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Level IV Data Package

MWH Group 203157

Method: SW 846 9056 CLO3

Sample No.:

2705010703

2705010709

2705010717

DBP QC Checklist

Analysis Date: 05-03-07 Analyst: Raja

QC'd by im Date 9 May 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 N/A 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) N/A BR: 90-110% (90-110ppb)

CCB is analyzed before samples and after MCV and HCV

MLBANK is analyzed before samples. CLO2/CLO3 N/A 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)

N/A 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

N/A 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

N/A 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)

N/A BR (90-110ppb)

HCV recovery is between 90-110%

CLO2 (720-880ppb)

CLO3 (720-880ppb)

N/A 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

3

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

DBP QC Checklist

Analysis Date: 05-04-07 Analyst: Raja

QC'd by m Date 9 May 07

Instrument: IC12

Batch # 2

Calibration including QCS(Secondary Source)

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

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

CCB is analyzed before samples and after MCV and HCV

MBLANK is analyzed before samples. CLO2/CLO3 N/A 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)

N/A 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

N/A 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

N/A 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) N/A BR (90-110ppb)

HCV recovery is between 90-110%

CLO2 (720-880ppb) CLO3 (720-880ppb) N/A 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 CLO3 CD_1	
1,	autocal1,		05/01/07 10:54,	1.0,	n.a.	
2,	autocal2,	RAJA060520-3	05/01/07 11:19,	1.0,	10.1329	
3,	autocal3,	RAJA060520-4	05/01/07 11:45,	1.0,	19.4092	
4,	autocal4,	RAJA060520-5	05/01/07 12:10,	1.0,	100.8718	
5,	autocal5,	RAJA060520-6	05/01/07 12:36,	1.0,	199.5885	
6,	autocal6,	RAJA060520-7	05/01/07 13:01,	1.0,	399.981	
7,	autocal7,	RAJA060520-8	05/01/07 13:26,	1.0,	800.0166	
8,	WASH,		05/03/07 10:57,	1.0,	n.a.	
9,	MCV,		05/03/07 11:23,	1.0,	203.1106	102%
10,	CCB,		05/03/07 11:48,	1.0,	n.a.	
11,	MRLCHK,		05/03/07 12:13,	1.0,	11.1499	111% ✓
12,	MBLK,		05/03/07 12:39,	1.0,	n.a.	
13,	LCS1,		05/03/07 13:04,	1.0,	198.9166	99.5% ✓
14,	LCS2,		05/03/07 13:30,	1.0,	202.4428	101% ✓
15,	2705010113,	CLO2	05/03/07 13:55,	1.0,	n.a.	
16,	2705010113MS,		05/03/07 14:20,	1.0,	92.4719	92.5% ✓
17,	2705010113MSD,		05/03/07 14:46,	1.0,	94.1458	94.1% ✓
18,	2704270078_1/500-DN	BR	05/03/07 15:11,	500.0,	n.a.	
19,	2705010089_1/5000-D	CLO3	05/03/07 15:37,	5000.0,	n.a.	
20,	2704270164_1/5,	CLO3	05/03/07 16:02,	5.0,	201.2699	✓
21,	2705010137_1/10,	CLO39056	05/03/07 16:27,	10.0,	3537.747	✓
22,	2705010418-DNR,	BR	05/03/07 16:53,	1.0,	254.7534	
23,	2705010420-DNR,	BR	05/03/07 17:18,	1.0,	14.5761	
24,	2705020217-DNR,	BR	05/03/07 17:44,	1.0,	3282.976	
25,	2705020227-DNR,	BR	05/03/07 18:09,	1.0,	n.a.	
26,	2705020258-DNR,	BR	05/03/07 18:34,	1.0,	n.a.	
27,	MCV,		05/03/07 19:00,	1.0,	200.5498	100%
28,	CCB,		05/03/07 19:25,	1.0,	n.a.	
29,	2705020090,	CLO2/CLO3	05/03/07 19:51,	1.0,	56.9938	✓
30,	2705020137,	CLO2/CLO3	05/03/07 20:16,	1.0,	93.6337	✓
31,	2705020139,	CLO2/CLO3	05/03/07 20:41,	1.0,	26.4124	✓
32,	2705020139MS,		05/03/07 21:07,	1.0,	119.0162	92.6% ✓
33,	2705020139MSD,		05/03/07 21:32,	1.0,	119.9611	93.5% ✓
34,	2705020867,	CLO2/CLO3	05/03/07 21:58,	1.0,	33.6172	✓
35,	2705020868,	CLO2/CLO3	05/03/07 22:23,	1.0,	n.a.	✓
36,	2705020869,	CLO2/CLO3	05/03/07 22:48,	1.0,	242.2078	✓
37,	2705020778,	CLO2	05/03/07 23:14,	1.0,	n.a.	
38,	2705010140_1/1000,	CLO39056	05/03/07 23:39,	1000.0,	67162.06	✓
39,	2705010702_1/50-DNF	CLO39056	05/04/07 00:05,	50.0,	n.a.	
40,	2705010703_1/100,	CLO39056	05/04/07 00:30,	100.0,	68728.66	✓
41,	HCV,		05/04/07 00:55,	1.0,	804.0787	101% ✓
42,	CCB,		05/04/07 01:21,	1.0,	n.a.	
43,	MCV,		05/04/07 01:46,	1.0,	200.4611	100% ✓
44,	CCB,		05/04/07 02:12,	1.0,	n.a.	
45,	MRLCHK,		05/04/07 02:37,	1.0,	9.915	99.2% ✓
46,	MBLK,		05/04/07 03:02,	1.0,	n.a.	
47,	LCS1,		05/04/07 03:28,	1.0,	203.9949	102% ✓
48,	LCS2,		05/04/07 03:53,	1.0,	195.5742	97.8% ✓

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb CLO3 CD_1	
49,	2705020877,	CLO2/CLO3	05/04/07 04:19,	1.0,	16.8778 ✓	
50,	2705020877MS,		05/04/07 04:44,	1.0,	109.6442 ✓	92.8% ✓
51,	2705020877MSD,		05/04/07 05:09,	1.0,	108.79 ✓	91.9% ✓
52,	2705010709_1/10,	CLO39056	05/04/07 05:35,	10.0,	176.3369 ✓	
53,	2705010712_1/10-DNF	CLO39056	05/04/07 06:00,	10.0,	1184.061 ✓	
54,	2705010716_1/1000,	CLO39056	05/04/07 06:26,	1000.0,	111212.2 ✓	
55,	2705010717_1/10-DNF	CLO39056	05/04/07 06:51,	10.0,	74.9489 ✓	
56,	2705020800_1/100,	CLO39056	05/04/07 07:16,	100.0,	18993.47 ✓	
57,	2705020801_1/100,	CLO39056	05/04/07 07:42,	100.0,	18191.32 ✓	
58,	2705020813_1/10-DNF	CLO39056	05/04/07 08:07,	10.0,	181.0154 ✓	
59,	2705020860_1/10000,	CLO39056	05/04/07 08:33,	10000.0,	3435387 ✓	
60,	2705020862_1/1000,	CLO39056	05/04/07 08:58,	1000.0,	220145 ✓	
61,	MCV,		05/04/07 09:23,	1.0,	199.5306 ✓	99.8% ✓
62,	CCB,		05/04/07 09:49,	1.0,	n.a.	
63,	2705020864_1/500,	CLO39056	05/04/07 10:14,	500.0,	19227.05 ✓	
64,	2705030182_1/10000,	CLO39056	05/04/07 10:40,	10000.0,	1384236 ✓	
65,	2705030202,	CLO2/CLO3	05/04/07 11:05,	1.0,	n.a. ✓	
66,	2705030202MS,		05/04/07 11:30,	1.0,	95.0056 ✓	95.0% ✓
67,	2705030202MSD,		05/04/07 11:56,	1.0,	91.2357 ✓	91.2% ✓
68,	2705030087,	CLO2	05/04/07 12:21,	1.0,	128.5606 ✓	
69,	2705030088,	CLO2	05/04/07 12:46,	1.0,	129.831 ✓	
70,	2705030089,	CLO2	05/04/07 13:12,	1.0,	132.5726 ✓	
71,	2705030090,	CLO2	05/04/07 13:37,	1.0,	134.7359 ✓	
72,	2705030103,	CLO2	05/04/07 14:03,	1.0,	119.6479 ✓	
73,	2705030105,	CLO2	05/04/07 14:28,	1.0,	383.6674 ✓	
74,	2705030106,	CLO2	05/04/07 14:53,	1.0,	107.339 ✓	
75,	HCV,		05/04/07 15:23,	1.0,	791.923 ✓	99.0% ✓
76,	CCB,		05/04/07 15:48,	1.0,	n.a.	

✓ B: NMS/10/07

Sequence: 050307-DBP-IC12
Operator: raja

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Title:
Datasource: IC-SERVER_local
Location: IC12\2007MAY
Timebase: IC12
#Samples: 76

Created: 5/2/2007 1:10:43 PM by raja
Last Update: 5/4/2007 12:07:15 PM by raja

No.	Name	Comment	Dil. Factor	Sample ID	Type	Program
1	autocal1		1.0000		Standard	IC12 test Program
2	autocal2	RAJA060520-3	1.0000		Standard	IC12 test Program
3	autocal3	RAJA060520-4	1.0000		Standard	IC12 test Program
4	autocal4	RAJA060520-5	1.0000		Standard	IC12 test Program
5	autocal5	RAJA060520-6	1.0000		Standard	IC12 test Program
6	autocal6	RAJA060520-7	1.0000		Standard	IC12 test Program
7	autocal7	RAJA060520-8	1.0000		Standard	IC12 test Program
8	WASH		1.0000		Unknown	IC12 test Program
9	MCV		1.0000		Unknown	IC12 test Program
10	CCB		1.0000		Unknown	IC12 test Program
11	MRLCHK		1.0000		Unknown	IC12 test Program
12	MBLK		1.0000		Unknown	IC12 test Program
13	LCS1		1.0000		Unknown	IC12 test Program
14	LCS2		1.0000		Unknown	IC12 test Program
15	2705010113	CLO2	1.0000		Unknown	IC12 test Program
16	2705010113MS		1.0000		Unknown	IC12 test Program
17	2705010113MSD		1.0000		Unknown	IC12 test Program
18	2704270078_1/500-DNR	BR	500.0000		Unknown	IC12 test Program
19	2705010089_1/5000-DNR	CLO3	5000.0000		Unknown	IC12 test Program
20	2704270164_1/5	CLO3	5.0000		Unknown	IC12 test Program
21	2705010137_1/10	CLO39056	10.0000		Unknown	IC12 test Program
22	2705010418-DNR	BR	1.0000		Unknown	IC12 test Program
23	2705010420-DNR	BR	1.0000		Unknown	IC12 test Program
24	2705020217-DNR	BR	1.0000		Unknown	IC12 test Program
25	2705020227-DNR	BR	1.0000		Unknown	IC12 test Program
26	2705020258-DNR	BR	1.0000		Unknown	IC12 test Program
27	MCV		1.0000		Unknown	IC12 test Program
28	CCB		1.0000		Unknown	IC12 test Program
29	2705020090	CLO2/CLO3	1.0000		Unknown	IC12 test Program
30	2705020137	CLO2/CLO3	1.0000		Unknown	IC12 test Program
31	2705020139	CLO2/CLO3	1.0000		Unknown	IC12 test Program
32	2705020139MS		1.0000		Unknown	IC12 test Program
33	2705020139MSD		1.0000		Unknown	IC12 test Program
34	2705020867	CLO2/CLO3	1.0000		Unknown	IC12 test Program
35	2705020868	CLO2/CLO3	1.0000		Unknown	IC12 test Program
36	2705020869	CLO2/CLO3	1.0000		Unknown	IC12 test Program
37	2705020778	CLO2	1.0000		Unknown	IC12 test Program
38	2705010140_1/1000	CLO39056	1000.0000		Unknown	IC12 test Program
39	2705010702_1/50-DNR	CLO39056	50.0000		Unknown	IC12 test Program
40	2705010703_1/100	CLO39056	100.0000		Unknown	IC12 test Program
41	HCV		1.0000		Unknown	IC12 test Program
42	CCB		1.0000		Unknown	IC12 test Program

Sequence: 050307-DBP-IC12
Operator: raja

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Title:
Datasource: IC-SERVER_local
Location: IC12\2007MAY
Timebase: IC12
#Samples: 76

Created: 5/2/2007 1:10:43 PM by raja
Last Update: 5/4/2007 12:07:15 PM by raja

No.	Name	Method	Status	Inj. Date/Time	*Analyst
1	autocal1	DBP-Method	Finished	5/1/2007 10:54:27 AM	raja
2	autocal2	DBP-Method	Finished	5/1/2007 11:19:51 AM	raja
3	autocal3	DBP-Method	Finished	5/1/2007 11:45:15 AM	raja
4	autocal4	DBP-Method	Finished	5/1/2007 12:10:39 PM	raja
5	autocal5	DBP-Method	Finished	5/1/2007 12:36:03 PM	raja
6	autocal6	DBP-Method	Finished	5/1/2007 1:01:26 PM	raja
7	autocal7	DBP-Method	Finished	5/1/2007 1:26:50 PM	raja
8	WASH	DBP-Method	Finished	5/3/2007 10:57:48 AM	raja
9	MCV	DBP-Method	Finished	5/3/2007 11:23:11 AM	raja
10	CCB	DBP-Method	Finished	5/3/2007 11:48:35 AM	raja
11	MRLCHK	DBP-Method	Finished	5/3/2007 12:13:59 PM	raja
12	MBLK	DBP-Method	Finished	5/3/2007 12:39:23 PM	raja
13	LCS1	DBP-Method	Finished	5/3/2007 1:04:47 PM	raja
14	LCS2	DBP-Method	Finished	5/3/2007 1:30:10 PM	raja
15	2705010113	DBP-Method	Finished	5/3/2007 1:55:34 PM	raja
16	2705010113MS	DBP-Method	Finished	5/3/2007 2:20:58 PM	raja
17	2705010113MSD	DBP-Method	Finished	5/3/2007 2:46:22 PM	raja
18	2704270078_1/500-DNR	DBP-Method	Finished	5/3/2007 3:11:46 PM	raja
19	2705010089_1/5000-DNR	DBP-Method	Finished	5/3/2007 3:37:09 PM	raja
20	2704270164_1/5	DBP-Method	Finished	5/3/2007 4:02:33 PM	raja
21	2705010137_1/10	DBP-Method	Finished	5/3/2007 4:27:57 PM	raja
22	2705010418-DNR	DBP-Method	Finished	5/3/2007 4:53:20 PM	raja
23	2705010420-DNR	DBP-Method	Finished	5/3/2007 5:18:44 PM	raja
24	2705020217-DNR	DBP-Method	Finished	5/3/2007 5:44:08 PM	raja
25	2705020227-DNR	DBP-Method	Finished	5/3/2007 6:09:32 PM	raja
26	2705020258-DNR	DBP-Method	Finished	5/3/2007 6:34:56 PM	raja
27	MCV	DBP-Method	Finished	5/3/2007 7:00:20 PM	raja
28	CCB	DBP-Method	Finished	5/3/2007 7:25:44 PM	raja
29	2705020090	DBP-Method	Finished	5/3/2007 7:51:08 PM	raja
30	2705020137	DBP-Method	Finished	5/3/2007 8:16:32 PM	raja
31	2705020139	DBP-Method	Finished	5/3/2007 8:41:56 PM	raja
32	2705020139MS	DBP-Method	Finished	5/3/2007 9:07:20 PM	raja
33	2705020139MSD	DBP-Method	Finished	5/3/2007 9:32:44 PM	raja
34	2705020867	DBP-Method	Finished	5/3/2007 9:58:08 PM	raja
35	2705020868	DBP-Method	Finished	5/3/2007 10:23:32 PM	raja
36	2705020869	DBP-Method	Finished	5/3/2007 10:48:55 PM	raja
37	2705020778	DBP-Method	Finished	5/3/2007 11:14:19 PM	raja
38	2705010140_1/1000	DBP-Method	Finished	5/3/2007 11:39:43 PM	raja
39	2705010702_1/50-DNR	DBP-Method	Finished	5/4/2007 12:05:07 AM	raja
40	2705010703_1/100	DBP-Method	Finished	5/4/2007 12:30:31 AM	raja
41	HCV	DBP-Method	Finished	5/4/2007 12:55:55 AM	raja
42	CCB	DBP-Method	Finished	5/4/2007 1:21:19 AM	raja

Sequence: 050307-DBP-IC12
Operator: raja

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Printed: 5/7/2007 6:16:04 PM

Title:
Datasource: IC-SERVER_local
Location: IC12\2007MAY
Timebase: IC12
#Samples: 76

Created: 5/2/2007 1:10:43 PM by raja
Last Update: 5/4/2007 12:07:15 PM by raja

No.	Name	Comment	Dil. Factor	Sample ID	Type	Program
43	MCV		1.0000		Unknown	IC12 test Program
44	CCB		1.0000		Unknown	IC12 test Program
45	MRLCHK		1.0000		Unknown	IC12 test Program
46	MBLK		1.0000		Unknown	IC12 test Program
47	LCS1		1.0000		Unknown	IC12 test Program
48	LCS2		1.0000		Unknown	IC12 test Program
49	2705020877	CLO2/CLO3	1.0000		Unknown	IC12 test Program
50	2705020877MS		1.0000		Unknown	IC12 test Program
51	2705020877MSD		1.0000		Unknown	IC12 test Program
52	2705010709_1/10	CLO39056	10.0000		Unknown	IC12 test Program
53	2705010712_1/10-DNR	CLO39056	10.0000		Unknown	IC12 test Program
54	2705010716_1/1000	CLO39056	1000.0000		Unknown	IC12 test Program
55	2705010717_1/10-DNR	CLO39056	10.0000		Unknown	IC12 test Program
56	2705020800_1/100	CLO39056	100.0000		Unknown	IC12 test Program
57	2705020801_1/100	CLO39056	100.0000		Unknown	IC12 test Program
58	2705020813_1/10-DNR	CLO39056	10.0000		Unknown	IC12 test Program
59	2705020860_1/10000	CLO39056	10000.0000		Unknown	IC12 test Program
60	2705020862_1/1000	CLO39056	1000.0000		Unknown	IC12 test Program
61	MCV		1.0000		Unknown	IC12 test Program
62	CCB		1.0000		Unknown	IC12 test Program
63	2705020864_1/500	CLO39056	500.0000		Unknown	IC12 test Program
64	2705030182_1/10000	CLO39056	10000.0000		Unknown	IC12 test Program
65	2705030202	CLO2/CLO3	1.0000		Unknown	IC12 test Program
66	2705030202MS		1.0000		Unknown	IC12 test Program
67	2705030202MSD		1.0000		Unknown	IC12 test Program
68	2705030087	CLO2	1.0000		Unknown	IC12 test Program
69	2705030088	CLO2	1.0000		Unknown	IC12 test Program
70	2705030089	CLO2	1.0000		Unknown	IC12 test Program
71	2705030090	CLO2	1.0000		Unknown	IC12 test Program
72	2705030103	CLO2	1.0000		Unknown	IC12 test Program
73	2705030105	CLO2	1.0000		Unknown	IC12 test Program
74	2705030106	CLO2	1.0000		Unknown	IC12 test Program
75	HCV		1.0000		Unknown	IC12 test Program
76	CCB		1.0000		Unknown	IC12 test Program

Sequence: 050307-DBP-IC12
Operator: raja

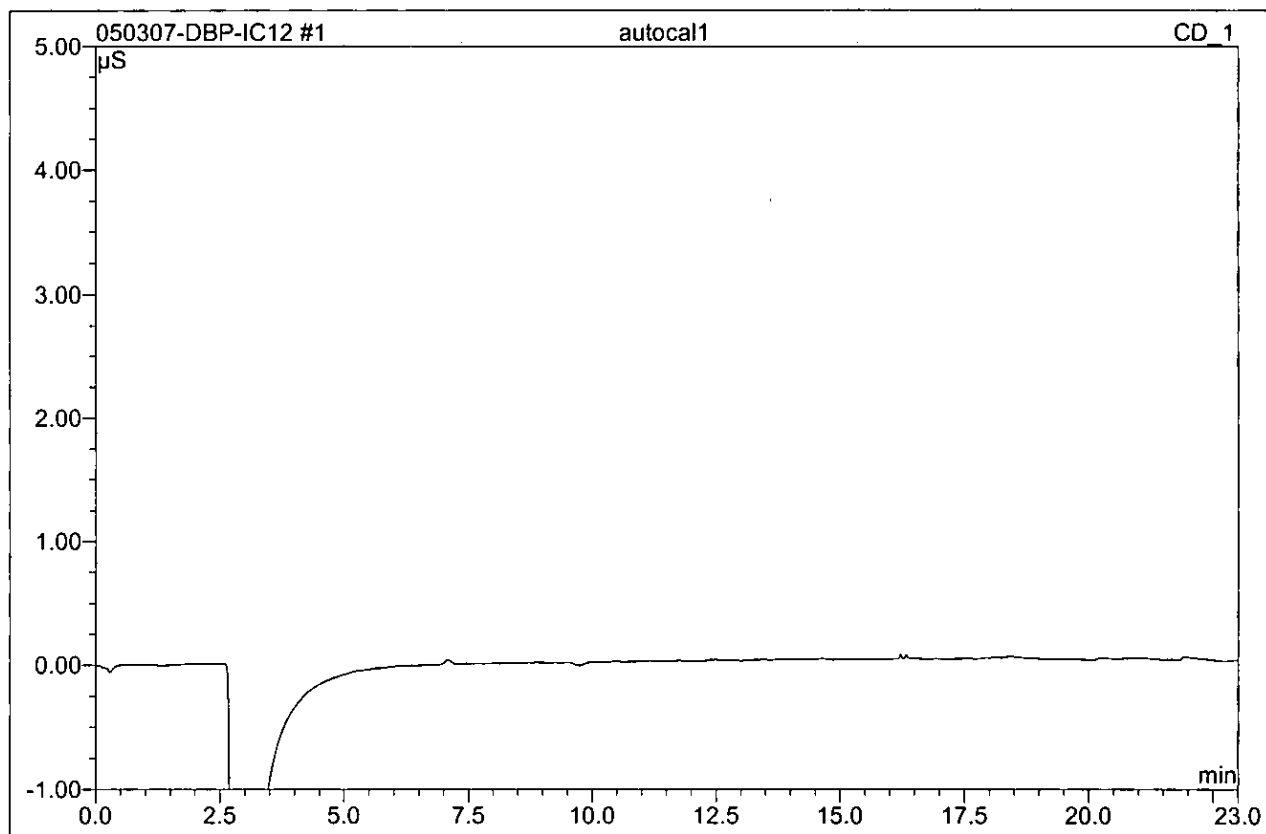
Page 4 of 4
Printed: 5/7/2007 6:16:04 PM

Title:
Datasource: IC-SERVER_local
Location: IC12\2007MAY
Timebase: IC12
#Samples: 76

Created: 5/2/2007 1:10:43 PM by raja
Last Update: 5/4/2007 12:07:15 PM by raja

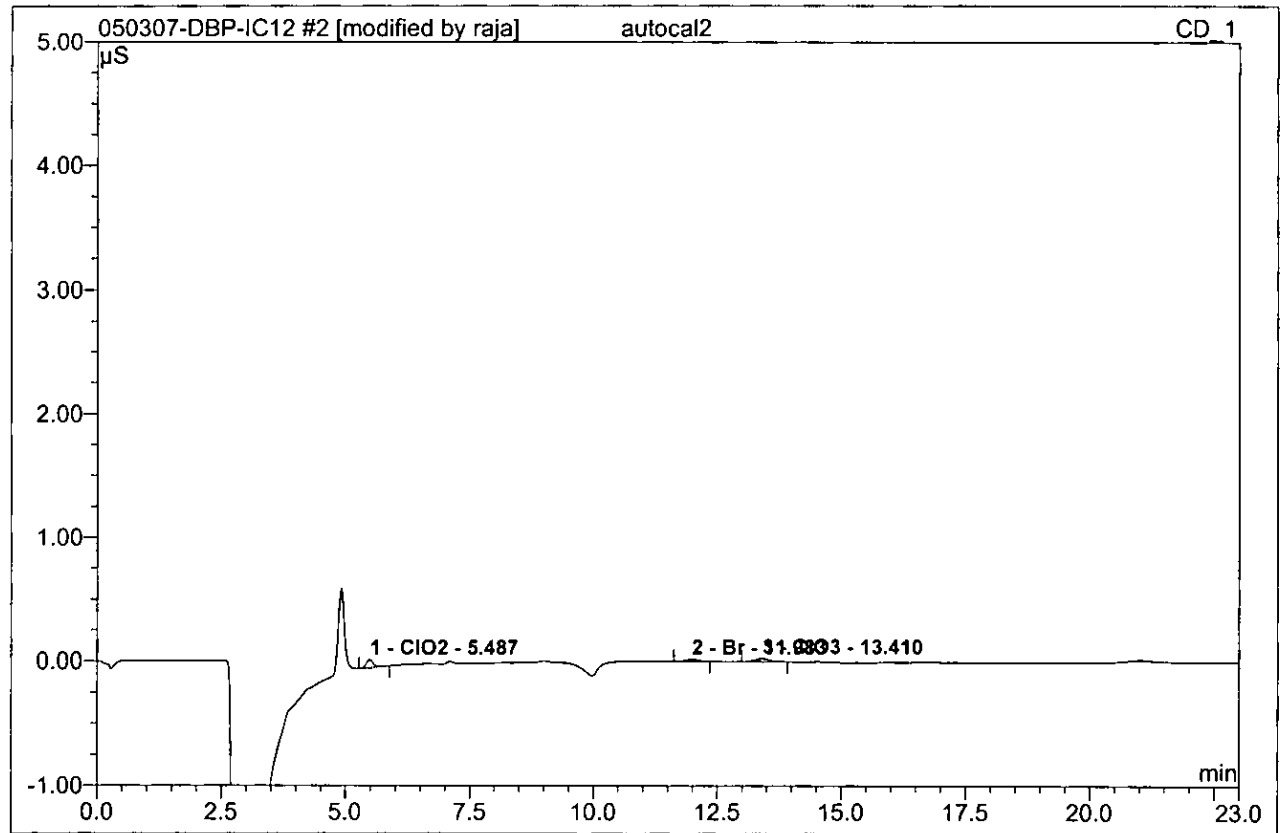
No.	Name	Method	Status	Inj. Date/Time	*Analyst
43	MCV	DBP-Method	Finished	5/4/2007 1:46:43 AM	raja
44	CCB	DBP-Method	Finished	5/4/2007 2:12:07 AM	raja
45	MRLCHK	DBP-Method	Finished	5/4/2007 2:37:31 AM	raja
46	MBLK	DBP-Method	Finished	5/4/2007 3:02:55 AM	raja
47	LCS1	DBP-Method	Finished	5/4/2007 3:28:19 AM	raja
48	LCS2	DBP-Method	Finished	5/4/2007 3:53:42 AM	raja
49	2705020877	DBP-Method	Finished	5/4/2007 4:19:06 AM	raja
50	2705020877MS	DBP-Method	Finished	5/4/2007 4:44:30 AM	raja
51	2705020877MSD	DBP-Method	Finished	5/4/2007 5:09:54 AM	raja
52	2705010709_1/10	DBP-Method	Finished	5/4/2007 5:35:18 AM	raja
53	2705010712_1/10-DNR	DBP-Method	Finished	5/4/2007 6:00:42 AM	raja
54	2705010716_1/1000	DBP-Method	Finished	5/4/2007 6:26:06 AM	raja
55	2705010717_1/10-DNR	DBP-Method	Finished	5/4/2007 6:51:30 AM	raja
56	2705020800_1/100	DBP-Method	Finished	5/4/2007 7:16:53 AM	raja
57	2705020801_1/100	DBP-Method	Finished	5/4/2007 7:42:17 AM	raja
58	2705020813_1/10-DNR	DBP-Method	Finished	5/4/2007 8:07:40 AM	raja
59	2705020860_1/10000	DBP-Method	Finished	5/4/2007 8:33:03 AM	raja
60	2705020862_1/1000	DBP-Method	Finished	5/4/2007 8:58:27 AM	raja
61	MCV	DBP-Method	Finished	5/4/2007 9:23:50 AM	raja
62	CCB	DBP-Method	Finished	5/4/2007 9:49:14 AM	raja
63	2705020864_1/500	DBP-Method	Finished	5/4/2007 10:14:37 AM	raja
64	2705030182_1/10000	DBP-Method	Finished	5/4/2007 10:40:01 AM	raja
65	2705030202	DBP-Method	Finished	5/4/2007 11:05:25 AM	raja
66	2705030202MS	DBP-Method	Finished	5/4/2007 11:30:48 AM	raja
67	2705030202MSD	DBP-Method	Finished	5/4/2007 11:56:12 AM	raja
68	2705030087	DBP-Method	Finished	5/4/2007 12:21:35 PM	raja
69	2705030088	DBP-Method	Finished	5/4/2007 12:46:59 PM	raja
70	2705030089	DBP-Method	Finished	5/4/2007 1:12:23 PM	raja
71	2705030090	DBP-Method	Finished	5/4/2007 1:37:46 PM	raja
72	2705030103	DBP-Method	Finished	5/4/2007 2:03:09 PM	raja
73	2705030105	DBP-Method	Finished	5/4/2007 2:28:33 PM	raja
74	2705030106	DBP-Method	Finished	5/4/2007 2:53:56 PM	raja
75	HCV	DBP-Method	Finished	5/4/2007 3:23:03 PM	raja
76	CCB	DBP-Method	Finished	5/4/2007 3:48:27 PM	raja

1 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:	5/1/2007 10:54	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



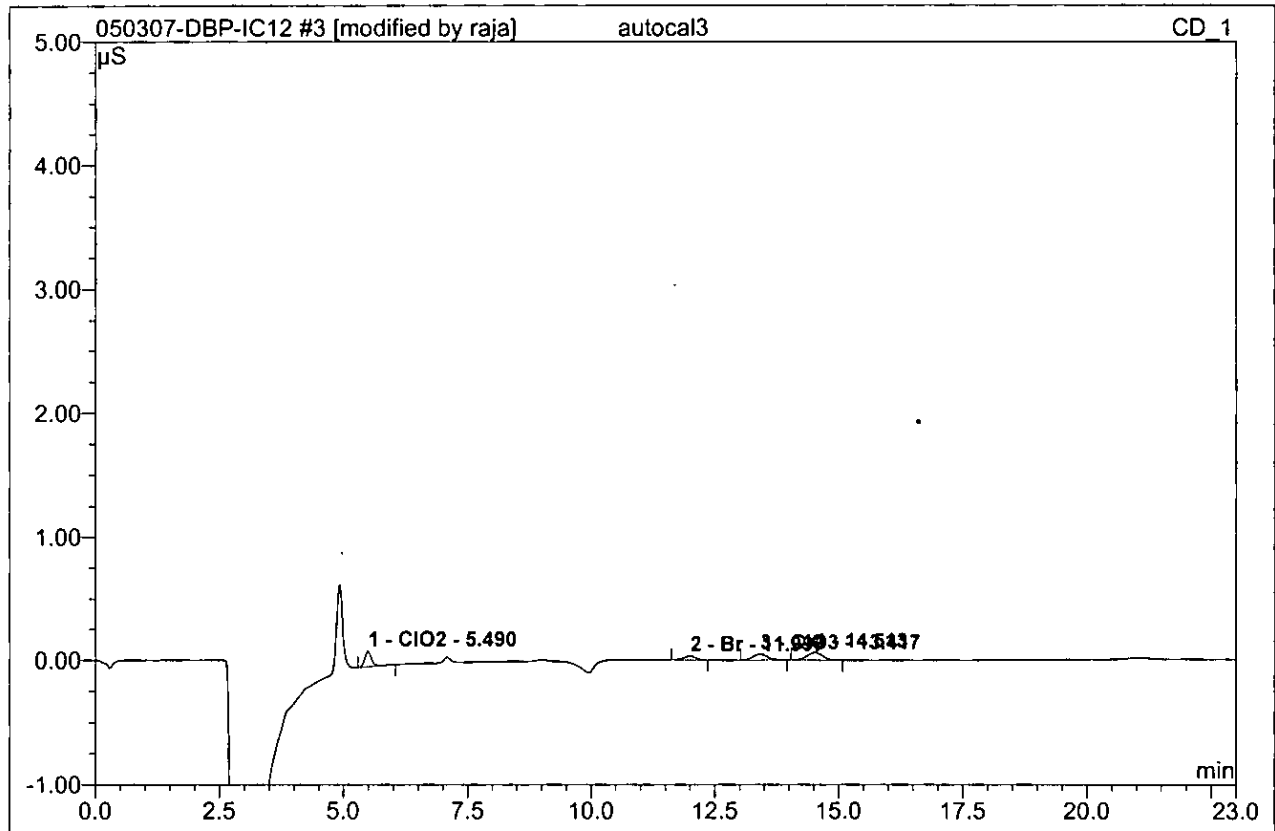
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

2 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:	5/1/2007 11:19	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



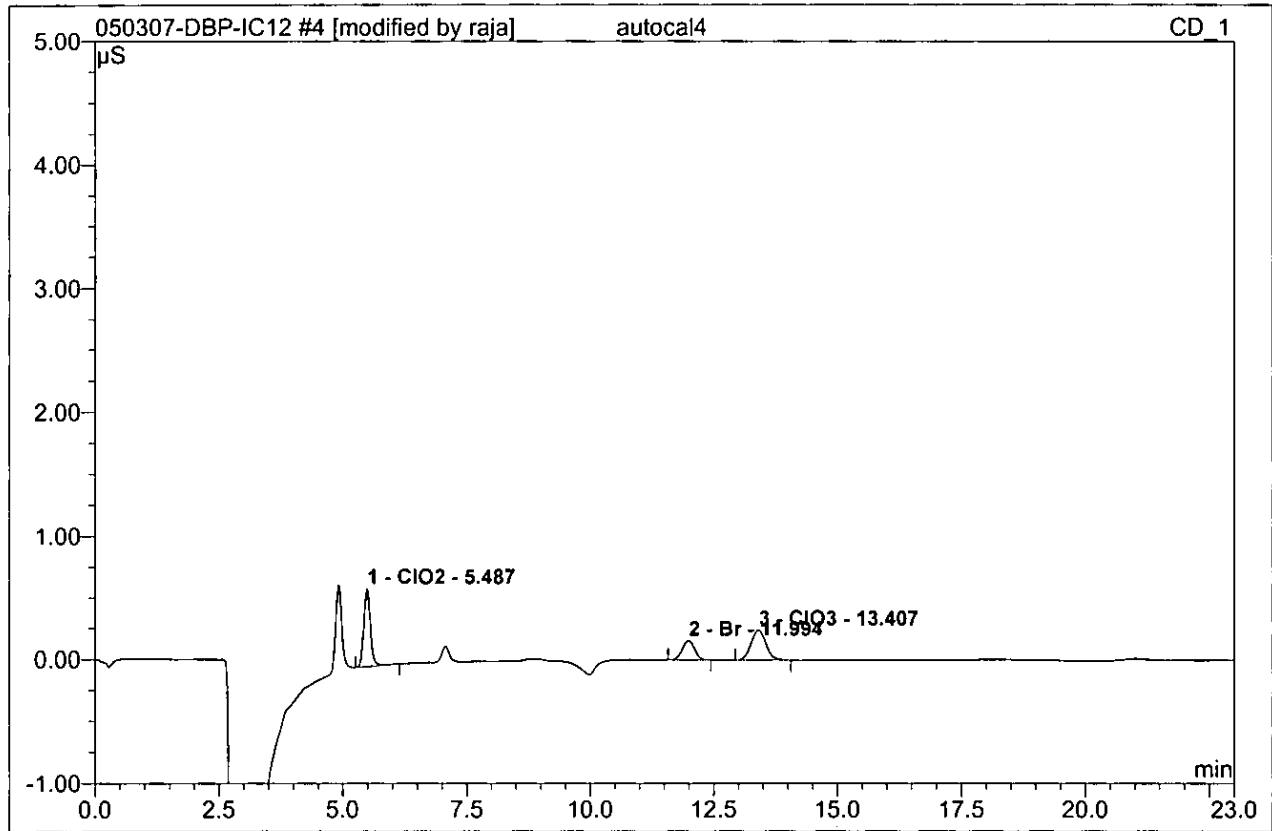
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.49	ClO2	0.064	0.010	42.54	9.926	BMB
2	11.98	Br	0.016	0.005	20.78	5.721	BMB*
3	13.41	ClO3	0.025	0.009	36.68	10.133	BMB*
Total:			0.105	0.024	100.00	25.780	

3 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:	5/1/2007 11:45	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



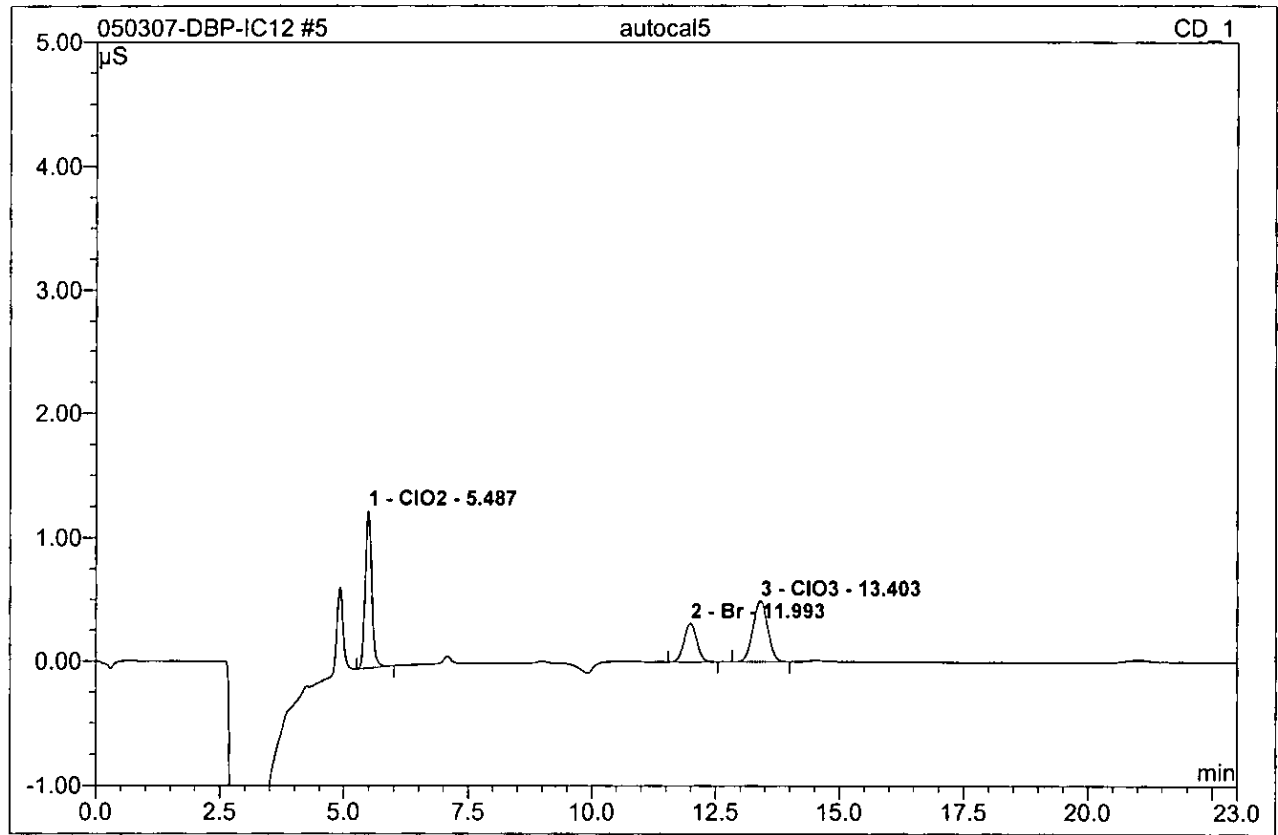
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.49	ClO2	0.126	0.020	29.66	20.367	BMB
2	12.00	Br	0.031	0.009	13.08	9.977	BMB*
3	13.42	ClO3	0.048	0.017	24.43	19.409	BMB*
4	14.51	n.a.	0.062	0.022	32.84	n.a.	BMB*
Total:			0.267	0.068	100.00	49.753	

4 autocal4			
RAJA060520-5			
Sample Name:	autocal4	Injection Volume:	1000.0
Vial Number:	337	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:	5/1/2007 12:10	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



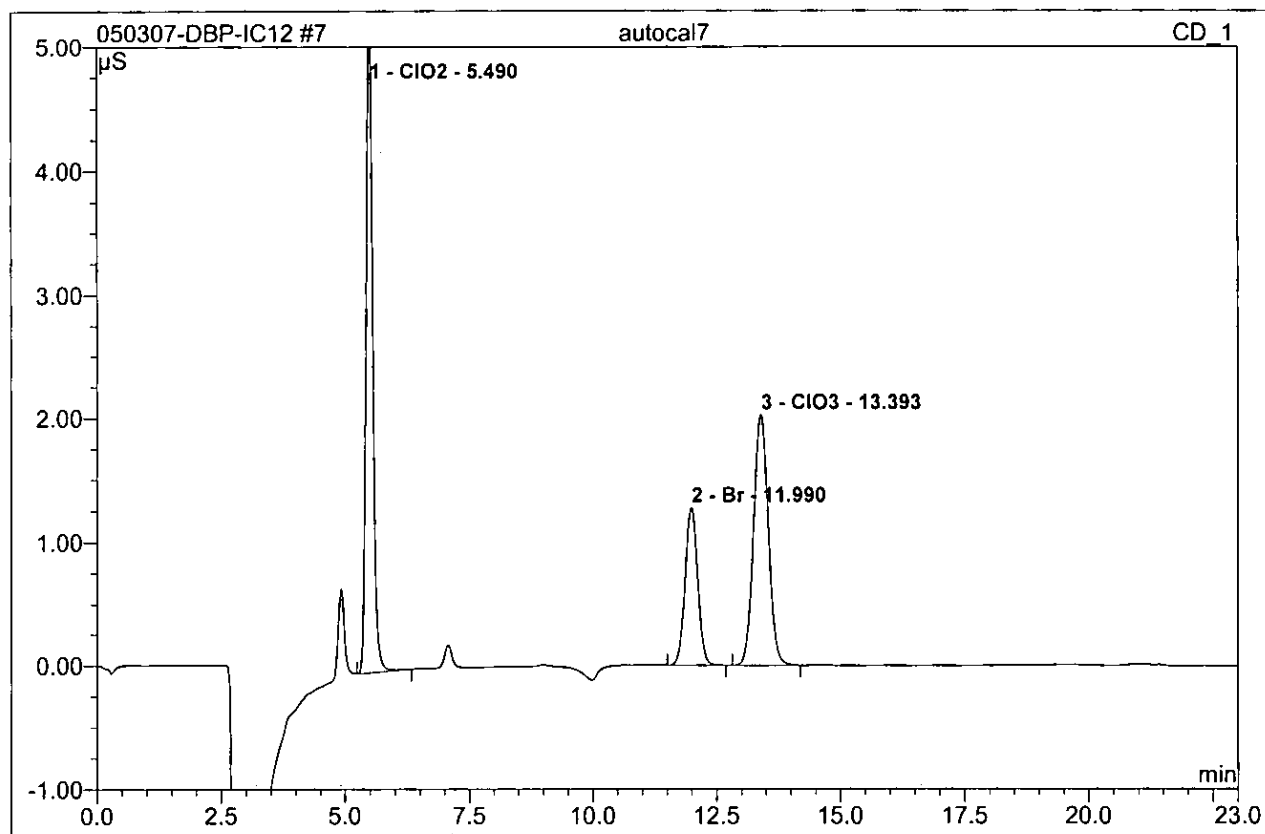
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.49	ClO2	0.628	0.097	42.52	99.774	BMB
2	11.99	Br	0.155	0.045	19.79	49.048	BMB*
3	13.41	ClO3	0.245	0.086	37.69	100.872	BMB*
Total:			1.027	0.228	100.00	249.694	

5 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:	5/1/2007 12:36	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



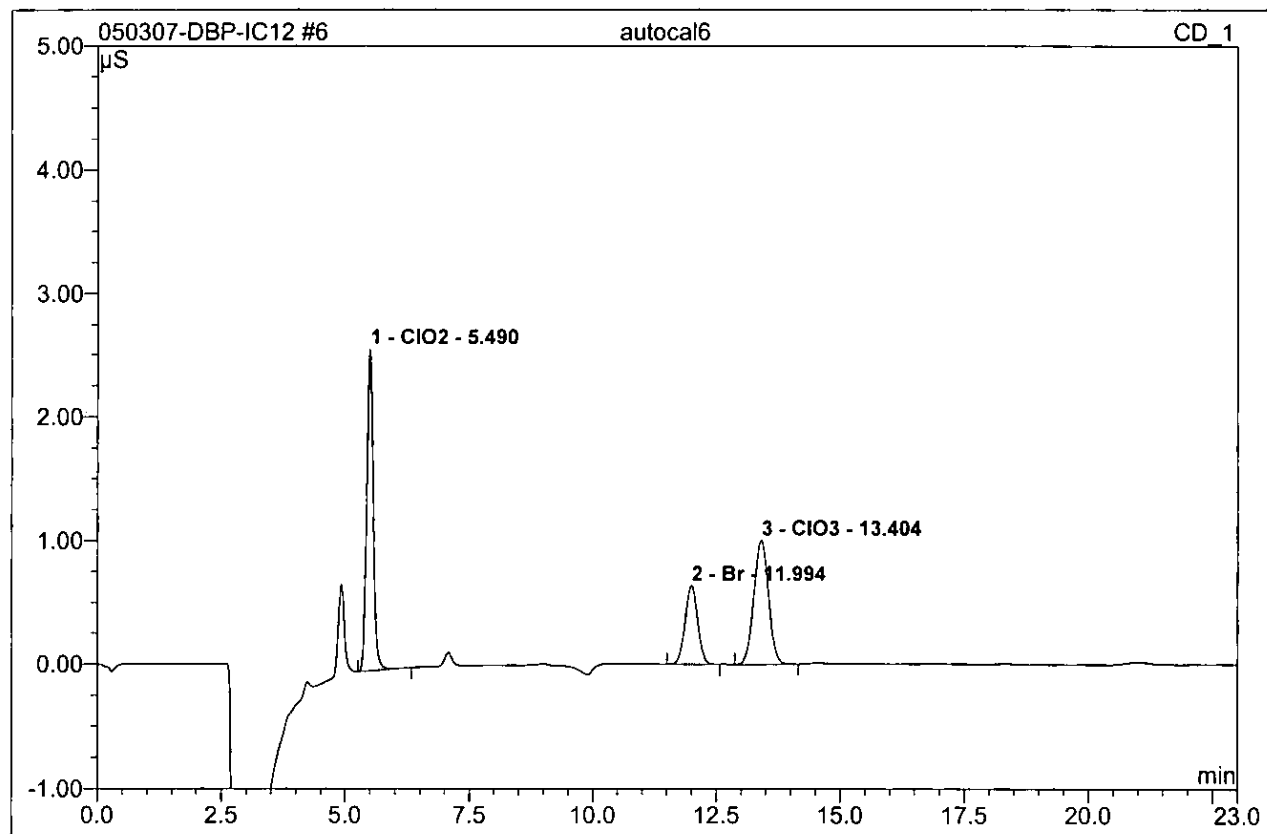
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.49	ClO2	1.273	0.195	42.58	199.693	BMB
2	11.99	Br	0.314	0.092	20.19	99.881	BMB
3	13.40	ClO3	0.495	0.171	37.23	199.588	BMB
Total:			2.082	0.458	100.00	499.163	

7 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:	5/1/2007 13:26	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



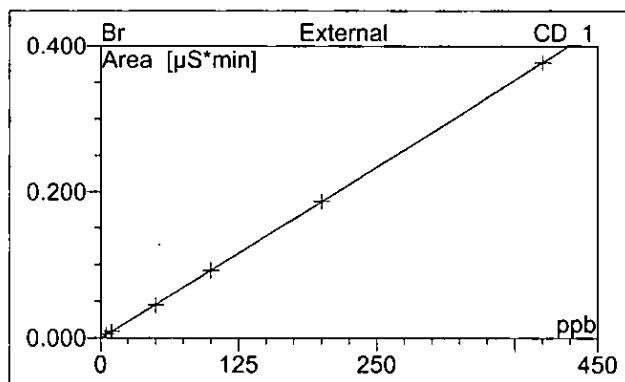
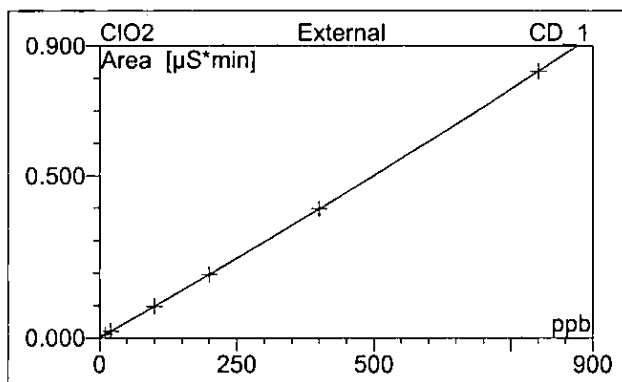
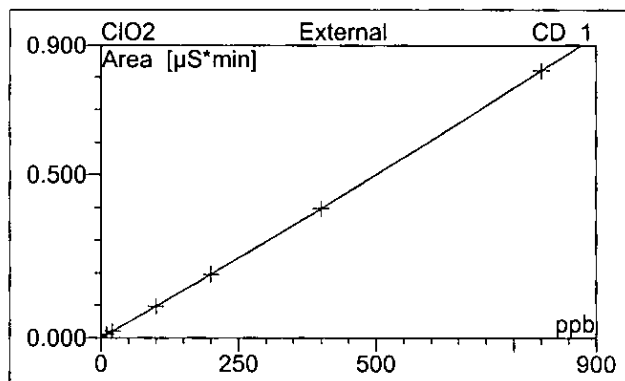
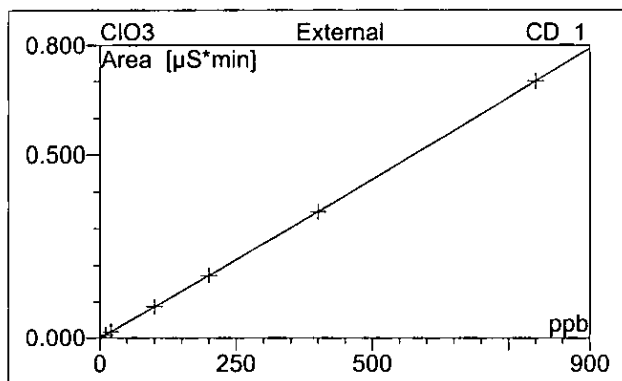
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.49	ClO2	5.423	0.820	43.22	799.953	BMB
2	11.99	Br	1.278	0.377	19.86	399.907	BMB
3	13.39	ClO3	2.032	0.701	36.92	800.017	BMB
Total:			8.733	1.898	100.00	1999.877	

6 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:	5/1/2007 13:01	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



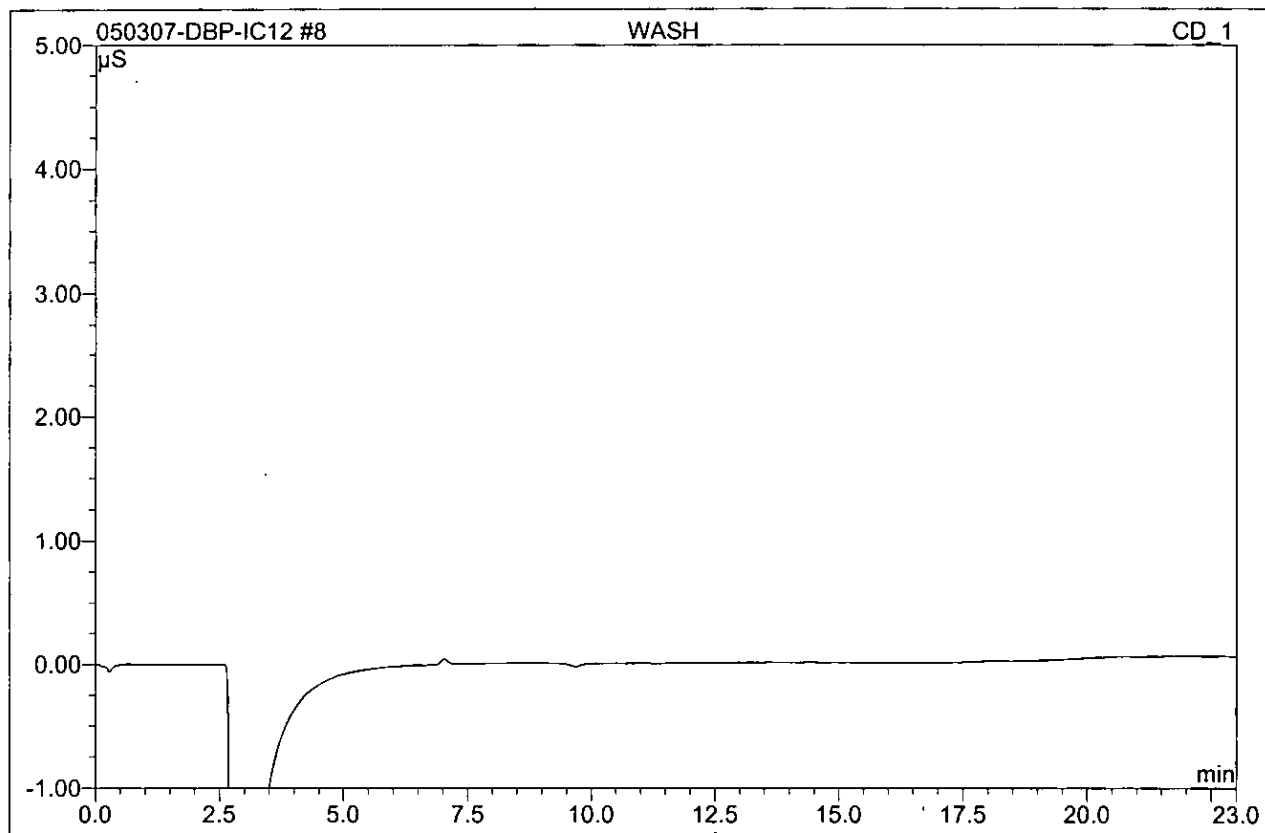
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.49	ClO2	2.606	0.397	42.77	400.286	BMB
2	11.99	Br	0.634	0.187	20.13	200.466	BMB
3	13.40	ClO3	1.002	0.345	37.10	399.981	BMB
Total:			4.242	0.929	100.00	1000.733	

7 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: 5/1/2007 13:26	Sample Weight: 1.0000
Run Time (min): 23.00	Sample Amount: 1.0000



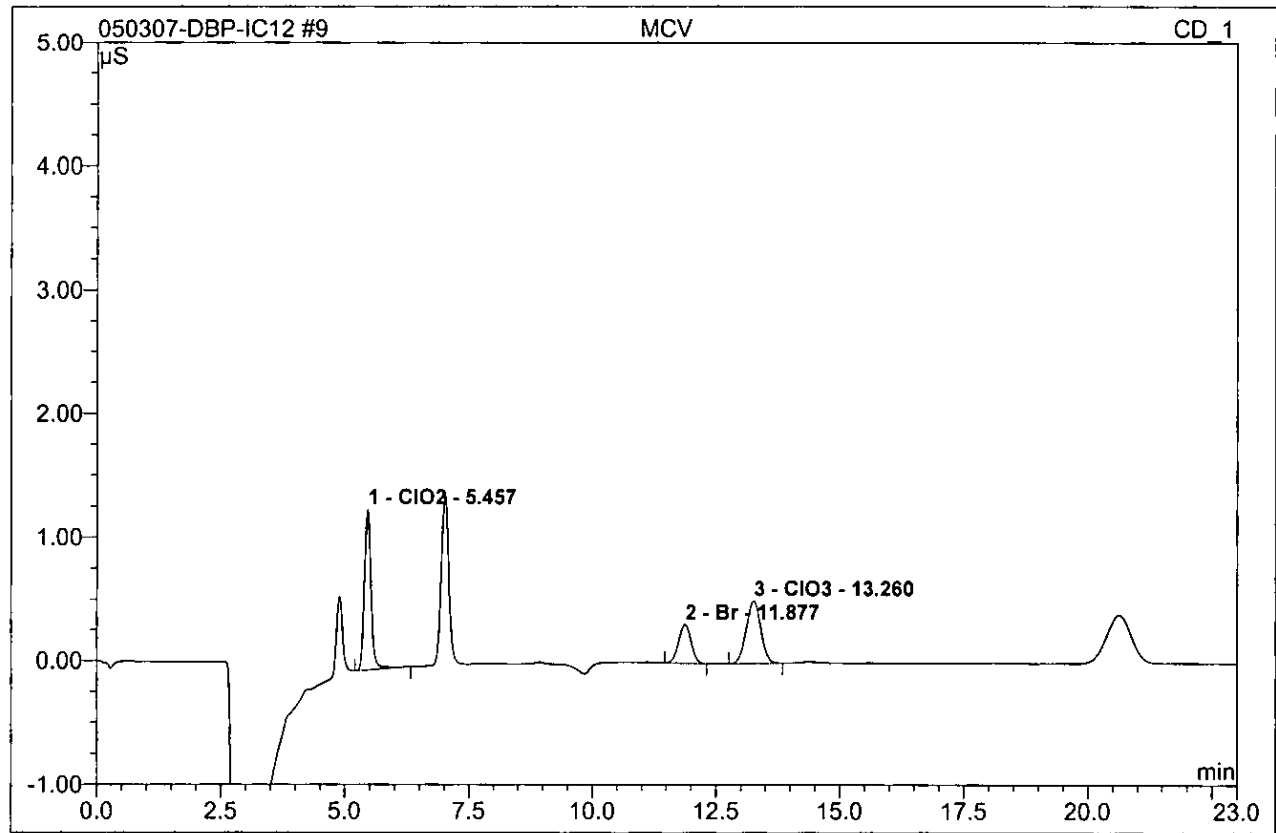
No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	5.49	ClO2	QOff	6	99.9837	0.0005	0.0010	0.0000
2	11.99	Br	QOff	6	99.9979	-0.0004	0.0009	0.0000
3	13.39	ClO3	QOff	6	99.9959	0.0000	0.0008	0.0000
Average:					99.9925	0.0000	0.0009	0.0000

8 WASH			
Sample Name:	WASH	Injection Volume:	1000.0
Vial Number:	335	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:	5/3/2007 10:57	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



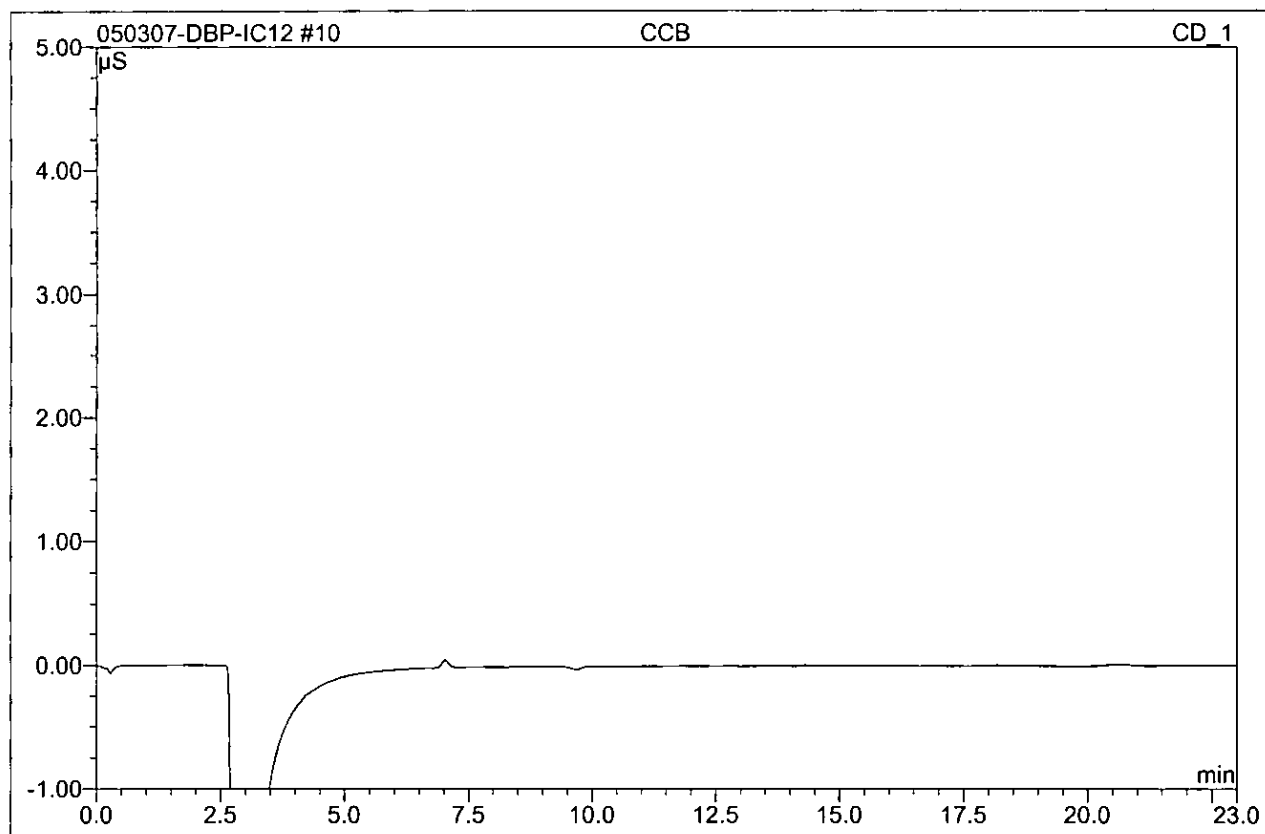
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

9 MCV			
Sample Name:	MCV	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:	5/3/2007 11:23	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



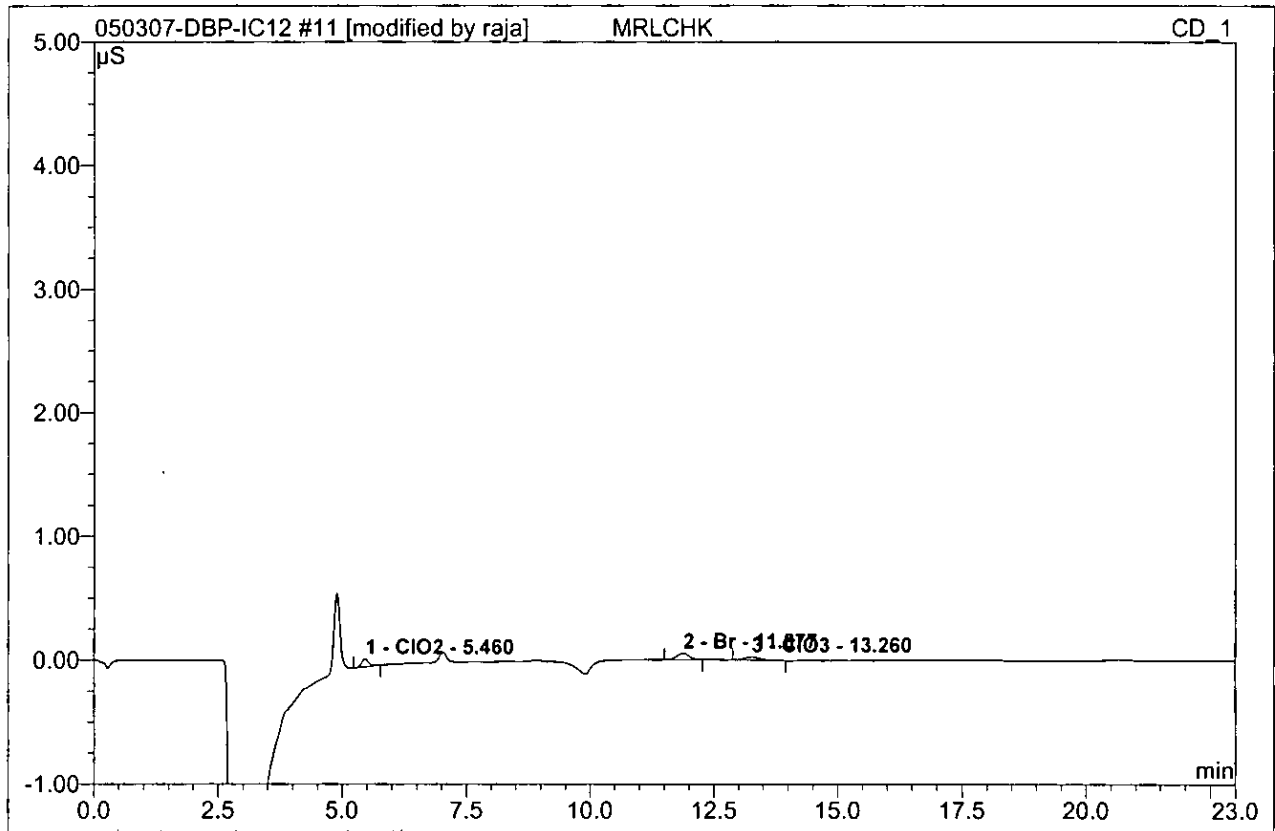
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.46	ClO2	1.300	0.204	43.31	208.386	BMB
2	11.88	Br	0.319	0.093	19.77	100.389	BMB
3	13.26	ClO3	0.508	0.174	36.92	203.111	BMB
Total:			2.127	0.470	100.00	511.886	

10 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:	5/3/2007 11:48	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



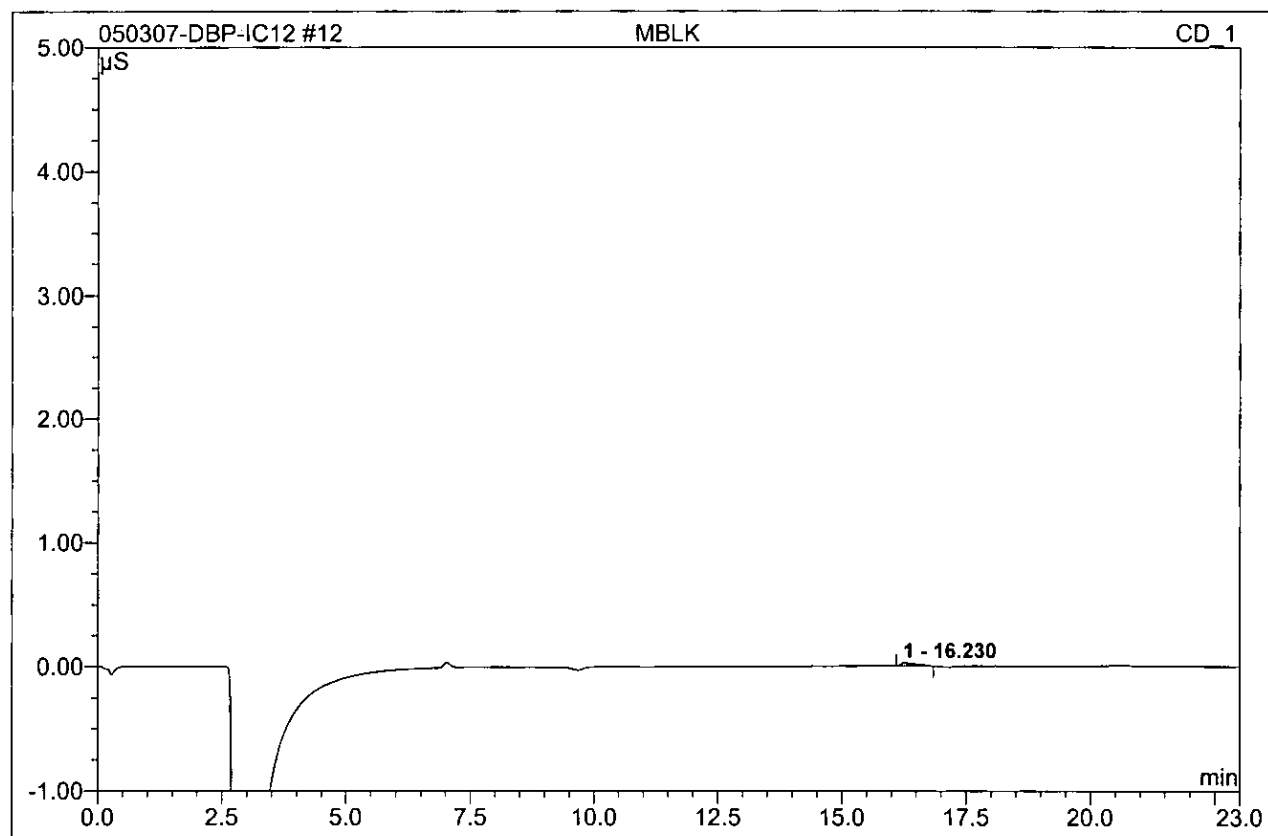
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

11 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:	5/3/2007 12:13	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



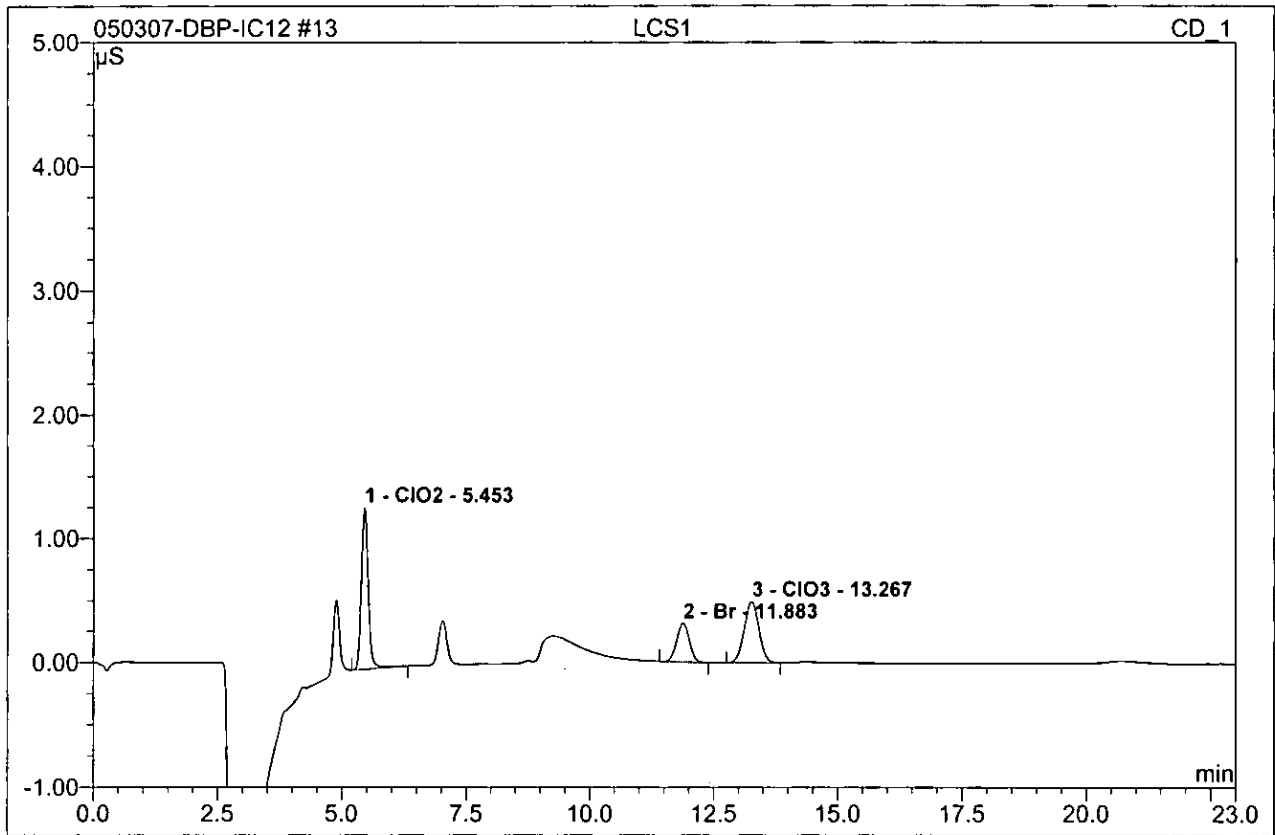
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.46	ClO2	0.065	0.010	29.08	10.130	BMB*
2	11.88	Br	0.053	0.015	43.87	17.065	BMB
3	13.26	ClO3	0.025	0.009	27.05	11.150	BMB
Total:			0.144	0.035	100.00	38.344	

12 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:	5/3/2007 12:39	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



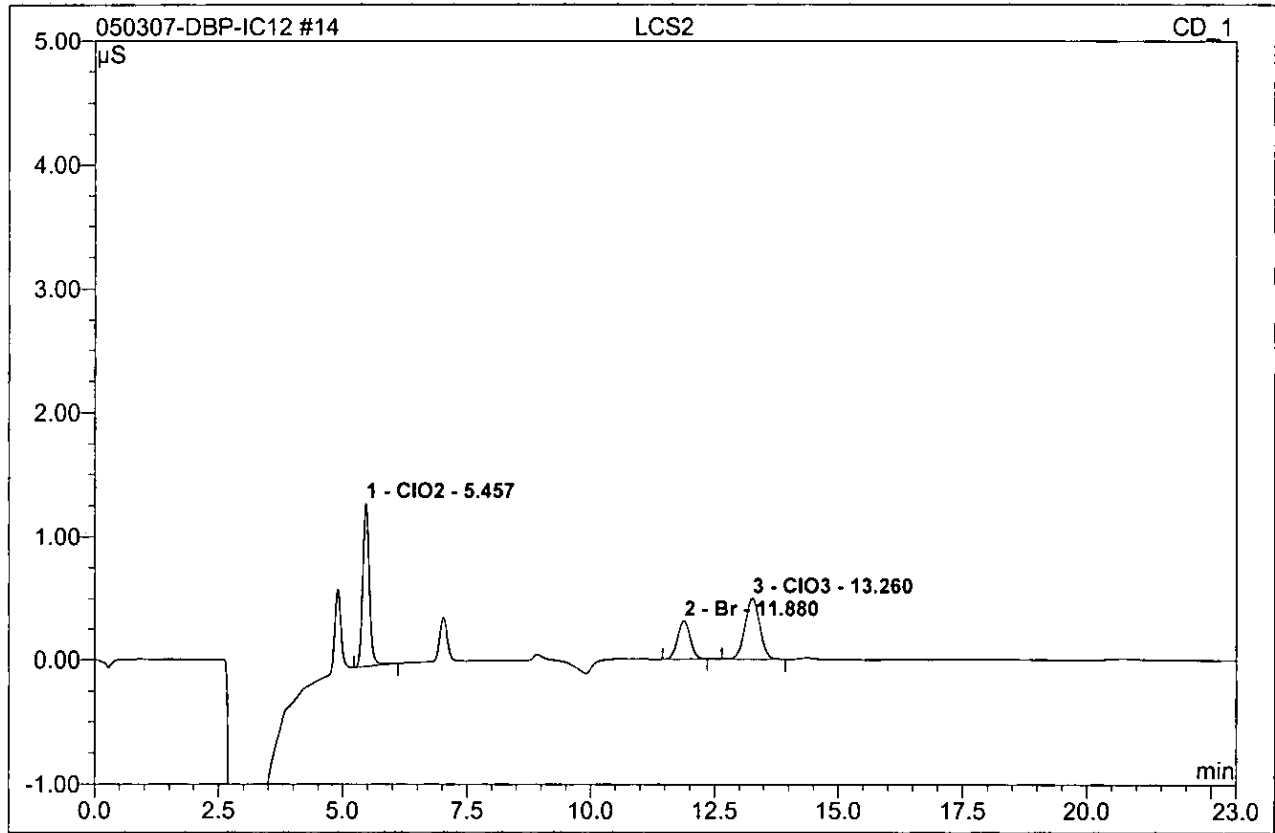
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	16.23	n.a.	0.025	0.008	100.00	n.a.	BMB
Total:			0.025	0.008	100.00	0.000	

13 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:	5/3/2007 13:04	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



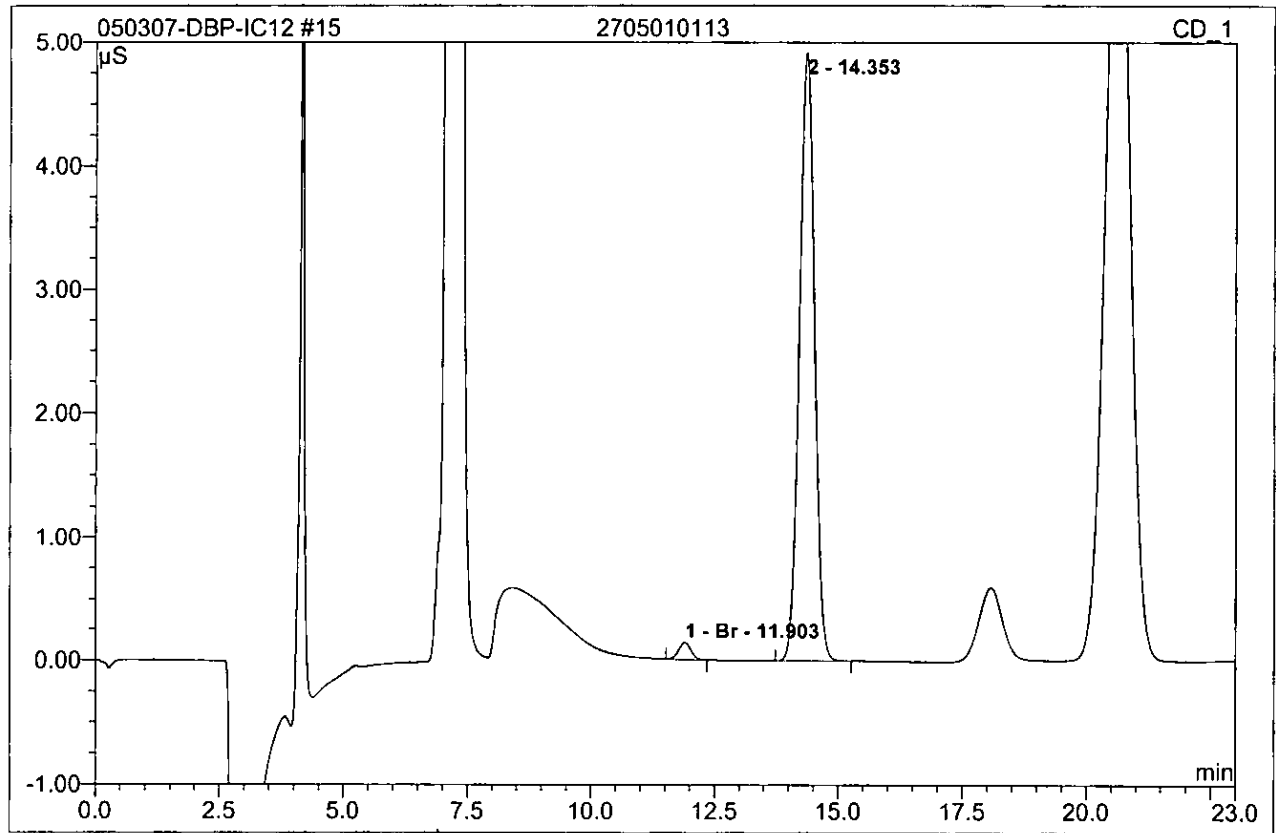
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.45	ClO2	1.305	0.207	44.07	211.431	BMB
2	11.88	Br	0.315	0.092	19.69	99.735	BMB
3	13.27	ClO3	0.495	0.170	36.24	198.917	BMB
Total:			2.115	0.469	100.00	510.082	

14 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:	5/3/2007 13:30	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



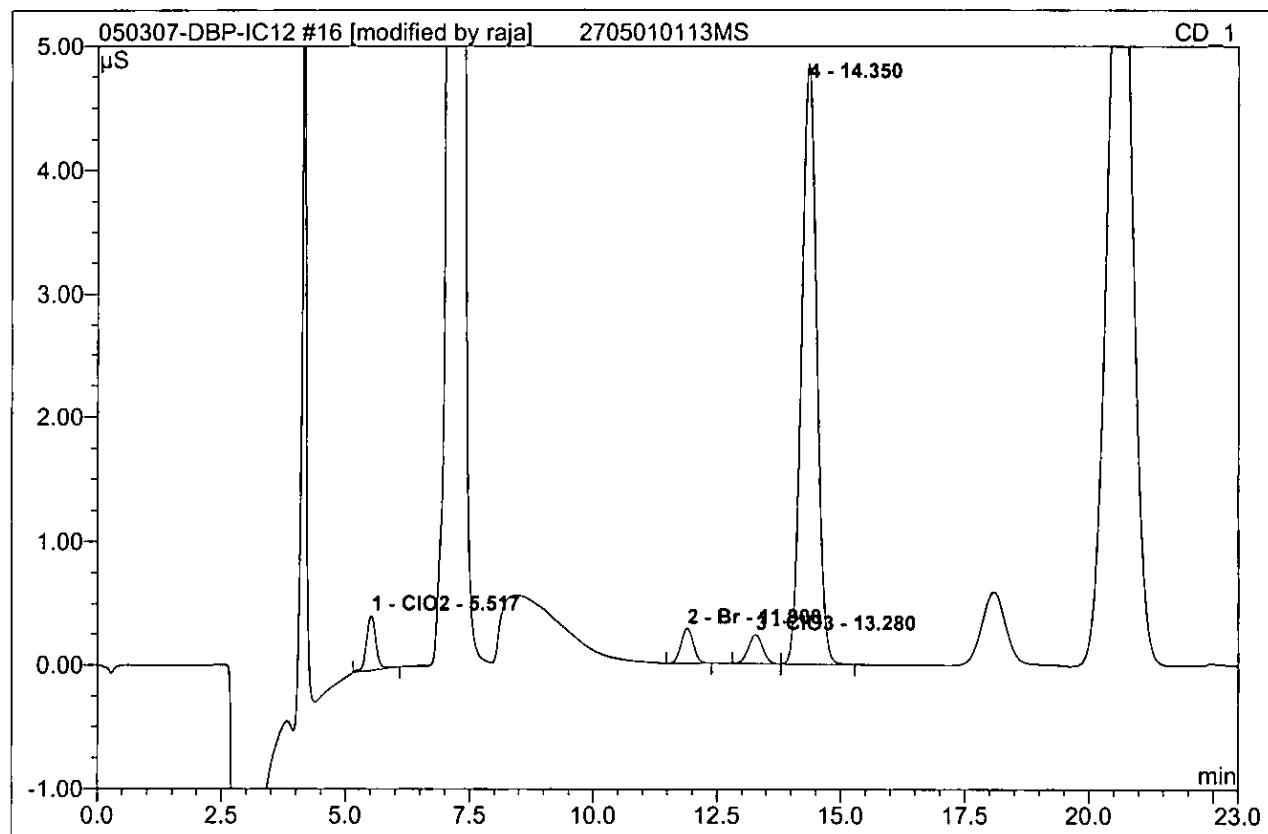
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.46	ClO2	1.324	0.203	43.42	208.126	BMB
2	11.88	Br	0.315	0.092	19.65	99.437	BMB
3	13.26	ClO3	0.498	0.173	36.93	202.443	BMB
Total:			2.138	0.468	100.00	510.005	

15 2705010113			
CLO2			
Sample Name:	2705010113	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:	5/3/2007 13:55	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



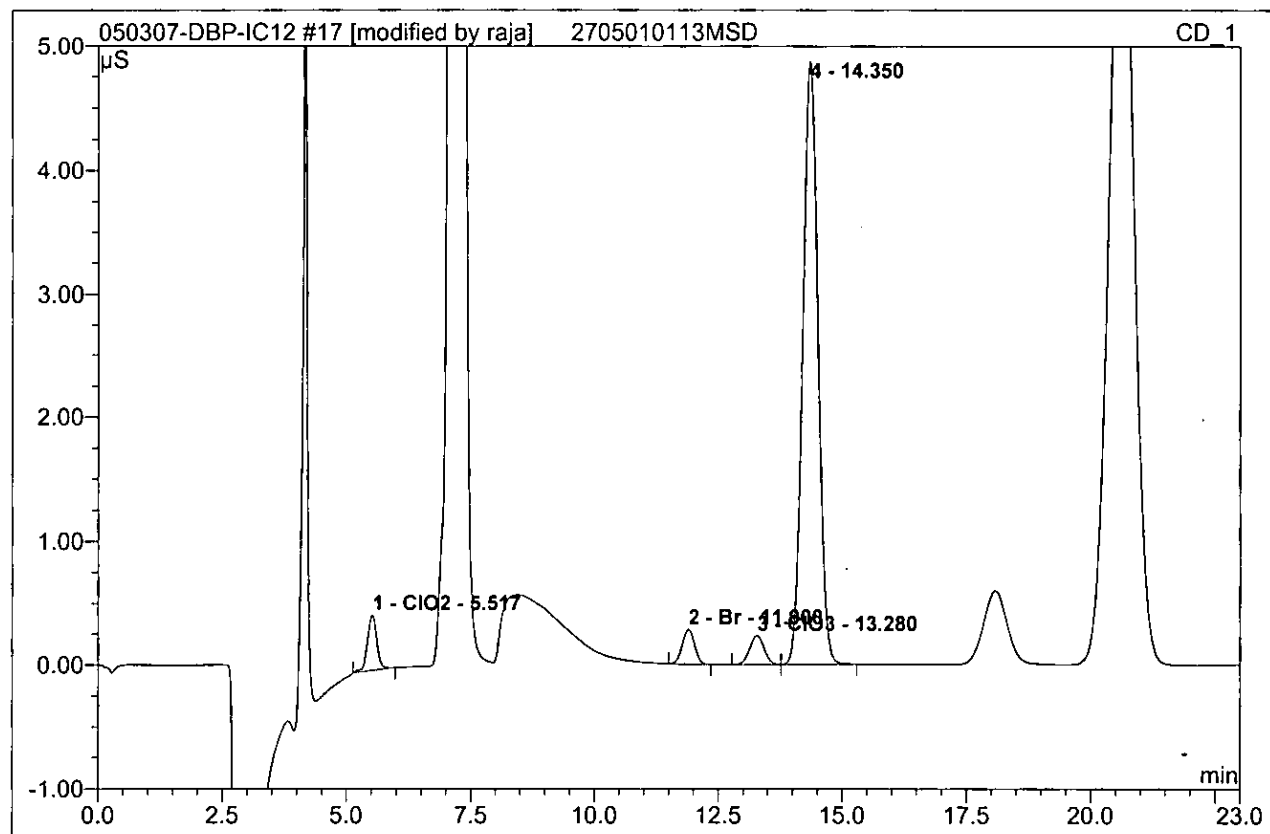
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	11.90	Br	0.135	0.039	2.17	42.159	BMB
2	14.35	n.a.	4.917	1.744	97.83	n.a.	BMB
Total:			5.052	1.783	100.00	42.159	

16 2705010113MS			
Sample Name:	2705010113MS	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:	5/3/2007 14:20	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



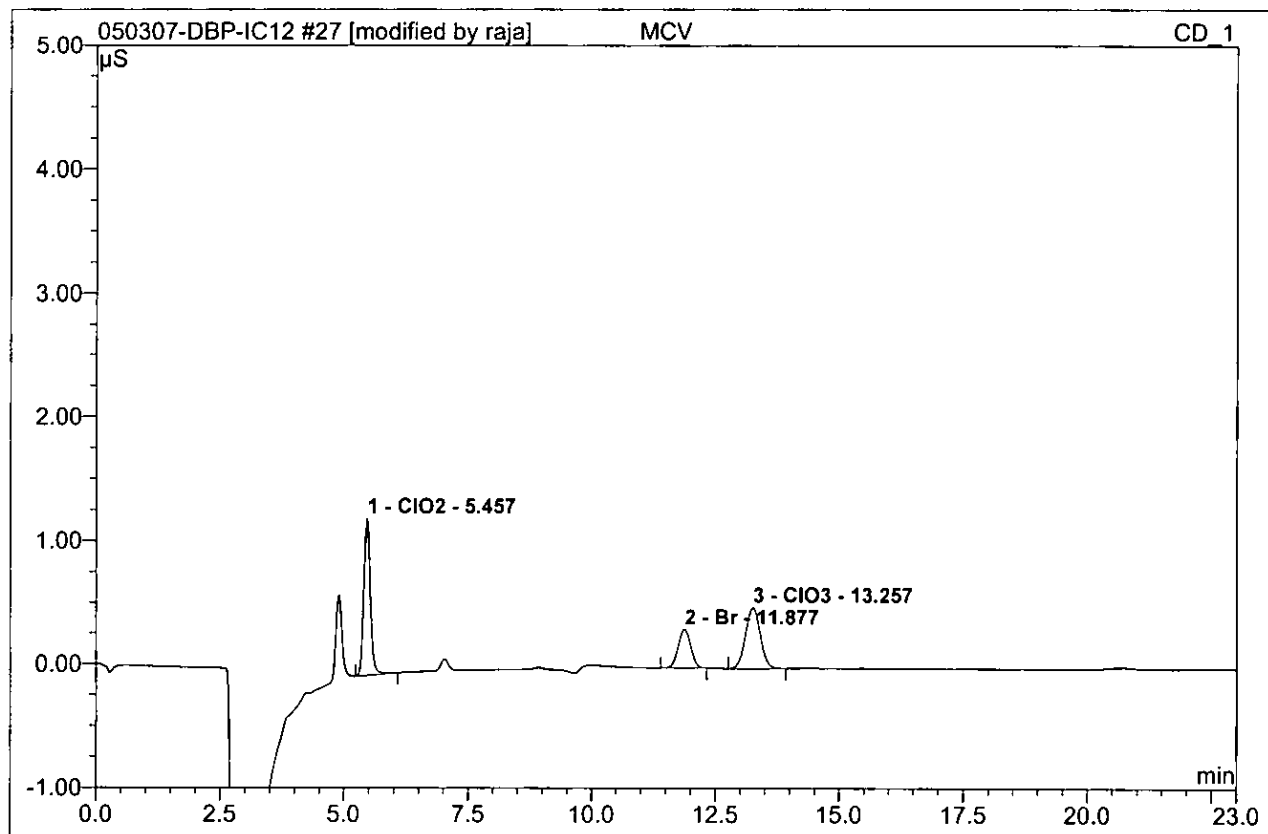
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.52	ClO2	0.445	0.097	4.91	100.148	BMB*
2	11.90	Br	0.285	0.082	4.16	88.942	BMB
3	13.28	ClO3	0.234	0.079	3.98	92.472	BMB
4	14.35	n.a.	4.842	1.721	86.95	n.a.	BMB
Total:			5.807	1.979	100.00	281.563	

17 2705010113MSD			
Sample Name:	2705010113MSD	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:	5/3/2007 14:46	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



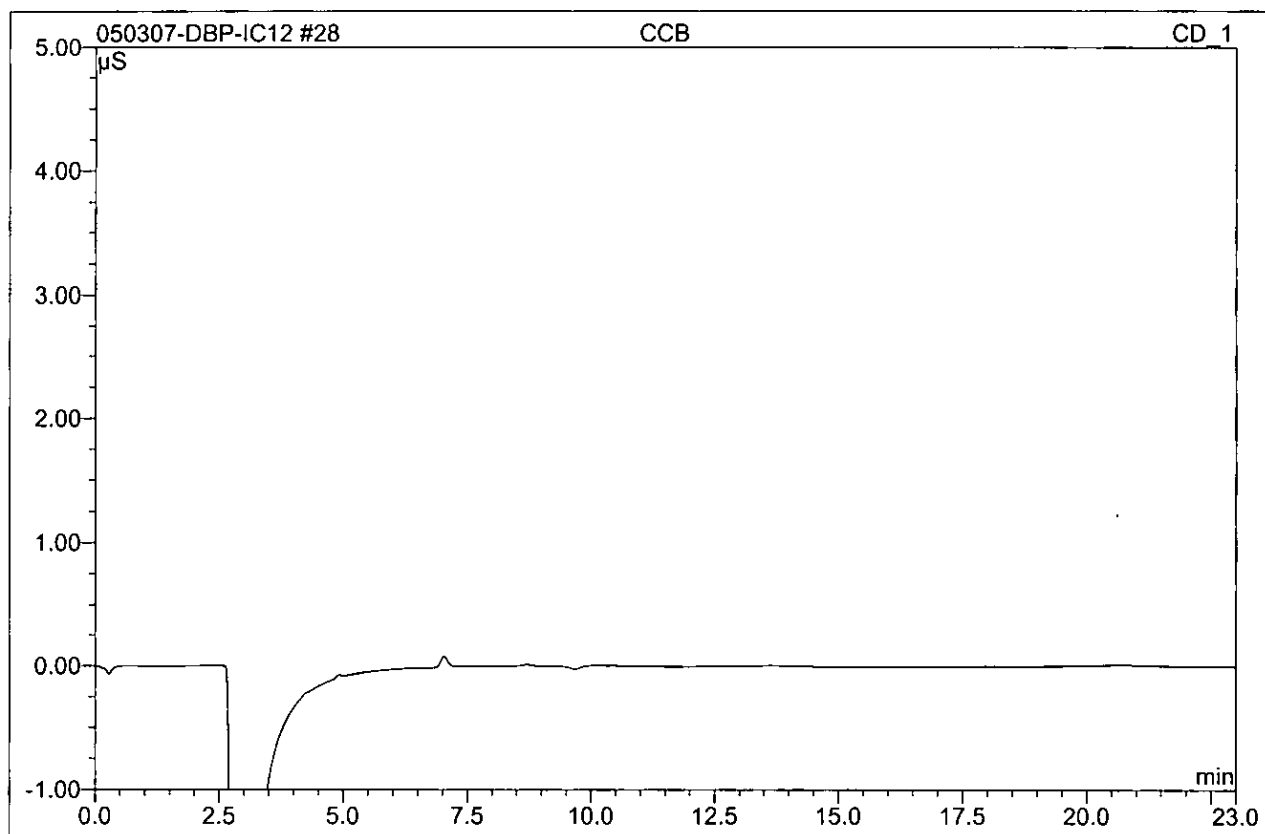
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.52	ClO2	0.450	0.099	4.97	101.854	BMB*
2	11.90	Br	0.284	0.081	4.09	87.933	BMB
3	13.28	ClO3	0.237	0.080	4.03	94.146	BM
4	14.35	n.a.	4.865	1.729	86.91	n.a.	MB
Total:			5.836	1.989	100.00	283.933	

27 MCV			
Sample Name:	MCV	Injection Volume:	1000.0
Vial Number:	586	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:	5/3/2007 19:00	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	5.46	ClO2	1.272	0.195	42.55	199.972	BMB*
2	11.88	Br	0.314	0.092	20.10	99.667	BMB
3	13.26	ClO3	0.496	0.171	37.34	200.550	BMB
Total:			2.081	0.459	100.00	500.189	

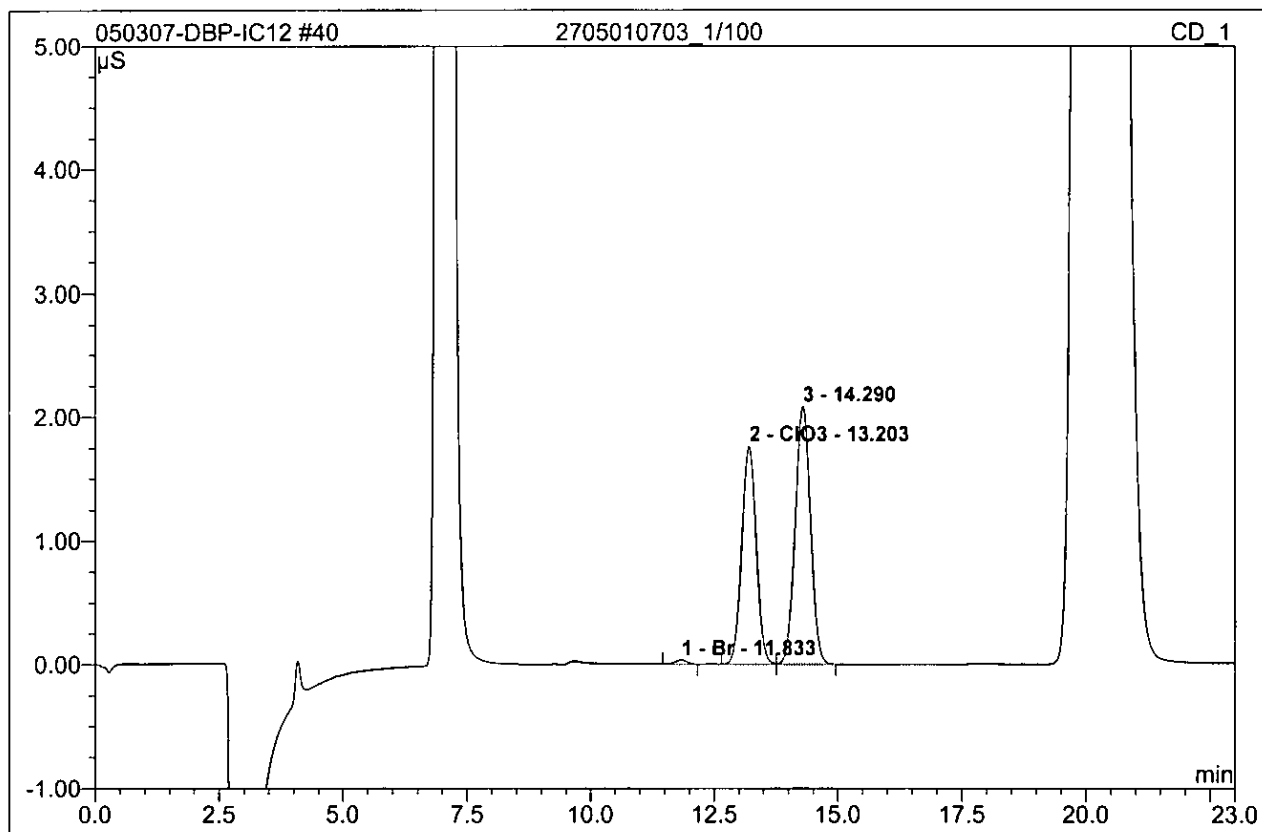
28 CCB			
<i>Sample Name:</i>	CCB	<i>Injection Volume:</i>	1000.0
<i>Vial Number:</i>	586	<i>Channel:</i>	CD_1
<i>Sample Type:</i>	unknown	<i>Wavelength:</i>	n.a.
<i>Control Program:</i>	IC12 test Program	<i>Bandwidth:</i>	n.a.
<i>Quantif. Method:</i>	DBP-Method	<i>Dilution Factor:</i>	1.0000
<i>Recording Time:</i>	5/3/2007 19:25	<i>Sample Weight:</i>	1.0000
<i>Run Time (min):</i>	23.00	<i>Sample Amount:</i>	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	

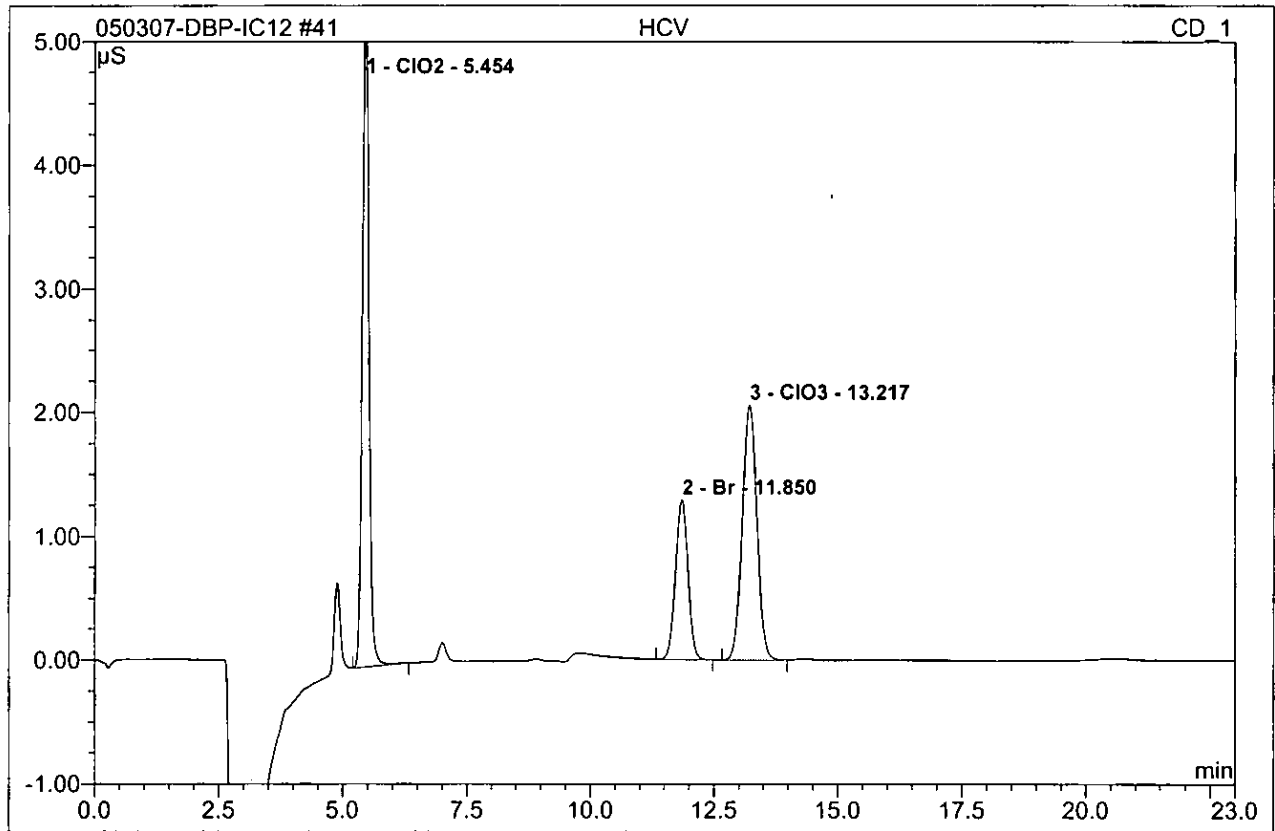
40 2705010703_1/100**CLO39056**

Sample Name:	2705010703_1/100	Injection Volume:	1000.0
Vial Number:	677	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	100.0000
Recording Time:	5/4/2007 0:30	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	11.83	Br	0.033	0.009	0.67	1019.153	BMB
2	13.20	ClO3	1.763	0.599	44.13	68728.662	BM
3	14.29	n.a.	2.081	0.750	55.21	n.a.	MB
Total:			3.877	1.358	100.00	69747.815	

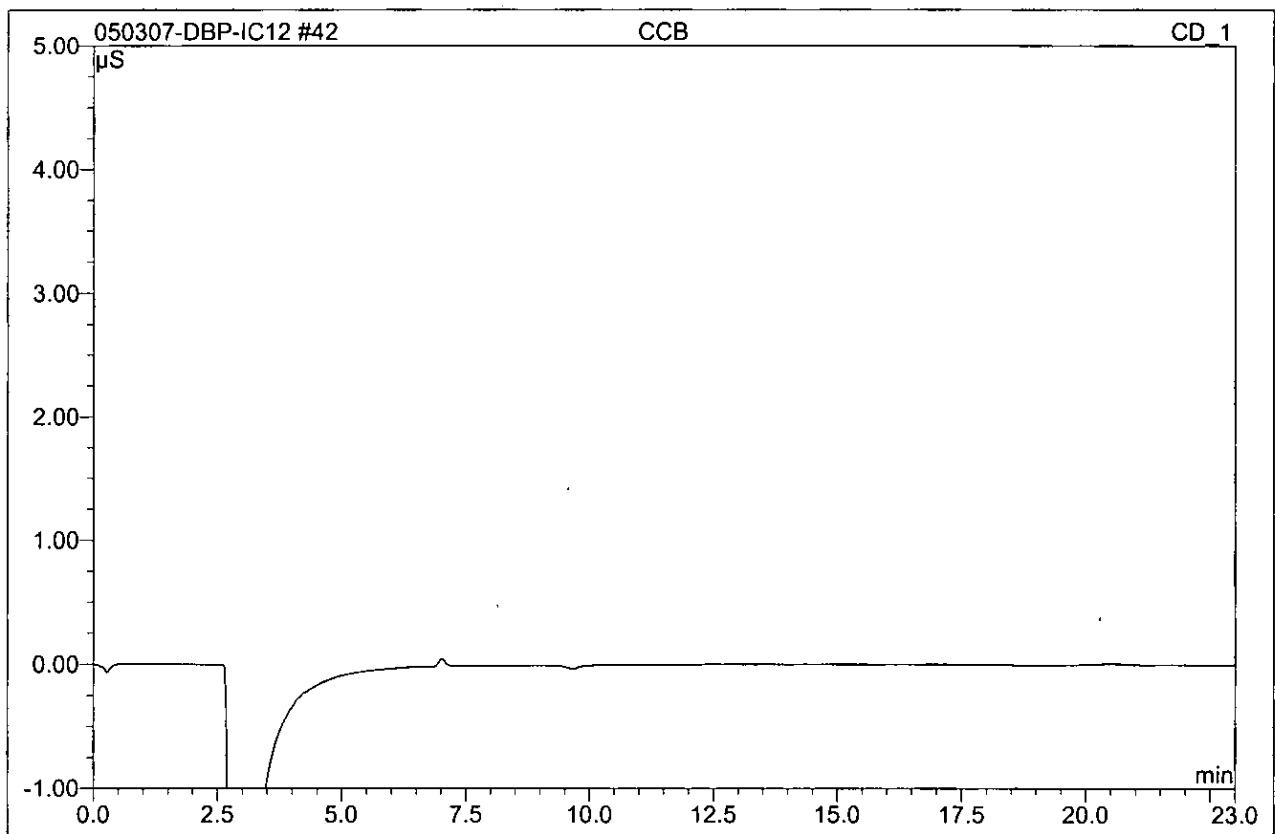
41 HCV			
Sample Name:	HCV	Injection Volume:	1000.0
Vial Number:	676	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	5/4/2007 0:55	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.45	ClO2	5.483	0.827	43.34	806.258	BMB
2	11.85	Br	1.288	0.377	19.76	400.271	BMB
3	13.22	ClO3	2.060	0.704	36.90	804.079	BMB
Total:			8.831	1.909	100.00	2010.608	

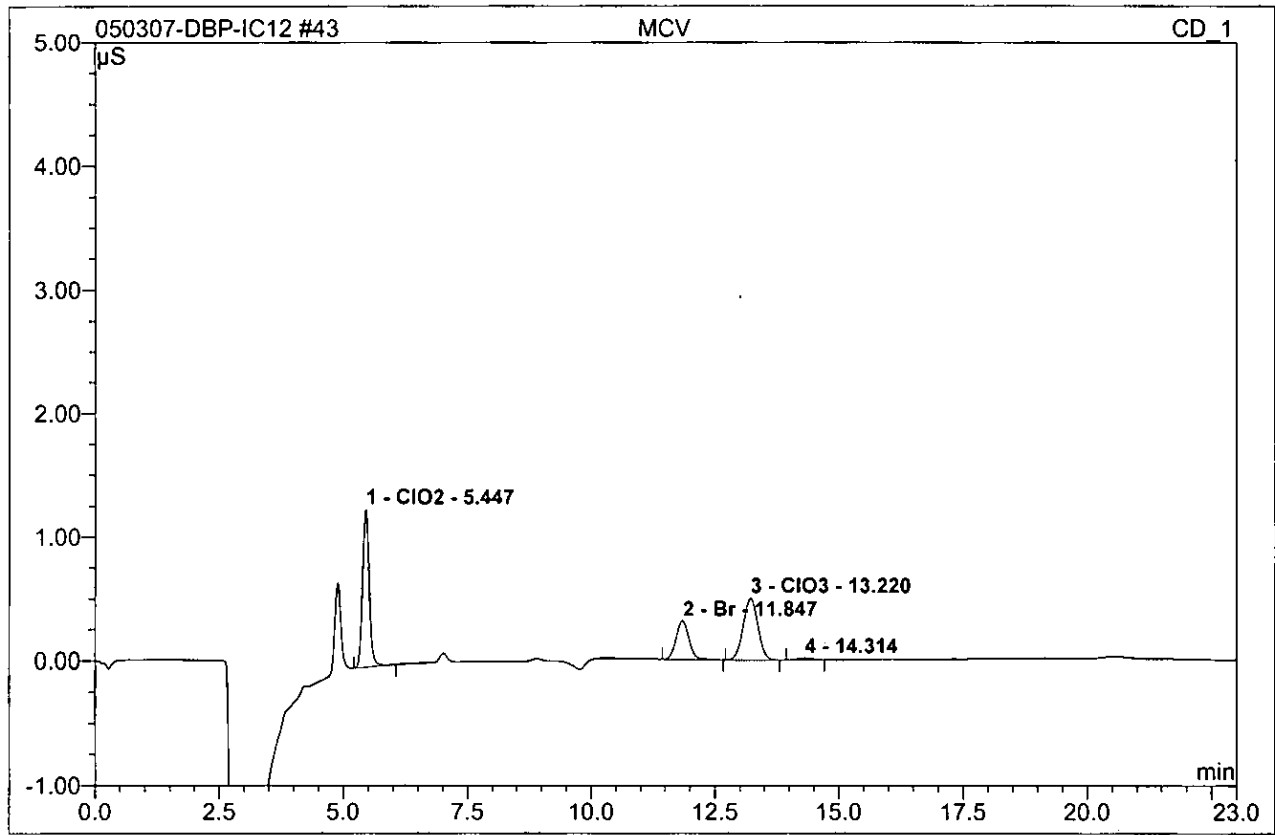
42 CCB

Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	737	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:	5/4/2007 1:21	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	

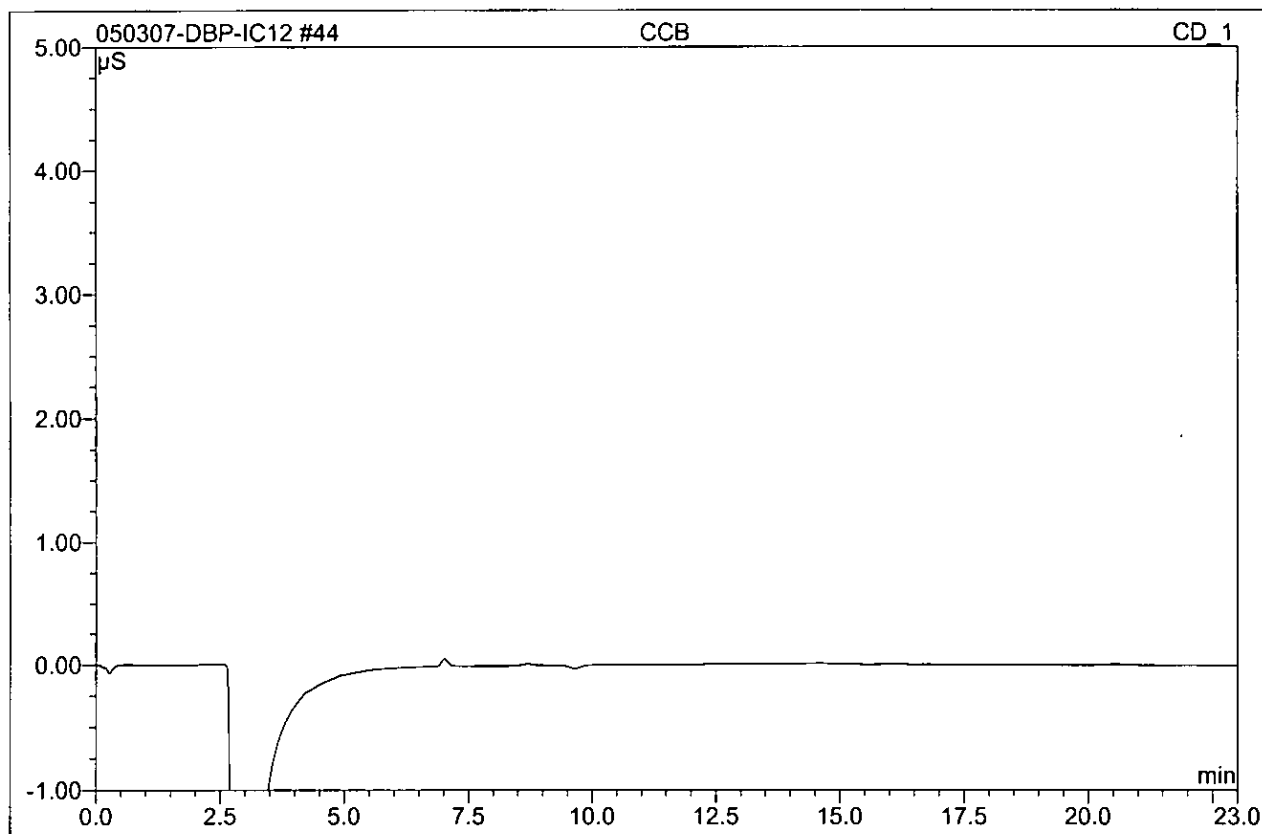
43 MCV			
Sample Name:	MCV	Injection Volume:	1000.0
Vial Number:	738	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	5/4/2007 1:46	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.45	ClO2	1.276	0.196	42.10	200.892	BMB
2	11.85	Br	0.313	0.093	20.05	100.947	BMB
3	13.22	ClO3	0.500	0.171	36.76	200.461	BMB
4	14.31	n.a.	0.015	0.005	1.09	n.a.	BMB
Total:			2.104	0.466	100.00	502.299	

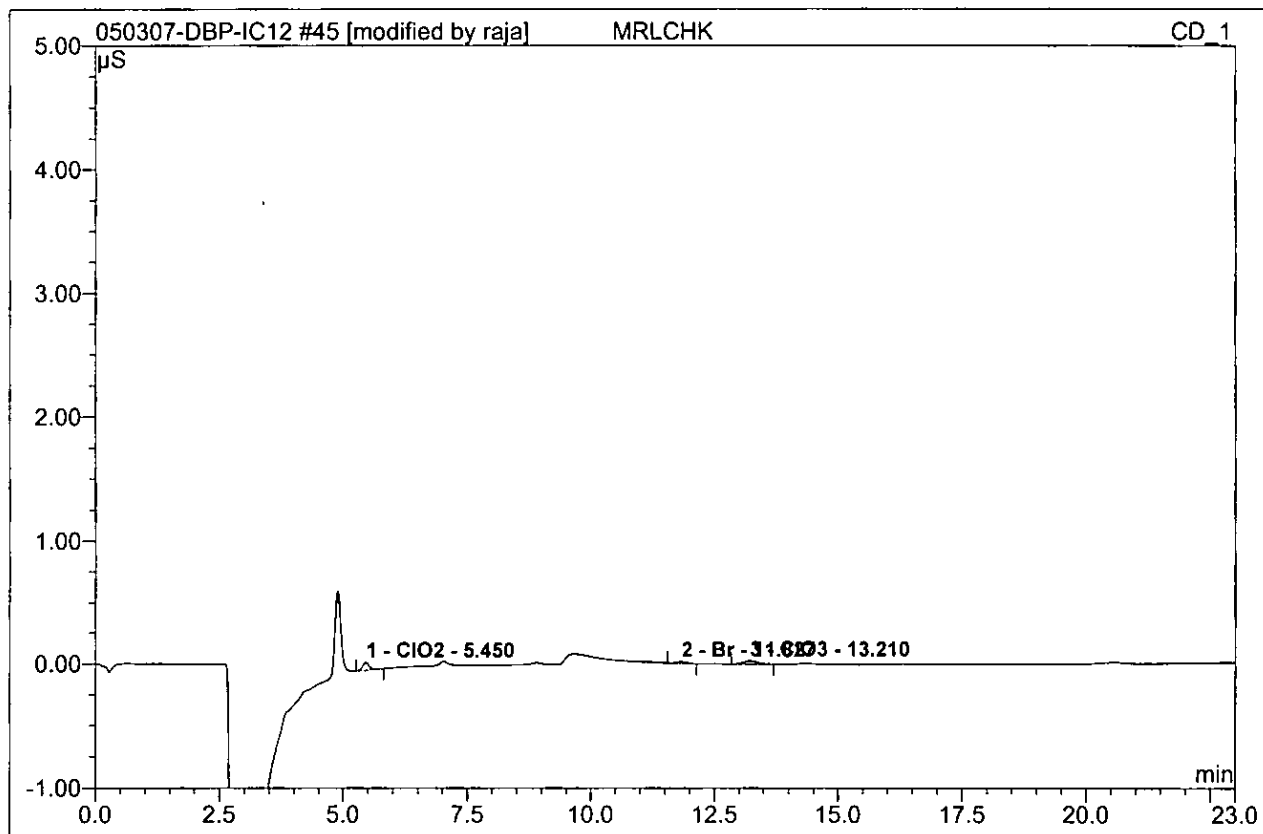
44 CCB

Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	740	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:	5/4/2007 2:12	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



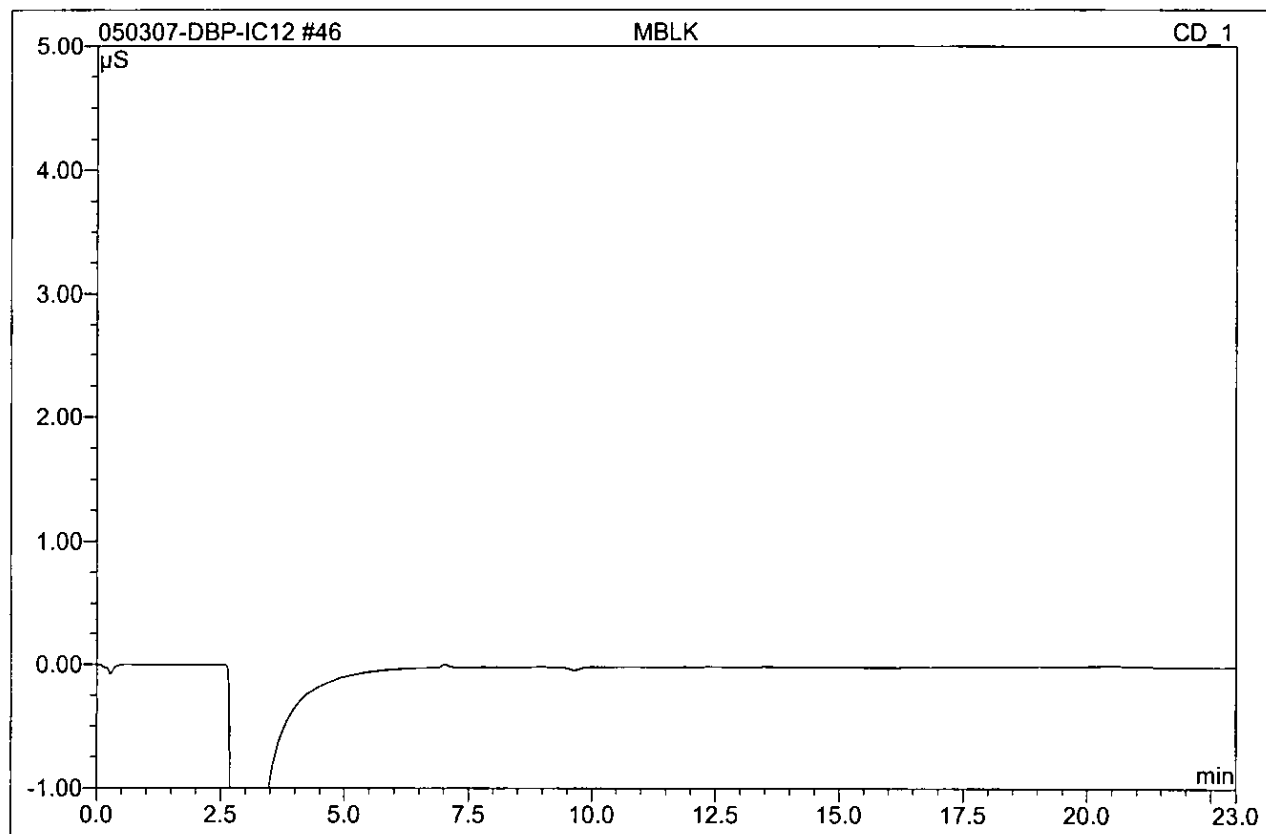
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

45 MRLCHK			
Sample Name:	MRLCHK	Injection Volume:	1000.0
Vial Number:	741	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:	5/4/2007 2:37	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	5.45	ClO2	0.064	0.010	44.72	9.670	BMB
2	11.83	Br	0.014	0.004	16.61	4.356	BMB*
3	13.21	ClO3	0.025	0.008	38.67	9.915	BMB
Total:			0.102	0.022	100.00	23.941	

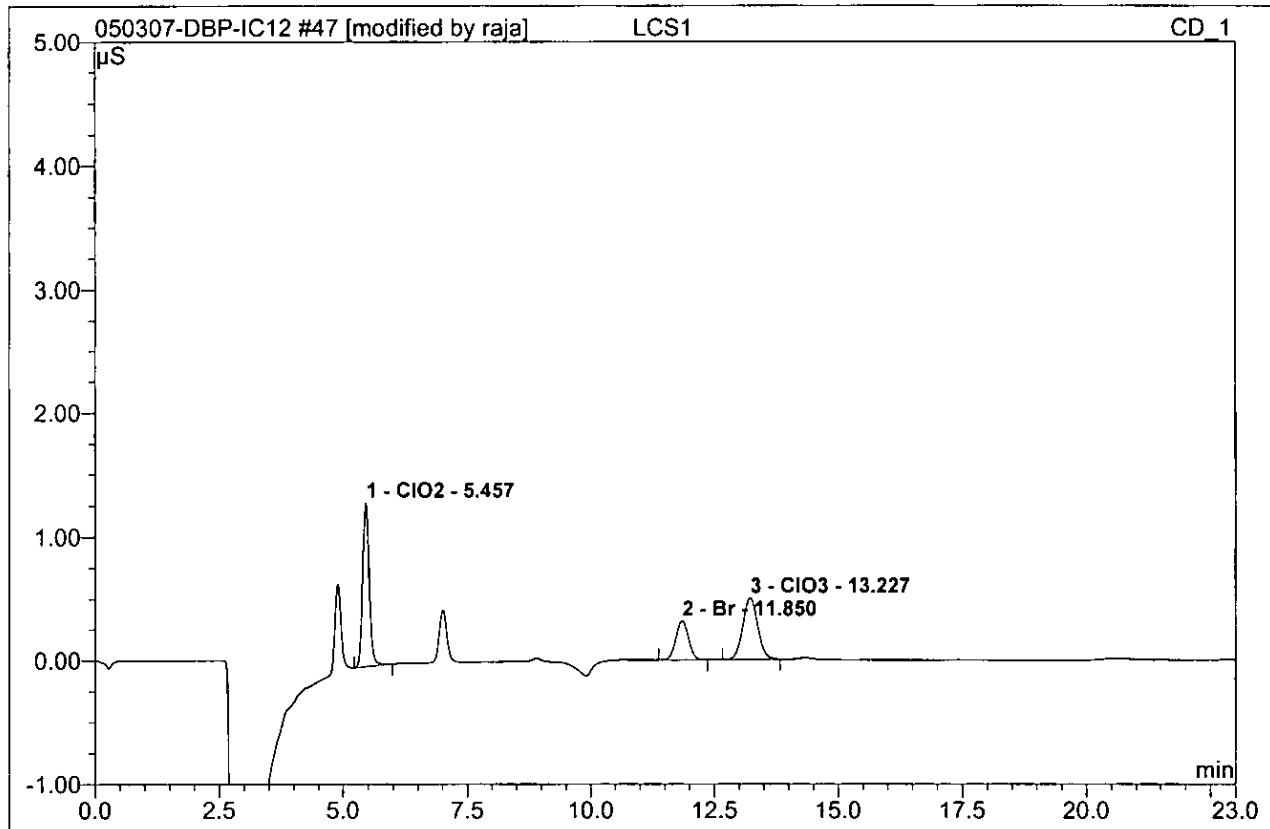
46 MBLK			
<i>Sample Name:</i>	MBLK	<i>Injection Volume:</i>	1000.0
<i>Vial Number:</i>	742	<i>Channel:</i>	CD_1
<i>Sample Type:</i>	unknown	<i>Wavelength:</i>	n.a.
<i>Control Program:</i>	IC12 test Program	<i>Bandwidth:</i>	n.a.
<i>Quantif. Method:</i>	DBP-Method	<i>Dilution Factor:</i>	1.0000
<i>Recording Time:</i>	5/4/2007 3:02	<i>Sample Weight:</i>	1.0000
<i>Run Time (min):</i>	23.00	<i>Sample Amount:</i>	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	

47 LCS1

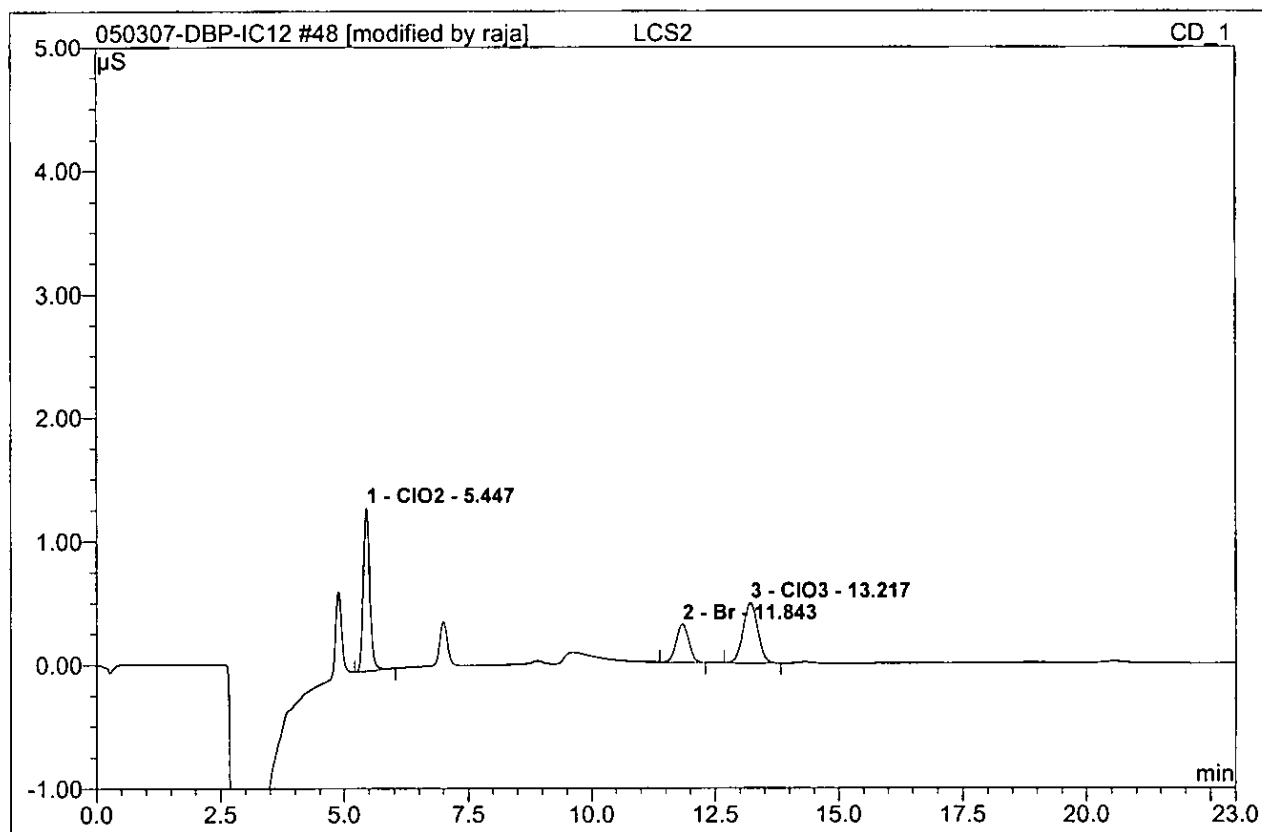
Sample Name:	LCS1	Injection Volume:	1000.0
Vial Number:	743	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	5/4/2007 3:28	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.46	ClO2	1.324	0.204	43.32	208.974	BMB*
2	11.85	Br	0.318	0.093	19.70	100.332	BMB
3	13.23	ClO3	0.501	0.174	36.98	203.995	BMB*
Total:			2.143	0.472	100.00	513.301	

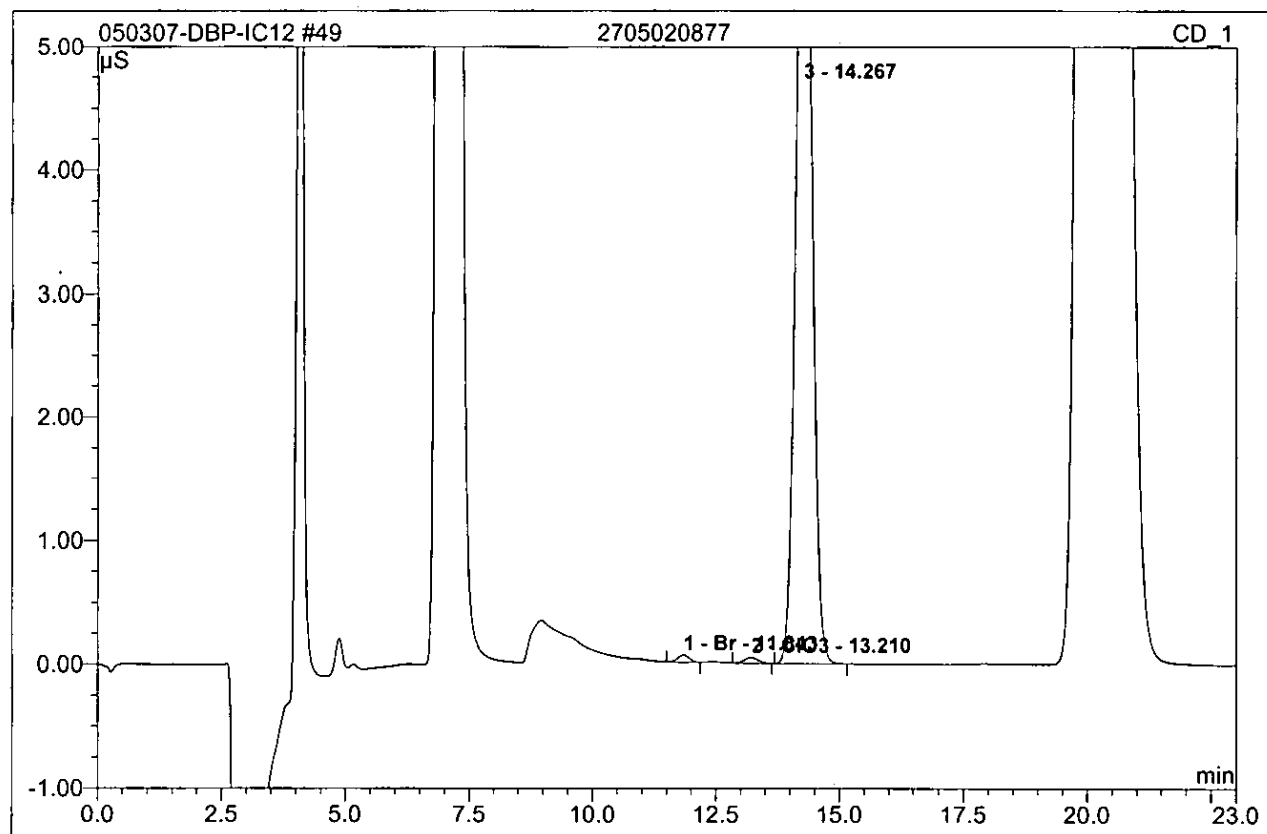
48 LCS2

Sample Name:	LCS2	Injection Volume:	1000.0
Vial Number:	744	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:	5/4/2007 3:53	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	5.45	C1O2	1.316	0.200	43.77	205.101	BMB*
2	11.84	Br	0.310	0.090	19.72	97.552	BMB
3	13.22	C1O3	0.488	0.167	36.50	195.574	BMB
Total:			2.113	0.458	100.00	498.228	

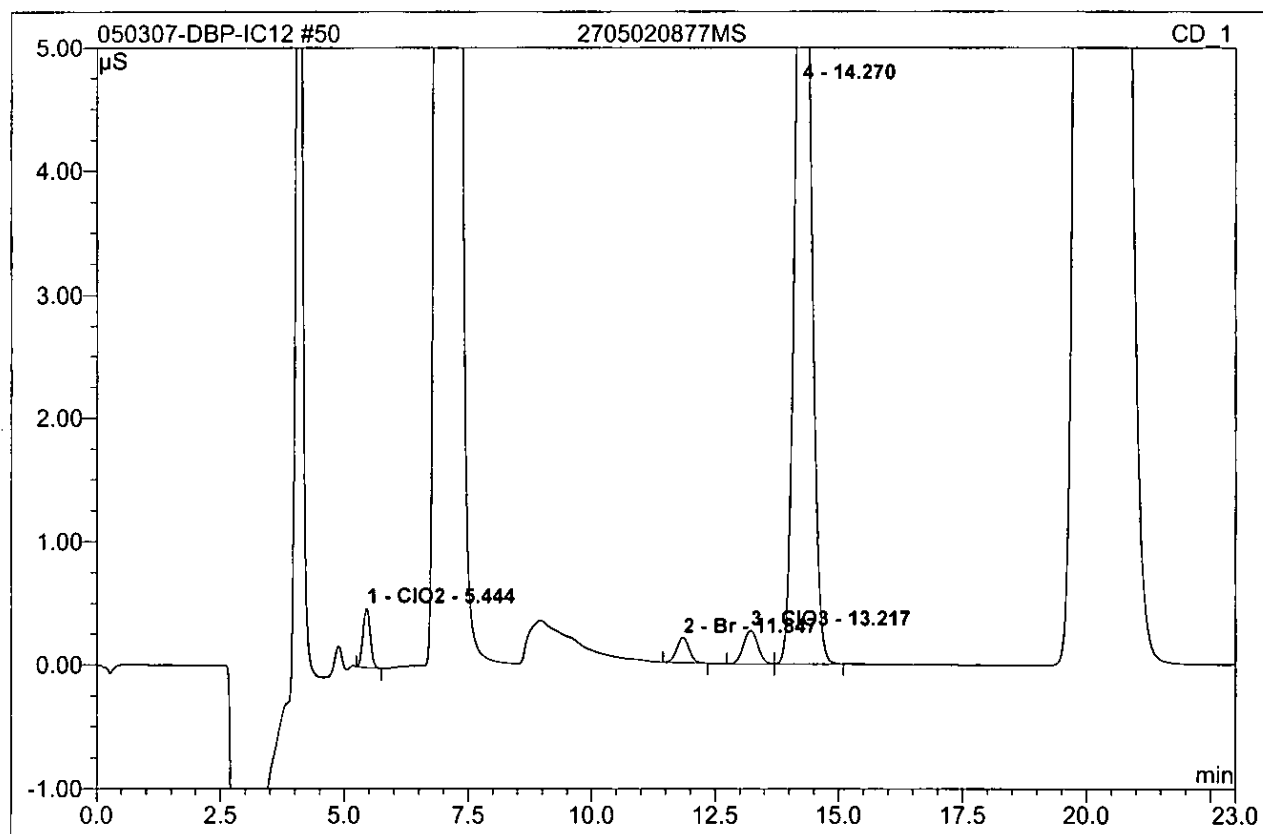
49 2705020877			
CLO2/CLO3			
Sample Name:	2705020877	Injection Volume:	1000.0
Vial Number:	745	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	5/4/2007 4:19	Sample Weight:	1.0000
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	11.84	Br	0.056	0.016	0.56	17.261	BMB
2	13.21	ClO3	0.045	0.014	0.51	16.878	BMB
3	14.27	n.a.	7.819	2.764	98.93	n.a.	BMB
Total:			7.920	2.794	100.00	34.139	

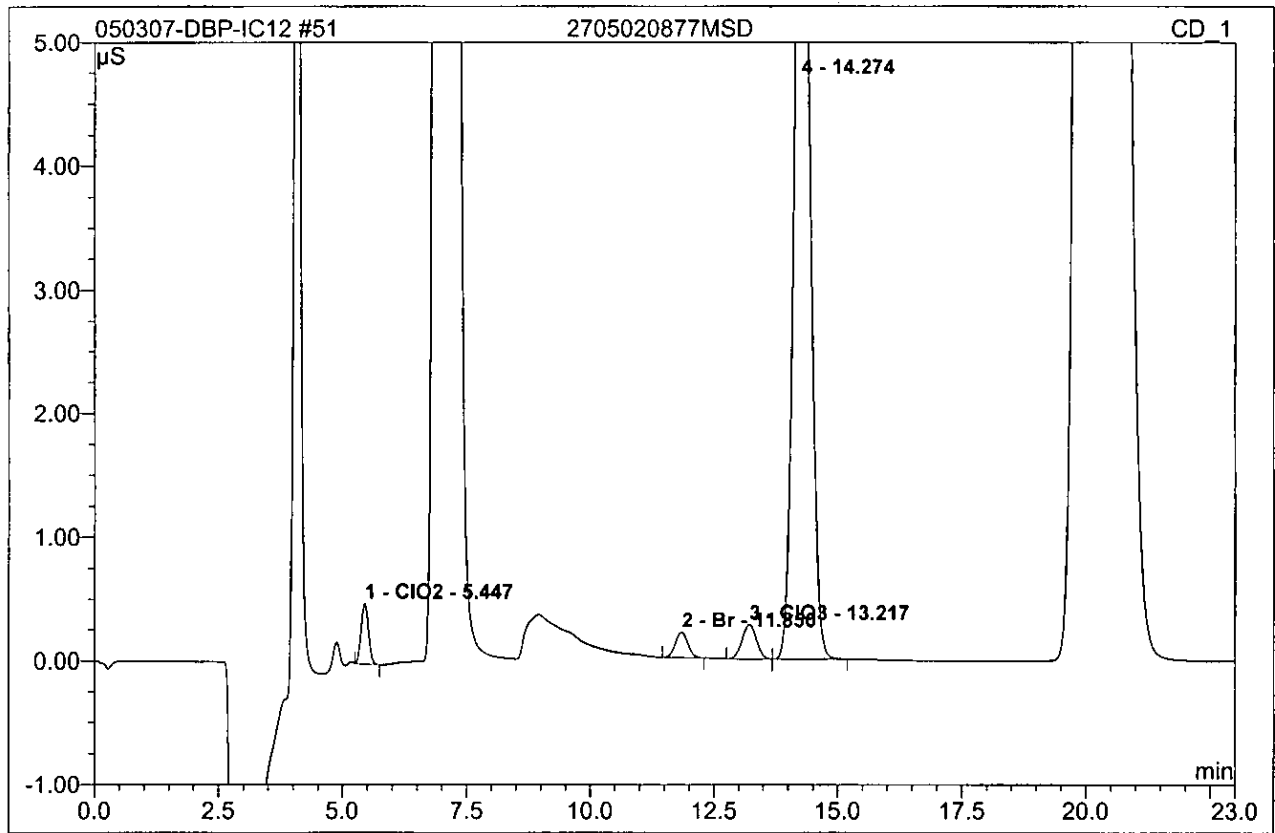
50 2705020877MS

Sample Name:	2705020877MS	Injection Volume:	1000.0
Vial Number:	746	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:	5/4/2007 4:44	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



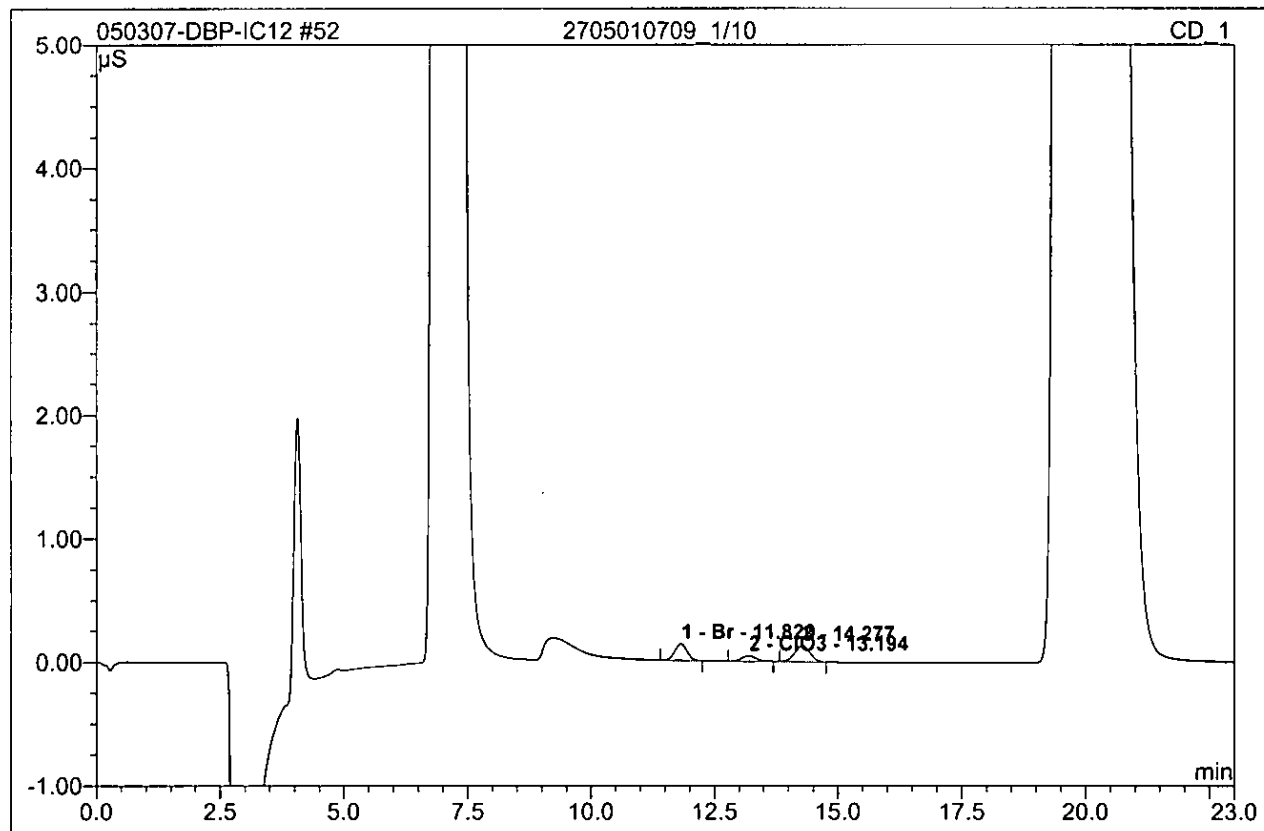
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.44	ClO2	0.485	0.083	2.78	85.926	BMB
2	11.85	Br	0.205	0.060	1.99	64.702	BMB
3	13.22	ClO3	0.276	0.093	3.12	109.644	BM
4	14.27	n.a.	7.815	2.759	92.11	n.a.	MB
Total:			8.781	2.995	100.00	260.272	

51 2705020877MSD			
Sample Name:	2705020877MSD	Injection Volume:	1000.0
Vial Number:	747	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:	5/4/2007 5:09	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



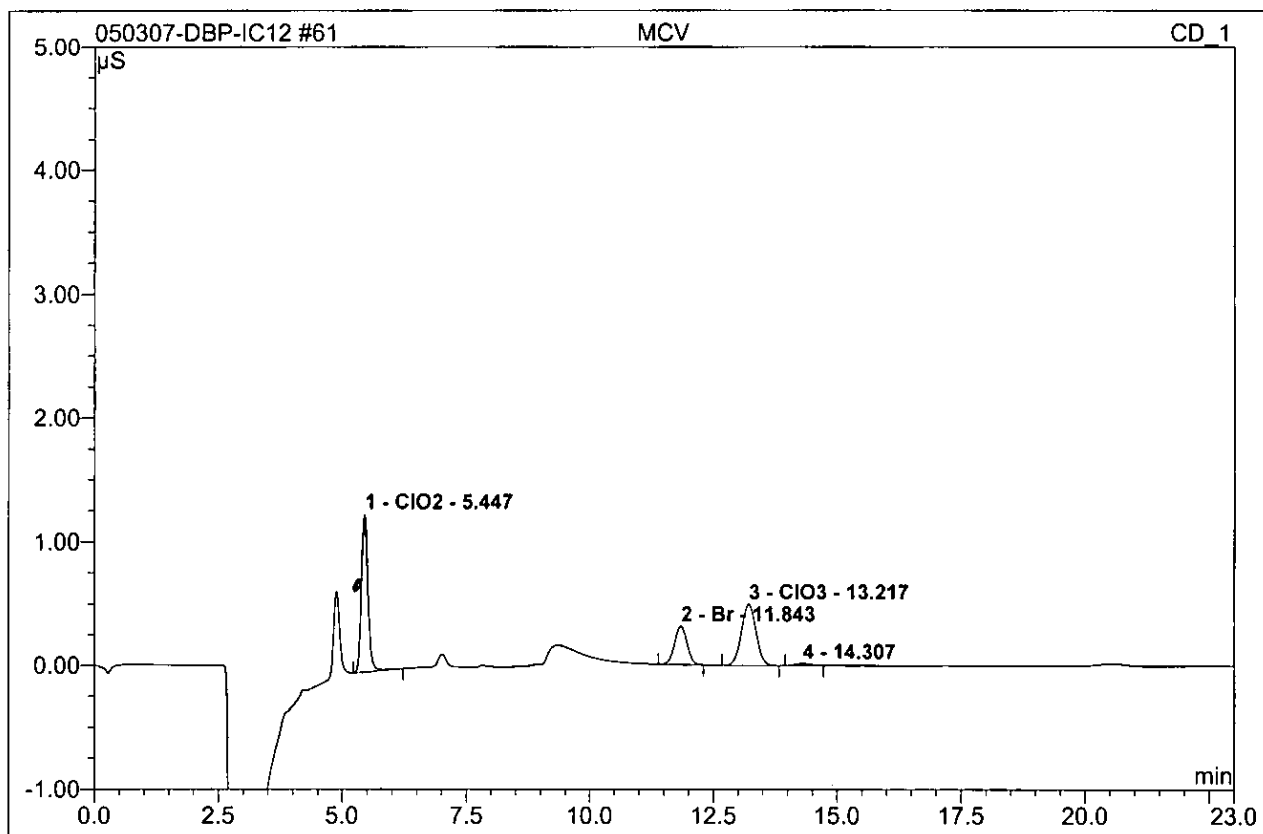
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppb	Type
1	5.45	ClO2	0.486	0.084	2.80	86.263	BMB
2	11.85	Br	0.205	0.059	1.98	64.347	BMB
3	13.22	ClO3	0.277	0.093	3.09	108.790	BMB
4	14.27	n.a.	7.812	2.758	92.13	n.a.	BMB
Total:			8.780	2.994	100.00	259.400	

52 2705010709_1/10			
CLO39056			
Sample Name:	2705010709_1/10	Injection Volume:	1000.0
Vial Number:	748	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	10.0000
Recording Time:	5/4/2007 5:35	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



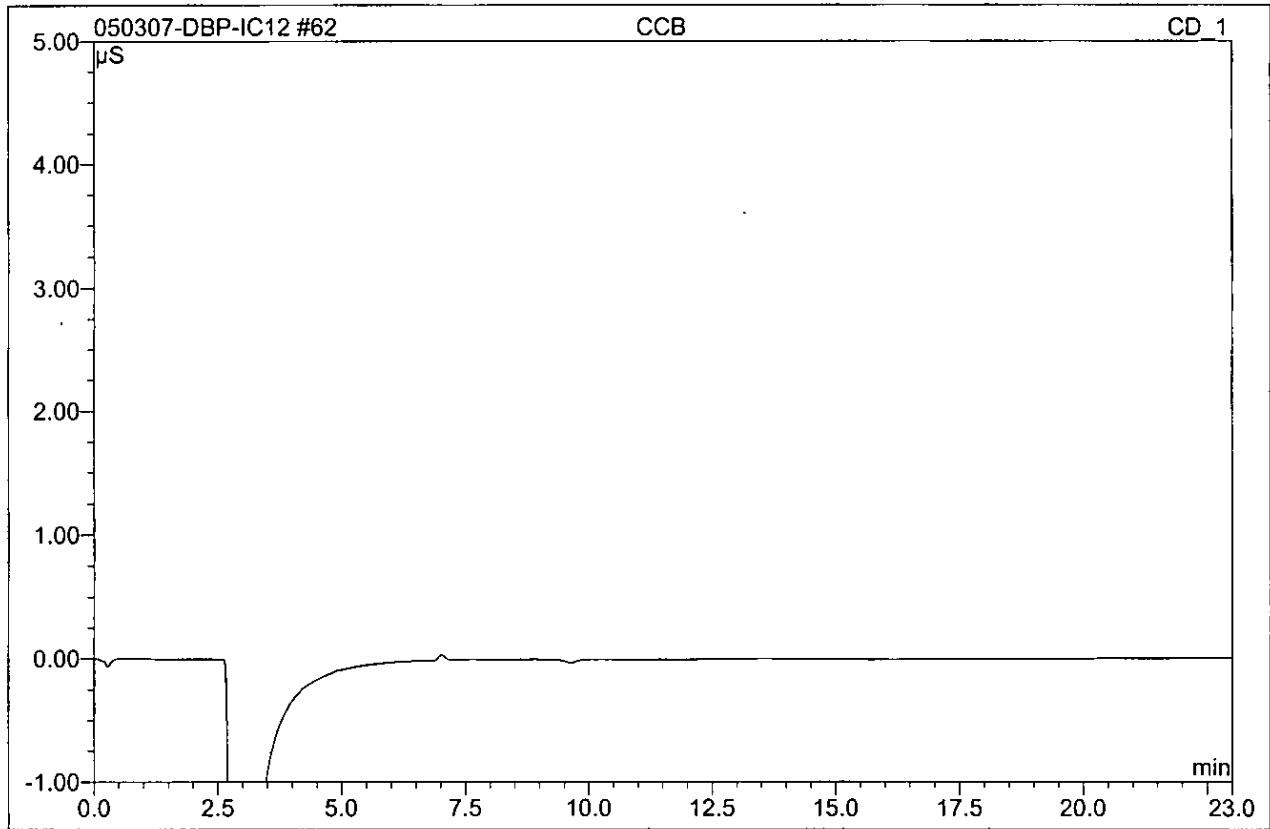
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	11.82	Br	0.133	0.039	39.06	422.478	BMB
2	13.19	ClO3	0.044	0.015	15.11	176.337	BMB
3	14.28	n.a.	0.128	0.046	45.84	n.a.	BMB
Total:			0.305	0.099	100.00	598.815	

61 MCV			
Sample Name:	MCV	Injection Volume:	1000.0
Vial Number:	757	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:	5/4/2007 9:23	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



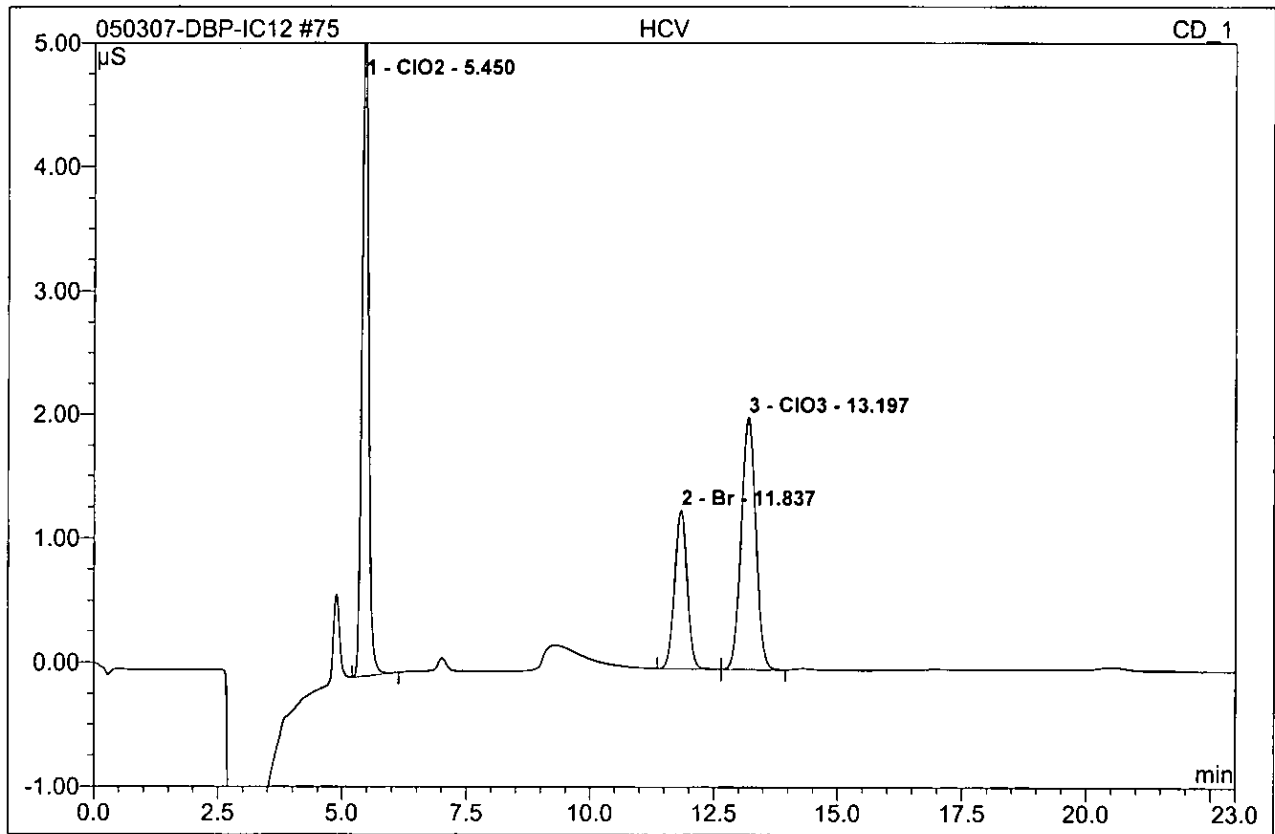
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.45	ClO2	1.276	0.197	42.34	201.224	BMB
2	11.84	Br	0.313	0.092	19.74	98.973	BMB
3	13.22	ClO3	0.497	0.171	36.73	199.531	BMB
4	14.31	n.a.	0.016	0.006	1.20	n.a.	BMB
Total:			2.103	0.464	100.00	499.728	

62 CCB			
Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	758	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:	5/4/2007 9:49	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



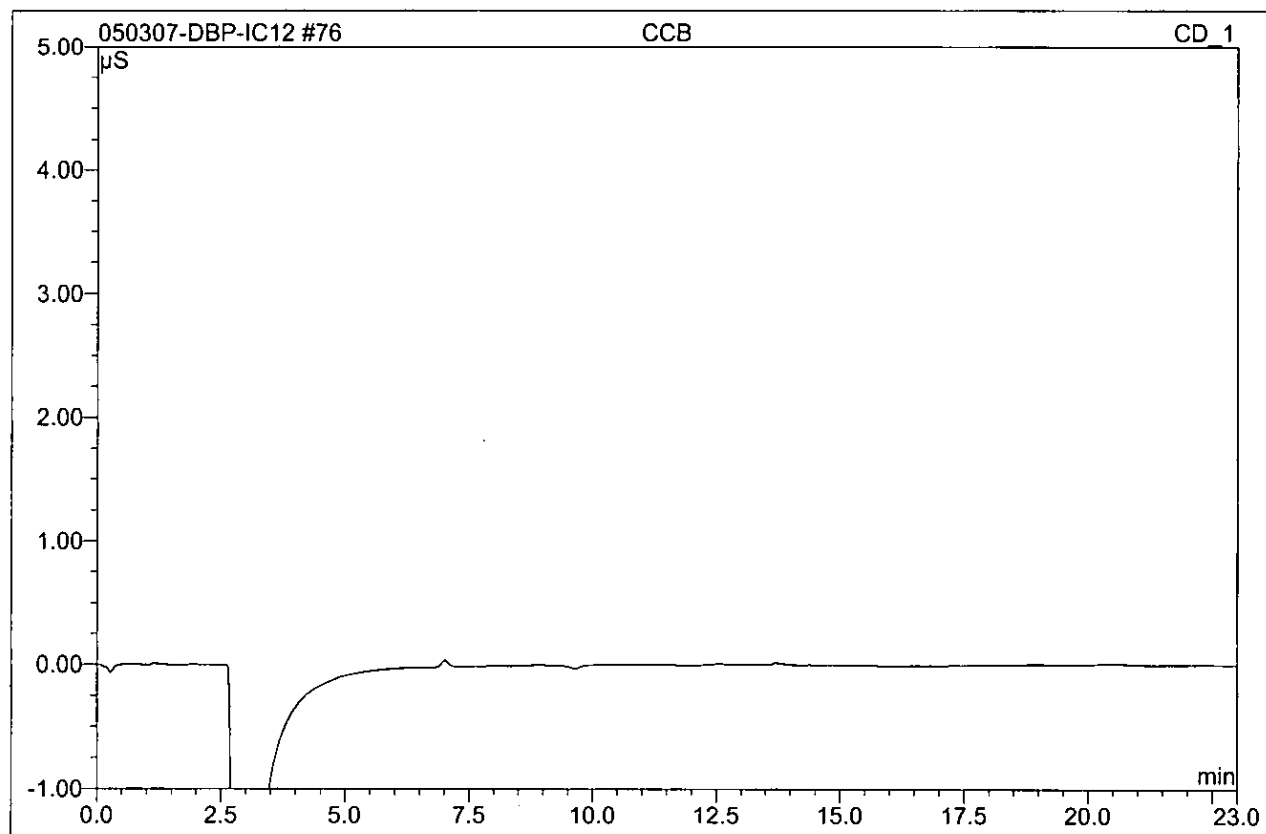
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

75 HCV			
Sample Name:	HCV	Injection Volume:	1000.0
Vial Number:	771	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:	5/4/2007 15:23	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	5.45	ClO2	5.359	0.813	43.21	793.246	BMB
2	11.84	Br	1.272	0.375	19.93	397.916	BMB
3	13.20	ClO3	2.031	0.693	36.85	791.923	BMB
Total:			8.661	1.882	100.00	1983.085	

76 CCB			
Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	772	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:	5/4/2007 15:48	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	

DBP QC Checklist

Analysis Date: 05-07-07 Analyst: Raja

QC'd by M Date 13 May 07

Instrument: IC12

Batch #1

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 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 \leq half of the MRL.

N/A 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

N/A 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.

N/A 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%

N/A CLO2 (180-220ppb)

CLO3 (180-220ppb)

BR (90-110ppb)

HCV recovery is between 90-110%

N/A 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

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 ClO3 CD 1	
1,	autocal1,		05/01/07 10:54,	1.0,	n.a.	
2,	autocal2,	RAJA060520-3	05/01/07 11:19,	1.0,	10.1329	
3,	autocal3,	RAJA060520-4	05/01/07 11:45,	1.0,	19.4092	
4,	autocal4,	RAJA060520-5	05/01/07 12:10,	1.0,	100.8718	
5,	autocal5,	RAJA060520-6	05/01/07 12:36,	1.0,	199.5885	
6,	autocal6,	RAJA060520-7	05/01/07 13:01,	1.0,	399.981	
7,	autocal7,	RAJA060520-8	05/01/07 13:26,	1.0,	800.0166	
8,	WASH,		05/07/07 11:05,	1.0,	n.a.	
9,	MCV,		05/07/07 11:30,	1.0,	203.7389	102%
10,	CCB,		05/07/07 11:56,	1.0,	n.a.	
11,	MRLCHK,		05/07/07 12:21,	1.0,	12.0603	121%
12,	MBLK,		05/07/07 12:47,	1.0,	n.a.	
13,	LCS1,		05/07/07 13:12,	1.0,	200.7749	100%
14,	LCS2,		05/07/07 13:37,	1.0,	203.4892	102%
15,	2705010702_1/50,	CLO39056	05/07/07 14:03,	50.0,	14717.48	
16,	2705010717_1/5,	CLO39056	05/07/07 14:28,	5.0,	n.a.	
17,	2705010089_1/10,	CLO3	05/07/07 14:53,	10.0,	n.a.	
18,	2705030220_1/10000,	CLO39056	05/07/07 15:19,	10000.0,	1083535	
19,	2705010712,	CLO39056	05/07/07 15:44,	1.0,	778.646	
20,	2705010813-DNR,	CLO39056	05/07/07 16:10,	1.0,	548.9618	
21,	2705010813MS,		05/07/07 16:35,	1.0,	114.5599	96.3%
22,	2705010813MSD,		05/07/07 17:00,	1.0,	111.0847	92.8%
23,	2705020184_1/100,DNR	CLO39056	05/07/07 17:26,	100.0,	825959.9	DNR, over range
24,	2705030219,	CLO39056	05/07/07 17:51,	1.0,	n.a.	
25,	2705070079_1/5-DNR,	BR	05/07/07 18:17,	5.0,	n.a.	
26,	2705010813,	CLO39056/RERU	05/07/07 18:42,	1.0,	18.3054	
27,	MCV,		05/07/07 19:07,	1.0,	205.1133	103%
28,	CCB,		05/07/07 19:33,	1.0,	n.a.	
29,	2704270138,	BR	05/07/07 19:58,	1.0,	44.0804	
30,	2704270138MS,		05/07/07 20:24,	1.0,	134.8043	90.7%
31,	2704270138MSD,		05/07/07 20:49,	1.0,	132.9933	88.9%
32,	2705070079,	BR	05/07/07 21:14,	1.0,	n.a.	
33,	2704270078_1/500,	BR	05/07/07 21:54,	500.0,	n.a.	
34,	2705010418,	BR	05/07/07 22:19,	1.0,	8.0896	
35,	2705010420,	BR	05/07/07 22:44,	1.0,	12.7989	
36,	2705020227,	BR	05/07/07 23:10,	1.0,	n.a.	
37,	2705020258,	BR	05/07/07 23:35,	1.0,	n.a.	
38,	2705030007,	BR	05/08/07 00:01,	1.0,	n.a.	
39,	2705030008,	BR	05/08/07 00:26,	1.0,	123.4315	
40,	2705030009,	BR	05/08/07 00:51,	1.0,	507.1808	
41,	HCV,		05/08/07 01:17,	1.0,	799.7117	100%
42,	CCB,		05/08/07 01:42,	1.0,	n.a.	
43,	MCV,		05/08/07 02:08,	1.0,	192.1405	96.1%
44,	CCB,		05/08/07 02:33,	1.0,	n.a.	
45,	MRLCHK,		05/08/07 02:58,	1.0,	9.8678	98.7%
46,	MBLK,		05/08/07 03:24,	1.0,	n.a.	
47,	LCS1,		05/08/07 03:49,	1.0,	197.5348	98.8%
48,	LCS2,		05/08/07 04:15,	1.0,	199.1516	99.6%

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb CLO3 CD 1	
49,	2705020217,	BR	05/08/07 04:40,	1.0,	n.a.	
50,	2705020217MS,		05/08/07 05:05,	1.0,	✓ 94.5284	94.5%
51,	2705020217MSD,		05/08/07 05:31,	1.0,	✓ 101.6407	102%
52,	2705010113,	BR	05/08/07 05:56,	1.0,	n.a.	
53,	2705020866,	BR	05/08/07 06:22,	1.0,	n.a.	
54,	2705020606,	BR	05/08/07 06:47,	1.0,	8.4781	
55,	2705030109,	CLO2	05/08/07 07:12,	1.0,	37.4105	
56,	2705030110,	CLO2	05/08/07 07:38,	1.0,	51.9907	
57,	2705030111,	CLO2	05/08/07 08:03,	1.0,	55.5747	
58,	2705040046,	CLO2	05/08/07 08:29,	1.0,	333.241	
59,	2705040047,	CLO2	05/08/07 08:54,	1.0,	310.0618	
60,	2705040048,	CLO2	05/08/07 09:19,	1.0,	317.6671	
61,	MCV,		05/08/07 09:45,	1.0,	202.0207	101%
62,	CCB,		05/08/07 10:10,	1.0,	n.a.	
63,	2705040022,	CLO2/CLO3	05/08/07 10:36,	1.0,	n.a. ✓	
64,	2705040300,	CLO2/CLO3	05/08/07 11:01,	1.0,	16.23 ✓	
65,	2705040300MS,		05/08/07 11:26,	1.0,	110.8847	94.7%
66,	2705040300MSD,		05/08/07 11:52,	1.0,	110.3016	94.1%
67,	2705040305_1/10000,	CLO3	05/08/07 12:17,	10000.0,	3973900 ✓	
68,	2705040314_1/2,	CLO39056	05/08/07 12:43,	2.0,	n.a. ✓	
69,	2705040316_1/1000,	CLO39056	05/08/07 13:08,	1000.0,	280882.8 ✓	
70,	2705040330_1/1000-D	CLO39056	05/08/07 13:33,	1000.0,	1917.012	
71,	2705040332,	CLO39056	05/08/07 13:59,	1.0,	n.a. ✓	
72,	2705040335_1/1000,	CLO39056	05/08/07 14:24,	1000.0,	255025.3 ✓	
73,	2705040347_1/50000,	CLO39056	05/08/07 14:50,	50000.0,	6623378 ✓	
74,	2705040350_1/50000,	CLO39056	05/08/07 15:15,	50000.0,	1980678 ✓	
75,	HCV,		05/08/07 15:40,	1.0,	802.7794	100%
76,	CCB,		05/08/07 16:06,	1.0,	n.a.	

Sequence: 050707-DBP-IC12
Operator: raja

Title:
Datasource: IC-SERVER_local
Location: IC12\2007\MAY
Timebase: IC12
#Samples: 76

Created: 5/7/2007 10:36:44 AM by raja
(Modified, not saved)

No.	Name	Comment	Dil. Factor	Sample ID	Type	Program
1	autocal1		1.0000		Standard	IC12 test Program
2	autocal2	RAJA060520-3	1.0000		Standard	IC12 test Program
3	autocal3	RAJA060520-4	1.0000		Standard	IC12 test Program
4	autocal4	RAJA060520-5	1.0000		Standard	IC12 test Program
5	autocal5	RAJA060520-6	1.0000		Standard	IC12 test Program
6	autocal6	RAJA060520-7	1.0000		Standard	IC12 test Program
7	autocal7	RAJA060520-8	1.0000		Standard	IC12 test Program
8	WASH		1.0000		Unknown	IC12 test Program
9	MCV		1.0000		Unknown	IC12 test Program
10	CCB		1.0000		Unknown	IC12 test Program
11	MRLCHK		1.0000		Unknown	IC12 test Program
12	MBLK		1.0000		Unknown	IC12 test Program
13	LCS1		1.0000		Unknown	IC12 test Program
14	LCS2		1.0000		Unknown	IC12 test Program
15	2705010702_1/50	CLO39056	50.0000		Unknown	IC12 test Program
16	2705010717_1/5	CLO39056	5.0000		Unknown	IC12 test Program
17	2705010089_1/10	CLO3	10.0000		Unknown	IC12 test Program
18	2705030220_1/10000	CLO39056	10000.0000		Unknown	IC12 test Program
19	2705010712	CLO39056	1.0000		Unknown	IC12 test Program
20	2705010813-DNR	CLO39056	1.0000		Unknown	IC12 test Program
21	2705010813MS		1.0000		Unknown	IC12 test Program
22	2705010813MSD		1.0000		Unknown	IC12 test Program
23	2705030184_1/100-dnr	CLO39056	100.0000		Unknown	IC12 test Program
24	2705030219	CLO39056	1.0000		Unknown	IC12 test Program
25	2705070079_1/5-DNR	BR	5.0000		Unknown	IC12 test Program
26	2705010813	CLO39056/RERUN	1.0000		Unknown	IC12 test Program
27	MCV		1.0000		Unknown	IC12 test Program
28	CCB		1.0000		Unknown	IC12 test Program
29	2704270138	BR	1.0000		Unknown	IC12 test Program
30	2704270138MS		1.0000		Unknown	IC12 test Program
31	2704270138MSD		1.0000		Unknown	IC12 test Program
32	2705070079	BR	1.0000		Unknown	IC12 test Program
33	2704270078_1/500	BR	500.0000		Unknown	IC12 test Program
34	2705010418	BR	1.0000		Unknown	IC12 test Program
35	2705010420	BR	1.0000		Unknown	IC12 test Program
36	2705020227	BR	1.0000		Unknown	IC12 test Program
37	2705020258	BR	1.0000		Unknown	IC12 test Program
38	2705030007	BR	1.0000		Unknown	IC12 test Program
39	2705030008	BR	1.0000		Unknown	IC12 test Program
40	2705030009	BR	1.0000		Unknown	IC12 test Program
41	HCV		1.0000		Unknown	IC12 test Program
42	CCB		1.0000		Unknown	IC12 test Program

Sequence: 050707-DBP-IC12
Operator: raja

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Title:
Datasource: IC-SERVER_local
Location: IC12\2007MAY
Timebase: IC12
#Samples: 76

Created: 5/7/2007 10:36:44 AM by raja
(Modified, not saved)

No.	Name	Method	Status	Inj. Date/Time	*Analyst
1	autocal1	DBP-Method	Finished	5/1/2007 10:54:27 AM	raja
2	autocal2	DBP-Method	Finished	5/1/2007 11:19:51 AM	raja
3	autocal3	DBP-Method	Finished	5/1/2007 11:45:15 AM	raja
4	autocal4	DBP-Method	Finished	5/1/2007 12:10:39 PM	raja
5	autocal5	DBP-Method	Finished	5/1/2007 12:36:03 PM	raja
6	autocal6	DBP-Method	Finished	5/1/2007 1:01:26 PM	raja
7	autocal7	DBP-Method	Finished	5/1/2007 1:26:50 PM	raja
8	WASH	DBP-Method	Finished	5/7/2007 11:05:25 AM	raja
9	MCV	DBP-Method	Finished	5/7/2007 11:30:49 AM	raja
10	CCB	DBP-Method	Finished	5/7/2007 11:56:13 AM	raja
11	MRLCHK	DBP-Method	Finished	5/7/2007 12:21:36 PM	raja
12	MBLK	DBP-Method	Finished	5/7/2007 12:47:00 PM	raja
13	LCS1	DBP-Method	Finished	5/7/2007 1:12:23 PM	raja
14	LCS2	DBP-Method	Finished	5/7/2007 1:37:46 PM	raja
15	2705010702_1/50	DBP-Method	Finished	5/7/2007 2:03:10 PM	raja
16	2705010717_1/5	DBP-Method	Finished	5/7/2007 2:28:34 PM	raja
17	2705010089_1/10	DBP-Method	Finished	5/7/2007 2:53:57 PM	raja
18	2705030220_1/10000	DBP-Method	Finished	5/7/2007 3:19:21 PM	raja
19	2705010712	DBP-Method	Finished	5/7/2007 3:44:44 PM	raja
20	2705010813-DNR	DBP-Method	Finished	5/7/2007 4:10:08 PM	raja
21	2705010813MS	DBP-Method	Finished	5/7/2007 4:35:31 PM	raja
22	2705010813MSD	DBP-Method	Finished	5/7/2007 5:00:55 PM	raja
23	2705030184_1/100-dnr	DBP-Method	Finished	5/7/2007 5:26:19 PM	raja
24	2705030219	DBP-Method	Finished	5/7/2007 5:51:43 PM	raja
25	2705070079_1/5-DNR	DBP-Method	Finished	5/7/2007 6:17:07 PM	raja
26	2705010813	DBP-Method	Finished	5/7/2007 6:42:31 PM	raja
27	MCV	DBP-Method	Finished	5/7/2007 7:07:54 PM	raja
28	CCB	DBP-Method	Finished	5/7/2007 7:33:18 PM	raja
29	2704270138	DBP-Method	Finished	5/7/2007 7:58:42 PM	raja
30	2704270138MS	DBP-Method	Finished	5/7/2007 8:24:05 PM	raja
31	2704270138MSD	DBP-Method	Finished	5/7/2007 8:49:29 PM	raja
32	2705070079	DBP-Method	Finished	5/7/2007 9:14:53 PM	raja
33	2704270078_1/500	DBP-Method	Finished	5/7/2007 9:54:13 PM	raja
34	2705010418	DBP-Method	Finished	5/7/2007 10:19:36 PM	raja
35	2705010420	DBP-Method	Finished	5/7/2007 10:44:59 PM	raja
36	2705020227	DBP-Method	Finished	5/7/2007 11:10:23 PM	raja
37	2705020258	DBP-Method	Finished	5/7/2007 11:35:46 PM	raja
38	2705030007	DBP-Method	Finished	5/8/2007 12:01:10 AM	raja
39	2705030008	DBP-Method	Finished	5/8/2007 12:26:34 AM	raja
40	2705030009	DBP-Method	Finished	5/8/2007 12:51:57 AM	raja
41	HCV	DBP-Method	Finished	5/8/2007 1:17:21 AM	raja
42	CCB	DBP-Method	Finished	5/8/2007 1:42:44 AM	raja

Sequence: 050707-DBP-IC12
Operator: raja

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Printed: 5/13/2007 3:42:52 PM

Title:
Datasource: IC-SERVER_local
Location: IC12\2007\MAY
Timebase: IC12
#Samples: 76

Created: 5/7/2007 10:36:44 AM by raja
(Modified, not saved)

No.	Name	Comment	Dil. Factor	Sample ID	Type	Program
43	MCV		1.0000		Unknown	IC12 test Program
44	CCB		1.0000		Unknown	IC12 test Program
45	MRLCHK		1.0000		Unknown	IC12 test Program
46	MBLK		1.0000		Unknown	IC12 test Program
47	LCS1		1.0000		Unknown	IC12 test Program
48	LCS2		1.0000		Unknown	IC12 test Program
49	2705020217	BR	1.0000		Unknown	IC12 test Program
50	2705020217MS		1.0000		Unknown	IC12 test Program
51	2705020217MSD		1.0000		Unknown	IC12 test Program
52	2705010113	BR	1.0000		Unknown	IC12 test Program
53	2705020866	BR	1.0000		Unknown	IC12 test Program
54	2705020806	BR	1.0000		Unknown	IC12 test Program
55	2705030109	CLO2	1.0000		Unknown	IC12 test Program
56	2705030110	CLO2	1.0000		Unknown	IC12 test Program
57	2705030111	CLO2	1.0000		Unknown	IC12 test Program
58	2705040046	CLO2	1.0000		Unknown	IC12 test Program
59	2705040047	CLO2	1.0000		Unknown	IC12 test Program
60	2705040048	CLO2	1.0000		Unknown	IC12 test Program
61	MCV		1.0000		Unknown	IC12 test Program
62	CCB		1.0000		Unknown	IC12 test Program
63	2705040022	CLO2/CLO3	1.0000		Unknown	IC12 test Program
64	2705040300	CLO2/CLO3	1.0000		Unknown	IC12 test Program
65	2705040300MS		1.0000		Unknown	IC12 test Program
66	2705040300MSD		1.0000		Unknown	IC12 test Program
67	2705040305_1/10000	CLO3	10000.0000		Unknown	IC12 test Program
68	2705040314_1/2	CLO39056	2.0000		Unknown	IC12 test Program
69	2705040316_1/1000	CLO39056	1000.0000		Unknown	IC12 test Program
70	2705040330_1/1000-DNR	CLO39056	1000.0000		Unknown	IC12 test Program
71	2705040332	CLO39056	1.0000		Unknown	IC12 test Program
72	2705040335_1/1000	CLO39056	1000.0000		Unknown	IC12 test Program
73	2705040347_1/50000	CLO39056	50000.0000		Unknown	IC12 test Program
74	2705040350_1/50000	CLO39056	50000.0000		Unknown	IC12 test Program
75	HCV		1.0000		Unknown	IC12 test Program
76	CCB		1.0000		Unknown	IC12 test Program

Sequence: 050707-DBP-IC12
Operator: raja

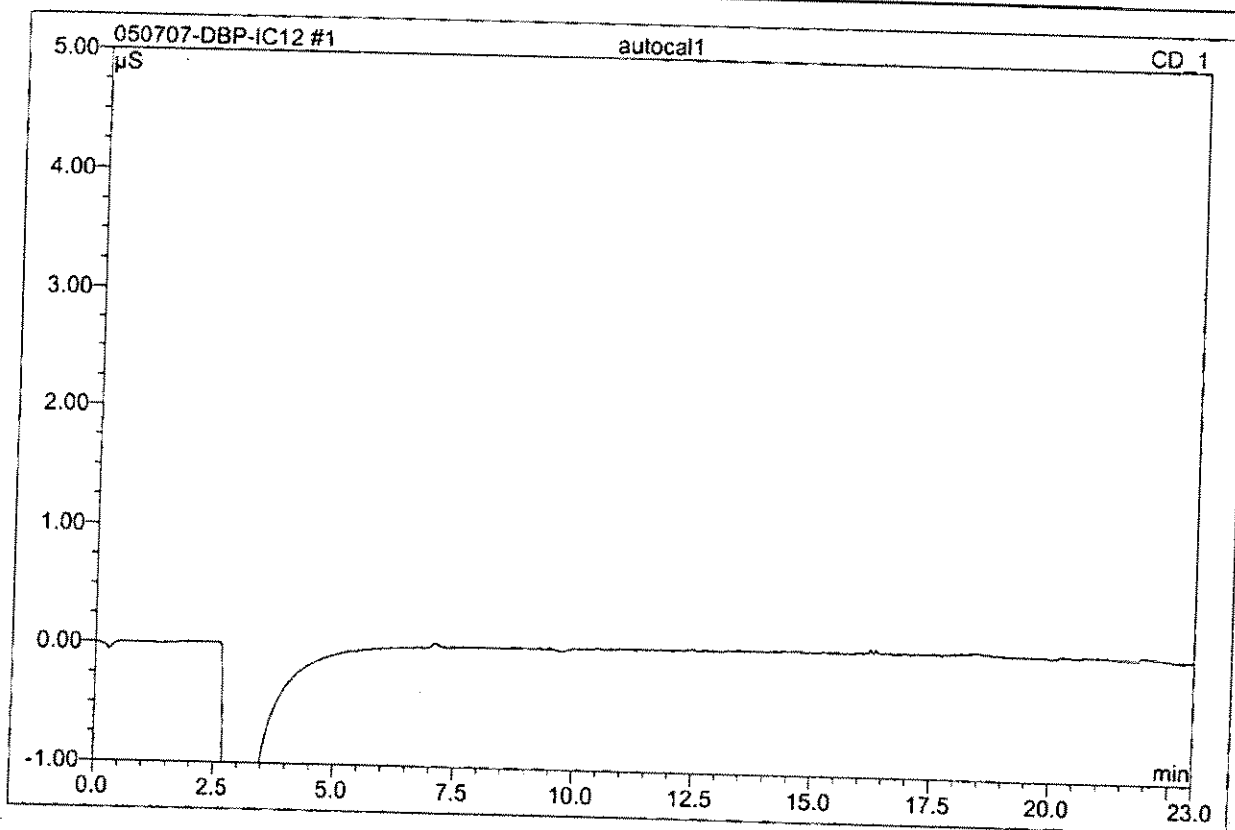
Page 4 of 4
Printed: 5/13/2007 3:42:52 PM

Title:
Datasource: IC-SERVER_local
Location: IC12\2007\MAY
Timebase: IC12
#Samples: 76

Created: 5/7/2007 10:36:44 AM by raja
(Modified, not saved)

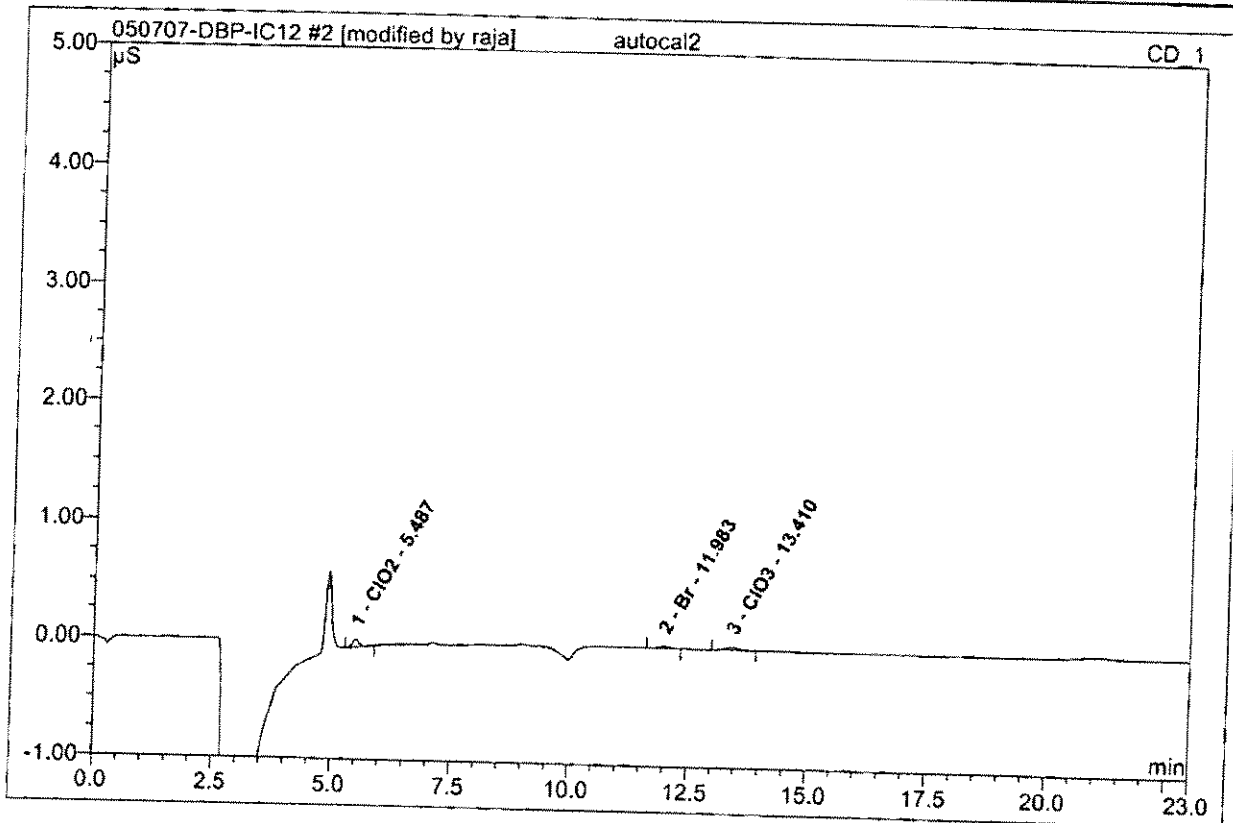
No.	Name	Method	Status	Inj. Date/Time	*Analyst
43	MCV	DBP-Method	Finished	5/8/2007 2:08:08 AM	raja
44	CCB	DBP-Method	Finished	5/8/2007 2:33:32 AM	raja
45	MRLCHK	DBP-Method	Finished	5/8/2007 2:58:56 AM	raja
46	MBLK	DBP-Method	Finished	5/8/2007 3:24:20 AM	raja
47	LCS1	DBP-Method	Finished	5/8/2007 3:49:43 AM	raja
48	LCS2	DBP-Method	Finished	5/8/2007 4:15:07 AM	raja
49	2705020217	DBP-Method	Finished	5/8/2007 4:40:31 AM	raja
50	2705020217MS	DBP-Method	Finished	5/8/2007 5:05:54 AM	raja
51	2705020217MSD	DBP-Method	Finished	5/8/2007 5:31:18 AM	raja
52	2705010113	DBP-Method	Finished	5/8/2007 5:56:42 AM	raja
53	2705020866	DBP-Method	Finished	5/8/2007 6:22:05 AM	raja
54	2705020606	DBP-Method	Finished	5/8/2007 6:47:29 AM	raja
55	2705030109	DBP-Method	Finished	5/8/2007 7:12:53 AM	raja
56	2705030110	DBP-Method	Finished	5/8/2007 7:38:16 AM	raja
57	2705030111	DBP-Method	Finished	5/8/2007 8:03:40 AM	raja
58	2705040046	DBP-Method	Finished	5/8/2007 8:29:04 AM	raja
59	2705040047	DBP-Method	Finished	5/8/2007 8:54:27 AM	raja
60	2705040048	DBP-Method	Finished	5/8/2007 9:19:51 AM	raja
61	MCV	DBP-Method	Finished	5/8/2007 9:45:15 AM	raja
62	CCB	DBP-Method	Finished	5/8/2007 10:10:39 AM	raja
63	2705040022	DBP-Method	Finished	5/8/2007 10:36:03 AM	raja
64	2705040300	DBP-Method	Finished	5/8/2007 11:01:26 AM	raja
65	2705040300MS	DBP-Method	Finished	5/8/2007 11:26:50 AM	raja
66	2705040300MSD	DBP-Method	Finished	5/8/2007 11:52:14 AM	raja
67	2705040305_1/10000	DBP-Method	Finished	5/8/2007 12:17:38 PM	raja
68	2705040314_1/2	DBP-Method	Finished	5/8/2007 12:43:02 PM	raja
69	2705040316_1/1000	DBP-Method	Finished	5/8/2007 1:08:26 PM	raja
70	2705040330_1/1000-DNR	DBP-Method	Finished	5/8/2007 1:33:49 PM	raja
71	2705040332	DBP-Method	Finished	5/8/2007 1:59:13 PM	raja
72	2705040335_1/1000	DBP-Method	Finished	5/8/2007 2:24:37 PM	raja
73	2705040347_1/50000	DBP-Method	Finished	5/8/2007 2:50:01 PM	raja
74	2705040350_1/50000	DBP-Method	Finished	5/8/2007 3:15:24 PM	raja
75	HCV	DBP-Method	Finished	5/8/2007 3:40:48 PM	raja
76	CCB	DBP-Method	Finished	5/8/2007 4:06:12 PM	raja

1 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:	5/1/2007 10:54	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



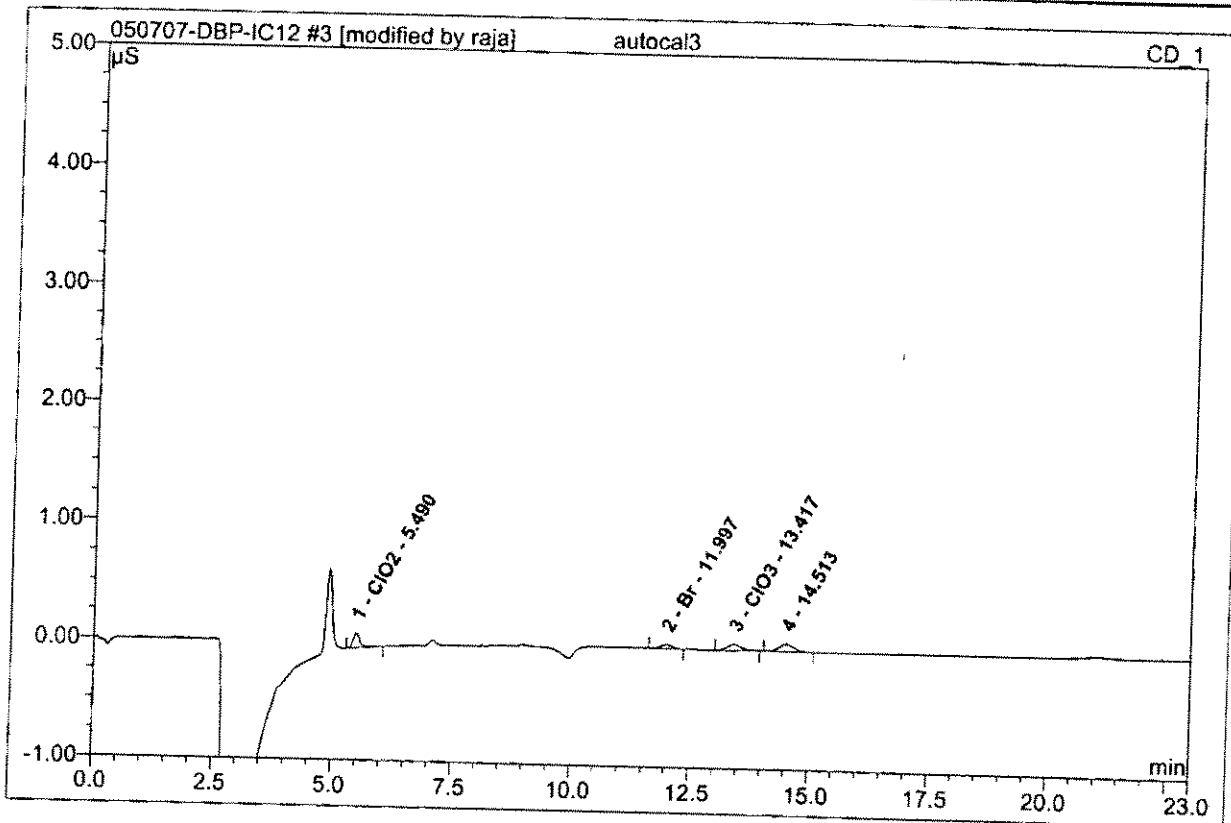
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

2 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:	5/1/2007 11:19	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



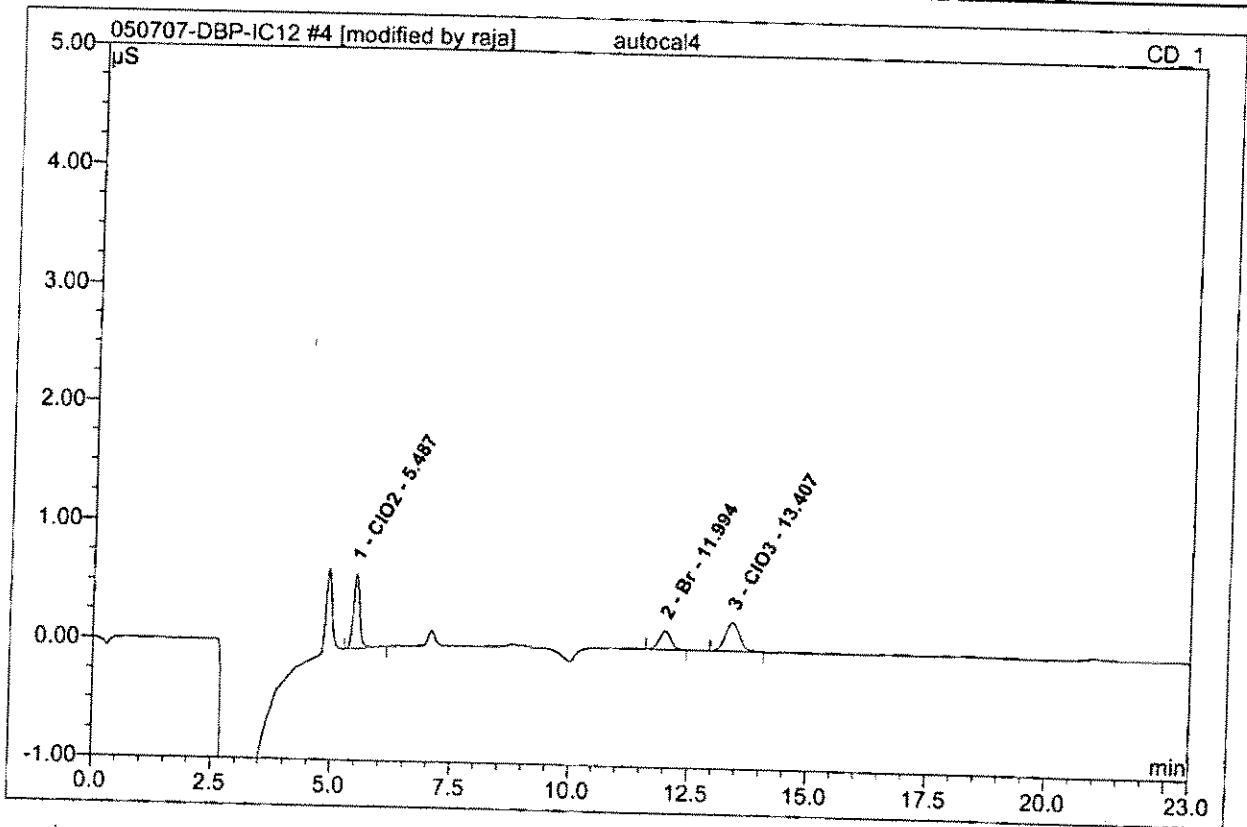
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %	Amount ppb	Type
1	5.49	ClO2	0.064	0.010	42.54	9.926	BMB
2	11.98	Br	0.016	0.005	20.78	5.721	BMB*
3	13.41	ClO3	0.025	0.009	36.68	10.133	BMB*
Total:			0.105	0.024	100.00	25.780	

3 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:	5/1/2007 11:45	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



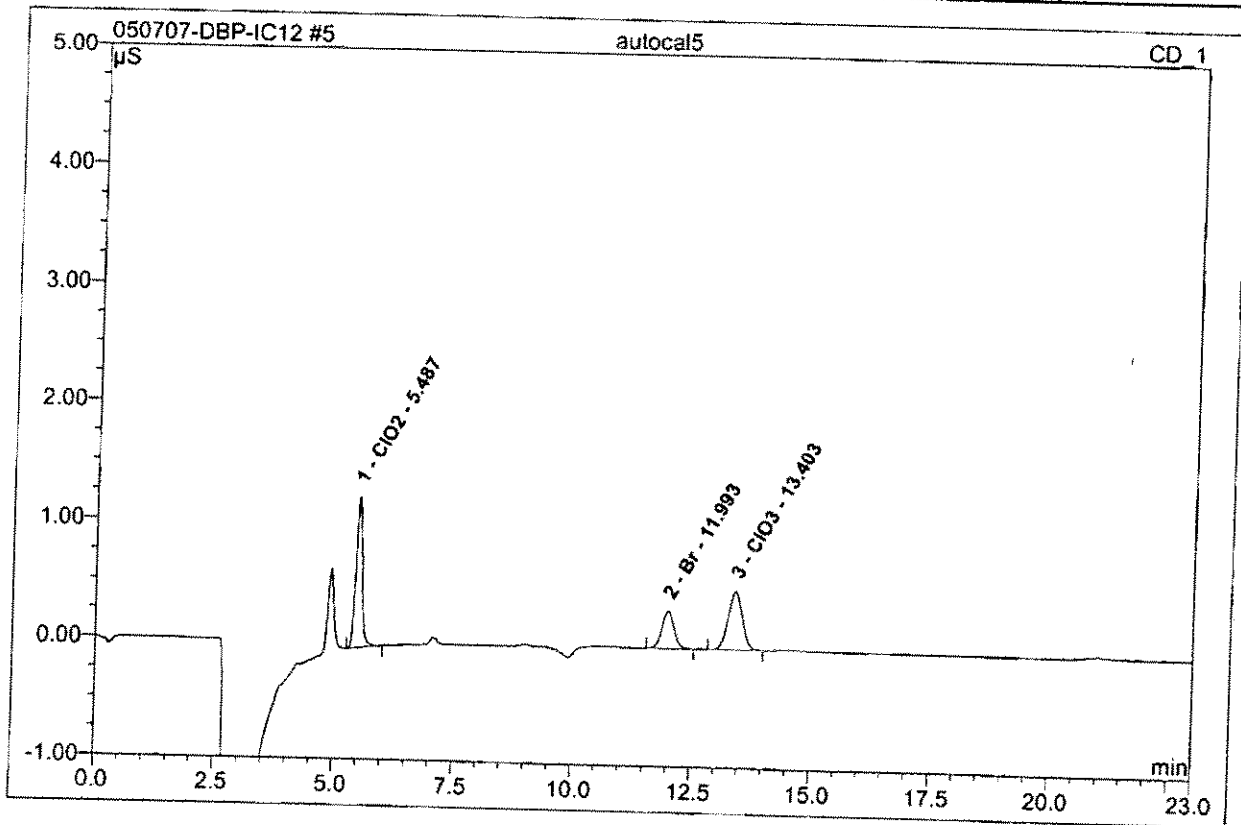
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.49	ClO2	0.126	0.020	29.66	20.367	BMB
2	12.00	Br	0.031	0.009	13.08	9.977	BMB*
3	13.42	ClO3	0.048	0.017	24.43	19.409	BMB*
4	14.51	n.a.	0.062	0.022	32.84	n.a.	BMB*
Total:			0.267	0.068	100.00	49.753	

4 autocal4			
RAJA060520-5			
Sample Name:	autocal4	Injection Volume:	1000.0
Vial Number:	337	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:	5/1/2007 12:10	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



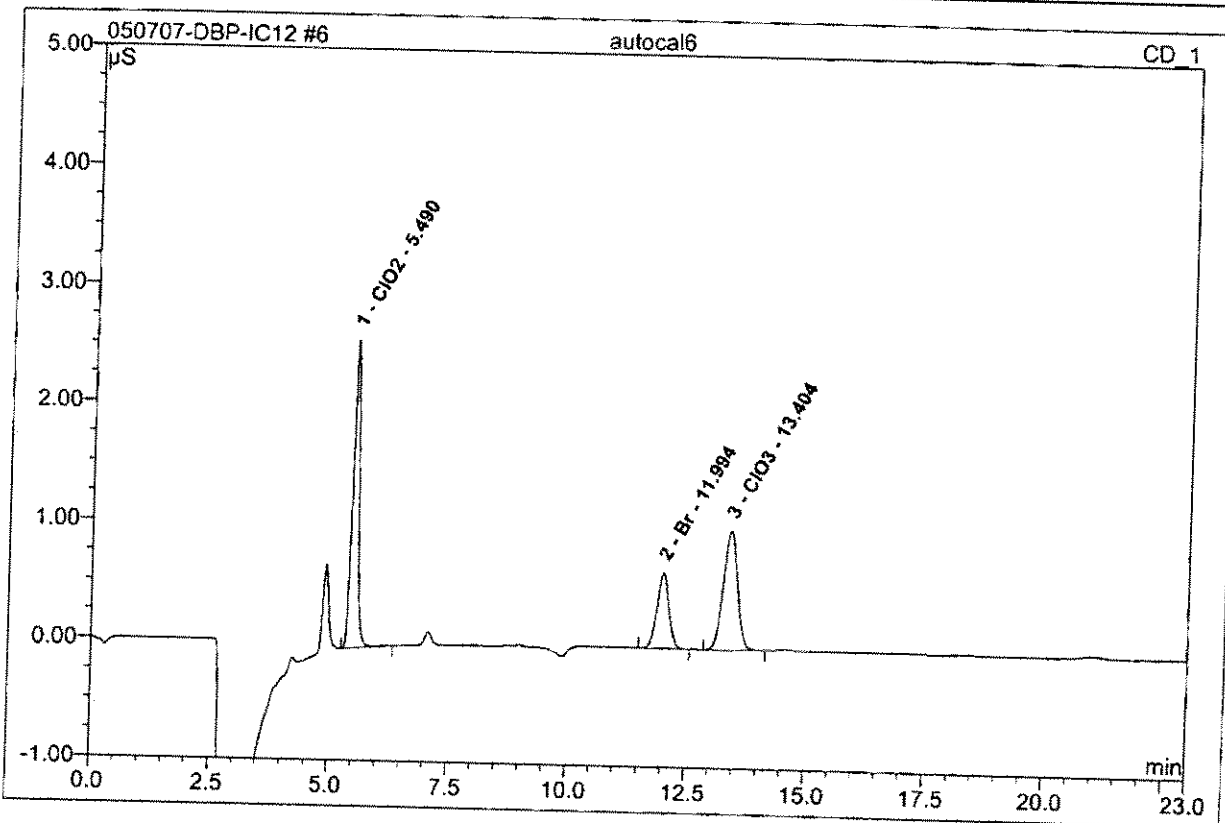
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.49	CIO2	0.628	0.097	42.52	99.774	BMB
2	11.99	Br	0.155	0.045	19.79	49.048	BMB*
3	13.41	CIO3	0.245	0.086	37.69	100.872	BMB*
Total:			1.027	0.228	100.00	249.694	

5 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:	5/1/2007 12:36	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



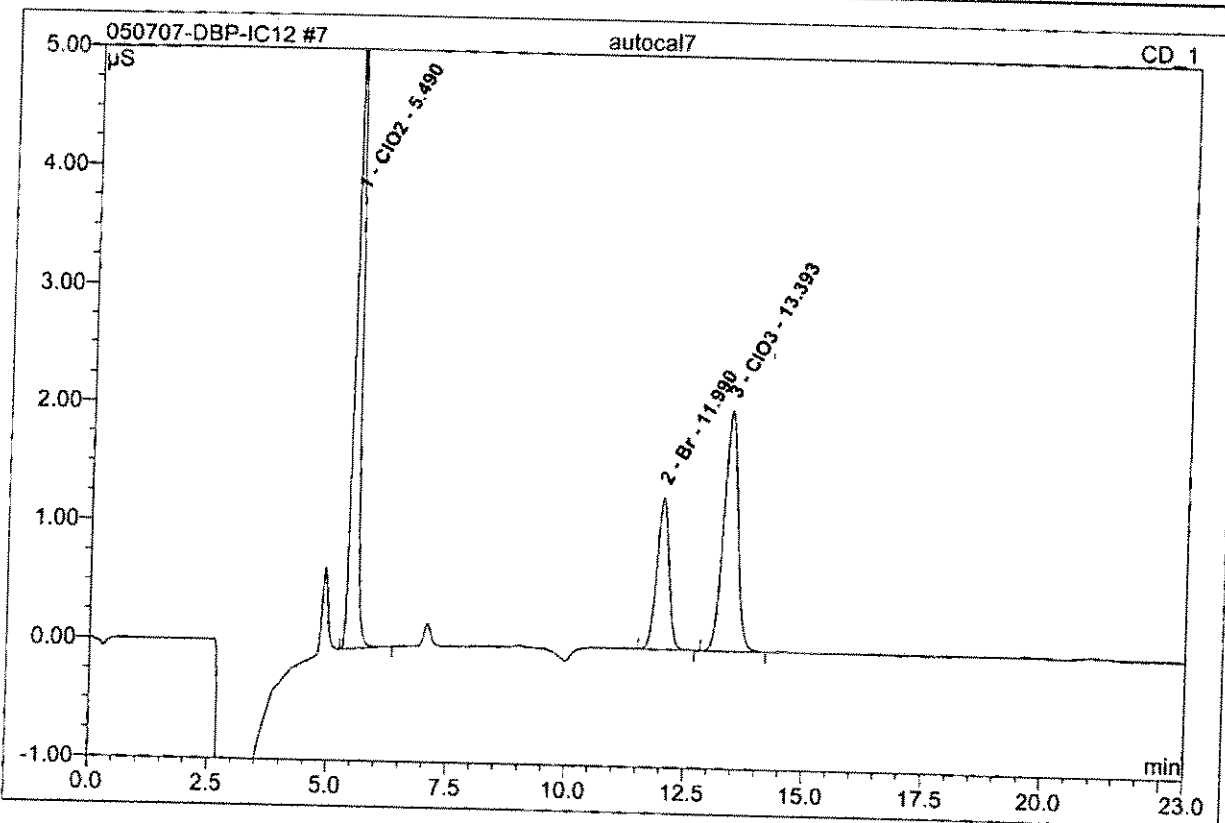
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppb	Type
1	5.49	CIO2	1.273	0.195	42.58	199.693	BMB
2	11.99	Br	0.314	0.092	20.19	99.881	BMB
3	13.40	CIO3	0.495	0.171	37.23	199.588	BMB
Total:			2.082	0.458	100.00	499.163	

6 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:	5/1/2007 13:01	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



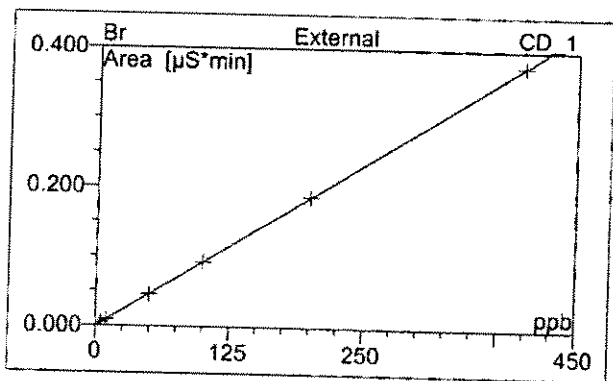
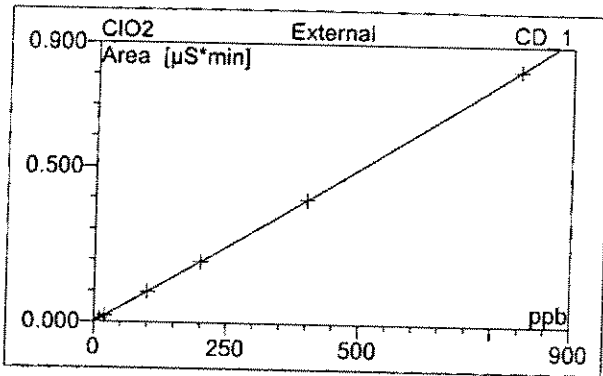
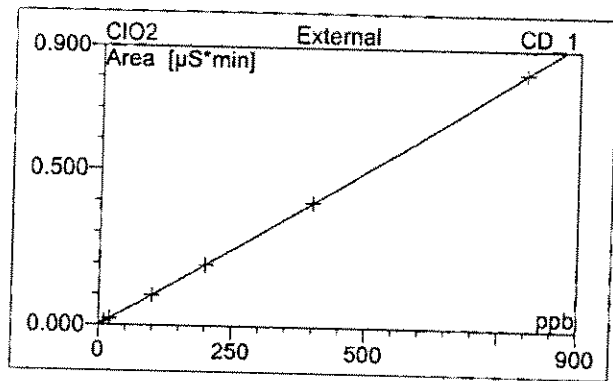
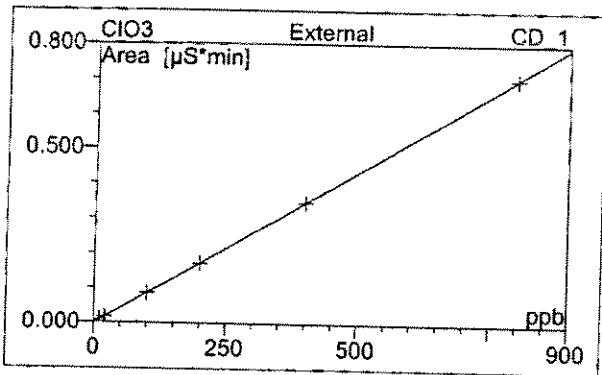
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.49	ClO2	2.606	0.397	42.77	400.286	BMB
2	11.99	Br	0.634	0.187	20.13	200.466	BMB
3	13.40	ClO3	1.002	0.345	37.10	399.981	BMB
Total:			4.242	0.929	100.00	1000.733	

7 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:	5/1/2007 13:26	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



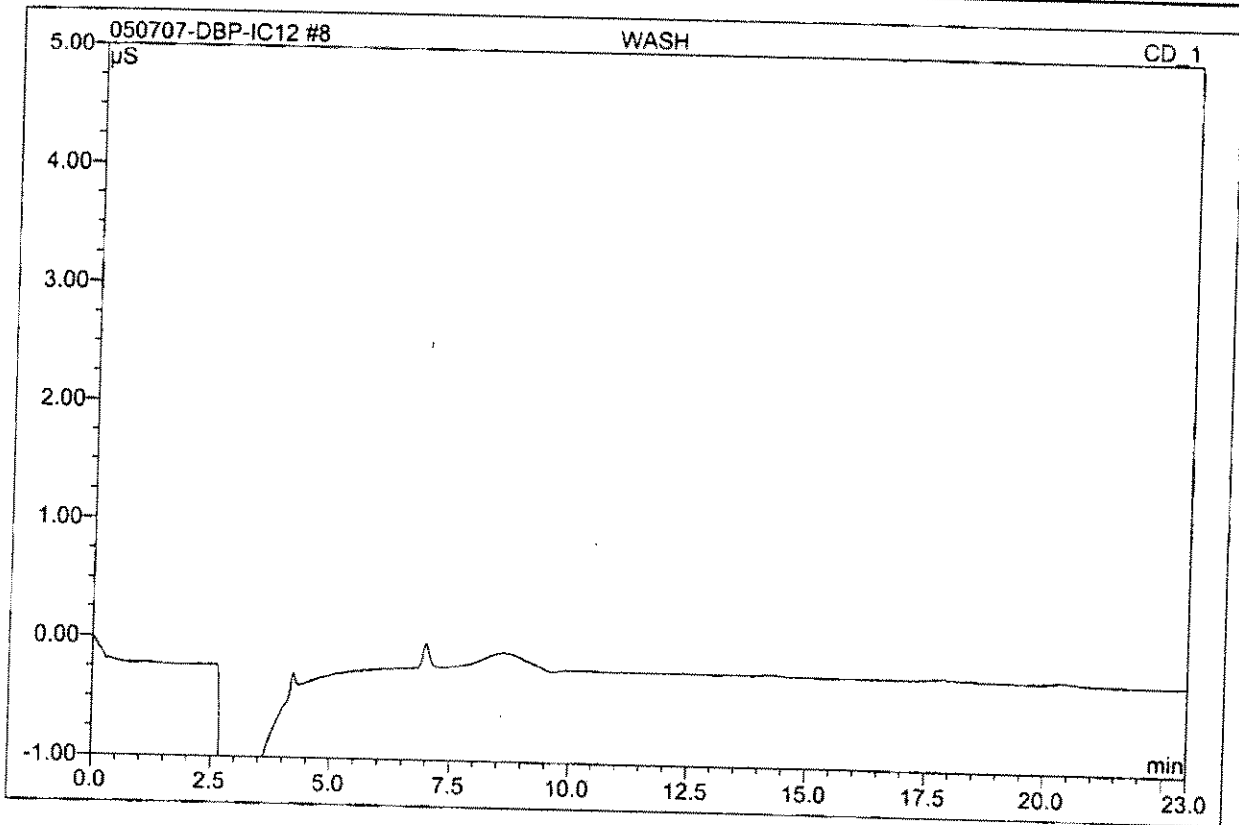
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppb	Type
1	5.49	ClO_2	5.423	0.820	43.22	799.953	BMB
2	11.99	Br	1.278	0.377	19.86	399.907	BMB
3	13.39	ClO_3	2.032	0.701	36.92	800.017	BMB
Total:			8.733	1.898	100.00	1999.877	

7 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: 5/1/2007 13:26	Sample Weight: 1.0000
Run Time (min): 23.00	Sample Amount: 1.0000



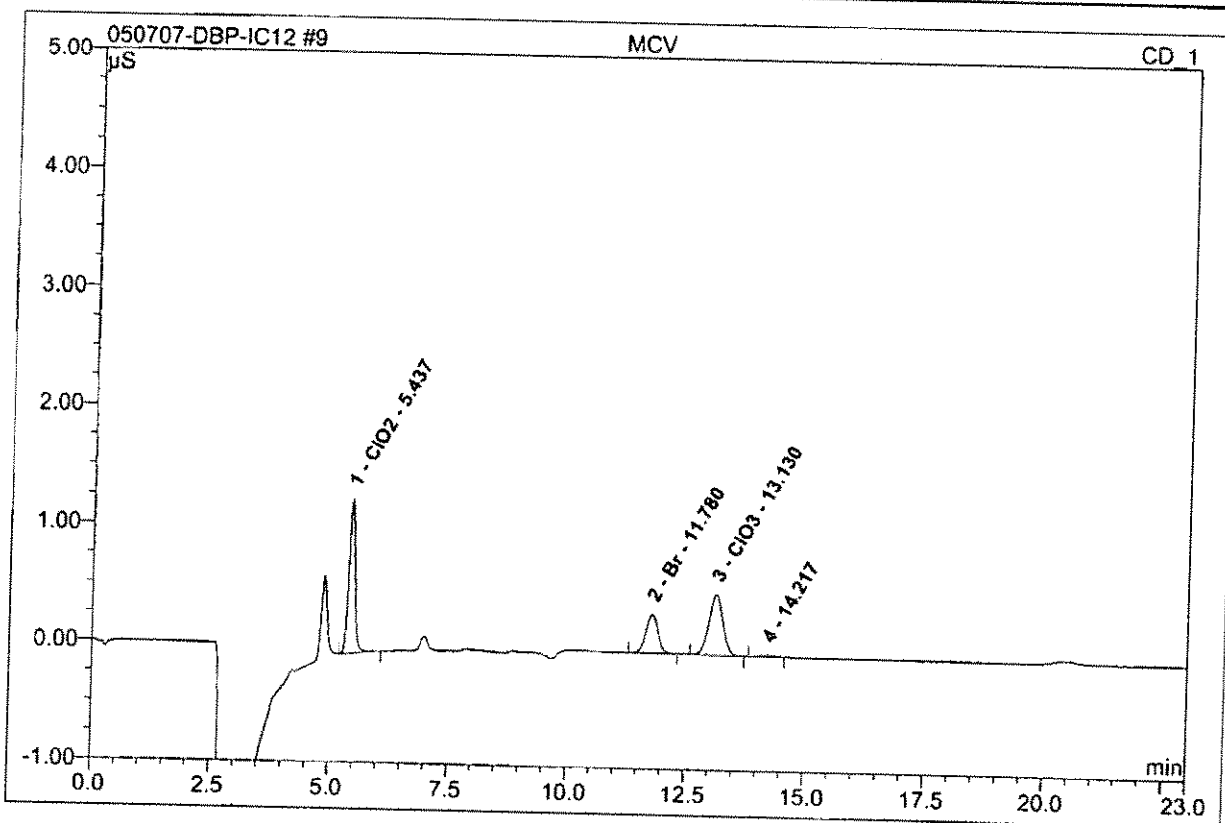
No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	5.49	ClO2	QOff	6	99.9837	0.0005	0.0010	0.0000
2	11.99	Br	QOff	6	99.9979	-0.0004	0.0009	0.0000
3	13.39	ClO3	QOff	6	99.9959	0.0000	0.0008	0.0000
Average:					99.9925	0.0000	0.0009	0.0000

8 WASH			
Sample Name:	WASH	Injection Volume:	1000.0
Vial Number:	335	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:	5/7/2007 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	

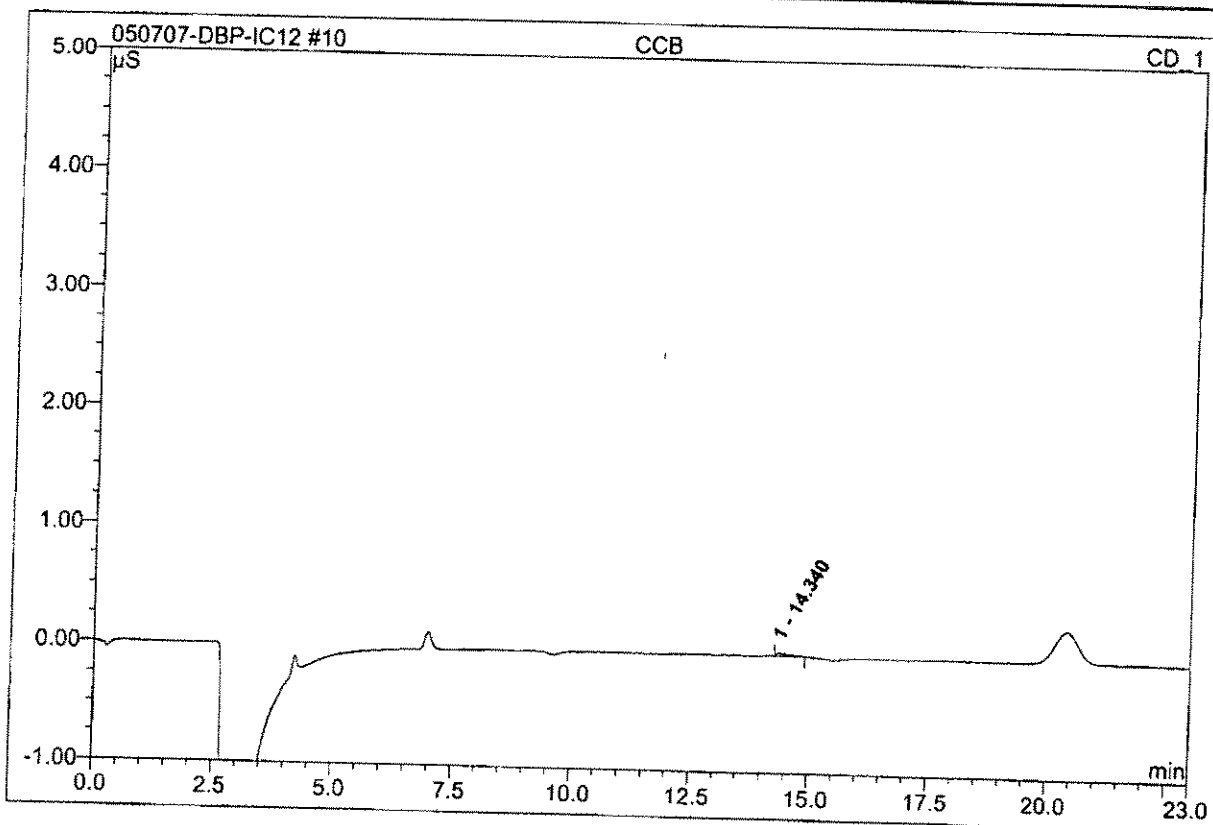
9 MCV			
Sample Name:	MCV	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	5/7/2007 11:30	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.44	ClO2	1.306	0.201	42.15	205.314	BMB
2	11.78	Br	0.327	0.096	20.18	103.732	BMB
3	13.13	ClO3	0.512	0.174	36.59	203.739	BMB
4	14.22	n.a.	0.015	0.005	1.08	n.a.	BMB
Total:			2.159	0.476	100.00	512.784	

10 CCB

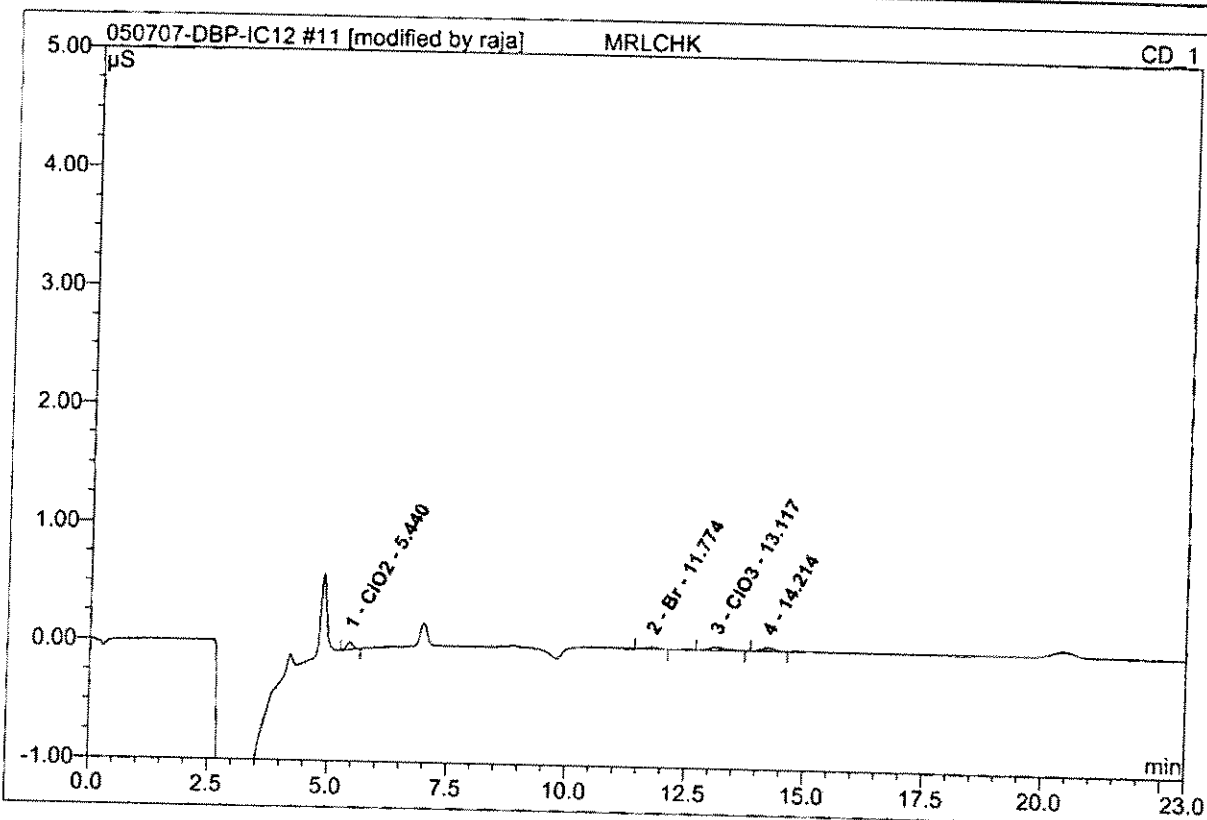
Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	5/7/2007 11:56	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	14.34	n.a.	0.026	0.006	100.00	n.a.	BMB
Total:			0.026	0.006	100.00	0.000	

11 MRLCHK

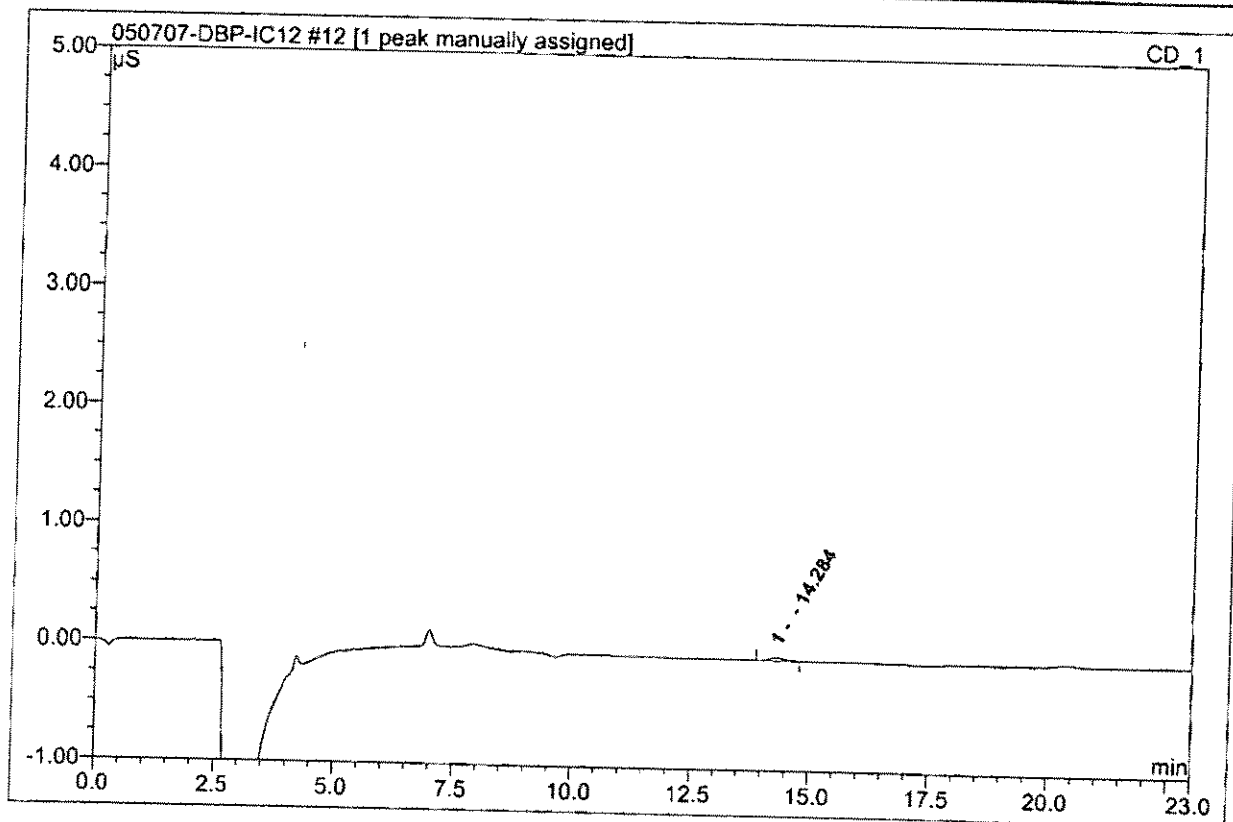
Sample Name:	MRLCHK	Injection Volume:	1000.0
Vial Number:	336	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	5/7/2007 12:21	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.44	ClO2	0.062	0.009	27.10	9.089	BMB
2	11.77	Br	0.016	0.005	13.58	5.424	BMB*
3	13.12	ClO3	0.026	0.010	30.20	12.060	BMB
4	14.21	n.a.	0.029	0.010	29.12	n.a.	BMB
Total:			0.133	0.034	100.00	26.573	

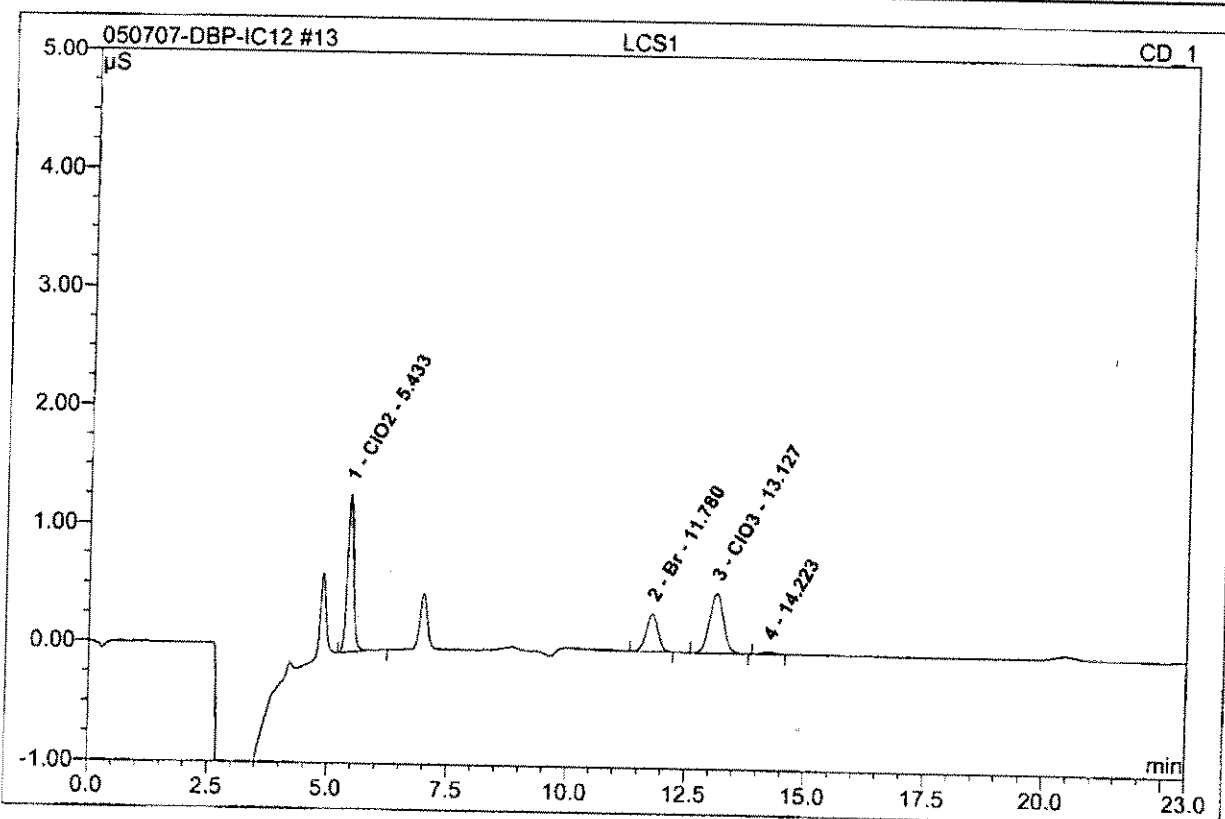
12 MBLK

Sample Name:	MBLK	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:	5/7/2007 12:47	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



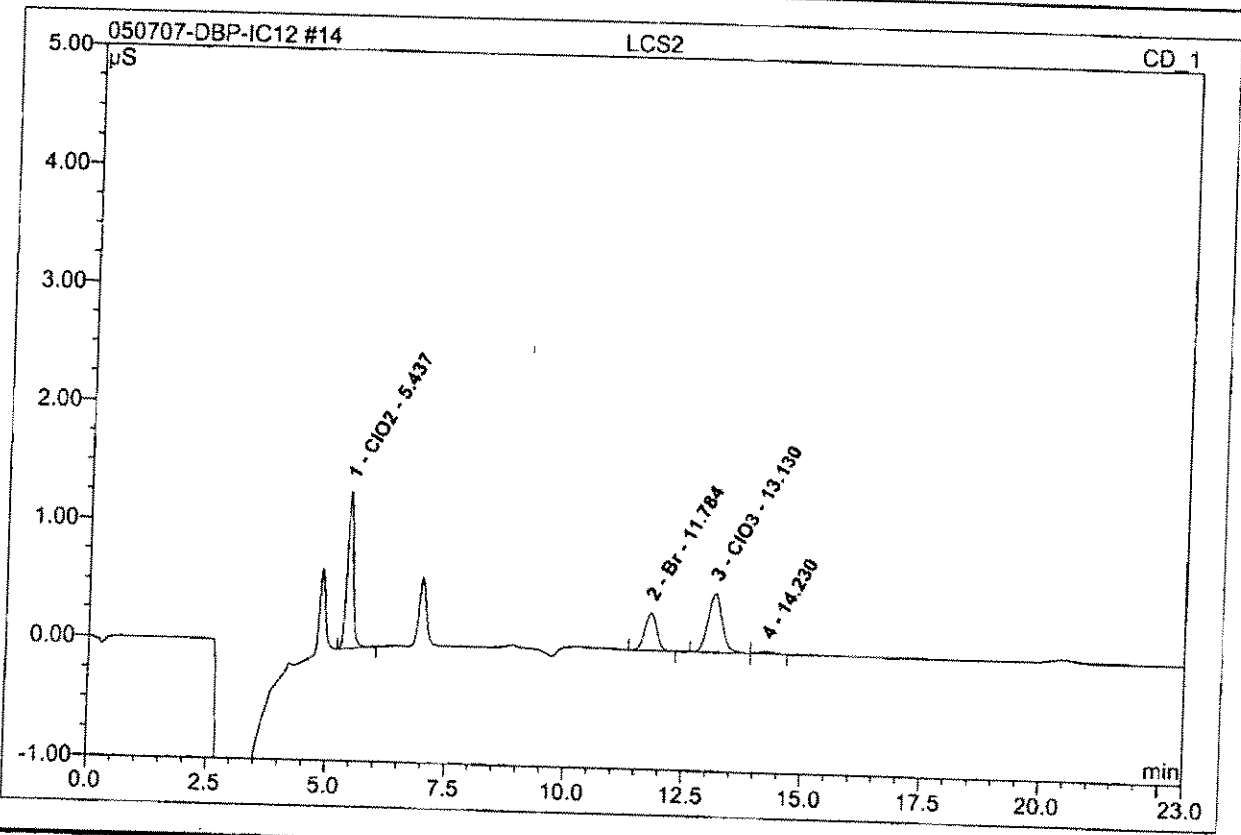
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	14.28		0.027	0.009	100.00	n.a.	BMB^
Total:			0.027	0.009	100.00	0.000	

13 LCS1			
Sample Name:	LCS1	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:	5/7/2007 13:12	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



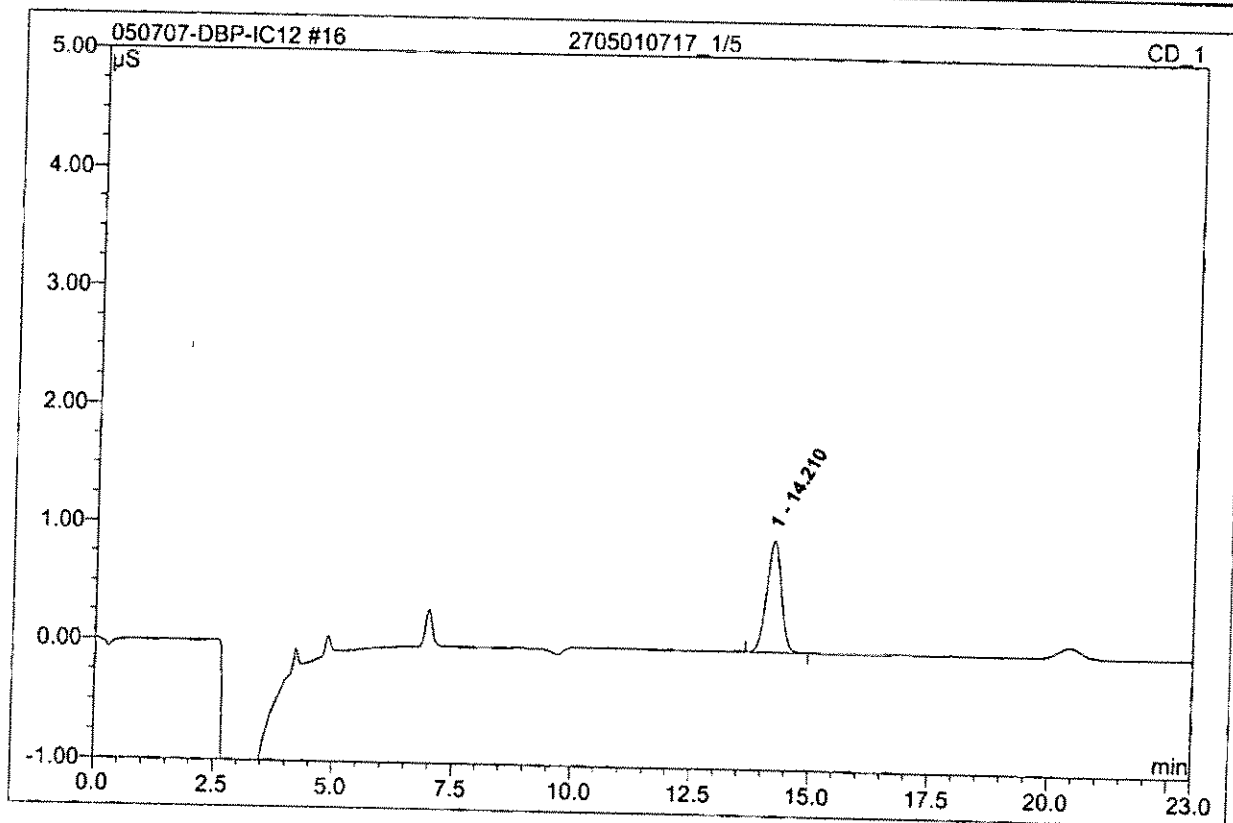
No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount ppb	Type
1	5.43	ClO ₂	1.337	0.205	43.19	209.934	BMB
2	11.78	Br	0.320	0.093	19.58	100.448	BMB
3	13.13	ClO ₃	0.503	0.172	36.12	200.775	BMB
4	14.22	n.a.	0.016	0.005	1.11	n.a.	BMB
Total:			2.176	0.475	100.00	511.157	

14 LCS2			
Sample Name:	LCS2	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:	5/7/2007 13:37	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount ppb	Type
1	5.44	ClO2	1.325	0.202	42.52	206.709	BMB
2	11.78	Br	0.317	0.092	19.47	99.893	BMB
3	13.13	ClO3	0.498	0.174	36.61	203.489	BM
4	14.23	n.a.	0.020	0.007	1.40	n.a.	MB
Total:			2.161	0.475	100.00	510.092	

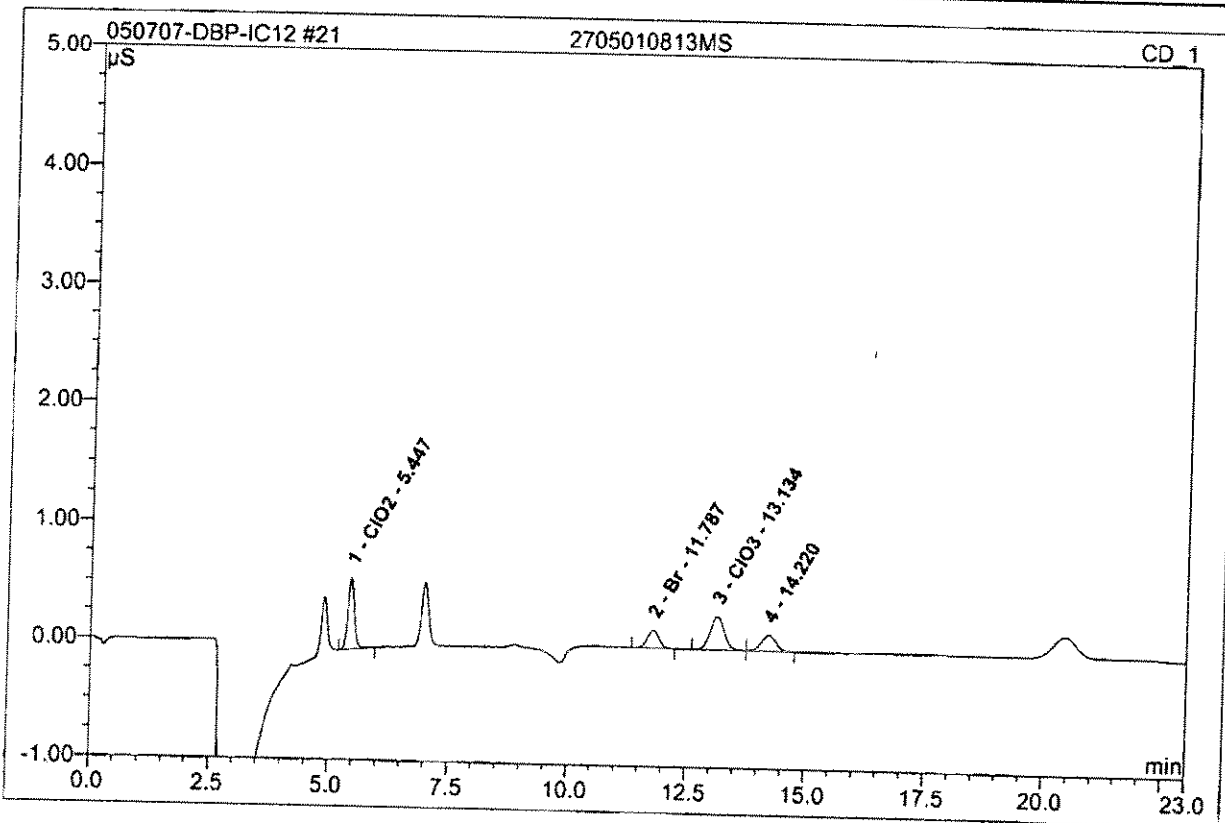
16 2705010717_1/5			
CLO39056			
Sample Name:	2705010717_1/5	Injection Volume:	1000.0
Vial Number:	523	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	5.0000
Recording Time:	5/7/2007 14:28	Sample Weight:	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	14.21	n.a.	0.943	0.339	100.00	n.a.	BMB
Total:			0.943	0.339	100.00	0.000	

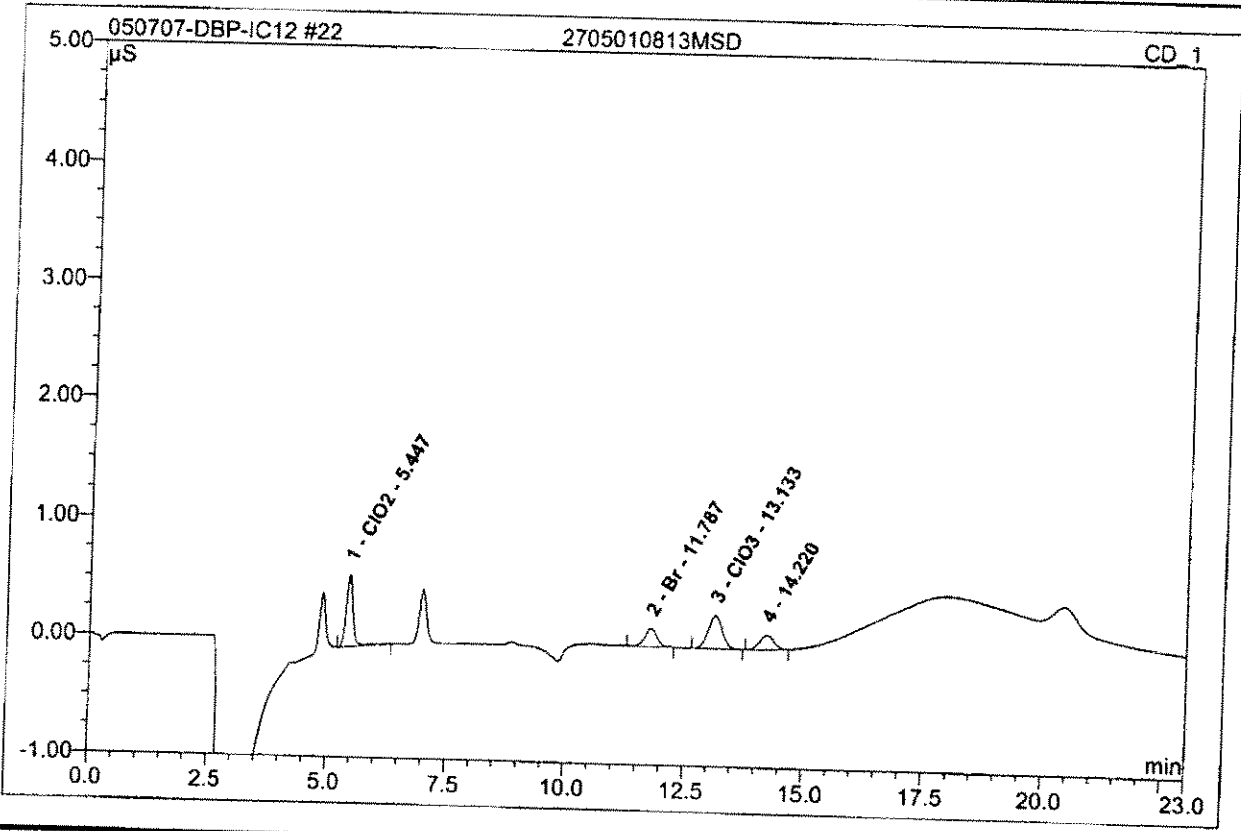
21 2705010813MS

Sample Name:	2705010813MS	Injection Volume:	1000.0
Vial Number:	578	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:	5/7/2007 16:35	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



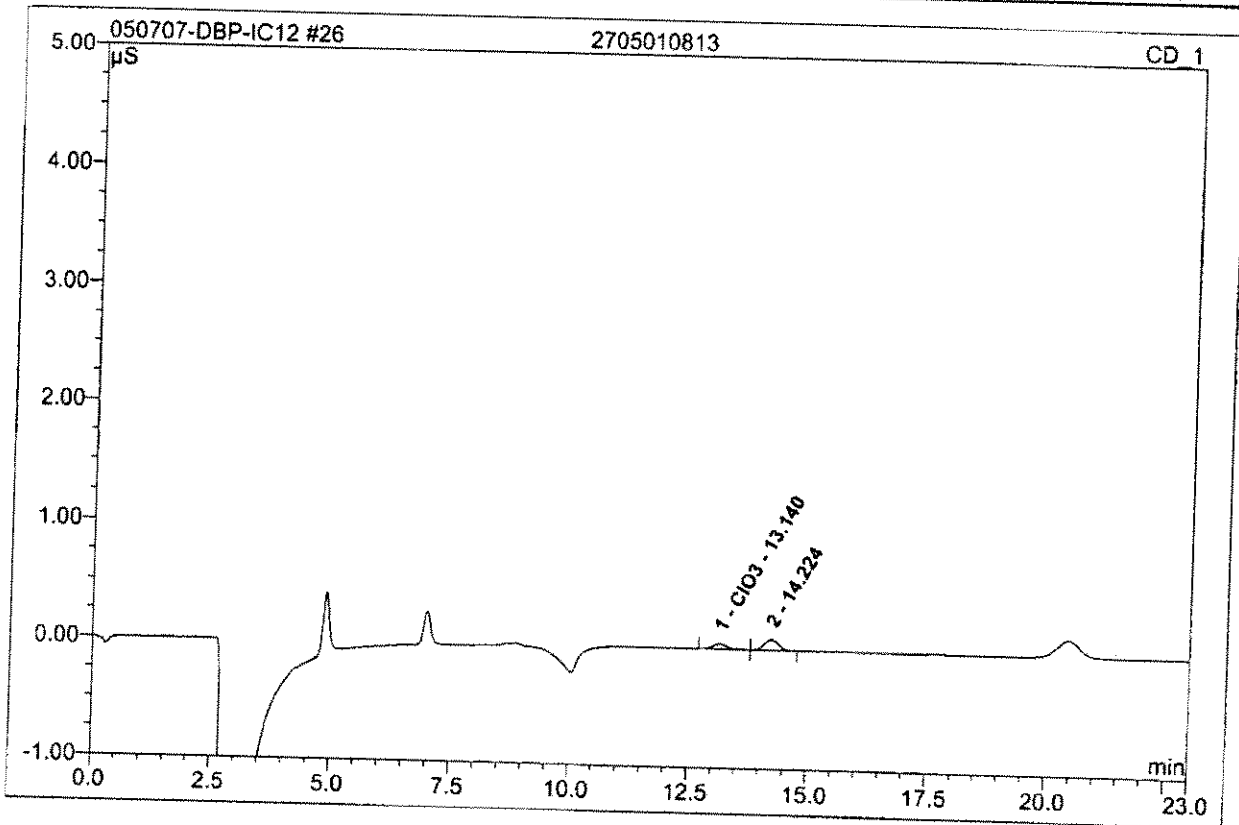
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.45	ClO2	0.610	0.096	33.47	98.716	BMB
2	11.79	Br	0.152	0.044	15.37	47.868	BMB
3	13.13	ClO3	0.281	0.098	34.08	114.560	BM
4	14.22	n.a.	0.135	0.049	17.09	n.a.	MB
Total:			1.177	0.286	100.00	261.144	

22 2705010813MSD			
Sample Name:	2705010813MSD	Injection Volume:	1000.0
Vial Number:	579	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:	5/7/2007 17:00	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



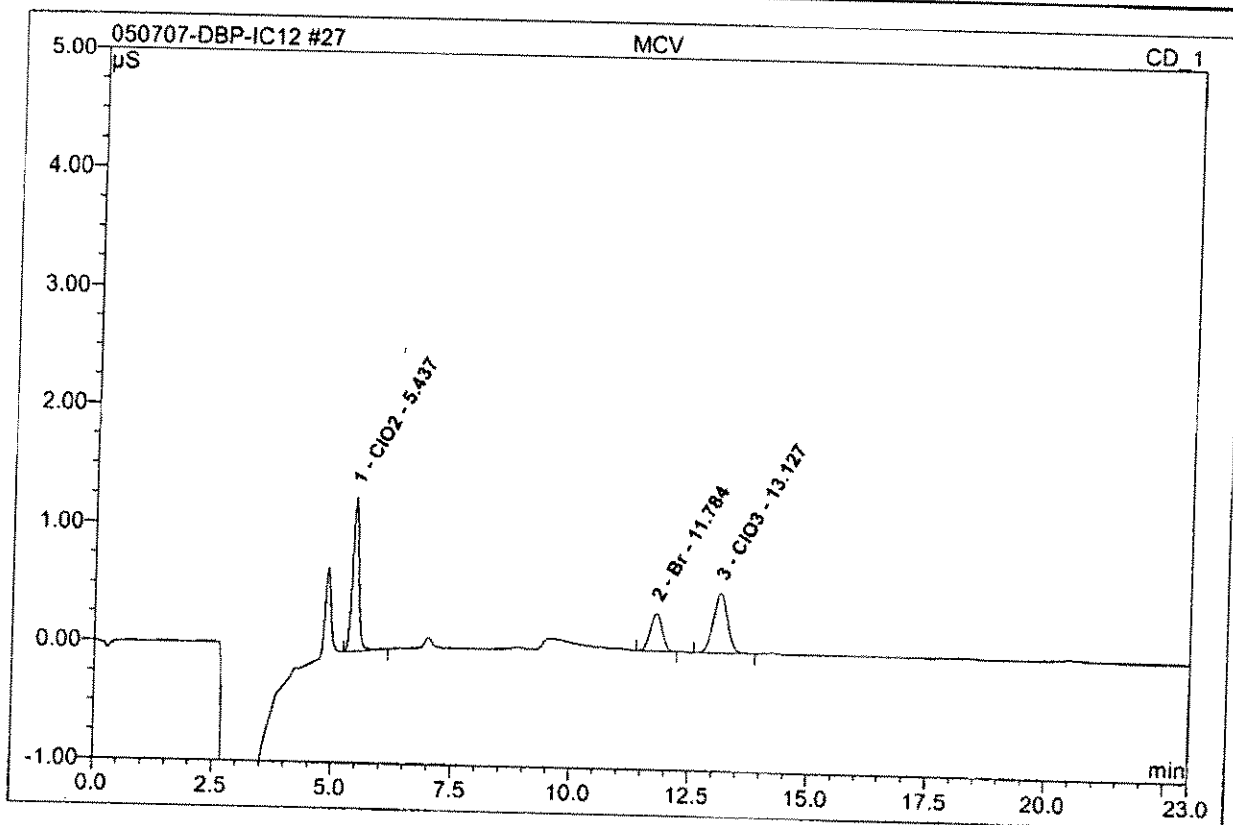
No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount ppb	Type
1	5.45	ClO2	0.610	0.099	35.46	101.514	BMB
2	11.79	Br	0.150	0.043	15.64	47.312	BMB
3	13.13	ClO3	0.279	0.095	34.03	111.085	BMB
4	14.22	n.a.	0.119	0.041	14.87	n.a.	BMB
Total:			1.158	0.278	100.00	259.910	

26 2705010813			
CLO39056/RERUN			
Sample Name:	2705010813	Injection Volume:	1000.0
Vial Number:	584	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:	5/7/2007 18:42	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount ppb	Type
1	13.14	ClO3	0.042	0.016	32.32	18.305	BM
2	14.22	n.a.	0.090	0.033	67.68	n.a.	MB
Total:			0.132	0.048	100.00	18.305	

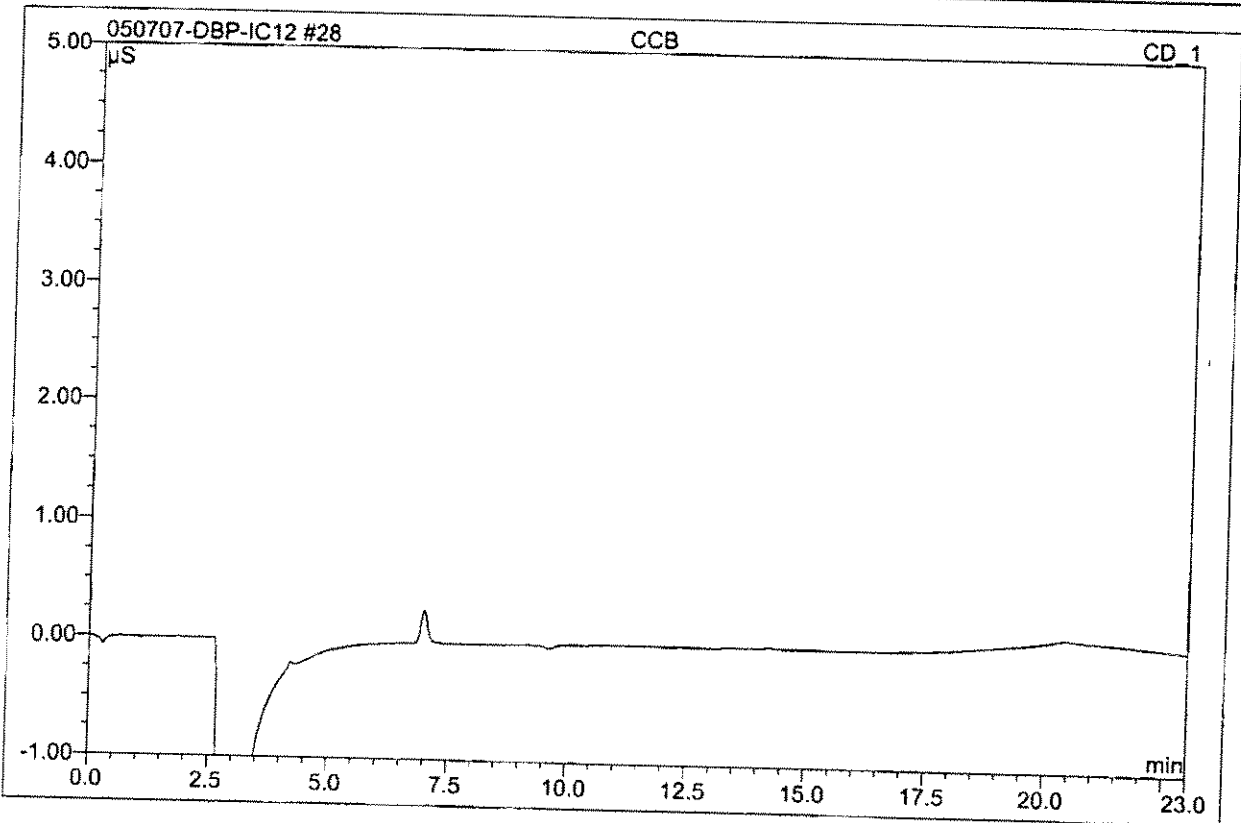
27 MCV			
Sample Name:	MCV	Injection Volume:	1000.0
Vial Number:	585	Channel:	CD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	IC12 test Program	Bandwidth:	n.a.
Quantif. Method:	DBP-Method	Dilution Factor:	1.0000
Recording Time:	5/7/2007 19:07	Sample Weight:	1.0000
Run Time (min):	23.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	5.44	CIO2	1.298	0.198	42.65	203.076	BMB
2	11.78	Br	0.317	0.091	19.65	98.747	BMB
3	13.13	CIO3	0.509	0.175	37.69	205.113	BMB
Total:			2.124	0.465	100.00	506.935	

28 CCB

Sample Name:	CCB	Injection Volume:	1000.0
Vial Number:	586	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:	5/7/2007 19:33	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

Reagent: DBP Calibration stock ^{RR} solution
 Date Received/Prepped: 052006/1060606/1062206/1071306/1072506/1080806
 Date Expired: 062006/1060606/1071306/1072506/1080806
 Manufacturer: Raja
 Storage Condition: _____

MW #: Raja 060520-2
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
Bromide 100ppm Exp: 06/07	500 ML ? add 50 ML EDA solution (LMR 060129-12) then	R 201373 ✓	5ppm
Chlorate 100ppm Exp: 06/07	1000 ML dilute to 100ml with D.I water	R 201374 ✓	10ppm
Chlorite 100ppm Exp: 06/07	1000 ML	R 201375 ✓	10ppm

Comment: 082706/100106/110106/111606/112206/1010807/1020607/
Exp: 092706/110106/1120106/1121606/1012007/1020807/1030607/
110106 Raja 120106

Reagent: DBP Calibration standard #1
 Date Received/Prepped: 052006/1060606/1062206/1071306/1072506/1080806
 Date Expired: 062006/1070606/1072206/1081306/1082506/1090806
 Manufacturer: _____
 Storage Condition: _____

MW #: Raja 060520-3
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
DBP calib. stock soln	100 ML ? Dilute with D.I. water to 100ml	Raja 060520-2	Br- 5ppb
EDA solution	50 ML	LMR 060129-12	ClO ₂ - 10ppb ClO ₃ - 10ppb

Comment: Used as MBL-check Prep: 082706/100106/110106/111606/112206/101080
Exp: 092706/110106/1120106/1121606/1012007/1020807/

Reagent: DBP Calibration Standard #2
 Date Received/Prepped: 052006/1060606/1062206/1071306/1072506/1080806
 Date Expired: 062006/1070606/1072206/1081306/1082506/1090806
 Manufacturer: Raja
 Storage Condition: _____

MW #: Raja 060520-4
 By: Raja
 Matrix: ag
 Amount: 100ml
 Lot #: _____

Component	Comment	Standard	Concentration
DBP calib. stock soln	200 ML ? Dilute with D.I. water to 100ml	Raja 060520-2	Br- 10ppb
EDA solution	50 ML	LMR 060129-12	Br ClO ₂ - 20ppb ClO ₃ - 20ppb

Comment: Prep: 082706/100106/110106/111606/112206/1010807/1020607/
Exp: 092706/110106/1120106/1121606/1012007/1020807/1030607/
110106

Reagent Preparation Documentation

Reagent: DBP Calibration Standard #3
Date Received/Prepped: 052006/060606/062206/071306/072506/080806
Date Expired: 062006/070606/072206/081306/082506/090806
Manufacturer: _____
Storage Condition: _____

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

Component	Comment	Standard	Concentration
DBP calibr stock soln	1ml of Dilute with D.I water to 100ml	Raja060520-2	Br-50ppb
EDA solution	50ML	LMR060129-12	ClO ₂ -100ppb ClO ₃ -100ppb

Comment: Prep:- 082706/100106/110406/110106/111606/122006/010807/020607/
 Exp:- 092706/110106/120406/120106/121606/012007/020807/030607/

Reagent: DBP Calibration Standard #4
Date Received/Prepped: 052006/060606/062206/071306/072506/080806
Date Expired: 062006/070606/072206/081306/082506/090806
Manufacturer: _____
Storage Condition: _____

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

Component	Comment	Standard	Concentration
DBP calibr stock soln	2ml of Dilute with D.I water to 100ml	Raja060520-2	Br-100ppb
EDA solution	50ML	LMR060129-12	ClO ₂ 200ppb 200 ClO ₃ 200ppb Raja

Comment: It is also used as MCV Prep:- 082706/100106/110406/110106/111606/122006
 Exp:- 092706/110106/120406/120106/121606/012007

Reagent: DBP Calibration Standard #5
Date Received/Prepped: 052006/060606/062206/071306/072506/080806
Date Expired: 062006/070606/072206/081306/082506/090806
Manufacturer: _____
Storage Condition: _____

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

Component	Comment	Standard	Concentration
DBP calibr stock soln	4ml of Dilute to 100ml with D.I. water	Raja060520-2	Br-200ppb
EDA solution	50ML	LMR060129-12	ClO ₂ -400ppb ClO ₃ -400ppb

Comment: Prep:- 082706/100106/110406/110106/111606/122006/010807/020607
 Exp:- 092706/110106/120406/120106/121606/012007/020807/030607

Reagent Preparation Documentation

Reagent: DBP Calibration Standard #6
Date Received/Prepped: 052006/060606/062206/071306/072506/080806
Date Expired: 062006/070606/072206/081306/082506/090806
Manufacturer: _____
Storage Condition: _____

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

Component	Comment	Standard	Concentration
DBP calib stock soln	8ml ? Dilute to 100ml with D.I. water	Raja060520-2	Br-400ppb
EDA	50ml	LMR060129-12	ClO ₂ -800ppb
			ClO ₃ -800ppb

Comment: Used as HCV Prep:- 082706 / 100106 / 110406 / 110106 / 111606 / 122006 / 1010807 / 1020607
Exp:- 092706 / 110106 / 120406 / 120106 / 121606 / 012007 / 020807 / 030607

Reagent: IPCCV Solution for ClO₄ 25ppb
Date Received/Prepped: 062406/071206/072206/080706/ 1
Date Expired: 092406/101206/102206/110706/ 1
Manufacturer: _____
Storage Condition: _____

MW #: Raja060624-1
By: Raja
Matrix: ag
Amount: 100ml
Lot #: _____

Component	Comment	Standard	Concentration
Na ₂ CO ₃ 10,000ppm	4ml ?	LYL050510-06	400ppm
NaCl 10,000ppm	4ml Dilute to 100ml with D.I. water	LYL050510-04	400ppm
Na ₂ SO ₄ 10,000ppm	4ml	LYL050510-05	400ppm
ClO ₄ calib stock	2.5ml		25ppb

Comment: _____

Reagent: Na₂SO₄ Solution - ClO₄
Date Received/Prepped: 081406/110906/101107/032307/052107/
Date Expired: 111406/100907/104107/062307/082107/
Manufacturer: _____
Storage Condition: _____

MW #: Raja060814-1
By: Raja
Matrix: ag
Amount: 100ml
Lot #: _____

Component	Comment	Standard	Concentration
Na ₂ SO ₄	1.48g → Dilute to 100ml with D.I. water	R200651	10,000ppm
exp:- 03/08			

Comment: _____

Reagent Preparation Documentation

Reagent: 3001 Multi-element Calibration Std - 7
Date Received/Prepped: 29 Jan 06 / 19 Feb 06 / 15 Apr 06 / 16 Mar 06 / 12 Apr 06 / 1 May 06
Date Expired: / / / / /
Manufacturer: _____
Storage Condition: _____

MW #: LMR060129-11
By: LMR
Matrix: ng
Amount: 100ml
Lot #: -

Component	Comment	Standard	Concentration
BrO ₃ - 1000 ppb	5000 µl	LMR050109-3	50
ClO ₂ , ClO ₂ - 10 ppm	2000 µl	LMR050895-1	200 ea
Arsen Cal Mix	2000 µl	LMR060129-4	200-2000 ng, 2000 µg, 2000 µg, 2000 µg
EDA - 100000 ppm	50 µl	LMR060129-12	50 ppm

Combine and dilute to 100ml w/ DI H₂O

Comment:

Reagent: Ethylenediamine - 100,000 ppm (EDA)
Date Received/Prepped: 29 Jan 06 / 10 Jul 06 / / / /
Date Expired: / / / / /
Manufacturer: _____
Storage Condition: _____

MW #: LMR060129-12
By: LMR
Matrix: ng
Amount: 100ml
Lot #: -

Component	Comment	Standard	Concentration
Ethylenediamine	11.2 ml diluted to 100ml w/ DI H ₂ O	R200653	100,000 ppm
	use 50 µl per 100ml		

Comment:

Reagent: BrO₃ Color Reagent
Date Received/Prepped: 1/29/06 / 2/2/06 / 2/14/06 / 2/14/06 / 2/20/06 / 2/24/06 / 3/1/06
Date Expired: / / / / /
Manufacturer: _____
Storage Condition: _____

MW #: LMR060129-13
By: LMR
Matrix: ng
Amount: 2-L
Lot #: -

Component	Comment	Standard	Concentration
o-dianisidine (ODA)	1g dissolved in 400ml HPLC/pur grade Methanol	R201258	
KBr	10g dissolved in ~1.4L H ₂ O (DI)	R201284	
Ultrap HNO ₃	160 ml	R201319	
		R201320 (2/8 - 3/14/06), 3/19/06, 3/14/06, 3/20/06	
		R201324 (1/19/06, 2/1/06, 2/7/06, 2/14/06, 2/20/06, 2/24/06, 3/1/06, 3/14/06, 3/20/06)	
		R201393 (1/12/06, 2/1/06, 2/7/06, 2/14/06, 2/20/06, 2/24/06, 3/1/06, 3/14/06)	

Comment: Add ODA to MeOH and dissolve. Using a 2-L vol flask dissolve KBr in DI H₂O. Add HNO₃ to KBr solution. Add ODA to KBr/HNO₃ soln and bring to mark w/ DI H₂O. Soln must be clear. 30 min. Soln must stand minimum 16 hrs before using. Best to stand overnight.



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Lakewood, New Jersey 08701 - USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

R # 201375

tel: 800.669.6799 - 732.901.1900
fax: 732.901.1903
info@inorganicventures.com

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:

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

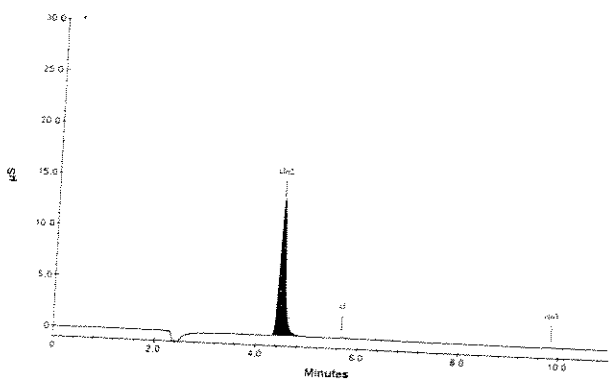
$$\text{Uncertainty } (\pm) = \frac{2[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$$

(\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

81 Quality Assurance Manager

Expires: **EXPIRES**
1#2007

QUALITY STANDARD DOCUMENTATION

1. ISO 9001 QMI Registered Quality System (Certificate Number 010105)

Members of IQ Net : 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)



2. ISO/IEC 17025-1999 - Chemical Testing - Accredited A2LA (Certificate Number 883.01)
3. ISO/IEC Guide 34-2000 - Reference Materials Production - Accredited A2LA (Certificate Number 883.02)
4. 10CFR50 Appendix B
5. 10CFR21

Please contact our Quality Assurance Department for further information and copies of documents pertaining to our Quality Standard certifications.

STABILITY/ EXPIRATION DOCUMENTATION

Shelf Life -

The length of time that a properly stored and packaged standard will remain within the specified uncertainty. Shelf life is affected by chemical stability and transpiration issues. Inorganic Ventures' Standard Solutions are chemically stable indefinitely. Transpiration loss is linear with time and limits the time a standard can be used with confidence. The smaller the bottle the higher the rate of transpiration. Inorganic Ventures' studies indicate that the shelf life of our 500 mL bottle is 4 years and the shelf life of our 125 mL bottle is 21 months.

Expiration Date -

The date after which a standard solution should not be used. A one year expiration date is recommended by most state and federal regulatory agencies. Transpiration issues and repeated use of solutions over a one year period may adversely affect the integrity of the standard.

PACKAGING DOCUMENTATION

Purified acid, 18 megohm double deionized water that has been filtered through a 0.2 μ m filter and in-house procedure IV-PACK-001 is used to clean all bottles. Contact us for technical information relating to contamination issues in packaging materials.

GLASSWARE CALIBRATION

In-house procedure 3-QC-002 is used to calibrate all Class A Glassware used in the manufacture and quality control of Custom Grade Standards.

BALANCE CALIBRATION

All balances are checked daily using in-house procedure number 6-IMM-001. The weights used for testing are annually compared to Gerhart Scale Corporation's master weights and are traceable to the National Institute of Standards and Technology (NIST). The NIST Traceability numbers are 428359B and 454678. The NIST test number is 822/260017-98.

All analytical balances are calibrated every 4 months by Gerhart Scale Corp. of South Amboy. The balances are calibrated with a class 1 analytical weight set. These weights are tested annually by a NIST / NVLAP accredited calibration lab. The NIST test number is 822/260017-8.

THERMOMETER CALIBRATION

The thermometers used in the determination of the final densities are calibrated vs standard thermometer No. 903-2680 which was certified in accordance with the procedures outlined by ASTM E77-87 and NIST Monograph 150 using NIST Test Nos. and Std Nos.: 769543, 217368/769543, 217368/P14452, 176240/P14452, 176240. The in-house procedure No. is 2-QC-001. Thermometers which are not calibrated vs standard thermometer No. 903-2680 are traceable to NIST Identification Nos. 92564, 119016, 471047 and NIST test report Nos. 811/258522, 811/2557078, and 236090.

TECHNICAL SUPPORT

All customers are encouraged to contact us for technical support for the proper use of our products.

TEL 1-800-569-6799

FAX 1-732-901-1903

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EMAIL IVtech@ivstandards.com

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

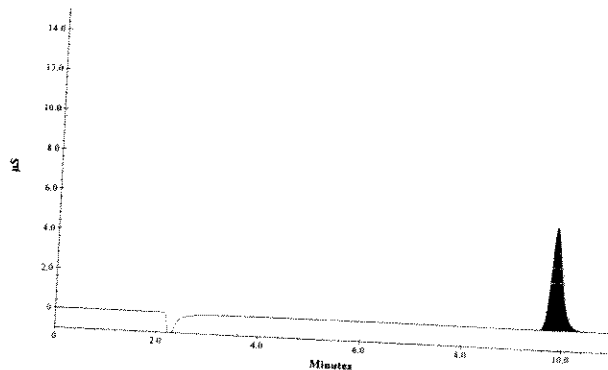
Method: Calculated, based on starting material.

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. 082405entm



 Expires: **EXPIRES**

12 2007

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Quality Assurance Manager

QUALITY STANDARD DOCUMENTATION

1. ISO 9001:2000 QMI Registered Quality System (Certificate Number 010105)
Members of IQ Net : 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)
 2. ISO/IEC Guide 34-2000 "General Requirements for the Competence of Reference Material Producers" - Reference Materials Production - Accredited A2LA Certificate 883.02
 3. ISO/IEC17025-1999 "General Requirements for the Competence of Testing and Calibration" - Chemical Testing - Accredited A2LA Certificate 883.01
 4. MIL-STD-45662A
 5. 10CFR50 Appendix B - Nuclear Regulatory Commission - Domestic Licencing of Production and Utilization Facilities
 6. 10CFR21 - Nuclear Regulatory Commission - Reporting Defects and Non-Compliance
- Please contact our Quality Assurance Department for further information and copies of documents pertaining to our Quality Standard certifications.



STABILITY/ EXPIRATION DOCUMENTATION

Shelf Life -

The length of time that a properly stored and packaged standard will remain within the specified uncertainty. Shelf life is affected by chemical stability and transpiration issues. Inorganic Ventures' Standard Solutions are chemically stable indefinitely. Transpiration loss is linear with time and limits the time a standard can be used with confidence. The smaller the bottle the higher the rate of transpiration. Inorganic Ventures' studies indicate that the shelf life of our 500 mL bottle is 4 years and the shelf life of our 125 mL bottle is 21 months.

Expiration Date -

The date after which a standard solution should not be used. A one year expiration date is recommended by most state and federal regulatory agencies. Transpiration issues and repeated use of solutions over a one year period may adversely affect the integrity of the standard.

PACKAGING DOCUMENTATION

Purified acid, 18 megohm double deionized water that has been filtered through a 0.2 μ m filter and in-house procedure IV-PACK-001 is used to clean all bottles. Contact us for technical information relating to contamination issues in packaging materials.

GLASSWARE CALIBRATION

In-house procedure 3-QC-002 is used to calibrate all Class A Glassware used in the manufacture and quality control of Custom Grade Standards.

BALANCE CALIBRATION

All balances are checked daily using in-house procedure number 6-IMM-001. The weights used for testing are annually compared to Gerhart Scale Corporation's master weights and are traceable to the National Institute of Standards and Technology (NIST). The NIST Traceability numbers are 428359B and 454678. The NIST test number is 822/260017-98.

All analytical balances are calibrated every 4 months by Gerhart Scale Corp. of South Amboy. The balances are calibrated with a class 1 analytical weight set. These weights are tested annually by a NIST / NVLAP accredited calibration lab. The NIST test number is 822/260017-8.

THERMOMETER CALIBRATION

The thermometers used in the determination of the final densities are calibrated vs standard thermometer No. 903-2680 which was certified in accordance with the procedures outlined by ASTM E77-87 and NIST Monograph 150 using NIST Test Nos. and Std Nos.: 769543, 217368/769543, 217368/P14452, 176240/P14452, 176240. The in-house procedure No. is 2-QC-001. Thermometers which are not calibrated vs standard thermometer No. 903-2680 are traceable to NIST Identification Nos. 92564, 119016, 471047 and NIST test report Nos. 811/258522, 811/2557078, and 236090.

TECHNICAL SUPPORT

All customers are encouraged to contact us for technical support for the proper use of our products.

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 Principals."

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 ± 3 µg/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:

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

(\bar{x}) = mean
 x_i = individual results
 n = number of measurements

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

$\sum s_i$ = 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

- 4.2 BALANCE CALIBRATION** - All balances are checked daily using in-house procedure 6-IMM-001. The weights used for testing are annually compared to Gerhart Scale Corporation's master weights and are traceable to the National Institute of Standards and Technology (NIST). The NIST Traceability numbers are 692476 - Class 1 and 692476A - Class 2. The NIST test number is 822/260017-98. All analytical balances are calibrated every 4 months by Gerhart Scale Corp. of South Amboy. The balances are calibrated with a class 1 and/or class 2 analytical weight set. These weights are tested annually by a NIST / NVLAP accredited calibration lab. The NIST test number is 822/260017-98.
- 4.3 THERMOMETER CALIBRATION** - The thermometers used in the determination of the final densities are calibrated vs standard thermometer No. 903-2680 which was certified in accordance with the procedures outlined by ASTM E77-87 and NIST Monograph 150 using NIST Test Nos. and Std Nos.: 769543, 217368/769543, 217368/P14452, 176240/P14452, 176240. The in-house procedure is 2-QC-001. Thermometers which are not calibrated vs standard thermometer No. 903-2680 are traceable to NIST Identification Nos. 92564, 119016, 471047 and NIST test report Nos. 811/258522, 811/2557078, and 236090.
- 4.4 GLASSWARE CALIBRATION** - In-house procedure 3-QC-002 is used to calibrate all Class A Glassware used in the manufacture and quality control of CRM's.

5.0 Chromatogram - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact IV Technical Support

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at $20 \pm 4^{\circ}\text{C}$. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

- Elements Specific Information - For specific information regarding the elements in your blend:
Go on line at www.inorganicventures.com/extras/pertable <<http://www.inorganicventures.com/extras/pertable>> Take advantage of our interactive Periodic Table.
- E-mail Technical Support at ivtech@inorganicventures.com <<mailto:ivtech@inorganicventures.com>> at any time and a technical representative will respond within 24 business hours.
- Call our toll free Technical Support line at (800) 569-6799 or dial (732) 901-1900, Monday through Friday, from 8:00AM to 6:00PM Eastern Standard Time.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure IV-MPM-004 and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION



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 (SIH), 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~~

1/2007

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

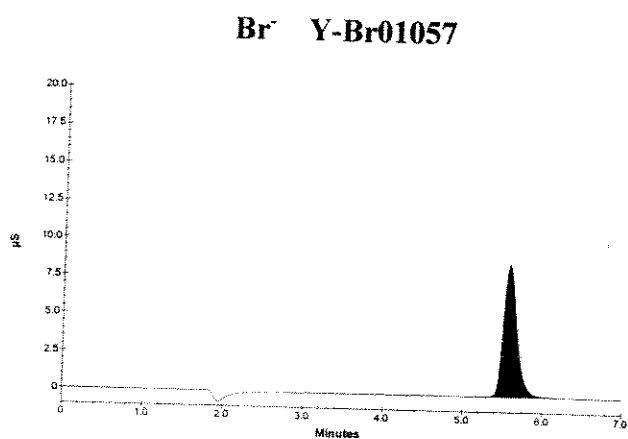
Certificate Prepared By: Nick Maida, QA Administrator

Certificate Approved By: Katalin Le, QC Manager

Certifying Officer: Paul Gaines, PhD., Technical Director

ATTACHMENT 1

CHROMATOGRAM FOR: 1000 $\mu\text{g/mL}$ Bromide Y-BR01057



DIONEX DX-120 Ion Chromatograph
Anal. Column: IonPac AS14 4 x 250 mm
Guard Column: IonPac AG14 4 x 50 mm
Anion Self Regenerating Suppressor:
ASRS-ULTRA II 4mm
Suppressor Current: 100 mA
Eluent: 3.5 mM Na_2CO_3
0.8mM NaHCO_3
Eluent Flow Rate: 1.00 mL/min
Cell Temp.: 35 °C
Scale: Y-axis = 20 μS scale
X-axis = minutes
Concentration: approx. 20 $\mu\text{g/g}$