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Level IV Data Package

MWH Group 207230

Method: 300.0B

Sample No.:

2706120332

2706120335

DBP QC Checklist

Analysis Date: 06-13-07 Analyst: Raja

QC'd by MUE Date 06/18/07

Instrument: IC 12

Batch #1

Calibration including QCS(Secondary Source)

- ✓ Correlation Coefficient of calibration curve for linear curve is 0.995 or better. (0.99 for quadratic)
✓ CLO2 ✓ CLO3 ✓ BR

Initial QC Check Samples (MCV, CCB, MBLANK, MRL) to be analyzed with every batch (up to 20 samples) or part thereof

- ✓ MCV is analyzed before samples:
✓ CLO2/CLO3: 90-110% (180-220ppb) ✓ BR: 90-110% (90-110ppb)
- ✓ CCB is analyzed before samples and after MCV and HCV
- ✓ MLBANK is analyzed before samples. ✓ CLO2/CLO3 ✓ BR, if present, is < or = half of the MRL.
- ✓ CLO2: MRL at 10ppb is within 75%-125% (7.5-12.5ppb)
- ✓ CLO3: MRL at 10ppb is within 75%-125% (7.5-12.5ppb)
- ✓ BR: MRL at 5.0ppb is within 75%-125% (3.75-6.25ppb)

LCS/LCSD: Accepted criteria are between 90-110% recovery

- ✓ CLO2: 180-220ppb for 200ppb
- ✓ CLO3: 180-220ppb for 200ppb
- ✓ BR: 90-110ppb for 100ppb
- ✓ One pair analyzed per batch (up to 20 samples) or part thereof

MS/MSD: Acceptance criteria are between 75%-125% recovery.

- ✓ CLO2: 75-125ppb for 100ppb spike
- ✓ CLO3: 75-125ppb for 100ppb spike
- ✓ BR: 37.5-62.5ppb for 50ppb spike
- ✓ RPD between MS/MSD is within 15%
- ✓ One pair, and one MS is analyzed per batch (up to 20 samples) or part thereof

Continuing Calibration Verification (MCV and HCV) are required

- ✓ MCV recovery is between 90-110%
- ✓ CLO2 (180-220ppb) ✓ CLO3 (180-220ppb) ✓ BR (90-110ppb)
- ✓ HCV recovery is between 90-110%
- ✓ CLO2 (720-880ppb) ✓ CLO3 (720-880ppb) ✓ BR (360-440ppb)

Samples

- ✓ All samples for CLO3 and BR are analyzed within 28 days of collection.
- ✓ All samples for CLO2 are analyzed within 14 days of collection.

QIR

QIR needed for failed QC

QIR

QIR needed for samples analyzed outside of hold time

DBP QC Checklist

Analysis Date: 06-14-07 Analyst: Paje

QC'd by MWG Date 06/18/07

Instrument: IC12

Calibration including QCS(Secondary Source)

Correlation Coefficient of calibration curve for linear curve is 0.995 or better. (0.99 for quadratic)

N/A CLO2

N/A CLO3

✓ BR

Batch #2

Initial QC Check Samples (MCV, CCB, MBLANK, MRL) to be analyzed with every batch (up to 20 samples) or part thereof

MCV is analyzed before samples:

N/A CLO2/CLO3: 90-110% (180-220ppb)

✓ BR: 90-110% (90-110ppb)

✓ CCB is analyzed before samples and after MCV and HCV

✓ MLBANK is analyzed before samples. N/A CLO2/CLO3 ✓ BR, if present, is $\leq$ half of the MRL.

N/A CLO2: MRL at 10ppb is within 75%-125% (7.5-12.5ppb)

N/A CLO3: MRL at 10ppb is within 75%-125% (7.5-12.5ppb)

✓ BR: MRL at 5.0ppb is within 75%-125% (3.75-6.25ppb)

LCS/LCSD: Accepted criteria are between 90-110% recovery

N/A CLO2: 180-220ppb for 200ppb

N/A CLO3: 180-220ppb for 200ppb

✓ BR: 90-110ppb for 100ppb

✓ One pair analyzed per batch (up to 20 samples) or part thereof

MS/MSD: Acceptance criteria are between 75%-125% recovery.

N/A CLO2: 75-125ppb for 100ppb spike

N/A CLO3: 75-125ppb for 100ppb spike

✓ BR: 37.5-62.5ppb for 50ppb spike

✓ RPD between MS/MSD is within 15%

✓ One pair, and one MS is analyzed per batch (up to 20 samples) or part thereof

Continuing Calibration Verification (MCV and HCV) are required

✓ MCV recovery is between 90-110%

N/A CLO2 (180-220ppb)

N/A CLO3 (180-220ppb)

✓ BR (90-110ppb)

✓ HCV recovery is between 90-110%

N/A CLO2 (720-880ppb)

N/A CLO3 (720-880ppb)

✓ BR (360-440ppb)

Samples

✓ All samples for CLO3 and BR are analyzed within 28 days of collection.

✓ All samples for CLO2 are analyzed within 14 days of collection.

QIR

N/A QIR needed for failed QC

N/A QIR needed for samples analyzed outside of hold time

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb C103 CD 1	
1,	wash,		06/12/07 11:05,	1.0,	n.a.	
2,	autocal1,		06/12/07 11:30,	1.0,	n.a.	
3,	autocal2,	RAJA060520-3	06/12/07 11:55,	1.0,	10.7525	
4,	autocal3,	RAJA060520-4	06/12/07 12:21,	1.0,	20.4242	
5,	autocal4,	RAJA060520-5	06/12/07 12:46,	1.0,	95.74	
6,	autocal5,	RAJA060520-6	06/12/07 13:12,	1.0,	204.3233	
7,	autocal6,	RAJA060520-7	06/12/07 13:37,	1.0,	398.5028	
8,	autocal7,	RAJA060520-8	06/12/07 14:02,	1.0,	800.1693	
9,	autocal4,	RAJA060520-5	06/12/07 14:28,	1.0,	95.8282	
10,	wash,		06/13/07 11:09,	1.0,	n.a.	
11,	MCV,	misinjection	06/13/07 11:35,	1.0,	n.a.	
12,	CCB,		06/13/07 12:20,	1.0,	n.a.	
13,	CCB,		06/13/07 12:21,	1.0,	n.a.	
14,	MCV,	rerun	06/13/07 12:47,	1.0,	200.4444	100%
15,	CCB,		06/13/07 13:12,	1.0,	n.a.	
16,	MRLCHK,		06/13/07 13:37,	1.0,	✓ 11.5079	115%
17,	MBLK,		06/13/07 14:03,	1.0,	n.a.	
18,	LCS1,		06/13/07 14:28,	1.0,	✓ 196.8449	98.4%
19,	LCS2,		06/13/07 14:54,	1.0,	✓ 194.8938	97.4%
20,	2706120400,	CLO2/CLO3	06/13/07 15:19,	1.0,	126.4708	✓
21,	2706120401,	CLO2/CLO3	06/13/07 15:44,	1.0,	n.a. ✓	
22,	2706120360,	CLO2/CLO3	06/13/07 16:10,	1.0,	n.a. ✓	
23,	2706120363,	CLO2/CLO3	06/13/07 16:35,	1.0,	107.2719	✓
24,	2706120364,	CLO2/CLO3	06/13/07 17:01,	1.0,	90.4366	✓
25,	2706120365,	CLO2/CLO3	06/13/07 17:26,	1.0,	118.5921	✓
26,	2706120234,	BR	06/13/07 17:51,	1.0,	n.a.	
27,	2706120235,	BR	06/13/07 18:17,	1.0,	n.a.	
28,	2706120235MS,		06/13/07 18:42,	1.0,	✓ 95.6769	95.7%
29,	2706120235MSD,		06/13/07 19:07,	1.0,	✓ 97.1648	97.2%
30,	2706120236-DNR,	BR	06/13/07 19:33,	1.0,	n.a.	
31,	2706120237,	BR	06/13/07 19:58,	1.0,	n.a.	
32,	MCV,		06/13/07 20:24,	1.0,	198.3222	99.2%
33,	CCB,		06/13/07 20:49,	1.0,	n.a.	
34,	2706120238,	BR	06/13/07 21:14,	1.0,	n.a.	
35,	2706120037_1/2,	BR	06/13/07 21:40,	2.0,	n.a.	
36,	2706120038_1/2-DNR,	BR	06/13/07 22:05,	2.0,	n.a.	
37,	2706120039_1/2,	BR	06/13/07 22:31,	2.0,	n.a.	
38,	2706120040_1/2,	BR	06/13/07 22:56,	2.0,	n.a.	
39,	2706120336,	CLO2	06/13/07 23:21,	1.0,	n.a.	
40,	2706120336MS,		06/13/07 23:47,	1.0,	92.7337	92.7%
41,	2706120336MSD,		06/14/07 00:12,	1.0,	94.9146	94.9%
42,	2706080305_1/5,	CLO2	06/14/07 00:38,	5.0,	285.8877	
43,	2706080306_1/5,	CLO2	06/14/07 01:03,	5.0,	309.1361	
44,	2706080307_1/5,	CLO2	06/14/07 01:28,	5.0,	306.3228	
45,	2706120335_1/5000,	CLO3	06/14/07 01:54,	5000.0,	469159.1	✓
46,	HCV,		06/14/07 02:19,	1.0,	808.1312	101%
47,	CCB,		06/14/07 02:45,	1.0,	n.a.	
48,	MCV,		06/14/07 03:10,	1.0,	200.9786	

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb ClO3 CD_1	
49,	CCB,		06/14/07 03:35,	1.0,	n.a.	
50,	MRLCHK,		06/14/07 04:01,	1.0,	8.1039	817.
51,	MBLK,		06/14/07 04:26,	1.0,	n.a.	
52,	LCS1,		06/14/07 04:52,	1.0,	194.836	977.
53,	LCS2,		06/14/07 05:17,	1.0,	197.861	997.
54,	2706120610_1/100,	BR	06/14/07 05:42,	100.0,	n.a.	
55,	2706120615,	BR	06/14/07 06:08,	1.0,	n.a.	
56,	2706120615MS,		06/14/07 06:33,	1.0,	92.711	937.
57,	2706120615MSD,		06/14/07 06:59,	1.0,	94.3053	947.
58,	2706120621,	BR	06/14/07 07:24,	1.0,	n.a.	
59,	2706120623_1/10-DNR,	BR	06/14/07 07:49,	10.0,	n.a.	
60,	2706120629_1/10-DNR,	BR	06/14/07 08:15,	10.0,	n.a.	
61,	2706120630_1/5,	BR	06/14/07 08:40,	5.0,	n.a.	
62,	2706120631_1/5-DNR,	BR	06/14/07 09:06,	5.0,	n.a.	
63,	2706120632_1/10,		06/14/07 09:31,	10.0,	n.a.	
64,	2706120633,	BR	06/14/07 09:56,	1.0,	n.a.	
65,	2706120634_1/2-DNR,	BR	06/14/07 10:22,	2.0,	n.a.	
66,	MCV,		06/14/07 10:47,	1.0,	198.2938	977.
67,	CCB,		06/14/07 11:43,	1.0,	n.a.	
68,	2706140339,	BR	06/14/07 12:08,	1.0,	n.a.	
69,	2706140339MS,		06/14/07 12:33,	1.0,	93.478	937.
70,	2706140339MSD,		06/14/07 12:59,	1.0,	91.9349	927.
71,	2706140340,	BR	06/14/07 13:24,	1.0,	n.a.	
72,	2706140341,	BR	06/14/07 13:50,	1.0,	n.a.	
73,	2706140342,	BR	06/14/07 14:15,	1.0,	n.a.	
74,	2706140343,	BR	06/14/07 14:40,	1.0,	n.a.	
75,	2706140344,	BR	06/14/07 15:06,	1.0,	n.a.	
76,	2706140345,	BR	06/14/07 15:31,	1.0,	n.a.	
77,	2706140346,	BR	06/14/07 15:57,	1.0,	n.a.	
78,	2706140347,	BR	06/14/07 16:22,	1.0,	n.a.	
79,	2706140348,	BR	06/14/07 16:47,	1.0,	n.a.	
80,	HCV,		06/14/07 17:13,	1.0,	807.6028	1017.
81,	CCB,		06/14/07 17:38,	1.0,	n.a.	

Sequence: 061307-DBP-IC12

Operator: raja

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Printed: 6/15/2007 12:35:28 PM

Title:

Datasource: Dionex_USPAS2SDIO2

Location: IC12_DBP\2007JUNE

Timebase: IC12

#Samples: 81

Created: 6/13/2007 11:08:41 AM by raja

Last Update: 6/15/2007 9:22:57 AM by raja

No.	Name	Comment	Dil. Factor	Sample ID	Type	Program	Method
1	wash		1.0000		Unknown	IC12 test Program	DBP-Method
2	autocal1		1.0000		Standard	IC12 test Program	DBP-Method
3	autocal2	RAJA060520-3	1.0000		Standard	IC12 test Program	DBP-Method
4	autocal3	RAJA060520-4	1.0000		Standard	IC12 test Program	DBP-Method
5	autocal4	RAJA060520-5	1.0000		Unknown	IC12 test Program	DBP-Method
6	autocal5	RAJA060520-6	1.0000		Standard	IC12 test Program	DBP-Method
7	autocal6	RAJA060520-7	1.0000		Standard	IC12 test Program	DBP-Method
8	autocal7	RAJA060520-8	1.0000		Standard	IC12 test Program	DBP-Method
9	autocal4	RAJA060520-5	1.0000		Standard	IC12 test Program	DBP-Method
10	wash		1.0000		Unknown	IC12 test Program	DBP-Method
11	MCV	misinjection	1.0000		Unknown	IC12 test Program	DBP-Method
12	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
13	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
14	MCV	rerun	1.0000		Unknown	IC12 test Program	DBP-Method
15	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
16	MRLCHK		1.0000		Unknown	IC12 test Program	DBP-Method
17	MBLK		1.0000		Unknown	IC12 test Program	DBP-Method
18	LCS1		1.0000		Unknown	IC12 test Program	DBP-Method
19	LCS2		1.0000		Unknown	IC12 test Program	DBP-Method
20	2706120400	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
21	2706120401	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
22	2706120360	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
23	2706120363	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
24	2706120364	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
25	2706120365	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
26	2706120234	BR	1.0000		Unknown	IC12 test Program	DBP-Method
27	2706120235	BR	1.0000		Unknown	IC12 test Program	DBP-Method
28	2706120235MS		1.0000		Unknown	IC12 test Program	DBP-Method
29	2706120235MSD		1.0000		Unknown	IC12 test Program	DBP-Method
30	2706120236-DNR	BR	1.0000		Unknown	IC12 test Program	DBP-Method
31	2706120237	BR	1.0000		Unknown	IC12 test Program	DBP-Method
32	MCV		1.0000		Unknown	IC12 test Program	DBP-Method
33	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
34	2706120238	BR	1.0000		Unknown	IC12 test Program	DBP-Method
35	2706120037_1/2	BR	2.0000		Unknown	IC12 test Program	DBP-Method
36	2706120038_1/2-DNR	BR	2.0000		Unknown	IC12 test Program	DBP-Method
37	2706120039_1/2	BR	2.0000		Unknown	IC12 test Program	DBP-Method
38	2706120040_1/2	BR	2.0000		Unknown	IC12 test Program	DBP-Method
39	2706120336	CLO2	1.0000		Unknown	IC12 test Program	DBP-Method
40	2706120336MS		1.0000		Unknown	IC12 test Program	DBP-Method
41	2706120336MSD		1.0000		Unknown	IC12 test Program	DBP-Method
42	2706080305_1/5	CLO2	5.0000		Unknown	IC12 test Program	DBP-Method

Sequence: 061307-DBP-IC12
Operator: raja

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Printed: 6/15/2007 12:35:28 PM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC1C12_DBP\2007JUNE
Timebase: IC12
#Samples: 81

Created: 6/13/2007 11:08:41 AM by raja
Last Update: 6/15/2007 9:22:57 AM by raja

No.	Name	Status	Inj. Date/Time	*Analyst
1	wash	Finished	6/12/2007 11:05:15 AM	raja
2	autocal1	Finished	6/12/2007 11:30:39 AM	raja
3	autocal2	Finished	6/12/2007 11:55:57 AM	raja
4	autocal3	Finished	6/12/2007 12:21:21 PM	raja
5	autocal4	Finished	6/12/2007 12:46:45 PM	raja
6	autocal5	Finished	6/12/2007 1:12:09 PM	raja
7	autocal6	Finished	6/12/2007 1:37:32 PM	raja
8	autocal7	Finished	6/12/2007 2:02:56 PM	raja
9	autocal4	Finished	6/12/2007 2:28:20 PM	raja
10	wash	Finished	6/13/2007 11:09:37 AM	raja
11	MCV	Finished	6/13/2007 11:35:02 AM	raja
12	CCB	Interrupted	6/13/2007 12:20:39 PM	raja
13	CCB	Finished	6/13/2007 12:21:37 PM	raja
14	MCV	Finished	6/13/2007 12:47:01 PM	raja
15	CCB	Finished	6/13/2007 1:12:25 PM	raja
16	MRLCHK	Finished	6/13/2007 1:37:49 PM	raja
17	MBLK	Finished	6/13/2007 2:03:13 PM	raja
18	LCS1	Finished	6/13/2007 2:28:37 PM	raja
19	LCS2	Finished	6/13/2007 2:54:01 PM	raja
20	2706120400	Finished	6/13/2007 3:19:24 PM	raja
21	2706120401	Finished	6/13/2007 3:44:48 PM	raja
22	2706120360	Finished	6/13/2007 4:10:12 PM	raja
23	2706120363	Finished	6/13/2007 4:35:36 PM	raja
24	2706120364	Finished	6/13/2007 5:01:00 PM	raja
25	2706120365	Finished	6/13/2007 5:26:23 PM	raja
26	2706120234	Finished	6/13/2007 5:51:47 PM	raja
27	2706120235	Finished	6/13/2007 6:17:11 PM	raja
28	2706120235MS	Finished	6/13/2007 6:42:35 PM	raja
29	2706120235MSD	Finished	6/13/2007 7:07:59 PM	raja
30	2706120236-DNR	Finished	6/13/2007 7:33:23 PM	raja
31	2706120237	Finished	6/13/2007 7:58:47 PM	raja
32	MCV	Finished	6/13/2007 8:24:10 PM	raja
33	CCB	Finished	6/13/2007 8:49:34 PM	raja
34	2706120238	Finished	6/13/2007 9:14:58 PM	raja
35	2706120037_1/2	Finished	6/13/2007 9:40:22 PM	raja
36	2706120038_1/2-DNR	Finished	6/13/2007 10:05:46 PM	raja
37	2706120039_1/2	Finished	6/13/2007 10:31:10 PM	raja
38	2706120040_1/2	Finished	6/13/2007 10:56:34 PM	raja
39	2706120336	Finished	6/13/2007 11:21:58 PM	raja
40	2706120336MS	Finished	6/13/2007 11:47:22 PM	raja
41	2706120336MSD	Finished	6/14/2007 12:12:45 AM	raja
42	2706080305_1/5	Finished	6/14/2007 12:38:09 AM	raja

Sequence: 061307-DBP-IC12

Operator: raja

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Printed: 6/15/2007 12:35:28 PM

Title:

Datasource: Dionex_USPAS2SDIO2

Location: IC12\DBP\2007JUNE

Timebase: IC12

#Samples: 81

Created: 6/13/2007 11:08:41 AM by raja

Last Update: 6/15/2007 9:22:57 AM by raja

No.	Name	Comment	Dil. Factor	Sample ID	Type	Program	Method
43	2706080306_1/5	CLO2	5.0000		Unknown	IC12 test Program	DBP-Method
44	2706080307_1/5	CLO2	5.0000		Unknown	IC12 test Program	DBP-Method
45	2706120335_1/5000	CLO3	5000.0000		Unknown	IC12 test Program	DBP-Method
46	HCV		1.0000		Unknown	IC12 test Program	DBP-Method
47	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
48	MCV		1.0000		Unknown	IC12 test Program	DBP-Method
49	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
50	MRLCHK		1.0000		Unknown	IC12 test Program	DBP-Method
51	MBLK		1.0000		Unknown	IC12 test Program	DBP-Method
52	LCS1		1.0000		Unknown	IC12 test Program	DBP-Method
53	LCS2		1.0000		Unknown	IC12 test Program	DBP-Method
54	2706120610_1/100	BR	100.0000		Unknown	IC12 test Program	DBP-Method
55	2706120615	BR	1.0000		Unknown	IC12 test Program	DBP-Method
56	2706120615MS		1.0000		Unknown	IC12 test Program	DBP-Method
57	2706120615MSD		1.0000		Unknown	IC12 test Program	DBP-Method
58	2706120621	BR	1.0000		Unknown	IC12 test Program	DBP-Method
59	2706120623_1/10-DNR	BR	10.0000		Unknown	IC12 test Program	DBP-Method
60	2706120629_1/10-DNR	BR	10.0000		Unknown	IC12 test Program	DBP-Method
61	2706120630_1/5	BR	5.0000		Unknown	IC12 test Program	DBP-Method
62	2706120631_1/5-DNR	BR	5.0000		Unknown	IC12 test Program	DBP-Method
63	2706120632_1/10		10.0000		Unknown	IC12 test Program	DBP-Method
64	2706120633	BR	1.0000		Unknown	IC12 test Program	DBP-Method
65	2706120634_1/2-DNR	BR	2.0000		Unknown	IC12 test Program	DBP-Method
66	MCV		1.0000		Unknown	IC12 test Program	DBP-Method
67	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
68	2706140339	BR	1.0000		Unknown	IC12 test Program	DBP-Method
69	2706140339MS		1.0000		Unknown	IC12 test Program	DBP-Method
70	2706140339MSD		1.0000		Unknown	IC12 test Program	DBP-Method
71	2706140340	BR	1.0000		Unknown	IC12 test Program	DBP-Method
72	2706140341	BR	1.0000		Unknown	IC12 test Program	DBP-Method
73	2706140342	BR	1.0000		Unknown	IC12 test Program	DBP-Method
74	2706140343	BR	1.0000		Unknown	IC12 test Program	DBP-Method
75	2706140344	BR	1.0000		Unknown	IC12 test Program	DBP-Method
76	2706140345	BR	1.0000		Unknown	IC12 test Program	DBP-Method
77	2706140346	BR	1.0000		Unknown	IC12 test Program	DBP-Method
78	2706140347	BR	1.0000		Unknown	IC12 test Program	DBP-Method
79	2706140348	BR	1.0000		Unknown	IC12 test Program	DBP-Method
80	HCV		1.0000		Unknown	IC12 test Program	DBP-Method
81	CCB		1.0000		Unknown	IC12 test Program	DBP-Method

Sequence: 061307-DBP-IC12

Operator: raja

Page 4 of 4

Printed: 6/15/2007 12:35:28 PM

Title:

Datasource: Dionex_USPAS2SDIO2

Location: ICVC12_DBP\2007JUNE

Timebase: IC12

#Samples: 81

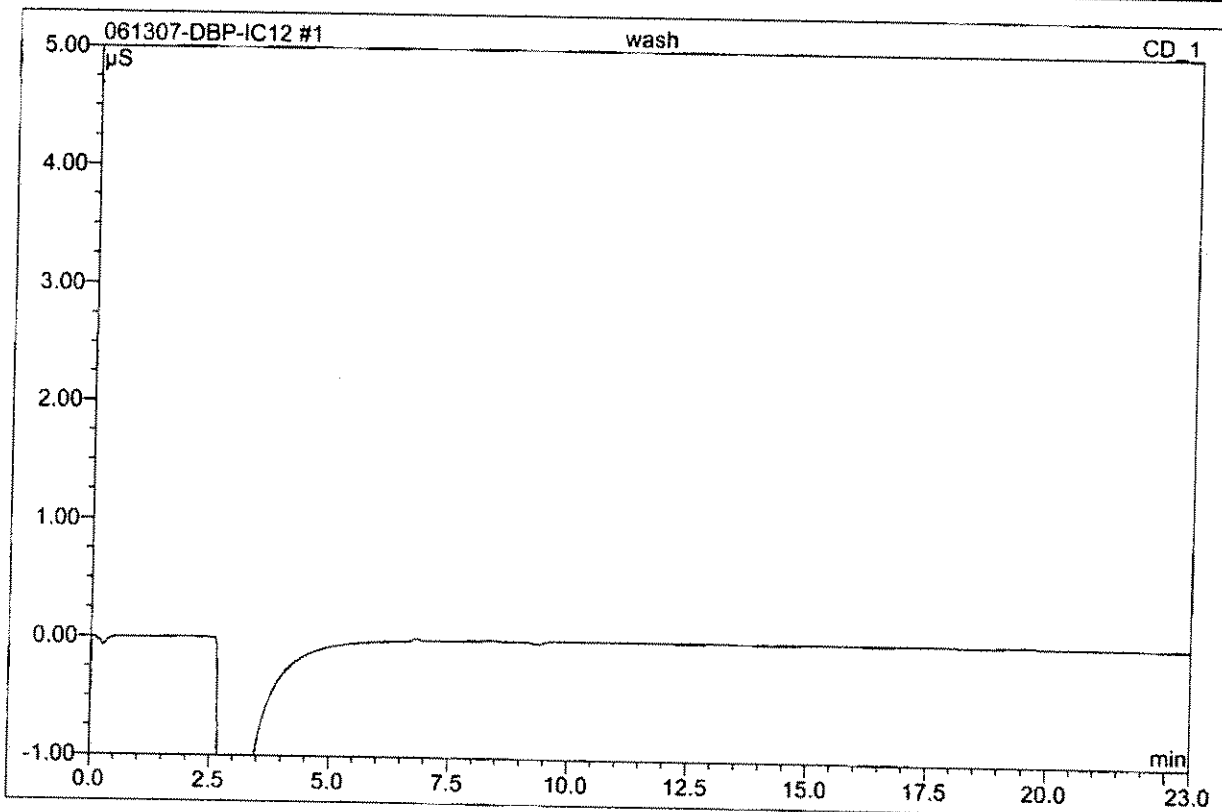
Created: 6/13/2007 11:08:41 AM by raja

Last Update: 6/15/2007 9:22:57 AM by raja

No.	Name	Status	Inj. Date/Time	*Analyst
43	2706080306_1/5	Finished	6/14/2007 1:03:33 AM	raja
44	2706080307_1/5	Finished	6/14/2007 1:28:57 AM	raja
45	2706120335_1/5000	Finished	6/14/2007 1:54:21 AM	raja
46	HCV	Finished	6/14/2007 2:19:45 AM	raja
47	CCB	Finished	6/14/2007 2:45:08 AM	raja
48	MCV	Finished	6/14/2007 3:10:32 AM	raja
49	CCB	Finished	6/14/2007 3:35:56 AM	raja
50	MRLCHK	Finished	6/14/2007 4:01:20 AM	raja
51	MBLK	Finished	6/14/2007 4:26:44 AM	raja
52	LCS1	Finished	6/14/2007 4:52:08 AM	raja
53	LCS2	Finished	6/14/2007 5:17:32 AM	raja
54	2706120610_1/100	Finished	6/14/2007 5:42:56 AM	raja
55	2706120615	Finished	6/14/2007 6:08:20 AM	raja
56	2706120615MS	Finished	6/14/2007 6:33:43 AM	raja
57	2706120615MSD	Finished	6/14/2007 6:59:07 AM	raja
58	2706120621	Finished	6/14/2007 7:24:31 AM	raja
59	2706120623_1/10-DNR	Finished	6/14/2007 7:49:55 AM	raja
60	2706120629_1/10-DNR	Finished	6/14/2007 8:15:19 AM	raja
61	2706120630_1/5	Finished	6/14/2007 8:40:43 AM	raja
62	2706120631_1/5-DNR	Finished	6/14/2007 9:06:07 AM	raja
63	2706120632_1/10	Finished	6/14/2007 9:31:31 AM	raja
64	2706120633	Finished	6/14/2007 9:56:55 AM	raja
65	2706120634_1/2-DNR	Finished	6/14/2007 10:22:19 AM	raja
66	MCV	Finished	6/14/2007 10:47:43 AM	raja
67	CCB	Finished	6/14/2007 11:43:10 AM	raja
68	2706140339	Finished	6/14/2007 12:08:34 PM	raja
69	2706140339MS	Finished	6/14/2007 12:33:58 PM	raja
70	2706140339MSD	Finished	6/14/2007 12:59:22 PM	raja
71	2706140340	Finished	6/14/2007 1:24:46 PM	raja
72	2706140341	Finished	6/14/2007 1:50:10 PM	raja
73	2706140342	Finished	6/14/2007 2:15:34 PM	raja
74	2706140343	Finished	6/14/2007 2:40:58 PM	raja
75	2706140344	Finished	6/14/2007 3:06:22 PM	raja
76	2706140345	Finished	6/14/2007 3:31:46 PM	raja
77	2706140346	Finished	6/14/2007 3:57:09 PM	raja
78	2706140347	Finished	6/14/2007 4:22:33 PM	raja
79	2706140348	Finished	6/14/2007 4:47:57 PM	raja
80	HCV	Finished	6/14/2007 5:13:21 PM	raja
81	CCB	Finished	6/14/2007 5:38:45 PM	raja

1 wash

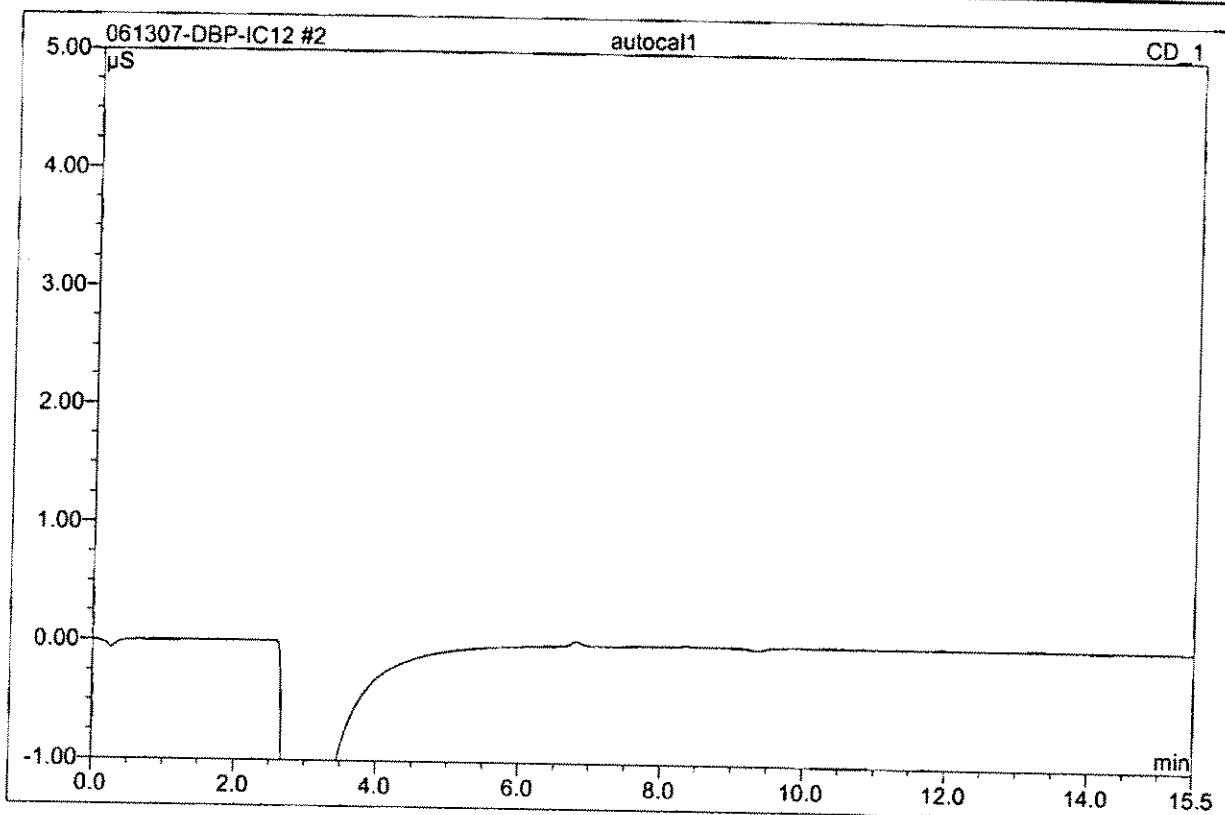
Sample Name:	wash	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 11:05	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

2 autocal1

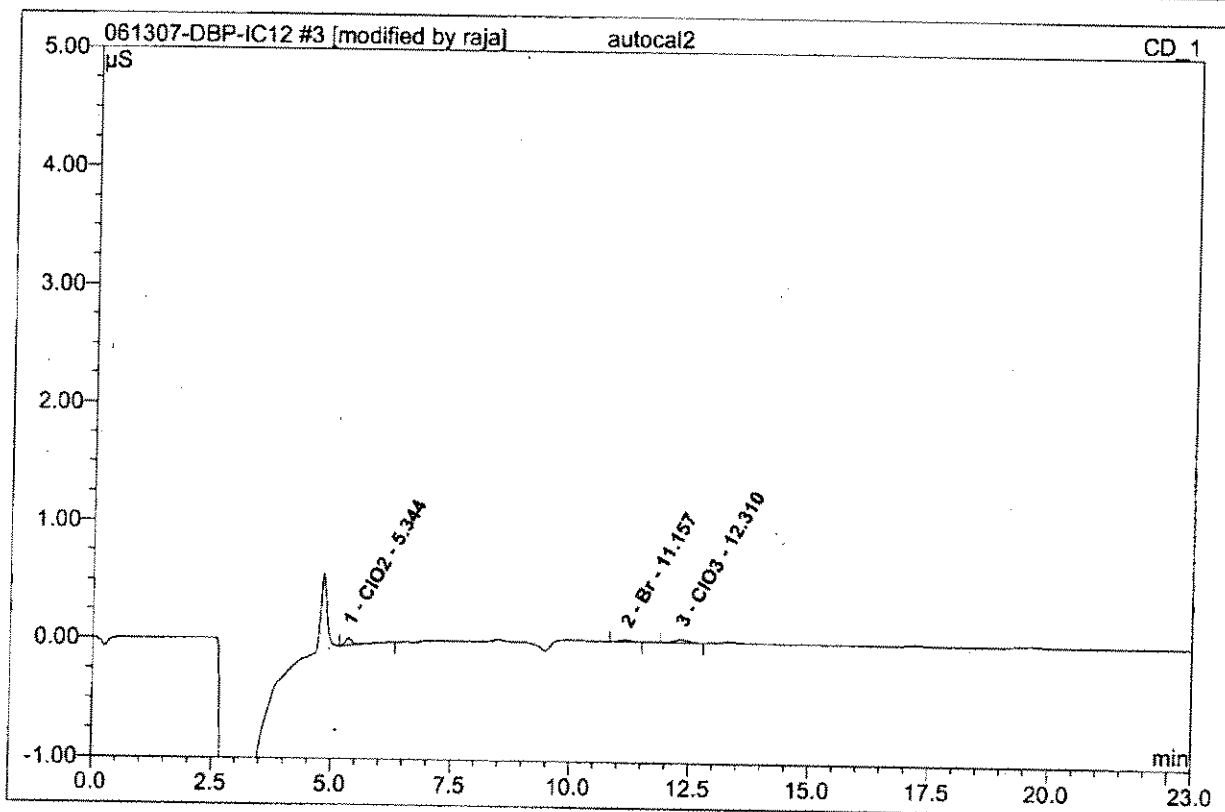
Sample Name:	autocal1	Injection Volume:	1000.0
Vial Number:	334	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 11:30	Sample Weight:	1.0000
Run Time (min):	15.48	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

3 autocal2**RAJA060520-3**

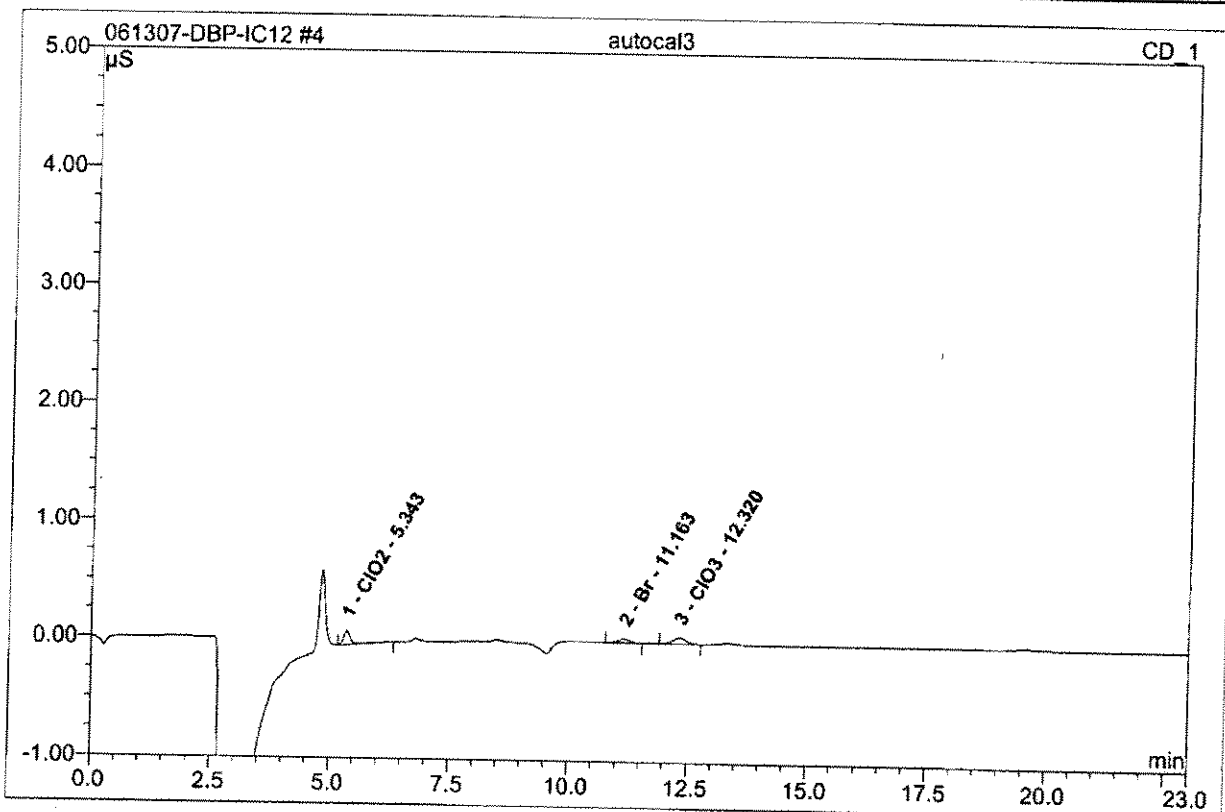
Sample Name:	autocal2	Injection Volume:	1000.0
Vial Number:	335	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 11:55	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.34	CIO2	0.060	0.012	50.12	9.565	BMB
2	11.16	Br	0.016	0.004	17.27	4.865	BMB*
3	12.31	CIO3	0.026	0.008	32.61	10.752	BMB
Total:			0.102	0.025	100.00	25.183	

4 autocal3**RAJA060520-4**

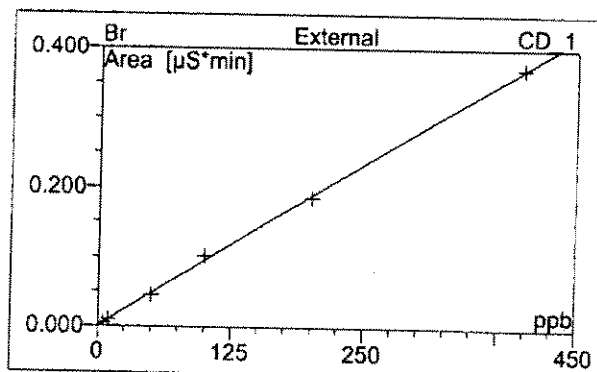
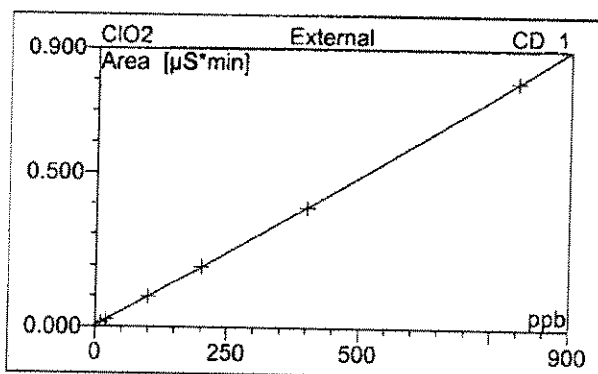
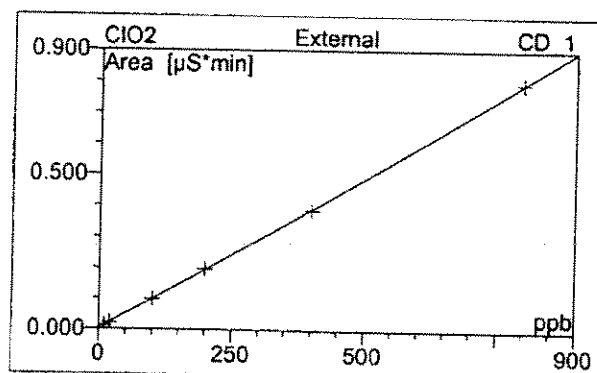
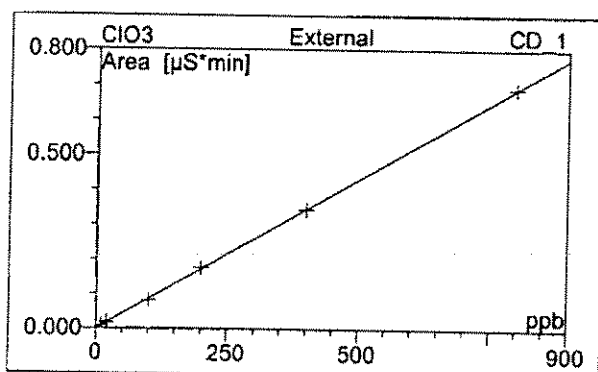
Sample Name:	autocal3	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 12:21	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.34	CIO2	0.118	0.022	46.30	19.532	BMB
2	11.16	Br	0.032	0.009	18.77	9.590	BMB
3	12.32	CIO3	0.052	0.016	34.94	20.424	BMB
Total:			0.202	0.047	100.00	49.546	

4 autocal3**RAJA060520-4**

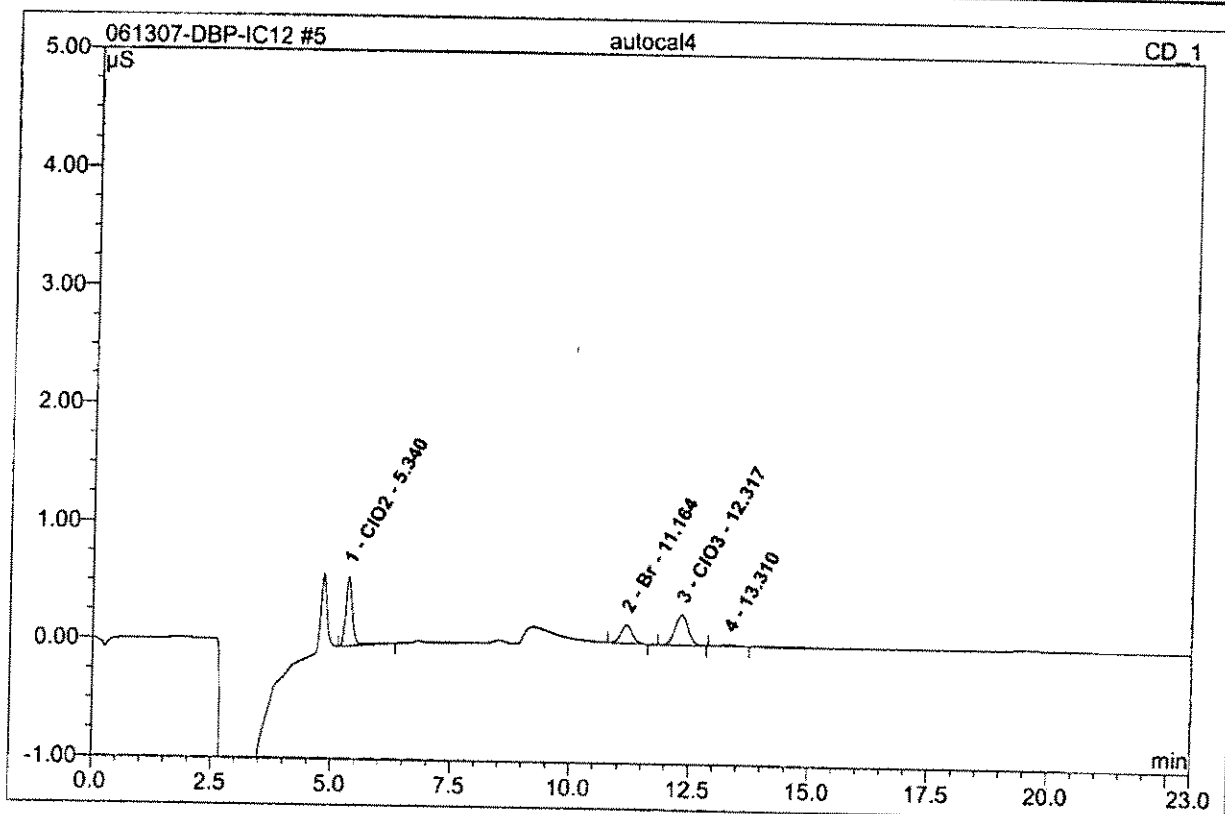
Sample Name:	autocal3	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 12:21	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	5.34	ClO2	QOff	6	99.9889	0.0035	0.0009	0.0000
2	11.16	Br	QOff	6	99.9617	-0.0004	0.0010	0.0000
3	12.32	ClO3	QOff	6	99.9957	-0.0012	0.0009	0.0000
Average:					99.9821	0.0006	0.0009	0.0000

5 autocal4**RAJA060520-5**

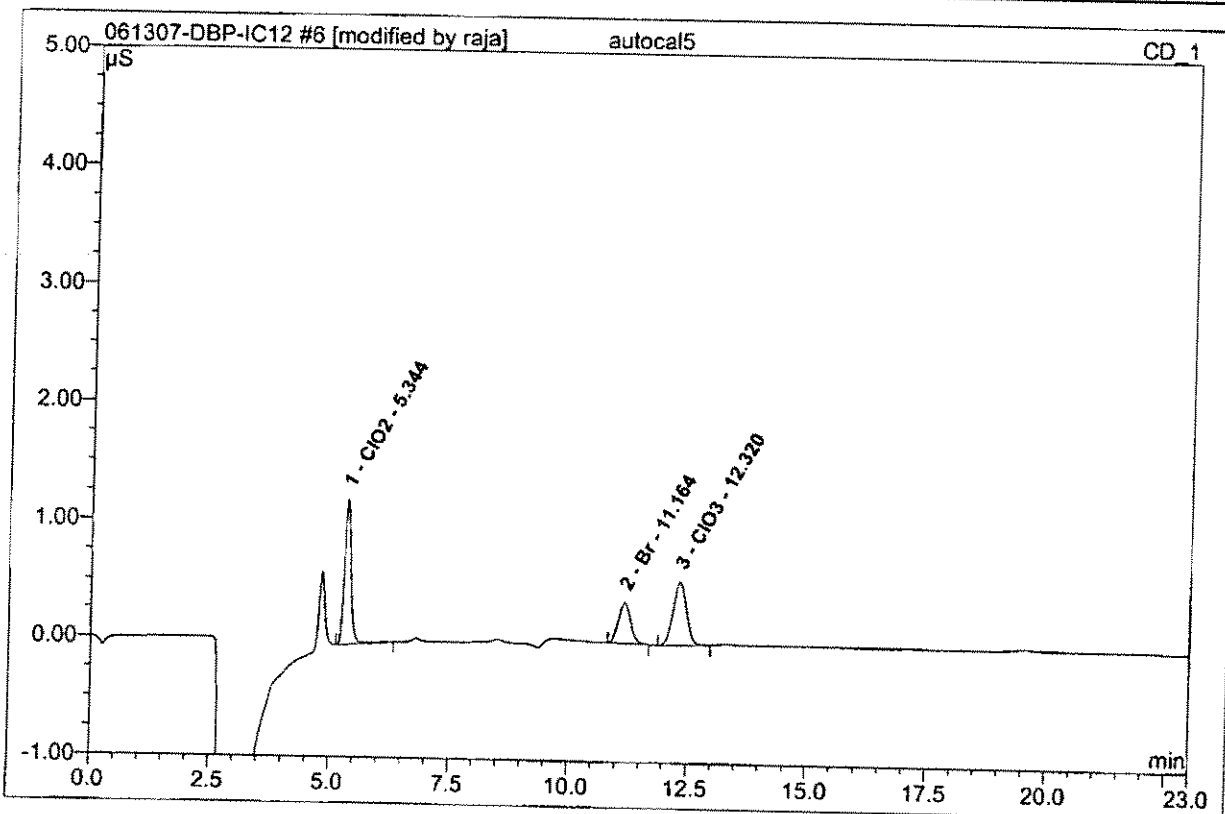
Sample Name:	autocal4	Injection Volume:	1000.0
Vial Number:	337	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 12:46	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	ClO2	0.589	0.095	42.15	97.024	BMB
2	11.16	Br	0.157	0.044	19.45	46.048	BMB
3	12.32	ClO3	0.254	0.082	36.16	95.740	BMB
4	13.31	n.a.	0.014	0.005	2.24	n.a.	BMB
Total:			1.014	0.226	100.00	238.813	

6 autocal5**RAJA060520-6**

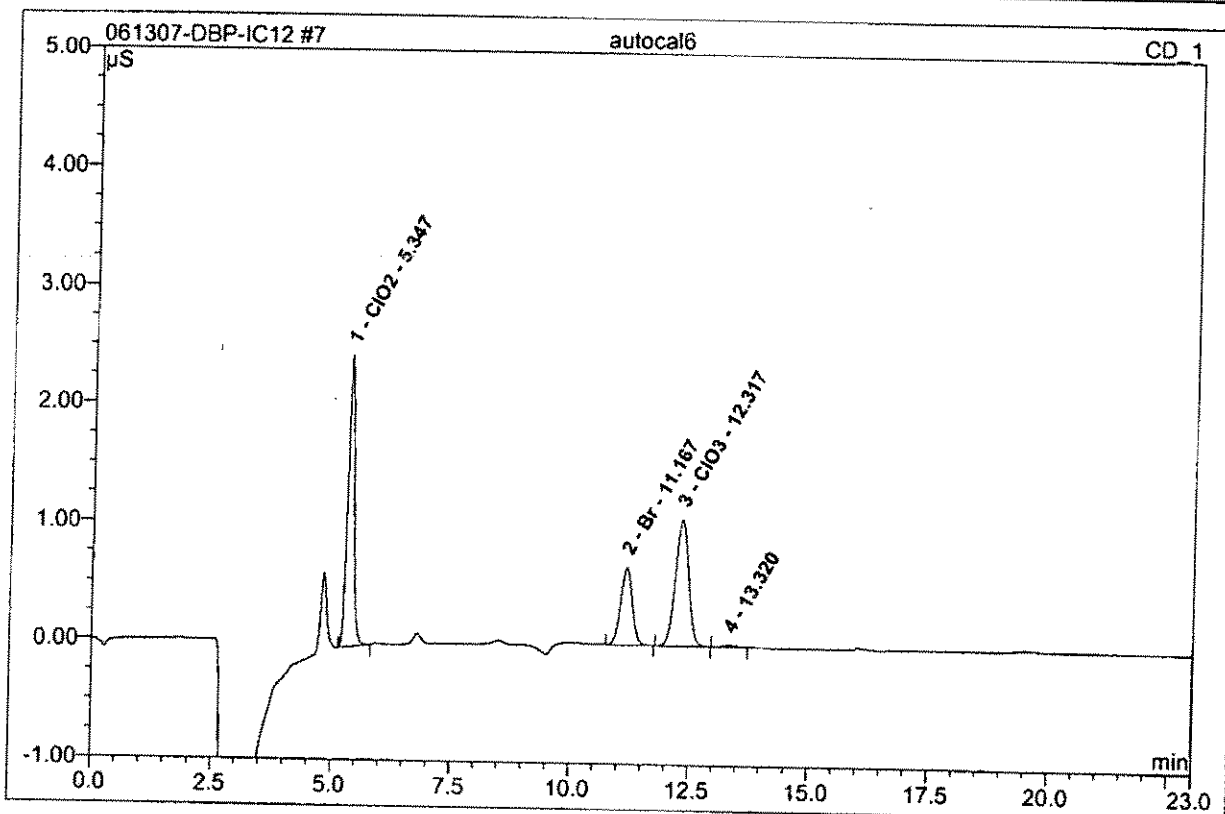
Sample Name:	autocal5	Injection Volume:	1000.0
Vial Number:	338	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 13:12	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.34	CIO2	1.228	0.196	41.47	202.803	BMB
2	11.16	Br	0.346	0.102	21.49	106.885	BMB*
3	12.32	CIO3	0.540	0.175	37.04	204.323	BMB
Total:			2.114	0.474	100.00	514.011	

7 autocal6**RAJA060520-7**

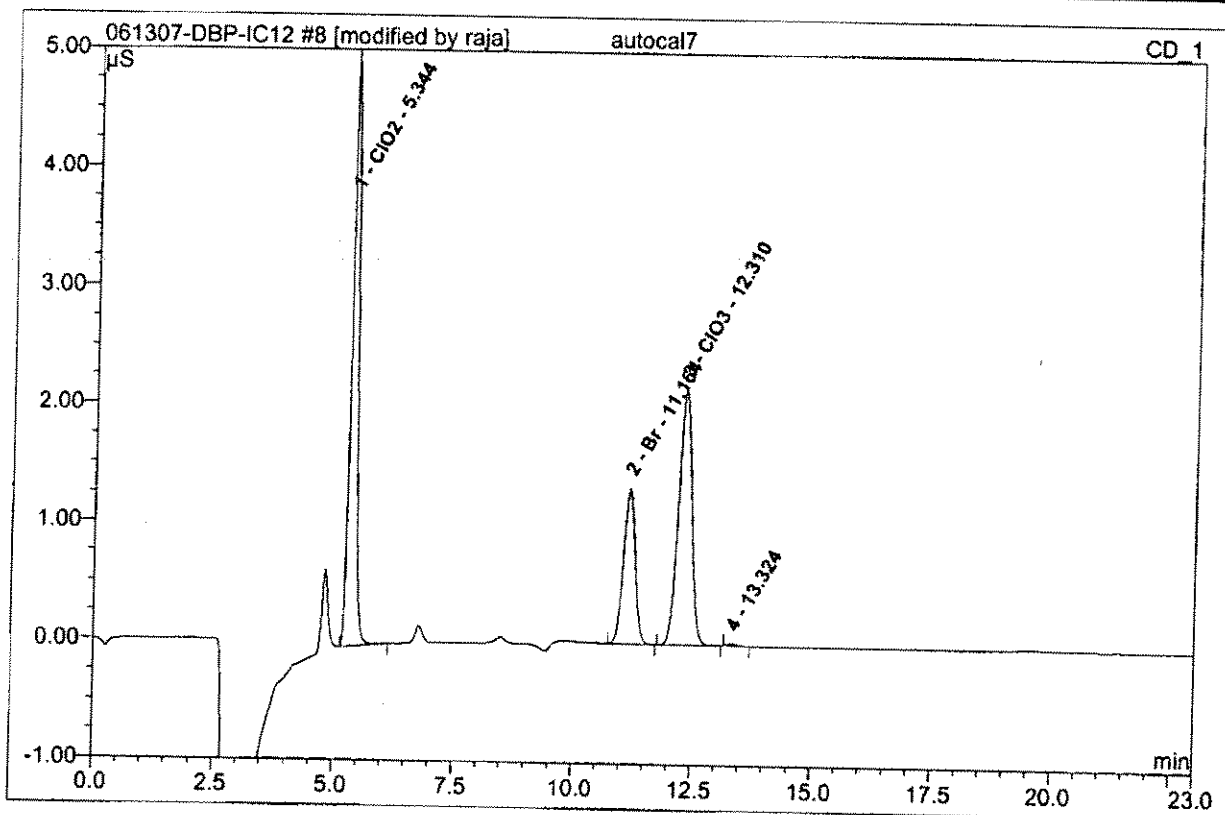
Sample Name:	autocal6	Injection Volume:	1000.0
Vial Number:	334	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 13:37	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppb	Type
1	5.35	ClO2	2.461	0.387	42.05	398.158	BMB
2	11.17	Br	0.656	0.186	20.15	196.188	BMB
3	12.32	ClO3	1.067	0.343	37.24	398.503	BMB
4	13.32	n.a.	0.016	0.005	0.55	n.a.	BMB
Total:			4.200	0.921	100.00	992.849	

8 autocal7**RAJA060520-8**

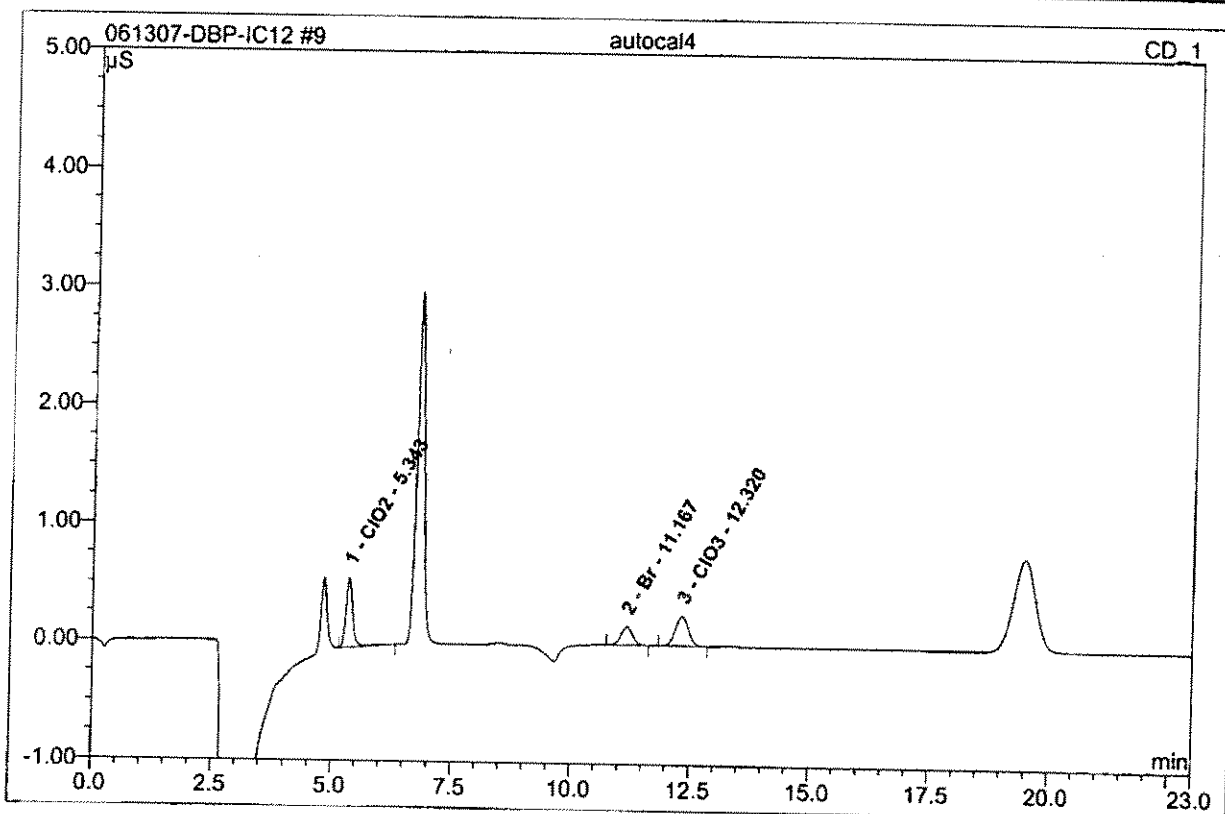
Sample Name:	autocal7	Injection Volume:	1000.0
Vial Number:	334	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 14:02	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	ClO2	5.067	0.795	42.79	800.281	BMB*
2	11.16	Br	1.317	0.372	20.01	400.589	BMB
3	12.31	ClO3	2.156	0.688	37.04	800.169	BMB*
4	13.32	n.a.	0.013	0.003	0.17	n.a.	BMB*
Total:			8.553	1.858	100.00	2001.039	

9 autocal4**RAJA060520-5**

Sample Name:	autocal4	Injection Volume:	1000.0
Vial Number:	335	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 14:28	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000

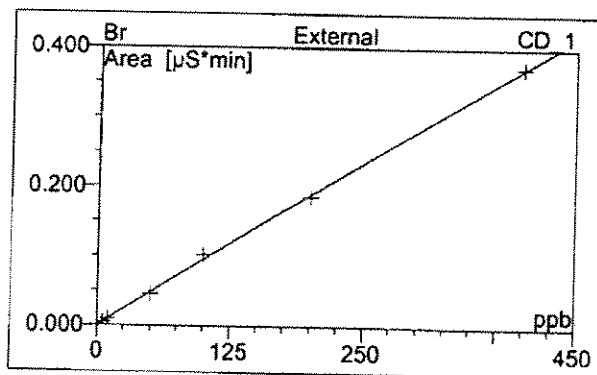
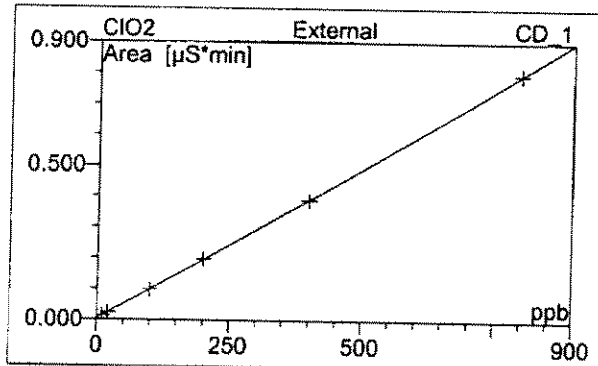
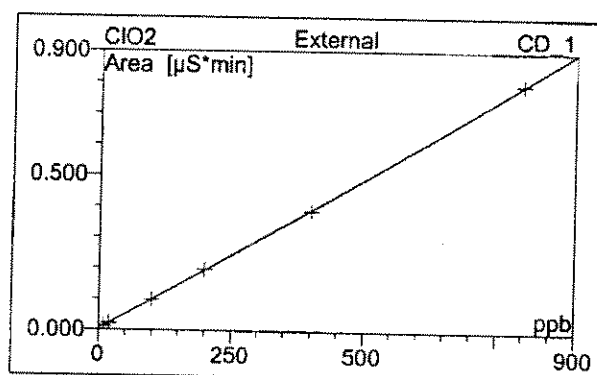
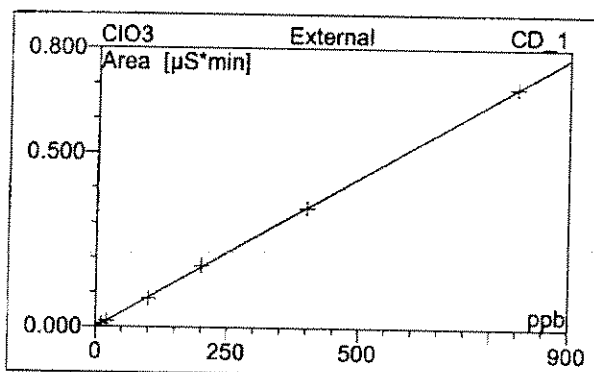


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	ClO2	0.590	0.098	43.58	99.661	BMB
2	11.17	Br	0.158	0.045	19.95	46.890	BMB
3	12.32	ClO3	0.254	0.082	36.47	95.828	BMB
Total:			1.002	0.224	100.00	242.379	

9 autocal4**RAJA060520-5**

Sample Name: autocal4
 Vial Number: 335
 Sample Type: standard
 Control Program: IC12 test Program
 Quantif. Method: DBP-Method
 Recording Time: 6/12/2007 14:28
 Run Time (min): 23.00

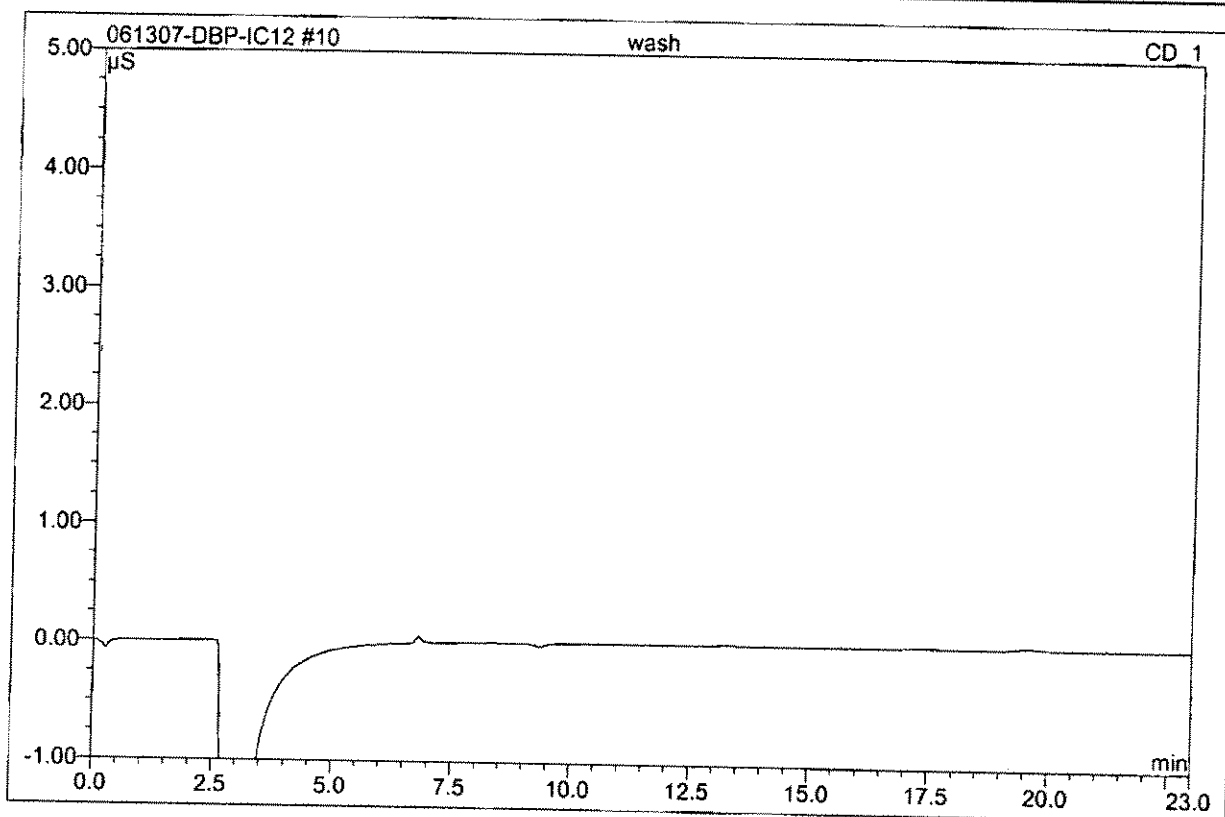
Injection Volume: 1000.0
 Channel: CD_1
 Wavelength: n.a.
 Bandwidth: n.a.
 Dilution Factor: 1.0000
 Sample Weight: 1.0000
 Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	5.34	ClO2	QOff	6	99.9889	0.0035	0.0009	0.0000
2	11.17	Br	QOff	6	99.9617	-0.0004	0.0010	0.0000
3	12.32	ClO3	QOff	6	99.9957	-0.0012	0.0009	0.0000
Average:					99.9821	0.0006	0.0009	0.0000

10 wash

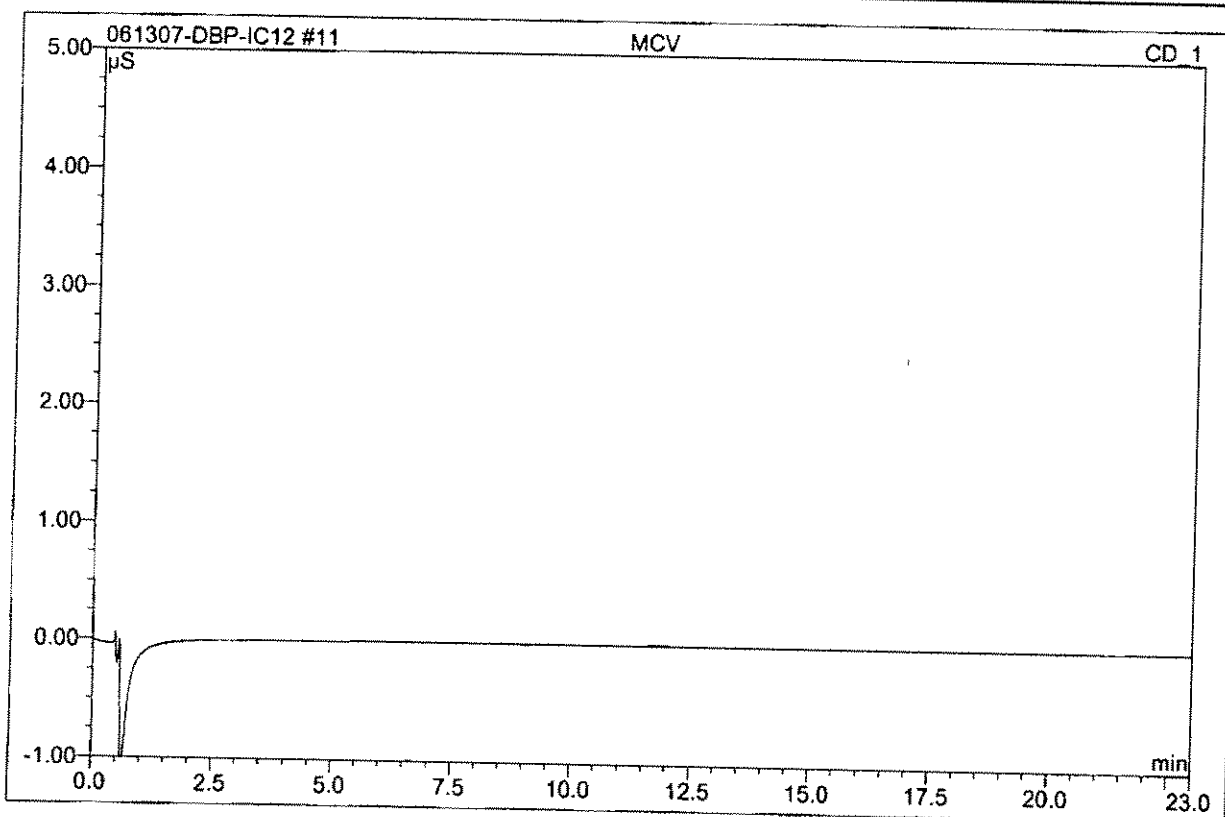
Sample Name:	wash	Injection Volume:	1000.0
Vial Number:	339	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 11:09	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

11 MCV**misinjection**

Sample Name:	MCV	Injection Volume:	1000.0
Vial Number:	340	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 11:35	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

12 CCB

Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	336	Channel:	n.a.
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 12:20	Sample Weight:	1.0000
Run Time (min):	n.a.	Sample Amount:	1.0000

061307-DBP-IC12 #12

CCB

CD 1

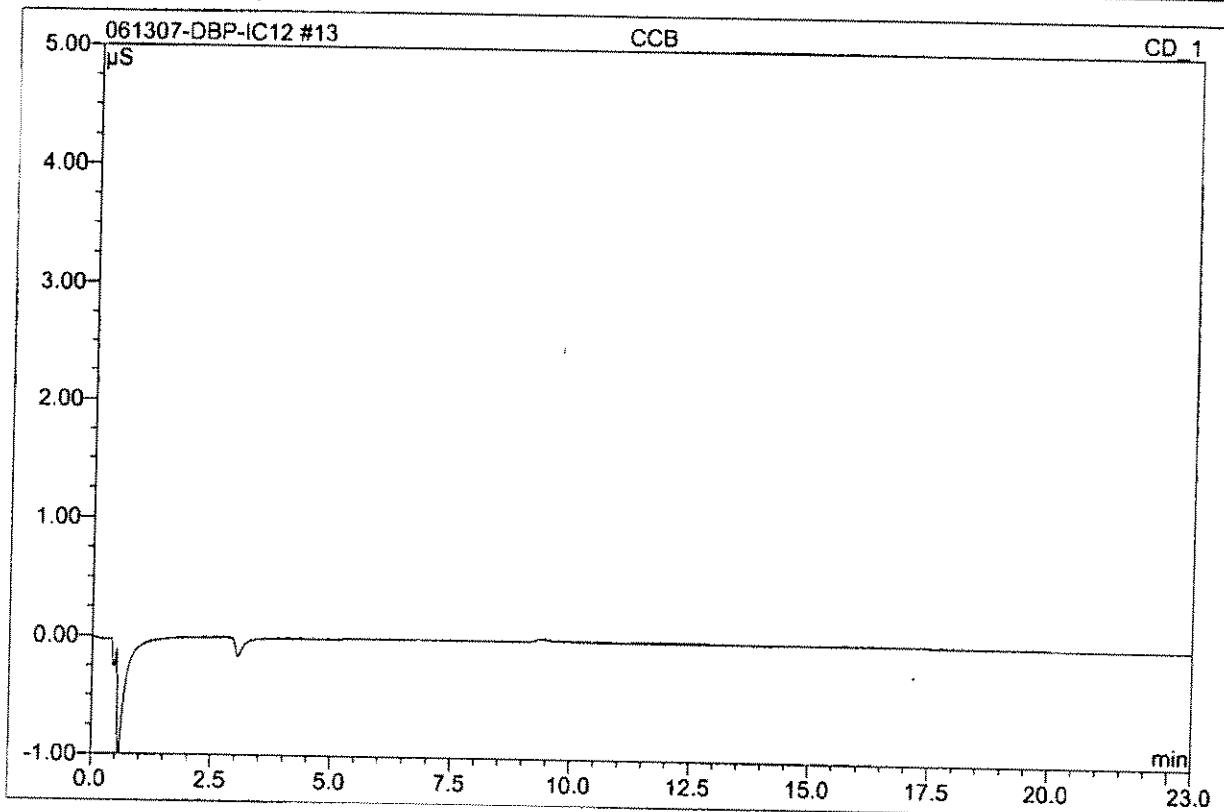
Can't open raw data file "\\USPAS2SDIO1\RawData\$\IC12_DBP\2007JUNE\061307-DBP-IC12.SEQ\CD_1.CH11.acd".

The system cannot find the file specified.

n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	n.a.		n.a.	n.a.	n.a.	n.a.	
Total:			0.000	0.000	0.00	0.000	

13 CCB

Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	337	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 12:21	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000

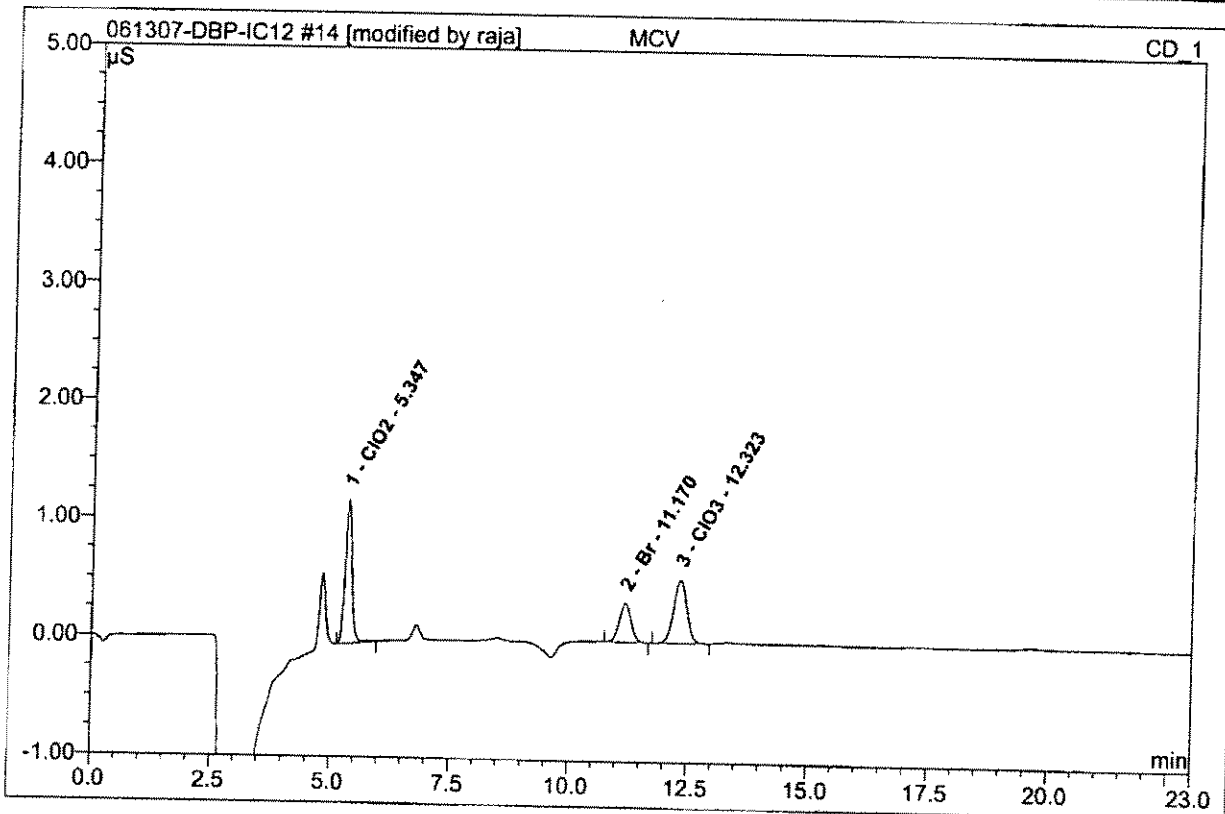


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

14 MCV

rerun

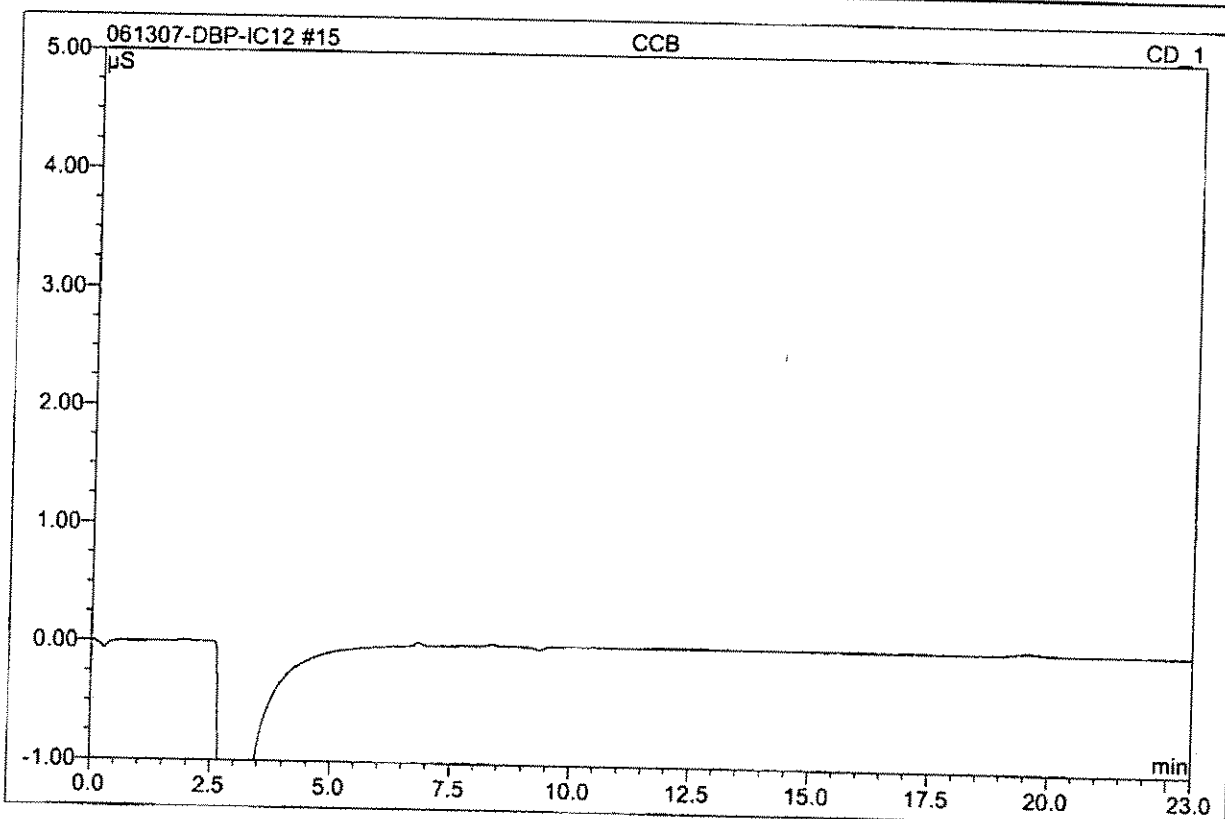
Sample Name:	MCV	Injection Volume:	1000.0
Vial Number:	337	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 12:47	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.35	CIO2	1.212	0.193	42.09	199.379	BMB*
2	11.17	Br	0.329	0.094	20.39	98.180	BMB
3	12.32	CIO3	0.534	0.172	37.51	200.444	BMB
Total:			2.075	0.459	100.00	498.003	

15 CCB

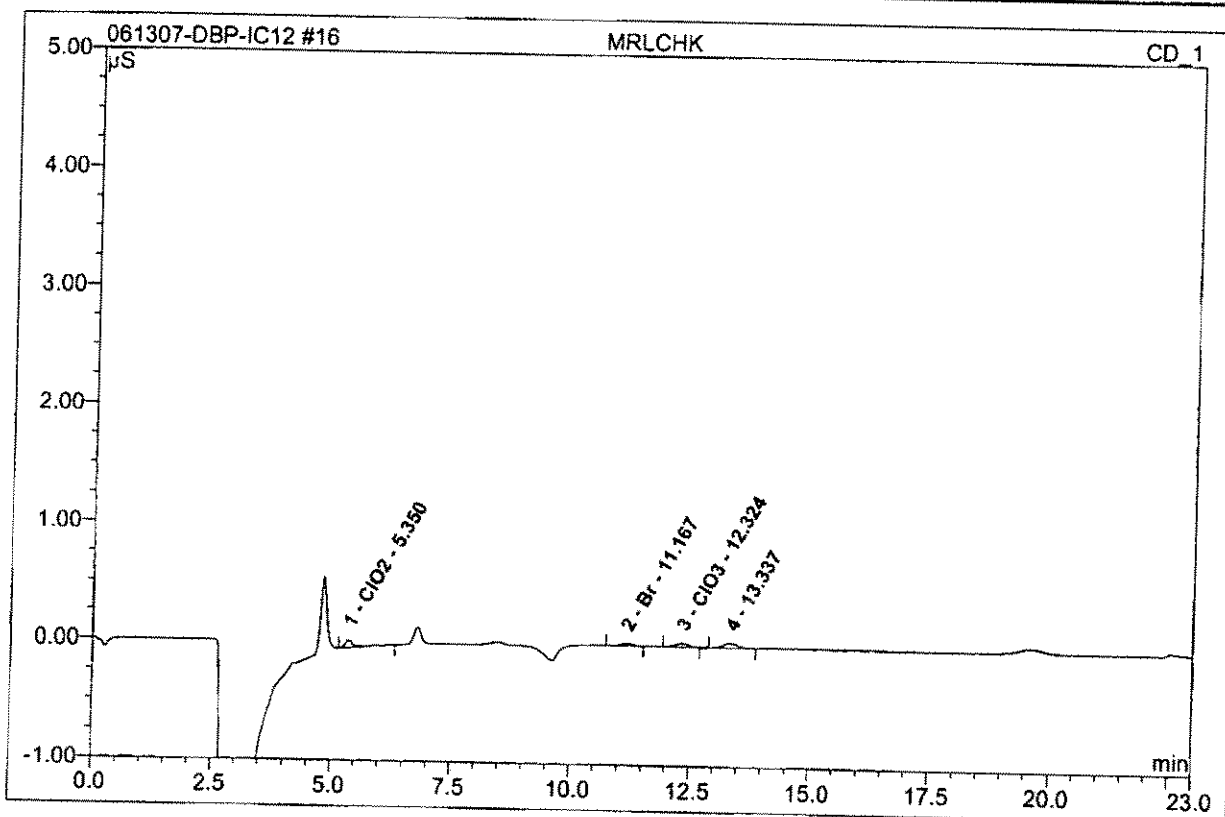
Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 13:12	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

16 MRLCHK

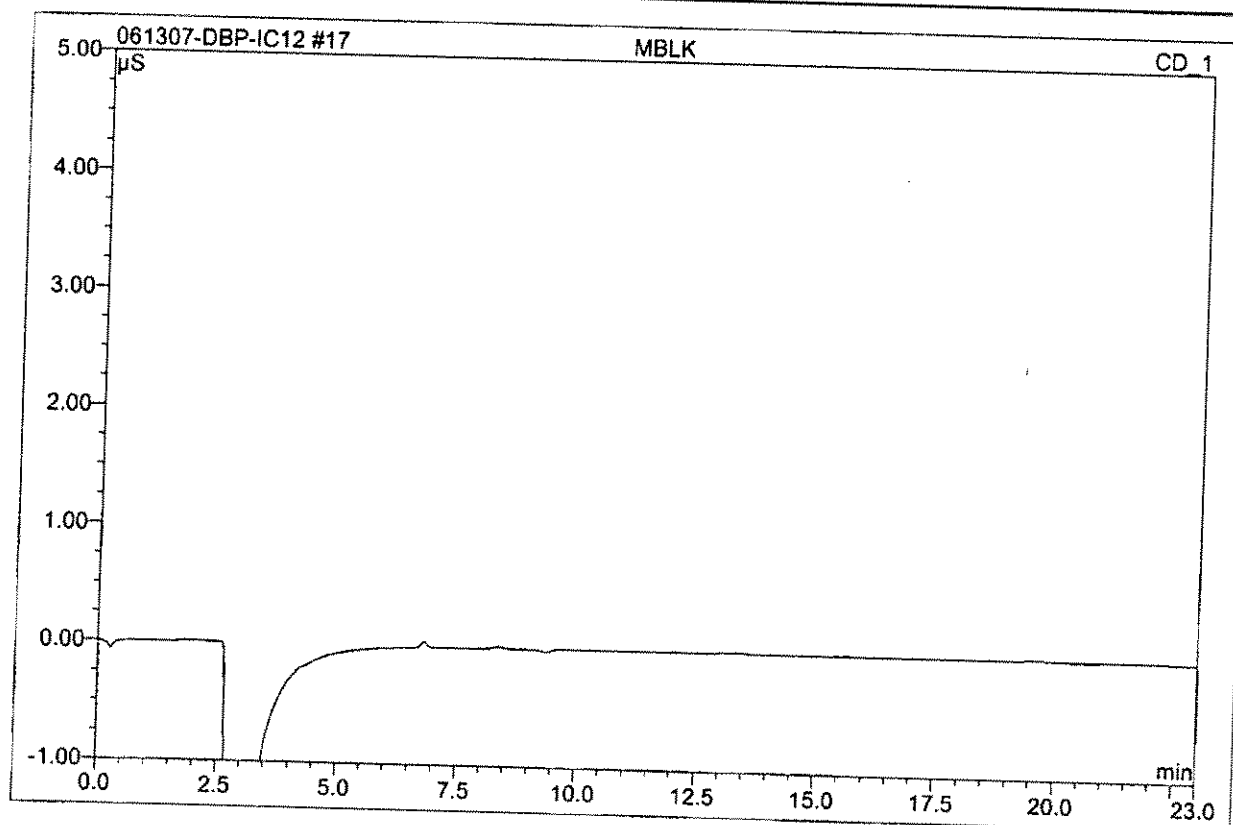
Sample Name:	MRLCHK	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 13:37	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.35	ClO2	0.062	0.012	31.47	9.378	BMB
2	11.17	Br	0.018	0.005	13.08	5.710	BMB
3	12.32	ClO3	0.028	0.009	22.44	11.508	BMB
4	13.34	n.a.	0.037	0.013	33.01	n.a.	BMB
Total:			0.145	0.039	100.00	26.595	

17 MBLK

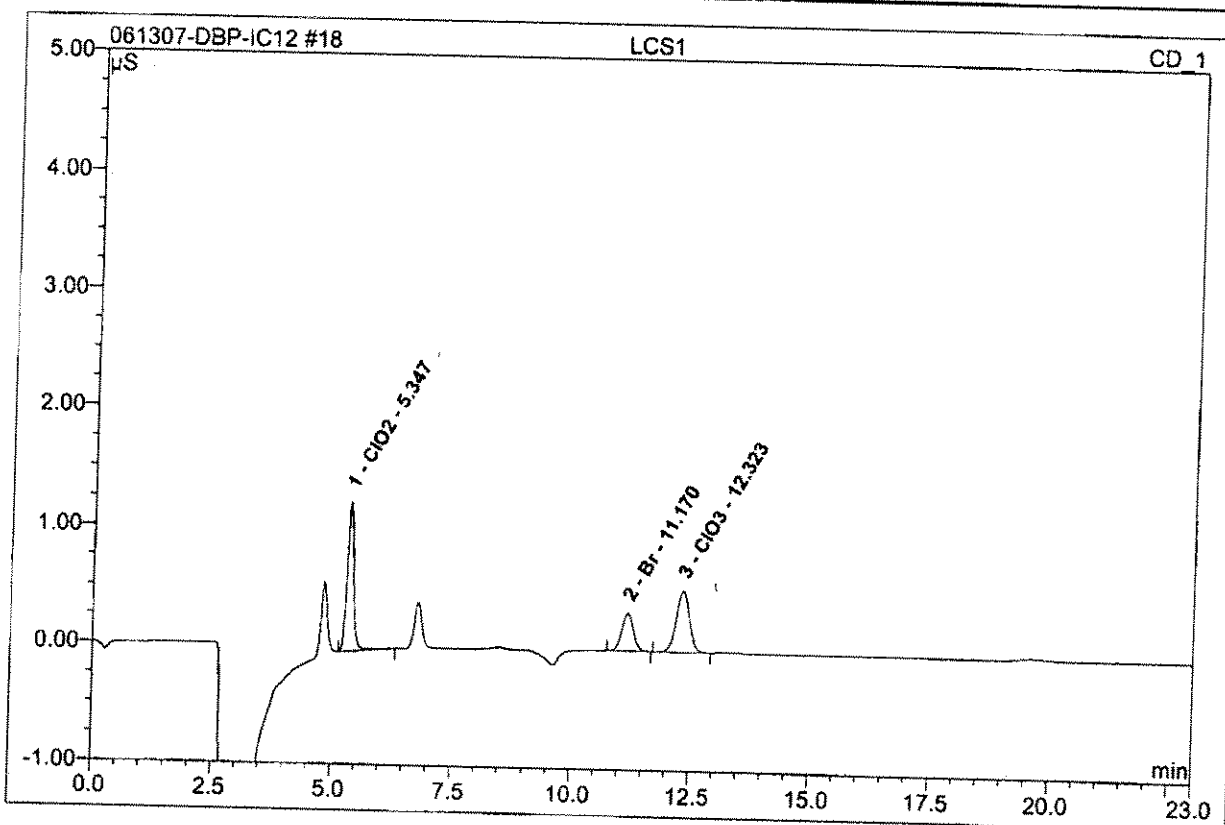
Sample Name:	MBLK	Injection Volume:	1000.0
Vial Number:	522	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 14:03	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

18 LCS1

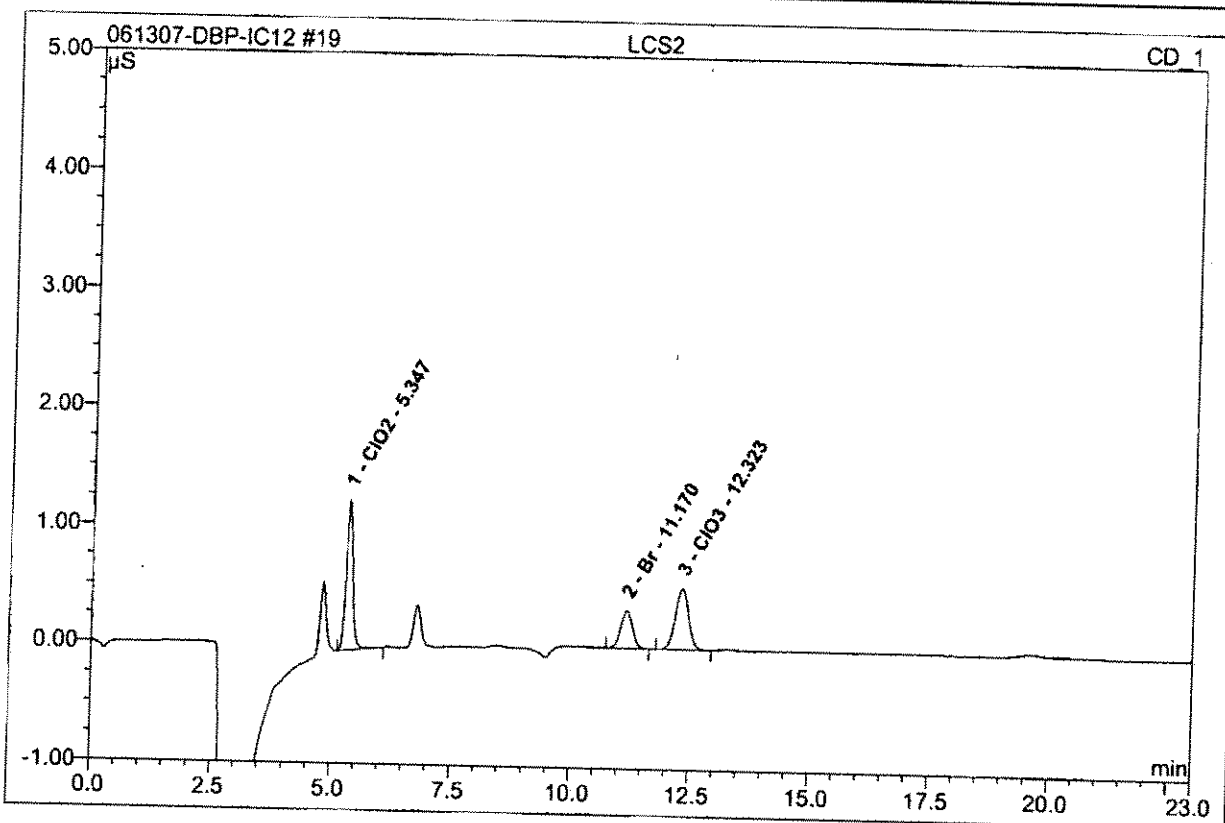
Sample Name:	LCS1	Injection Volume:	1000.0
Vial Number:	523	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 14:28	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.35	CIO2	1.272	0.205	43.93	211.282	BMB
2	11.17	Br	0.326	0.092	19.78	96.684	BMB
3	12.32	CIO3	0.525	0.169	36.28	196.845	BMB
Total:			2.123	0.466	100.00	504.811	

19 LCS2

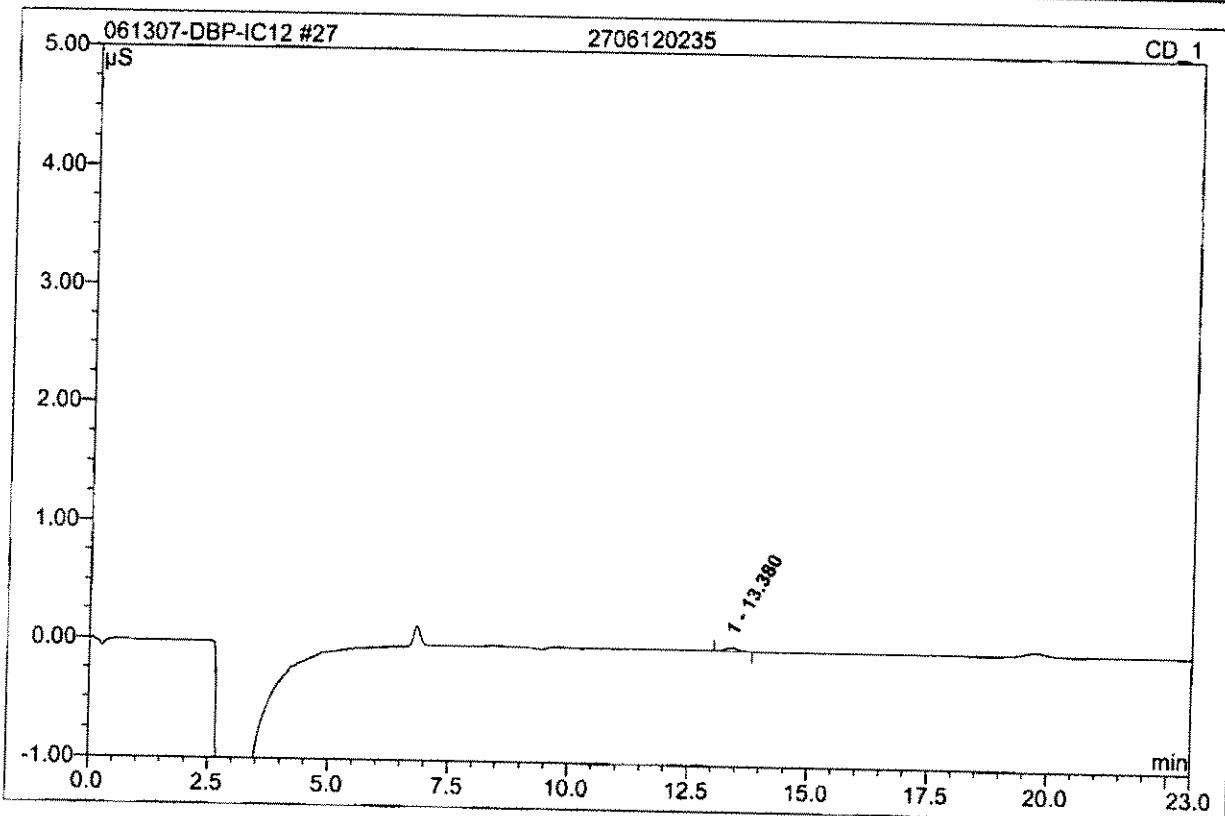
Sample Name:	LCS2	Injection Volume:	1000.0
Vial Number:	522	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 14:54	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.35	CIO2	1.272	0.202	43.88	208.711	BMB
2	11.17	Br	0.323	0.091	19.79	95.662	BMB
3	12.32	CIO3	0.520	0.167	36.32	194.894	BMB
Total:			2.116	0.461	100.00	499.267	

27 2706120235**BR**

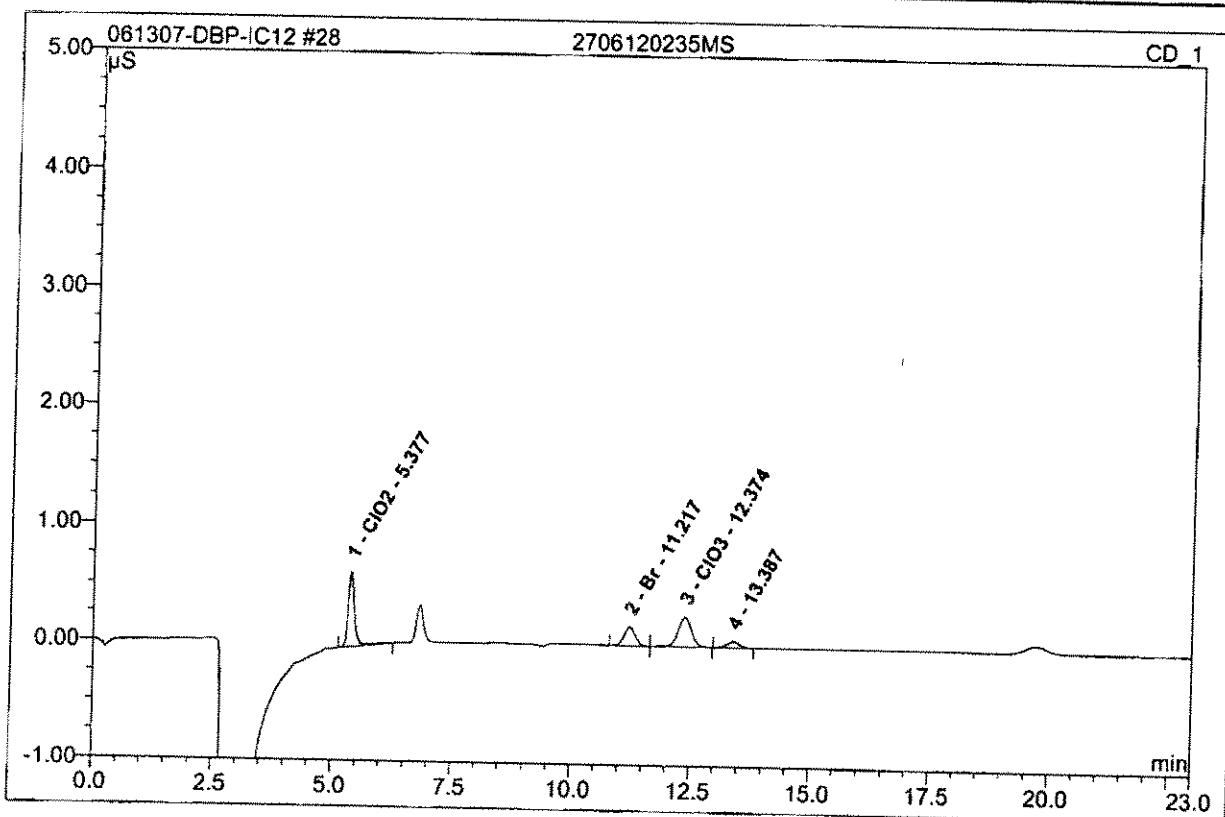
Sample Name:	2706120235	Injection Volume:	1000.0
Vial Number:	580	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 18:17	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	13.38	n.a.	0.029	0.009	100.00	n.a.	BMB
Total:			0.029	0.009	100.00	0.000	

28 2706120235MS

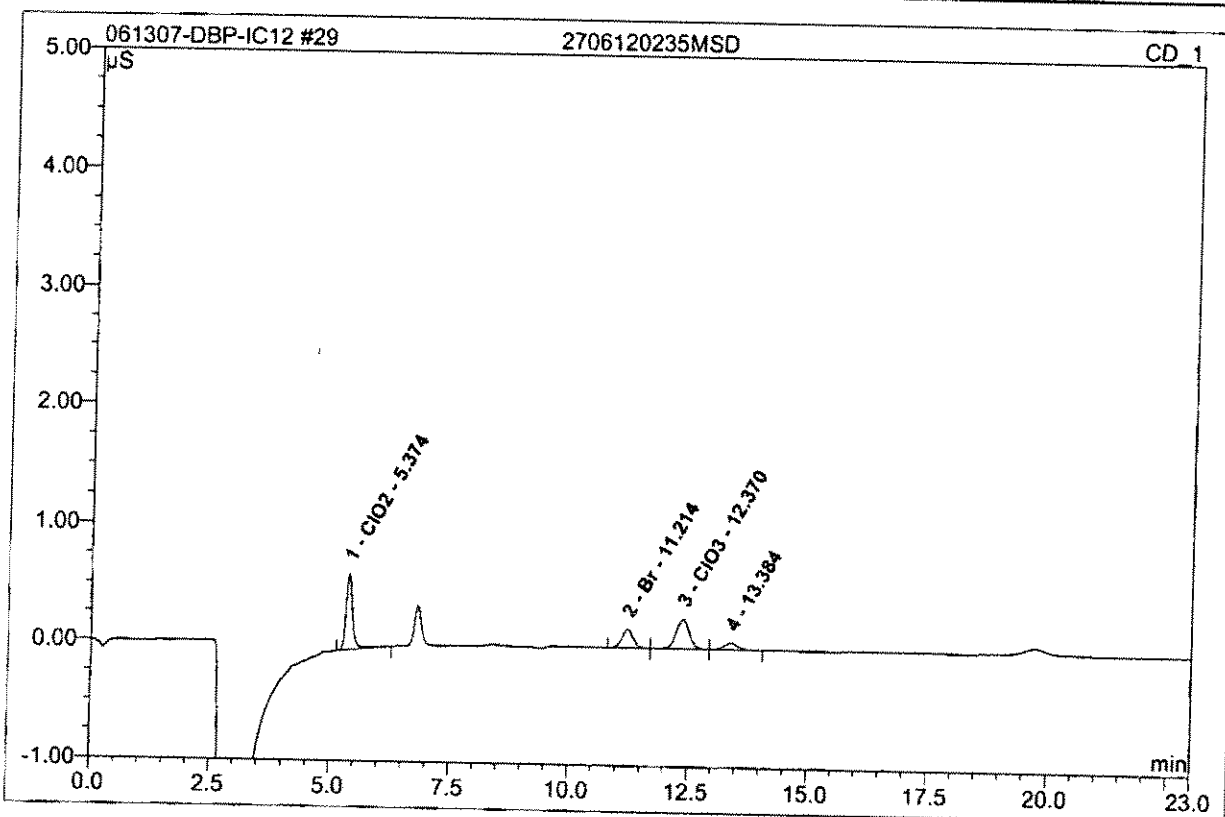
Sample Name:	2706120235MS	Injection Volume:	1000.0
Vial Number:	582	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 18:42	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.38	CIO2	0.641	0.098	40.78	99.610	BMB
2	11.22	Br	0.158	0.043	18.15	45.568	BM
3	12.37	CIO3	0.252	0.082	34.08	95.677	MB
4	13.39	n.a.	0.051	0.017	7.00	n.a.	BMB
Total:			1.102	0.239	100.00	240.854	

29 2706120235MSD

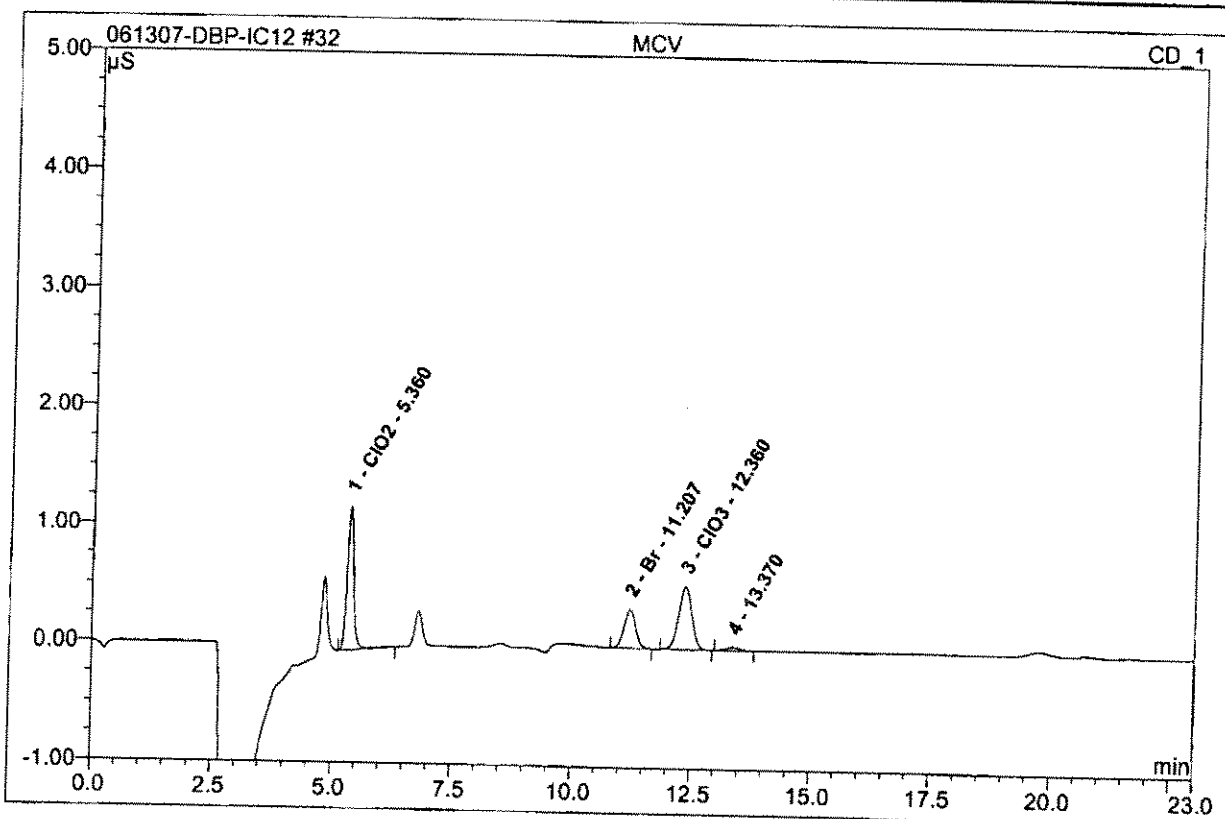
Sample Name:	2706120235MSD	Injection Volume:	1000.0
Vial Number:	583	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 19:07	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.37	ClO2	0.643	0.099	40.22	100.882	BMB
2	11.21	Br	0.158	0.044	18.00	46.380	BM
3	12.37	ClO3	0.253	0.083	33.73	97.165	M
4	13.38	n.a.	0.057	0.020	8.05	n.a.	MB
Total:			1.111	0.246	100.00	244.427	

32 MCV

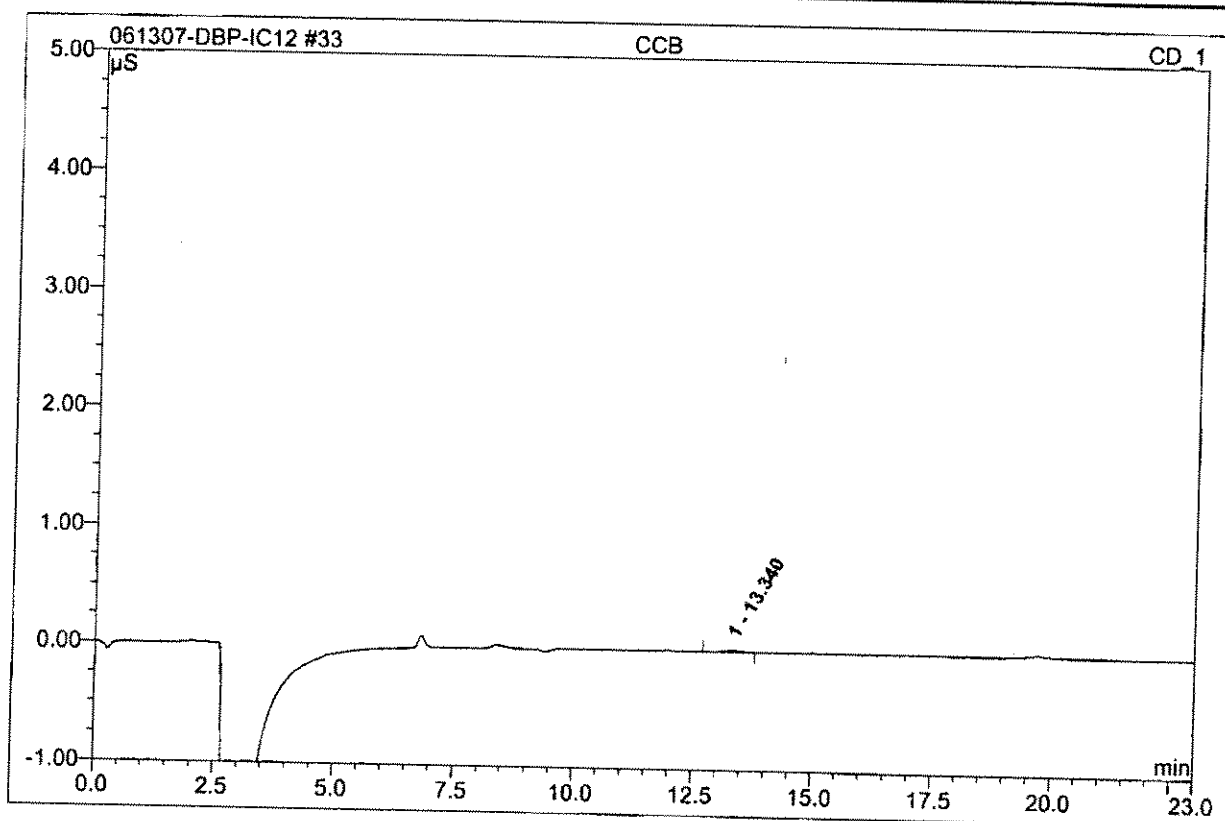
Sample Name:	MCV	Injection Volume:	1000.0
Vial Number:	784	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 20:24	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.36	ClO2	1.222	0.195	41.77	201.343	BMB
2	11.21	Br	0.327	0.092	19.71	96.540	BMB
3	12.36	ClO3	0.530	0.170	36.47	198.322	BMB
4	13.37	n.a.	0.028	0.010	2.06	n.a.	BMB
Total:			2.108	0.467	100.00	496.206	

33 CCB

Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	785	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/13/2007 20:49	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000

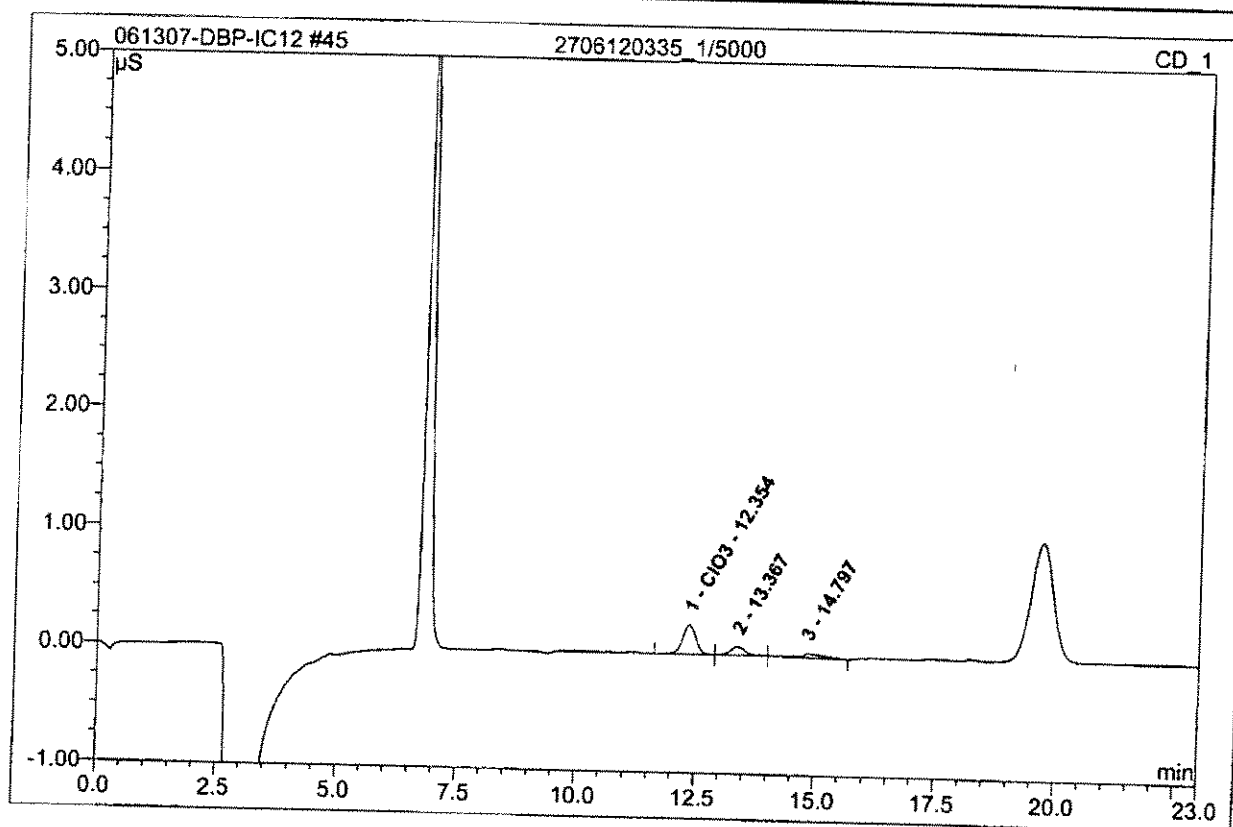


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	13.34	n.a.	0.013	0.005	100.00	n.a.	BMB
Total:			0.013	0.005	100.00	0.000	

45 2706120335_1/5000**CLO3**

Sample Name: 2706120335_1/5000
 Vial Number: 795
 Sample Type: unknown
 Control Program: IC12 test Program
 Quantif. Method: DBP-Method
 Recording Time: 6/14/2007 1:54
 Run Time (min): 23.00

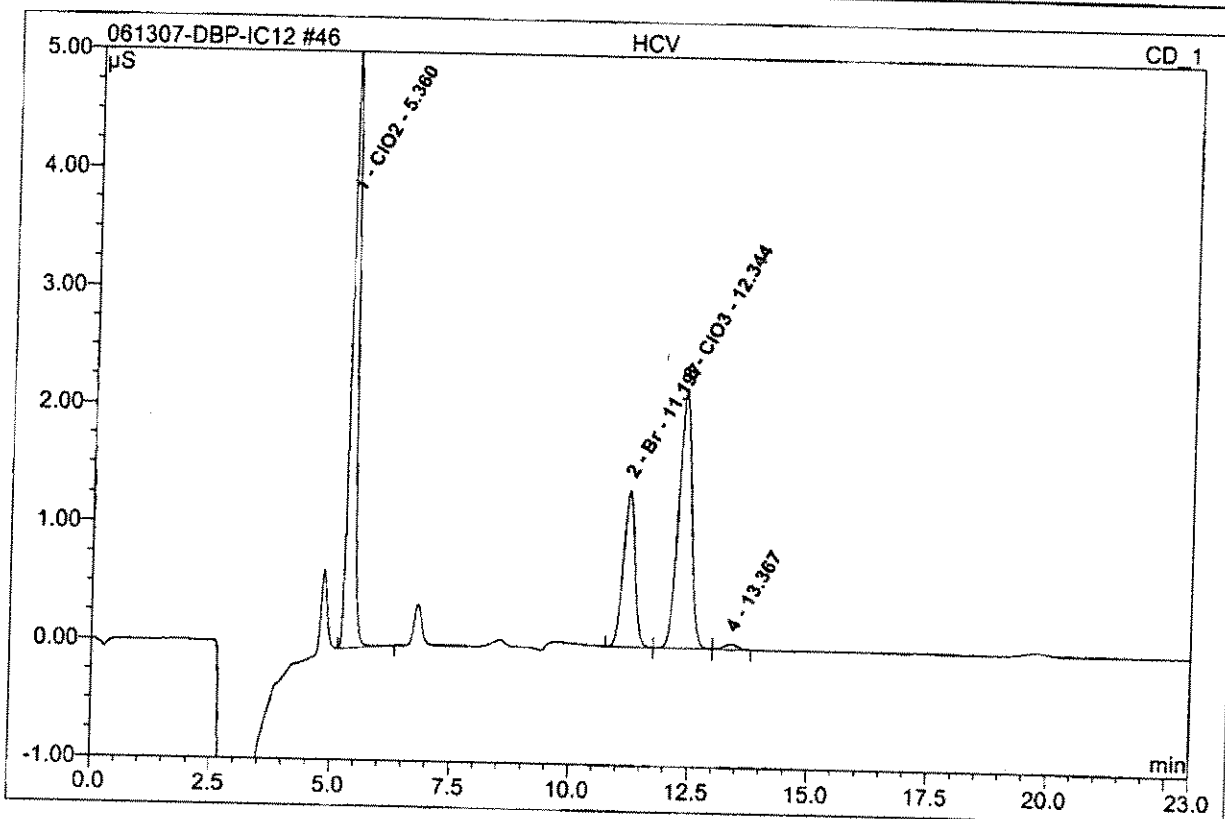
Injection Volume: 1000.0
 Channel: CD_1
 Wavelength: n.a.
 Bandwidth: n.a.
 Dilution Factor: 5000.0000
 Sample Weight: 1.0000
 Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	12.35	CIO3	0.248	0.080	65.46	#####	BM
2	13.37	n.a.	0.070	0.024	19.83	n.a.	Mb
3	14.80	n.a.	0.035	0.018	14.71	n.a.	bMB
Total:			0.353	0.122	100.00	#####	

46 HCV

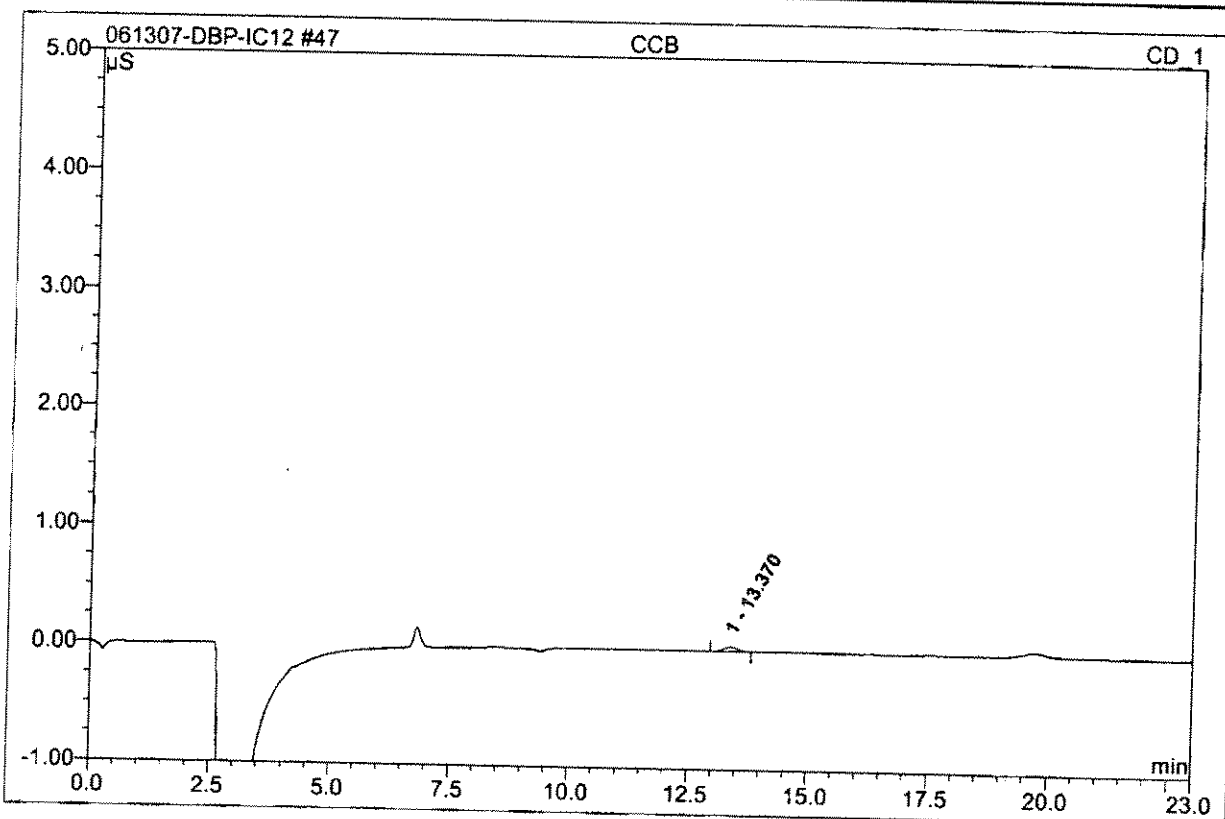
Sample Name:	HCV	Injection Volume:	1000.0
Vial Number:	785	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/14/2007 2:19	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.36	ClO2	5.117	0.802	42.53	806.756	BMB
2	11.20	Br	1.321	0.373	19.80	402.416	BMB
3	12.34	ClO3	2.166	0.695	36.86	808.131	BMB
4	13.37	n.a.	0.045	0.015	0.80	n.a.	BMB
Total:			8.649	1.886	100.00	2017.303	

47 CCB

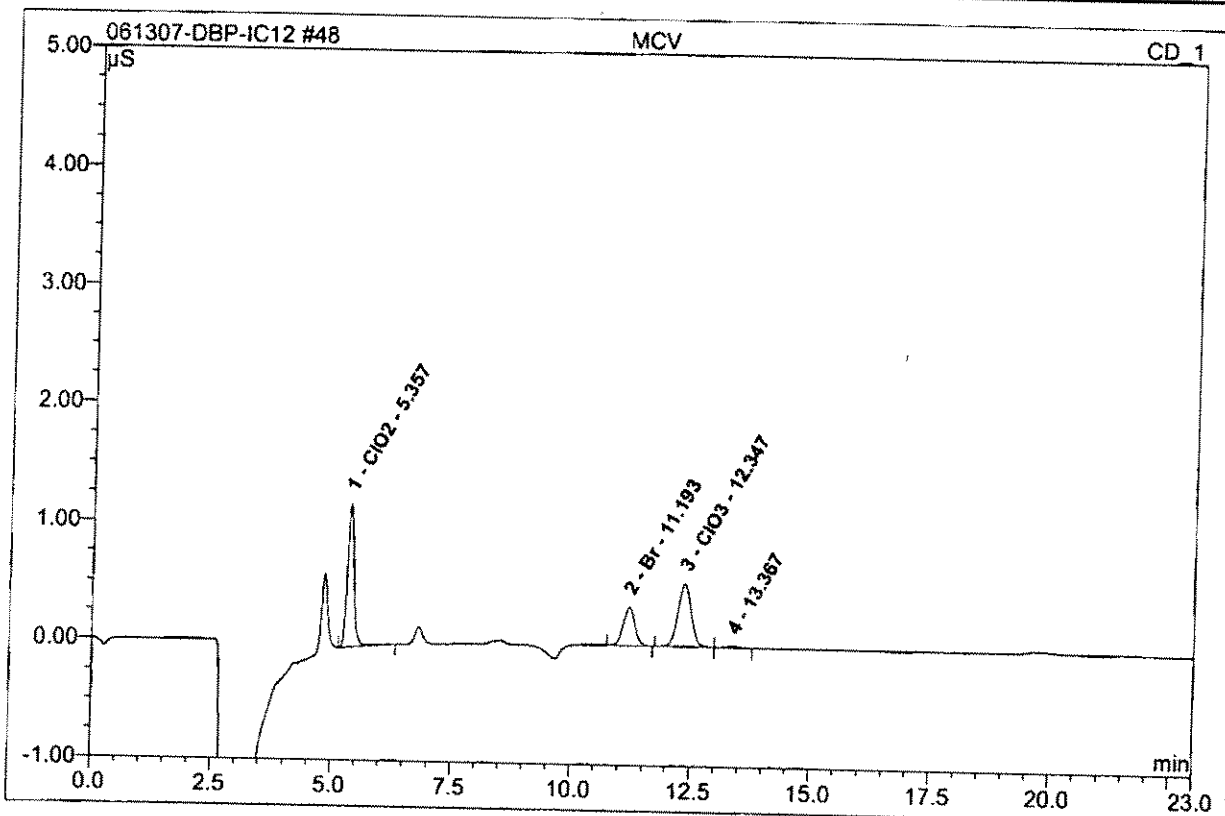
Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	786	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/14/2007 2:45	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppb	Type
1	13.37	n.a.	0.039	0.013	100.00	n.a.	BMB
Total:			0.039	0.013	100.00	0.000	

48 MCV

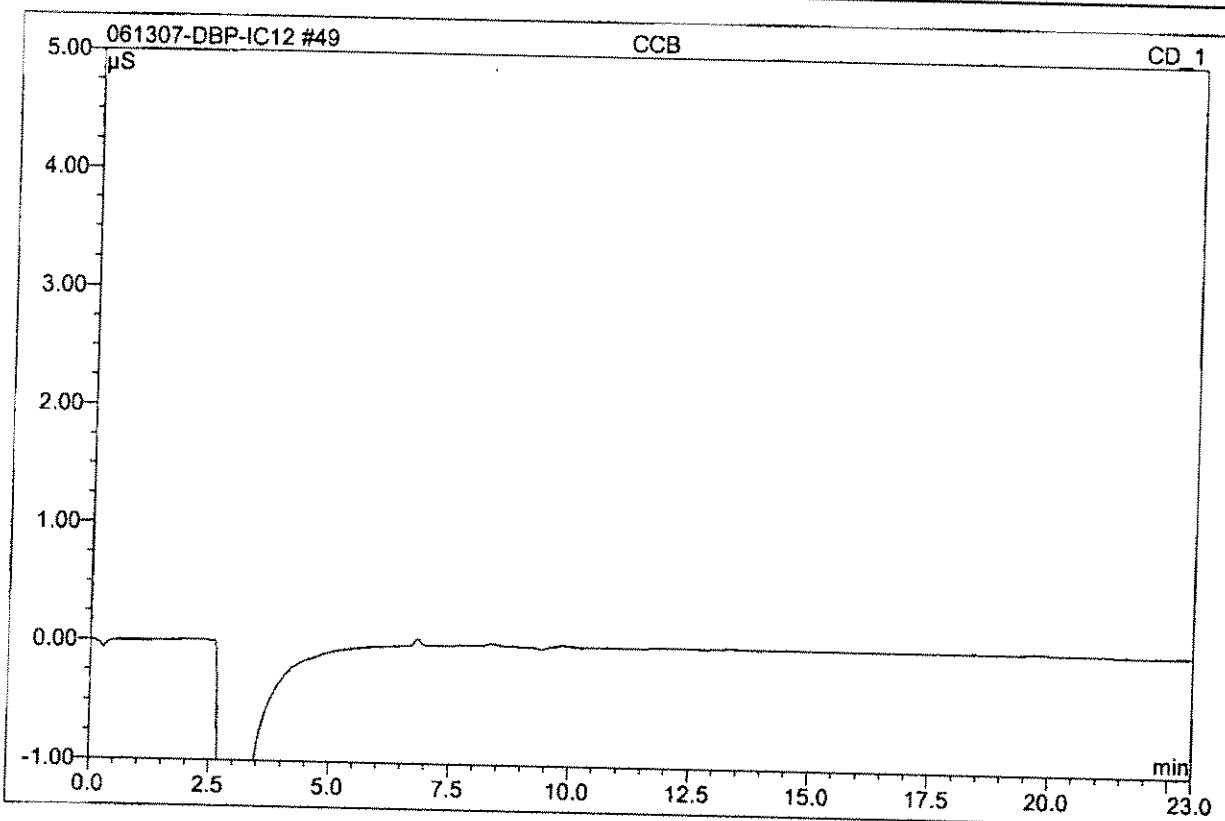
Sample Name:	MCV	Injection Volume:	1000.0
Vial Number:	787	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/14/2007 3:10	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.36	ClO2	1.212	0.196	42.00	202.163	BMB
2	11.19	Br	0.327	0.093	19.91	97.369	BMB
3	12.35	ClO3	0.532	0.173	37.02	200.979	BMB
4	13.37	n.a.	0.015	0.005	1.08	n.a.	BMB
Total:			2.087	0.466	100.00	500.511	

49 CCB

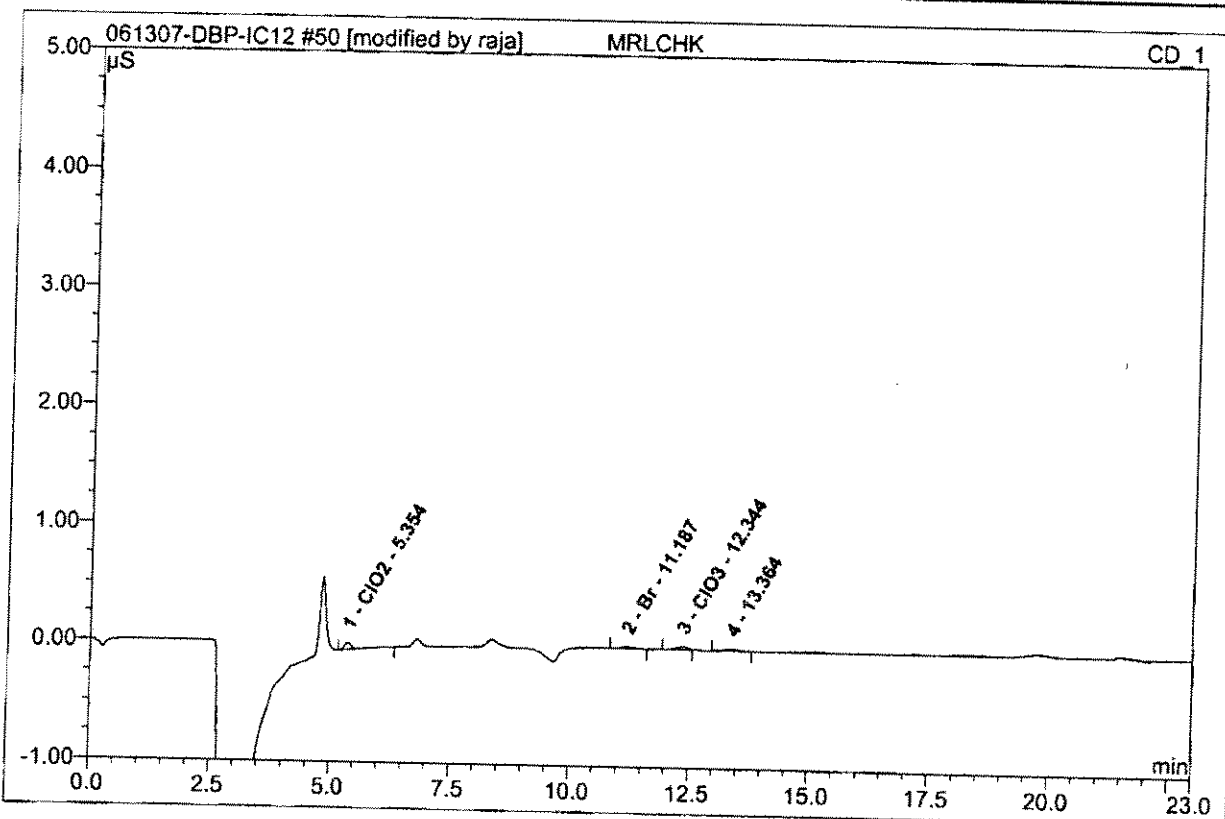
Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	788	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/14/2007 3:35	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

50 MRLCHK

Sample Name:	MRLCHK	Injection Volume:	1000.0
Vial Number:	789	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/14/2007 4:01	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %	Amount ppb	Type
1	5.35	ClO2	0.060	0.012	43.93	9.269	BMB
2	11.19	Br	0.016	0.005	16.31	5.104	BMB*
3	12.34	ClO3	0.021	0.006	20.98	8.104	BMB
4	13.36	n.a.	0.015	0.005	18.79	n.a.	BMB
Total:			0.113	0.028	100.00	22.476	

DBP QC Checklist

Analysis Date: 06-15-07 Analyst: Raja

QC'd by muc Date 06/19/07

Instrument: IC12

Calibration including QCS(Secondary Source)

☒ Correlation Coefficient of calibration curve for linear curve is 0.995 or better. (0.99 for quadratic)
☒ CLO2 ☒ CLO3 ☒ BR

Initial QC Check Samples (MCV, CCB, MBLANK, MRL) to be analyzed with every batch (up to 20 samples) or part thereof

☒ MCV is analyzed before samples:
☒ CLO2/CLO3: 90-110% (180-220ppb) ☒ BR: 90-110% (90-110ppb)

☒ CCB is analyzed before samples and after MCV and HCV

☒ MBLANK is analyzed before samples. ☒ CLO2/CLO3 ☒ BR, if present, is < or = half of the MRL.

☒ CLO2: MRL at 10ppb is within 75%-125% (7.5-12.5ppb)

☒ CLO3: MRL at 10ppb is within 75%-125% (7.5-12.5ppb)

☒ BR: MRL at 5.0ppb is within 75%-125% (3.75-6.25ppb)

LCS/LCSD: Accepted criteria are between 90-110% recovery

☒ CLO2: 180-220ppb for 200ppb

☒ CLO3: 180-220ppb for 200ppb

☒ BR: 90-110ppb for 100ppb

☒ One pair analyzed per batch (up to 20 samples) or part thereof

MS/MSD: Acceptance criteria are between 75%-125% recovery.

☒ CLO2: 75-125ppb for 100ppb spike

☒ CLO3: 75-125ppb for 100ppb spike

☒ BR: 37.5-62.5ppb for 50ppb spike

☒ RPD between MS/MSD is within 15%

☒ One pair, and one MS is analyzed per batch (up to 20 samples) or part thereof

Continuing Calibration Verification (MCV and HCV) are required

☒ MCV recovery is between 90-110%
☒ CLO2 (180-220ppb) ☒ CLO3 (180-220ppb) ☒ BR (90-110ppb)

☒ HCV recovery is between 90-110%
☒ CLO2 (720-880ppb) ☒ CLO3 (720-880ppb) ☒ BR (360-440ppb)

Samples

☒ All samples for CLO3 and BR are analyzed within 28 days of collection.

☒ All samples for CLO2 are analyzed within 14 days of collection. 1 sample

QIR

☒ QIR needed for failed QC

☒ QIR needed for samples analyzed outside of hold time 43 (1 sample for CLO2)

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb CIO3 CD 1	
1,	wash,		06/12/07 11:05,	1.0,	n.a.	
2,	autocal1,		06/12/07 11:30,	1.0,	n.a.	
3,	autocal2,	RAJA060520-3	06/12/07 11:55,	1.0,	10.7525	
4,	autocal3,	RAJA060520-4	06/12/07 12:21,	1.0,	20.4242	
5,	autocal4,	RAJA060520-5	06/12/07 12:46,	1.0,	95.74	
6,	autocal5,	RAJA060520-6	06/12/07 13:12,	1.0,	204.3233	
7,	autocal6,	RAJA060520-7	06/12/07 13:37,	1.0,	398.5028	
8,	autocal7,	RAJA060520-8	06/12/07 14:02,	1.0,	800.1693	
9,	autocal4,	RAJA060520-5	06/12/07 14:28,	1.0,	95.8282	
10,	MCV,		06/15/07 09:23,	1.0,	200.4155	100%
11,	CCB,		06/15/07 09:49,	1.0,	n.a.	
12,	MRLCHK,		06/15/07 10:14,	1.0,	✓ 10.8002	108%
13,	MBLK,		06/15/07 10:39,	1.0,	n.a.	
14,	LCS1,		06/15/07 11:05,	1.0,	✓ 199.1383	99.6%
15,	LCS2,		06/15/07 11:30,	1.0,	✓ 194.4443	
16,	2706120634_1/5,	BR	06/15/07 11:56,	5.0,	n.a.	
17,	2706120243,	BR	06/15/07 12:21,	1.0,	10.638	
18,	2706120243MS,		06/15/07 12:46,	1.0,	✓ 102.8104	92.2%
19,	2706120243MSD,		06/15/07 13:12,	1.0,	✓ 100.722	90.1%
20,	2705160837_1/10,	CLO2	06/15/07 13:37,	10.0,	n.a.	
21,	2706140011,	CLO2/CLO3	06/15/07 14:03,	1.0,	✓ n.a.	
22,	2706140028,	CLO2/CLO3	06/15/07 14:28,	1.0,	✓ 7.2669	
23,	2706140030,	CLO2/CLO3	06/15/07 14:53,	1.0,	✓ n.a.	
24,	2706140369,	CLO3	06/15/07 15:19,	1.0,	✓ 193.4861	
25,	2706140370,	CLO3	06/15/07 15:44,	1.0,	✓ 149.0672	
26,	2706140372,	CLO3	06/15/07 16:10,	1.0,	✓ 215.9548	
27,	2706140380,	CLO3	06/15/07 16:35,	1.0,	✓ 194.5767	
28,	MCV,		06/15/07 17:00,	1.0,	199.1079	99.4%
29,	CCB,		06/15/07 17:26,	1.0,	n.a.	
30,	2706140381,	CLO3	06/15/07 17:51,	1.0,	✓ 194.946	
31,	2706140387,	CLO3	06/15/07 18:17,	1.0,	✓ 216.3754	
32,	2706140388,	CLO3	06/15/07 18:42,	1.0,	✓ 210.5626	
33,	2706140389,	CLO3	06/15/07 19:07,	1.0,	✓ 194.2532	
34,	2706130118,	BR	06/15/07 19:33,	1.0,	200.305	
35,	2706130119-DNR,	BR	06/15/07 19:58,	1.0,	n.a.	
36,	2706120332_1/5,	CLO3	06/15/07 20:24,	5.0,	n.a. ✓	
37,	2706130259,	CLO2/BR	06/15/07 20:49,	1.0,	n.a.	
38,	2706130259MS,		06/15/07 21:14,	1.0,	93.4299	93.4%
39,	2706130259MSD,		06/15/07 21:40,	1.0,	91.7044	91.7%
40,	2706080383 1/2,	BR3001	06/15/07 22:05,	2.0,	n.a.	
41,	2706080384,	BR3001	06/15/07 22:30,	1.0,	n.a.	
42,	HCV,		06/15/07 22:56,	1.0,	803.0104	100%
43,	CCB,		06/15/07 23:21,	1.0,	n.a.	

Sequence: 061507-DBP-IC12
Operator: raja

Page 1 of 4
Printed: 6/18/2007 3:01:41 PM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC12_IC12_DBP\2007JUNE
Timebase: IC12
#Samples: 78

Created: 6/15/2007 9:21:15 AM by raja
Last Update: 6/18/2007 2:55:09 PM by raja

No.	Name	Comment	Dil. Factor	Sample ID	Type	Program	Method
1	wash		1.0000		Unknown	IC12 test Program	DBP-Method
2	autocal1		1.0000		Standard	IC12 test Program	DBP-Method
3	autocal2	RAJA060520-3	1.0000		Standard	IC12 test Program	DBP-Method
4	autocal3	RAJA060520-4	1.0000		Standard	IC12 test Program	DBP-Method
5	autocal4	RAJA060520-5	1.0000		Unknown	IC12 test Program	DBP-Method
6	autocal5	RAJA060520-6	1.0000		Standard	IC12 test Program	DBP-Method
7	autocal6	RAJA060520-7	1.0000		Standard	IC12 test Program	DBP-Method
8	autocal7	RAJA060520-8	1.0000		Standard	IC12 test Program	DBP-Method
9	autocal4	RAJA060520-5	1.0000		Standard	IC12 test Program	DBP-Method
10	MCV		1.0000		Unknown	IC12 test Program	DBP-Method
11	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
12	MRLCHK		1.0000		Unknown	IC12 test Program	DBP-Method
13	MBLK		1.0000		Unknown	IC12 test Program	DBP-Method
14	LCS1		1.0000		Unknown	IC12 test Program	DBP-Method
15	LCS2		1.0000		Unknown	IC12 test Program	DBP-Method
16	2706120634_1/5	BR	5.0000		Unknown	IC12 test Program	DBP-Method
17	2706120243	BR	1.0000		Unknown	IC12 test Program	DBP-Method
18	2706120243MS		1.0000		Unknown	IC12 test Program	DBP-Method
19	2706120243MSD		1.0000		Unknown	IC12 test Program	DBP-Method
20	2705160837_1/10	CLO2	10.0000		Unknown	IC12 test Program	DBP-Method
21	2706140011	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
22	2706140028	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
23	2706140030	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
24	2706140369	CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
25	2706140370	CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
26	2706140372	CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
27	2706140380	CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
28	MCV		1.0000		Unknown	IC12 test Program	DBP-Method
29	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
30	2706140381	CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
31	2706140387	CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
32	2706140388	CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
33	2706140389	CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
34	2706130118	BR	1.0000		Unknown	IC12 test Program	DBP-Method
35	2706130119-DNR	BR	1.0000		Unknown	IC12 test Program	DBP-Method
36	2706120332_1/5	CLO3	5.0000		Unknown	IC12 test Program	DBP-Method
37	2706130259	CLO2/BR	1.0000		Unknown	IC12 test Program	DBP-Method
38	2706130259MS		1.0000		Unknown	IC12 test Program	DBP-Method
39	2706130259MSD		1.0000		Unknown	IC12 test Program	DBP-Method
40	2706080383_1/2	BR3001	2.0000		Unknown	IC12 test Program	DBP-Method
41	2706080384	BR3001	1.0000		Unknown	IC12 test Program	DBP-Method
42	HCV		1.0000		Unknown	IC12 test Program	DBP-Method

Sequence: 061507-DBP-IC12
Operator: raja

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Title:
Datasource: Dionex_USPAS2SDIO2
Location: ICVC12_DBP\2007JUNE
Timebase: IC12
#Samples: 78

Created: 6/15/2007 9:21:15 AM by raja
Last Update: 6/18/2007 2:55:09 PM by raja

No.	Name	Status	Inj. Date/Time	*Analyst
1	wash	Finished	6/12/2007 11:05:15 AM	raja
2	autocal1	Finished	6/12/2007 11:30:39 AM	raja
3	autocal2	Finished	6/12/2007 11:55:57 AM	raja
4	autocal3	Finished	6/12/2007 12:21:21 PM	raja
5	autocal4	Finished	6/12/2007 12:46:45 PM	raja
6	autocal5	Finished	6/12/2007 1:12:09 PM	raja
7	autocal6	Finished	6/12/2007 1:37:32 PM	raja
8	autocal7	Finished	6/12/2007 2:02:56 PM	raja
9	autocal4	Finished	6/12/2007 2:28:20 PM	raja
10	MCV	Finished	6/15/2007 9:23:38 AM	raja
11	CCB	Finished	6/15/2007 9:49:02 AM	raja
12	MRLCHK	Finished	6/15/2007 10:14:26 AM	raja
13	MBLK	Finished	6/15/2007 10:39:50 AM	raja
14	LCS1	Finished	6/15/2007 11:05:14 AM	raja
15	LCS2	Finished	6/15/2007 11:30:38 AM	raja
16	2706120634_1/5	Finished	6/15/2007 11:56:02 AM	raja
17	2706120243	Finished	6/15/2007 12:21:26 PM	raja
18	2706120243MS	Finished	6/15/2007 12:46:50 PM	raja
19	2706120243MSD	Finished	6/15/2007 1:12:13 PM	raja
20	2705160837_1/10	Finished	6/15/2007 1:37:37 PM	raja
21	2706140011	Finished	6/15/2007 2:03:01 PM	raja
22	2706140028	Finished	6/15/2007 2:28:25 PM	raja
23	2706140030	Finished	6/15/2007 2:53:49 PM	raja
24	2706140369	Finished	6/15/2007 3:19:13 PM	raja
25	2706140370	Finished	6/15/2007 3:44:37 PM	raja
26	2706140372	Finished	6/15/2007 4:10:01 PM	raja
27	2706140380	Finished	6/15/2007 4:35:24 PM	raja
28	MCV	Finished	6/15/2007 5:00:48 PM	raja
29	CCB	Finished	6/15/2007 5:26:12 PM	raja
30	2706140381	Finished	6/15/2007 5:51:36 PM	raja
31	2706140387	Finished	6/15/2007 6:17:00 PM	raja
32	2706140388	Finished	6/15/2007 6:42:24 PM	raja
33	2706140389	Finished	6/15/2007 7:07:47 PM	raja
34	2706130118	Finished	6/15/2007 7:33:11 PM	raja
35	2706130119-DNR	Finished	6/15/2007 7:58:36 PM	raja
36	2706120332_1/5	Finished	6/15/2007 8:24:00 PM	raja
37	2706130259	Finished	6/15/2007 8:49:24 PM	raja
38	2706130259MS	Finished	6/15/2007 9:14:48 PM	raja
39	2706130259MSD	Finished	6/15/2007 9:40:11 PM	raja
40	2706080383_1/2	Finished	6/15/2007 10:05:35 PM	raja
41	2706080384	Finished	6/15/2007 10:30:59 PM	raja
42	HCV	Finished	6/15/2007 10:56:23 PM	raja

Sequence: 061507-DBP-IC12
Operator: raja

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Printed: 6/18/2007 3:01:41 PM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC12_IC12_DBP\2007JUNE
Timebase: IC12
#Samples: 78

Created: 6/15/2007 9:21:15 AM by raja
Last Update: 6/18/2007 2:55:09 PM by raja

No.	Name	Comment	Dil. Factor	Sample ID	Type	Program	Method
43	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
44	MCV		1.0000		Unknown	IC12 test Program	DBP-Method
45	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
46	MRLCHK	no samples	1.0000		Unknown	IC12 test Program	DBP-Method
47	MBLK	in vials	1.0000		Unknown	IC12 test Program	DBP-Method
48	LCS1		1.0000		Unknown	IC12 test Program	DBP-Method
49	LCS2		1.0000		Unknown	IC12 test Program	DBP-Method
50	2706140170	CLO2	1.0000		Unknown	IC12 test Program	DBP-Method
51	2706140171	CLO2	1.0000		Unknown	IC12 test Program	DBP-Method
52	2706140172	CLO2	1.0000		Unknown	IC12 test Program	DBP-Method
53	2706140456	CLO2	1.0000		Unknown	IC12 test Program	DBP-Method
54	2706140456MS		1.0000		Unknown	IC12 test Program	DBP-Method
55	2706140456MSD		1.0000		Unknown	IC12 test Program	DBP-Method
56	2706140484	CLO2	1.0000		Unknown	IC12 test Program	DBP-Method
57	2706130120		1.0000		Unknown	IC12 test Program	DBP-Method
58	2706130286		1.0000		Unknown	IC12 test Program	DBP-Method
59	2706130408		1.0000		Unknown	IC12 test Program	DBP-Method
60	2706130410_1/2		2.0000		Unknown	IC12 test Program	DBP-Method
61	2706130411		1.0000		Unknown	IC12 test Program	DBP-Method
62	MCV		1.0000		Unknown	IC12 test Program	DBP-Method
63	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
64	2706130412		1.0000		Unknown	IC12 test Program	DBP-Method
65	2706130413		1.0000		Unknown	IC12 test Program	DBP-Method
66	2706140334		1.0000		Unknown	IC12 test Program	DBP-Method
67	2706140456		1.0000		Unknown	IC12 test Program	DBP-Method
68	2706140498		1.0000		Unknown	IC12 test Program	DBP-Method
69	2706140500		1.0000		Unknown	IC12 test Program	DBP-Method
70	2706140501		1.0000		Unknown	IC12 test Program	DBP-Method
71	2706140502		1.0000		Unknown	IC12 test Program	DBP-Method
72	2706140503		1.0000		Unknown	IC12 test Program	DBP-Method
73	2706140504		1.0000		Unknown	IC12 test Program	DBP-Method
74	2706140504MS		1.0000		Unknown	IC12 test Program	DBP-Method
75	2706140504MSD		1.0000		Unknown	IC12 test Program	DBP-Method
76	HCV		1.0000		Unknown	IC12 test Program	DBP-Method
77	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
78	STOP		1.0000		Unknown	DPB Stop Program	DBP-Method

Sequence: 061507-DBP-IC12
Operator: raja

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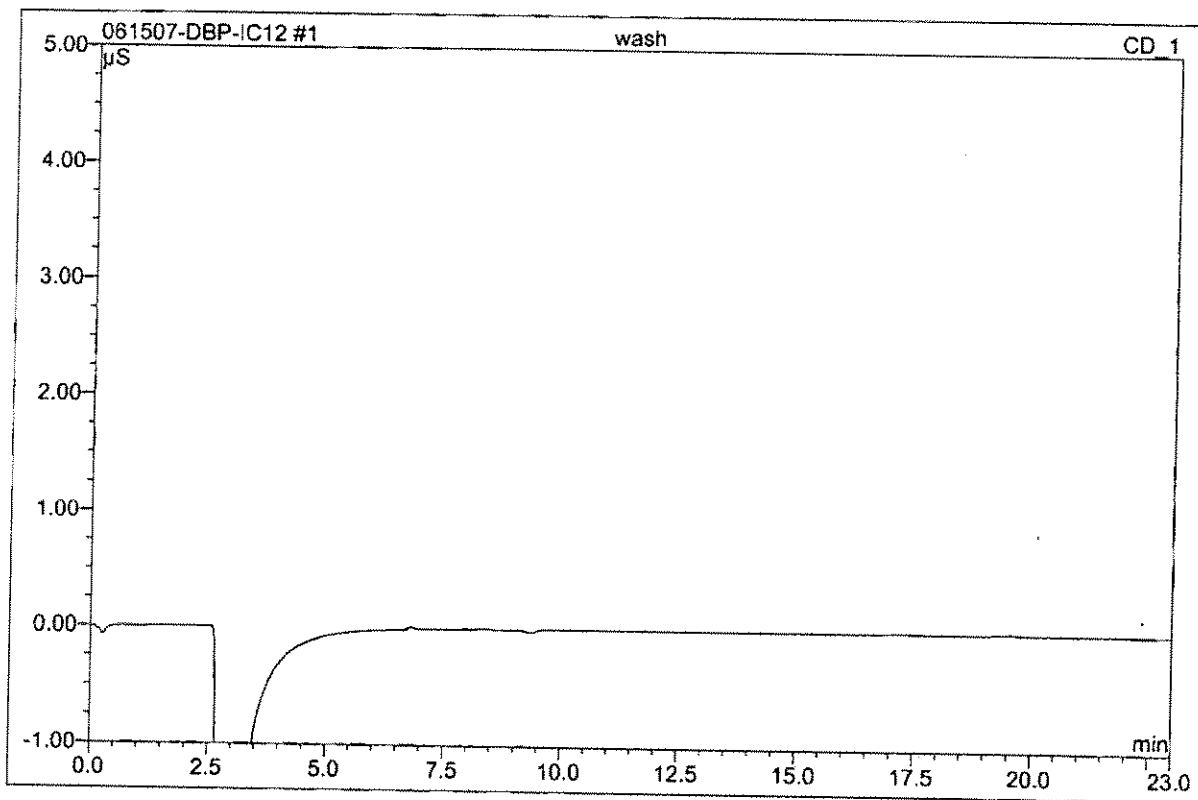
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Datasource: Dionex_USPAS2SDIO2
Location: ICVC12_DBP12007JUNE
Timebase: IC12
#Samples: 78

Created: 6/15/2007 9:21:15 AM by raja
Last Update: 6/18/2007 2:55:09 PM by raja

No.	Name	Status	Inj. Date/Time	*Analyst
43	CCB	Finished	6/15/2007 11:21:47 PM	raja
44	MCV	Finished	6/15/2007 11:47:11 PM	raja
45	CCB	Finished	6/16/2007 12:12:35 AM	raja
46	MRLCHK	Finished	6/16/2007 12:37:59 AM	raja
47	MBLK	Finished	6/16/2007 1:03:23 AM	raja
48	LCS1	Finished	6/16/2007 1:28:46 AM	raja
49	LCS2	Finished	6/16/2007 1:54:10 AM	raja
50	2706140170	Finished	6/16/2007 2:19:34 AM	raja
51	2706140171	Finished	6/16/2007 2:44:58 AM	raja
52	2706140172	Finished	6/16/2007 3:10:22 AM	raja
53	2706140456	Finished	6/16/2007 3:35:46 AM	raja
54	2706140456MS	Finished	6/16/2007 4:01:09 AM	raja
55	2706140456MSD	Finished	6/16/2007 4:26:33 AM	raja
56	2706140484	Finished	6/16/2007 4:51:57 AM	raja
57	2706130120	Finished	6/16/2007 5:17:21 AM	raja
58	2706130286	Finished	6/16/2007 5:42:45 AM	raja
59	2706130408	Finished	6/16/2007 6:08:09 AM	raja
60	2706130410_1/2	Finished	6/16/2007 6:33:33 AM	raja
61	2706130411	Finished	6/16/2007 6:58:57 AM	raja
62	MCV	Finished	6/16/2007 7:24:20 AM	raja
63	CCB	Finished	6/16/2007 7:49:44 AM	raja
64	2706130412	Finished	6/16/2007 8:15:08 AM	raja
65	2706130413	Finished	6/16/2007 8:40:32 AM	raja
66	2706140334	Finished	6/16/2007 9:05:56 AM	raja
67	2706140456	Finished	6/16/2007 9:31:19 AM	raja
68	2706140498	Finished	6/16/2007 9:56:43 AM	raja
69	2706140500	Finished	6/16/2007 10:22:07 AM	raja
70	2706140501	Finished	6/16/2007 10:47:31 AM	raja
71	2706140502	Finished	6/16/2007 11:12:55 AM	raja
72	2706140503	Finished	6/16/2007 11:38:19 AM	raja
73	2706140504	Finished	6/16/2007 12:03:43 PM	raja
74	2706140504MS	Finished	6/16/2007 12:29:07 PM	raja
75	2706140504MSD	Finished	6/16/2007 12:54:30 PM	raja
76	HCV	Finished	6/16/2007 1:19:54 PM	raja
77	CCB	Finished	6/16/2007 1:45:18 PM	raja
78	STOP	Finished	6/16/2007 2:10:42 PM	raja

1 wash

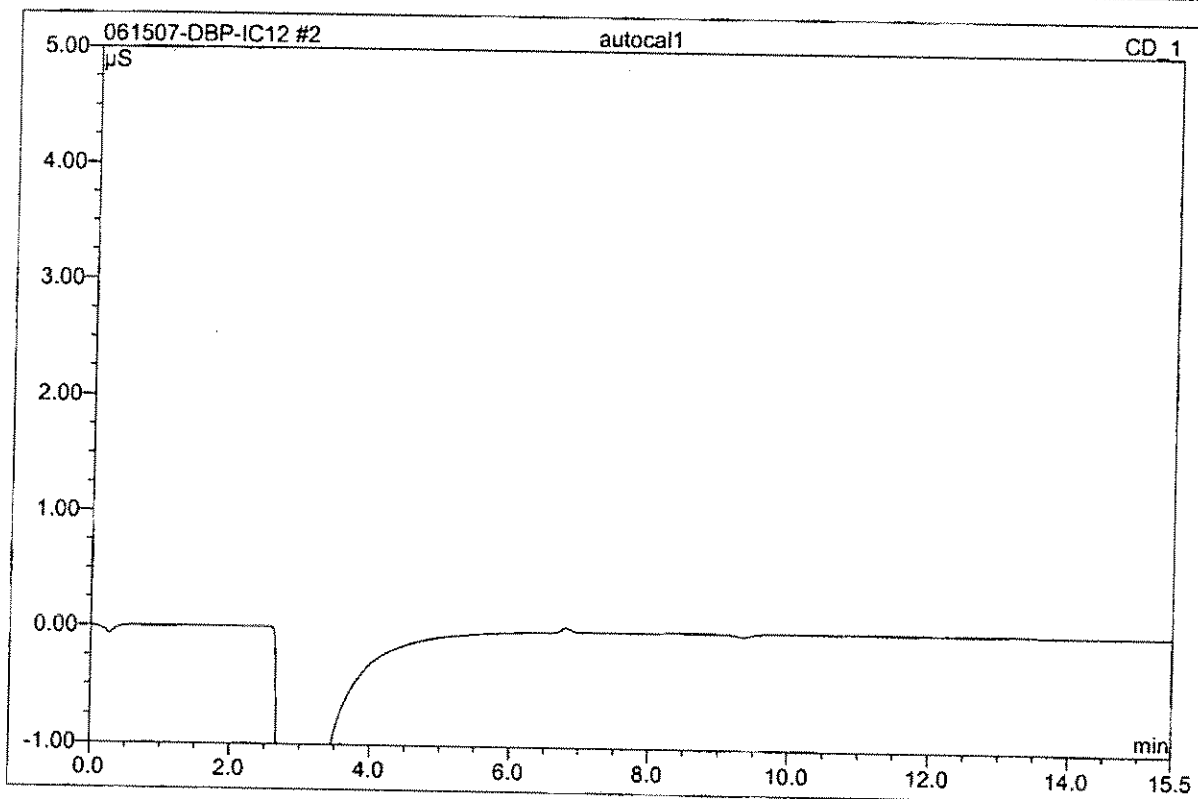
Sample Name:	wash	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 11:05	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

2 autocal1

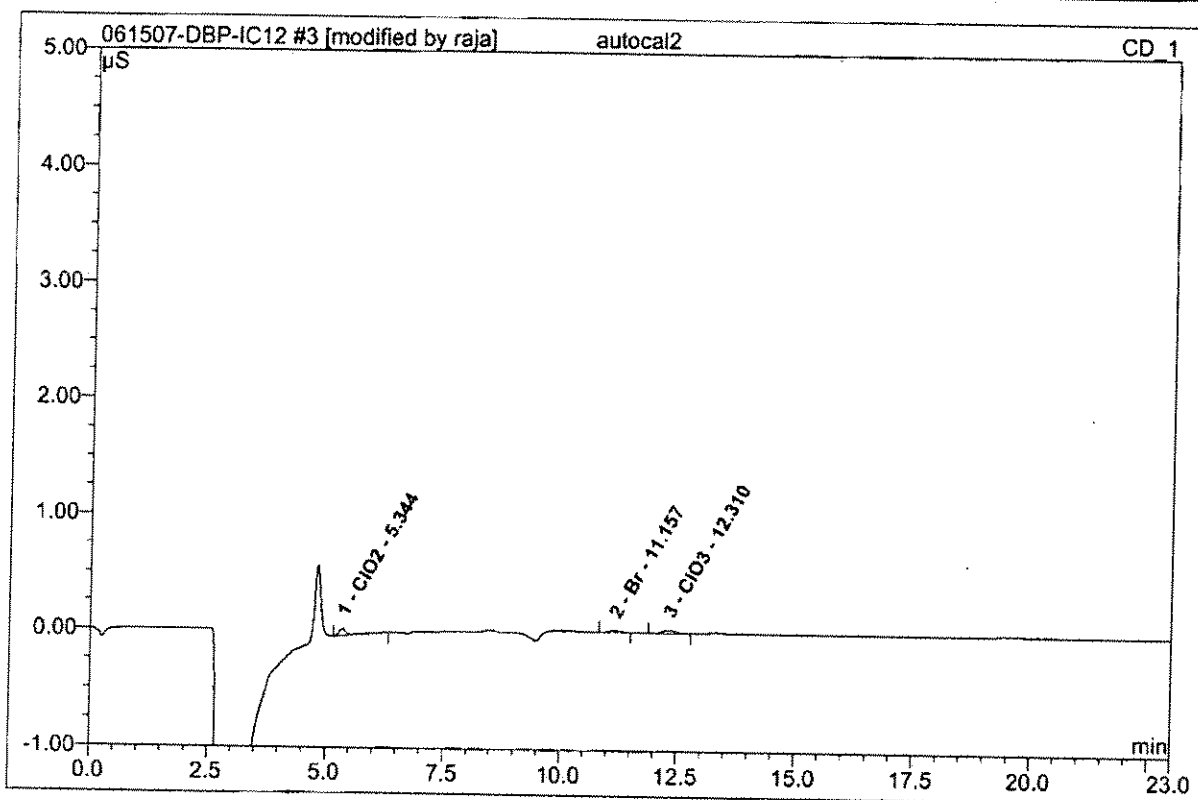
Sample Name:	autocal1	Injection Volume:	1000.0
Vial Number:	334	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 11:30	Sample Weight:	1.0000
Run Time (min):	15.48	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

3 autocal2**RAJA060520-3**

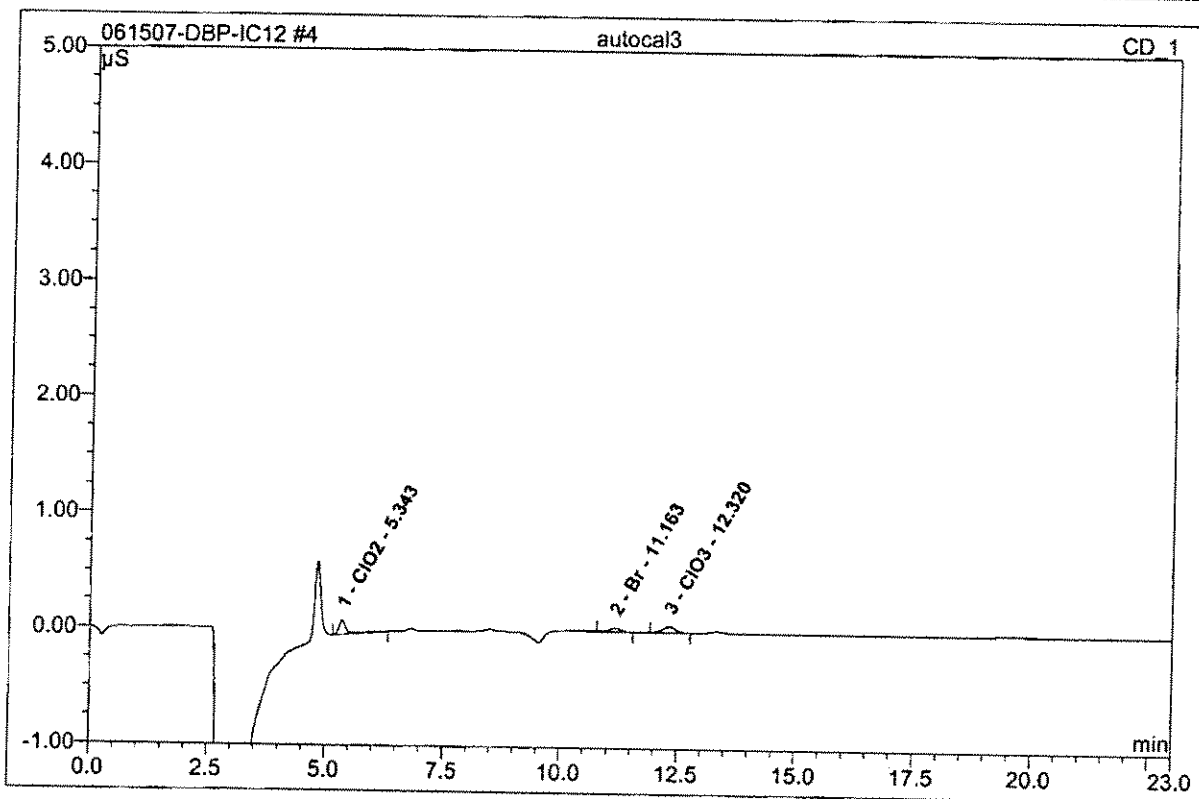
Sample Name:	autocal2	Injection Volume:	1000.0
Vial Number:	335	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 11:55	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.34	CIO2	0.060	0.012	50.12	9.601	BMB
2	11.16	Br	0.016	0.004	17.27	4.865	BMB*
3	12.31	CIO3	0.026	0.008	32.61	10.752	BMB
Total:			0.102	0.025	100.00	25.218	

4 autocal3**RAJA060520-4**

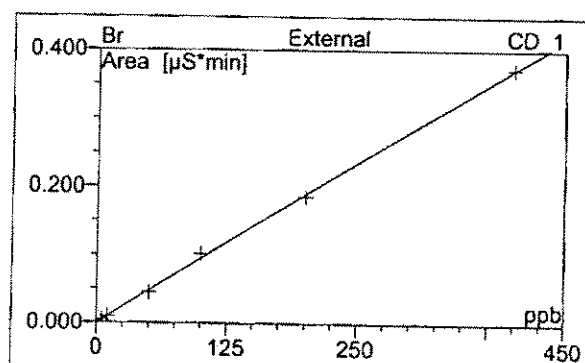
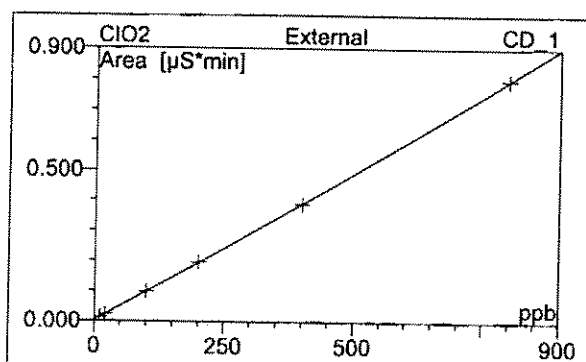
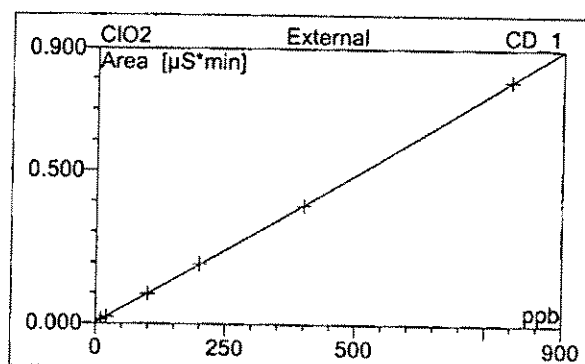
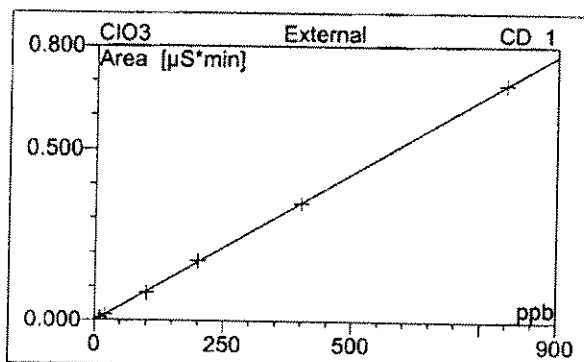
Sample Name:	autocal3	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 12:21	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.34	CIO2	0.118	0.022	46.30	19.559	BMB
2	11.16	Br	0.032	0.009	18.77	9.590	BMB
3	12.32	CIO3	0.052	0.016	34.94	20.424	BMB
Total:			0.202	0.047	100.00	49.573	

4 autocal3**RAJA060520-4**

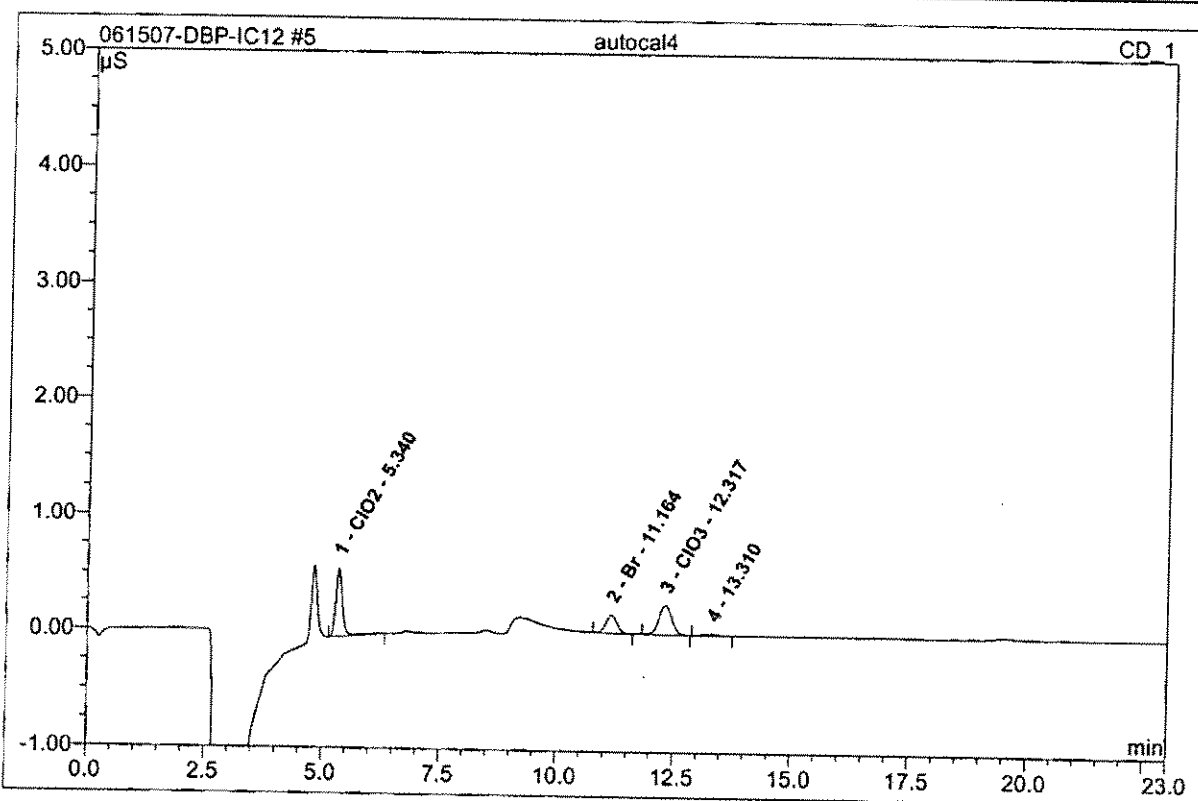
Sample Name:	autocal3	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 12:21	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Cal. Type	Points	Corr. Coeff. %	Offset	Slope	Curve
1	5.34	CIO2	QOff	6	99.9893	0.0035	0.0009	0.0000
2	11.16	Br	QOff	6	99.9617	-0.0004	0.0010	0.0000
3	12.32	CIO3	QOff	6	99.9957	-0.0012	0.0009	0.0000
Average:					99.9822	0.0006	0.0009	0.0000

5 autocal4**RAJA060520-5**

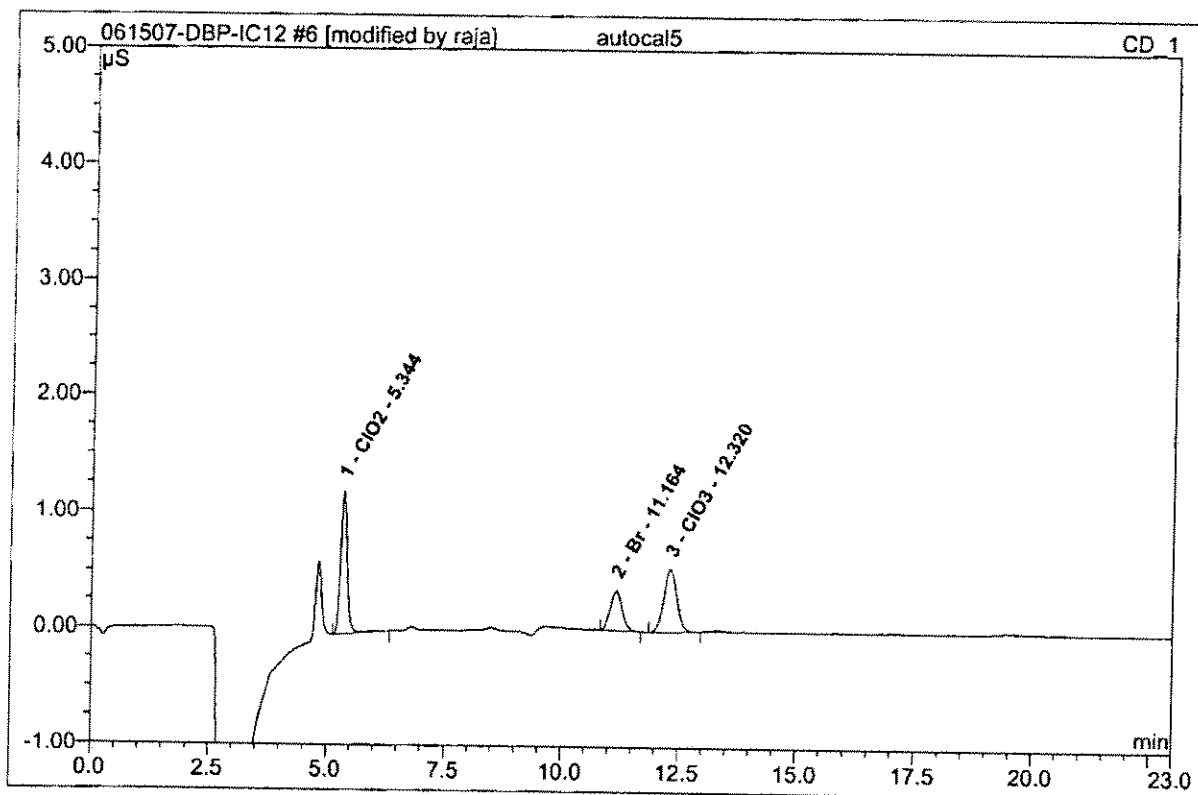
Sample Name:	autocal4	Injection Volume:	1000.0
Vial Number:	337	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 12:46	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	ClO2	0.589	0.095	42.15	96.991	BMB
2	11.16	Br	0.157	0.044	19.45	46.048	BMB
3	12.32	ClO3	0.254	0.082	36.16	95.740	BMB
4	13.31	n.a.	0.014	0.005	2.24	n.a.	BMB
Total:			1.014	0.226	100.00	238.780	

6 autocal5**RAJA060520-6**

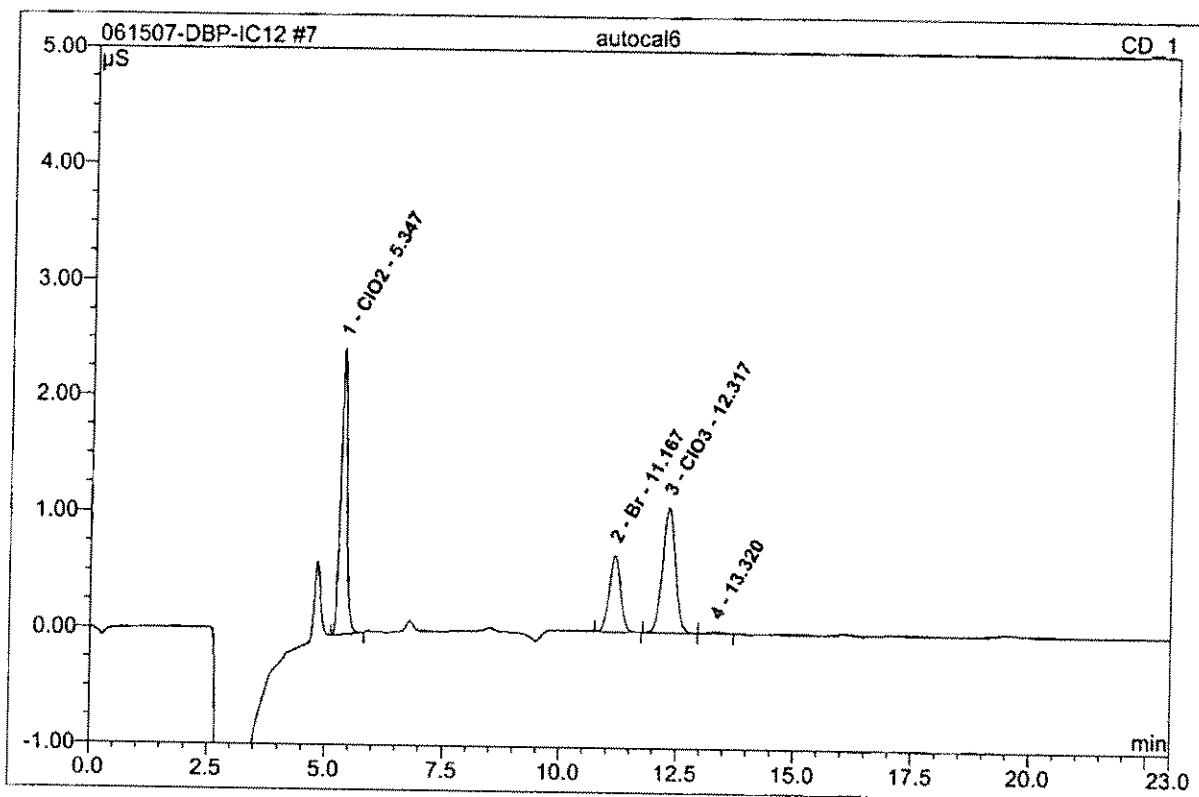
Sample Name:	autocal5	Injection Volume:	1000.0
Vial Number:	338	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 13:12	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.34	CIO2	1.228	0.196	41.47	202.709	BMB
2	11.16	Br	0.346	0.102	21.49	106.885	BMB*
3	12.32	CIO3	0.540	0.175	37.04	204.323	BMB
Total:			2.114	0.474	100.00	513.918	

7 autocal6**RAJA060520-7**

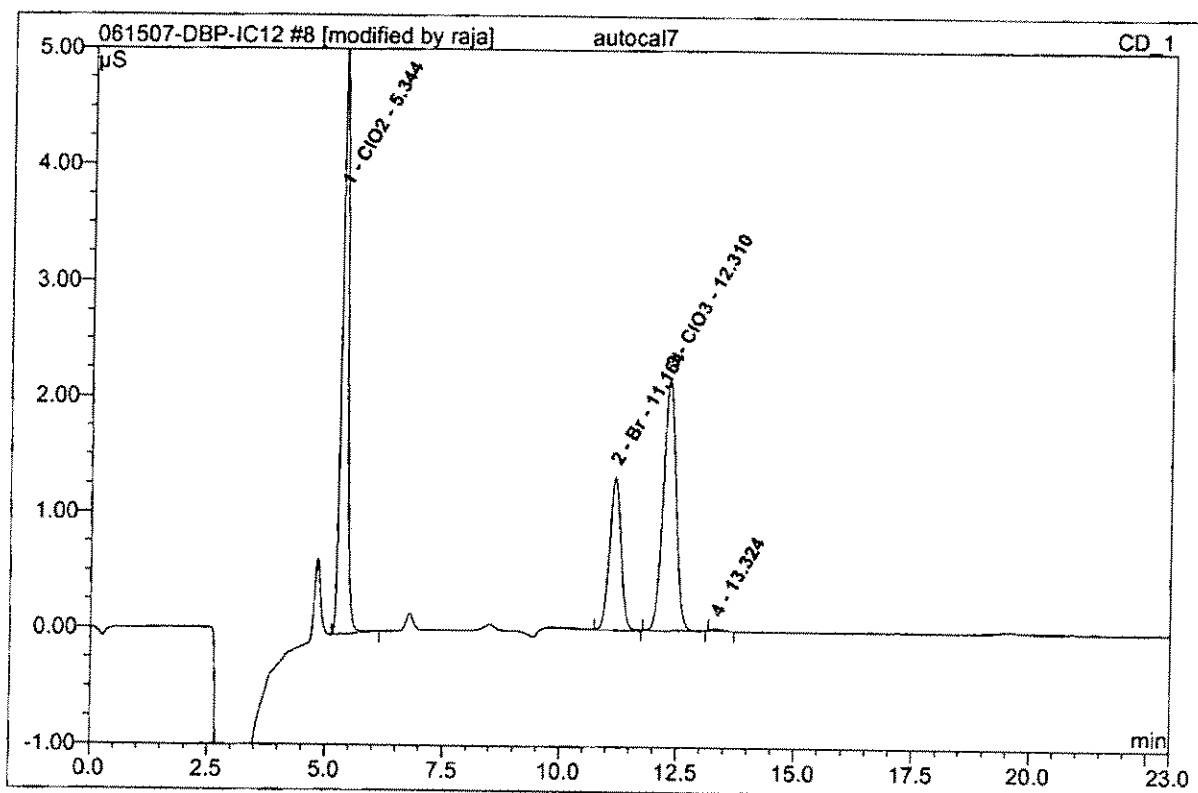
Sample Name:	autocal6	Injection Volume:	1000.0
Vial Number:	334	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 13:37	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.35	CIO2	2.461	0.387	42.06	398.236	BMB
2	11.17	Br	0.656	0.186	20.15	196.188	BMB
3	12.32	CIO3	1.067	0.343	37.23	398.503	BMB
4	13.32	n.a.	0.016	0.005	0.55	n.a.	BMB
Total:			4.200	0.921	100.00	992.927	

8 autocal7**RAJA060520-8**

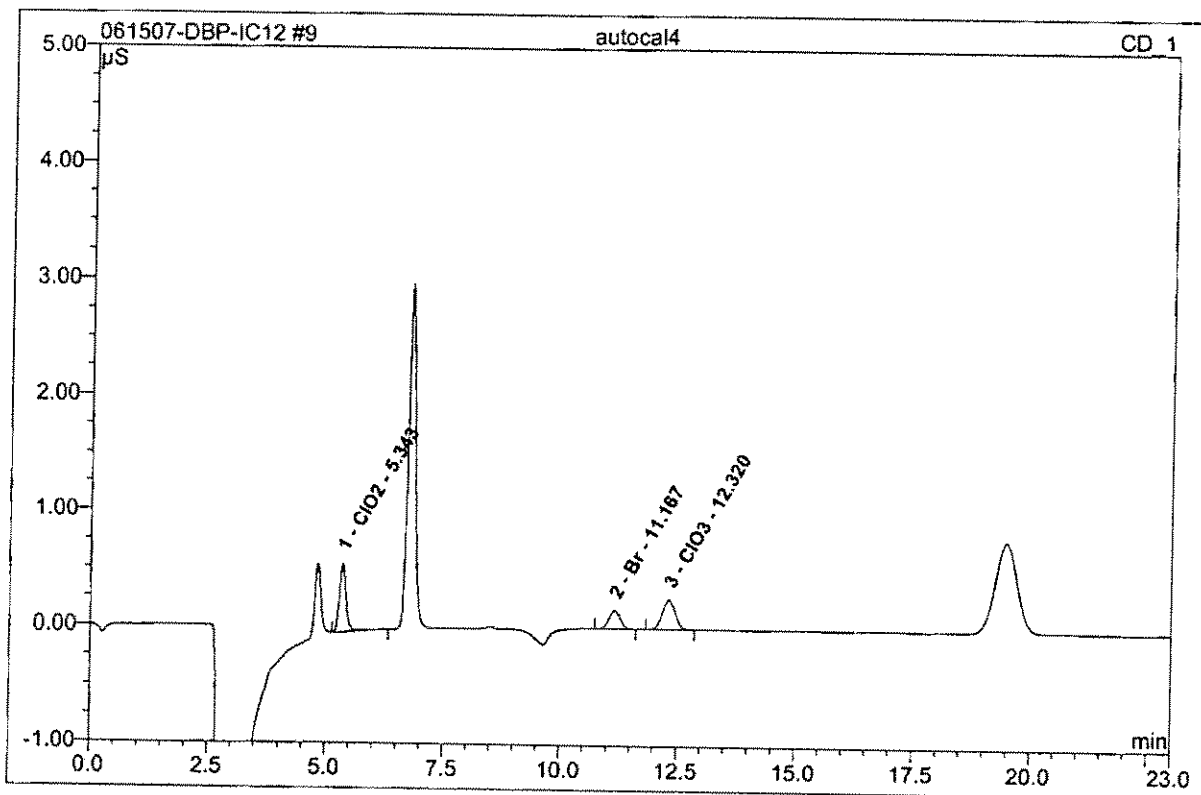
Sample Name:	autocal7	Injection Volume:	1000.0
Vial Number:	334	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 14:02	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	CIO2	5.067	0.795	42.79	800.268	BMB*
2	11.16	Br	1.317	0.372	20.01	400.589	BMB
3	12.31	CIO3	2.156	0.688	37.04	800.169	BMB*
4	13.32	n.a.	0.013	0.003	0.17	n.a.	BMB*
Total:			8.553	1.858	100.00	2001.026	

9 autocal4**RAJA060520-5**

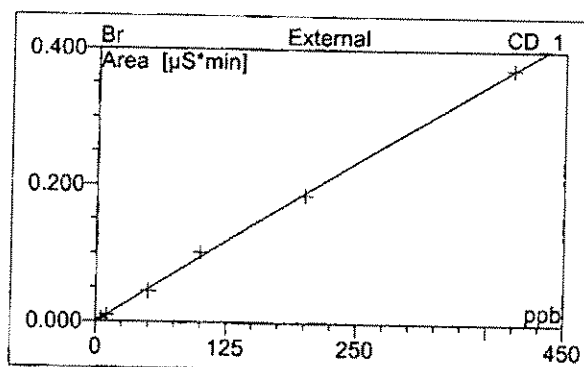
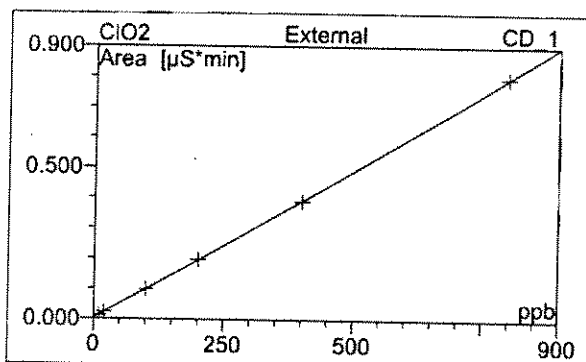
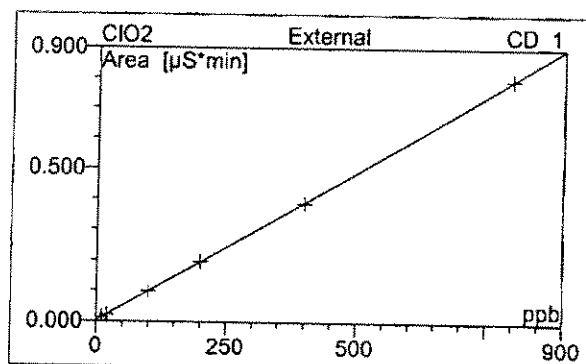
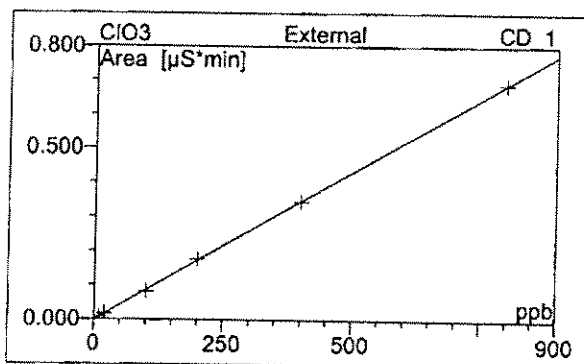
Sample Name:	autocal4	Injection Volume:	1000.0
Vial Number:	335	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 14:28	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	CIO2	0.590	0.098	43.58	99.626	BMB
2	11.17	Br	0.158	0.045	19.95	46.890	BMB
3	12.32	CIO3	0.254	0.082	36.47	95.828	BMB
Total:			1.002	0.224	100.00	242.344	

9 autocal4**RAJA060520-5**

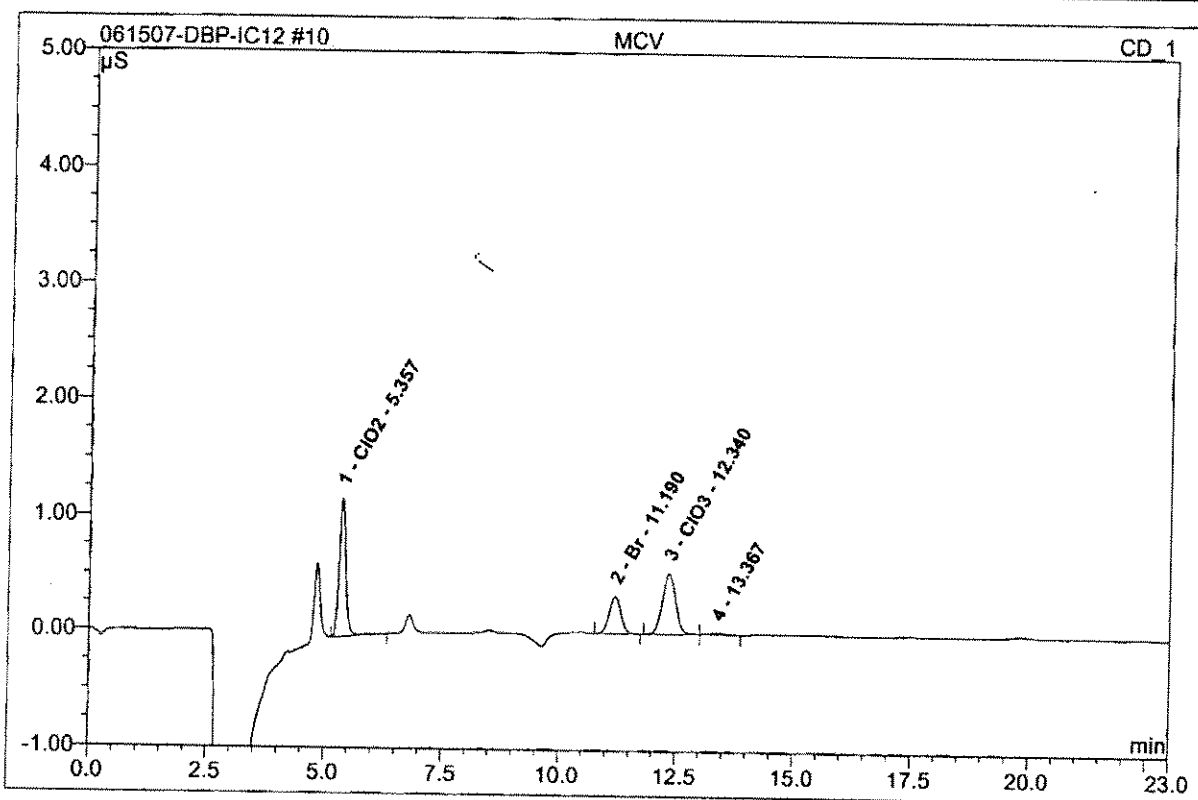
Sample Name:	autocal4	Injection Volume:	1000.0
Vial Number:	335	Channel:	CD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/12/2007 14:28	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	5.34	CIO2	QOff	6	99.9893	0.0035	0.0009	0.0000
2	11.17	Br	QOff	6	99.9617	-0.0004	0.0010	0.0000
3	12.32	CIO3	QOff	6	99.9957	-0.0012	0.0009	0.0000
Average:					99.9822	0.0006	0.0009	0.0000

10 MCV

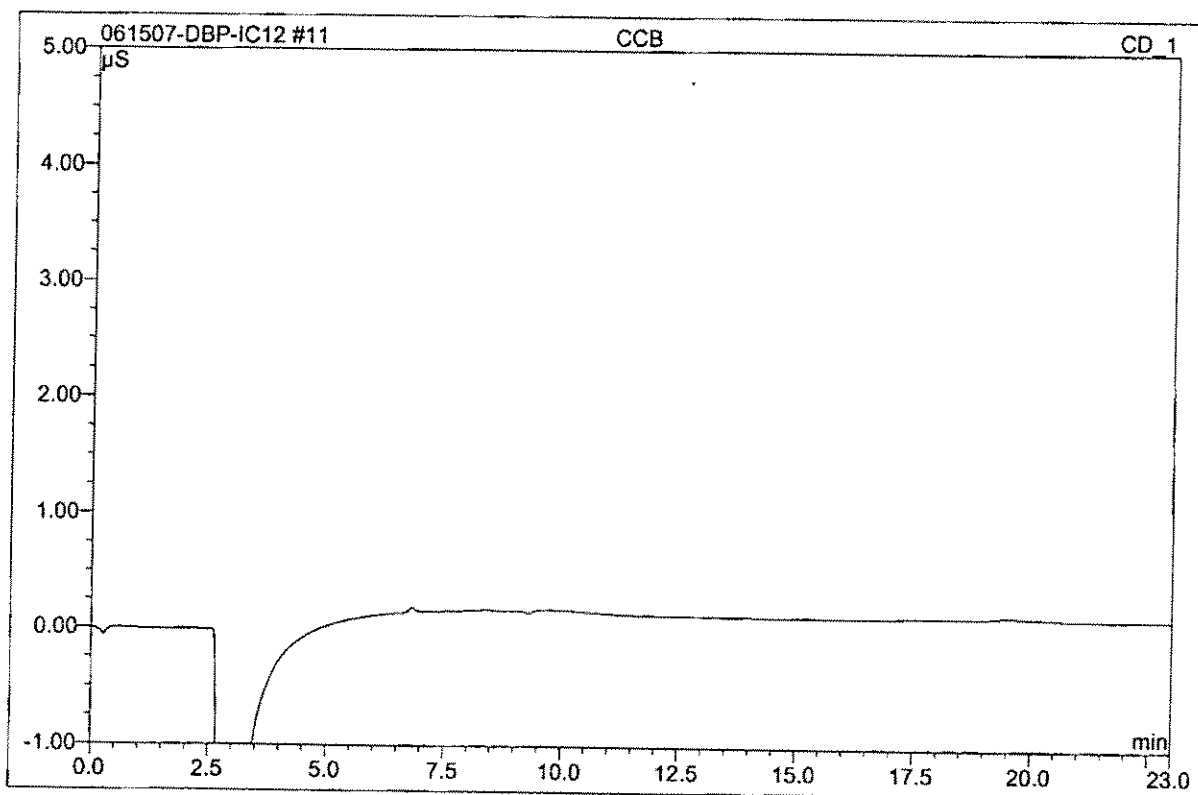
Sample Name:	MCV	Injection Volume:	1000.0
Vial Number:	337	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/15/2007 9:23	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Ref.Area %	Amount ppb	Type
1	5.36	ClO ₂	1.205	0.195	41.99	201.714	BMB
2	11.19	Br	0.326	0.093	19.91	97.269	BMB
3	12.34	ClO ₃	0.530	0.172	36.96	200.416	BM
4	13.37	n.a.	0.014	0.005	1.14	n.a.	MB
Total:			2.075	0.466	100.00	499.399	

11 CCB

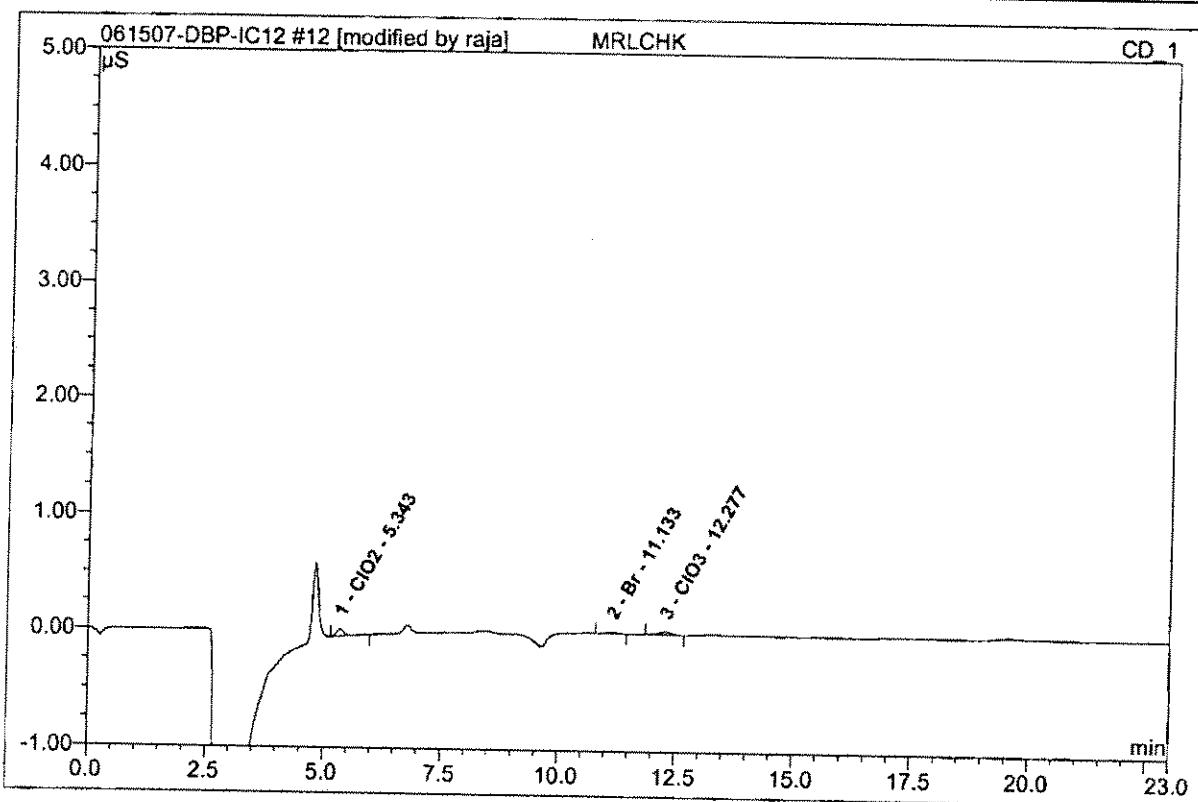
Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/15/2007 9:49	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

12 MRLCHK

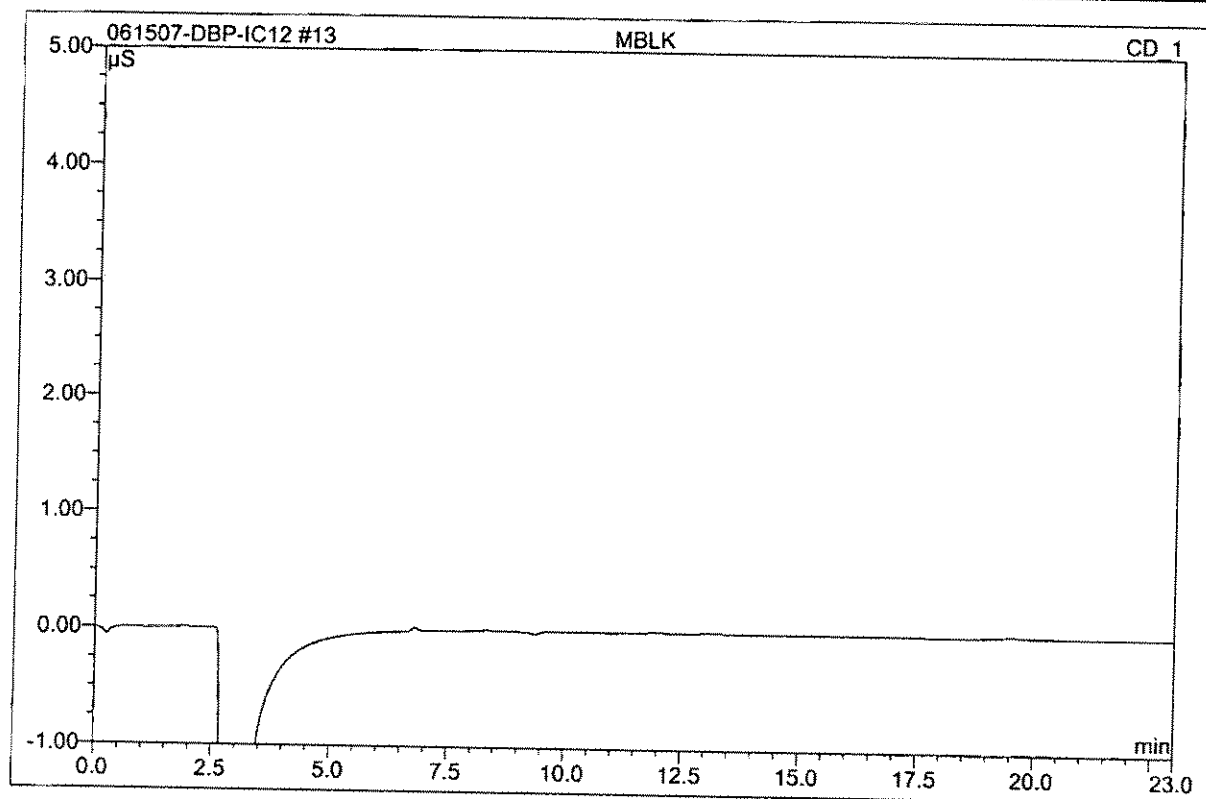
Sample Name:	MRLCHK	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/15/2007 10:14	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.34	CIO2	0.062	0.011	47.05	8.212	BMB
2	11.13	Br	0.016	0.004	18.59	4.985	BMB*
3	12.28	CIO3	0.026	0.008	34.36	10.800	BMB*
Total:			0.104	0.024	100.00	23.996	

13 MBLK

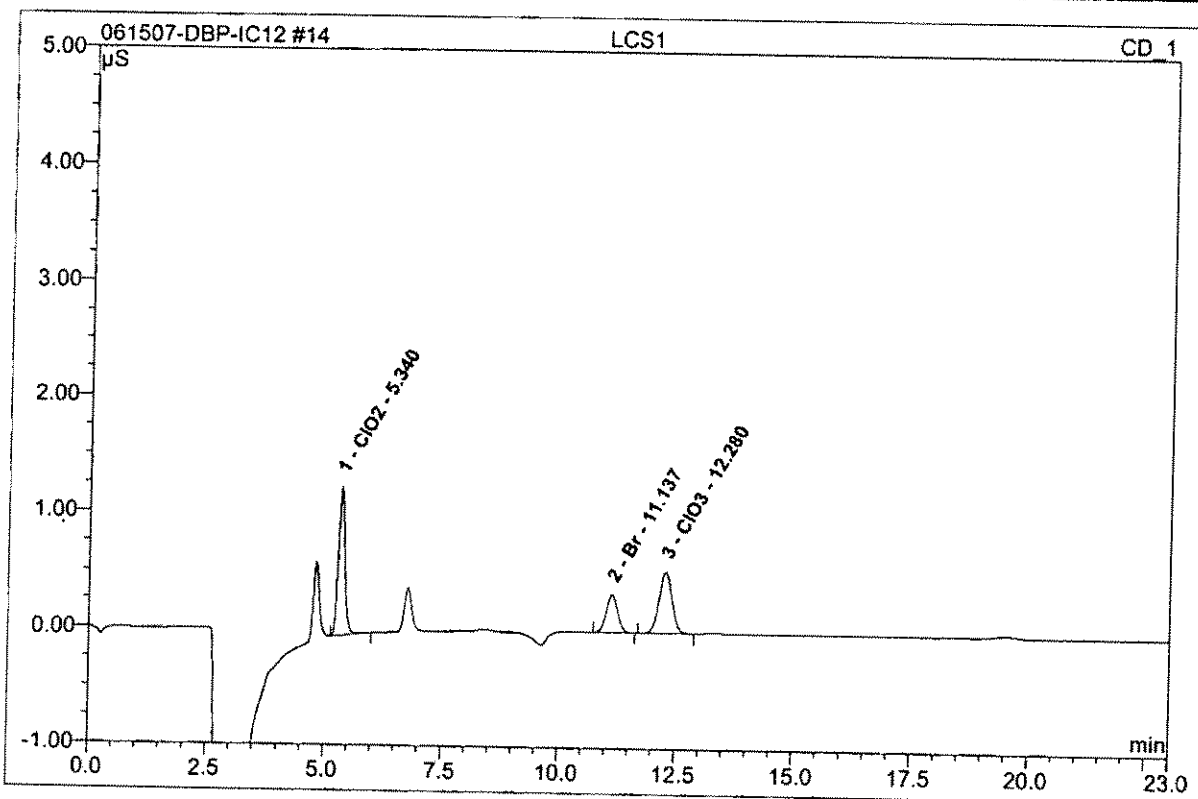
Sample Name:	MBLK	Injection Volume:	1000.0
Vial Number:	522	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/15/2007 10:39	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

14 LCS1

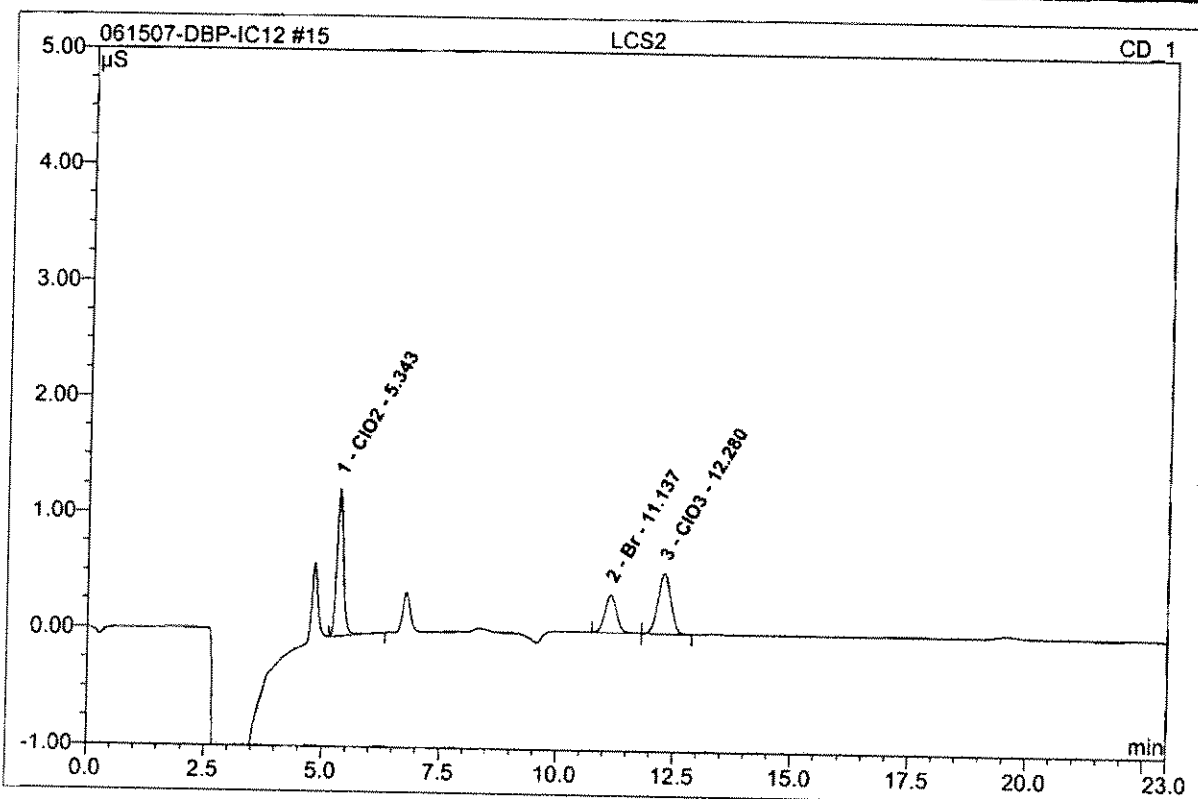
Sample Name:	LCS1	Injection Volume:	1000.0
Vial Number:	523	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/15/2007 11:05	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.34	CIO2	1.285	0.205	43.70	211.200	BMB
2	11.14	Br	0.328	0.093	19.78	97.196	BMB
3	12.28	CIO3	0.532	0.171	36.51	199.138	BMB
Total:			2.145	0.468	100.00	507.535	

15 LCS2

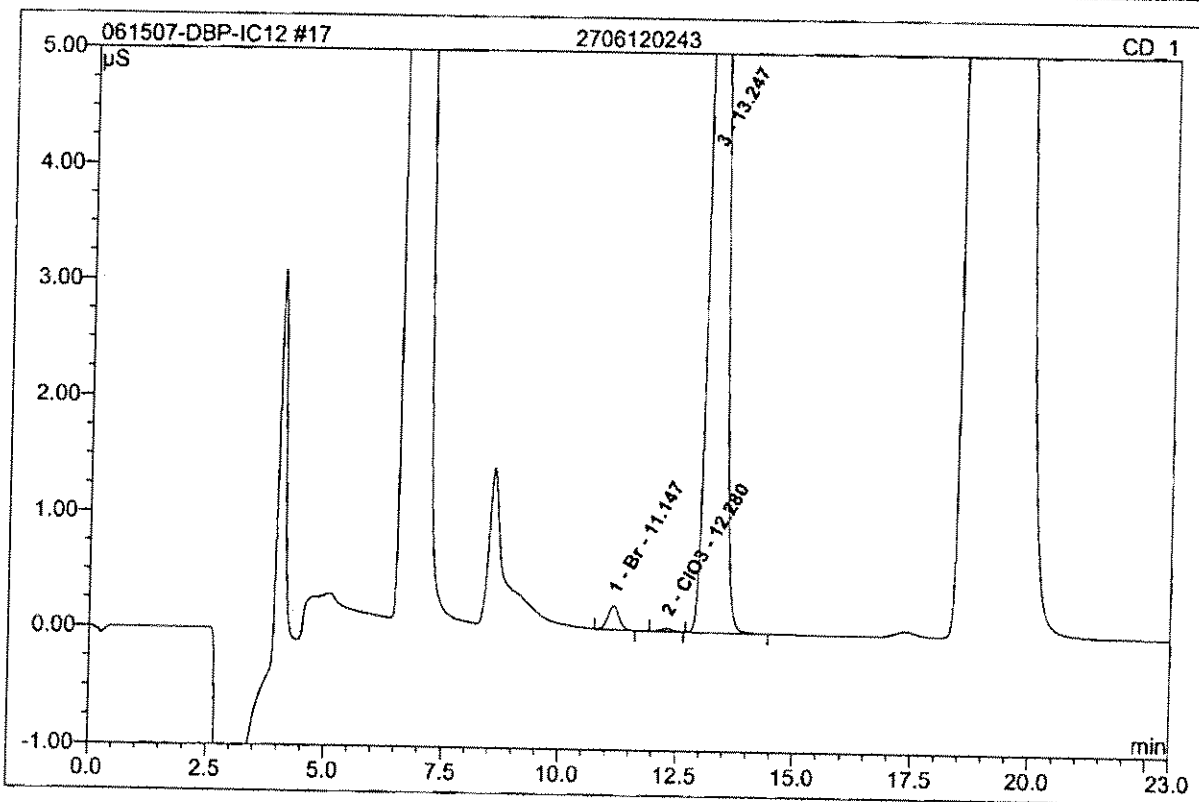
Sample Name:	LCS2	Injection Volume:	1000.0
Vial Number:	522	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/15/2007 11:30	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.34	CIO2	1.277	0.204	43.96	210.981	BMB
2	11.14	Br	0.327	0.094	20.15	98.334	BMB
3	12.28	CIO3	0.523	0.167	35.89	194.444	BMB
Total:			2.127	0.465	100.00	503.760	

17 2706120243**BR**

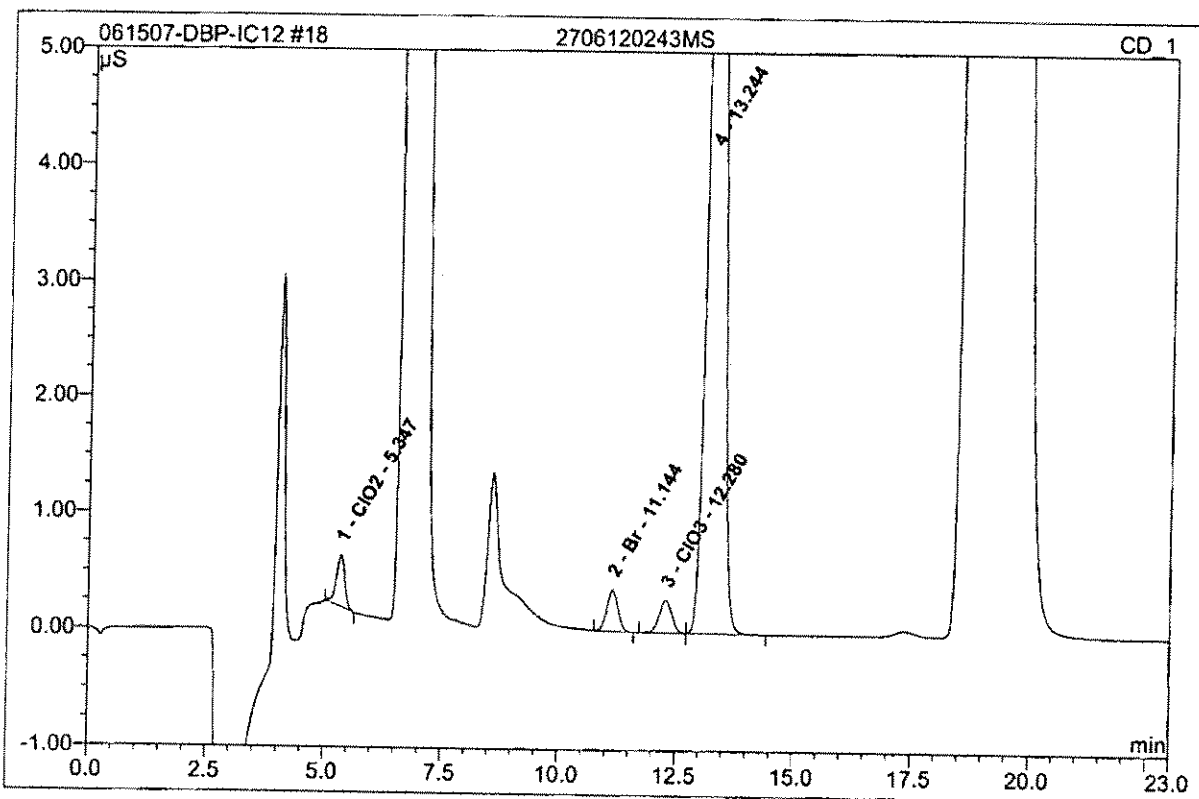
Sample Name:	2706120243	Injection Volume:	1000.0
Vial Number:	573	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/15/2007 12:21	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	11.15	Br	0.206	0.057	1.32	59.452	BMB
2	12.28	ClO3	0.027	0.008	0.19	10.638	BMB
3	13.25	n.a.	13.119	4.241	98.50	n.a.	BMB
Total:			13.352	4.305	100.00	70.090	

18 2706120243MS

Sample Name:	2706120243MS	Injection Volume:	1000.0
Vial Number:	575	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/15/2007 12:46	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000

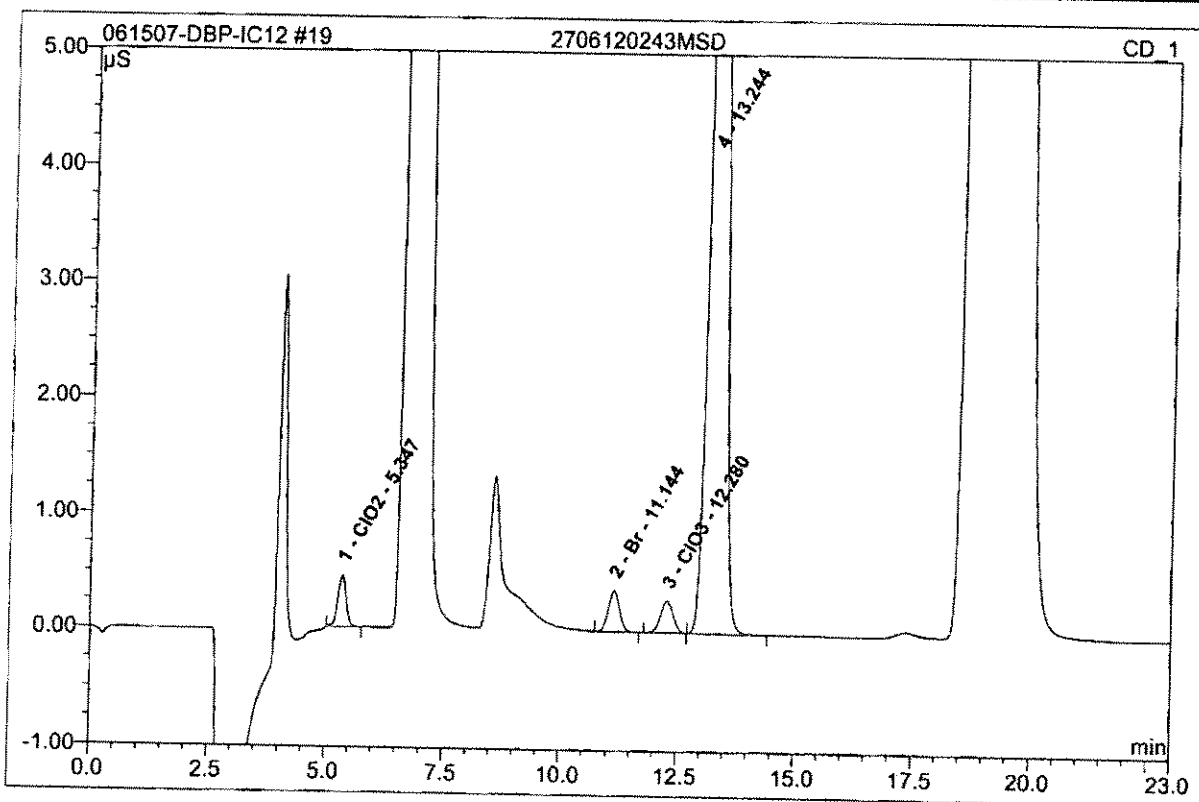


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppb	Type
1	5.35	CIO2	0.443	0.092	2.07	93.253	BMB
2	11.14	Br	0.358	0.098	2.23	103.362	BMB
3	12.28	CIO3	0.280	0.088	1.98	102.810	BMB
4	13.24	n.a.	12.814	4.144	93.72	n.a.	BMB
Total:			13.895	4.422	100.00	299.426	

19 2706120243MSD

Sample Name: 2706120243MSD
 Vial Number: 576
 Sample Type: unknown
 Control Program: IC12 test Program
 Quantif. Method: DBP-Method
 Recording Time: 6/15/2007 13:12
 Run Time (min): 23.00

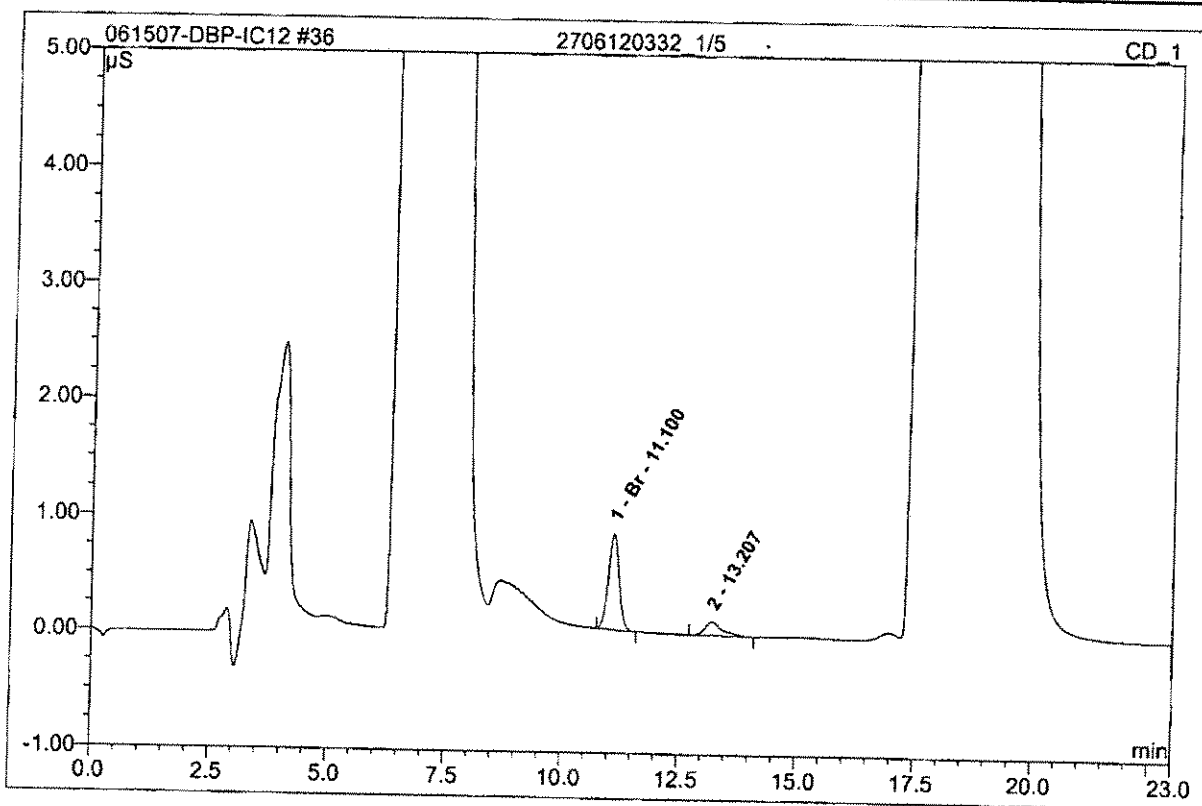
Injection Volume: 1000.0
 Channel: CD_1
 Wavelength: n.a.
 Bandwidth: n.a.
 Dilution Factor: 1.0000
 Sample Weight: 1.0000
 Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.35	ClO2	0.448	0.092	2.09	93.313	BMB
2	11.14	Br	0.357	0.099	2.25	103.467	BMB
3	12.28	ClO3	0.276	0.086	1.96	100.722	BMB
4	13.24	n.a.	12.729	4.115	93.71	n.a.	BMB
Total:			13.809	4.391	100.00	297.502	

36 2706120332_1/5**CLO3**

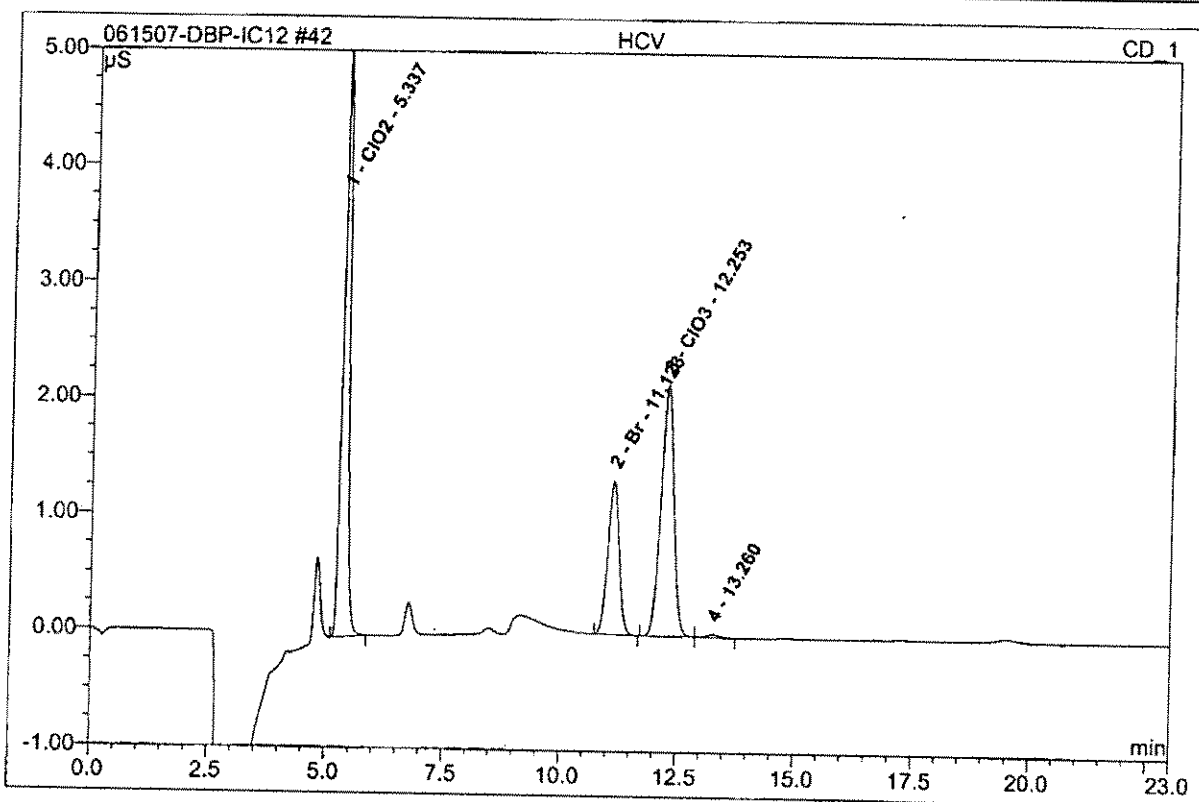
Sample Name:	2706120332_1/5	Injection Volume:	1000.0
Vial Number:	792	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	5.0000
Recording Time:	6/15/2007 20:24	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	11.10	Br	0.831	0.224	81.67	1188.281	BMB
2	13.21	n.a.	0.118	0.050	18.33	n.a.	BMB
Total:			0.949	0.274	100.00	1188.281	

42 HCV

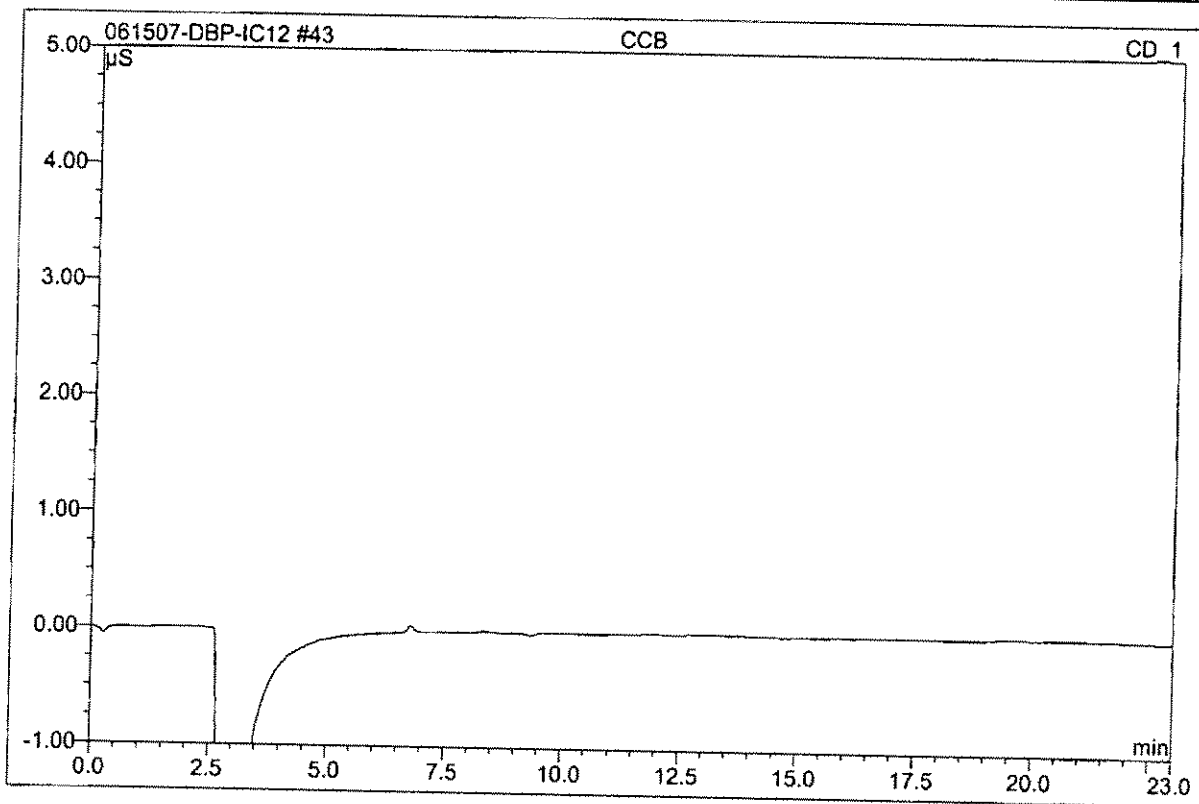
Sample Name:	HCV	Injection Volume:	1000.0
Vial Number:	785	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/15/2007 22:56	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	CIO2	5.147	0.796	42.66	800.723	BMB
2	11.12	Br	1.321	0.370	19.86	399.060	BMB
3	12.25	CIO3	2.162	0.691	37.03	803.010	BMB
4	13.26	n.a.	0.025	0.008	0.44	n.a.	bMB
Total:			8.655	1.865	100.00	2002.793	

43 CCB

Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	786	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	6/15/2007 23:21	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

Standard Preparation Worksheet & Certificate of Analysis

Reagent Preparation Documentation

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Reagent: DBP Calibration Stock Solution
 Date Received/Prepped: 032207 / 041007 / 050107 / 051707 / 1
 Date Expired: 042207 / 051007 / 060107 / 061707 / 1
 Manufacturer:
 Storage Condition:

MW #: Raja060520-2
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #:

Component	Comment	Standard	Concentration
Bromide 1000ppm Exp: 06/07	500uL & Add 50uL EDA solution [LMR060129-12] then	R201373	5ppm
Chlorate 1000ppm Exp: 06/07	1000uL dilute to 100ml with D.I. water	R201374	10ppm
Chlorite 1000ppm Exp: 06/07	1000uL	R201375	10ppm

Comment:

Reagent: DBP Calibration Standard #1
 Date Received/Prepped: 032207 / 041007 / 050107 / 051707 / 1
 Date Expired: 042207 / 051007 / 060107 / 061707 / 1
 Manufacturer:
 Storage Condition:

MW #: Raja060520-3
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #:

Component	Comment	Standard	Concentration
DBP cal. stock soln	100uL & Dilute with D.I. water to 100ml	Raja060520-2	Br-5ppb
EDA solution	50uL	LMR060129-12	ClO ₂ / ClO ₃ -10ppb

Comment:

Reagent: DBP Calibration Standard #2
 Date Received/Prepped: 032207 / 041007 / 050107 / 051707 / 1
 Date Expired: 042207 / 051007 / 060107 / 061707 / 1
 Manufacturer:
 Storage Condition:

MW #: Raja060520-4
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #:

Component	Comment	Standard	Concentration
DBP cal. stock soln	200uL & Dilute to 100ml with D.I. water	Raja060520-2	Br-10ppb
EDA	50uL	LMR060129-12	ClO ₂ - 20ppb ClO ₃ - 20ppb

Comment:

Reagent Preparation Documentation

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Reagent: DBP Calibration Standard #3
 Date Received/Prepped: 032207/041007/050107/051707/ /
 Date Expired: 042207/051007/060107/061707/ /
 Manufacturer:
 Storage Condition:

MW #: Raja060520-5
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #:

Component	Comment	Standard	Concentration
DBP Cal. Stock Soln	1ml ? Dilute to 100ml with D.I. water	Raja060520-2	Br-50ppb
EDA	50ml	LMR060129-12	ClO ₂ -100ppb
			ClO ₃ -100ppb

Comment:

Reagent: DBP Calibration Standard #4
 Date Received/Prepped: 032207/041007/050107/051707/ /
 Date Expired: 042207/051007/060107/061707/ /
 Manufacturer:
 Storage Condition:

MW #: Raja060520-6
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #:

Component	Comment	Standard	Concentration
DBP Cal. Stock Soln	2ml ? Dilute to 100ml with D.I. water	Raja060520-2	Br-100ppb
EDA	50ml	LMR060129-12	ClO ₂ -200ppb
			ClO ₃ -200ppb

Comment:

Reagent: DBP Calibration Standard #5
 Date Received/Prepped: 032207/041007/050107/051707/ /
 Date Expired: 042207/051007/060107/061707/ /
 Manufacturer:
 Storage Condition:

MW #: Raja060520-7
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #:

Component	Comment	Standard	Concentration
DBP Cal. Stock Soln	4ml ? with D.I. water dilute to 100ml	Raja060520-2	Br-200ppb
EDA	50ml	LMR060129-12	ClO ₂ -400ppb
			ClO ₃ -400ppb

Comment:

Reagent Preparation Documentation

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Reagent: DBP Calibration Standard #6
 Date Received/Prepped: 032207/041007/050107/051707/ 1
 Date Expired: 042207/051007/060107/061707/ 1
 Manufacturer: _____
 Storage Condition: _____

MW #: Raja060520-8
 By: Raja
 Matrix: aq
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
DBP Cal. Stock Soln	8ml } Dilute to 100ml with D.I. water	Raja060520-2	Br - 400ppb
EDA		LMR060129-12	ClO ₂ - 800ppb
			ClO ₃ - 800ppb

Comment: _____

Reagent: DBP LCS Stock Solution
 Date Received/Prepped: 032207/041007/050107/051707/053007/070207
 Date Expired: 042207/051007/060107/061707/063007/080207
 Manufacturer: _____
 Storage Condition: _____

MW #: Raja070322-1
 By: Raja
 Matrix: aq
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
Chlorite 100ppm Exp. 01/08	1000ul } Add 50uL of EDA (LMR060129-12) and	R201587	10ppm
Chlorate 100ppm Exp. 05/09		R201400	10ppm
Bromide 100ppm Exp. 10/07	500uL } dilute to 100ml with D.I. water	R201369	5ppm

Comment: _____

Reagent: DBP LCS Solution
 Date Received/Prepped: 032207/041007/050107/051707/053007/070207
 Date Expired: 042207/051007/060107/061707/063007/080207
 Manufacturer: _____
 Storage Condition: _____

MW #: Raja070322-2
 By: Raja
 Matrix: aq
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
DBP LCS Stock Soln	2ml } Dilute to 100ml with D.I. water	Raja070322-1	Br - 100ppb
EDA		LMR060129-12	ClO ₂ - 200ppb
			ClO ₃ - 200ppb

Comment: _____

1.0 **INORGANIC VENTURES** is an ISO Guide 34:2000 registered Certified Reference Material (CRM) Manufacturer (Certificate #883-02). The certificate is designed and the data is determined in accordance with ISO Guide 31:2000 (Reference Materials-Contents of Certificates and Labels), ISO Guide 34:2000 "Quality System Guidelines for the Production of Reference Materials," and ISO Guide 35-1989 "Certification of Reference Materials - General and Statistical Principles."

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Bromide in Water**

Catalog Number: ICBR1-1 and ICBR1-5

Lot Number: **Y-BR01057**

Starting Material: Potassium Bromide

Starting Material Purity (%): 99.0000

Starting Material Lot No.: 09014BY

Matrix: Water

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: $999 \pm 3 \mu\text{g/mL}$

Certified Density: 0.998 g/mL (measured at 22° C)

The Certified Value is the instrument analysis value. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_1}{n}$$

$(\bar{x})$ = mean

x_1 = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2[(\sum s_1^2)]^{1/2}}{(n)^{1/2}}$$

$\sum s_1$ = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement

weighting, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

The independent samples t-test was used to determine if there is agreement between the above assay methods at the 95% confidence interval. Both methods were compared and showed agreement within the stated uncertainties. This agreement is a confirmation of the accuracy of this CRM.

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

• "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

• This IV product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

Assay Method #1 **999 ± 3 µg/mL**

IC Assay NIST SRM 3184 Lot Number: 020701

Assay Method #2 **997 ± 3 µg/mL**

Volhard NIST SRM 999a Lot Number: 999a

10.0 QUALITY STANDARD DOCUMENTATION



R# 201373

10.1 ISO 9001:2000 Quality Management System Registration - QMI Certificate Number 010105

Recognized by:

Registrar Accreditation Board (ANSI-RAB)

Standards Council of Canada (SCC)

Dutch Council for Accreditation (RVA)

Entidad Mexicana de Acreditacion, a.c.(EMA)

Members of IQ Net International Certification Network:

Argentina (IRAM), Australia (QAS), Austria (ÖQS), Belgium (Avinter), Brazil (FCAV), Canada (QMI), Hong Kong (HKQAA), Columbia (ICONTEC), Czech Republic (CQS), Denmark (DS), Finland (SFS), France (AFAQ), Germany (DQS), Greece (ELOT), Hungary (MSZT), Ireland (NSAI), Israel (SII), Italy (CISQ), Japan (JQA), Korea (KSA-QA), Netherlands (KEMA), Norway (NCS), Poland(PCBC), Portugal (APCER), Singapore (PSB), Slovenia (SIQ), Spain (AENOR), Switzerland (SQS)

10.2 ISO/IEC 17025 - 1999 "General Requirements for the Competence of Testing and Calibration" - Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 - 2000 "General Requirements for the Competence of Reference Material Producers" - Reference Materials Production - Accredited A2LA Certificate Number 883.02

A2LA Mutual Recognition Agreement Partners:

Australia (NATA), Austria (BmWA), Belgium (BELTEST) (BKO-OBE), Canada (SCC), Chinese Taipei (CNLA), Czech Republic (NAO), Denmark (DANAK), Finland (FINAS), France (COFRAC), Germany (DAR), Hong Kong (HKAS), Ireland (NAB), Italy (SIT) (SINAL), Japan (JAB) (JNLA), Republic of Korea (KOLAS), The Netherlands (RvA), New Zealand (IANZ), Norway (NA), Portugal (IPQ), Singapore (SAC-SINGLAS), Spain (ENAC), Sweden (SWEDAC), Switzerland (SAS), United Kingdom (UKAS) and United States (NVLAP) (ICBO ES)

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission - Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission - Reporting Defects and Non-Compliance

10.6 MIL-STD-45662A (Obsolete/Observed)

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 **IV Shelf Life** - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies (P-SP01020) of chemically-stable solutions performed at the Manufacture's facility shows a CRM shelf-life of four years for solutions packaged in 500-mL low density polyethylene bottles. When stored under special environmental controls that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 **Expiration Date** - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. The manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

Certification Date: February 28, 2006

Expiration Date: **EXPIRES**

12/2007

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Nick Maida, QA Administrator

Nicholas Maida

Certificate Approved By: Katalin Le, QC Manager

Katalin Le

Certifying Officer: Paul Gaines, PhD., Technical Director

Paul R. Gaines

I-CAL ION CHROMATOGRAPHY SOLUTION 1000 µg/mL Chlorate in H₂O

Catalog No: ICCLO31-1 and ICCLO31-5

Lot Number: **Y-CLOX01034**

Starting Material:

Potassium Chlorate

Starting Material Lot No:

02407TF

CERTIFIED CONCENTRATION: 1008 ± 3 µg/mL

The Certified Value is the Inductively Coupled Plasma Spectroscopy (ICP) value. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\sum s_i^2)^{1/2}]}{(n)^{1/2}}$$

($\bar{x}$) = mean

x_i = individual results

n = number of measurements

$\sum S_i$ = The summation of all significant estimated errors.

Calculated Value: 1001 ± 5 µg/mL

Method: Calculated, based on starting material.

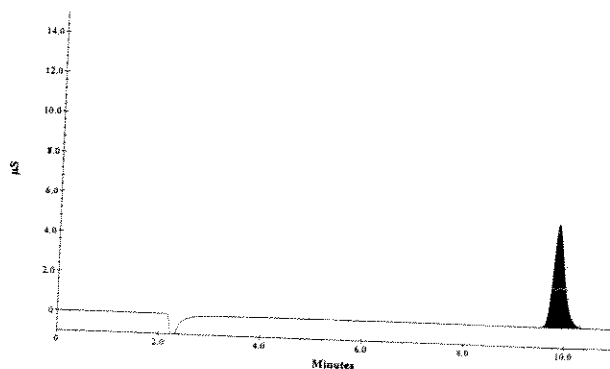
Instrument Value: 1006 ± 2 µg/mL

Method: Ion Chromatography vs an in-house standard.

Instrument Value: 1008 ± 3 µg/mL

Method: Analysis by Inductively Coupled Plasma Spectroscopy (ICP) vs NIST SRM 3182 Lot number: 990506.

ClO₃⁻ Y-CLOX01034



DIONEX DX-120 Ion Chromatograph
Anal. Column: IonPac AS9-HC 4 x 250mm
Guard Column: IonPac AG9-HC 4 x 50mm
Anion self Generating Suppressor:
ASRS-ULTRA II 4mm
Suppressor Current: 100mA
Eluent: 9.0 mM Na₂CO₃
Eluent Flow Rate: 1.0 mL/min
Cell Temp.: 35 °C
Scale: Y-axis = 15µS scale
X-axis = minutes
Concentration: 20µg/g

ANALYZED DENSITY OF SOLUTION (measured at 22°C): **0.998 g/mL**

QA:MG

Rev 052405ntm

Paul R. Gaines

Expires: **EXPIRES**
1/1/2007



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CERTIFICATE OF ANALYSIS

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I-CAL ION CHROMATOGRAPHY SOLUTION 1000 µg/mL Chlorite in H₂O

Catalog No: ICCLO21-1 and ICCLO21-5

Lot Number: **Y-CLOX01036**

Starting Material:

Sodium Chlorite

Starting Material Lot No:

E02F39

CERTIFIED CONCENTRATION: 998 ± 3 µg/mL

* The Certified Concentration for Lot No. Y-CLOX01036 is only the ClO₂⁻. The value of Cl⁻ is 6 ± 1 µg/mL, and the value of ClO₃⁻ is 12 ± 1 µg/mL. This was determined by Ion Chromatography vs an in-house standard solutions traceable to NIST SRM 3182.

The Certified Value is based upon the wet assay value. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean

x_i = individual results

n = number of measurements

$\sum s_i$ = The summation of all significant estimated errors.

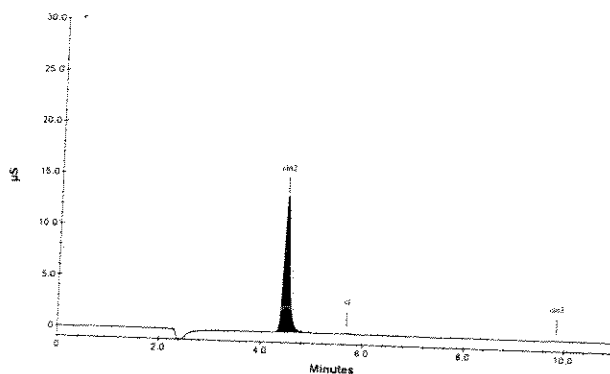
Instrument Value: 1002 ± 2 µg/mL

Method: Ion Chromatography vs NIST SRM 136e Lot number 980702.

Wet Analysis: 998 ± 3 µg/mL

Method: Iodometric Titration NIST SRM 136e Lot number 980702.

ClO₂⁻ Y-CLOX01036



DIONEX DX-120 Ion Chromatograph
Anal. Column: IonPac AS9-HC 4 x 250mm
Guard Column: IonPac AG9-HC 4 x 50mm
Anion self Generating Suppressor:
ASRS-ULTRA II 4mm
Suppressor Current: 100mA
Eluent: 9 mM Na₂CO₃
Eluent Flow Rate: 1.00 mL/min
Cell Temp.: 35 °C
Scale: Y-axis = 30µS scale
X-axis = minutes
Concentration: 20µg/g

ANALYZED DENSITY OF SOLUTION (measured at 22°C): **0.998 g/mL**

QA:KL Rev 032006NTM

Paul R. Gaines

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Quality Assurance Manager

Expires:

EXPIRES
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