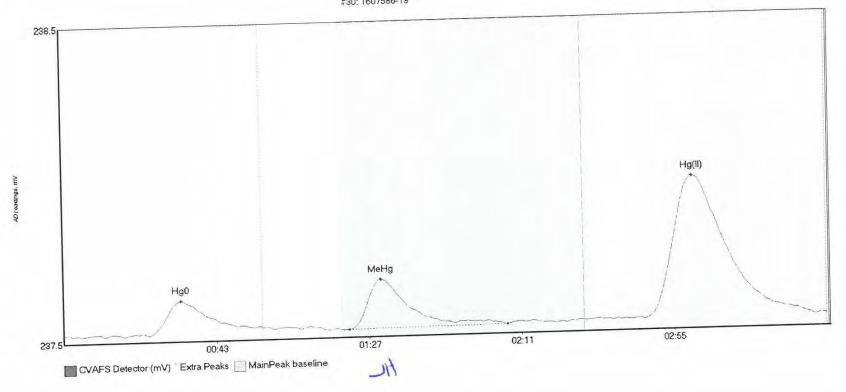


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max		Flags			BlShift	Comment	
1607542-07 Hg0	10.281	23.5	57.3	237.55	237.57	33.1	0.077	OK	237.5603	0.00	0.02		016
1607542-07 MeHq			115.0	237.57	237.56	91.3	0.115	OK	237.5603	0.00	0.02		310
1607542-07 Ha(I		168.6	218.2		237.58	181.6	0.210	OK	237.5603	0.00	0.02		



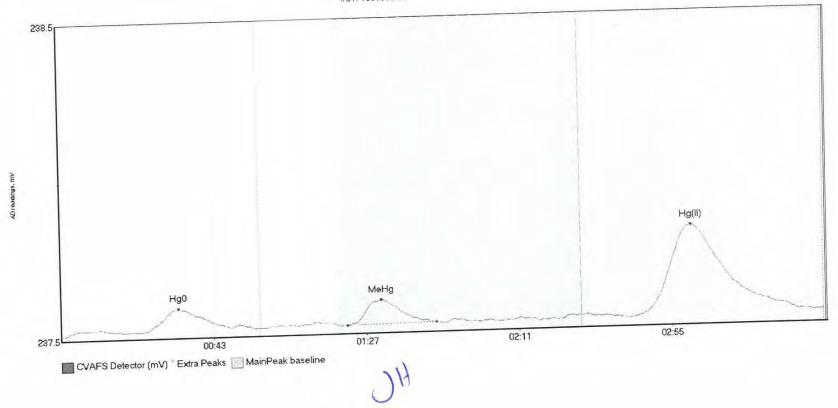
1607586-12 Hg0 9.465 23.3 54.0 237.55 237.56 91.5 0.103 OK 237.5412 0.00 0.02 1607586-12 MeHg 12.885 80.1 112.1 237.55 237.56 181.6 0.255 OK 237.5412 0.00 0.02 1607586-12 Hg (I 43.631 168.1 212.6 237.55 237.56	12 Hg0 12 MeHg	2.885 80.1	54.0 237.54 112.1 237.55	237.55	91.5	PeakHeight 0.077 0.103 0.255	OK	Baseline 237.5412 237.5412 237.5412	BlDev 0.00 0.00 0.00	B1Shift 0.02 0.02 0.02	Comment)16
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#30: 1607586-19



Name Area 1607586-19 Hg0 13.666 1607586-19 MeHg 21.465 1607586-19 Hg(I 78.834	Start Time 24.5 82.2 167.7	e EndTime 57.5 127.9 216.7	StartValue 237.51 237.52 237.53	EndValue 237.53 237.52 237.53	Peak Max 33.7 91.5 181.5	PeakHeight 0.109 0.157 0.450	Flags CT OK OK	Baseline 237.5199 237.5199 237.5199	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	316	
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#31: 1607586-20



Name		Area
1607586-20		12.317
1607586-20 1607586-20	Meng Hg(I	50.096

Start	Time	EndTim
82.4		108.1
166.7		214.7

StartValue	EndValue
237.49	237.50
237.50	237.51
237.51	237.52

eak Max	PeakHeight	Fla
33.9	0.080	OK
32.3	0.079	OK
181.8	0.285	OK

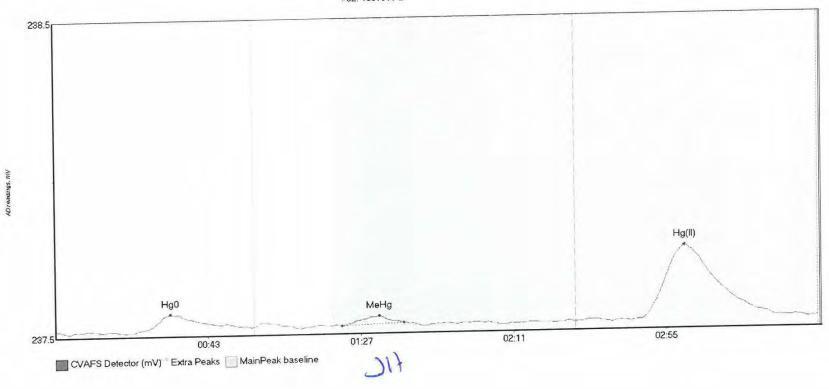
ags	3	

Baseline	BlDe
237.4881	0.0
237.4881	0.00
237.4881	0.0

BlShi
0.03
0.03
0.03

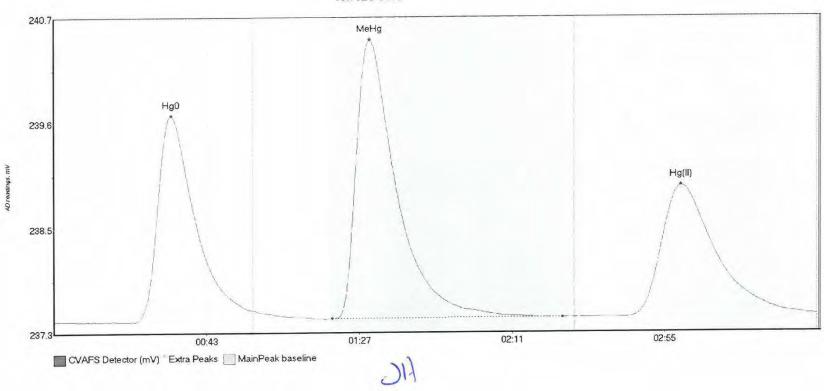


#32: 1607586-21



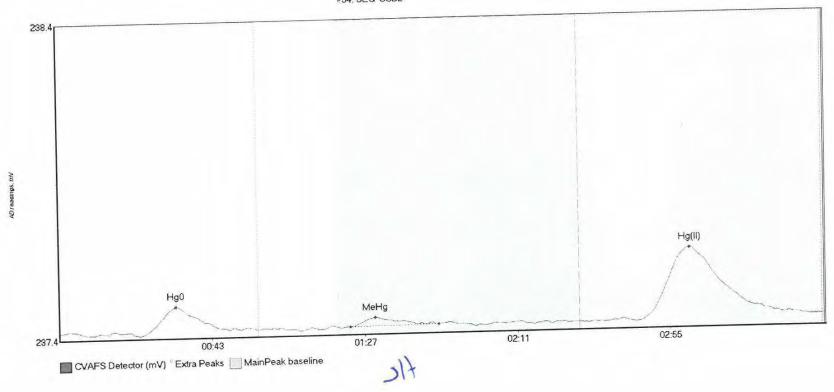
Name Area 1607586-21 Hg0 6.1 1607586-21 MeHg 2.3 1607586-21 Hg(I 39.	58 26.3 29 82.6	EndTime 56.6 100.4 217.2	StartValue 237.49 237.49 237.50	EndValue 237.49 237.50 237.50	Peak Max 33.2 93.3 181.5	PeakHeight 0.047 0.030 0.232	Flags OK OK OK	Baseline 237.4848 237.4848 237.4848	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	016
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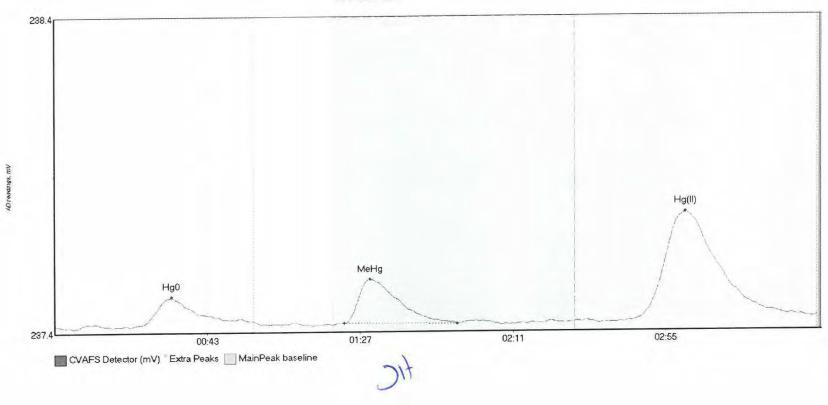
Name SEQ-CCV2 Hg0 SEQ-CCV2 MeHg SEQ-CCV2 Hg(II			EndTime 57.5 146.4 219.8		EndValue 237.58 237.50 237.52	Peak Max 33.8 91.0 180.8	PeakHeight 2.200 2.972 1.407	Flags CT OK CT	237.4668 237.4668	0.00	0.06 0.06 0.06	Comment	316
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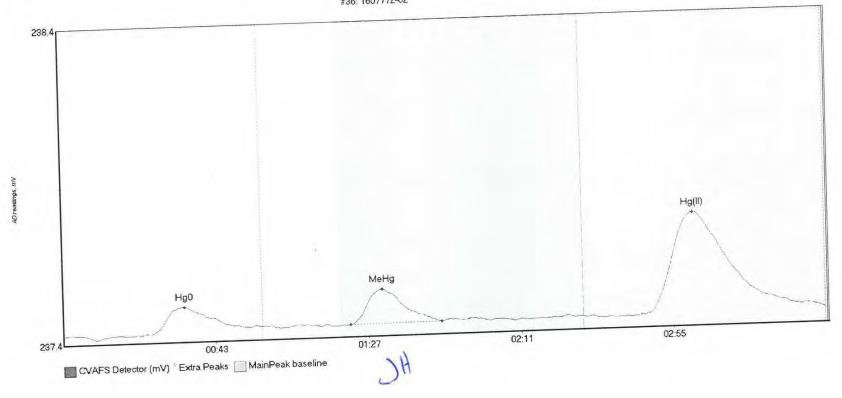
	9.764 3.198	Start Time 23.6 83.8 166.6	EndTime 49.2 109.3 216.5	StartValue 237.45 237.46 237.46	EndValue 237.46 237.47 237.47	Peak Max 33.6 91.0 181.8	PeakHeight 0.088 0.029 0.231	Flags OK OK OK	Baseline 237.4597 237.4597 237.4597	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	316
SEO-CCB2 Hg(II)	40.802	100.0	210.0										

#35: 1607772-01



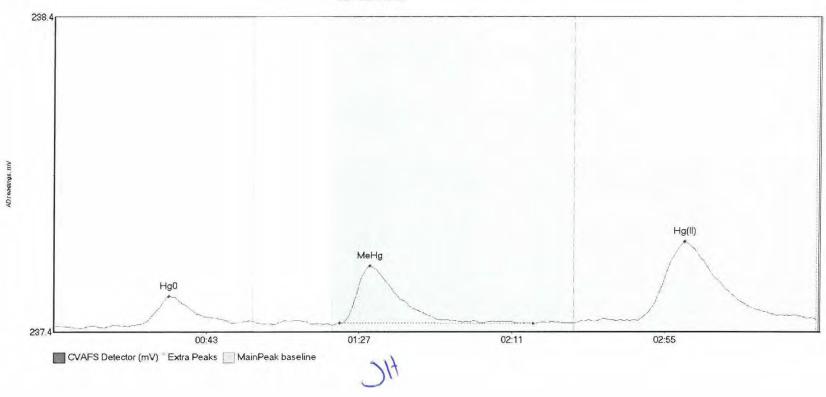
Name 1607772-01 Hg0 1607772-01 MeHg	18.569	Start Time 24.7 83.5	57.5 116.0	StartValue 237.44 237.45	237.45	33.7 91.0	PeakHeight 0.087 0.140 0.342	Flags CT OK OK	Baseline 237.4402 237.4402 237.4402		BlShift 0.02 0.02 0.02	Comment	016
1607772-01 Hg(I	59.694	166.3	218.5	237.45	237.46	181.8	0.342	OK	237.4402	0.00	0.02		

#36: 1607772-02



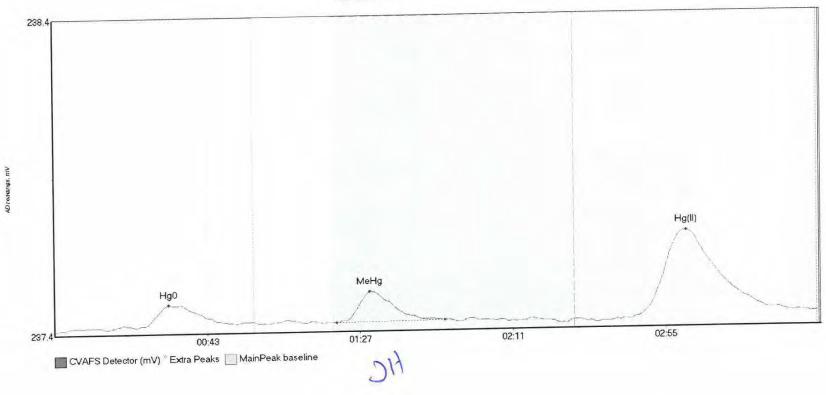
1607772-02 Hg (I 59.446 168.0 219.6 259.1	1607772-02 Hg0 10	0.559 3.194	82.9	EndTime 54.0 109.2 219.8	StartValue 237.42 237.43 237.44	EndValue 237.44 237.44 237.45	Peak Max 35.1 92.2 181.8	PeakHeight 0.085 0.109 0.321	Flags OK OK CT	Baseline 237.4239 237.4239 237.4239	B1Dev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	016
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#37: 1607772-03



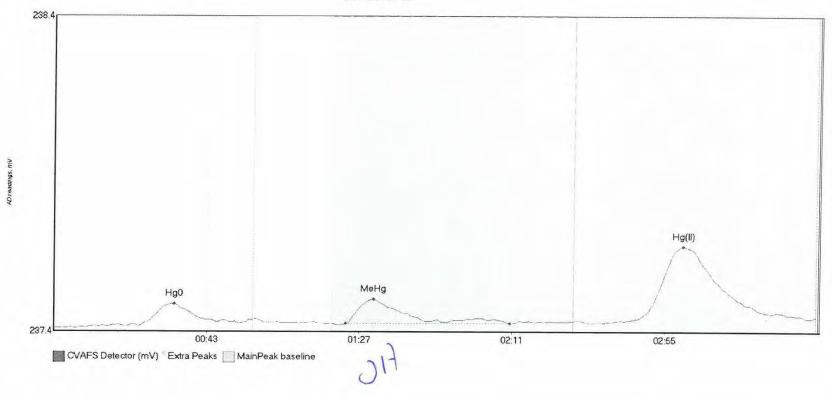
Name	Area	Start Time	e EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607772-03 Hg0	10.368	23.2	51.4	237.42	237.42	33.3	0.092	OK	237.4127	0.00	0.02		016
1607772-03 MeHg	25.233	82.4	138.2	237.42	237.42	91.1	0.182	OK	237.4127	0.00	0.02		110
1607772-03 Hg(I	46.679	150.1	219.8	237.42	237.44	181.8	0.258	CT	237.4127	0.00	0.02		

#38: 1607772-04



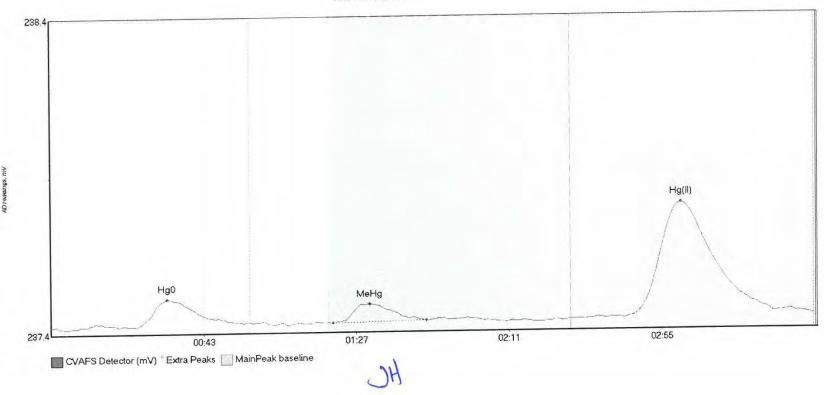
Name 1607772-04 Hg0 1607772-04 MeHg	10.929	Start Time 15.5 81.3 166.3	EndTime 52.5 112.5 218.2	StartValue 237.40 237.42 237.42	EndValue 237.42 237.42 237.43	Peak Max 33.0 90.9 182.0	PeakHeight 0.075 0.098 0.279	Flags OK OK OK	Baseline 237.4011 237.4011 237.4011	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	216
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Name 7	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607772-05 Hg0 7	7.956	15.5	53.3	237.40	237.41	34.7	0.072	OK	237.3934	0.00	0.03	oonanor.c	
1607772-05 MeHg 1				237.41			0.077	OK	237.3934	0.00	0.03		016
1607772-05 Hg(I 4	42.855	166.2	218.1	237.42	237.42	181.3	0.235	OK	237.3934	0.00	0.03		

#40: 1607772-06



Name		Area	5
1607772-06	Hq0	11.381	2
1607772-06			8
1607772-06	Hg(I	65.082	1

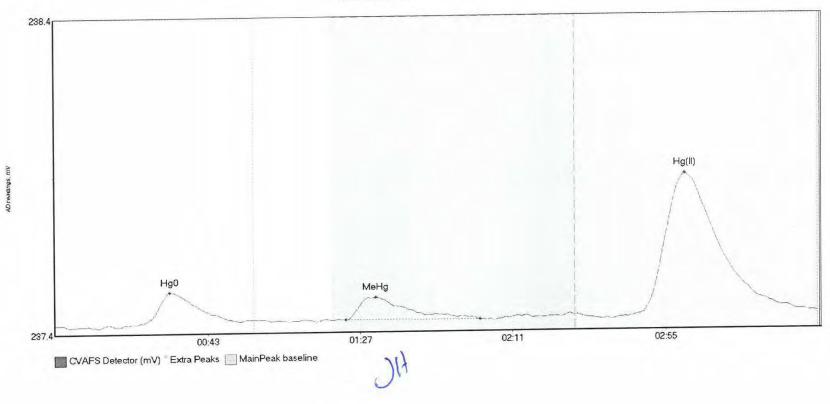
Start Time EndTime 24.6 55.6 81.5 108.2 165.3 219.8 StartValue EndValue 237.40 237.41 237.40 237.41 237.41 237.42 Peak Max 33.5 91.9 181.6

PeakHeight Flags 0.087 OK 0.060 OK 0.364 CT Baseline BlDev 237.3991 0.00 237.3991 0.00 237.3991 0.00 BlShift 0.02 0.02 0.02

Comment

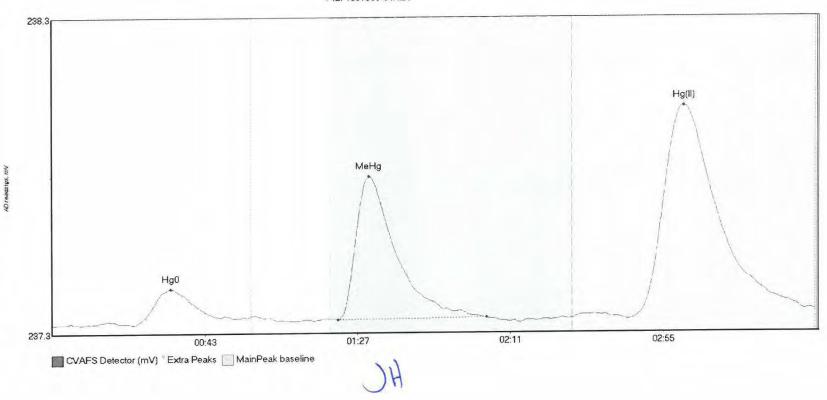
016

#41: 1607772-07



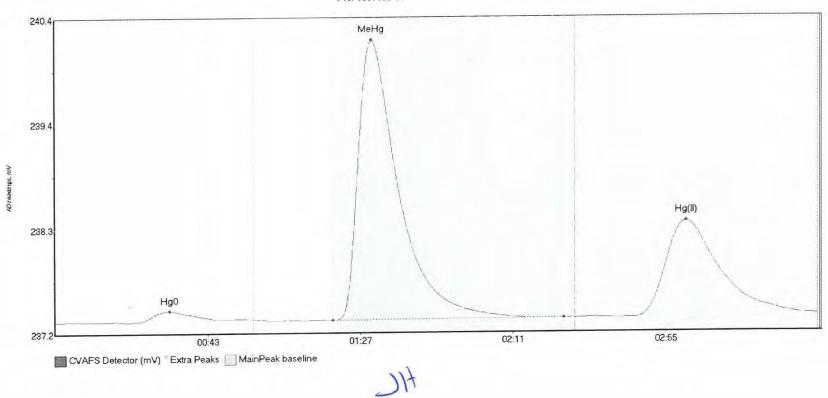
Name 1607772-07 Hg0 1607772-07 MeHg 1607772-07 Hg(1	11.641	Start Time 23.4 83.9 168.2	EndTime 53.2 122.6 219.7	237.40	EndValue 237.39 237.40 237.41	Peak Max 33.1 92.4 181.6	PeakHeight 0.102 0.071 0.443	Flags OK OK OK	237.3861 237.3861	0.00	BlShift 0.03 0.03 0.03	Comment	316
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#42: 1607586-04RE3



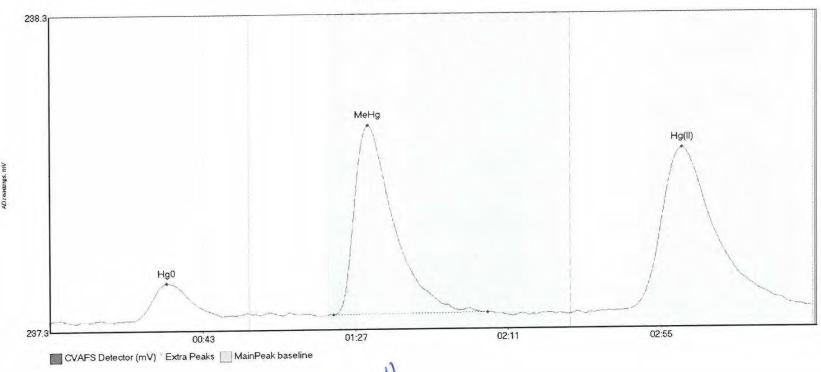
Name	Area	Start Time						Flags	Baseline 237.3729		BlShift 0.04	Comment	0.74
1607586-04RE3 H	13.425	23.4	52.6	237.37	237.39	34.1	0.114	OK			0.04		016
		82.4	125.1	237.39	237.39	91.3	0.455	OK	237.3729	0.00	0.04		
1607586-04RE3 M							0.676	Cm	237.3729	0.00	0.04		
1607586-04RE3 H	120.436	166.0	219.8	237.39	237.42	182.0	0.070	C1	231.3123	0.00	200		

#43: 1607805-01



Name		Start Time 24.1	EndTime 57.5	StartValue 237.37	EndValue 237.39	Peak Max 33.0	PeakHeight 0.108	Flags	Baseline 237.3701		BlShift 0.05	Comment	016
1607805-01 Hg0						91.3	2.822	OK	237.3701	0.00	0.05		
1607805-01 MeHg		80.1	146.8			181.9	0.972	OK	237.3701	0.00	0.05		
1607805-01 Hg(I	172.156	167.2	219.7	237.39	237.42	101.9	0.312	OIL	201.0102		0.000		

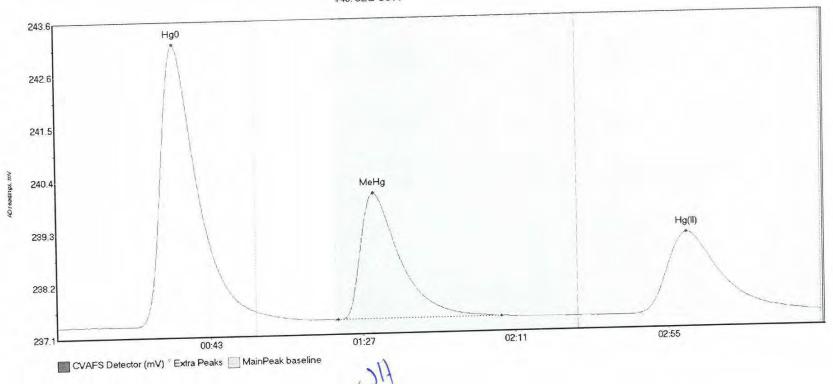




JH

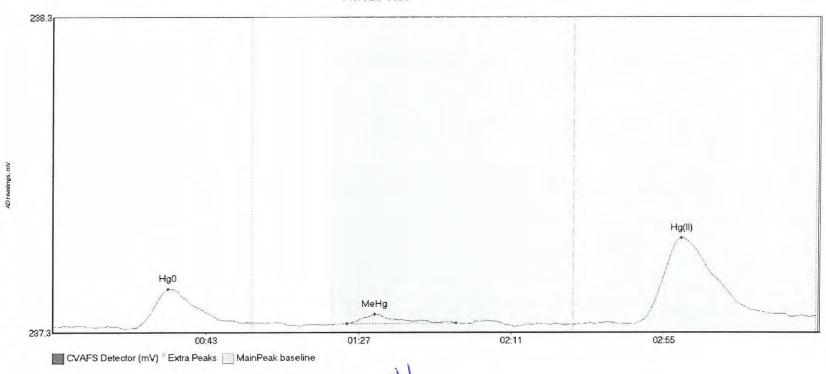
Name 1607805-02 Hg0 1607805-02 MeHg	78.640	Start Time 24.2 81.8 158.1	EndTime 49.7 126.2 219.8	StartValue 237.36 237.38 237.38	EndValue 237.37 237.38 237.39	Peak Max 33.6 91.6 182.2	PeakHeight 0.119 0.600 0.520	Flags OK OK CT	Baseline 237.3619 237.3619 237.3619	0.00 0.00 0.00	0.03 0.03 0.03	Comment	016
1607805-02 Hg(I	92.358	158.1	219.8	231.30	231.33	102.2	0.020						

#45: SEQ-CCV3



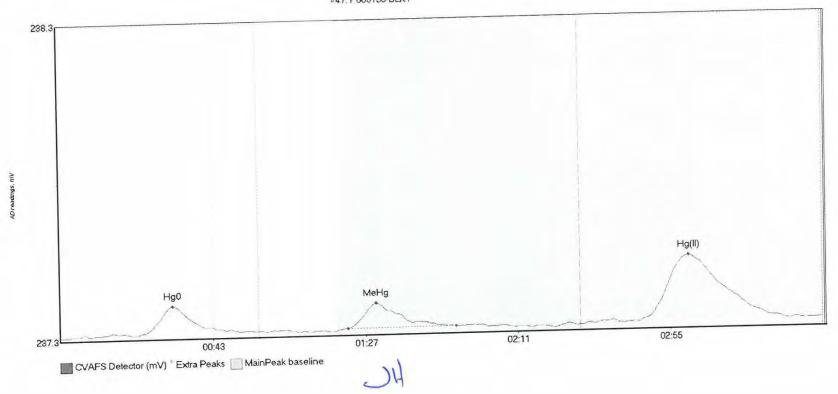
SEQ-CCV3 MeHg 343.435 80.7 128.0 237.42 237.3521 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			237.35 23 0 237.42 23	237.61 33.9 237.42 91.3	PeakHeight 5.832 2.611 1.692	Flags CT OK OK	Baseline 237.3521 237.3521 237.3521	B1Dev 0.00 0.00 0.00	BlShift 0.08 0.08 0.08	Comment)16
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#46: SEQ-CCB3



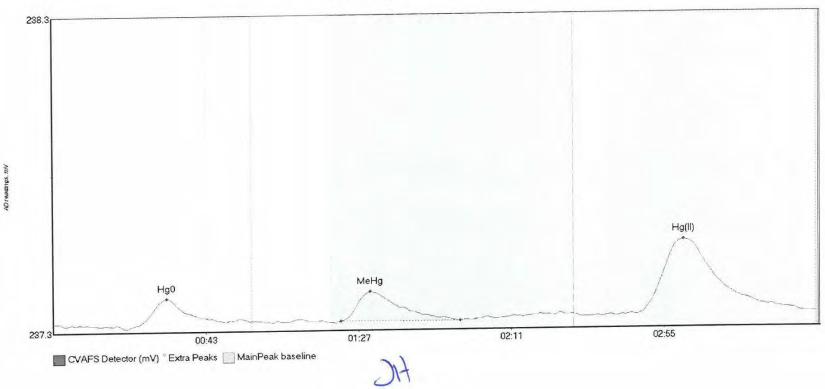
BlShift Comment Area 15.663 Start Time EndTime StartValue EndValue Peak Max PeakHeight Flags Baseline BlDev 237.34 237.36 33.0 0.124 OK 237.3453 0.00 0.03 SEQ-CCB3 Hg0 23.2 54.6 016 0.030 237.3453 0.00 237.3453 0.00 237.36 SEQ-CCB3 MeHg 3.548 84.6 116.1 237.35 92.6 OK 0.03 SEQ-CCB3 Hg(II) 45.905 167.2 213.0 237.35 237.38 181.1

#47: F608155-BLK1



Name F608155-BLK1 Hg F608155-BLK1 Me F608155-BLK1 Hg	9.137	82.9	EndTime 56.3 114.2 210.3	StartValue 237.34 237.35 237.35	EndValue 237.35 237.35 237.36	Peak Max 32.5 91.0 181.3	PeakHeight 0.091 0.080 0.211	Flags OK OK OK	Baseline 237.3383 237.3383 237.3383	0.00 0.00 0.00	0.02 0.02 0.02 0.02	Commenc)16
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#48: F608155-BLK2



Name		Area	
F608155-BLK2	Hg	8.694	
F608155-BLK2	Me	12.920	
F608155-BLK2	Hg	42.327	

Start Time EndTime 48.3 22.7 117.3 82.9 168.1 219.0

StartValue EndValue 237.34 237.33 237.32 237.34 237.35 237.35

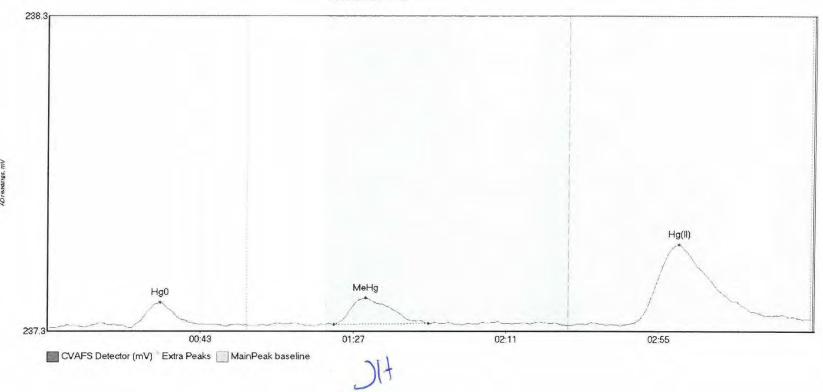
Peak Max 32.7 91.3 181.7

PeakHeight Flags 0.089 OK 0.093 OK OK

Baseline BlDev 237.3339 0.00 237.3339 0.00 237.3339 0.00

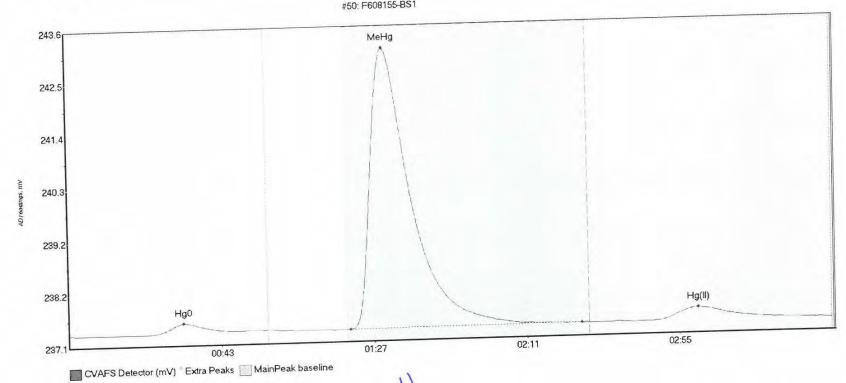
BlShift Comment 0.02 0.02

#49: F608155-BLK3

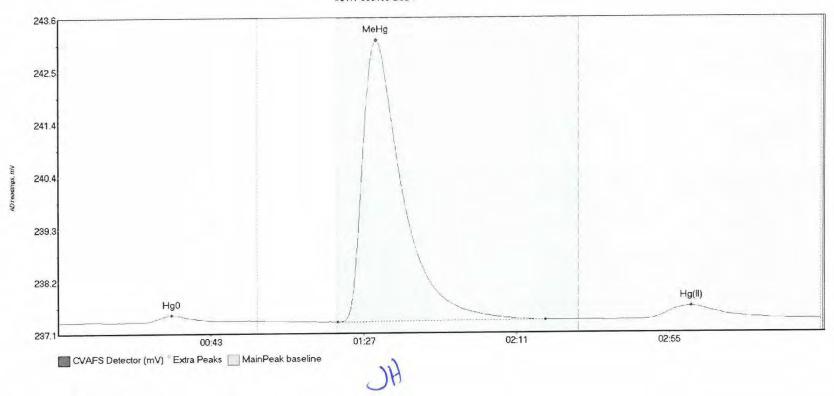


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F608155-BLK3 Hg	7.924	23.9	50.9	237.32	237.33	32.5	0.080	OK	237.3250	0.00	0.03		216
F608155-BLK3 Me	10.996	82.5	109.7	237.33	237.34	91.6	0.084	OK	237.3250	0.00	0.03		016
F608155-BLK3 Hg	44.445	167.4	217.6	237.34	237.35	181.9	0.252	OK	237.3250	0.00	0.03		

#50: F608155-BS1

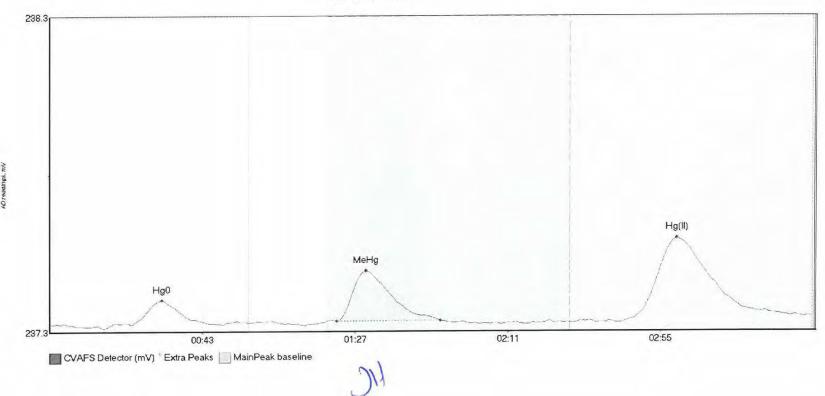


#51: F608155-BSD1



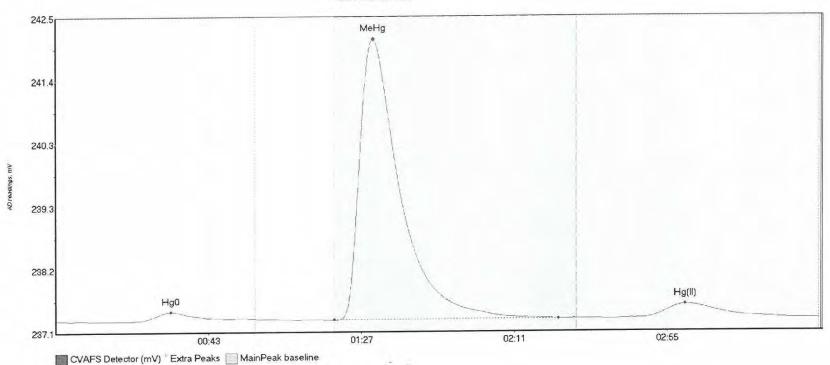
4 5 50 7 1 1 50	Area	Start Time 23.2	EndTime	StartValue 237.33		Peak Max 32.7	PeakHeight 0.143	Flags OK	Baseline 237.3231		BlShift 0.03	Comment	016
F608155-BSD1 Hg					E 2 / C 2 / C	91.4	5.836	OK	237.3231	0.00	0.03		310
F608155-BSD1 Me	779.460	80.4	140.3					011	237.3231		0.03		
F608155-BSD1 Hg	49.268	167.8	219.3	237.35	237.35	182.3	0.272	UK	231.3231	0.00	0.00		

#52: F608155-DUP1



F608155-DUP1 Hg F608155-DUP1 Me	7.599 19.869	Start Time 23.6 82.7	45.7 112.6	237.32 237.33	237.32 237.33	32.4 91.1	0.078	OK OK	Baseline 237.3224 237.3224 237.3224	0.00	81Shift 0.02 0.02 0.02	Comment	016
F608155-DUP1 Hg	45.906	164.8	217.3	237.33	237.35	180.8	0.266	OK	237.3224	0.00	0.02		





Name		HICO
F608155-MS1	Hg0	17.267
F608155-MS1	Мен	645.632
F608155-MS1	Hg(39.712

Start Time EndTime 24.1 57.5 144.7 80.1 166.8 209.7

StartValue EndValue 237.34 237.32 237.32 237.34 237.33 237.34

Peak Max 33.3 91.4 181.2

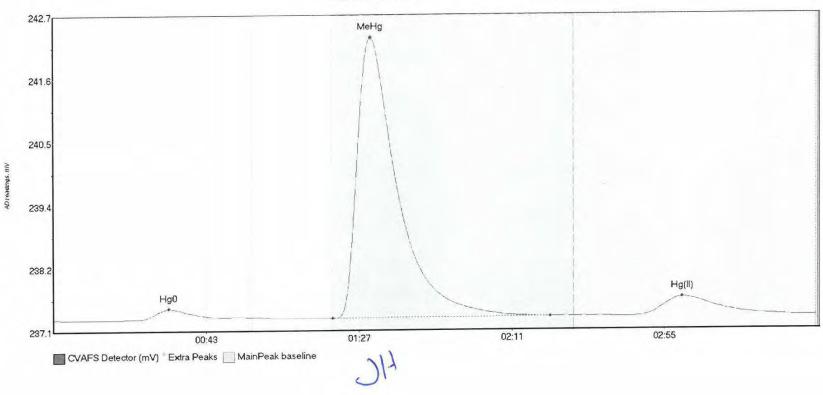
PeakHeight Flags 0.148 CT OK 4.798 0.235 OK

Baseline BlDev 237.3150 0.00 237.3150 0.00 237.3150 0.00

BlShift Comment 0.02 0.02 0.02

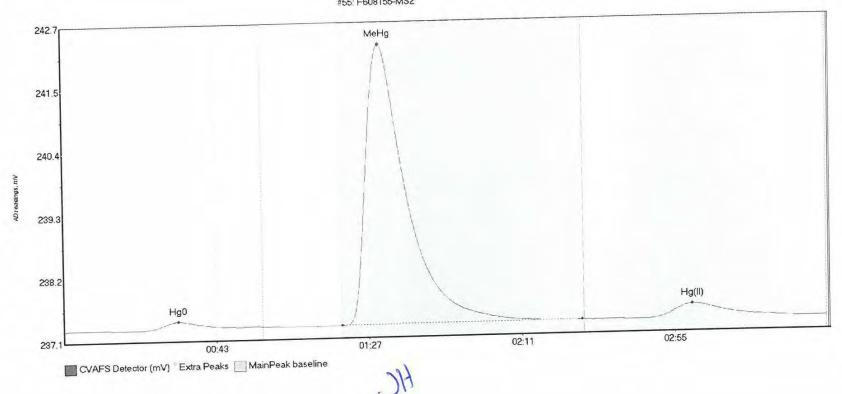
016





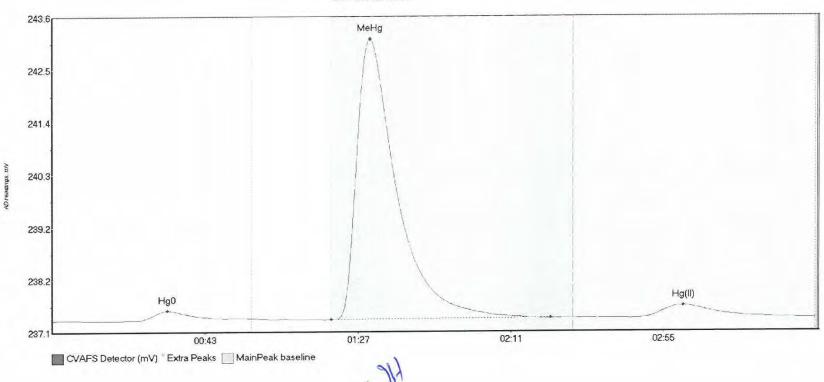
Walnut	Area	Start Time	e EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline		BlShift	Comment	
Name F608155-MSD1 H		24.7	48.9	237.31	237.33	33.3	0.188	OK	237.3053		0.03		016
F608155-MSD1 M		80.4	143.0	237.31	237.33	91.5	5.033	OK	237.3053		0.03		
F608155-MSD1 H		167.3	214.3	237.33	237.33	181.2	0.340	OK	237.3053	0.00	0.03		

#55: F608155-MS2



Name F608155-MS2 Hg0 F608155-MS2 MeH F608155-MS2 Hg(16.585 665.800	80.1	EndTime 57.5 149.3 210.2	StartValue 237.30 237.32 237.33	EndValue 237.33 237.34 237.34	Peak Max 33.2 91.4 181.1	PeakHeight 0.142 4.936 0.248	Flags CT OK OK	Baseline 237.3054 237.3054 237.3054	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
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Name		Area
F608155-MSD2	Hg	21.560
F608155-MSD2	Me	781.097
F608155-MSD2	Hg	42.186

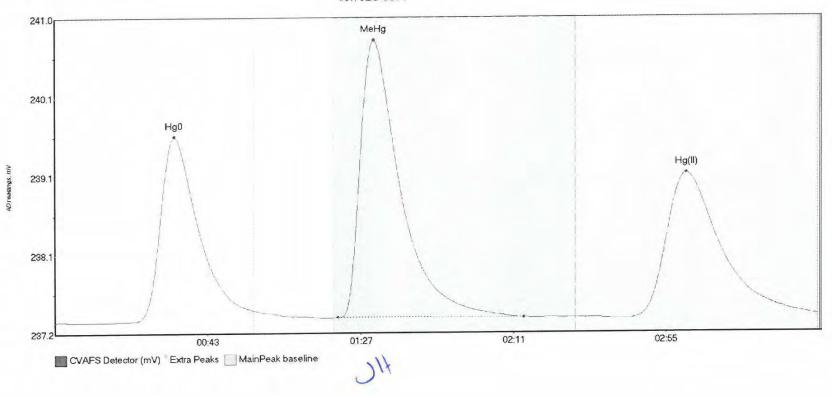
Start	Time	EndTime
22.9		56.6
80.2		143.5
168.2		209.5

StartValue	EndValue
237.31	237.35
237.32	237.35
237.34	237.35

ight Flag
OK
OK
OK

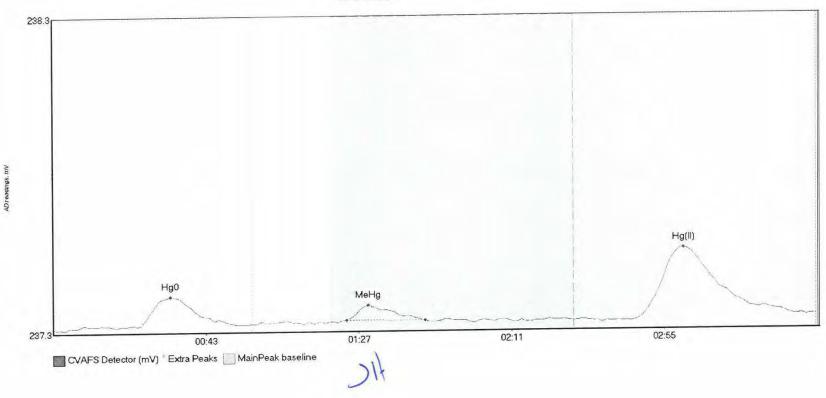
BlShift	1
0.04	
0.04	
0.04	

#57: SEQ-CCV4



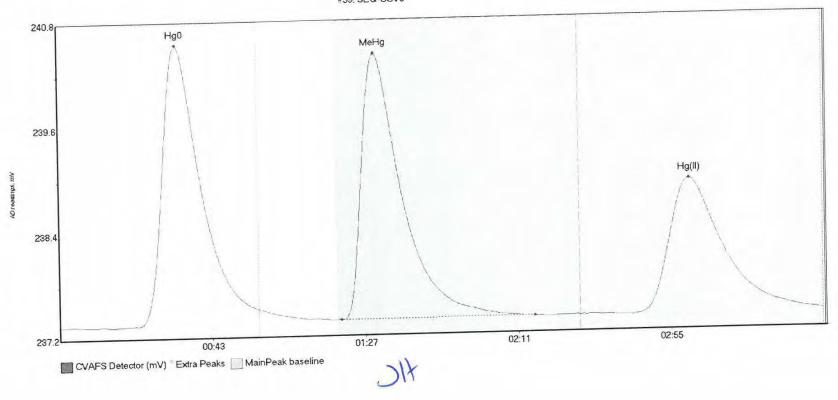
Name	Area	Start Time	EndTime 57.5	StartValue	EndValue 237.44	Peak Max 34.4	PeakHeight 2.269	Flags CT	Baseline 237.3090		BlShift 0.08	Comment	016
SEO-CCV4 Hg0	269.921	20.1	31.3					15.00	000 0000	0 00	0 00		270
	AEE 204	81.5	134.9	237.36	237.35	91.7	3.400	OK	237.3090	0.00	0.08		
SEQ-CCV4 MeHg	455.294	01.5			20.00			OM	237.3090	0 00	0.08		
SEO-CCV4 Ha(II)	315.371	165.2	219.8	237.34	237.38	181.9	1.781	CT	237.3090	0.00	0.00		

#58: SEQ-CCB4



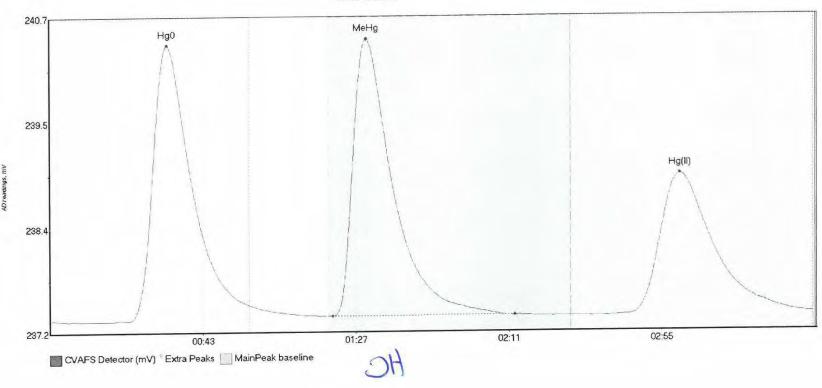
Name SEQ-CCB4 Hg0 SEQ-CCB4 MeHg SEO-CCB4 Hg(II)	Area 12.985 5.373 41.996	Start Time 18.7 84.5 166.6	EndTime 54.6 107.2 217.1	StartValue 237.31 237.33 237.32	EndValue 237.32 237.33 237.34	Peak Max 33.9 90.8 181.6	PeakHeight 0.096 0.048 0.231	Flags OK OK	Baseline 237.3098 237.3098 237.3098	BlDev 0.00 0.00 0.00	B1Shift 0.03 0.03 0.03	Comment	016
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#59: SEQ-CCV5



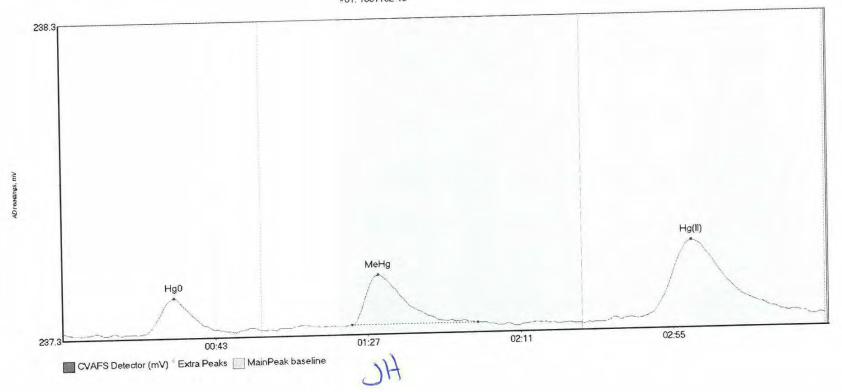
Name SEQ-CCV5 Hg0 SEQ-CCV5 MeHg SEQ-CCV5 Hg(II	Area 393.029 413.962) 277.801	Start Time 22.5 81.0 165.0	EndTime 57.5 136.8 219.8	StartValue 237.32 237.36 237.35	EndValue 237.49 237.36 237.39	Peak Max 34.0 91.2 181.4	PeakHeight 3.266 3.095 1.579	Flags CT OK CT	Baseline 237.3175 237.3175 237.3175	0.00 0.00 0.00	0.07 0.07 0.07	Commenc	316
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#60: SEQ-CCV6



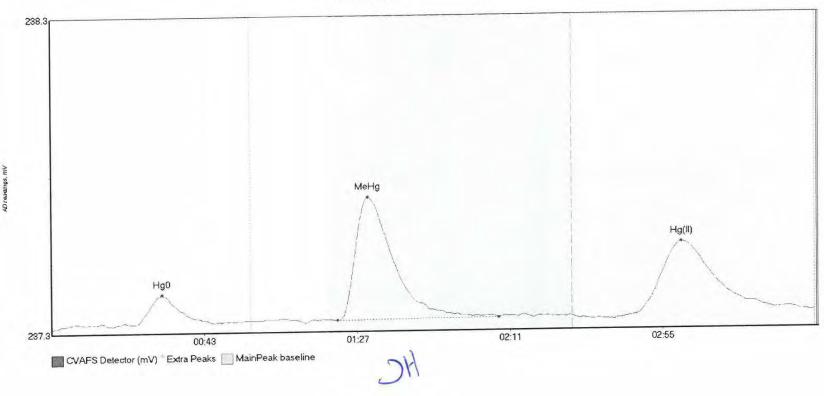
SEQ-CCV6 MeHg		Start Time 22.6 81.3 162.7	EndTime 57.5 133.7 219.8	StartValue 237.32 237.36 237.36	EndValue 237.48 237.36 237.39	Peak Max 33.8 91.1 181.3	PeakHeight 3.080 3.095 1.584	Flags CT OK CT	Baseline 237.3254 237.3254 237.3254	BlShift 0.06 0.06 0.06	Comment	016
SEO-CCV6 Hg(II)	211.428	162.7	219.0	237.30	201.00							

#61: 1607782-15



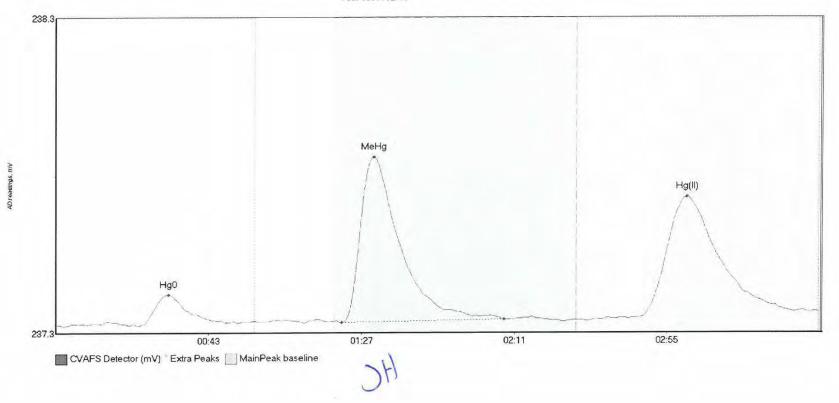
Name 1607782-15 Hg0 1607782-15 MeHd 1607782-15 Hg(10.240	Start Time 23.1 83.5 156.4	EndTime 43.8 119.6 217.0	StartValue 237.32 237.34 237.33	EndValue 237.33 237.34 237.34	Peak Max 32.3 91.2 181.3	PeakHeight 0.112 0.159 0.254	Flags OK OK OK	Baseline 237.3259 237.3259 237.3259	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	316
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#62: 1607782-16



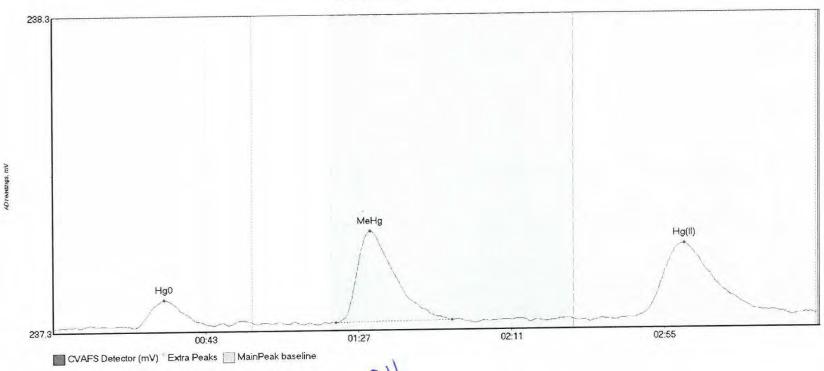
Name 1607782-16 Hg0 1607782-16 MeHg 1607782-16 Hg(I	49.593	82.3	EndTime 47.1 128.8 218.7	StartValue 237.32 237.33 237.34	EndValue 237.33 237.34 237.35	Peak Max 31.8 91.2 181.5	PeakHeight 0.102 0.391 0.234	Flags OK OK OK	Baseline 237.3147 237.3147 237.3147	BlDev 0.00 0.00 0.00	BlShift 0.04 0.04 0.04	Comment	316
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#63: 1607782-17



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607782-17 Hg0	10.382	23.7	52.4	237.33	237.34	32.6	0.099	OK	237.3305	0.00	0.04		016
1607782-17 MeHg			129.0	237.34	237.35	91.6	0.525	OK	237.3305	0.00	0.04		270
1607782-17 Hg (I			217.5	237.35	237.37	181.8	0.388	OK	237.3305	0.00	0.04		





211

Name		Area
1607782-18	Hg0	9.155
1607782-18	МеНд	35.891
1607782-18	Hg(I	39.378

Start	Time	EndTime
23.5		46.4
81.5		114.9
164.8		212.8

StartValue	EndValu
237.34	237.34
237.35	237.35
237.36	237.36

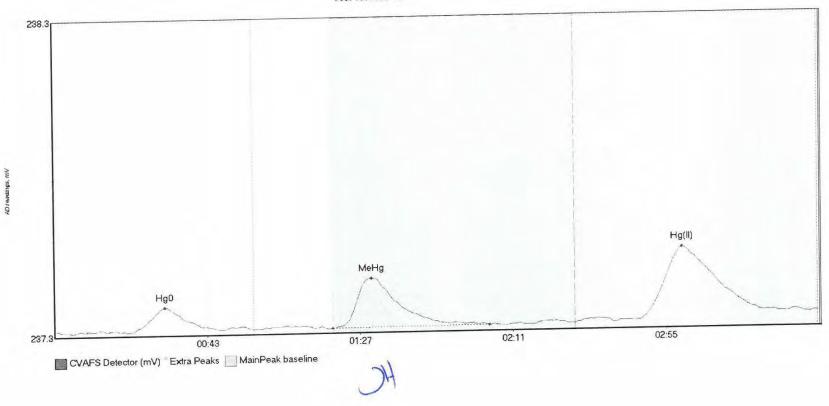
Peak Max 32.2
91.5
181.7

×	PeakHeight	Flags
	0.089	OK
	0.290	OK
	0.235	OK

Baseline	BlDe
237.3365	0.00
237.3365	0.00
237.3365	0.0

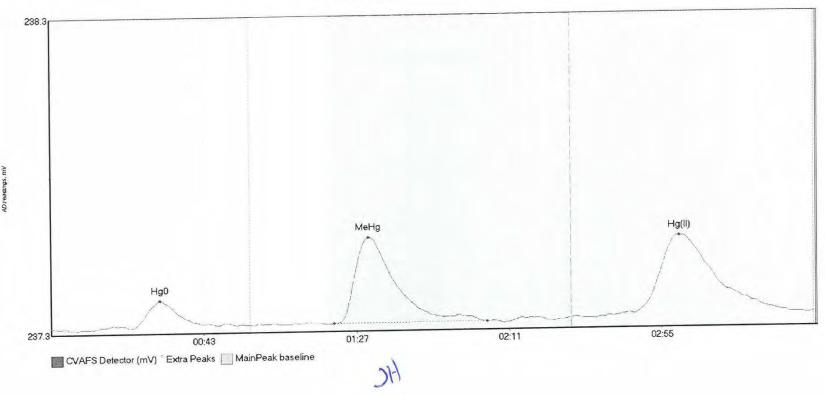
BISH
0.0
0.0
0.0

#65: 1607782-19



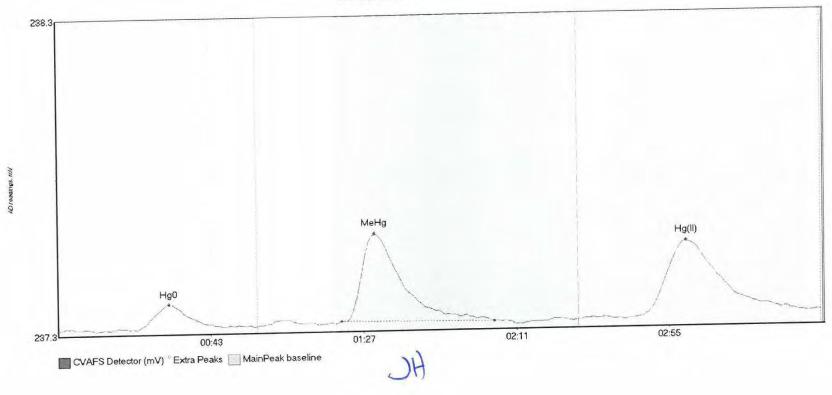
Name 1607782-19 Hg0 1607782-19 MeHg 1607782-19 Hg(I	22.189	80.1	EndTime 46.8 125.1 217.6	StartValue 237.34 237.35 237.36	EndValue 237.35 237.35 237.38	Peak Max 31.8 91.5 180.8	PeakHeight 0.078 0.158 0.230	Flags OK OK OK	Baseline 237.3502 237.3502 237.3502	B1Dev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
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#66: 1607782-20



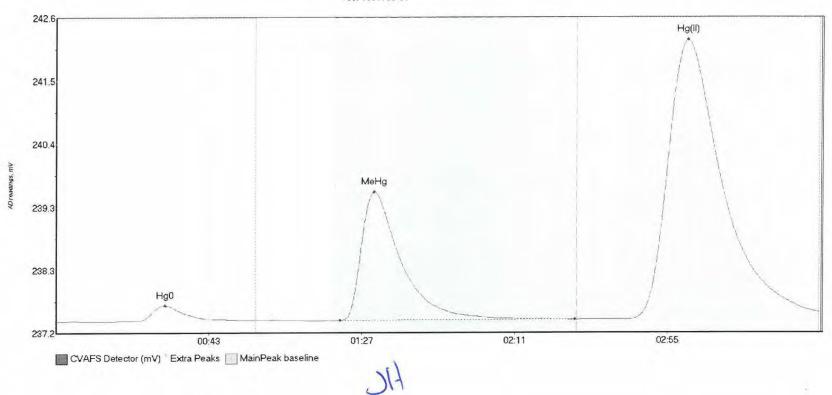
Name 1607782-20 Hg0 1607782-20 MeHg 1607782-20 Hg(I	37.361	Start Time 23.7 81.4 163.2	EndTime 47.7 125.6 218.4	StartValue 237.36 237.36 237.38	EndValue 237.36 237.36 237.38	Peak Max 31.5 91.4 181.0	PeakHeight 0.086 0.273 0.250	Flags OK OK OK	Baseline 237.3564 237.3564 237.3564	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016	
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#67: 1607782-21



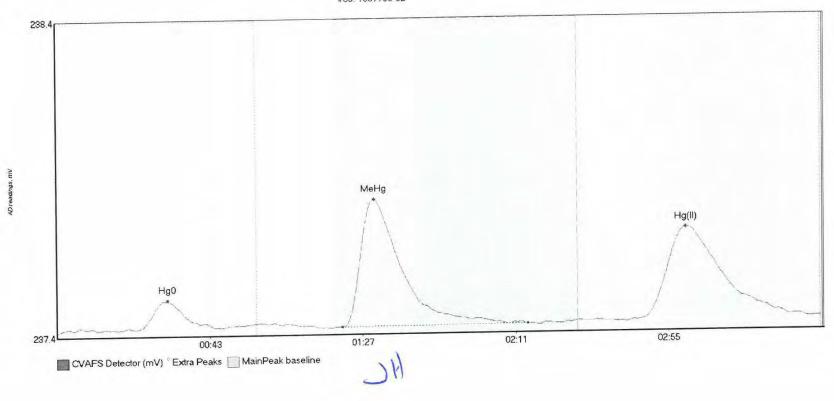
Name Area 1607782-21 Hg0 9.13 1607782-21 MeHg 37.2 1607782-21 Hg(I 41.4	38 22.8 233 81.8	ime EndTime 56.8 125.6 216.1	StartValue 237.37 237.38 237.38	EndValue 237.37 237.38 237.39	Peak Max 32.0 91.3 181.0	PeakHeight 0.080 0.276 0.239	Flags OK OK OK	Baseline 237.3654 237.3654 237.3654	0.00 0.00 0.00	0.03 0.03 0.03	Commenc	016
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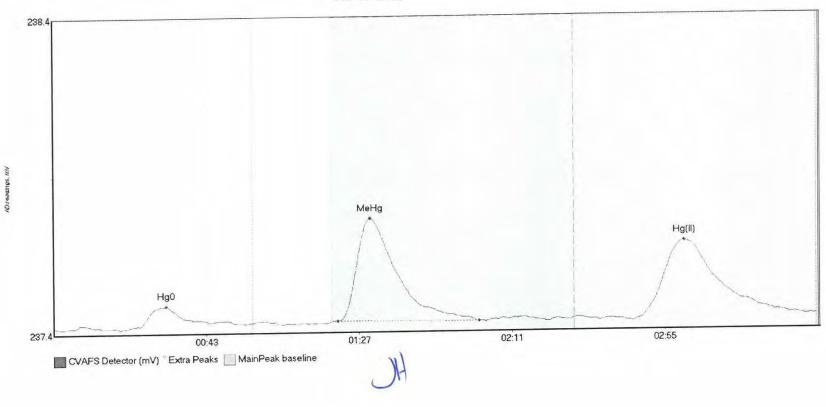
Name	Area	Start Time	e EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607783-01 Hg0	29.032	16.2	57.5	237.37	237.38	31.6	0.271	CT	237.3692	0.00	0.16		016
1607783-01 MeHo	293.898	81.8	149.5	237.38	237.39	91.6	2.204	OK	237.3692	0.00	0.16		310
1607783-01 Hg(I			219.8	237.40	237.52	181.8	4.795	CT	237.3692	0.00	0.16		

#69: 1607783-02



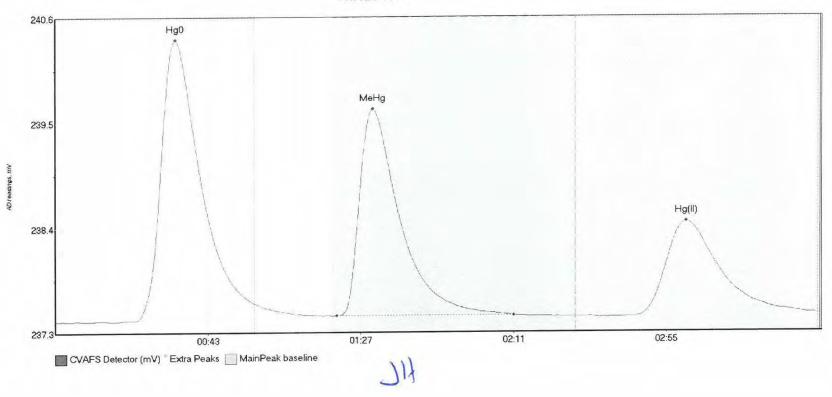
Name 1607783-02 Hg0 1607783-02 MeHg	54.694	Start Tim 18.3 82.1 167.1	ne EndTime 47.3 135.4 216.2	StartValue 237.39 237.39 237.41	EndValue 237.40 237.40 237.41	Peak Max 31.9 91.5 181.0	PeakHeight 0.092 0.404 0.292	Flags OK OK OK	Baseline 237.3879 237.3879 237.3879	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
1607783-02 Hg(I	52.319	167.1	210.2	237.11									

#70: 1607783-03



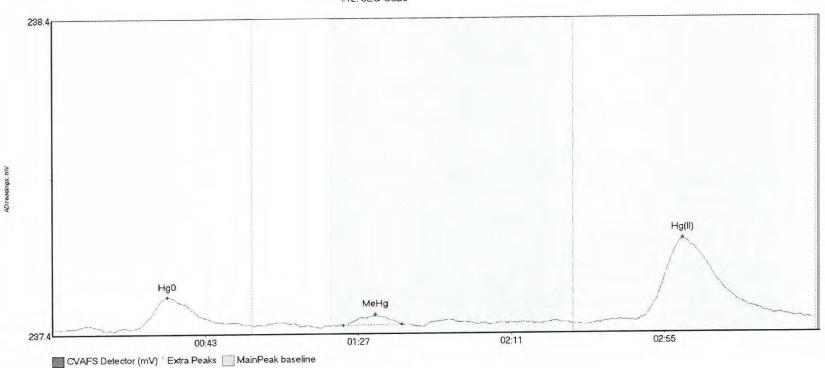
Name 1607783-03 Hg0 1607783-03 MeH- 1607783-03 Hg(43.298	Start Time 24.9 81.9 167.3	EndTime 55.1 122.6 216.8	StartValue 237.40 237.41 237.41	EndValue 237.41 237.41 237.42	Peak Max 32.6 91.3 181.6	PeakHeight 0.062 0.326 0.253	Flags OK OK OK	Baseline 237.3987 237.3987 237.3987	BlDev 0.00 0.00 0.00	BlShift 0.03 0.03 0.03	Comment	016
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#71: SEQ-CCV7



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline		BIShift	Comment	
SEQ-CCV7 Hg0			57.5		237.60	34.7	2.991	CT	237.4097	0.00	0.08		016
SEQ-CCV7 MeHg		81.1	132.0	237.47	237.47	91.6	2.199	OK	237.4097	0.00	0.08		
SEQ-CCV7 Heng		167.2	219.8	237.45	237.49	181.8	1.010	CT	237.4097	0.00	0.08		

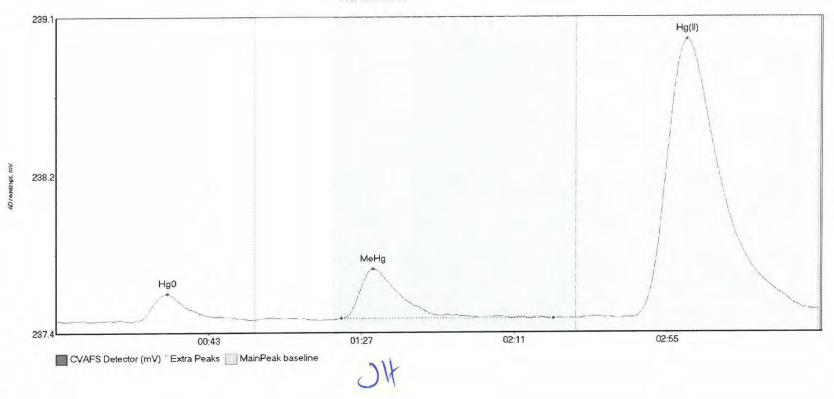
#72: SEQ-CCB5





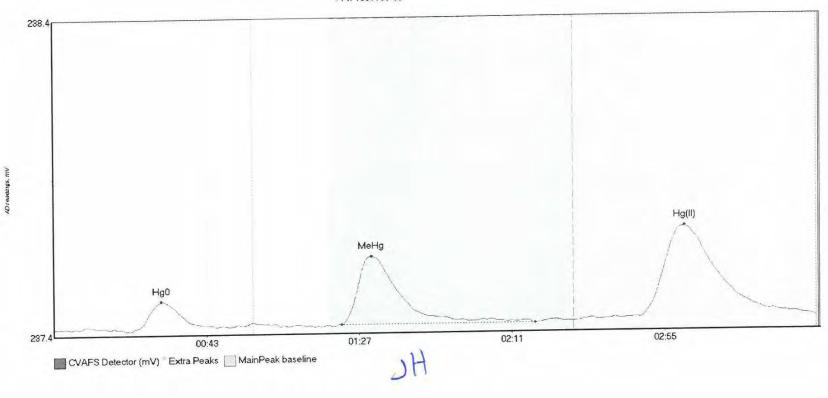
SEQ-CCB5 Hg0 12.855 24.1 57.5 237.44 237.44 33.2 0.100 C1 237.4333 0.00 0.03 SEQ-CCB5 MeHg 2.905 83.8 100.6 237.44 237.45 93.0 0.033 OK 237.4333 0.00 0.03 SEQ-CCB5 Hg(II) 47.353 157.6 219.3 237.45 237.46 181.3 0.266 OK 237.4333 0.00 0.03	ment	Comme	.03		0.00	237.4333	CT OK		33.2 93.0	237.44 237.45		57.5 100.6	3.8	2.905	SEQ-CCB5 MeHg
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#73: 1607783-04



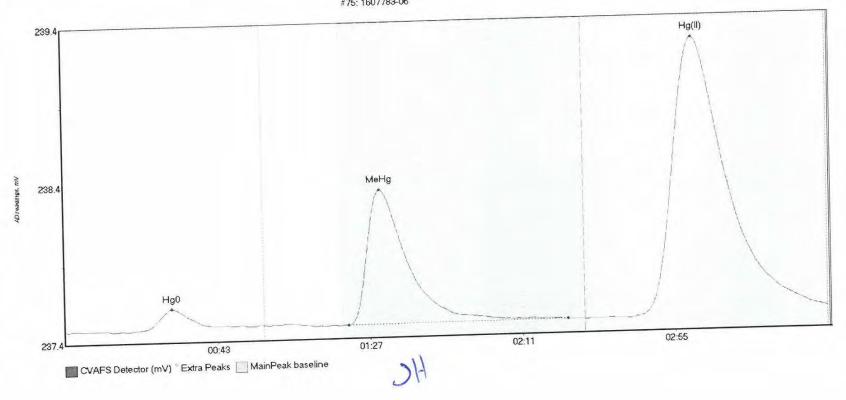
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline		BlShift	Comment	
1607783-04 Hg0	16.457	23.6	55.5	237.45	237.46	32.3	0.143	OK	237.4522	0.00	0.06		016
1607783-04 MeHo		82.3	143.4	237.46	237.46	91.5	0.267	OK	237.4522	0.00	0.06		310
1607783-04 Hg(I		165.8	219.2	237.47	237.51	181.6	1.490	OK	237.4522	0.00	0.06		

#74: 1607783-05



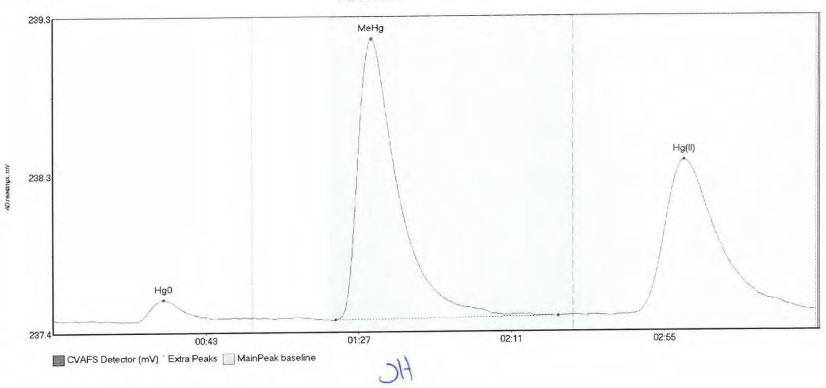
Name Area 1607783-05 Hg0 8.980 1607783-05 MeHg 30.43: 1607783-05 Hg(I 52.75:	83.0	EndTime 46.8 138.8 219.8	StartValue 237.46 237.48 237.49	EndValue 237.47 237.48 237.49	Peak Max 31.2 91.6 181.7	PeakHeight 0.095 0.217 0.294	Flags OK OK CT	Baseline 237.4686 237.4686 237.4686	BlDev 0.00 0.00 0.00	BlShift 0.02 0.02 0.02	Comment	216
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#75: 1607783-06



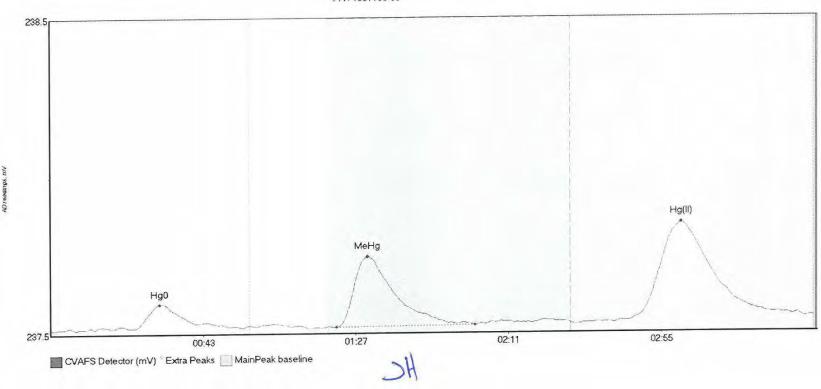
Name Area Start Time EndTime StartValue EndValue Peak Max Peak 1607783-06 Hg0 12.700 22.1 53.0 237.48 237.49 30.9 0.12 1607783-06 MeHg 113.822 81.9 145.0 237.49 237.49 91.2 0.84 1607783-06 Hg(I 309.868 163.2 219.8 237.49 237.54 181.5 1.76	9 OK 237.480	7 0.00 7 0.00	0.06 0.06 0.06		016
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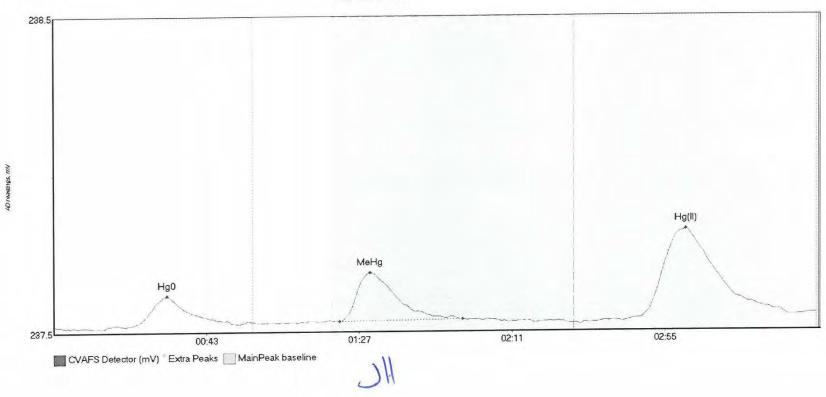
Name Area 1607783-07 Hg0 12.3 1607783-07 MeHg 220. 1607783-07 Hg(I 159.	93 23.7 249 81.5	e EndTime 46.6 145.6 219.8			31.9 91.7 181.7	0.128 1.642 0.902	OK OK CT	237.4974 237.4974 237.4974	0.00	0.04 0.04 0.04	Commerce	016
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#77: 1607783-08



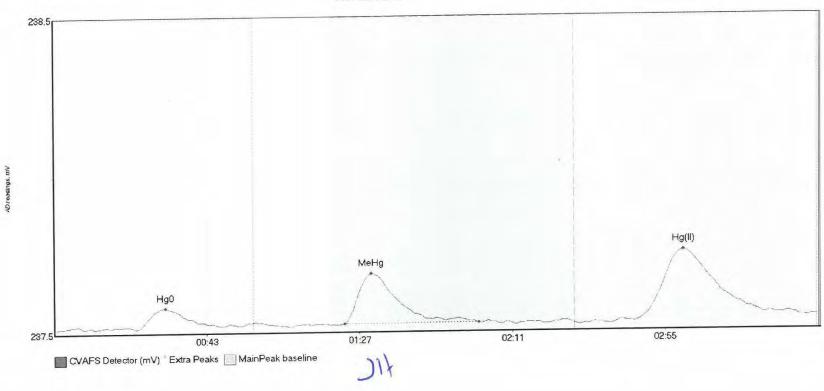
Name 1607783-08 Hg0 1607783-08 MeH 1607783-08 Hg(29.671	Start Time 24.0 82.6 162.3	EndTime 55.5 122.3 217.3	StartValue 237.51 237.51 237.52	EndValue 237.51 237.51 237.54	Peak Max 31.5 91.5 181.8	PeakHeight 0.077 0.223 0.316	Flags OK OK OK	Baseline 237.5024 237.5024 237.5024	0.00 0.00 0.00	BlShift 0.04 0.04 0.04	Comment	016
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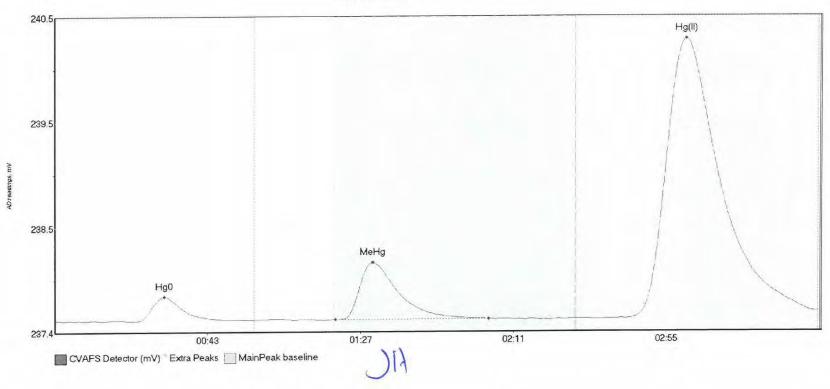
Name 1607783-09 Hg0 1607783-09 MeHg 1607783-09 Hg(I	19.884	Start Time 22.6 82.5 156.4	EndTime 53.3 117.8 212.2	StartValue 237.53 237.54 237.53		Peak Max 32.7 91.2 182.0	PeakHeight 0.094 0.156 0.293	Flags OK OK OK	237.5270	0.00	0.04 0.04 0.04	Comment	016
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#79: 1607783-10



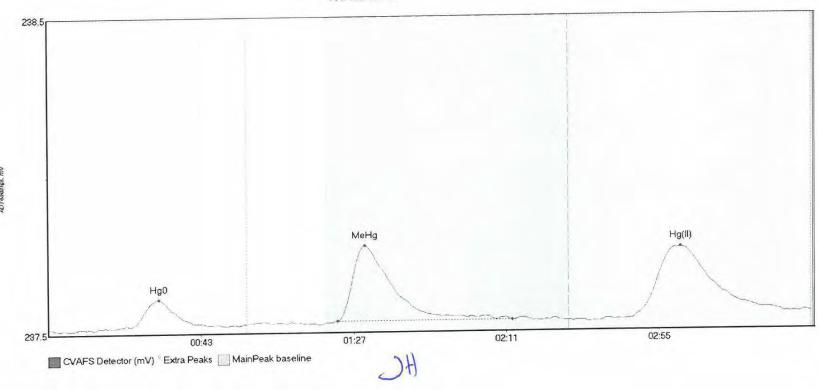
Name 1607783-10 Hg0 1607783-10 MeHg 1607783-10 Hg(I	20.750	Start Time 23.7 83.7 160.5	EndTime 53.8 122.3 217.0	StartValue 237.55 237.56 237.55	EndValue 237.55 237.56 237.57	Peak Max 32.1 91.4 181.3	PeakHeight 0.066 0.160 0.231	Flags OK OK OK	Baseline 237.5431 237.5431 237.5431	0.00 0.00 0.00	0.03 0.03 0.03	Comment	016
100//83-10 mg(1	40.471	100.5											





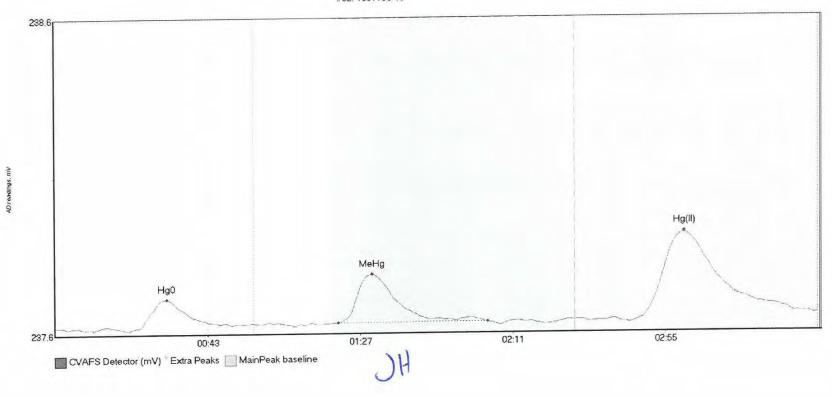
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
1607783-11 Hg0		23 6	49.2	237.56	237.56	31.6	0.231	OK	237.5597	0.00	0.08		316
1607783-11 Mg0		80.8	124.9		237.57	91.6	0.545	OK	237.5597	0.00	0.08		310
1607703-11 Heng		165 3	219.7	237.57	237.64	181.7	2.672	OK	237.5597	0.00	0.08		

#81: 1607783-12



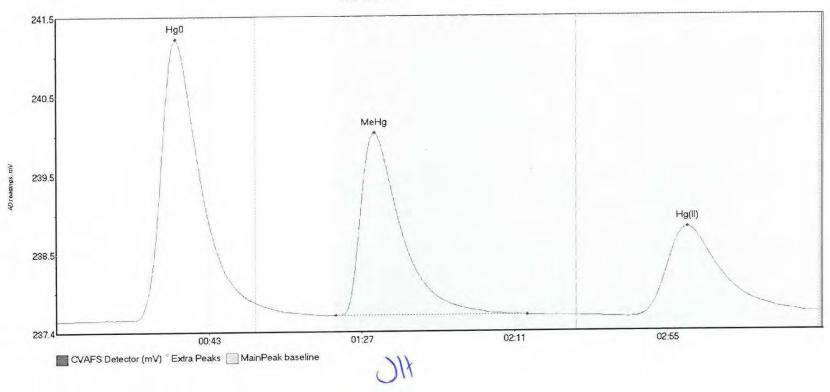
Name 1607783-12 Hg0 1607783-12 MeHg	31.760	21.1 83.3	51.7 133.7	StartValue 237.57 237.58	237.57 237.58	31.8 91.3	PeakHeigh 0.087 0.239 0.226	t Flags OK OK OK	Baseline 237.5655 237.5655 237.5655	BlDev 0.00 0.00 0.00	BlShift 0.04 0.04 0.04	Comment	016
1607783-12 Hg(I		167.3	213.9	237.58	237.60	182.3	0.226	OK	237.3033	0.00	0.01		

#82: 1607783-13



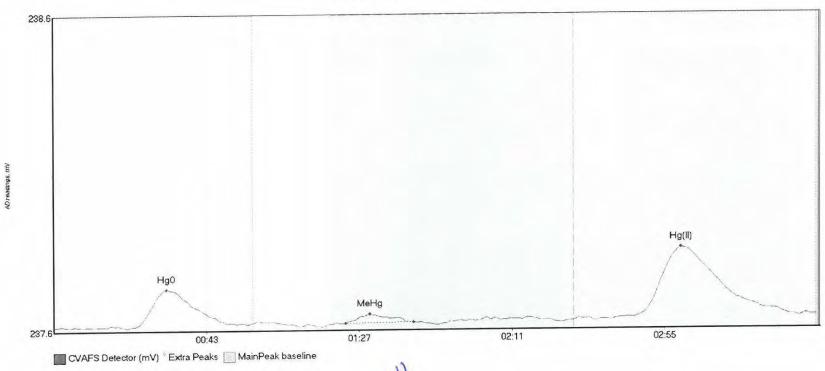
Name Area 1607783-13 Hg0 9.819 1607783-13 MeHg 19.864 1607783-13 Hg(I 52.487	Start Time 24.0 81.8 165.5	EndTime 51.0 124.7 218.8	StartValue 237.58 237.60 237.59	EndValue 237.59 237.60 237.62	Peak Max 32.1 91.5 181.4	PeakHeight 0.091 0.154 0.285	Flags OK OK OK	Baseline 237.5866 237.5866 237.5866	0.00	BlShift 0.03 0.03 0.03	Comment	016
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#83: SEQ-CCV8



	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline		BlShift	Comment	
Name		6.8	57.5		237.82	34.4	3.650	CT	237.5950	0.00	0.09		016
SEQ-CCV8 Hg0			135.7	237.66	237.66	91.7	2.375	OK	237.5950	0.00	0.09		
SEQ-CCV8 MeHg			218.1	237.64	237.68	181.8	1.157	OK	237.5950	0.00	0.09		
SEO-CCV8 Hg(II)	204.505	166.9	210.1	231.01	237.00	101.0							





SIF

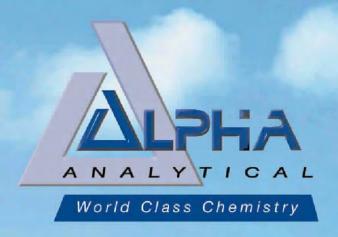
Name SEQ-CCB6 Hg0 SEQ-CCB6 MeHg SEQ-CCB6 Hg(II)		Start Time 23.7 84.1 164.3	EndTime 55.8 103.7 214.8	StartValue 237.62 237.63 237.64	EndValue 237.63 237.63 237.65	Peak Max 32.6 91.1 180.7	PeakHeight 0.117 0.029 0.222	Flags OK OK OK	Baseline 237.6219 237.6219 237.6219	0.00 0.00 0.00	0.03 0.03 0.03	Comment	016
SEQ-CCB6 Hg(11)	41.567	104.3	214.0	237.01	201100	-							

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2015 Rev 5 (08/06/2015)

nalyst: deviewer: Date: datch #(s):	Ryan Nelson Jeanel Herr F608273, F608155	el	Sequence #: Dataset ID #: WO #: Client(s):		6H12010, MHg27001 Vari	-160816-1 ous	याहा है स	
	the correct preparation	on method.	chenicoj.	Additional Comments				
	Prep							
Analyte	Method	Matrix						
✓ MHg	FGS-013 MHg Distillation KOH/MeOH	Water						
☐ MHg	FGS-010 Digest	Tissue						
MHg	FGS-045 MeCl Extraction	Sed/Soil						
☐ DMHg	FGS-098 (None Accredited method)	ALL						
					Analyst In	itials:	Reviewer	Initials:
Compare S	ample ID with Bench she	eet/Seauence	/Raw Data (Have all s	amples been imported?)	✓ YES	□ NO		9
	ranscription errors from				✓ YES	□ NO		
	er: 100% of peak height				YES	□ NO		
	re peak height errors?	2020/2017/201			YES	NO	-	
	n a sample: Do peak hei	iahts, respons	ses. & initial results m	atch corrected data?	YES	□ NO	N/A	
	n a Cal Pt, ICB/CCB, or l				YES	□ NO	☐ N/A	P
	standards & reagents in				YES	☐ NO	☐ N/A	2
	and compare masses (rev				YES	□ NO	□ N/A	
	and compare initial and f				✓ YES	☐ NO	□ N/A	
	uots and dilutions writte			ccel?	✓ YES	□ NO	□ N/A	
	H>3.0 for all distilled sa		icat materi triosa m =		✓ YES	□ NO	□ N/A	
	equence #, analyst, date		ment # on the OC pag	e?	✓ YES	□ NO		
	analysis status correct? (✓ YES	☐ NO		
	prep bench sheet added				✓ YES	□ NO		
100	sheet prep date MUST m			shot vs re-extract)	₹ YES	□ NO		
3. High QA?	WO#(s)/9		nep date (elleck ii le	Shoc to to extraory	YES	✓ NO		
	cific QC? (if Yes, refer to		-/LIMS)		✓ YES	□ NO		
20 00 00 00 00 00 00	he QC requirements bee				✓ YES	□ NO		
- Carlo dado o	er samples in batch?	in met for an	WO#3:		✓ YES	□ NO		
			/MD per hatch?		✓ YES	□ NO		
	1 LCS/LCSD (or BS/BSD and 1 CCB every 10 ana		FID per batters		✓ YES	□ NO		
		nytical rulis!						
QA/QC Data	а спескео ation curve included a m	inimum of E	Standards		✓ PASS	FAIL	□ N/A	
		minimum or 3	Standards					
Comment		orioc (65 135	06)		✓ PASS	FAIL	□ N/A	
	ation Standard % Recove	ELIE2 (03-133	74)					
	S:				✓ PASS	FAIL		
8. RSD CF (5	× 10%)							

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2013 Rev 4 (08/22/2013) Sequence #: 6H12010, 6H12011 Analyst: Ryan Nelson MHg27001-160815-1 Dataset ID #: Reviewer: Jegnre WO #: Various Date: 8/15/2016 Client(s): NA F608273, F608155 Batch #(s): **Analyst Initials: Reviewer Initials:** PASS FAIL 9. ICV % Recoveries 67-133% Comments: PASS FAIL 10. CCV % Recoveries 67-133% Comments: CCV4 failed. Investigated and both passed. PASS FAIL 11. Are the absolute value of the ICB and CCBs < PQL? Comments: ✓ PASS FAIL 12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%) Comments: PASS ✓ FAIL 13. LCS/LCSD or BS/BSD RPD (< 25%) Comments: QR-07 N/A ✓ PASS FAIL 14. Water: Average of Preparation Blanks < 0.045 ng/L and standard devaition of 0.015 ng/L? N/A J PASS FAIL 15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix? FAIL PASS ☐ NO V YES ☐ N/A 16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done) □ NO ✓ YES 17. Is the correct 'Source' designated for MD/MS/MSD? ON O N/A 18. For digested preps: was there a spike witness signature & date on the prep bench sheet? ✓ YES ✓ PASS ✓ FAIL 19. MD RPD/MT RSD(< 35%) Comments: FAIL ✓ PASS 20. Is there one set of MS/MSD per every 10 samples? Comments: FAIL V PASS 21. MS/MSD RPD(< 35%) Comments: ✓ FAIL 4 PASS 22. MS (AS) % Recoveries (65-130%) Comments: PASS FAIL 23. MSD (ASD) % Recoveries (65-130%) Comments: YES V NO 24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630) □ NO ✓ YES 25. Are all samples within instrument calibration range (or at maximum aliquot size)? Comments: NO ✓ N/A PASS 26. For instrumental dilutions, is the dilution factor in excel correct? ✓ N/A □ NO PASS Is the sample volume, diluents, and final volume of the dilution noted on benchsheet? PASS ✓ N/A □ NO 27. Dissolved < Total metals (if applicable) Comments: PASS ✓ N/A NO 28. Effluent < Influent metals (visually confirm if needed) Comments:

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2013 Rev 4 (08/22/2013) Analyst: Sequence #: 6H12010, 6H12011 Ryan Nelson Reviewer: Dataset ID #: MHg27001-160815-1 0 realine 11C 8/9/1 Date: 8/15/2016 WO #: Various Batch #(s): F608273, F608155 Client(s): NA **Analyst Initials: Reviewer Initials:** YES ☐ NO ✓ N/A 29. Are re-runs noted with reason? Comments: ✓ YES ☐ NO ☐ N/A 30. For failing QC (CCV, CCB, PB, BS/BSD, CAL): Was a bubbler and trap test run before the analytical run continued? Comments: ccv4 ☐ NO YES V N/A 31. Do re-run results compare to initial analysis (< 35% RPD)? Comments: YES NO NO ✓ N/A 32. Are qualifiers consistent with the data review flowcharts? Comments: YES ☐ NO ✓ N/A 33. Have non-reportable samples been imported into LIMS and clicked to non-reportable? YES ☐ NO ✓ N/A 34. Have re-extracts been created for non-reportable samples? 35. Narrations in MMO box in LIMS? Comments: YES ✓ NO 36. Are there any HIGH QA projects within the data? If so, place dataset to the QA office. V YES □ N/A 37. Does the data set need scanning? Files located at: \Cuprum\gen admin\Quality Assurance\Training Master\DOCs \\ \lambda \frac{1}{2.1/16} \\ \frac{311}{31} \\ \frac{872116}{31} \\ \frac{1}{31} ✓ YES ☐ NO 38. Date of analyst IDOC/CDOC: 6/8/2016 Current SOP revision? ✓ YES NO NO 39. Date of analyst's SOP reading: 4/21 -6/16 LOD within last 3 months (within 12 months for MDN)? ✓ YES ON [1 ☐ N/A 40. Date of LOD: 4/21 - 6/40 LOQ within last 3 months (within 12 months for MDN)? ✓ YES D □ NO N/A 41. Date of LOQ: 42. If MDN samples, date of last MDL study; YES NO NO V N/A 43. MDL study within last 12 months? Data can not be reported without a current IDOC/CDOC, LOD or LOQ. Additional Comments: YES NO.



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Lab Number: L1622656

Client: AMEC Foster Wheeler E & I, Inc.

ATTN: Rod Pendleton

Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052

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Sample Delivery Group Information





Sample Delivery Group Form

Laboratory Job number: L1622656

Project Manager: Elizabeth Porta Review Date: 07/26/2016

Project Number: 3616166052

Project Name: PENOBSCOT RIVER ESTUARY Received: 07/21/2016 11:30

Client Account: AMEC Foster Wheeler E & I, Inc. Received by: GP/RM

Samples Delivered by: FEDEX Call Tracker #

Bill Of Laden N/A Trackingnum 809405619691

Coc Present Present

Container Status Intact Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt 7 Are samples Properly Preserved? Yes

Initial pH preserved in house with Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOHCovering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Delivered Direct from **Blue Ice** Frozen Site upon Receipt **Present Present** Cooler Seal Temp. (Celsius) Absent Nο Nο 10.2 - IR Gun No Nο Α

LIMS Chain of Custody



ALPHA ANALYTICAL LABORATORIES, INC. LOGIN CHAIN OF CUSTODY REPORT Jul 28 2016, 04:27 pm

Login Number: L1622656

Account: AMEC-ME AMEC Foster Wheeler E & I, Inc.Project: 3616166052

Sample #	Client ID	Received: 21JUL16 Mat PR Collected	Due Date: 28JUL16 Container
	OV-02_071816_SW_10Package Due Date:	0 1 SO 18JUL16 07:45 07/28/16	1-Plastic-A1,2-Vial-D
DOC-9060,DPK	G-FULL,TSS-2540		
	WQ1B-C_071816_SW_3 Due Date: 07/28/16	l0 1 S0 18JUL16 16:30) 1-Plastic-A1,2-Vial-D
DOC-9060,TSS	5-2540		
	WQ2-C_071816_SW_10 Due Date: 07/28/16) 1 SO 18JUL16 15:15	1-Plastic-A1,2-Vial-D
DOC-9060,TSS	3-2540		
	WQ3-L_071816_SW_10 Due Date: 07/28/16) 1 SO 18JUL16 14:00	1-Plastic-A1,2-Vial-D
DOC-9060,TSS	5-2540		
	ES-15_071816_SW_10 Due Date: 07/28/16) 1 SO 18JUL16 13:15	1-Plastic-A1,2-Vial-D
DOC-9060,TSS	3-2540		
		l0	
DOC-9060,MS/	MSD,TSS-2540		
	WQ-ECH_071816_SW_3 Oue Date: 07/28/16	l0 1 S0 18JUL16 12:00) 1-Plastic-A1,2-Vial-D

Page 1

ALPHA ANALYTICAL LABORATORIES, INC. LOGIN CHAIN OF CUSTODY REPORT Jul 28 2016, 04:27 pm

Login Number: L1622656

Account: AMEC-ME AMEC Foster Wheeler E & I, Inc.Project: 3616166052

Due Date: 28JUL16 Container

Received: 21JUL16 Mat PR Collected Sample # Client ID

DOC-9060,TSS-2540

L1622656-08 WQ-FPT_071816_SW_10 1 S0 18JUL16 11:00 1-Plastic-A1,2-Vial-D

Package Due Date: 07/28/16

DOC-9060,TSS-2540

Page 2

Logged By: Elizabeth Ryan

Container Tracking



ALPHA ANALYTICAL LABORATORIES Container Tracking Report

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1622656-01A Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Deb Whelan
L1622656-01A Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-01A Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-01A Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-01B Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Deb Whelan
L1622656-01B Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-01B Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-01B Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-01C Plastic-A1	EMPTY	25-JUL-16	CUSTODY	WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1622656-01C Plastic-A1	INTACT	25-JUL-16	CUSTODY	CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1622656-01C Plastic-A1	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-02A Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Deb Whelan
L1622656-02A Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-02A Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-02A Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-02B Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Deb Whelan
L1622656-02B Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-02B Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-02B Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-02C Plastic-A1	EMPTY	25-JUL-16	CUSTODY	WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1622656-02C Plastic-A1	INTACT	25-JUL-16	CUSTODY	CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1622656-02C Plastic-A1	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-03A Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Deb Whelan
L1622656-03A Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-03A Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1622656-03A Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-03B Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Poeb Whelan
L1622656-03B Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTODY	Y Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-03B Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-03B Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-03C Plastic-A1	EMPTY	25-JUL-16	CUSTODY	WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1622656-03C Plastic-A1	INTACT	25-JUL-16	CUSTODY	CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1622656-03C Plastic-A1	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-04A Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Y Deb Whelan
L1622656-04A Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTODY	Y Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-04A Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-04A Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-04B Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Z Deb Whelan
L1622656-04B Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTODY	Y Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-04B Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-04B Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-04C Plastic-A1	EMPTY	25-JUL-16	CUSTODY	WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1622656-04C Plastic-A1	INTACT	25-JUL-16	CUSTODY	CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1622656-04C Plastic-A1	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-05A Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Y Deb Whelan
L1622656-05A Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTODY	Y Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-05A Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-05A Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-05B Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Programme Progra
L1622656-05B Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTODY	Y Deb Whelan	WETCHEM	WETCHEM	Deb Whelan

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1622656-05B Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-05B Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-05C Plastic-A1	EMPTY	25-JUL-16	CUSTODY	WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1622656-05C Plastic-A1	INTACT	25-JUL-16	CUSTODY	CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1622656-05C Plastic-A1	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-06A Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Deb Whelan
L1622656-06A Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTOD	Y Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-06A Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-06A Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-06A1 Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTOR	Y Deb Whelan
L1622656-06A1 Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTO	DY Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-06A1 Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTOR	Y Christina Mazza
L1622656-06A1 Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-06A2 Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTOR	Y Deb Whelan
L1622656-06A2 Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTO	DY Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-06A2 Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTOR	Y Christina Mazza
L1622656-06A2 Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-06B Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Deb Whelan
L1622656-06B Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTOD	Y Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-06B Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-06B Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-06B1 Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTOR	Y Deb Whelan
L1622656-06B1 Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTO	DY Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-06B1 Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTOR	Y Christina Mazza
L1622656-06B1 Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1622656-06B2 Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTO	DY Deb Whelan
L1622656-06B2 Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTO	DY Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-06B2 Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTO	DY Christina Mazza
L1622656-06B2 Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-06C Plastic-A1	INTACT	25-JUL-16		RETURN WALK-IN	CUSTODY Fred Ababio	W7-S2-D (CUSTODY W7-S2-D	CUSTODY Fred Ababio
L1622656-06C Plastic-A1	INTACT	25-JUL-16	CUSTODY	WETCHEM	Samantha Garner	RETURN WALK-IN	CUSTODY RETURN	WALK-IN CUSTODY Samantha Garner
L1622656-06C Plastic-A1	INTACT	25-JUL-16	CUSTODY	CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1622656-06C Plastic-A1	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-06C1 Plastic-A1	EMPTY	25-JUL-16	CUSTODY	WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1622656-06C1 Plastic-A1	INTACT	25-JUL-16	CUSTODY	CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1622656-06C1 Plastic-A1	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-06C2 Plastic-A1	INTACT	25-JUL-16		RETURN WALK-II	N CUSTODY Fred Ababio	W7-S2-D	CUSTODY W7-S2-	CUSTODY Fred Ababio
L1622656-06C2 Plastic-A1	INTACT	25-JUL-16	CUSTODY	WETCHEM	Samantha Garner	RETURN WALK-IN	CUSTODY RETURN	WALK-IN CUSTODY Samantha Garner
L1622656-06C2 Plastic-A1	INTACT	25-JUL-16	CUSTODY	CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1622656-06C2 Plastic-A1	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-07A Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTOD	Y Deb Whelan
L1622656-07A Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTOD	Y Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-07A Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTOD	Y Christina Mazza
L1622656-07A Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-07B Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTOD	Y Deb Whelan
L1622656-07B Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTOD	Y Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-07B Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTOD	Y Christina Mazza
L1622656-07B Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-07C Plastic-A1	EMPTY	25-JUL-16	CUSTODY	WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1622656-07C Plastic-A1	INTACT	25-JUL-16	CUSTODY	CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1622656-07C Plastic-A1	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-08A Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Deb Whelan
L1622656-08A Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-08A Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-08A Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-08B Vial-D	INTACT	28-JUL-16	CUSTODY	WETCHEM	Deb Whelan	WALK-IN CUSTODY	WALK-IN CUSTODY	Deb Whelan
L1622656-08B Vial-D	INTACT	27-JUL-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1622656-08B Vial-D	INTACT	25-JUL-16	CUSTODY	CUSTODY	Christina Mazza	WALK-IN CUSTODY	WALK-IN CUSTODY	Christina Mazza
L1622656-08B Vial-D	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1622656-08C Plastic-A1	EMPTY	25-JUL-16	CUSTODY	WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1622656-08C Plastic-A1	INTACT	25-JUL-16	CUSTODY	CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1622656-08C Plastic-A1	INTACT	25-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read

Communications



Call Tracker Report

Call # 86042

Call #: 86042

Call Date: 07/21/16 15:14

Status: NEED

Date: 07/21/16 15:14

Operator: LPORTA

Type: Live

Contact: Denise King

Company: AMEC Foster Wheeler E & I, Inc.

Acct #: AMEC-ME

Project #: 3616166052

Client Proj: PENOBSCOT RIVER ESTUARY

Login #: L1622656

Call Details

```
King, Denise
2:02 PM (1 hour ago)
to me, Brad, Kendra, Julie
Hi Liz,
Yes please proceed with analysis.
Kendra,
Sounds like we need to ship with more ice or use the courier for future shipments.
Thanks,
Senior Environmental Chemist, Environment & Infrastructure, Amec Foster Wheeler
T +1 978 392 5339
M +1 508 789 1738
Denise.king@amecfw.com--
From: Liz Porta [mailto:eporta@alphalab.com]
Sent: Thursday, July 21, 2016 1:24 PM
To: King, Denise < Denise. King@amec.com>
Subject: Penobscot Samples Rec'd 7/21
Hi Denise,
We received samples for TSS and DOC via FedEx today and the cooler temp was 10.2C.
Would you like us to proceed?
Thank you,
```

Email: eporta@alphalab.com

Direct: 508-844-4124

Liz Porta

Project Manager

Chain of Custody



Chain Of Custody/Analysis Request Form

L1422456

USDC - Penobscot River

Lab: Alpha

AMEC, Suite 200, 511 Congress Street, Portland, ME Tech Lead - Louise Venne Work# 770-421-3461 Proj Chemist - Denise King 508-789-1738

AMEC Joh Number = 3616166052

Samp #	Sample Date	Sample Time	Field Sample ID	QC Code	Qty Total	Qty Eaci	1	Bottle Size and Material	Preservative	Media	Method	Fraction
1523	7/18/2016	7:45	OV-02_071816_SW_10		3							
				FS		1 1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T
				FS		2 40) ml	L Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	Ť
1524	7/18/2016	16:30	WQ1b-c_071816_SW_10		3							
				FS		2 40	ml	_ Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T
				FS		1 1	Ĺ	Plastic	4 deg C	sw	TSS (Mod 2450D)	Ŧ
1525	7/18/2016	15:15	WQ2-c_071816_SW_10		3							
				FS		2 40	ml	_ Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T
				FS		1 1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T
1526	7/18/2016	14:00	WQ3-L_071816_SW_10		3							
				FS		2 40	ml	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	Ŧ
				FS		1 1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T
1527	7/18/2016	13:15	ES-15_071816_SW_10		3							
				FS		2 40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T
				FS		1 1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T

Samp . #	Sample Date	Sample Time	Field Sample ID	QC Code	Qty Total	Qt Ea			Bottle Size and Material	Preservative	Media	Method	Fraction
1528	7/18/2016	12:00	WQ-ECH_071816_SW_10		3								
				FS		2	40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T
				FS		1	1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T
1529	7/18/2016	12:00	WQ-ECH_071816_SW_10_	DUP	3								
				FD		1	1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T
				FD		2	40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T
1530	7/18/2016	12:00	WQ-ECH_071816_SW_10_	MS	3								
	EX	TRA	VOLUME FOR	MS		1	1	Ĺ	Plastic	4 deg C	sw	TSS (Mod 2450D)	T
		MATE	zix spike	MS		2	40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T
1531	7/18/2016	12:00	WQ-ECH_071816_SW_10_	MD	3								
	EXTE	LA-VOL	LUME FOR	MSD		2	40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T
	MA	MIX	SPIKE DUP	MSD		1	1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T
1532	7/18/2016	11:00	WQ-FPT_071816_SW_10		3								
				FS		1	1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T
				FS		2	40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T

QC Codes: FS = Field Sample, EB = Equipment Rinsate Blank, MS - Matrix Spike, MSD = Matrix Spike Duplicate

Relinquished:_	Juli Pallogy	Date:	120	12016	Time: 1724
Received:	GOTTO AM	Date: 7	121	16	Time: 11:30
	AIRBILL#: 80940	561 9691			

Wednesday, July 20, 2016

Page 2 of 2

Wet Chemistry



Total Suspended Solids Analysis

Sample Raw Data

ALPHA ANALYTICAL LABS WET CHEMISTRY DEPARTMENT

Last Change 3/4/13

File tss.xlt

2540D (PPB)

2540D

Get Samples

TOTAL SUSPENDED SOLIDS

Filter Lot T60274

Sample Number: Oven C

In104 16:05

Product: TSS-2540 Analyte: Solids, Total Suspended

Client:

Out 22:52

Analysis Date: 7/25/2016 15:05

In 23:45

Technician: SG

Analysis: T S S Method: SM 2540D Out 0:48 7/26 In 1:52

Work group: WG916634

RDL: 5.0 mg/l

Save to LIMS

Out 2:57

METHODS

2

	Sample Number	Symbol	Tare Weight (gm)	Sample Volume (ml)	Net Weight(1) (gm)	Net Weight(2) (gm)	Net Weight(3) (gm)	Net Weight(4) (gm)	RDL MULT.	RESULT mg/l	_
BLANK	WG916634-1	55	0.4265	1000	0.4242	0.4242				0.00	
DUP	WG916634-2	56	0.433	1000	0.4421	0.4419				8.90	L1622656-06
SAMP	L1622656-01	57	0.4348	1070	0.4349	0.4347				0.00	
SAMP	L1622656-02	58	0.4338	1060	0.4453	0.4450				10.57	
SAMP	L1622656-03	59	0.4298	1100	0.4499	0.4495				17.91	
SAMP	L1622656-04	60	0.4343	1110	0.4494	0.4493				13.51	
SAMP	L1622656-05	127	0.425	1110	0.4347	0.4347				8.74	
SAMP	L1622656-06	129	0.431	1000	0.4402	0.4402				9.20	
SAMP	L1622656-07	130	0.4343	1110	0.4451	0.4448				9.46	
SAMP	L1622656-08	131	0.4264	1140	0.4347	0.4346				7.19	
SAMP	L1622828-01	145	0.4339	400	0.4511	0.4516			2	43.00	
		DUP-TA	ARE:	0.44190	0.43300	0.00890				20140.30	
		Sample	-TARE:	0.44020	0.43100	0.00920				20899.59	
		DUP we	eight (g) on t	he filter:		0.00890					
		Sample	weight (g)	on the filter:	:	0.00920					
	Ave weight (g) on the filter:					0.00905					
	DUP%:				98.3						
		Sample	%:			101.7					

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jul 28 2016, 01:44 pm

Work Group: WG916634 for Department: 7 Wet Chemistry

Created: 25-JUL-16 Due: Operator: SG

Sample	Client ID	C Product	Matrix	Stat UA HOLD DUE PR Location
L1622656-01	OV-02_071816_SW_10	S TSS-2540	WATER	DONE U 0725 0728 S0 Plastic-A1
L1622656-02	WQ1B-C_071816_SW_10	S TSS-2540	WATER	DONE U 0725 0728 S0 Plastic-A1
L1622656-03	WQ2-C_071816_SW_10	S TSS-2540	WATER	DONE U 0725 0728 S0 Plastic-A1
L1622656-04	WQ3-L_071816_SW_10	S TSS-2540	WATER	DONE U 0725 0728 S0 Plastic-Al
L1622656-05	ES-15_071816_SW_10	S TSS-2540	WATER	DONE U 0725 0728 S0 Plastic-A1
L1622656-06	WQ-ECH_071816_SW_10		WATER	DONE U 0725 0728 S0 Plastic-A1
L1622656-07	WQ-ECH_071816_SW_10_		WATER	DONE U 0725 0728 S0 Plastic-Al
L1622656-08	WQ-FPT_071816_SW_10		WATER	DONE U 0725 0728 S0 Plastic-A1
L1622828-01	INFLUENT	S TSS-2540	WATER	DONE U 0729 0729 S0 Plastic-A1
WG916634-1	Laboratory Method Bl		WATER	DONE U
WG916634-2	Duplicate Sample	S TSS-2540	WATER	DONE U
G				
Comments:				
WG016634 2	T16006F6 06			
WG916634-2	L1622656-06			

Page 1

Organic Carbon Analysis

Sequence Logs

Alpha Analytical, Inc.

Facility: Westborough, MA
Department: Wet Chemistry

Title: TOC 3 Run Log - Shimadzu Zebra

ID: 20677

Revision: 1

Published Date: 3/10/2016 10:26:50 AM

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DATE:	WED 07246			K STDS ID INFO:		WORKING STDS ID INFO:				
ANALYS	18.1/		LOT#			LOT #'s:				
CURVE II				PPM CURVE SLN:			2 PPM ICV:			
CURVE II	NUSE: OSOQUE TOC-	3		PPM ICV/LCS/SPK SL						
			4000 F	PPM IC CK STD SLN:	701-0607	16-	4 PPM SPK:			
					ましいい		10 PPM IC CK	STD: T	NC-	ロナントルーエム
OSITION	SAMPLE	DIL X	PH	COMMENTS	POSITION	SAMPLE		DIL X	PH	COMMENTS
1	DE									
2	TUCIUSTO LOgmo							1		
	zw zpm									
4	PCVB							1.5		
Ś	inrb									
6	is zpm									
7	22656. 1 DOC	1	2	DULS PF						
	2	1	12							
9	3	2	2							
(0	4	5	l						_	
11	Ś	5	v							
12	6	5	2							
13	7	5	2							
14	7	5	7							
15	ccv 2pm								_	
16	ccb									
17	22456.3 DOC	1	2						1	
18	3 1	1	2							
19	5	1	2						_	
20	6	1	2							
21	4	1	ા							
マレ	3 4	1	1							
28	ccv ymm					_				
va	1001									
	//									
								10-		

Document Type: Form

Pre-Qualtrax Document ID: N/A

Alpha Analytical, Inc.

Facility: Westborough, MA Department: Wet Chemistry

Title: TOC 3 Run Log - Shimadzu Zebra

ID: 20677

Revision: 1

Published Date: 3/10/2016 10:26:50 AM

Page 36 of 51

DATE:	the 072846		STOCK	STDS ID INFO:			WORKING ST	DS ID IN	NFO:	
ANALYST	T: >		LOT#	s:			LOT #'s:			
CURVE II	NFO:		2000 P	PM CURVE SLN: TOU	-050916	- c				8816 - ICV
CURVE II	NUSE: 050916 701-	3	2000 P	PM ICV/LCS/SPK SLN:	70c- 0sc	916-10	2 PPM LCS :	TUZ	- 07	2816-そしいめ
				PM IC CK STD SLN: TO						8ul - SPLL
					IL YUN)	10 PPM IC CK	STD:	TUC	-072716-EC
POSITION	SAMPLE	DIL X	PH	COMMENTS	POSITION	SAMPLE		DIL X	PH	COMMENTS
	M									
2	ECCLESIS LOppm									
3	Rev zymn									
4	ters								-	
5	in 13									
6	ics zymn									
7	22656. 6 dup	i	2							
8	,65,76	-		47m 7127/16					_	
9	remn . 6 Gil	2	2	= 8 12mm						
10	car zam							-		
11	ccb									
									-	
									-	
								1		
				*						
			1, 1, 1							
									1	
									1	

Document Type: Form

Pre-Qualtrax Document ID: N/A

Sample Raw Data

ALPHA ANALYTICAL LABS BACTERIA DEPARTMENT DISSOLVED ORGANIC CARBON

Last Change 03/4/13 GFF File TOC/DOC.xlt

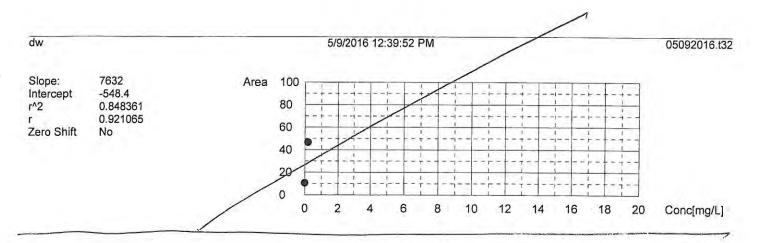
Sample Number:		_			Product:	DOC-9060	
		-				Dissolved Organ	ic Carbon,
Client:		-				7/27/2016 6:57	
	DOC				Technician:		
Analysis: TOC Instrument ID:				V	Vork group:	wg917343 1.0 mg/l	
	EPA-9060			Pac	ge Number:	1.0 mg/1	
Witting.		Conc. (ppm):	2			7/27/2016 6:57	
		e Conc(ppm):					
				MDL	RESULT		
	Sample Number	COMMI	ENTS	Multiplier	mg/L	1	
DUP	WG917343-3			1	0.25	L1622656-06	
SAMP	L1622656-01			1	5.78		
SAMP	L1622656-02			1	2.37		
SAMP	L1622656-03			1	0.76		
SAMP	L1622656-04			1	0.41		
SAMP	L1622656-05			1	0.24		
SAMP	L1622656-06			1	0.29		
SAMP	L1622656-07			1	0.24		
SAMP	L1622656-08			1	0.19		
BLANK	WG917343-1			1	0.00		
		Comments	Sample Result	Spike Conc	Spike Result	% Rec	
	W0045040 6						1 46226
MS	WG917343-4		0	8	2.31	29	L16226

2

2.00

100

WG917343-2



Cal. Curve

Sample Name:

Sample ID: Cal. Curve:

Status

05092016 toc-3 curve

05092016 toc-3.2016_05_09_09_55_51.cal

Completed

Туре	Anal.
Standard	NPOC

Conc: 0.000mg/L

_	T	0	C		-		3
	(٥	u	1	V	1.	e
	0	5	1)6	1	(6

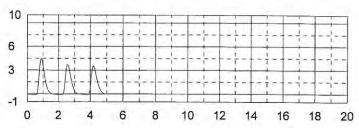
No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	11.55	2500uL	1	*****	E	5/9/2016 10:04:29 AM
2	9.448	2500uL	1	*****		5/9/2016 10:09:05 AM
3	9.120	2500uL	1	*****		5/9/2016 10:13:42 AM

Acid Add. Sp. Time

Mean Area

3.000% 180.0sec 9.284

Signal[mV] 10



Time[min]

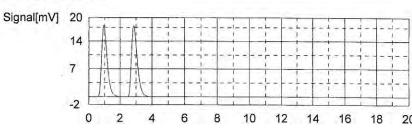
Conc: 0.2000mg/L

No.	Area	Inj. Vol.	Aut. Díl.	Rem.	Ex.	Date / Time
1	46.87	2500uL	1	*****		5/9/2016 10:24:17 AM
2	46.35	2500uL	1	*****		5/9/2016 10:28:33 AM

Acid Add.

Sp. Time Mean Area 3.000% 180.0sec

46.61



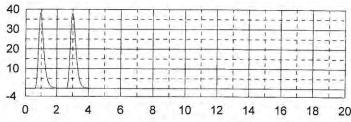
Time[min]

Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	98.92	2500uL	1	*****		5/9/2016 10:39:31 AM
2	96.85	2500uL	1	*****		5/9/2016 10:43:42 AM

Acid Add. Sp. Time Mean Area 3.000% 180.0sec 97.89

Signal[mV] 40



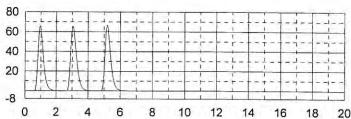
Time[min]

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	168.5	2500uL	1	*****		5/9/2016 10:54:43 AM
2	174.4	2500uL	1	*****	E	5/9/2016 10:59:04 AM
3	171.1	2500uL	1	*****	L	5/9/2016 11:03:17 AM

Acid Add. Sp. Time Mean Area 3.000% 180.0sec 169.8

Signal[mV] 80

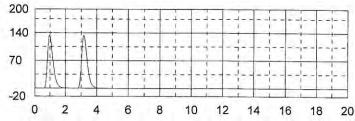


Time[min]

Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	346.8	2500uL	1	*****	1	5/9/2016 11:14:09 AM
2	349.8	2500uL	. 1	*****		5/9/2016 11:18:27 AM

Acid Add. Sp. Time Mean Area 3.000% 180.0sec 348.3 Signal[mV] 200



Time[min]

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	850.0	2500uL	1	*****		5/9/2016 11:29:52 AM
2	841.4	2500uL	1	*****		5/9/2016 11:34:29 AM

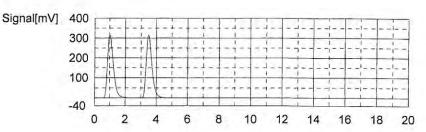
5/9/2016 12:39:52 PM

Time[min]

Time[min]

Conc[mg/L]

Acid Add. Sp. Time Mean Area 3.000% 180.0sec 845.7



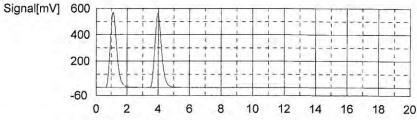
Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1710	2500uL	1	*****		5/9/2016 11:46:16 AM
2	1721	2500uL	1	*****		5/9/2016 11:52:21 AM

Acid Add.

3.000%

Sp. Time Mean Area 180.0sec 1716

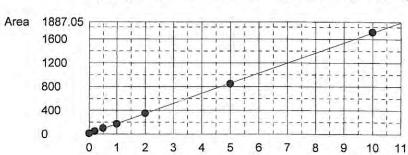


Slope: Intercept r^2

170.2 7.247 0.999863

0.999932

Zero Shift No



dw

7/28/2016 5:39:09 AM

07272016.t32

Instr.Information

System Detector TOC-VW Wet Chemical



Sample

Sample Name:

di

Sample ID: Origin:

toc-3 4 reps method.met Completed

Status

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.03147mg/L

1. Det

Anal.: NPOC

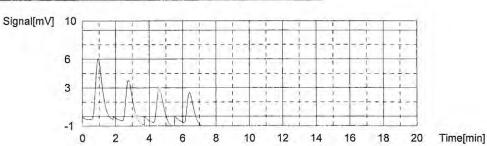
No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	18.50	0.06613mg/l	2500uL		05092016 toc-3.2016_05_09_09_	
2	12.37	0.03010mg/l	2500uL	1	05092016 toc-3,2016_05_09_09_	7/27/2016 6:10:22 A
3	10.43	0.01870mg/l	2500uL	1	05092016 toc-3.2016_05_09_09	7/27/2016 6:14:37 A
4	9.108	0.01094mg/l	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 6:19:33 A

Mean Area

12.60

Mean Conc.

0.03147mg/L



Sample

Sample Name:

ic ck std 10ppm

Sample ID: Origin:

toc-3 4 reps method.met

Status

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.08202mg/L



1. Det

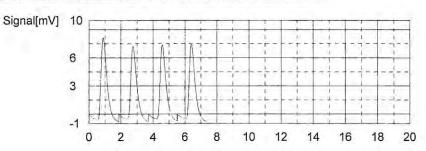
dw

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal, Curve	Date / Time
1	23.24	0.09398mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 6:30:20 A
2		0.07764mg/L			05092016 toc-3.2016_05_09_09_	7/27/2016 6:35:35 A
3	20.39	0.07723mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 6:41:13 A
4	20.73	0.07923mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 6:46:26 A

Mean Area Mean Conc. 21.21

0.08202mg/L



Sample

Sample Name: Sample ID: Origin: Status

icv 2ppm

toc-3 4 reps method.met Completed

Chk. Result

Туре	Anal.	Dil.	Result	
Unknown	NPOC	1.000		NPOC:1.983mg/L

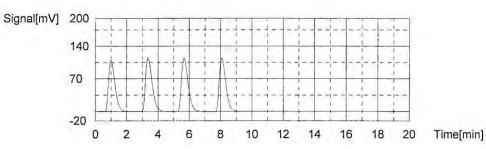


Time[min]

1. Det

No.	Area	Conc.	lnj. Vol.	Aut. Dil.	Ex.	Cal, Curve			Date /	Time
1	333.9	1.919mg	/L2500uL	1		05092016 toc-3.2016_05_	09	09	7/27/2016	6:57:48 A
2	349.1	2.009mg	/L2500uL	1		05092016 toc-3.2016_05	09	09	7/27/2016	7:02:12 A
3	349.5	2.011mg	/L2500uL	1		05092016 toc-3.2016_05_	09	09	7/27/2016	7:06:56 A
4	346.5	1.994mg	/L2500uL	1		05092016 toc-3.2016 05	09	09	7/27/2016	7:11:46 A

Mean Area Mean Conc. 344.8 1.983mg/L



Sample

Sample Name: Sample ID: Origin: Status

icb

toc-3 4 reps method.met Completed

Chk. Result

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.00343mg/L

1. Det

Anal.: NPOC

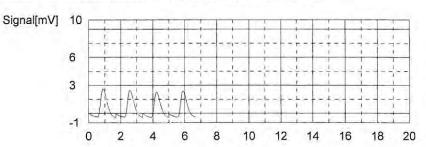
	Area			Aut. Ex. Dil.	Cal. Curve	Date / Time
1	8.359	0.00654mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 7:22:22 A
2	7.991	0.00437mg/L	2500uL	_1	05092016 toc-3.2016_05_09_09_	7/27/2016 7:26:59 A
3	7.350	0.00061mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 7:31:35 A
4	7.623	0.00221mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 7:36:09 A

Mean Area

7.831

Mean Conc.

0.00343mg/L



Time[min]

Sample

Sample Name: Sample ID: Origin: Status

mb

toc-3 4 reps method.met

Completed

Chk. Result

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.00121mg/L

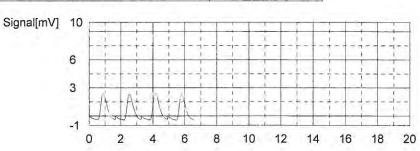
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
		0.00230mg/L			40	05092016 toc-3.2016_05_09_09_	7/27/2016 7:46:44 A
		0.00018mg/L				05092016 toc-3.2016_05_09_09	7/27/2016 7:51:14 A
3	7.732	0.00285mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	7/27/2016 7:55:48 A
4	7.167	-0.00047mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/27/2016 8:00:20 A

Mean Area Mean Conc. 7.454

0.00121mg/L



Sample

Sample Name:

lcs 2ppm

Completed

Sample ID: Origin:

toc-3 4 reps method.met

Status

Chk. Result

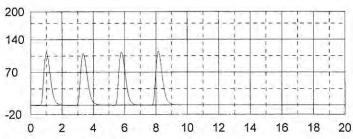
Туре	Anal.	Dil.	Result	
Unknown	NPOC	1.000		NPOC:2.001mg/L

Time[min]

1. Det

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	341.1	1.962mg/	L2500uL	-1	05092016 toc-3.2016_05_09_09_	7/27/2016 8:11:35 A
2	351.6	2.023mg/			05092016 toc-3.2016_05_09_09_	7/27/2016 8:16:09 A
3	347.0	1.996mg/	L2500uL	- 1	05092016 toc-3.2016_05_09_09_	7/27/2016 8:20:36 A
4	351.5	2.023mg/			05092016 toc-3.2016_05_09_09_	7/27/2016 8:25:04 A

Mean Area Mean Conc. 347.8 2.001mg/L Signal[mV] 200 140



Time[min]

Sample

Sample Name:

22656-01 doc

Sample ID: Origin:

toc-3 4 reps method.met

Status

Completed

Chk. Result

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.782mg/L

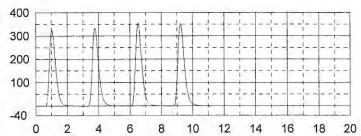
S.XB

1. Det

Anal.: NPOC

No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	918.3	5.353mg/l	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 8:40:04 A
2	981.4	5.724mg/l	2500uL	1	05092016 toc-3.2016_05_09_09	7/27/2016 8:44:55 A
3	1013	5.910mg/l	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 8:49:43 A
4	1052	6.139mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 8:54:48 A

Mean Area Mean Conc. 991.2 5.782mg/L Signal[mV] 400



Time[min]

Sample

Sample Name:

22656-02 doc

Sample ID: Origin:

toc-3 4 reps method.met Completed

Status

Chk. Result

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.666mg

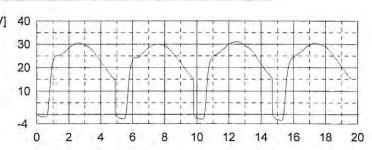
1. Det

Anal.: NPOC

No.	Area	Conc.	lnj. Vol.	Aut. Ex Dil.	Cal. Curve	Date / Time
1	450.7	2.606mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 9:08:37 A
2	457.7	2.647mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 9:16:44 A
3	465.2	2.691mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 9:24:53 A
4	470.0	2.719mg/L	2500uL	1	05092016 toc-3.2016_05_09_09	7/27/2016 9:33:04 A

Mean Area Mean Conc.

460.9 2.666mg/L Signal[mV]



Time[min]

Sample

Sample Name:

22656-03 2x doc

Sample ID: Origin:

toc-3 4 reps method.met

Status Completed

Chk. Result

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4783mg/L

1. Det

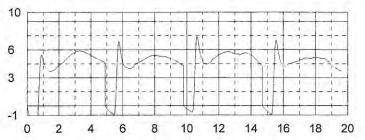
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. E	x. Cal. Curve	Date / Time
1	95.43	0.5182mg/l	2500uL	1	05092016 toc-3.2016_05_09_09	7/27/2016 9:46:52 A
		0.4394mg/L			05092016 toc-3.2016_05_09_09_	7/27/2016 9:54:54 A
3	89.25	0.4819mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 10:01:54
4	87.88	0.4738mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 10:10:01

Mean Area Mean Conc. 88.65

0.4783mg/L

Signal[mV] 10



Time[min]

Sample

Sample Name: Sample ID: Origin: Status

22656-04 5x doc

toc-3 4 reps method.met

Completed

Chk. Result

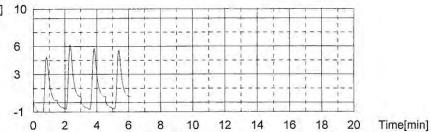
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.03226mg/L

1. Det

No.	Area	Conc.	Inj. Vo	I. Aut. E	X.		Cal. C	Curve			- 7	Date	e /	Time)
-	7	12.44	0.5	Dil.											
1	12.63	0.03163mg/L	2500u	L 1	0	5092016	toc-3.2	2016	05	09	09	7/27/20	16	10:2	0:27
2	13.23	0.03516mg/L	2500u	1	0	5092016	toc-3.2	2016	05	09	09	7/27/20	16	10:2	5:12
3	12.84	0.03287mg/L	2500u	L 1	0	5092016	toc-3.2	2016	05	09	09	7/27/20	16	10:2	9:59
4	12.25	0.02940mg/l	2500u	1	0	5092016	toc-3.2	2016	05	09	09	7/27/20	16	10:3	4:44

Mean Area Mean Conc. 12.74 0.03226mg/L





Sample

Sample Name: Sample ID: Origin:

22656-05 5x doc

toc-3 4 reps method.met

Status

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.02897mg/L

1. Det

Anal.: NPOC

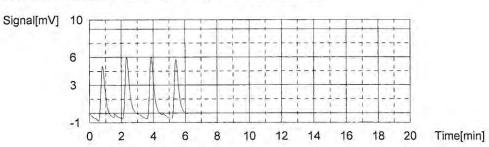
No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.23	0.02341mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	
2	12.67	0.03187mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	
3	12.76	0.03240mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	
4	12.05	0.02822mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	7/27/2016 10:59:26

Mean Area

12.18

Mean Conc.

0.02897mg/L



Sample

Sample Name: Sample ID: Origin: Status

22656-06 5x doc

toc-3 4 reps method.met

Chk. Result

Completed

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.02724mg/L

1. Det

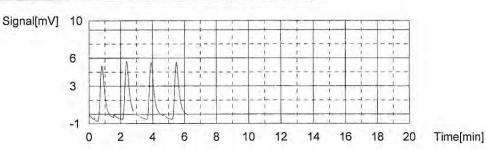
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. E Dil.	x. Cal. Curve Date / Time
1	11.74	0.02640mg/L	2500uL	. 1	05092016 toc-3.2016_05_09_09_7/27/2016 11:09:55
		0.02852mg/L			05092016 toc-3.2016_05_09_09_7/27/2016 11:14:39
3	11.98	0.02781mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_7/27/2016 11:19:21
4	11.71	0.02623mg/L	2500uL	1	05092016 toc-3.2016 05 09 09 7/27/2016 11:24:00

Mean Area

11.88

Mean Conc. 0.02724mg/l



Sample

Sample Name: Sample ID: Origin:

22656-07 5x doc

toc-3 4 reps method.met Completed

Status

Chk. Result

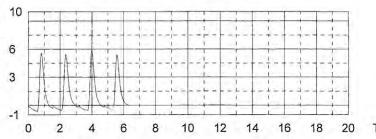
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.02881mg/L

1. Det

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	12.23	0.02928mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 11:34:28
		0.02922mg			05092016 toc-3.2016_05_09_09_	7/27/2016 11:39:20
3	12.71	0.03210mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 11:44:00
4	11.44	0.02464mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 11:48:37

Mean Area Mean Conc.

12.15 0.02881mg/L Signal[mV] 10



Time[min]

Sample

Sample Name: Sample ID: Origin:

22656-08 5x doc

toc-3 4 reps method.met

Status

Completed

Chk. Result

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.02674mg/L



Time[min]

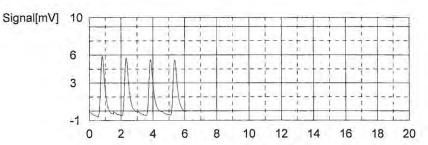
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.26	0.02946mg/	L2500uL	. 1		05092016 toc-3.2016_05_09_09_	7/27/2016 11:59:03
2	11.88	0.02723mg/l	L2500uL	1		05092016 toc-3.2016_05_09_09_	7/27/2016 12:03:42
3	11.68	0.02605mg/l	L2500uL	. 1		05092016 toc-3.2016_05_09_09_	7/27/2016 12:08:20
4	11.37	0.02423mg/	L2500uL	1		05092016 toc-3.2016_05_09_09_	7/27/2016 12:12:57

Mean Area Mean Conc. 11.80

0.02674mg/L



Sample

Sample Name:

ccv 2ppm

Sample ID: Origin:

toc-3 4 reps method.met Completed

Status

Chk. Result

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.042m

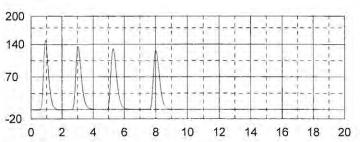
1. Det

Anal.: NPOC

No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	351.9	2.025mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 12:31:05
2	355.4	2.046mg	/L2500uL		05092016 toc-3.2016_05_09_09_	
3	359.0	2.067mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 12:41:18
4	353.0	2.032mg	/L2500uL	1	05092016 toc-3,2016_05_09_09_	7/27/2016 12:45:38

Mean Area Mean Conc.

354.8 2.042mg/L Signal[mV] 200



Time[min]

Sample

Sample Name: Sample ID: Origin:

ccb

toc-3 4 reps method.met

Status

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.03658mg/l

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	13.87	0.03892mg/l	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 12:56:11
		0.03069mg/l			05092016 toc-3.2016_05_09_09_	
3	14.35	0.04174mg/l	2500uL	. 1	05092016 toc-3.2016_05_09_09_	
4		0.03498mg/l			05092016 toc-3.2016_05_09_09_	7/27/2016 1:09:54 P

Mean Area Mean Conc. 13.47

0.03658mg/L

Signal[mV] 10 6 3 -1 0 2 6 8 10 12 14 16 18

Sample

Sample Name: Sample ID: Origin: Status Chk. Result

22656-03 1x doc

toc-3 4 reps method.met

Completed

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.7600mg/L

Time[min]

1. Det

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	141.8	0.7907mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 1:23:44 P
2	132.5	0.7360mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 1:31:47 P
3	135.1	0.7513mg	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/27/2016 1:38:47 P
		0.7619mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 1:47:02 P

6

8

10

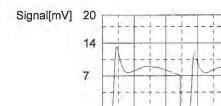
12

16

18

Mean Area Mean Conc.

136.6 0.7600mg/L



-2

0

2

Time[min]

Sample

Sample Name: Sample ID: Origin:

22656-04 1x

toc-3 4 reps method.met

Status

Completed

Chk. Result

Туре	Anal.	Dil.	Result	
Unknown	NPOC	1.000	NPOC:0.4132n	

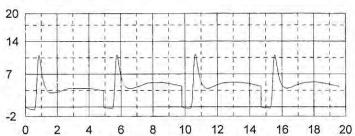
Time[min]

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	69.12	0.3636mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 2:00:51 P
2	79.27	0.4232mg/l	2500uL	1	05092016 toc-3.2016_05_09_09	7/27/2016 2:07:51 P
3	81.12	0.4341mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 2:14:51 P
4	80.78	0.4321mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 2:21:51 P

Mean Area Mean Conc. 77.57 0.4132mg/L Signal[mV] 20



Sample

Sample Name: Sample ID: Origin:

22656-05 1x

toc-3 4 reps method.met

Status

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2374mg/L

Time[min]

1. Det

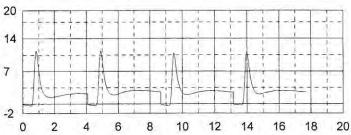
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	39.21	0.1878mg/l	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 2:36:29 P
2	51.73	0.2614mg/l	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 2:43:10 P
3	49.32	0.2472mg/l	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 2:49:46 P
4	50.35	0.2533mg/l	2500uL	. 1	05092016 toc-3.2016_05_09_09	7/27/2016 2:56:23 P

Mean Area Mean Conc. 47.65

0.2374mg/L

Signal[mV] 20



Sample

Sample Name:

22656-06 1x

Sample ID: Origin:

toc-3 4 reps method.met

Status

Completed

Chk. Result

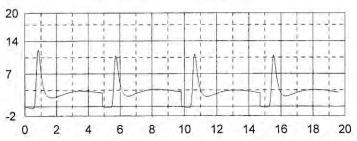
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2923mg/L

1. Det

Time[min]

No.	Area	Conc.	lnj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	56.07	0.2869mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	
2	57.37	0.2945mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	7/27/2016 3:17:12 P
3	56.98					05092016 toc-3.2016_05_09_09	7/27/2016 3:24:12 P
4	57.53	0.2955mg/L	2500uL	. 1		05092016 toc-3.2016_05_09_09_	7/27/2016 3:31:12 P

Mean Area Mean Conc. 56.99 0.2923mg/L Signal[mV] 20



Sample

Sample Name:

22656-07 1x

Sample ID:

toc-3 4 reps method.met

Origin: Status

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2378mg/L

124

Time[min]

1. Det

Anal.: NPOC

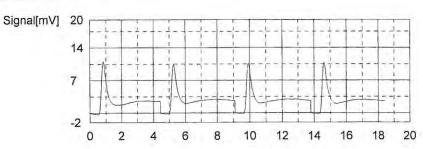
No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.		Date / Time
1	44.24	0.2174mg	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/27/2016 3:44:33 P
2	48.75	0.2439mg	/L2500uL		05092016 toc-3.2016_05_09_09_	7/27/2016 3:51:18 P
3	49.55	0.2486mg	/L2500uL		05092016 toc-3.2016_05_09_09_	
4	48.29	0.2412mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 4:04:50 P

Mean Area

47.71

Mean Conc.

0.2378mg/L



Sample

Sample Name:

22656-08 1x

Sample ID: Origin:

toc-3 4 reps method.met Completed

Status

Chk. Result

Type	Anal.	Dil.	Result	
Unknown	NPOC	1.000		NPOC:0.1921mg/L

1. Det

Anal.: NPOC

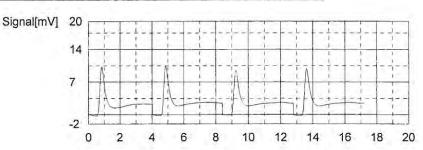
No.	Area	Conc.	lnj. Vol.	Aut. I Dil.	Ex.	Cal. Curve	Date / Time
1	35.85	0.1681mg/L	2500uL	1	- 1	05092016 toc-3.2016_05_09_09_	7/27/2016 4:17:47 P
2	42.78	0.2088mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	7/27/2016 4:24:15 P
3	39.89	0.1918mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	
4	41.20	0.1995mg/L	2500uL	. 1		05092016 toc-3.2016_05_09_09_	7/27/2016 4:37:14 P

Mean Area

39.93

Mean Conc.

0.1921mg/L



Time[min]

Sample

Sample Name:

CCV

Sample ID: Origin:

toc-3 4 reps method.met

Status

Completed

Chk. Result

Туре	Anal.	Dil.	Result	
Unknown	NPOC	1.000		NPOC:2.008mg/L

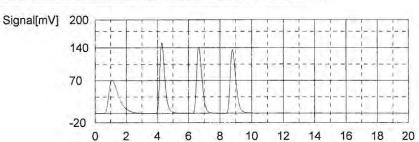
1. Det

dw

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	337.4	1.940mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 4:55:50 P
2	354.0	2.038mg	/L2500uL		05092016 toc-3.2016_05_09_09_	
3	347.8	2.001mg	/L2500uL		05092016 toc-3.2016_05_09_09_	
4	356.6	2.053mg	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/27/2016 5:09:27 P

Mean Area Mean Conc. 349.0 2.008mg/L



Time[min]

Sample

Sample Name: Sample ID: Origin: Status

ccb

toc-3 4 reps method.met Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.03729mg/L

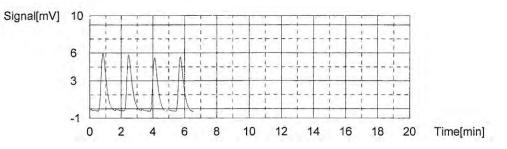
1. Det

No.	Area	Conc.	Inj. Vol.	Aut. E	x. Cal. Curve	Date / Time
1	14.39	0.04197mg/L	2500uL	. 1	05092016 toc-3.2016_05_09_09_	7/27/2016 5:20:01 P
2	13.85	0.03880mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/27/2016 5:24:39 P
3		0.03287mg/L			05092016 toc-3.2016_05_09_09	7/27/2016 5:29:12 P
4	13.29	0.03551mg/L	2500uL	. 1	05092016 toc-3.2016_05_09_09_	7/27/2016 5:33:44 P

Mean Area Mean Conc.

dw

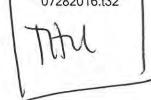
13.59 0.03729mg/L



07282016.t32

Instr.Information

System Detector TOC-VW Wet Chemical



Time[min]

Sample

Sample Name:

di

Sample ID: Origin:

toc-3 4 reps method.met Completed

Status

Chk. Result

Type	Anal.	Dil,	Result
Unknown	NPOC	1.000	NPOC:0.04610mg/L

1. Det

Anal.: NPOC

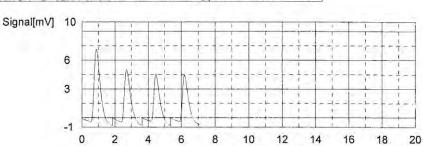
No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	20.53	0.07805mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 6:13:29 A
2	14.76	0.04415mg/L	2500uL	1	05092016 toc-3.2016_05_09_09	7/28/2016 6:19:04 A
3	12.80	0.03263mg/L	2500uL	. 1	05092016 toc-3.2016_05_09_09	7/28/2016 6:23:26 A
4	12.28	0.02958mg/L	2500uL	1	05092016 toc-3.2016_05_09_09	7/28/2016 6:28:16 A

Mean Area

15.09

Mean Conc.

0.04610mg/L



Sample

Sample Name: Sample ID:

ic ck std 10ppm

Origin:

toc-3 4 reps method.met

Status

Completed

Chk. Result

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1131mg

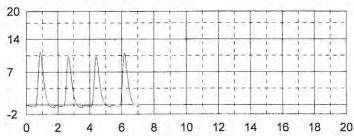


1. Det

Anal.: NPOC

No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	28.43	0.1245mg/	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/28/2016 6:38:59 A
		0.1050mg/			05092016 toc-3.2016_05_09_09_	7/28/2016 6:44:05 A
3	25.52	0.1074mg/	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/28/2016 6:49:25 A
4	26.91	0.1155mg/	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 6:54:22 A

Mean Area Mean Conc. 26.49 0.1131mg/L Signal[mV] 20



Sample

Sample Name: Sample ID: Origin: Status

icv 2ppm

toc-3 4 reps method.met

Completed

Chk. Result

Туре	Anal.	Dil.	Result
Jnknown	NPOC	1.000	NPOC:2.056mg/L

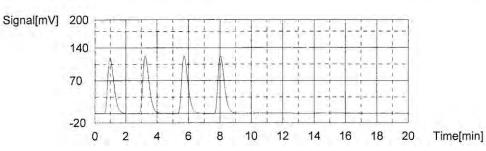


Time[min]

1. Det

No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	352.8	2.031mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 7:05:33 A
2	359.8	2.072mg	/L2500uL		05092016 toc-3.2016_05_09_09_	
3	358.0	2.061mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 7:14:32 A
4	357.7	2.059mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 7:18:57 A

Mean Area Mean Conc. 357.1 2.056mg/L



Sample

Sample Name: Sample ID: Origin: Status

icb

toc-3 4 reps method.met

Completed

Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.02524mg/L

Time[min]

1. Det

Anal.: NPOC

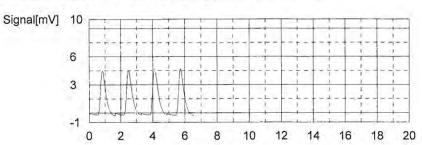
No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.24	0.02346mg/L	2500uL	. 1		05092016 toc-3.2016_05_09_09_	7/28/2016 7:29:31 A
2	11.51	0.02505mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	
3	11.79	0.02670mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	
4	11.63	0.02576mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/28/2016 7:43:11 A

Mean Area

11.54

Mean Conc.

0.02524mg/l



Sample

Sample Name: Sample ID: Origin:

mb

toc-3 4 reps method.met

Status

Completed

Chk. Result

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.01868mg/L



1. Det

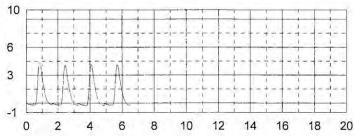
Anal.: NPOC

No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	11.00	0.02205mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 7:53:43 A
2	10.14	0.01700mg/L	2500uL	1	05092016 toc-3.2016_05_09_09	7/28/2016 7:58:18 A
3	10.37	0.01835mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 8:02:51 A
4	10.19	0.01729mg/L	2500uL	1	05092016 toc-3.2016_05_09_09	7/28/2016 8:07:28 A

Mean Area Mean Conc. 10.43

0.01868mg/L

Signal[mV] 10



Sample

Sample Name: Sample ID: Origin:

lcs 2ppm

toc-3 4 reps method.met

Status

Completed

Chk. Result

Type	Anal.	Dil.	Result	
Unknown	NPOC	1.000		NPOC:1.963mg/L



Time[min]

1. Det

Time[min]

No.	Area	Conc.	Inj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	341.3	1.963mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 8:18:34 A
2	337.5	1.941mg	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/28/2016 8:23:05 A
3	345.7	1.989mg	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/28/2016 8:27:30 A
4	340.7	1.959mg	/L2500uL	1	05092016 toc-3.2016_05_09_09	7/28/2016 8:31:52 A

Mean Area Mean Conc. 341.3 1.963mg/L Signal[mV] 200 140 70 0 2 4 6 8 10 12 14 16 18

Sample

Sample Name:

22656-06 dup doc

Sample ID: Origin: Status

toc-3 4 reps method.met

tus Completed

Chk. Result

Туре	Anal.	Dil.	Result	
Unknown	NPOC	1.000		NPOC:0.2515mg/L

0,25

1. Det

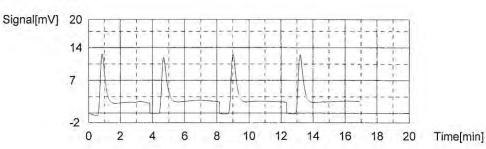
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex.	Cal. Curve	Date / Time
1	49.24	0.2468mg/	L2500uL		05092016 toc-3.2016_05_09_09_	7/28/2016 8:44:37 A
2		0.2539mg/			05092016 toc-3.2016 05 09 09	
3	50.13	0.2520mg/	L2500uL	1	05092016 toc-3.2016_05_09_09	7/28/2016 8:57:20 A
4	50.38	0.2535mg/	L2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 9:03:59 A

Mean Area

50.05

Mean Conc. 0.2515mg/L



Sample

Sample Name:

22656-06 spk 4ppm doc

Sample ID:

toc-3 4 reps method.met

Origin: Status

Aborted

Chk. Result

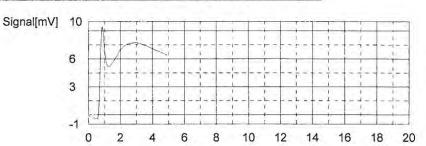
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.5491mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Ex	Cal, Curve	Date / Time
1	100.7	0.5491mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 9:17:48

Mean Area Mean Conc. 100.7 0.5491mg/L



Sample

Sample Name:

22656-06 spk 8ppm 2x

Sample ID:

toc-3 4 reps method.met

Origin: Status

Completed

Chk. Result

Туре	Anal.	Dil.	Result	
Unknown	NPOC	1.000	NPOC:1.155n	ng/L

1. Det

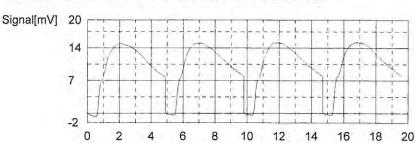
Anal.: NPOC

2.31

Time[min]

No.	Area	Conc.	lnj. Vol.	Aut. Ex. Dil.	Cal. Curve	Date / Time
1	207.7		/L2500uL		05092016 toc-3.2016_05_09_09	7/28/2016 9:39:48 A
2	200.6	1.136mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 9:47:52 A
3	203.2	1.151mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 9:55:56 A
4	203.7	1.154mg	/L2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 10:04:00

Mean Area Mean Conc. 203.8 1.155mg/L



Sample

Sample Name:

ccv 2ppm

Sample ID:

toc-3 4 reps method.met Completed

Origin: Status

Chk. Result

Type	Anal.	Dil.	Result	
Unknown	NPOC	1.000		NPOC:1.972mg/L



Time[min]

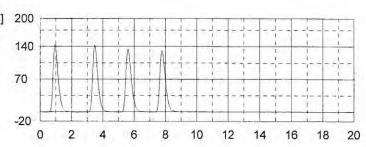
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	347.1	1.997mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	7/28/2016 10:15:27
2	338.2	1.945mg/L	2500uL	. 1		05092016 toc-3.2016_05_09_09	7/28/2016 10:19:40
3	345.7	1.989mg/L	2500uL	1	-	05092016 toc-3.2016_05_09_09	7/28/2016 10:24:00
4	340.2	1.956mg/L	2500uL	1		05092016 toc-3.2016_05_09_09_	7/28/2016 10:28:15

Mean Area Mean Conc. 342.8 1.972mg/L

Signal[mV] 200



Time[min]

Sample

Sample Name: Sample ID: Origin: Status Chk. Result

ccb

toc-3 4 reps method.met Completed

Туре	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.01712mg/l



Time[min]

1. Det

Anal.: NPOC

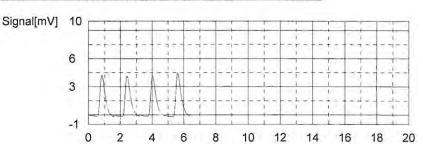
1	Area			Aut. Ex Dil.	. Cal. Curve	Date / Time
1	10.14	0.01700mg/L	2500uL	_1	05092016 toc-3.2016_05_09_09_	7/28/2016 10:38:46
2	9.923	0.01573mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 10:43:20
3	9.750	0.01471mg/L	2500uL	1	05092016 toc-3.2016_05_09_09_	7/28/2016 10:47:49
4	10.83	0.02106mg/L	2500uL	1	05092016 toc-3.2016 05 09 09	7/28/2016 10:52:21

Mean Area

10.16

Mean Conc.

0.01712mg/L



Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jul 28 2016, 01:44 pm

Work Group: WG917343 for Department: 7 Wet Chemistry

Created: 27-JUL-16 Due: Operator: dw

Sample	Client ID	C Product	Matrix	Stat UA HOLD DUE PR	Location
L1622656-01	OV-02_071816_SW_1	DOC-9060	WATER	DONE U 0815 0728 S0	Vial-D
L1622656-02	WQ1B-C_071816_SW_	LO S DOC-9060	WATER	DONE U 0815 0728 S0	Vial-D
L1622656-03	WQ2-C_071816_SW_1) S DOC-9060	WATER	DONE U 0815 0728 S0	Vial-D
L1622656-04	WQ3-L_071816_SW_1	S DOC-9060	WATER	DONE U 0815 0728 S0	Vial-D
L1622656-05	ES-15_071816_SW_10	S DOC-9060	WATER	DONE U 0815 0728 S0	Vial-D
L1622656-06	WQ-ECH_071816_SW_	LO S DOC-9060	WATER	DONE U 0815 0728 S0	Vial-D
L1622656-07	WQ-ECH_071816_SW_	LO_ S DOC-9060	WATER	DONE U 0815 0728 S0	Vial-D
L1622656-08	WQ-FPT_071816_SW_	LO S DOC-9060	WATER	DONE U 0815 0728 S0	Vial-D
WG917343-1	Laboratory Method	Bl S DOC-9060	WATER	DONE U	
WG917343-2	Laboratory Control	L S S DOC-9060	WATER	DONE U	
WG917343-3	Duplicate Sample	S DOC-9060	WATER	DONE U	
WG917343-4	Matrix Spike	S DOC-9060	WATER	DONE U	
Comments:					
WG917343-3	L1622656-06				
WG917343-4	L1622656-06				

Page 1

Alpha Report





ANALYTICAL REPORT

Lab Number: L1622656

Client: AMEC Foster Wheeler E & I, Inc.

511 Congress Street

P.O. Box 7050

Portland, ME 04112-7050

ATTN: Rod Pendleton Phone: (207) 828-3692

Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052 Report Date: 07/28/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Serial_No:07281616:03

Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052

Lab Number: L1622656 **Report Date:** 07/28/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1622656-01	OV-02_071816_SW_10	WATER	PENOBSCOT RIVER	07/18/16 07:45	07/21/16
L1622656-02	WQ1B-C_071816_SW_10	WATER	PENOBSCOT RIVER	07/18/16 16:30	07/21/16
L1622656-03	WQ2-C_071816_SW_10	WATER	PENOBSCOT RIVER	07/18/16 15:15	07/21/16
L1622656-04	WQ3-L_071816_SW_10	WATER	PENOBSCOT RIVER	07/18/16 14:00	07/21/16
L1622656-05	ES-15_071816_SW_10	WATER	PENOBSCOT RIVER	07/18/16 13:15	07/21/16
L1622656-06	WQ-ECH_071816_SW_10	WATER	PENOBSCOT RIVER	07/18/16 12:00	07/21/16
L1622656-07	WQ- ECH_071816_SW_10_DUP	WATER	PENOBSCOT RIVER	07/18/16 12:00	07/21/16
L1622656-08	WQ-FPT_071816_SW_10	WATER	PENOBSCOT RIVER	07/18/16 11:00	07/21/16



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656

Project Number: 3616166052 Report Date: 07/28/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



Serial_No:07281616:03

Project Name:PENOBSCOT RIVER ESTUARYLab Number:L1622656Project Number:3616166052Report Date:07/28/16

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were received via express courier in a cooler with ice; however, the ice was melted and the samples were above the required temperature range. The client was notified of the exceedance, and all requested analyses were performed.

Dissolved Organic Carbon

The samples were field filtered; a filter blank was not received.

The WG917343-4 MS recovery (29%), performed on L1622656-06, is outside the acceptance criteria; however, the associated LCS recovery is within criteria. No further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Whole M. Morris

Authorized Signature:

Title: Technical Director/Representative

Date: 07/28/16



INORGANICS & MISCELLANEOUS



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656

SAMPLE RESULTS

 Lab ID:
 L1622656-01
 Date Collected:
 07/18/16 07:45

 Client ID:
 OV-02_071816_SW_10
 Date Received:
 07/21/16

Client ID: OV-02_071816_SW_10 Date Received: 07/21/16
Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lal	b								
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	07/25/16 15:05	121,2540D	SG
Dissolved Organic Carbon	5.8		mg/l	1.0	0.04	1	07/27/16 06:57	07/27/16 06:57	1,9060A	DW



07/18/16 16:30

Date Collected:

Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656

Project Number: 3616166052 **Report Date:** 07/28/16

SAMPLE RESULTS

Lab ID: L1622656-02

Client ID: WQ1B-C_071816_SW_10 Date Received: 07/21/16

Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab)								
Solids, Total Suspended	10.		mg/l	5.0	NA	1	-	07/25/16 15:05	121,2540D	SG
Dissolved Organic Carbon	2.4		mg/l	1.0	0.04	1	07/27/16 06:57	07/27/16 06:57	1,9060A	DW



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656

SAMPLE RESULTS

Lab ID: L1622656-03 Date Collected: 07/18/16 15:15
Client ID: WQ2-C_071816_SW_10 Date Received: 07/21/16

Client ID: WQ2-C_071816_SW_10 Date Received: 07/21/16
Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough L	ab								
Solids, Total Suspended	18.		mg/l	5.0	NA	1	-	07/25/16 15:05	121,2540D	SG
Dissolved Organic Carbon	0.76	J	mg/l	1.0	0.04	1	07/27/16 06:57	07/27/16 06:57	1,9060A	DW



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656

SAMPLE RESULTS

 Lab ID:
 L1622656-04
 Date Collected:
 07/18/16 14:00

 Client ID:
 WQ3-L_071816_SW_10
 Date Received:
 07/21/16

Client ID: WQ3-L_071816_SW_10 Date Received: 07/21/16
Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough L	ab								
Solids, Total Suspended	14.		mg/l	5.0	NA	1	-	07/25/16 15:05	121,2540D	SG
Dissolved Organic Carbon	0.41	J	mg/l	1.0	0.04	1	07/27/16 06:57	07/27/16 06:57	1,9060A	DW



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656

Project Number: 3616166052 **Report Date:** 07/28/16

SAMPLE RESULTS

Lab ID: L1622656-05 Date Collected: 07/18/16 13:15

Client ID: ES-15_071816_SW_10 Date Received: 07/21/16

Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough La	ab								
Solids, Total Suspended	8.7		mg/l	5.0	NA	1	-	07/25/16 15:05	121,2540D	SG
Dissolved Organic Carbon	0.24	J	mg/l	1.0	0.04	1	07/27/16 06:57	07/27/16 06:57	1,9060A	DW



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656

Project Number: Report Date: 07/28/16 3616166052

SAMPLE RESULTS

Lab ID: L1622656-06

Date Collected: 07/18/16 12:00 WQ-ECH_071816_SW_10 Client ID: Date Received: 07/21/16

PENOBSCOT RIVER Field Filtered (DOC) Sample Location: Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough La	ab								
Solids, Total Suspended	9.2		mg/l	5.0	NA	1	-	07/25/16 15:05	121,2540D	SG
Dissolved Organic Carbon	0.29	J	mg/l	1.0	0.04	1	07/27/16 06:57	07/27/16 06:57	1,9060A	DW



07/18/16 12:00

Date Collected:

Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656

Project Number: 3616166052 **Report Date:** 07/28/16

SAMPLE RESULTS

Lab ID: L1622656-07

Client ID: WQ-ECH_071816_SW_10_DUP Date Received: 07/21/16

Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Resul	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough L	ab								
Solids, Total Suspended	9.5		mg/l	5.0	NA	1	-	07/25/16 15:05	121,2540D	SG
Dissolved Organic Carbon	0.24	J	mg/l	1.0	0.04	1	07/27/16 06:57	07/27/16 06:57	1,9060A	DW



07/18/16 11:00

Date Collected:

Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656

Project Number: 3616166052 **Report Date:** 07/28/16

SAMPLE RESULTS

Lab ID: L1622656-08

Client ID: WQ-FPT_071816_SW_10 Date Received: 07/21/16

Sample Location: PENOBSCOT RIVER Field Prep: Field Filtered (DOC)

Parameter	Result	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough La	ab								
Solids, Total Suspended	7.2		mg/l	5.0	NA	1	-	07/25/16 15:05	121,2540D	SG
Dissolved Organic Carbon	0.19	J	mg/l	1.0	0.04	1	07/27/16 06:57	07/27/16 06:57	1,9060A	DW



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656

Project Number: 3616166052 **Report Date:** 07/28/16

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lab for sam	nple(s): 01	I-08 Ba	tch: WC	G916634-1				
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	07/25/16 15:05	121,2540D	SG
General Chemistry - We	stborough Lab for sam	nple(s): 01	I-08 Ba	tch: WC	G917343-1				
Dissolved Organic Carbon	ND	mg/l	1.0	0.04	1	07/27/16 06:57	07/27/16 06:57	1,9060A	DW



Lab Control Sample Analysis Batch Quality Control

Lab Number: L1622656

Project Number: 3616166052 Report Date: 07/28/16

Parameter	LCS %Recovery Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab A	ssociated sample(s): 01-08	Batch: WG9173	43-2				
Dissolved Organic Carbon	100	-		90-110	-		



Project Name:

PENOBSCOT RIVER ESTUARY

Matrix Spike Analysis Batch Quality Control

Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052

Lab Number:

L1622656

Report Date:

07/28/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery Qu	Recovery ual Limits	RPD Qua	RPD Limits
General Chemistry - Westborou ECH_071816_SW_10	igh Lab Asso	ociated samp	le(s): 01-08	QC Batch II	D: WG9 ²	17343-4	QC Sample: L162	22656-06 Clier	nt ID: WQ-	
Dissolved Organic Carbon	0.29J	8	2.3	29	Q	-	-	79-120	-	20



Lab Duplicate Analysis Batch Quality Control

Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052

Lab Number:

L1622656

Report Date:

07/28/16

Parameter	Native Sam	ple D	ouplicate Samp	le Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab A ECH_071816_SW_10	Associated sample(s): 01-08	QC Batch ID:	WG916634-2	QC Sample:	L1622656-06	Client ID:	WQ-
Solids, Total Suspended	9.2		8.9	mg/l	3		29
General Chemistry - Westborough Lab A ECH_071816_SW_10	Associated sample(s): 01-08	QC Batch ID:	WG917343-3	QC Sample:	L1622656-06	Client ID:	WQ-
Dissolved Organic Carbon	0.29J		0.25J	mg/l	NC		20



Lab Number: L1622656

Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052 **Report Date:** 07/28/16

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information Custody Seal

Cooler

A Absent

Container Info	rmation		Temp				
Container ID	Container Type	Cooler	рН	•	Pres	Seal	Analysis(*)
L1622656-01A	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-01B	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-01C	Plastic 950ml unpreserved	Α	7	10.2	Υ	Absent	TSS-2540(7)
L1622656-02A	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-02B	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-02C	Plastic 950ml unpreserved	Α	7	10.2	Υ	Absent	TSS-2540(7)
L1622656-03A	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-03B	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-03C	Plastic 950ml unpreserved	Α	7	10.2	Υ	Absent	TSS-2540(7)
L1622656-04A	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-04B	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-04C	Plastic 950ml unpreserved	Α	7	10.2	Υ	Absent	TSS-2540(7)
L1622656-05A	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-05B	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-05C	Plastic 950ml unpreserved	Α	7	10.2	Υ	Absent	TSS-2540(7)
L1622656-06A	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-06A1	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-06A2	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-06B	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-06B1	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-06B2	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-06C	Plastic 950ml unpreserved	Α	7	10.2	Υ	Absent	TSS-2540(7)
L1622656-06C1	Plastic 950ml unpreserved	Α	7	10.2	Υ	Absent	TSS-2540(7)
L1622656-06C2	Plastic 950ml unpreserved	Α	7	10.2	Υ	Absent	TSS-2540(7)
L1622656-07A	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-07B	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-07C	Plastic 950ml unpreserved	Α	7	10.2	Υ	Absent	TSS-2540(7)
L1622656-08A	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)
L1622656-08B	Vial H2SO4 preserved	Α	N/A	10.2	Υ	Absent	DOC-9060(28)



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656

Container Information

Container ID Container Type

Cooler pH deg C Pres Seal Analysis(*)

L1622656-08C Plastic 950ml unpreserved A 7 10.2 Y Absent TSS-2540(7)



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656

Project Number: 3616166052 Report Date: 07/28/16

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated

values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for

which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less

precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound

list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a "Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers



Project Name:PENOBSCOT RIVER ESTUARYLab Number:L1622656Project Number:3616166052Report Date:07/28/16

Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
 of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- RE Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: PENOBSCOT RIVER ESTUARY Lab Number: L1622656
Project Number: 3616166052 Report Date: 07/28/16

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Published Date: 2/3/2016 10:23:10 AM

ID No.:17873

Revision 6

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Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene

EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene

EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.

EPA 1010A: NPW: Ignitability

EPA 6010C: NPW: Strontium; SCM: Strontium

EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate

(soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-

Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation EPA 9038: NPW: Sulfate

EPA 9050A: NPW: Specific Conductance EPA 9056: NPW: Chloride, Nitrate, Sulfate

EPA 9065: NPW: Phenols EPA 9251: NPW: Chloride SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane

SM 2540D: TSS

SM2540G: SCM: Percent Solids EPA 1631E: SCM: Mercury EPA 7474: SCM: Mercury

EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA 8270-SIM: NPW and SCM: Alkylated PAHs.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.

Biological Tissue Matrix: 8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A: Lead; 8270D: bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; EPA 200.7: Ba,Be,Ca,Cd,Cr,Cu,Na; EPA 245.1: Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1,

SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F,

EPA 353.2: Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Pre-Qualtrax Document ID: 08-113 Document Type: Form

Chain Of Custody/Analysis Request Form

11422456

USDC - Penobscot River

Lab: Alpha

AMEC, Suite 200, 511 Congress Street, Portland, ME Tech Lead - Louise Venne Work# 770-421-3461 Proj Chemist - Denise King 508-789-1738

AMEC Joh Number = 3616166052

Samp #	Sample Date	Sample Time	Field Sample ID	QC Code	Qty Total	Qty Each	1	Bottle Size and Material	Preservative	Media	Method	Fraction
1523	7/18/2016	7:45	OV-02_071816_SW_10		3							
				FS		1 1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	Т
				FS		2 40) ml	_ Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	Ť
1524	7/18/2016	16:30	WQ1b-c_071816_SW_10		3							
				FS		2 40	mt	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T
				FS		1 1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T
1525	7/18/2016	15:15	WQ2-c_071816_SW_10		3							
				FS		2 40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T
				FS		1 1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	Т
1526	7/18/2016	14:00	WQ3-L_071816_SW_10		3							
				FS		2 40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T
				FS		1 1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T
1527	7/18/2016	13:15	ES-15_071816_SW_10		3							
				FS		2 40	mL	. Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T
				FS		1 1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T

Wednesday, July 20, 2016

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L1622656

Samp #	Sample Date	Sample Time	Field Sample ID	QC Code	Qty Total	Qt Ea			Bottle Size and Material	Preservative	Media	Method	Fraction			
1528	7/18/2016	12:00	WQ-ECH_071816_SW_10		3											
				FS		2	40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	Ť			
				FS		1	1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T			
1529	7/18/2016	12:00	WQ-ECH_071816_SW_10	_DUP	3											
				FD		1	1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T			
				FD		2	40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T			
1530	7/18/2016	12:00	WQ-ECH_071816_SW_10	_MS	3											
			VOLUME FOR	MS		1	1	Ĺ	Plastic	4 deg C	sw	TSS (Mod 2450D)	T			
		MATI	rix spike	MS		2	40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	Т			
1531	7/18/2016	12:00	WQ-ECH_071816_SW_10	_MD	3											
	MATRIX	RA-VOL	DLUME FOR	MSD		2	40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	T			
		MA	TRIX	TRIX:	ATRIX	ARIX	SPIKE DUP	MSD		1	1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)
1532	7/18/2016	11:00	WQ-FPT_071816_SW_10		3											
				FS		1	1	L	Plastic	4 deg C	sw	TSS (Mod 2450D)	T			
				FS		2 -	40	mL	Glass Vial	H2SO4/4 deg C	sw	DOC (SW846 9060)	Т			

QC Codes: FS = Field Sample, EB = Equipment Rinsate Blank, MS - Matrix Spike, MSD = Matrix Spike Duplicate

Relinquished:	Jeli Pallogy	Date:		12016	Time: 1724
Received:	grow AM	Date: _ 7	121	16	Time: 11:30
	ALDONIAT: COOK O	E 101 91091			

Wednesday, July 20, 2016

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