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Level IV Data Package

MWH Group 209942

Method: EPA 300.1B

2707110558
2707110559

DBP QC Checklist

Analysis Date: 07-11-07 **Analyst:** Raja **QC'd by** MW **Date** 7/16/07

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 N/A CLO3 ✓ BR

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

✓ MCV is analyzed before samples:

✓ CLO2/CLO3: 90-110% (180-220ppb) ✓ BR: 90-110% (90-110ppb)

✓ CCB is analyzed before samples and after MCV and HCV

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

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

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

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

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

✓ CLO2: 180-220ppb for 200ppb

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

✓ BR: 90-110ppb for 100ppb

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

MS/MSD: Acceptance criteria are between 80%-120% recovery.

— CLO2: 80-120ppb for 100ppb spike

N/A CLO3: 80-120ppb for 100ppb spike

✓ BR: 40.0-60.0ppb 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) N/A CLO3 (180-220ppb) ✓ BR (90-110ppb)

✓ HCV recovery is between 90-110%

✓ CLO2 (720-880ppb) N/A CLO3 (720-880ppb) ✓ BR (360-440ppb)

Samples

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

✓ All samples for CLO2are 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

DBP QC Checklist

Analysis Date: 07-12-07 **Analyst:** Raja **QC'd by** MW **Date** 07/19/07

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 ✓ BR

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

✓ MCV is analyzed before samples:

✓ CLO2/CLO3: 90-110% (180-220ppb) ✓ BR: 90-110% (90-110ppb)

✓ CCB is analyzed before samples and after MCV and HCV

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

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

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

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

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

✓ CLO2: 180-220ppb for 200ppb

✓ CLO3: 180-220ppb for 200ppb

✓ BR: 90-110ppb for 100ppb

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

MS/MSD: Acceptance criteria are between 80%-120% recovery.

✓ CLO2: 80-120ppb for 100ppb spike

✓ CLO3: 80-120ppb for 100ppb spike

✓ BR: 40.0-60.0ppb for 50ppb spike

✓ RPD between MS/MSD is within 15%

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

Continuing Calibration Verification (MCV and HCV) are required

✓ MCV recovery is between 90-110%

✓ CLO2 (180-220ppb) ✓ CLO3 (180-220ppb) ✓ BR (90-110ppb)

✓ HCV recovery is between 90-110%

✓ CLO2 (720-880ppb) ✓ CLO3 (720-880ppb) ✓ BR (360-440ppb)

Samples

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

✓ All samples for CLO2are 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 Br CD_1	
1,	wash,		07/11/07 10:25,	1.0,	n.a.	
2,	autocal1,		07/11/07 10:51,	1.0,	n.a.	
3,	autocal2,	RAJA060520-3	07/11/07 11:16,	1.0,	6.1647,	
4,	autocal3,	RAJA060520-4	07/11/07 11:41,	1.0,	34.5446,	
5,	autocal4,	RAJA060520-5	07/11/07 12:07,	1.0,	47.7756,	
6,	autocal5,	RAJA060520-6	07/11/07 12:32,	1.0,	100.6212,	
7,	autocal6,	RAJA060520-7	07/11/07 12:58,	1.0,	200.4271,	
8,	autocal7,	RAJA060520-8	07/11/07 13:23,	1.0,	399.8914,	
9,	autocal3,	RAJA060520-4	07/11/07 14:17,	1.0,	10.1195,	
10,	MCV,		07/11/07 14:42,	1.0,	98.5945,	98.6%
11,	CCB,		07/11/07 15:08,	1.0,	n.a.	
12,	MRLCHK,		07/11/07 15:33,	1.0, ✓	5.9391,	119%
13,	MBLK,		07/11/07 15:59,	1.0,	n.a.	
14,	LCS1,		07/11/07 16:24,	1.0, ✓	104.1104,	104%
15,	LCS2,		07/11/07 16:50,	1.0, ✓	100.6534,	101%
16,	2707060295_1/50-DNR	BR	07/11/07 17:15,	50.0,	65194.4872,	
17,	2707060296-DNR,	BR	07/11/07 17:40,	1.0,	579.3627,	
18,	2707060070,	BR/CLO2	07/11/07 18:06,	1.0,	n.a. ✓	
19,	2707060070MS,		07/11/07 18:31,	1.0, ✓	47.2524,	47.3-94.6%
20,	2707060070MSD,		07/11/07 18:57,	1.0, ✓	47.9489,	47.9-95.8%
21,	2707060297_1/500,	BR	07/11/07 19:22,	500.0, ✓	66368.1500,	
22,	2707060298_1/2,	BR	07/11/07 19:47,	2.0, ✓	637.8159,	
23,	2707060299_1/500,	BR	07/11/07 20:13,	500.0, ✓	65413.8064,	
24,	2707060300_1/2,	BR	07/11/07 20:38,	2.0, ✓	545.0106,	
25,	2707060301_1/500,	BR	07/11/07 21:04,	500.0, ✓	63393.0370,	
26,	2707060302_1/2,	BR	07/11/07 21:29,	2.0, ✓	613.8349,	
27,	2707060303_1/500,	BR	07/11/07 21:54,	500.0, ✓	64497.3824,	
28,	MCV,		07/11/07 22:20,	1.0,	100.6814,	101%
29,	CCB,		07/11/07 22:45,	1.0,	n.a.	
30,	2707060304_1/2,	BR	07/11/07 23:11,	2.0, ✓	447.5491,	
31,	2707060305_1/500,	BR	07/11/07 23:36,	500.0, ✓	60867.4439,	
32,	2707060306_1/2,	BR	07/12/07 00:01,	2.0, ✓	491.8507,	
33,	2707060307_1/500,	BR	07/12/07 00:27,	500.0, ✓	65515.1007,	
34,	2707060308_1/2,	BR	07/12/07 00:52,	2.0, ✓	411.2450,	
35,	2707060309_1/500,	BR	07/12/07 01:18,	500.0, ✓	66458.5139,	
36,	2707060310_1/2,	BR	07/12/07 01:43,	2.0, ✓	368.7165,	
37,	2707060311_1/500,	BR	07/12/07 02:08,	500.0, ✓	61136.2234,	
38,	2707060312_1/2,	BR	07/12/07 02:34,	2.0, ✓	531.7728,	
39,	2707060294,	BR	07/12/07 02:59,	1.0, ✓	3.0326,	
40,	2707060294MS,		07/12/07 03:25,	1.0, ✓	47.7887,	44.8-89.5%
41,	2707060294MSD,		07/12/07 03:50,	1.0, ✓	49.8160,	46.8-93.6%
42,	HCV,		07/12/07 04:15,	1.0,	395.2142,	98.8%
43,	CCB,		07/12/07 04:41,	1.0,	n.a.	
44,	MCV,		07/12/07 05:06,	1.0,	99.4407,	99.4%
45,	CCB,		07/12/07 05:32,	1.0,	n.a.	
46,	MRLCHK,		07/12/07 05:57,	1.0, ✓	5.8632,	117%
47,	MBLK,		07/12/07 06:22,	1.0,	n.a.	
48,	LCS1,		07/12/07 06:48,	1.0, ✓	101.3877,	101%

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb Br CD_1	
49,	LCS2,		07/12/07 07:13,	1.0, ✓	100.9692,	101%
50,	2707060295_1/500,	BR	07/12/07 07:39,	500.0, ✓	68547.7868,	
51,	2707060296_1/2,	BR	07/12/07 08:04,	2.0, ✓	567.9555,	
52,	2706290030_1/10,	CLO3	07/12/07 08:29,	10.0,	282.4111,	
53,	2707050104,	CLO2/CLO3	07/12/07 08:55,	1.0,	n.a.	
54,	2707050104MS,		07/12/07 09:20,	1.0, ✓	50.8214,	50.8 - 102 %
55,	2707050104MSD,		07/12/07 09:46,	1.0, ✓	46.3294,	46.3 - 92.6%
56,	2707050105,	CLO2/CLO3	07/12/07 10:11,	1.0,	n.a.	
57,	2707030268_1/5,	CLO3	07/12/07 10:36,	5.0,	1045.5796,	
58,	2707030271_1/5000,	CLO3	07/12/07 11:02,	5000.0,	n.a.	
59,	2707030626,	BR	07/12/07 11:27,	1.0,	129.7795, ✓	
60,	2707050055,	BR	07/12/07 11:53,	1.0,	59.0302, ✓	
61,	2707050056,	BR	07/12/07 12:18,	1.0,	118.6013, ✓	
62,	MCV,		07/12/07 12:43,	1.0,	99.4072,	99.4%
63,	CCB,		07/12/07 13:09,	1.0,	n.a.	
64,	2707060316,	BR	07/12/07 13:34,	1.0, ✓	69.8136,	
65,	2707060384,	BR	07/12/07 14:00,	1.0, ✓	6.3300,	
66,	2707060253_1/50000,	CLO39056	07/12/07 14:25,	50000.0,	n.a.	
67,	2707060260_1/50000,	CLO3	07/12/07 14:50,	50000.0,	n.a.	
68,	2707090059,	CLO2/CLO3	07/12/07 15:16,	1.0,	n.a.	
69,	2707090059MS,		07/12/07 15:41,	1.0, ✓	47.6883,	41.7 - 95.4%
70,	2707090059MSD,		07/12/07 16:07,	1.0, ✓	48.0767,	48.1 - 96.2%
71,	2707060251,	CLO2/CLO3	07/12/07 16:32,	1.0,	179.8344,	
72,	2707060252,	CLO2/CLO3	07/12/07 16:57,	1.0,	n.a.	
73,	2707060385,	CLO2/CLO3	07/12/07 17:23,	1.0,	n.a.	
74,	2707110558_1/5,	CLO3	07/12/07 17:48,	5.0,	1065.3607,	
75,	2707110559_1/5000,	CLO3	07/12/07 18:14,	5000.0,	n.a.	
76,	HCV,		07/12/07 18:39,	1.0,	392.5918,	98.1%
77,	CCB,		07/12/07 19:04,	1.0,	n.a.	
78,	MDL-4-CLV-DNR,		07/12/07 19:30,	1.0,	10.2791,	
79,	MDL-4-CLV,		07/12/07 19:55,	1.0,	5.3824,	
80,	MDL-5-CLV,		07/12/07 20:20,	1.0,	4.8610,	
81,	DOC-3-CLV,		07/12/07 20:46,	1.0,	102.0175,	

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb ClO2 CD_1	
1,	wash,		07/11/07 10:25,	1.0,	n.a.	
2,	autocal1,		07/11/07 10:51,	1.0,	n.a.	
3,	autocal2,	RAJA060520-3	07/11/07 11:16,	1.0,	11.2610,	
4,	autocal3,	RAJA060520-4	07/11/07 11:41,	1.0,	20.1317,	
5,	autocal4,	RAJA060520-5	07/11/07 12:07,	1.0,	95.8507,	
6,	autocal5,	RAJA060520-6	07/11/07 12:32,	1.0,	199.8145,	
7,	autocal6,	RAJA060520-7	07/11/07 12:58,	1.0,	401.6675,	
8,	autocal7,	RAJA060520-8	07/11/07 13:23,	1.0,	799.6708,	
9,	autocal3,	RAJA060520-4	07/11/07 14:17,	1.0,	21.7342,	
10,	MCV,		07/11/07 14:42,	1.0,	196.8338,	98.4%
11,	CCB,		07/11/07 15:08,	1.0,	n.a.	
12,	MRLCHK,		07/11/07 15:33,	1.0,	✓10.1017,	101%
13,	MBLK,		07/11/07 15:59,	1.0,	n.a.	
14,	LCS1,		07/11/07 16:24,	1.0,	✓210.7002,	105%
15,	LCS2,		07/11/07 16:50,	1.0,	✓208.3351,	104%
16,	2707060295_1/50-DNR	BR	07/11/07 17:15,	50.0,	n.a.	
17,	2707060296-DNR,	BR	07/11/07 17:40,	1.0,	n.a.	
18,	2707060070,	BR/CLO2	07/11/07 18:06,	1.0,	✓n.a.	
19,	2707060070MS,		07/11/07 18:31,	1.0,	✓99.7686,	99.8%
20,	2707060070MSD,		07/11/07 18:57,	1.0,	✓96.8123,	96.8%
21,	2707060297_1/500,	BR	07/11/07 19:22,	500.0,	n.a.	
22,	2707060298_1/2,	BR	07/11/07 19:47,	2.0,	n.a.	
23,	2707060299_1/500,	BR	07/11/07 20:13,	500.0,	n.a.	
24,	2707060300_1/2,	BR	07/11/07 20:38,	2.0,	n.a.	
25,	2707060301_1/500,	BR	07/11/07 21:04,	500.0,	n.a.	
26,	2707060302_1/2,	BR	07/11/07 21:29,	2.0,	n.a.	
27,	2707060303_1/500,	BR	07/11/07 21:54,	500.0,	n.a.	
28,	MCV,		07/11/07 22:20,	1.0,	198.4442,	99.2%
29,	CCB,		07/11/07 22:45,	1.0,	n.a.	
30,	2707060304_1/2,	BR	07/11/07 23:11,	2.0,	n.a.	
31,	2707060305_1/500,	BR	07/11/07 23:36,	500.0,	n.a.	
32,	2707060306_1/2,	BR	07/12/07 00:01,	2.0,	n.a.	
33,	2707060307_1/500,	BR	07/12/07 00:27,	500.0,	n.a.	
34,	2707060308_1/2,	BR	07/12/07 00:52,	2.0,	n.a.	
35,	2707060309_1/500,	BR	07/12/07 01:18,	500.0,	n.a.	
36,	2707060310_1/2,	BR	07/12/07 01:43,	2.0,	n.a.	
37,	2707060311_1/500,	BR	07/12/07 02:08,	500.0,	n.a.	
38,	2707060312_1/2,	BR	07/12/07 02:34,	2.0,	n.a.	
39,	2707060294,	BR	07/12/07 02:59,	1.0,	n.a.	
40,	2707060294MS,		07/12/07 03:25,	1.0,	98.7971,	98.8%
41,	2707060294MSD,		07/12/07 03:50,	1.0,	96.9125,	96.9%
42,	HCV,		07/12/07 04:15,	1.0,	802.1895,	100%
43,	CCB,		07/12/07 04:41,	1.0,	n.a.	
44,	MCV,		07/12/07 05:06,	1.0,	196.1396,	98.1%
45,	CCB,		07/12/07 05:32,	1.0,	n.a.	
46,	MRLCHK,		07/12/07 05:57,	1.0,	✓11.0365,	110%
47,	MBLK,		07/12/07 06:22,	1.0,	n.a.	
48,	LCS1,		07/12/07 06:48,	1.0,	✓211.0275,	106%

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb ClO2 CD_1	
,	,					
49,	LCS2,		07/12/07 07:13,	1.0,	208.5371,	104%
50,	2707060295_1/500,	BR	07/12/07 07:39,	500.0,	n.a.	
51,	2707060296_1/2,	BR	07/12/07 08:04,	2.0,	n.a.	
52,	2706290030_1/10,	CLO3	07/12/07 08:29,	10.0,	n.a.	
53,	2707050104,	CLO2/CLO3	07/12/07 08:55,	1.0,	n.a.	
54,	2707050104MS,		07/12/07 09:20,	1.0,	95.5127,	95.5%
55,	2707050104MSD,		07/12/07 09:46,	1.0,	92.4152,	92.4%
56,	2707050105,	CLO2/CLO3	07/12/07 10:11,	1.0,	n.a.	
57,	2707030268_1/5,	CLO3	07/12/07 10:36,	5.0,	105.1845,	
58,	2707030271_1/5000,	CLO3	07/12/07 11:02,	5000.0,	n.a.	
59,	2707030626,	BR	07/12/07 11:27,	1.0,	n.a.	
60,	2707050055,	BR	07/12/07 11:53,	1.0,	n.a.	
61,	2707050056,	BR	07/12/07 12:18,	1.0,	n.a.	
62,	MCV,		07/12/07 12:43,	1.0,	198.4471,	99.2%
63,	CCB,		07/12/07 13:09,	1.0,	n.a.	
64,	2707060316,	BR	07/12/07 13:34,	1.0,	n.a.	
65,	2707060384,	BR	07/12/07 14:00,	1.0,	n.a.	
66,	2707060253_1/50000,	CLO39056	07/12/07 14:25,	50000.0,	n.a.	
67,	2707060260_1/50000,	CLO3	07/12/07 14:50,	50000.0,	n.a.	
68,	2707090059,	CLO2/CLO3	07/12/07 15:16,	1.0,	n.a.	
69,	2707090059MS,		07/12/07 15:41,	1.0,	96.9114,	96.9%
70,	2707090059MSD,		07/12/07 16:07,	1.0,	96.1636,	96.2%
71,	2707060251,	CLO2/CLO3	07/12/07 16:32,	1.0,	n.a.	
72,	2707060252,	CLO2/CLO3	07/12/07 16:57,	1.0,	n.a.	
73,	2707060385,	CLO2/CLO3	07/12/07 17:23,	1.0,	n.a.	
74,	2707110558_1/5,	CLO3	07/12/07 17:48,	5.0,	n.a.	
75,	2707110559_1/5000,	CLO3	07/12/07 18:14,	5000.0,	n.a.	
76,	HCV,		07/12/07 18:39,	1.0,	793.5361,	99.2%
77,	CCB,		07/12/07 19:04,	1.0,	n.a.	
78,	MDL-4-CLV-DNR,		07/12/07 19:30,	1.0,	10.0406,	
79,	MDL-4-CLV,		07/12/07 19:55,	1.0,	9.8092,	
80,	MDL-5-CLV,		07/12/07 20:20,	1.0,	9.6818,	
81,	DOC-3-CLV,		07/12/07 20:46,	1.0,	200.4861,	

No. ,	Sample Name ,	Comment	Time	Dil.Fac.	Amount ppb ClO3 CD_1	
1,	wash,		07/11/07 10:25,	1.0,	n.a.	
2,	autocal1,		07/11/07 10:51,	1.0,	n.a.	
3,	autocal2,	RAJA060520-3	07/11/07 11:16,	1.0,	12.0024	
4,	autocal3,	RAJA060520-4	07/11/07 11:41,	1.0,	23.988	
5,	autocal4,	RAJA060520-5	07/11/07 12:07,	1.0,	95.8746	
6,	autocal5,	RAJA060520-6	07/11/07 12:32,	1.0,	201.1692	
7,	autocal6,	RAJA060520-7	07/11/07 12:58,	1.0,	400.7855	
8,	autocal7,	RAJA060520-8	07/11/07 13:23,	1.0,	799.7963	
9,	autocal3,	RAJA060520-4	07/11/07 14:17,	1.0,	20.3718	
10,	MCV,		07/11/07 14:42,	1.0,	198.3999	
11,	CCB,		07/11/07 15:08,	1.0,	n.a.	
12,	MRLCHK,		07/11/07 15:33,	1.0,	11.8288	
13,	MBLK,		07/11/07 15:59,	1.0,	n.a.	
14,	LCS1,		07/11/07 16:24,	1.0,	204.7219	
15,	LCS2,		07/11/07 16:50,	1.0,	199.3858	
16,	2707060295_1/50-DNR	BR	07/11/07 17:15,	50.0,	n.a.	
17,	2707060296-DNR,	BR	07/11/07 17:40,	1.0,	n.a.	
18,	2707060070,	BR/CLO2	07/11/07 18:06,	1.0,	n.a.	
19,	2707060070MS,		07/11/07 18:31,	1.0,	97.542	
20,	2707060070MSD,		07/11/07 18:57,	1.0,	96.8291	
21,	2707060297_1/500,	BR	07/11/07 19:22,	500.0,	n.a.	
22,	2707060298_1/2,	BR	07/11/07 19:47,	2.0,	n.a.	
23,	2707060299_1/500,	BR	07/11/07 20:13,	500.0,	n.a.	
24,	2707060300_1/2,	BR	07/11/07 20:38,	2.0,	n.a.	
25,	2707060301_1/500,	BR	07/11/07 21:04,	500.0,	n.a.	
26,	2707060302_1/2,	BR	07/11/07 21:29,	2.0,	n.a.	
27,	2707060303_1/500,	BR	07/11/07 21:54,	500.0,	n.a.	
28,	MCV,		07/11/07 22:20,	1.0,	201.3423	
29,	CCB,		07/11/07 22:45,	1.0,	n.a.	
30,	2707060304_1/2,	BR	07/11/07 23:11,	2.0,	n.a.	
31,	2707060305_1/500,	BR	07/11/07 23:36,	500.0,	n.a.	
32,	2707060306_1/2,	BR	07/12/07 00:01,	2.0,	n.a.	
33,	2707060307_1/500,	BR	07/12/07 00:27,	500.0,	n.a.	
34,	2707060308_1/2,	BR	07/12/07 00:52,	2.0,	n.a.	
35,	2707060309_1/500,	BR	07/12/07 01:18,	500.0,	n.a.	
36,	2707060310_1/2,	BR	07/12/07 01:43,	2.0,	n.a.	
37,	2707060311_1/500,	BR	07/12/07 02:08,	500.0,	n.a.	
38,	2707060312_1/2,	BR	07/12/07 02:34,	2.0,	n.a.	
39,	2707060294,	BR	07/12/07 02:59,	1.0,	n.a.	
40,	2707060294MS,		07/12/07 03:25,	1.0,	90.8589	
41,	2707060294MSD,		07/12/07 03:50,	1.0,	92.4804	
42,	HCV,		07/12/07 04:15,	1.0,	800.2521	
43,	CCB,		07/12/07 04:41,	1.0,	n.a.	
44,	MCV,		07/12/07 05:06,	1.0,	197.2488	98.6%
45,	CCB,		07/12/07 05:32,	1.0,	n.a.	
46,	MRLCHK,		07/12/07 05:57,	1.0,	✓ 11.6296	116%
47,	MBLK,		07/12/07 06:22,	1.0,	n.a.	
48,	LCS1,		07/12/07 06:48,	1.0,	✓ 204.2804	102%

No. ,	Sample Name ,	Comment	Time	Dil.Fac.	Amount ppb ClO3 CD_1	
49,	LCS2,		07/12/07 07:13,	1.0,	198.3524	99.2%
50,	2707060295_1/500,	BR	07/12/07 07:39,	500.0,	n.a.	
51,	2707060296_1/2,	BR	07/12/07 08:04,	2.0,	n.a.	
52,	2706290030_1/10,	CLO3	07/12/07 08:29,	10.0,	3912.034	
53,	2707050104,	CLO2/CLO3	07/12/07 08:55,	1.0,	105.1219	
54,	2707050104MS,		07/12/07 09:20,	1.0,	187.7481	82.6%
55,	2707050104MSD,		07/12/07 09:46,	1.0,	187.9221	82.8%
56,	2707050105,	CLO2/CLO3	07/12/07 10:11,	1.0,	n.a.	
57,	2707030268_1/5,	CLO3	07/12/07 10:36,	5.0,	56.6097	
58,	2707030271_1/5000,	CLO3	07/12/07 11:02,	5000.0,	387904.2	
59,	2707030626,	BR	07/12/07 11:27,	1.0,	15.7821	
60,	2707050055,	BR	07/12/07 11:53,	1.0,	n.a.	
61,	2707050056,	BR	07/12/07 12:18,	1.0,	n.a.	
62,	MCV,		07/12/07 12:43,	1.0,	211.2263	106%
63,	CCB,		07/12/07 13:09,	1.0,	n.a.	
64,	2707060316,	BR	07/12/07 13:34,	1.0,	n.a.	
65,	2707060384,	BR	07/12/07 14:00,	1.0,	n.a.	
66,	2707060253_1/50000,	CLO39056	07/12/07 14:25,	50000.0,	3789728	
67,	2707060260_1/50000,	CLO3	07/12/07 14:50,	50000.0,	3464744	
68,	2707090059,	CLO2/CLO3	07/12/07 15:16,	1.0,	n.a.	
69,	2707090059MS,		07/12/07 15:41,	1.0,	94.2517	94.3%
70,	2707090059MSD,		07/12/07 16:07,	1.0,	93.6376	93.6%
71,	2707060251,	CLO2/CLO3	07/12/07 16:32,	1.0,	n.a.	
72,	2707060252,	CLO2/CLO3	07/12/07 16:57,	1.0,	n.a.	
73,	2707060385,	CLO2/CLO3	07/12/07 17:23,	1.0,	n.a.	
74,	2707110558_1/5,	CLO3	07/12/07 17:48,	5.0,	n.a.	
75,	2707110559_1/5000,	CLO3	07/12/07 18:14,	5000.0,	393622.3	
76,	HCV,		07/12/07 18:39,	1.0,	790.4186	98.8%
77,	CCB,		07/12/07 19:04,	1.0,	n.a.	
78,	MDL-4-CLV-DNR,		07/12/07 19:30,	1.0,	11.5269	
79,	MDL-4-CLV,		07/12/07 19:55,	1.0,	22.4177	
80,	MDL-5-CLV,		07/12/07 20:20,	1.0,	14.1943	
81,	DOC-3-CLV,		07/12/07 20:46,	1.0,	200.6258	

Sequence: 071107-DBP-IC12
Operator: raja
Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC12_DBP\2007\JULY
Timebase: IC12
#Samples: 81
Created: 7/11/2007 10:25:03 AM by raja
(Modified, not saved)

No.	Name	Comment	Dil. Factor	Sample ID	Type	Program	Method
1	wash		1.0000		Unknown	IC12 test Program	DBP-Method
2	autocal1		1.0000		Standard	IC12 test Program	DBP-Method
3	autocal2	RAJA060520-3	1.0000		Standard	IC12 test Program	DBP-Method
4	autocal3	RAJA060520-4	1.0000		Unknown	IC12 test Program	DBP-Method
5	autocal4	RAJA060520-5	1.0000		Standard	IC12 test Program	DBP-Method
6	autocal5	RAJA060520-6	1.0000		Standard	IC12 test Program	DBP-Method
7	autocal6	RAJA060520-7	1.0000		Standard	IC12 test Program	DBP-Method
8	autocal7	RAJA060520-8	1.0000		Standard	IC12 test Program	DBP-Method
9	autocal3	RAJA060520-4	1.0000		Standard	IC12 test Program	DBP-Method
10	MCV		1.0000		Unknown	IC12 test Program	DBP-Method
11	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
12	MRLCHK		1.0000		Unknown	IC12 test Program	DBP-Method
13	MBLK		1.0000		Unknown	IC12 test Program	DBP-Method
14	LCS1		1.0000		Unknown	IC12 test Program	DBP-Method
15	LCS2		1.0000		Unknown	IC12 test Program	DBP-Method
16	2707060295_1/50-DNR	BR	50.0000		Unknown	IC12 test Program	DBP-Method
17	2707060296-DNR	BR	1.0000		Unknown	IC12 test Program	DBP-Method
18	2707060070	BR/CLO2	1.0000		Unknown	IC12 test Program	DBP-Method
19	2707060070MS		1.0000		Unknown	IC12 test Program	DBP-Method
20	2707060070MSD		1.0000		Unknown	IC12 test Program	DBP-Method
21	2707060297_1/500	BR	500.0000		Unknown	IC12 test Program	DBP-Method
22	2707060298_1/2	BR	2.0000		Unknown	IC12 test Program	DBP-Method
23	2707060299_1/500	BR	500.0000		Unknown	IC12 test Program	DBP-Method
24	2707060300_1/2	BR	2.0000		Unknown	IC12 test Program	DBP-Method
25	2707060301_1/500	BR	500.0000		Unknown	IC12 test Program	DBP-Method
26	2707060302_1/2	BR	2.0000		Unknown	IC12 test Program	DBP-Method
27	2707060303_1/500	BR	500.0000		Unknown	IC12 test Program	DBP-Method
28	MCV		1.0000		Unknown	IC12 test Program	DBP-Method
29	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
30	2707060304_1/2	BR	2.0000		Unknown	IC12 test Program	DBP-Method
31	2707060305_1/500	BR	500.0000		Unknown	IC12 test Program	DBP-Method
32	2707060306_1/2	BR	2.0000		Unknown	IC12 test Program	DBP-Method
33	2707060307_1/500	BR	500.0000		Unknown	IC12 test Program	DBP-Method
34	2707060308_1/2	BR	2.0000		Unknown	IC12 test Program	DBP-Method
35	2707060309_1/500	BR	500.0000		Unknown	IC12 test Program	DBP-Method
36	2707060310_1/2	BR	2.0000		Unknown	IC12 test Program	DBP-Method
37	2707060311_1/500	BR	500.0000		Unknown	IC12 test Program	DBP-Method
38	2707060312_1/2	BR	2.0000		Unknown	IC12 test Program	DBP-Method
39	2707060294	BR	1.0000		Unknown	IC12 test Program	DBP-Method
40	2707060294MS		1.0000		Unknown	IC12 test Program	DBP-Method
41	2707060294MSD		1.0000		Unknown	IC12 test Program	DBP-Method
42	HCV		1.0000		Unknown	IC12 test Program	DBP-Method
43	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
44	MCV		1.0000		Unknown	IC12 test Program	DBP-Method
45	CCB		1.0000		Unknown	IC12 test Program	DBP-Method

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC12_DBP\2007\JULY
Timebase: IC12
#Samples: 81
Created: 7/11/2007 10:25:03 AM by raja
(Modified, not saved)

No.	Name	Status	Inj. Date/Time	*Analyst	*Spike
1	wash	Finished	7/11/2007 10:25:43 AM	raja	
2	autocal1	Finished	7/11/2007 10:51:08 AM	raja	
3	autocal2	Finished	7/11/2007 11:16:33 AM	raja	
4	autocal3	Finished	7/11/2007 11:41:56 AM	raja	
5	autocal4	Finished	7/11/2007 12:07:20 PM	raja	
6	autocal5	Finished	7/11/2007 12:32:45 PM	raja	
7	autocal6	Finished	7/11/2007 12:58:06 PM	raja	
8	autocal7	Finished	7/11/2007 1:23:37 PM	raja	
9	autocal3	Finished	7/11/2007 2:17:25 PM	raja	
10	MCV	Finished	7/11/2007 2:42:46 PM	raja	
11	CCB	Finished	7/11/2007 3:08:06 PM	raja	
12	MRLCHK	Finished	7/11/2007 3:33:26 PM	raja	
13	MBLK	Finished	7/11/2007 3:59:01 PM	raja	
14	LCS1	Finished	7/11/2007 4:24:42 PM	raja	
15	LCS2	Finished	7/11/2007 4:50:07 PM	raja	
16	2707060295_1/50-DNR	Finished	7/11/2007 5:15:31 PM	raja	
17	2707060296-DNR	Finished	7/11/2007 5:40:55 PM	raja	
18	2707060070	Finished	7/11/2007 6:06:20 PM	raja	
19	2707060070MS	Finished	7/11/2007 6:31:43 PM	raja	
20	2707060070MSD	Finished	7/11/2007 6:57:05 PM	raja	
21	2707060297_1/500	Finished	7/11/2007 7:22:28 PM	raja	
22	2707060298_1/2	Finished	7/11/2007 7:47:51 PM	raja	
23	2707060299_1/500	Finished	7/11/2007 8:13:15 PM	raja	
24	2707060300_1/2	Finished	7/11/2007 8:38:38 PM	raja	
25	2707060301_1/500	Finished	7/11/2007 9:04:05 PM	raja	
26	2707060302_1/2	Finished	7/11/2007 9:29:30 PM	raja	
27	2707060303_1/500	Finished	7/11/2007 9:54:54 PM	raja	
28	MCV	Finished	7/11/2007 10:20:17 PM	raja	
29	CCB	Finished	7/11/2007 10:45:41 PM	raja	
30	2707060304_1/2	Finished	7/11/2007 11:11:05 PM	raja	
31	2707060305_1/500	Finished	7/11/2007 11:36:28 PM	raja	
32	2707060306_1/2	Finished	7/12/2007 12:01:52 AM	raja	
33	2707060307_1/500	Finished	7/12/2007 12:27:16 AM	raja	
34	2707060308_1/2	Finished	7/12/2007 12:52:40 AM	raja	
35	2707060309_1/500	Finished	7/12/2007 1:18:04 AM	raja	
36	2707060310_1/2	Finished	7/12/2007 1:43:28 AM	raja	
37	2707060311_1/500	Finished	7/12/2007 2:08:52 AM	raja	
38	2707060312_1/2	Finished	7/12/2007 2:34:16 AM	raja	
39	2707060294	Finished	7/12/2007 2:59:40 AM	raja	
40	2707060294MS	Finished	7/12/2007 3:25:04 AM	raja	
41	2707060294MSD	Finished	7/12/2007 3:50:28 AM	raja	
42	HCV	Finished	7/12/2007 4:15:51 AM	raja	
43	CCB	Finished	7/12/2007 4:41:15 AM	raja	
44	MCV	Finished	7/12/2007 5:06:39 AM	raja	
45	CCB	Finished	7/12/2007 5:32:03 AM	raja	

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC12_DBP\2007\JULY
Timebase: IC12
#Samples: 81
Created: 7/11/2007 10:25:03 AM by raja
(Modified, not saved)

No.	Name	Comment	Dil. Factor	Sample ID	Type	Program	Method
46	MRLCHK		1.0000		Unknown	IC12 test Program	DBP-Method
47	MBLK		1.0000		Unknown	IC12 test Program	DBP-Method
48	LCS1		1.0000		Unknown	IC12 test Program	DBP-Method
49	LCS2		1.0000		Unknown	IC12 test Program	DBP-Method
50	2707060295_1/500	BR	500.0000		Unknown	IC12 test Program	DBP-Method
51	2707060296_1/2	BR	2.0000		Unknown	IC12 test Program	DBP-Method
52	2706290030_1/10	CLO3	10.0000		Unknown	IC12 test Program	DBP-Method
53	2707050104	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
54	2707050104MS		1.0000		Unknown	IC12 test Program	DBP-Method
55	2707050104MSD		1.0000		Unknown	IC12 test Program	DBP-Method
56	2707050105	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
57	2707030268_1/5	CLO3	5.0000		Unknown	IC12 test Program	DBP-Method
58	2707030271_1/5000	CLO3	5000.0000		Unknown	IC12 test Program	DBP-Method
59	2707030626	BR	1.0000		Unknown	IC12 test Program	DBP-Method
60	2707050055	BR	1.0000		Unknown	IC12 test Program	DBP-Method
61	2707050056	BR	1.0000		Unknown	IC12 test Program	DBP-Method
62	MCV		1.0000		Unknown	IC12 test Program	DBP-Method
63	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
64	2707060316	BR	1.0000		Unknown	IC12 test Program	DBP-Method
65	2707060384	BR	1.0000		Unknown	IC12 test Program	DBP-Method
66	2707060253_1/50000	CLO39056	50000.0000		Unknown	IC12 test Program	DBP-Method
67	2707060260_1/50000	CLO3	50000.0000		Unknown	IC12 test Program	DBP-Method
68	2707090059	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
69	2707090059MS		1.0000		Unknown	IC12 test Program	DBP-Method
70	2707090059MSD		1.0000		Unknown	IC12 test Program	DBP-Method
71	2707060251	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
72	2707060252	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
73	2707060385	CLO2/CLO3	1.0000		Unknown	IC12 test Program	DBP-Method
74	2707110558_1/5	CLO3	5.0000		Unknown	IC12 test Program	DBP-Method
75	2707110559_1/5000	CLO3	5000.0000		Unknown	IC12 test Program	DBP-Method
76	HCV		1.0000		Unknown	IC12 test Program	DBP-Method
77	CCB		1.0000		Unknown	IC12 test Program	DBP-Method
78	MDL-4-CLV-DNR		1.0000		Unknown	IC12 test Program	DBP-Method
79	MDL-4-CLV		1.0000		Unknown	IC12 test Program	DBP-Method
80	MDL-5-CLV		1.0000		Unknown	IC12 test Program	DBP-Method
81	DOC-3-CLV		1.0000		Unknown	IC12 test Program	DBP-Method

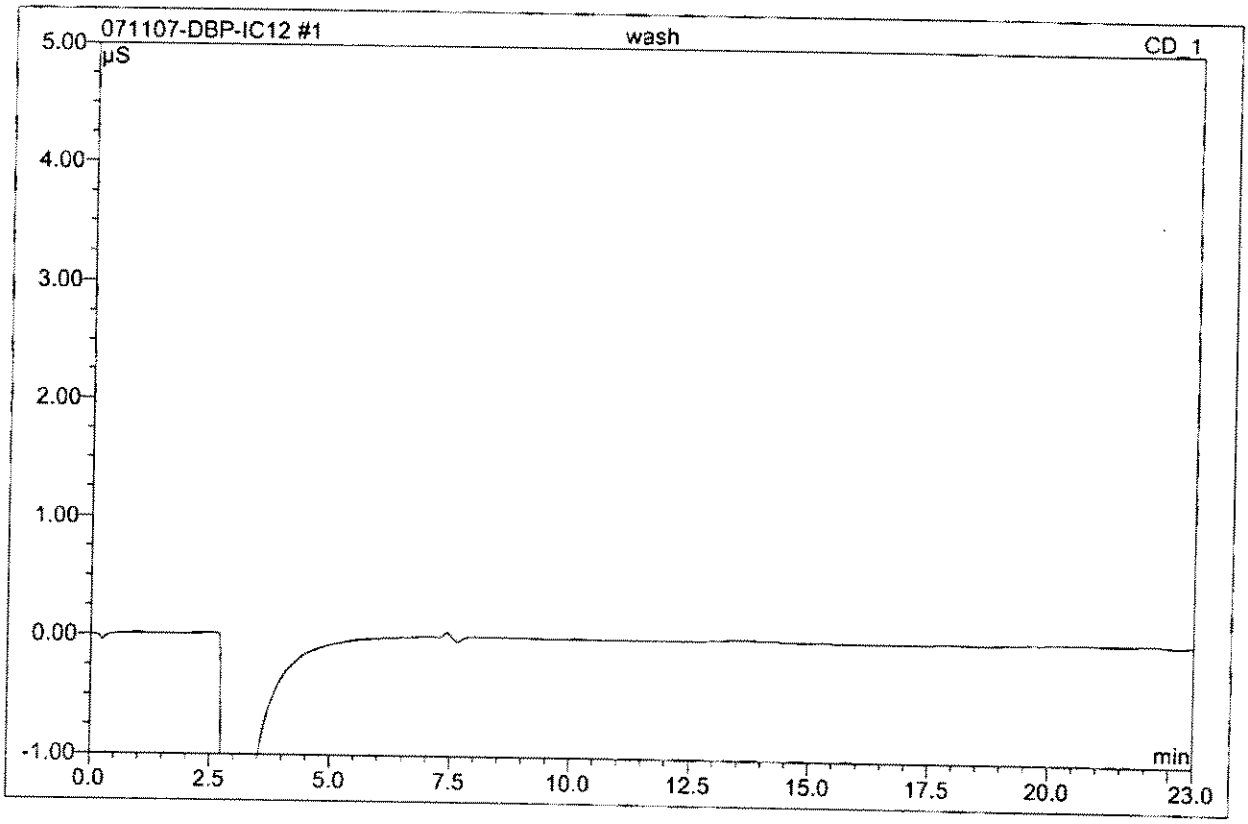
Sequence: 071107-DBP-IC12
Operator: raja
Printed: 7/13/2007 2:43:47 PM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC12_DBP\2007\JULY
Timebase: IC12
#Samples: 81
Created: 7/11/2007 10:25:03 AM by raja
(Modified, not saved)

No.	Name	Status	Inj. Date/Time	*Analyst	*Spike
46	MRLCHK	Finished	7/12/2007 5:57:27 AM	raja	
47	MBLK	Finished	7/12/2007 6:22:51 AM	raja	
48	LCS1	Finished	7/12/2007 6:48:15 AM	raja	
49	LCS2	Finished	7/12/2007 7:13:39 AM	raja	
50	2707060295_1/500	Finished	7/12/2007 7:39:03 AM	raja	
51	2707060296_1/2	Finished	7/12/2007 8:04:28 AM	raja	
52	2706290030_1/10	Finished	7/12/2007 8:29:50 AM	raja	
53	2707050104	Finished	7/12/2007 8:55:14 AM	raja	
54	2707050104MS	Finished	7/12/2007 9:20:37 AM	raja	
55	2707050104MSD	Finished	7/12/2007 9:46:01 AM	raja	
56	2707050105	Finished	7/12/2007 10:11:25 AM	raja	
57	2707030268_1/5	Finished	7/12/2007 10:36:50 AM	raja	
58	2707030271_1/5000	Finished	7/12/2007 11:02:14 AM	raja	
59	2707030626	Finished	7/12/2007 11:27:38 AM	raja	
60	2707050055	Finished	7/12/2007 11:53:02 AM	raja	
61	2707050056	Finished	7/12/2007 12:18:26 PM	raja	
62	MCV	Finished	7/12/2007 12:43:50 PM	raja	
63	CCB	Finished	7/12/2007 1:09:14 PM	raja	
64	2707060316	Finished	7/12/2007 1:34:37 PM	raja	
65	2707060384	Finished	7/12/2007 2:00:01 PM	raja	
66	2707060253_1/50000	Finished	7/12/2007 2:25:25 PM	raja	
67	2707060260_1/50000	Finished	7/12/2007 2:50:49 PM	raja	
68	2707090059	Finished	7/12/2007 3:16:13 PM	raja	
69	2707090059MS	Finished	7/12/2007 3:41:37 PM	raja	
70	2707090059MSD	Finished	7/12/2007 4:07:01 PM	raja	
71	2707060251	Finished	7/12/2007 4:32:25 PM	raja	
72	2707060252	Finished	7/12/2007 4:57:49 PM	raja	
73	2707060385	Finished	7/12/2007 5:23:13 PM	raja	
74	2707110558_1/5	Finished	7/12/2007 5:48:37 PM	raja	
75	2707110559_1/5000	Finished	7/12/2007 6:14:00 PM	raja	
76	HCV	Finished	7/12/2007 6:39:24 PM	raja	
77	CCB	Finished	7/12/2007 7:04:48 PM	raja	
78	MDL-4-CLV-DNR	Finished	7/12/2007 7:30:12 PM	raja	
79	MDL-4-CLV	Finished	7/12/2007 7:55:35 PM	raja	
80	MDL-5-CLV	Finished	7/12/2007 8:20:59 PM	raja	
81	DOC-3-CLV	Finished	7/12/2007 8:46:23 PM	raja	

1 wash

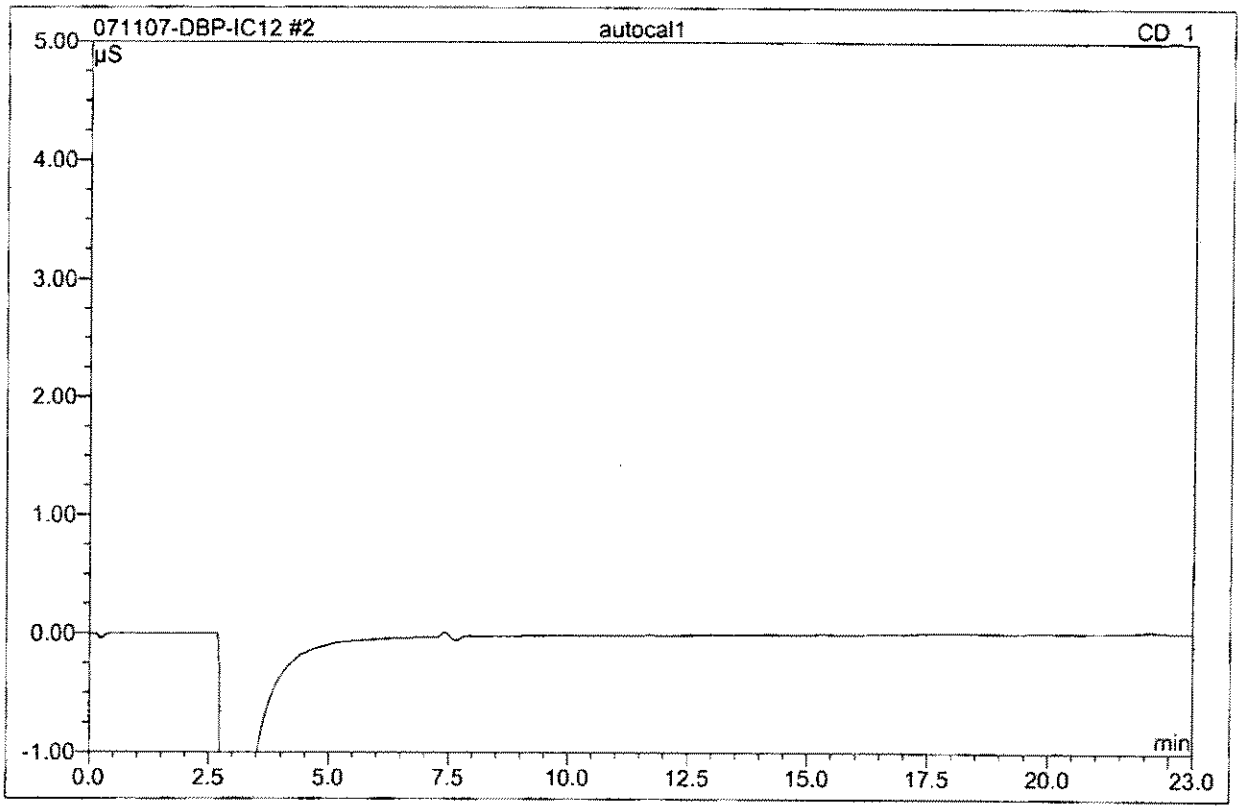
Sample Name:	**wash**	*Injection Volume:*	**1000.0**
Vial Number:	**337**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/11/2007 10:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**



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

2 autocal1

Sample Name:	**autocal1**	*Injection Volume:*	**1000.0**
Vial Number:	**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:	**7/11/2007 10:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**

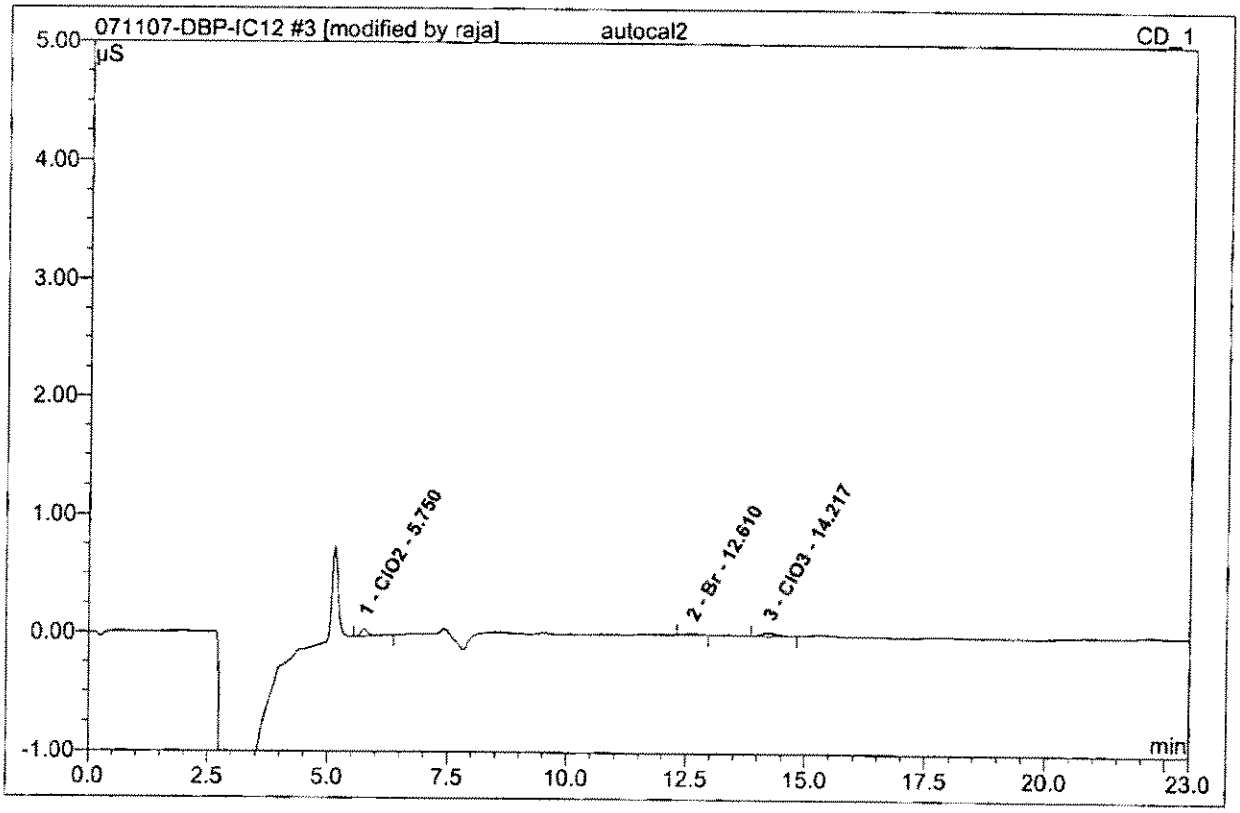


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

3 autocal2

RAJA060520-3

Sample Name:	**autocal2**	*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:	**7/11/2007 11:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**

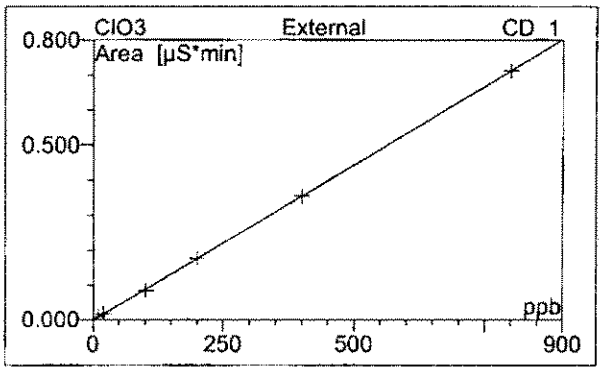


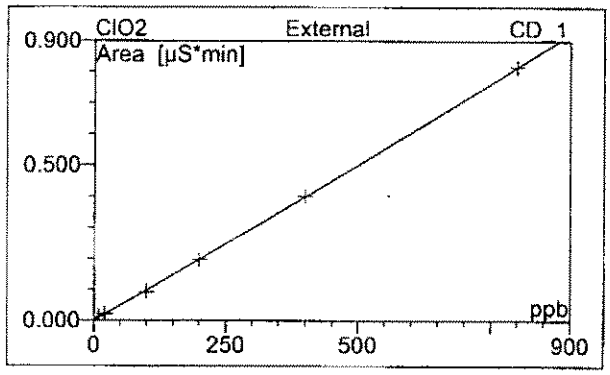
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.75	ClO2	0.061	0.011	43.55	11.261	BMB
2	12.61	Br	0.016	0.005	19.30	6.165	BMB*
3	14.22	ClO3	0.025	0.009	37.15	12.002	BMB
Total:			0.103	0.024	100.00	29.428	

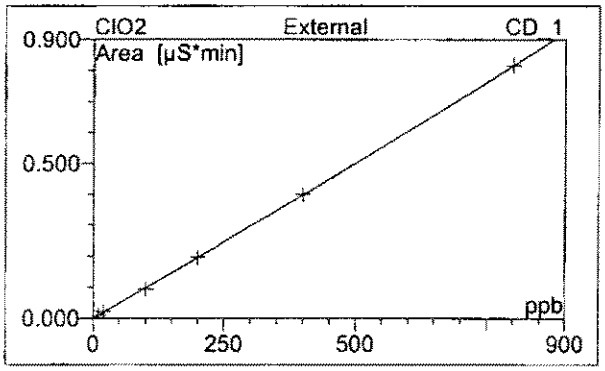
3 autocal2

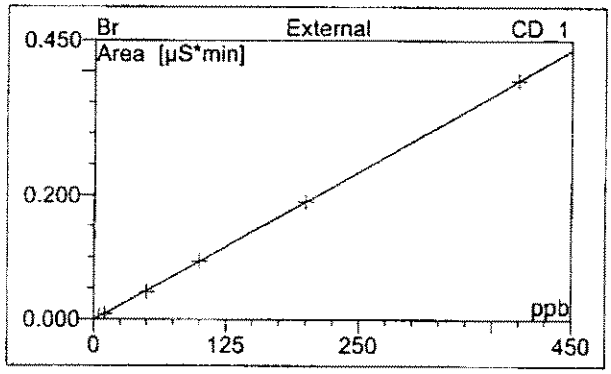
RAJA060520-3

Sample Name:	**autocal2**	*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:	**7/11/2007 11:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**







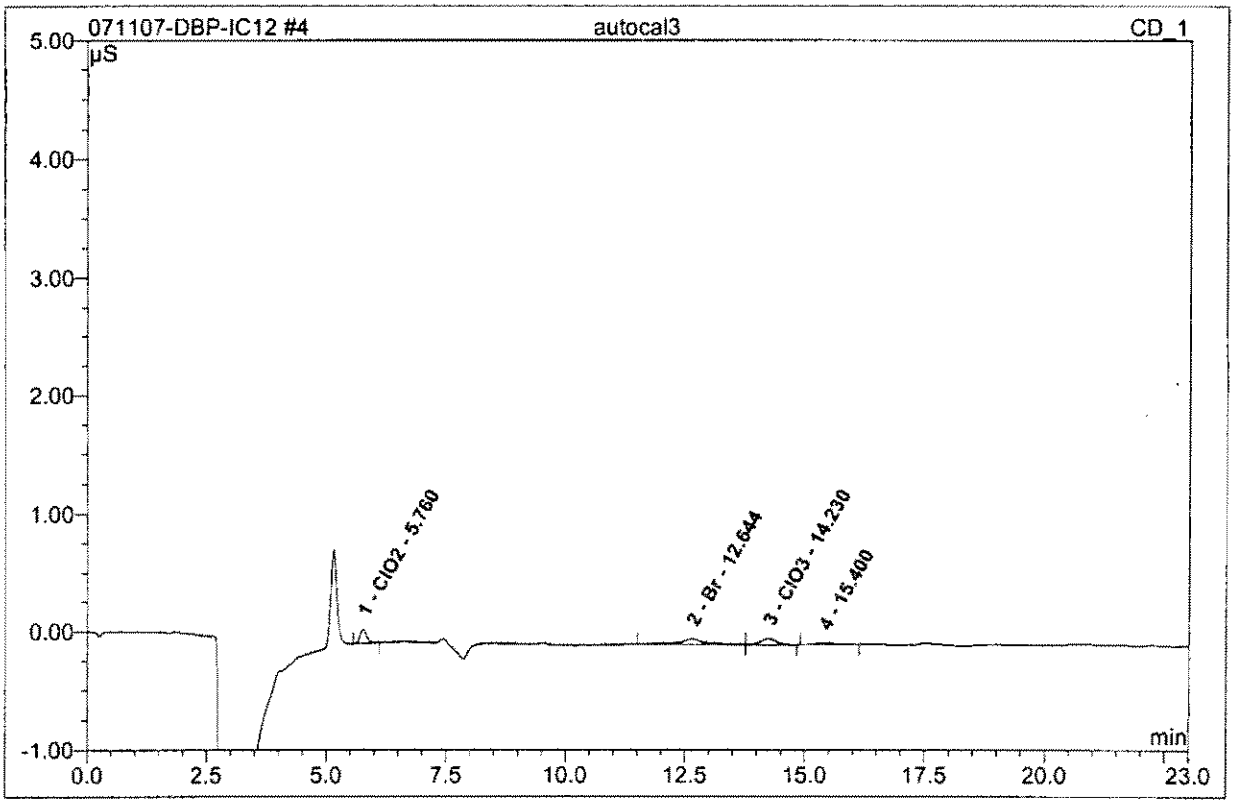


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	5.75	ClO2	QOff	6	99.9898	-0.0003	0.0010	0.0000
2	12.61	Br	QOff	6	99.9948	-0.0011	0.0009	0.0000
3	14.22	ClO3	QOff	6	99.9972	-0.0015	0.0009	0.0000
Average:					99.9939	-0.0010	0.0009	0.0000

4 autocal3

RAJA060520-4

Sample Name:	**autocal3**	*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:	**7/11/2007 11:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**

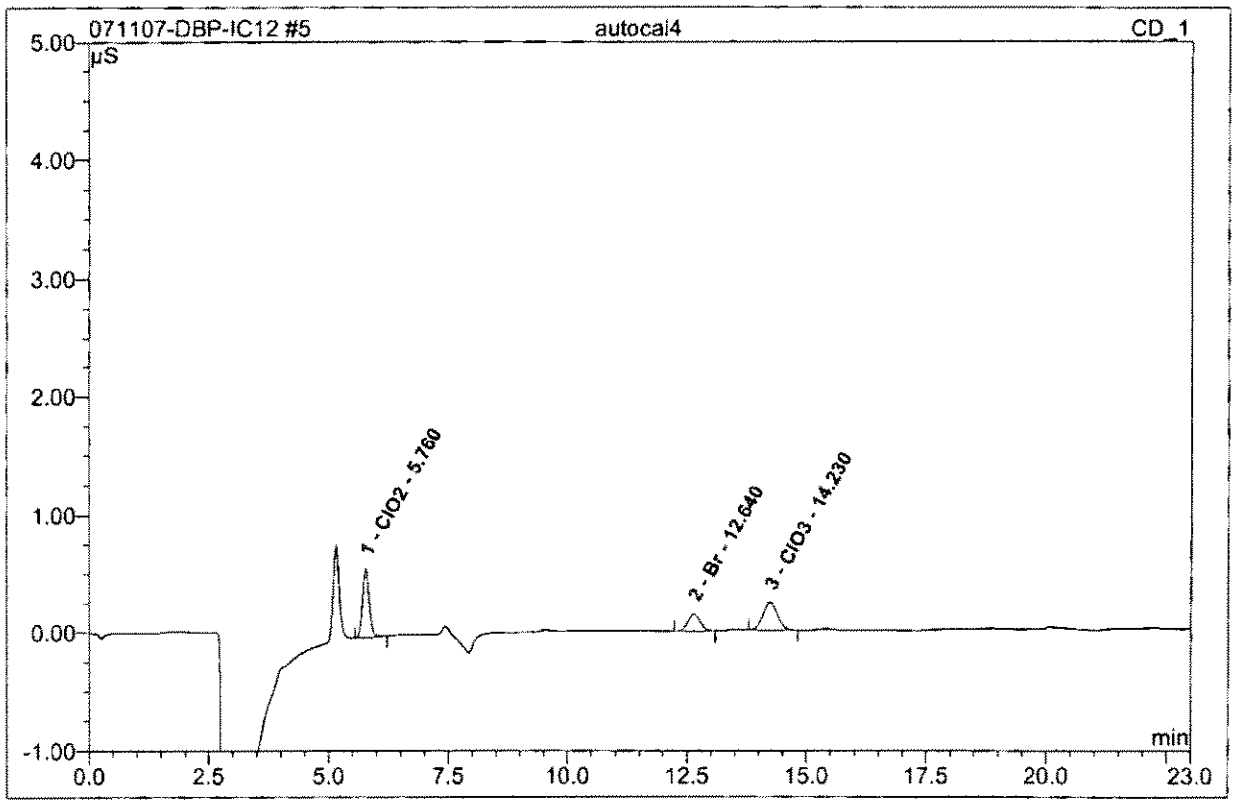


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.76	ClO2	0.121	0.019	25.10	20.132	BMB
2	12.64	Br	0.046	0.032	40.94	34.545	BM
3	14.23	ClO3	0.050	0.020	25.59	23.988	MB
4	15.40	n.a.	0.013	0.006	8.36	n.a.	BMB
Total:			0.231	0.077	100.00	78.664	

5 autocal4

RAJA060520-5

Sample Name:	**autocal4**	*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:	**7/11/2007 12:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**

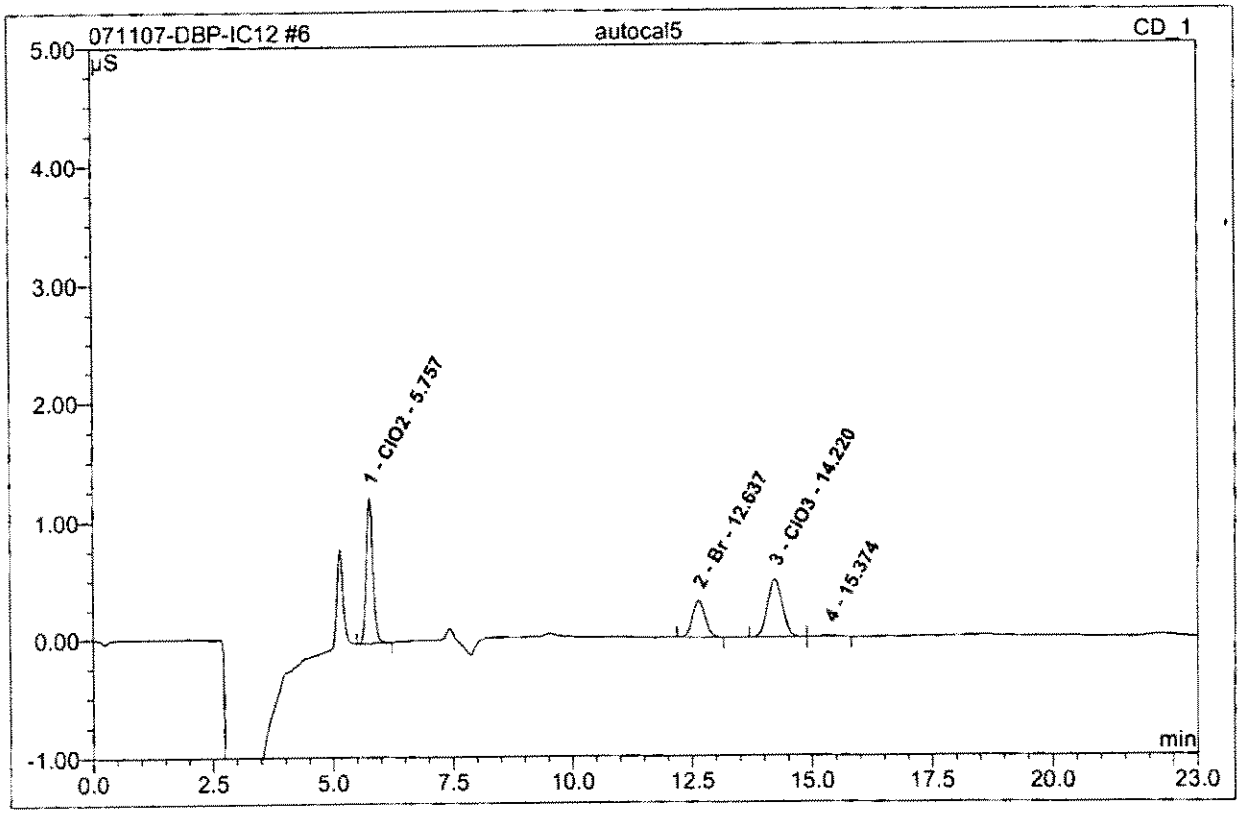


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.76	ClO2	0.587	0.094	42.35	95.851	BMB
2	12.64	Br	0.146	0.044	19.93	47.776	BMB
3	14.23	ClO3	0.235	0.083	37.72	95.875	BMB
Total:			0.969	0.221	100.00	239.501	

6 autocal5

RAJA060520-6

Sample Name:	**autocal5**	*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:	**7/11/2007 12:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**

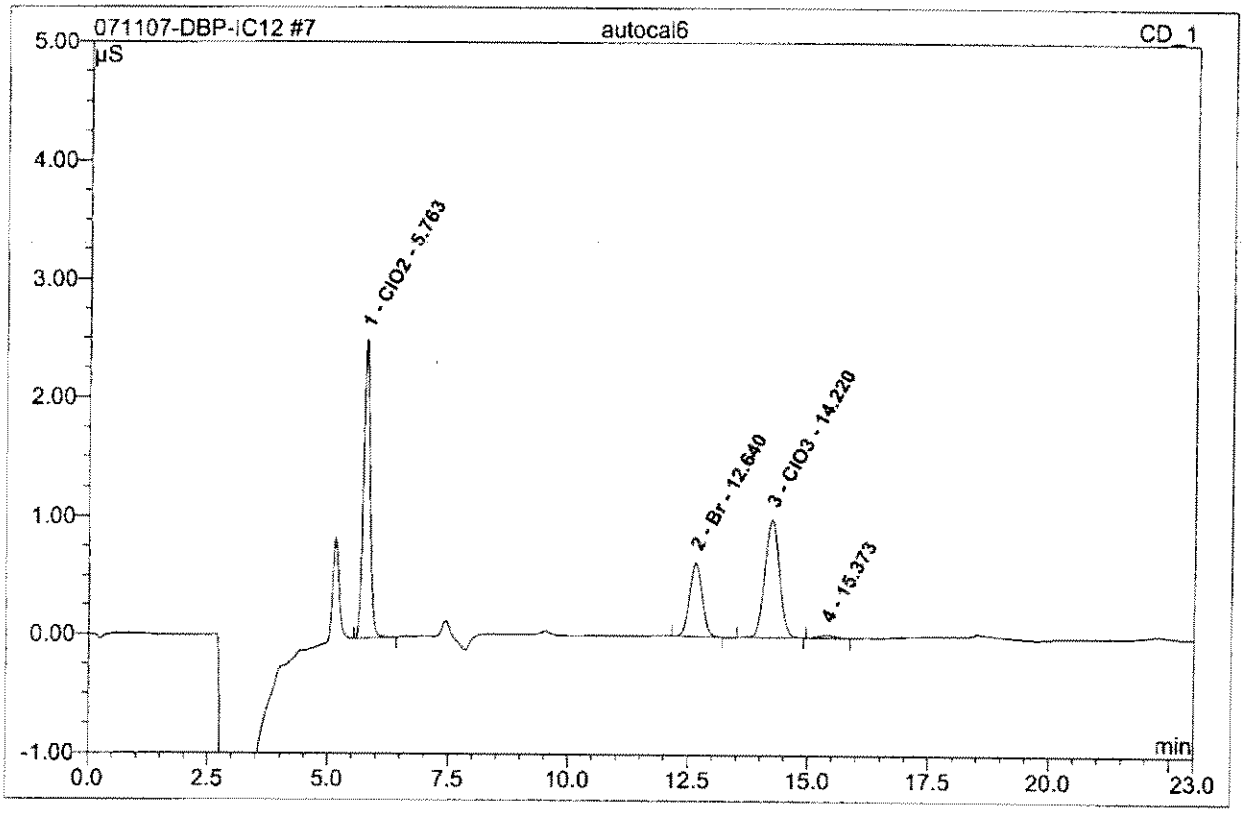


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.76	ClO2	1.230	0.197	41.48	199.815	BMB
2	12.64	Br	0.309	0.094	19.89	100.621	BMB
3	14.22	ClO3	0.491	0.177	37.29	201.169	BM
4	15.37	n.a.	0.016	0.006	1.34	n.a.	MB
Total:			2.046	0.474	100.00	501.605	

7 autocal6

RAJA060520-7

Sample Name:	**autocal6**	*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:	**7/11/2007 12:58**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**

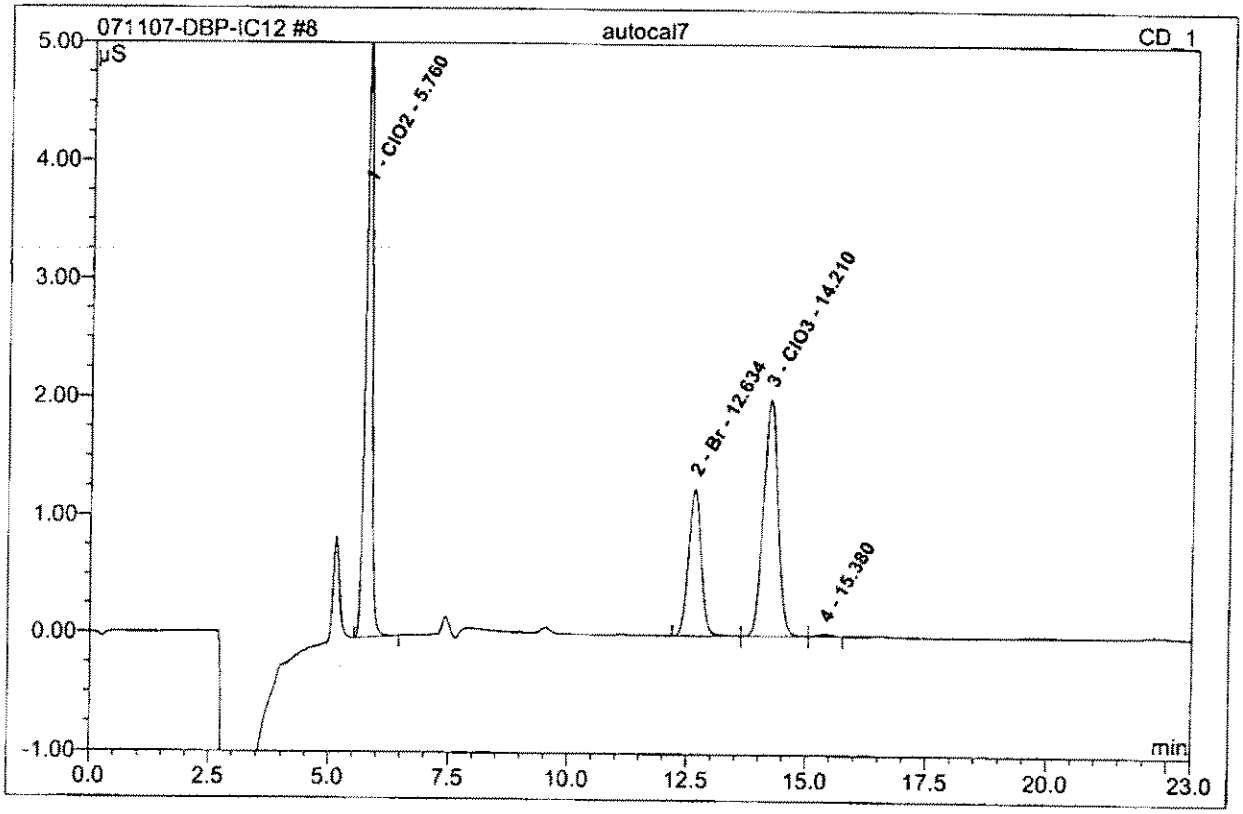


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.76	ClO2	2.516	0.400	41.93	401.667	BMB
2	12.64	Br	0.623	0.190	19.91	200.427	BMB
3	14.22	ClO3	0.995	0.354	37.14	400.785	BMB
4	15.37	n.a.	0.026	0.010	1.02	n.a.	BMB
Total:			4.160	0.954	100.00	1002.880	

8 autocal7

RAJA060520-8

Sample Name:	**autocal7**	*Injection Volume:*	**1000.0**
Vial Number:	**334**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/11/2007 13:23**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**

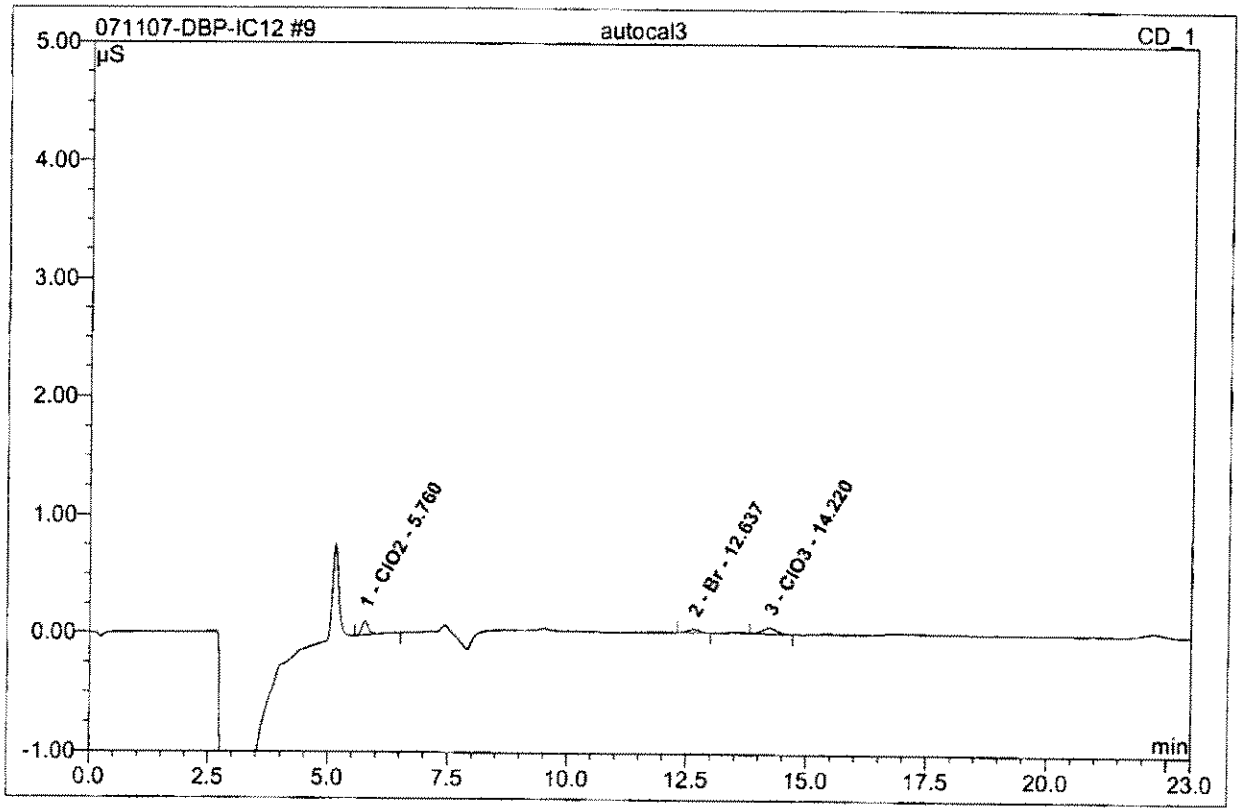


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.76	ClO2	5.174	0.815	42.49	799.671	BMB
2	12.63	Br	1.248	0.385	20.07	399.891	BM
3	14.21	ClO3	2.002	0.712	37.11	799.796	M
4	15.38	n.a.	0.018	0.006	0.33	n.a.	MB
Total:			8.443	1.919	100.00	1999.358	

9 autocal3

RAJA060520-4

Sample Name:	**autocal3**	*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:	**7/11/2007 14:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**

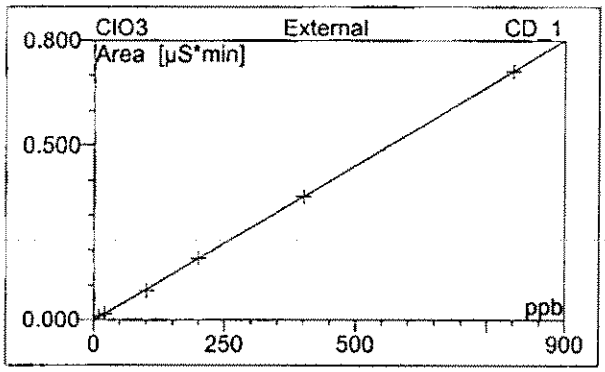


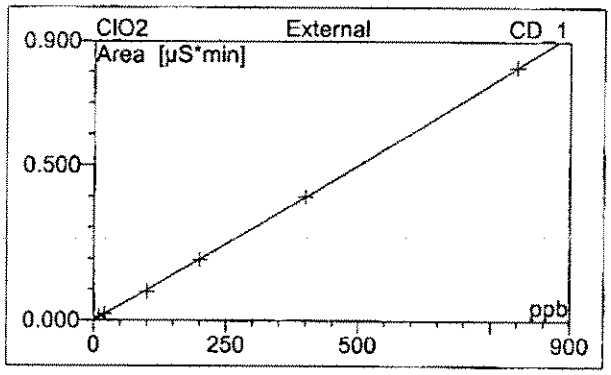
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.76	ClO2	0.119	0.021	45.56	21.734	BMB
2	12.64	Br	0.029	0.008	18.44	10.119	BMB
3	14.22	ClO3	0.047	0.016	36.00	20.372	BMB
Total:			0.196	0.046	100.00	52.226	

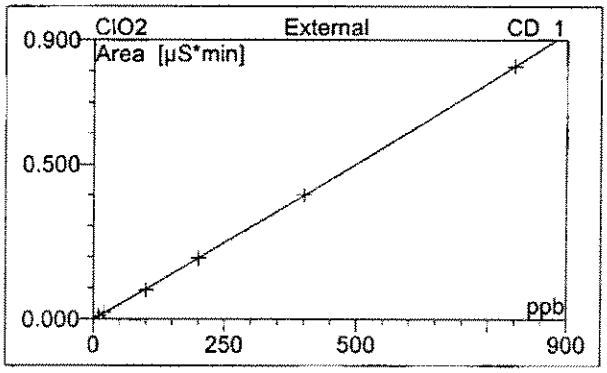
9 autocal3

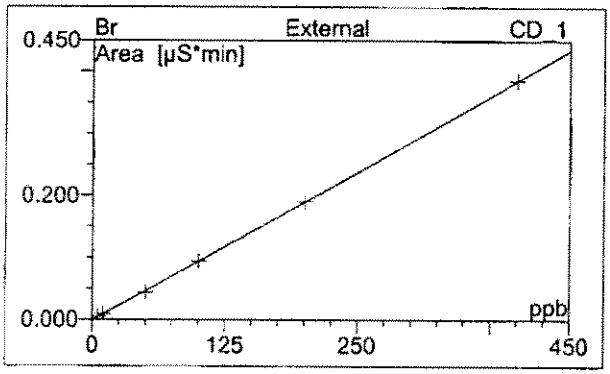
RAJA060520-4

Sample Name:	**autocal3**	*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:	**7/11/2007 14:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**





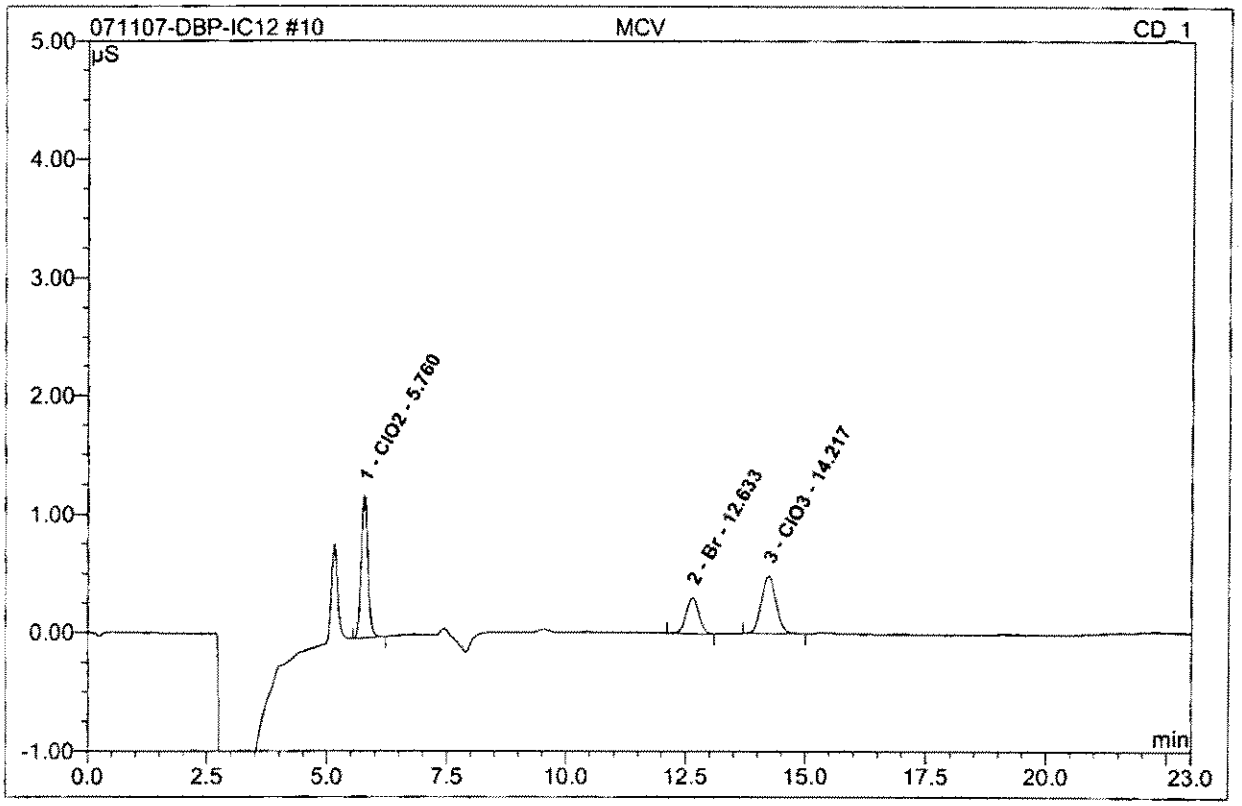




No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	5.76	ClO2	QOff	6	99.9898	-0.0003	0.0010	0.0000
2	12.64	Br	QOff	6	99.9948	-0.0011	0.0009	0.0000
3	14.22	ClO3	QOff	6	99.9972	-0.0015	0.0009	0.0000
Average:					99.9939	-0.0010	0.0009	0.0000

10 MCV

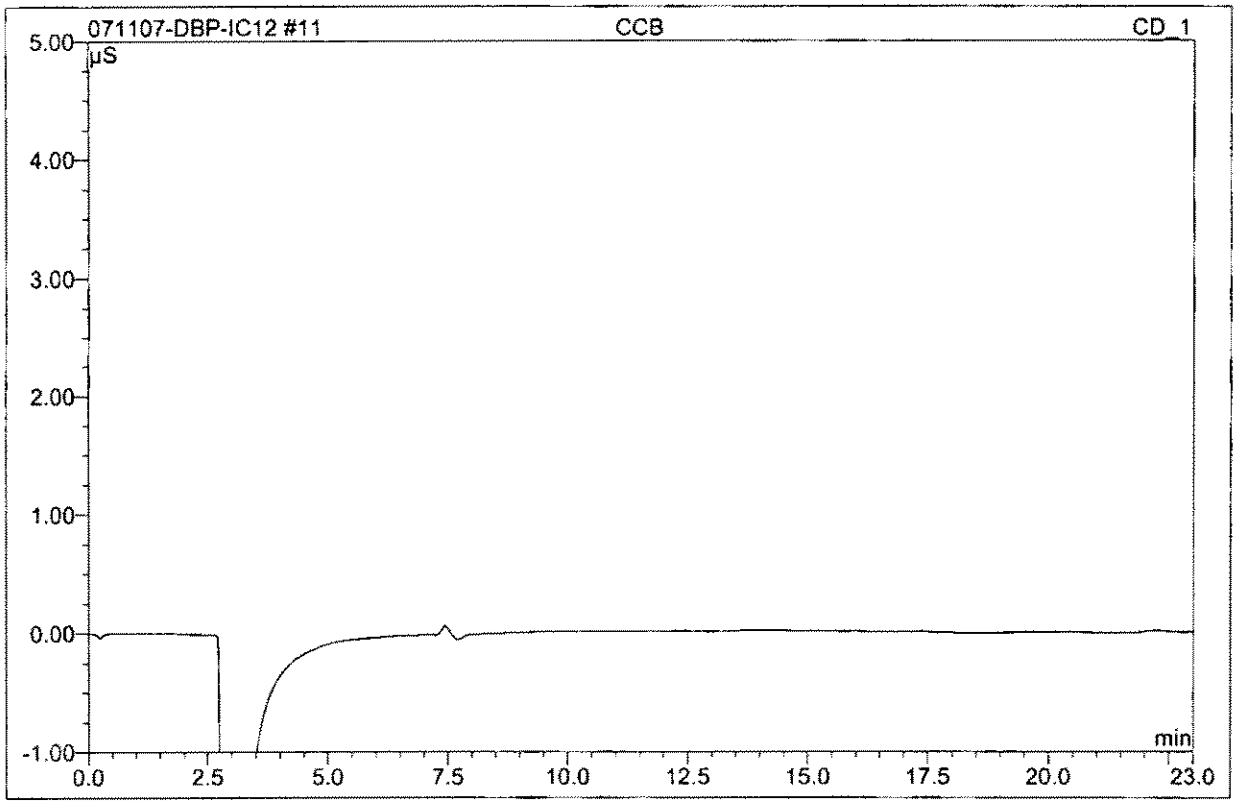
Sample Name:	**MCV**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/11/2007 14:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.76	ClO2	1.212	0.194	42.07	196.834	BMB
2	12.63	Br	0.304	0.092	20.06	98.594	BMB
3	14.22	ClO3	0.487	0.174	37.87	198.400	BMB
Total:			2.003	0.460	100.00	493.828	

11 CCB

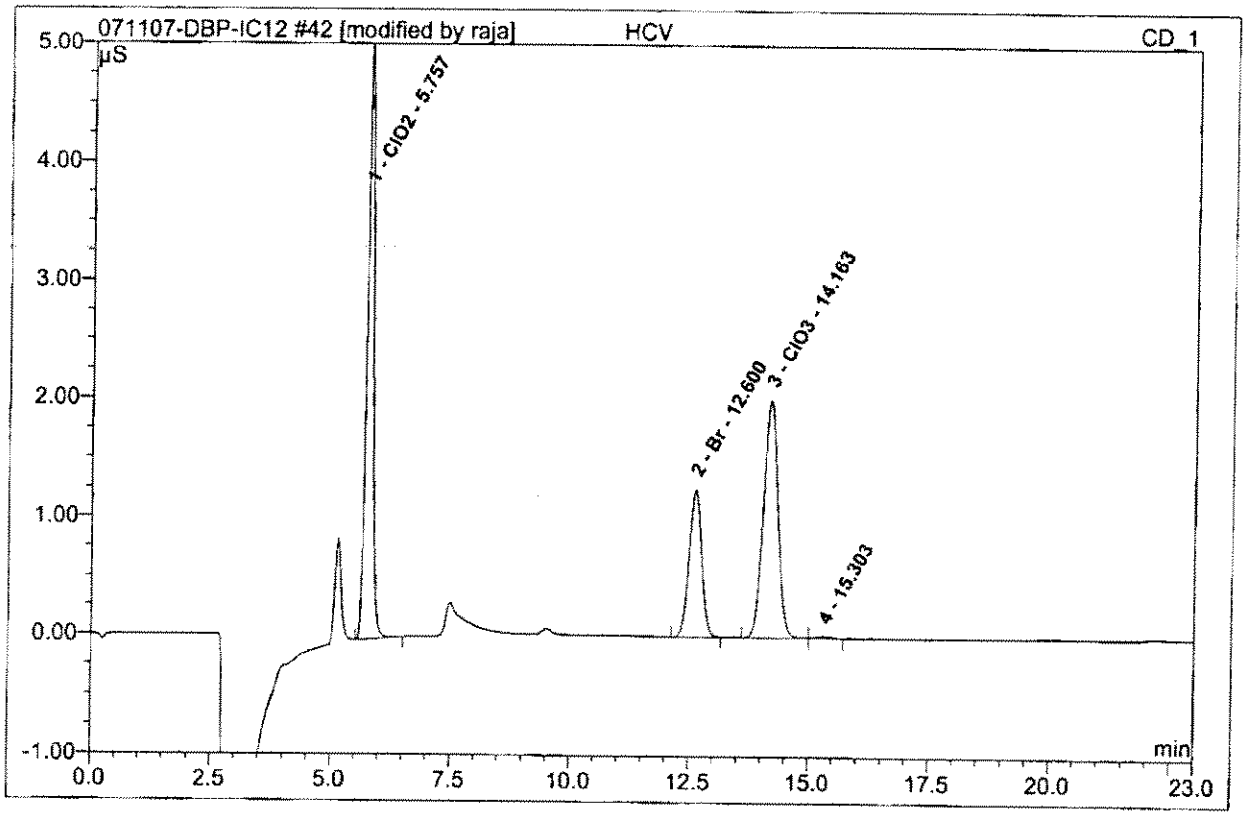
Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/11/2007 15:08**	*Sample 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	

42 HCV

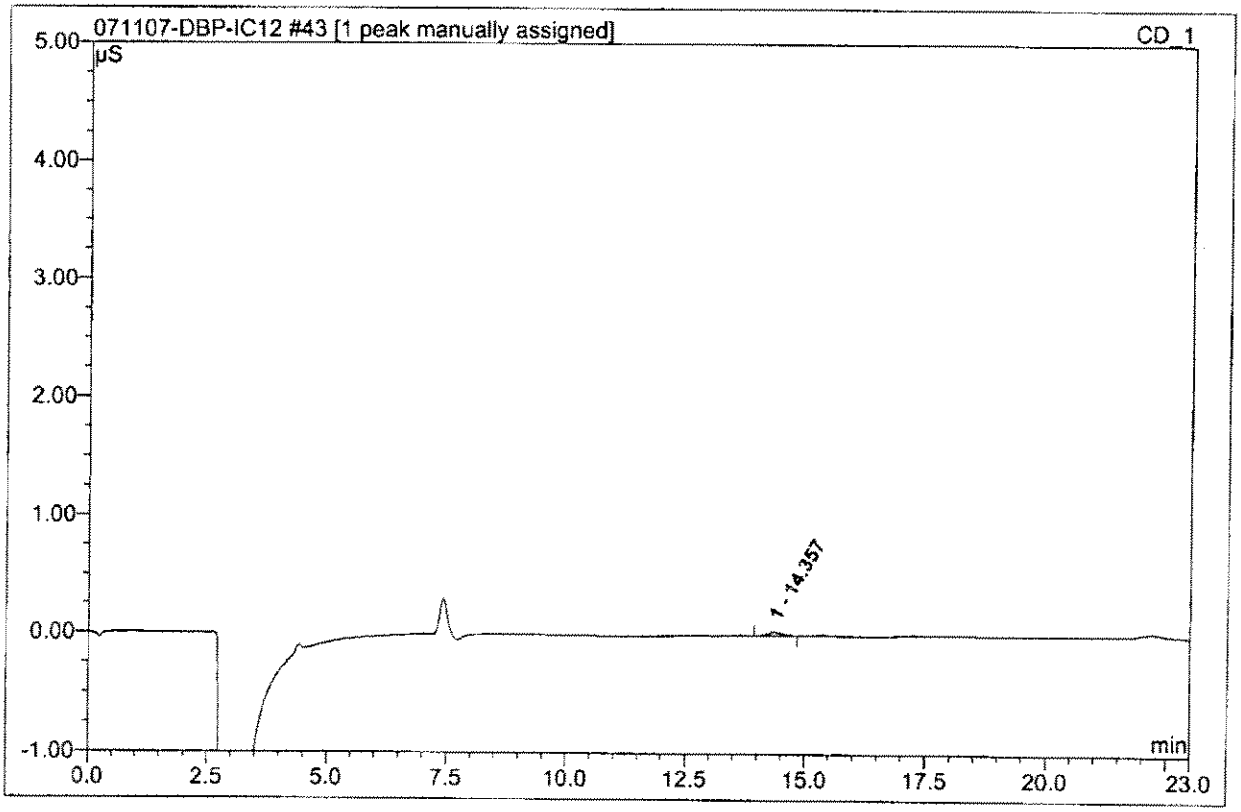
Sample Name:	**HCV**	*Injection Volume:*	**1000.0**
Vial Number:	**586**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 4:15**	*Sample 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	5.76	ClO2	5.126	0.818	42.68	802.190	BMB
2	12.60	Br	1.252	0.380	19.85	395.214	BMB*
3	14.16	ClO3	2.012	0.712	37.17	800.252	BM
4	15.30	n.a.	0.016	0.006	0.30	n.a.	MB
Total:			8.406	1.917	100.00	1997.656	

43 CCB

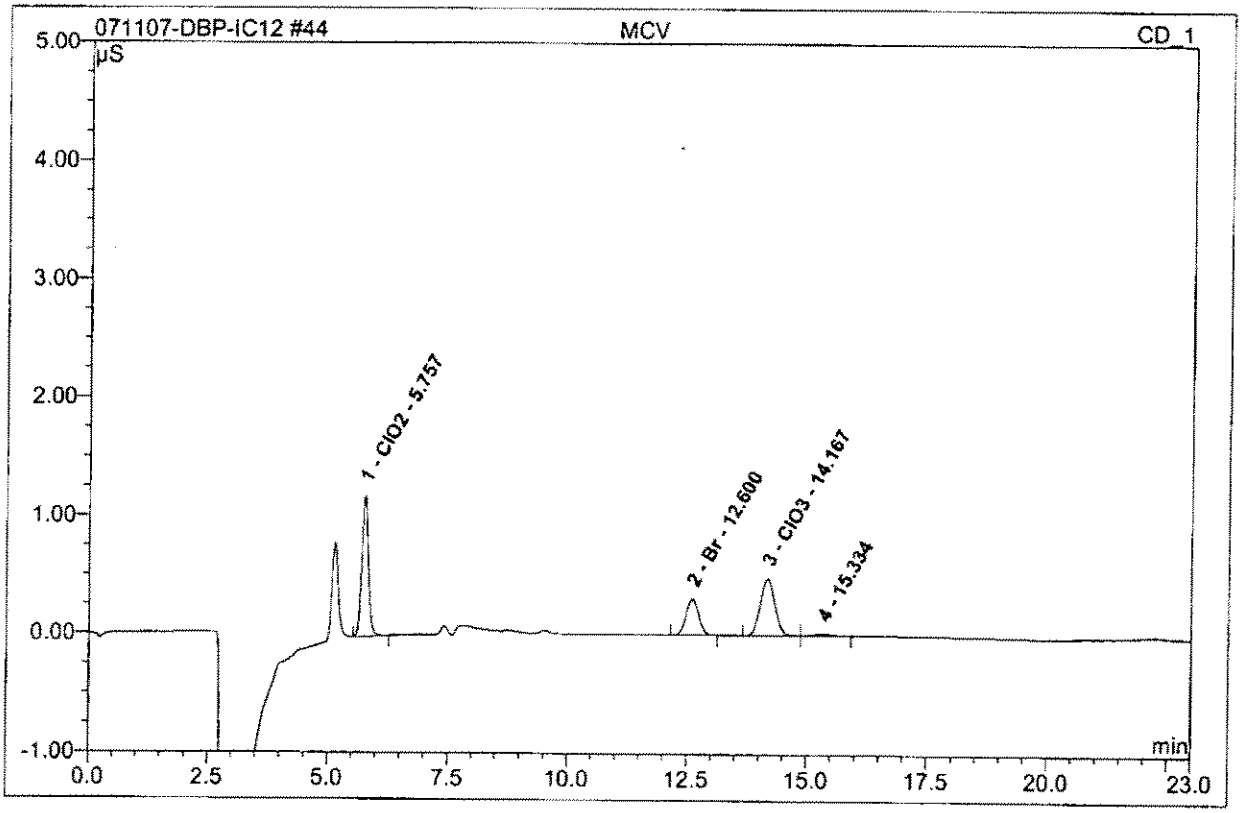
Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**587**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 4:41**	*Sample 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	14.36	n.a.	0.027	0.010	100.00	n.a.	BMB^
Total:			0.027	0.010	100.00	0.000	

44 MCV

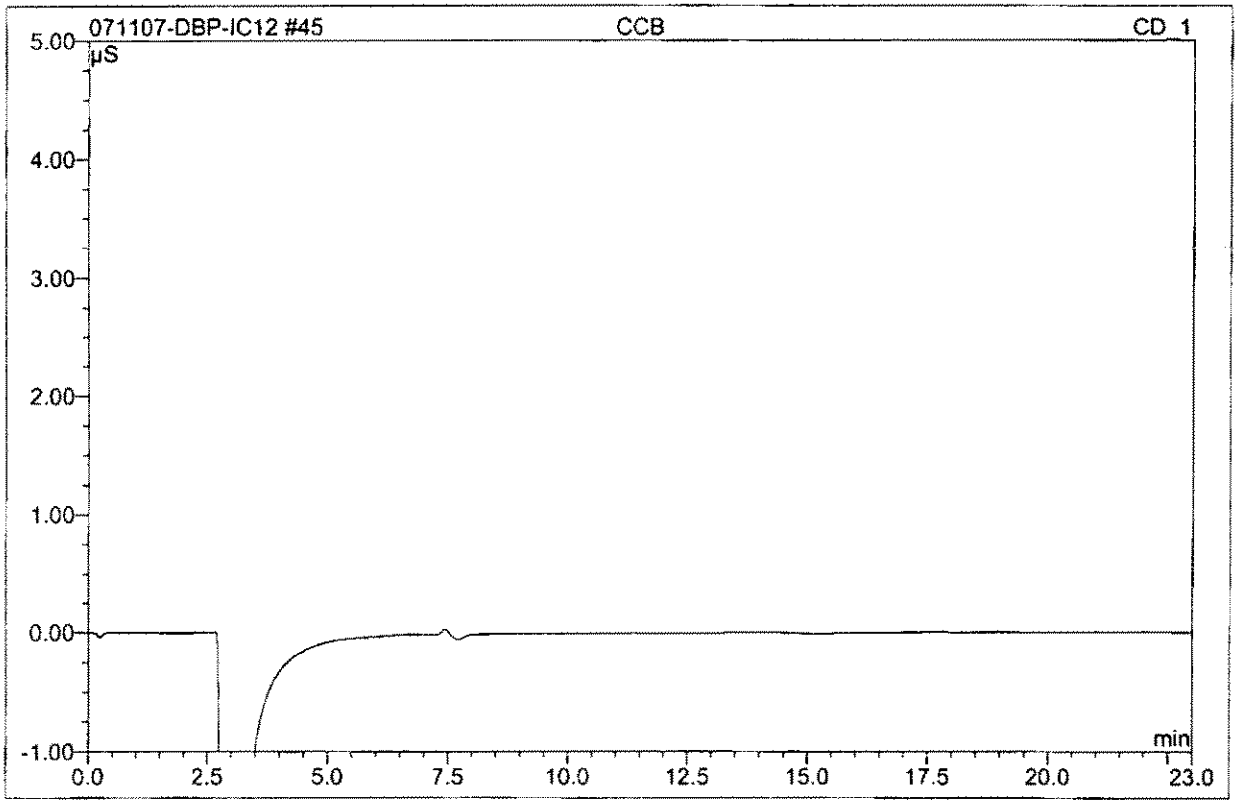
Sample Name:	**MCV**	*Injection Volume:*	**1000.0**
Vial Number:	**588**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 5:06**	*Sample 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	5.76	ClO2	1.202	0.193	41.33	196.140	BMB
2	12.60	Br	0.305	0.093	19.95	99.441	BMB
3	14.17	ClO3	0.485	0.173	37.12	197.249	BM
4	15.33	n.a.	0.016	0.007	1.60	n.a.	MB
Total:			2.009	0.467	100.00	492.829	

45 CCB

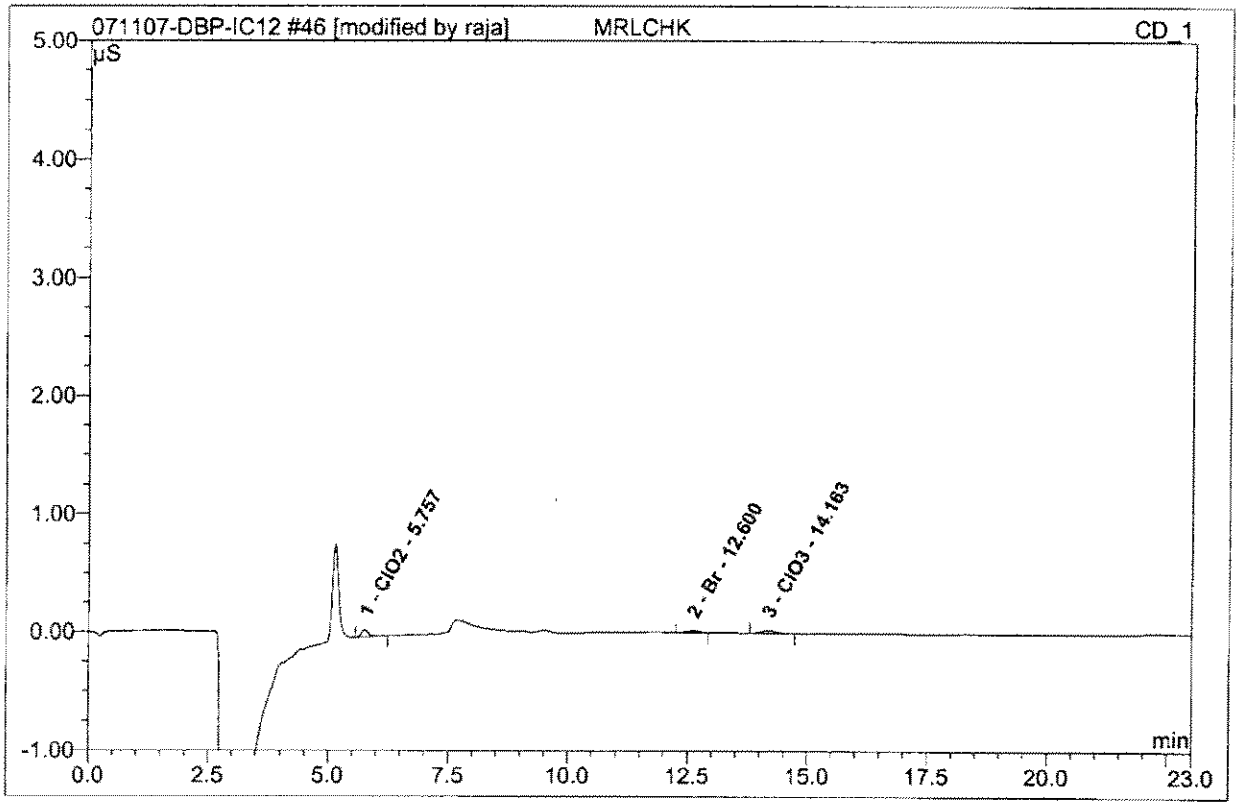
Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**589**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 5:32**	*Sample 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	

46 MRLCHK

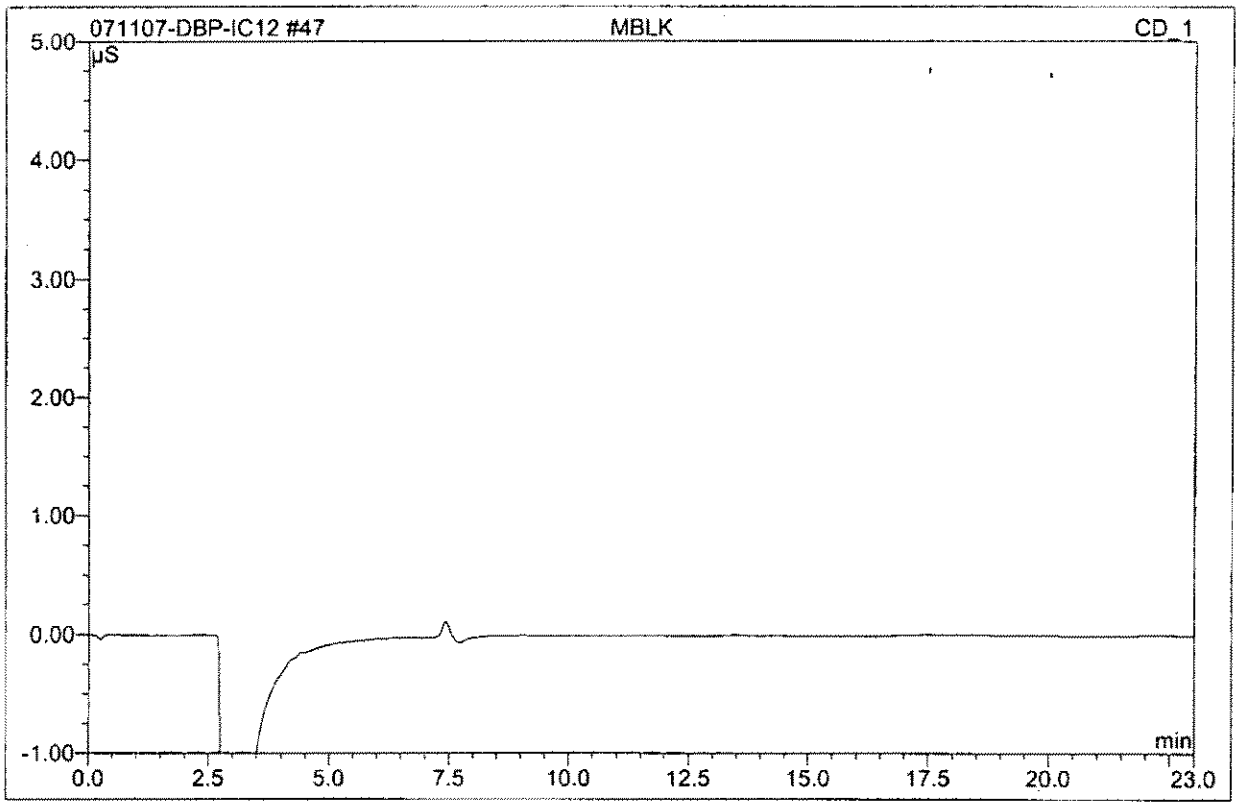
Sample Name:	**MRLCHK**	*Injection Volume:*	**1000.0**
Vial Number:	**590**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 5:57**	*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
1	5.76	ClO2	0.060	0.010	44.16	11.036	BMB*
2	12.60	Br	0.015	0.004	18.78	5.863	BMB*
3	14.16	ClO3	0.024	0.009	37.07	11.630	BMB
Total:			0.099	0.024	100.00	28.529	

47 MBLK

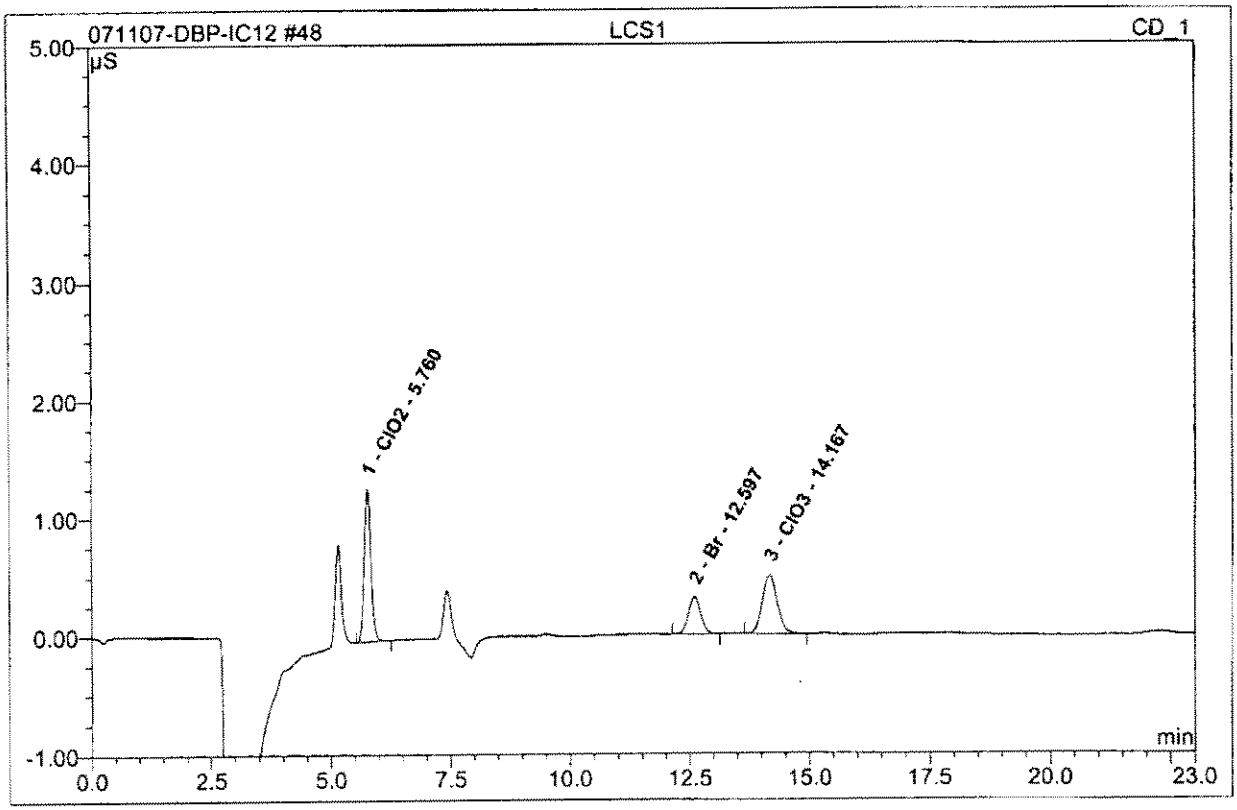
Sample Name:	**MBLK**	*Injection Volume:*	**1000.0**
Vial Number:	**591**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 6:22**	*Sample 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	

48 LCS1

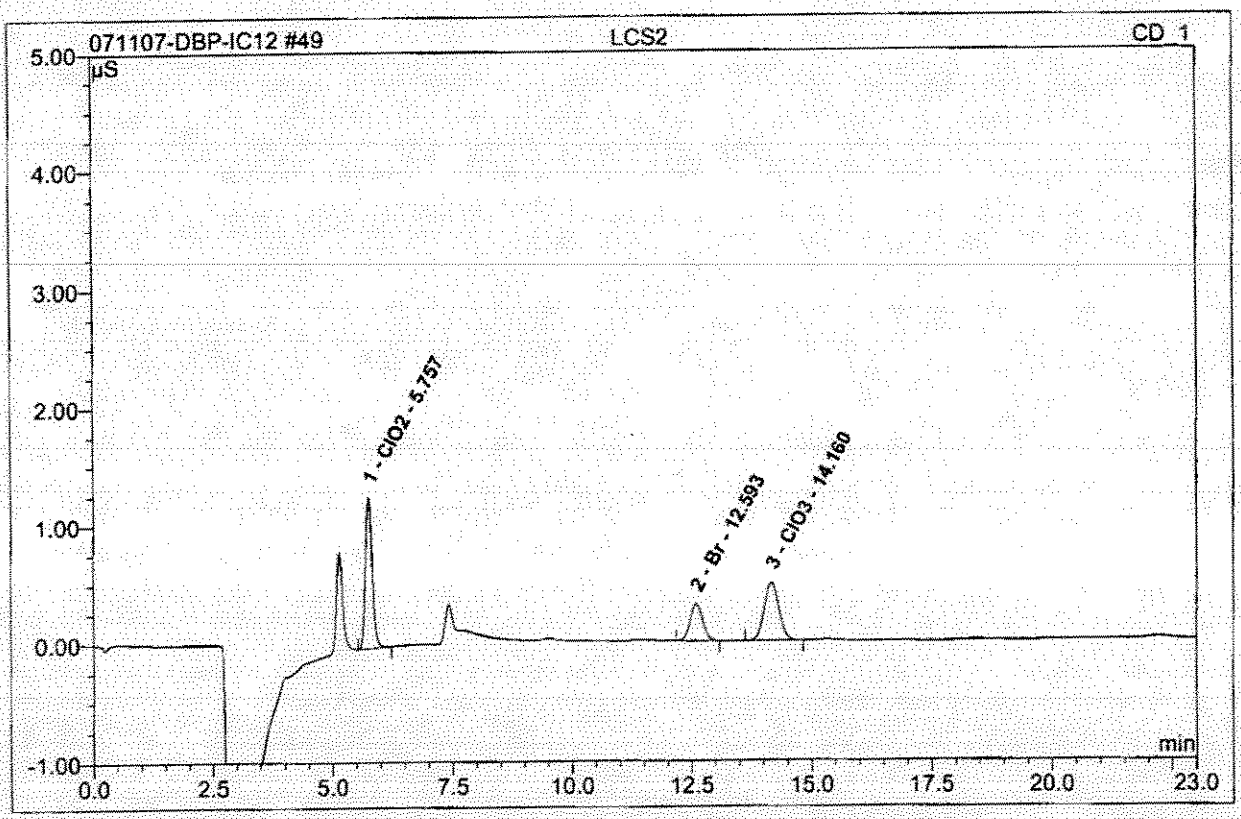
Sample Name:	**LCS1**	*Injection Volume:*	**1000.0**
Vial Number:	**592**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 6:48**	*Sample 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
1	5.76	ClO2	1.296	0.208	43.08	211.028	BMB
2	12.60	Br	0.312	0.095	19.70	101.388	BMB
3	14.17	ClO3	0.497	0.179	37.22	204.280	BMB
Total:			2.105	0.482	100.00	516.696	

49 LCS2

Sample Name:	**LCS2**	*Injection Volume:*	**1000.0**
Vial Number:	**593**	*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:	**7/12/2007 7:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**

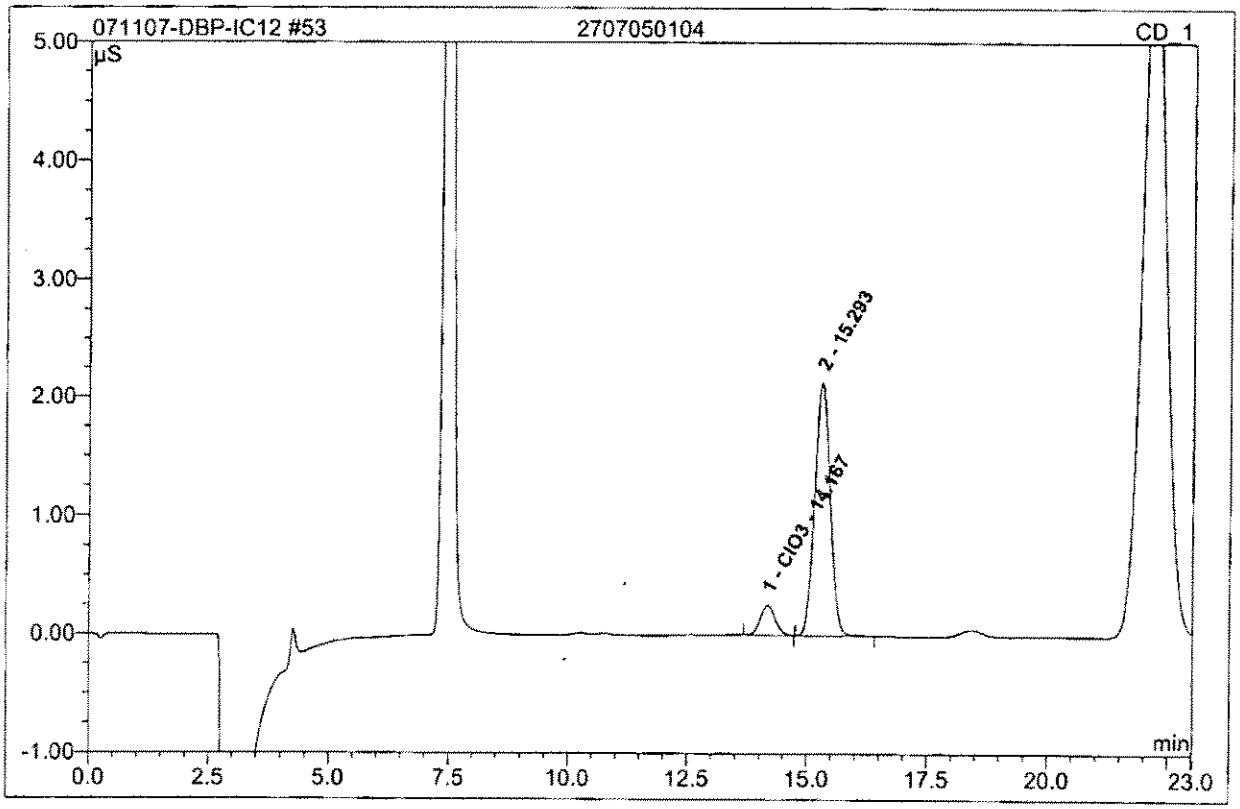


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.76	ClO2	1.283	0.205	43.30	208.537	BMB
2	12.59	Br	0.311	0.095	19.95	100.969	BMB
3	14.16	ClO3	0.490	0.174	36.75	198.352	BMB
Total:			2.083	0.474	100.00	507.859	

53 2707050104

CLO2/CLO3

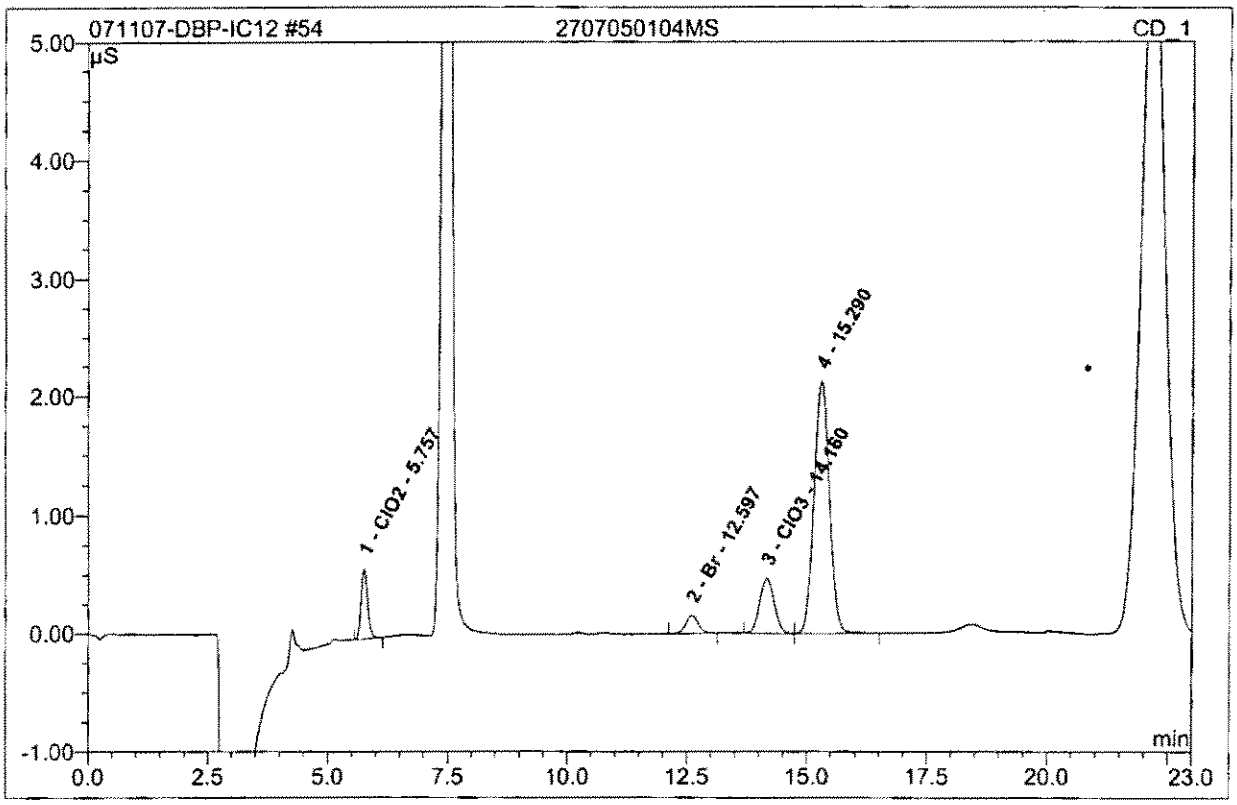
Sample Name:	**2707050104**	*Injection Volume:*	**1000.0**
Vial Number:	**597**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 8:55**	*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	14.17	ClO3	0.251	0.092	10.31	105.122	BMB
2	15.29	n.a.	2.132	0.797	89.69	n.a.	BMB
Total:			2.383	0.888	100.00	105.122	

54 2707050104MS

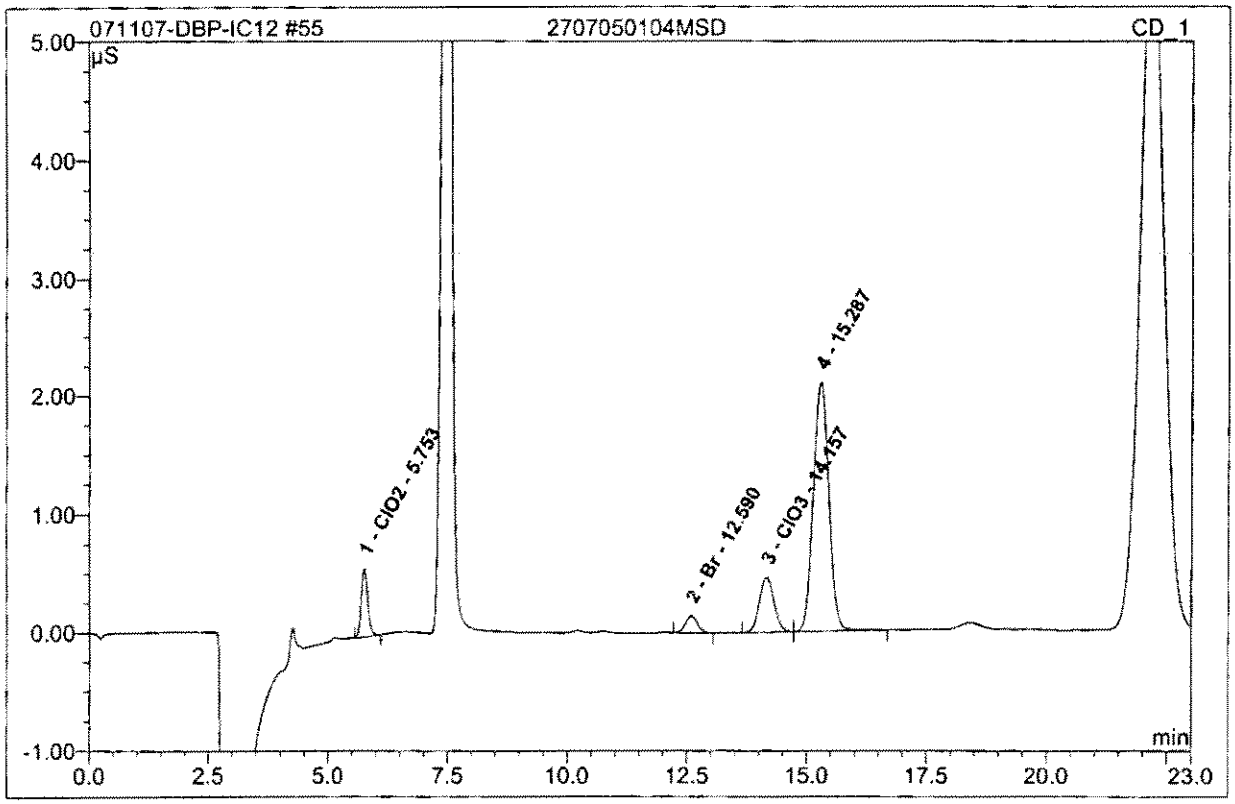
Sample Name:	**2707050104MS**	*Injection Volume:*	**1000.0**
Vial Number:	**598**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 9:20**	*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	5.76	ClO2	0.598	0.093	8.47	95.513	BMB
2	12.60	Br	0.151	0.047	4.26	50.821	BMB
3	14.16	ClO3	0.468	0.165	14.98	187.748	BMB
4	15.29	n.a.	2.123	0.796	72.29	n.a.	BMB
Total:			3.340	1.100	100.00	334.082	

55 2707050104MSD

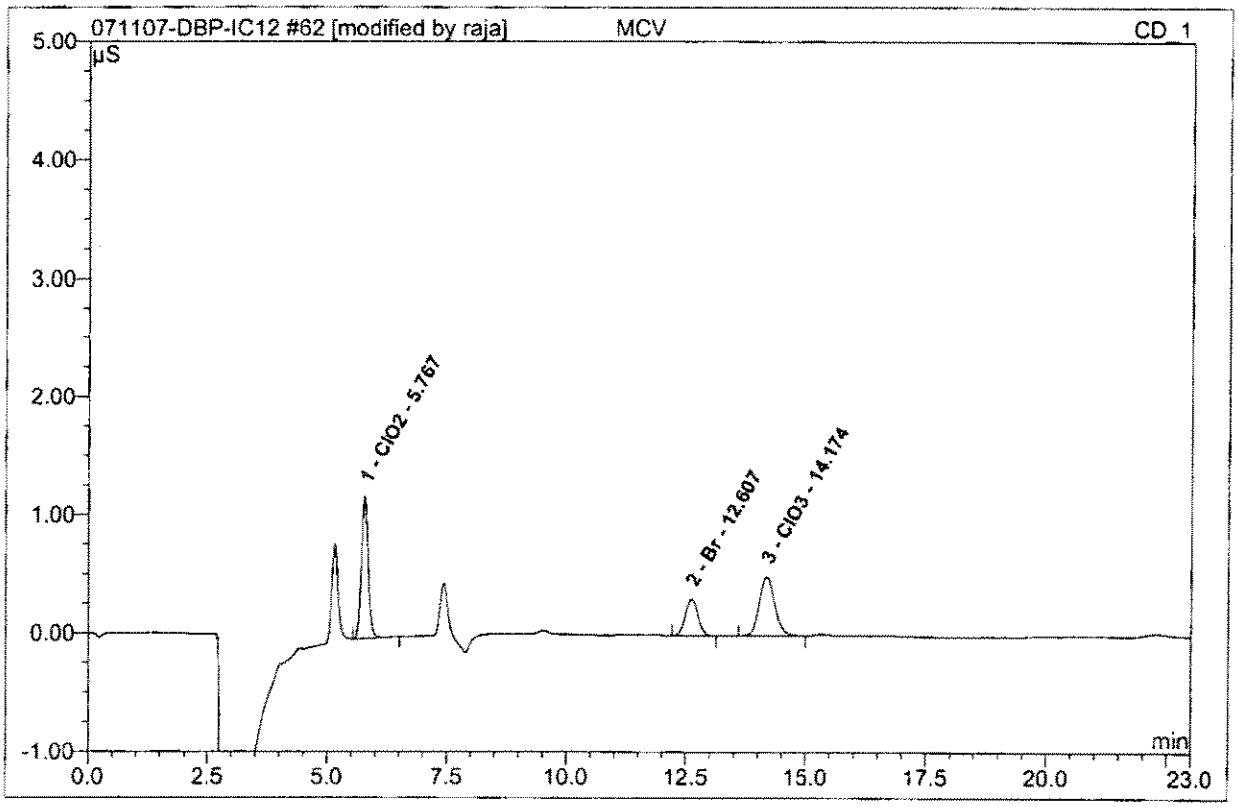
Sample Name:	**2707050104MSD**	*Injection Volume:*	**1000.0**
Vial Number:	**599**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 9:46**	*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	5.75	ClO2	0.580	0.090	8.28	92.415	BMB
2	12.59	Br	0.142	0.043	3.92	46.329	BMB
3	14.16	ClO3	0.464	0.165	15.15	187.922	BM
4	15.29	n.a.	2.101	0.791	72.65	n.a.	MB
Total:			3.288	1.089	100.00	326.667	

62 MCV

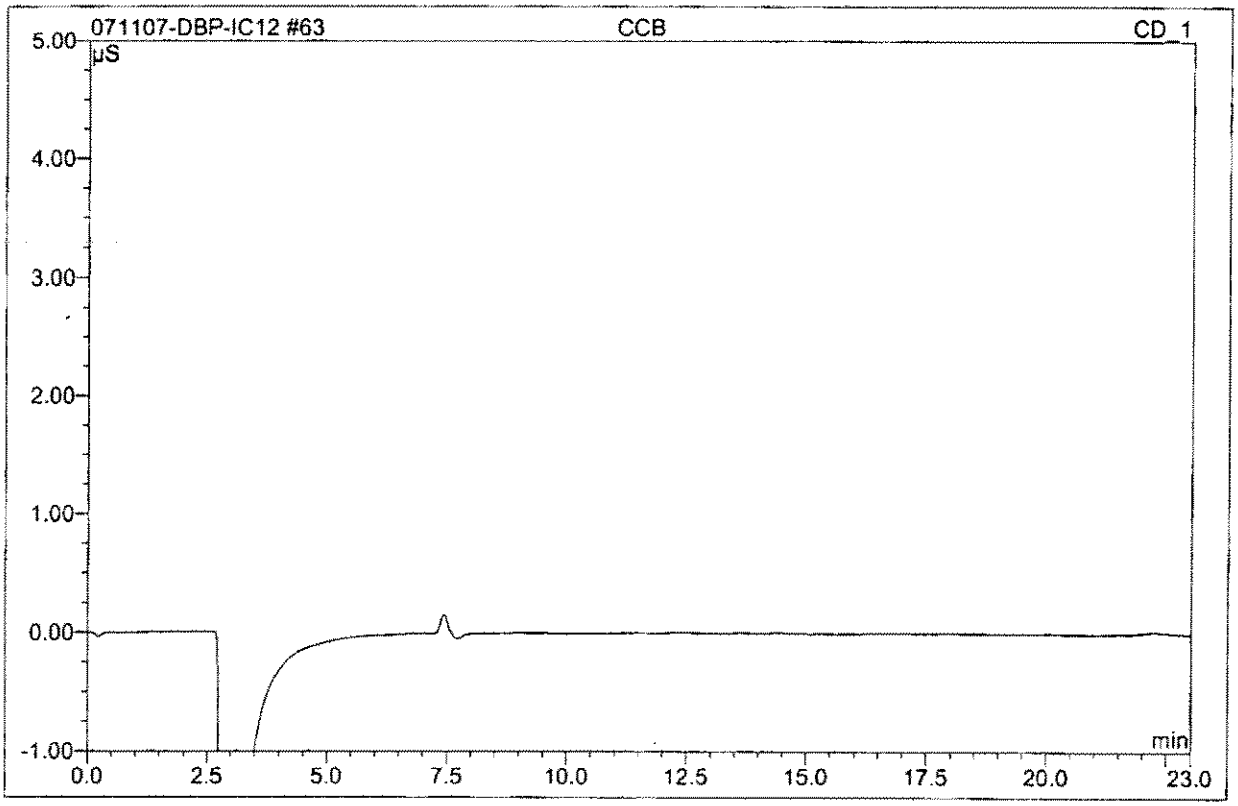
Sample Name:	**MCV**	*Injection Volume:*	**1000.0**
Vial Number:	**606**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 12:43**	*Sample 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	5.77	ClO2	1.205	0.195	41.19	198.447	BMB
2	12.61	Br	0.306	0.093	19.64	99.407	BMB
3	14.17	ClO3	0.497	0.186	39.17	211.226	BMB*
Total:			2.009	0.474	100.00	509.081	

63 CCB

Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**599**	*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:	**7/12/2007 13:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**

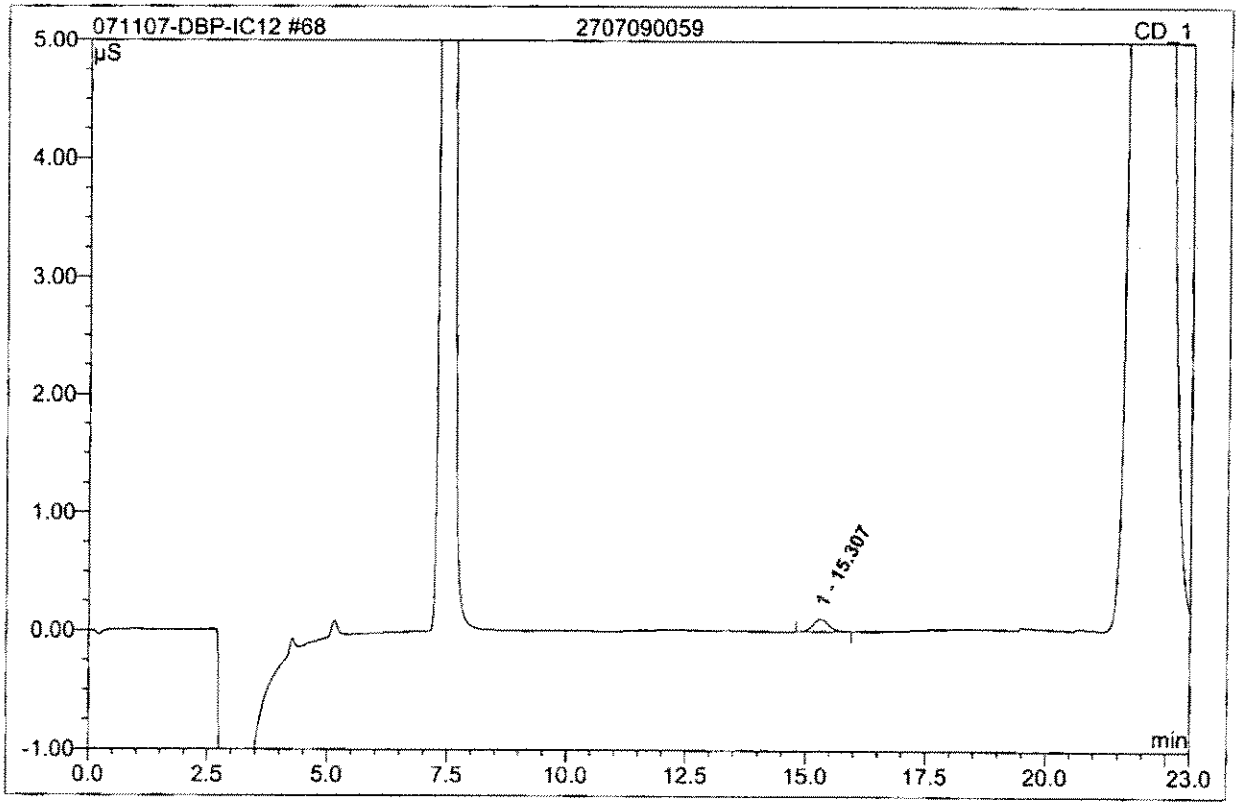


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

68 2707090059

CLO2/CLO3

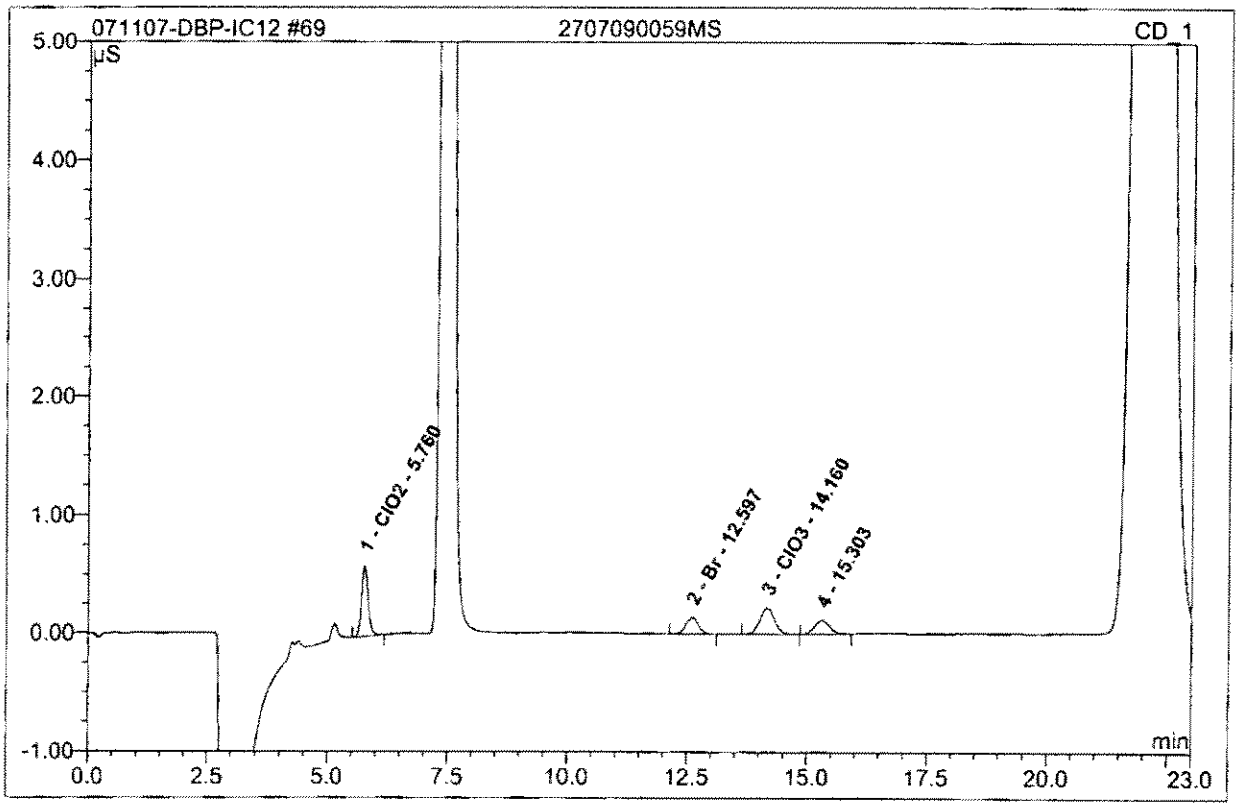
Sample Name:	**2707090059**	*Injection Volume:*	**1000.0**
Vial Number:	**786**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 15:16**	*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	15.31	n.a.	0.108	0.041	100.00	n.a.	BMB
Total:			0.108	0.041	100.00	0.000	

69 2707090059MS

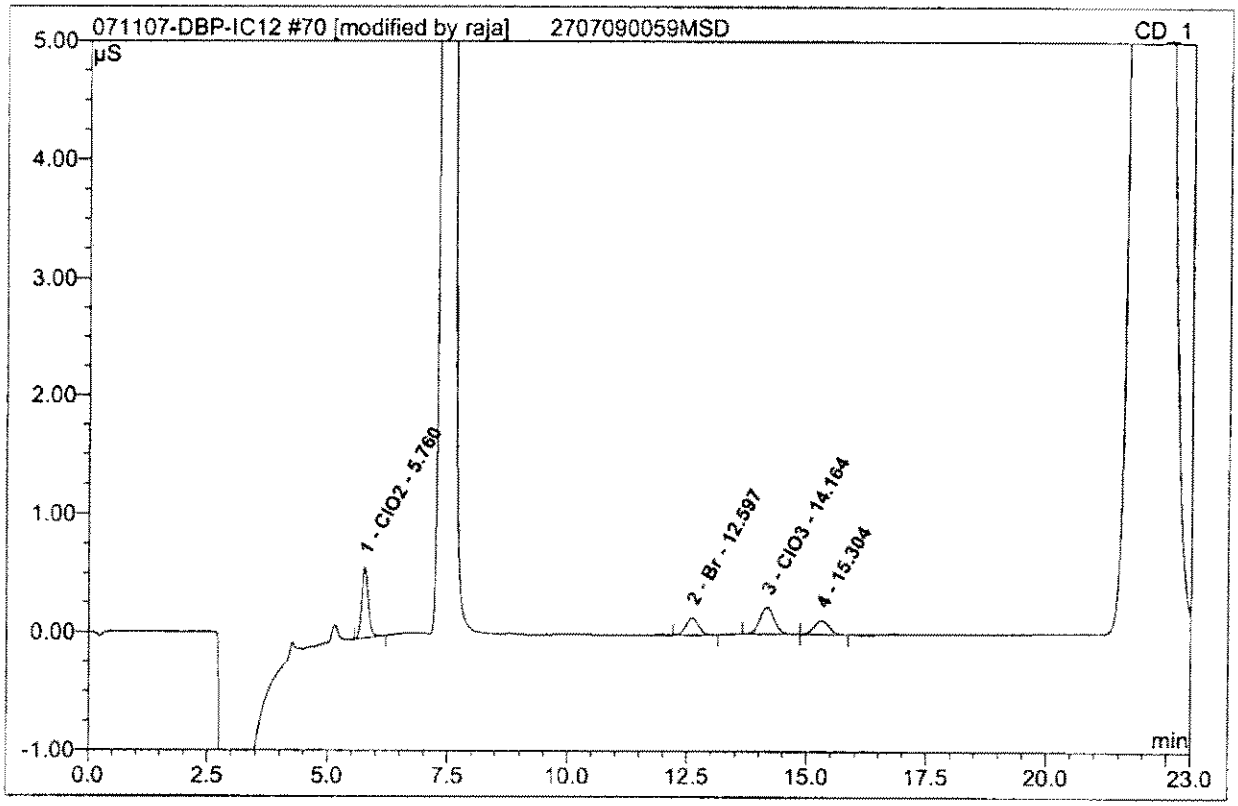
Sample Name:	**2707090059MS**	*Injection Volume:*	**1000.0**
Vial Number:	**787**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 15:41**	*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	5.76	ClO2	0.599	0.095	35.79	96.911	BMB
2	12.60	Br	0.144	0.044	16.63	47.688	BMB
3	14.16	ClO3	0.225	0.082	30.98	94.252	BMB
4	15.30	n.a.	0.119	0.044	16.60	n.a.	BMB
Total:			1.087	0.264	100.00	238.851	

70 2707090059MSD

Sample Name:	**2707090059MSD**	*Injection Volume:*	**1000.0**
Vial Number:	**788**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 16:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**

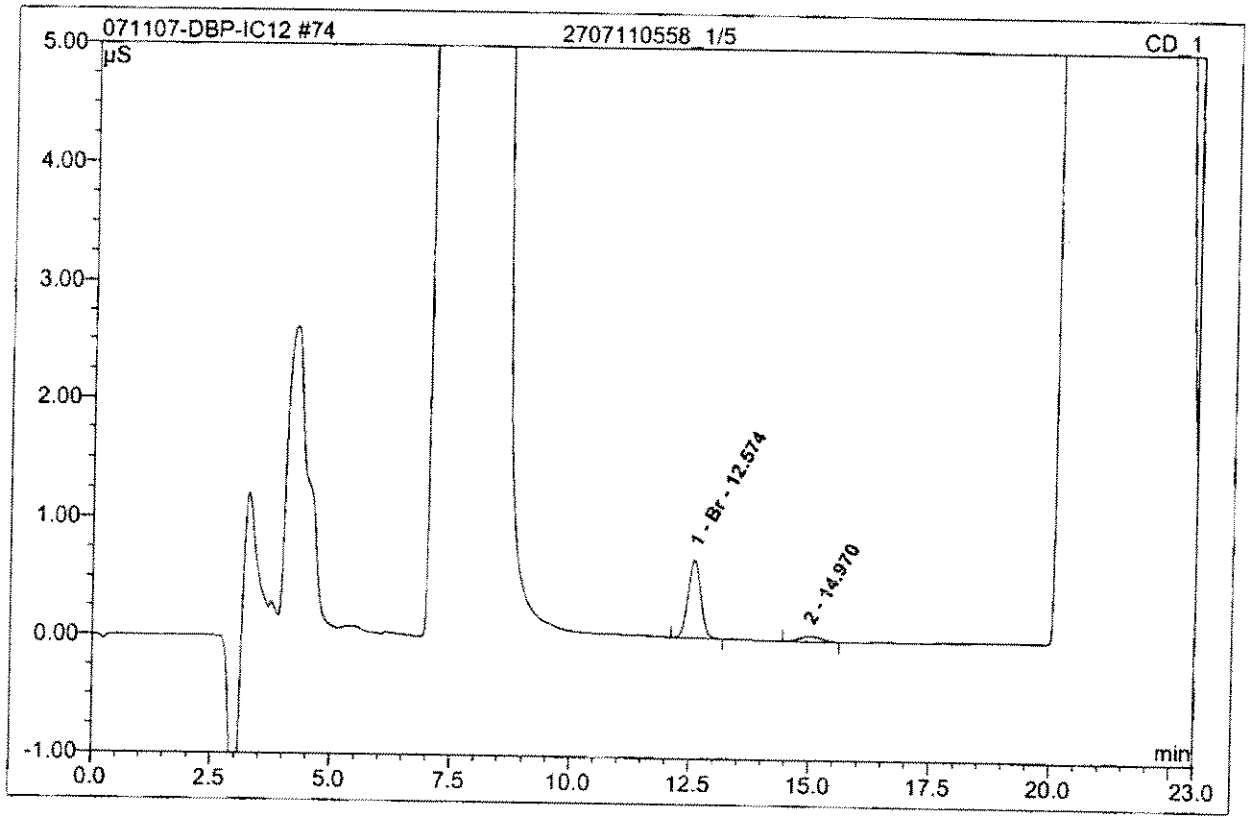


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.76	ClO2	0.597	0.094	35.55	96.164	BMB
2	12.60	Br	0.145	0.044	16.78	48.077	BMB*
3	14.16	ClO3	0.226	0.081	30.80	93.638	BM *
4	15.30	n.a.	0.119	0.045	16.87	n.a.	MB*
Total:			1.087	0.264	100.00	237.878	

74 2707110558_1/5

CLO3

Sample Name:	**2707110558_1/5**	*Injection Volume:*	**1000.0**
Vial Number:	**787**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**5.0000**
Recording Time:	**7/12/2007 17:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**

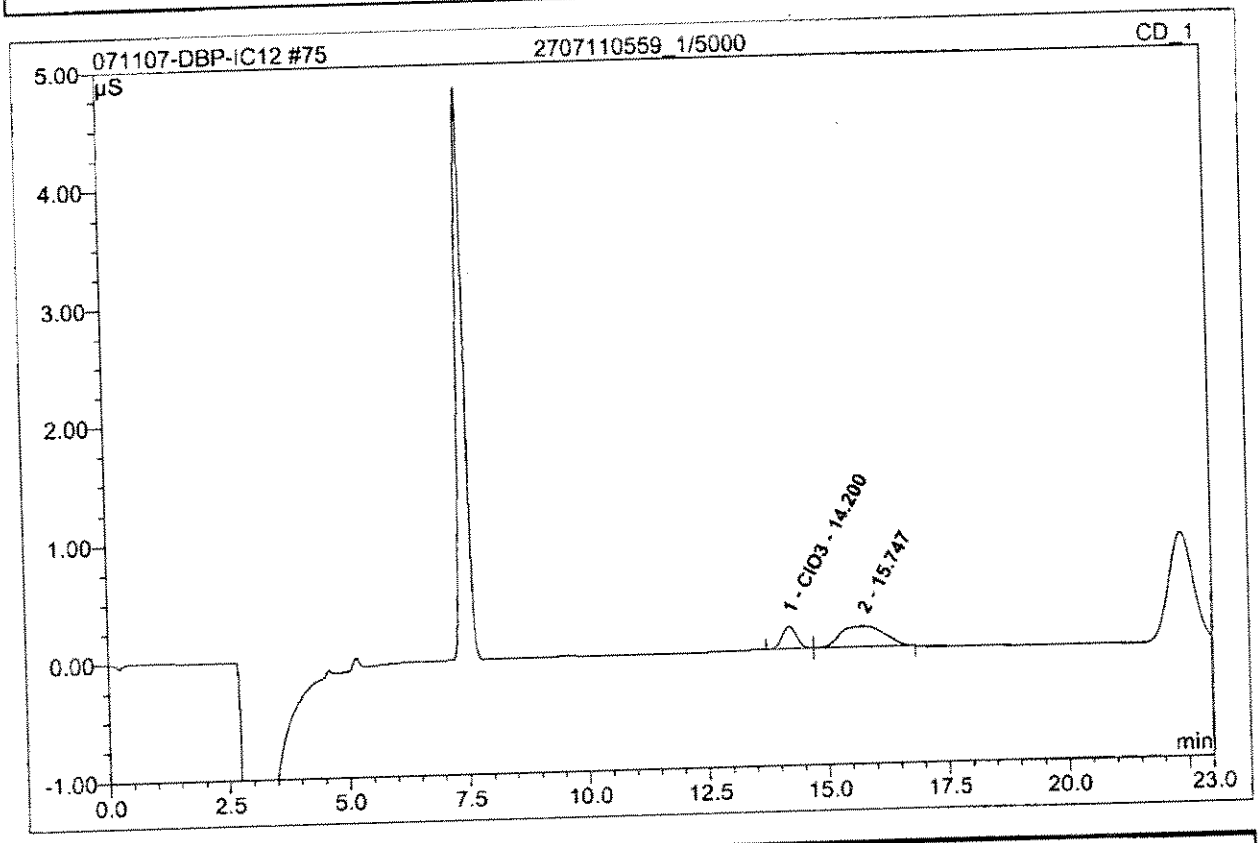


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	12.57	Br	0.665	0.202	89.85	1065.361	BMB
2	14.97	n.a.	0.043	0.023	10.15	n.a.	BMB
Total:			0.708	0.225	100.00	1065.361	

75 2707110559_1/5000

CLO3

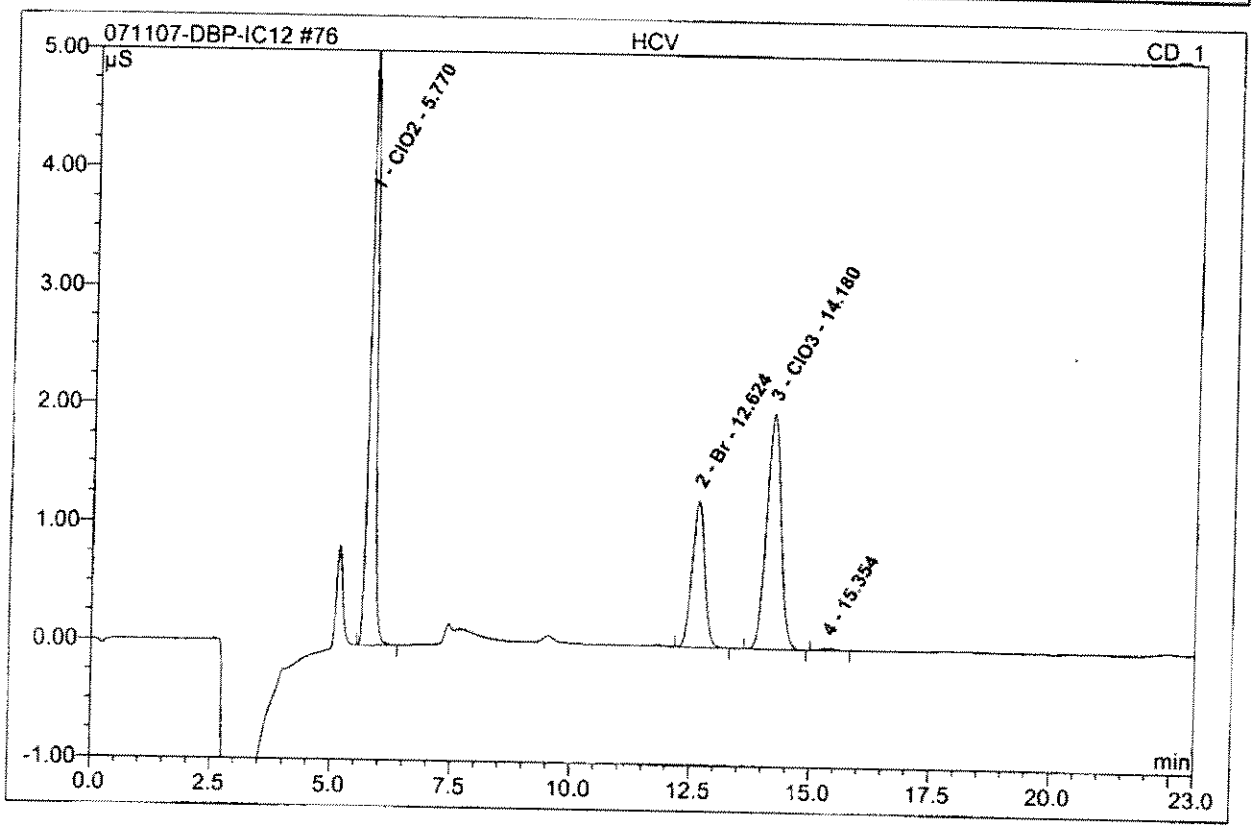
Sample Name:	**2707110559_1/5000**	*Injection Volume:*	**1000.0**
Vial Number:	**788**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**5000.0000**
Recording Time:	**7/12/2007 18:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	14.20	ClO3	0.191	0.068	26.45	#########	BM
2	15.75	n.a.	0.176	0.189	73.55	n.a.	MB
Total:			0.367	0.258	100.00	#########	

76 HCV

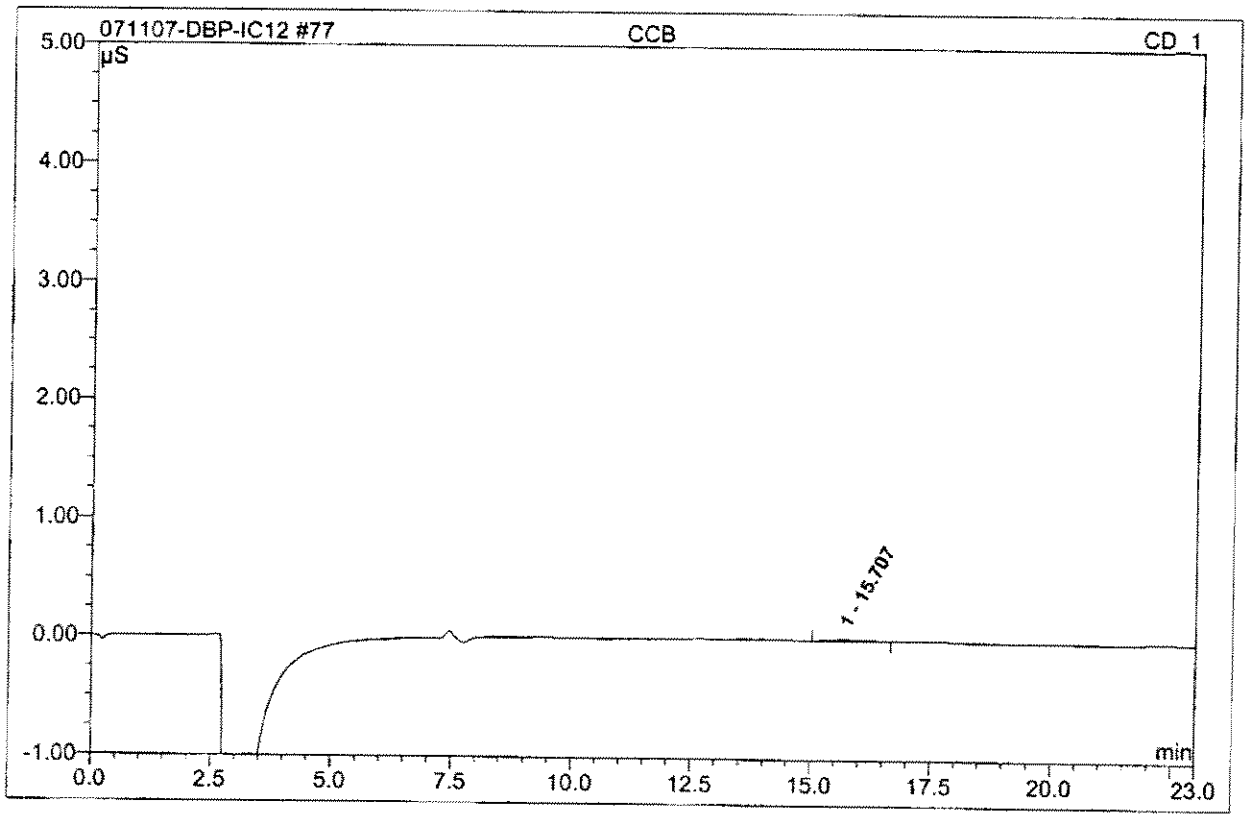
Sample Name:	**HCV**	*Injection Volume:*	**1000.0**
Vial Number:	**789**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 18:39**	*Sample 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	5.77	ClO2	5.046	0.809	42.62	793.536	BMB
2	12.62	Br	1.237	0.378	19.91	392.592	BMB
3	14.18	ClO3	1.987	0.704	37.08	790.419	BMB
4	15.35	n.a.	0.020	0.007	0.39	n.a.	BMB
Total:			8.290	1.898	100.00	1976.546	

77 CCB

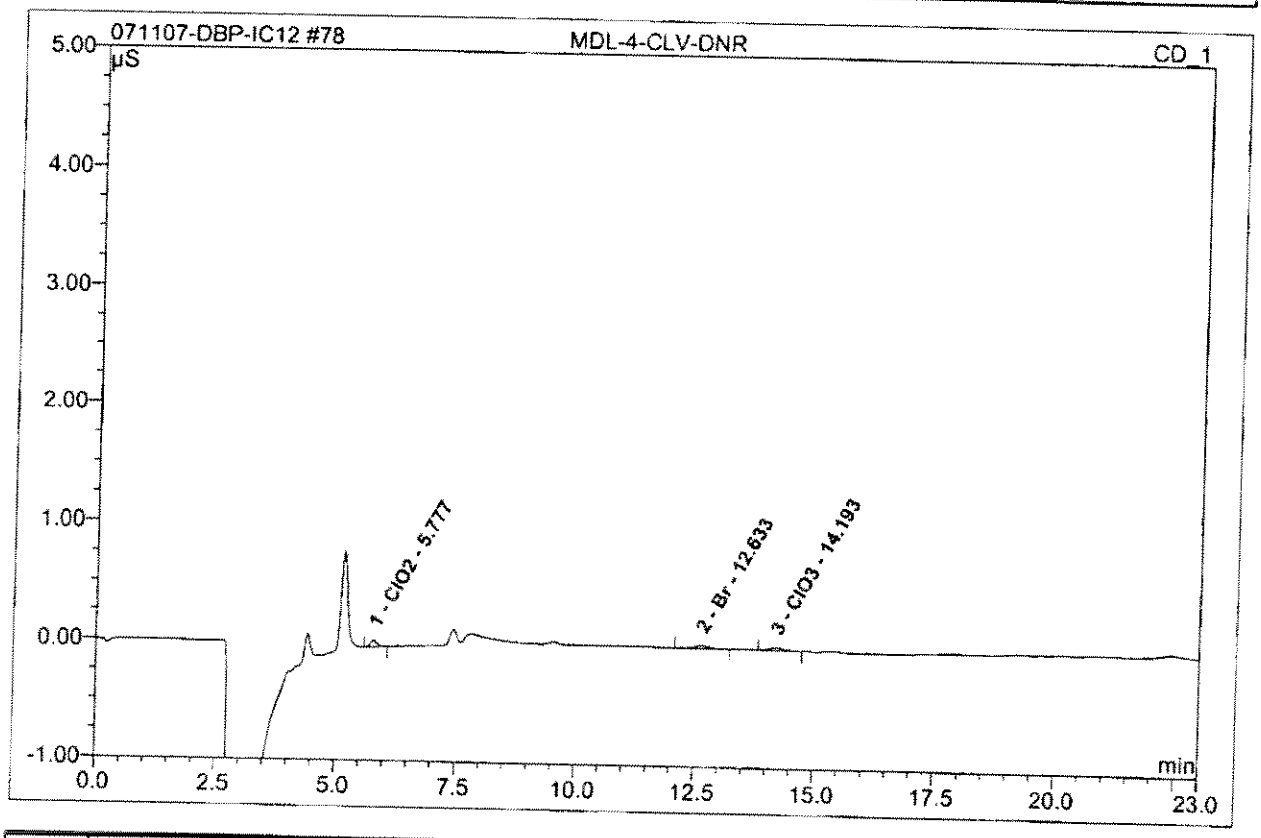
Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**790**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 19:04**	*Sample 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	15.71	n.a.	0.013	0.012	100.00	n.a.	BMB
Total:			0.013	0.012	100.00	0.000	

78 MDL-4-CLV-DNR

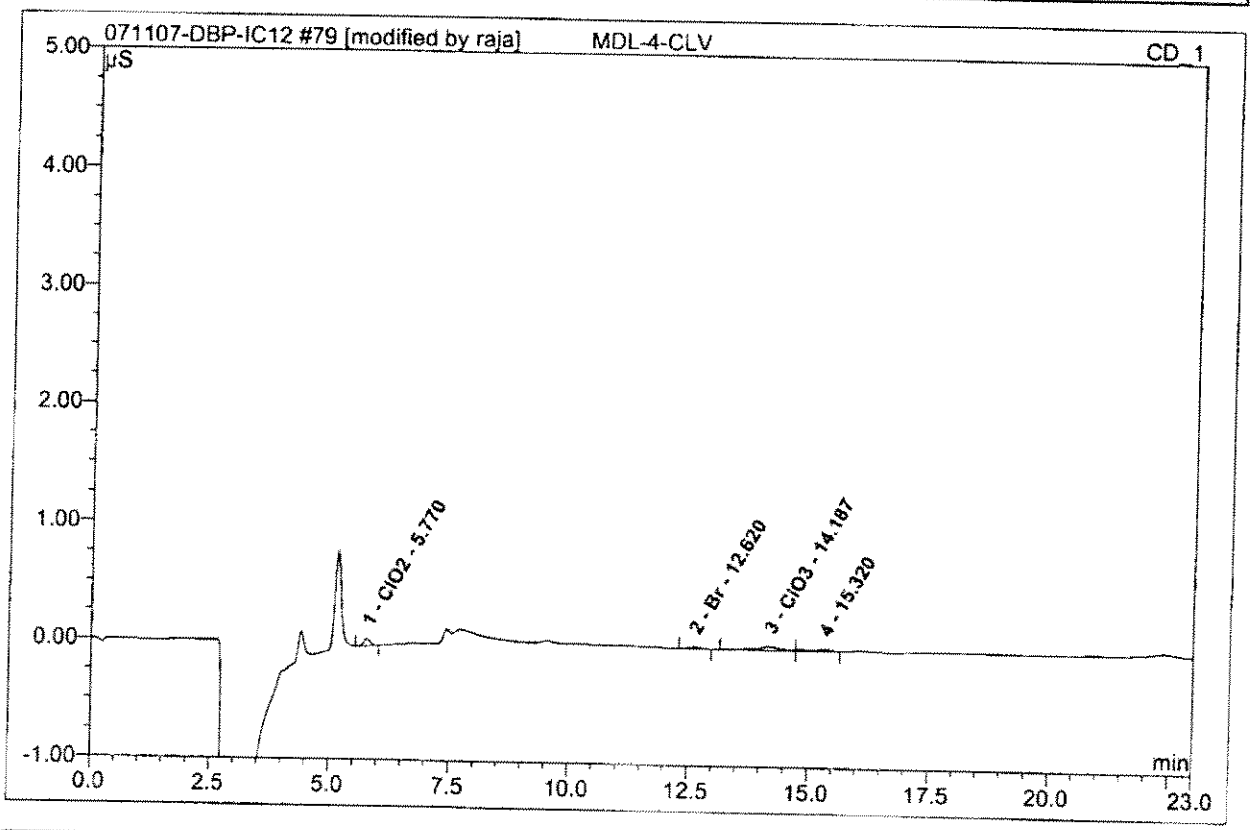
Sample Name:	**MDL-4-CLV-DNR**	*Injection Volume:*	**1000.0**
Vial Number:	**791**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 19:30**	*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	5.78	ClO2	0.059	0.009	35.41	10.041	BMB
2	12.63	Br	0.023	0.009	32.15	10.279	BMB
3	14.19	ClO3	0.024	0.009	32.43	11.527	BMB
Total:			0.106	0.027	100.00	31.847	

79 MDL-4-CLV

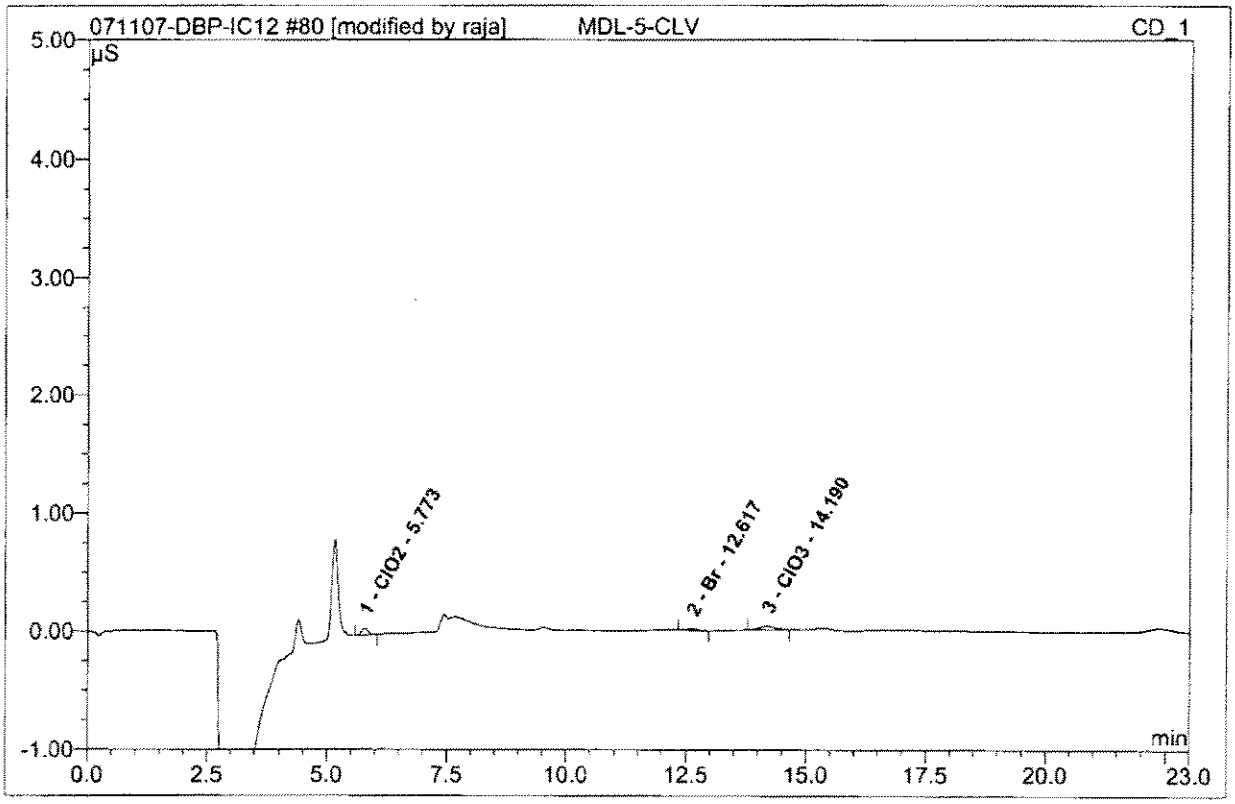
Sample Name:	**MDL-4-CLV**	*Injection Volume:*	**1000.0**
Vial Number:	**790**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 19:55**	*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	5.77	ClO2	0.057	0.009	23.06	9.809	BMB
2	12.62	Br	0.014	0.004	9.94	5.382	BMB*
3	14.19	ClO3	0.031	0.018	45.63	22.418	BM
4	15.32	n.a.	0.016	0.009	21.37	n.a.	MB
Total:			0.118	0.040	100.00	37.609	

80 MDL-5-CLV

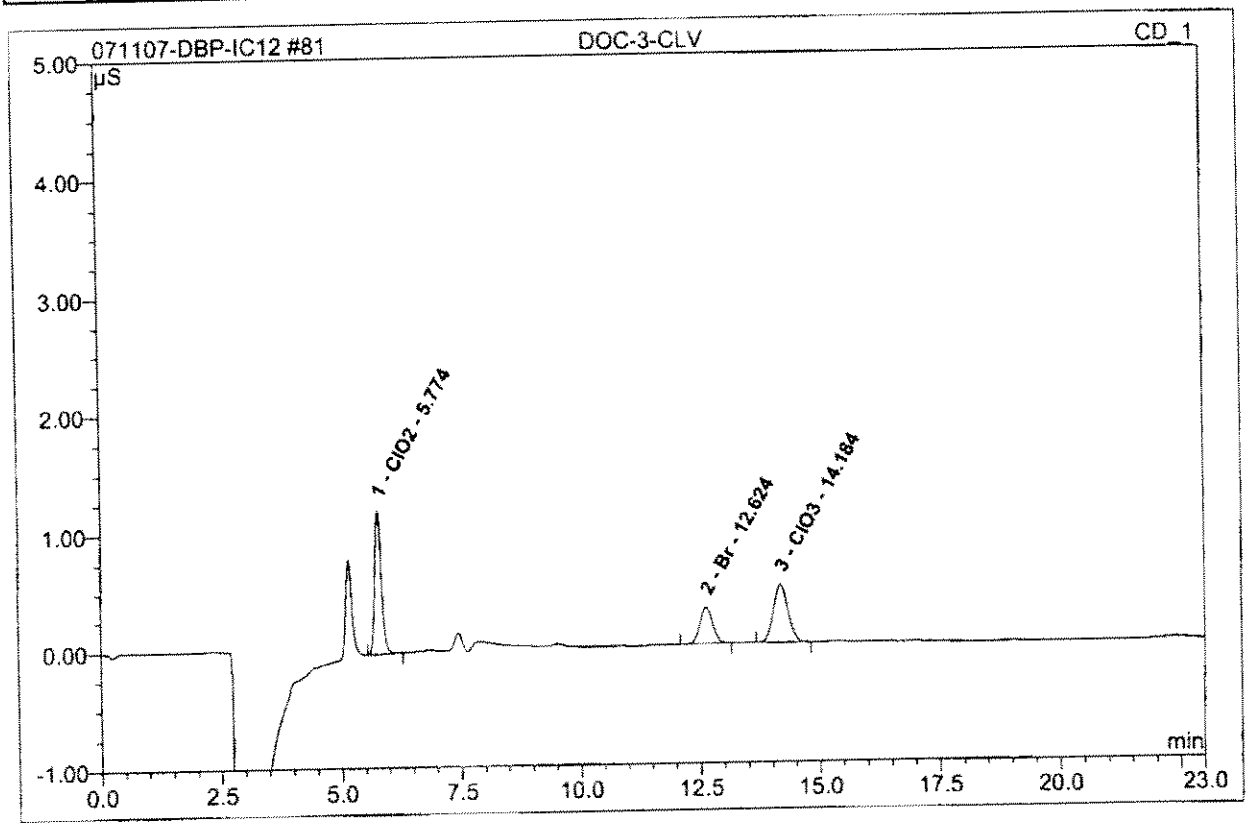
Sample Name:	**MDL-5-CLV**	*Injection Volume:*	**1000.0**
Vial Number:	**790**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/12/2007 20:20**	*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	5.77	ClO2	0.058	0.009	38.57	9.682	BMB
2	12.62	Br	0.013	0.003	14.78	4.861	BMB*
3	14.19	ClO3	0.029	0.011	46.64	14.194	BMB*
Total:			0.100	0.024	100.00	28.737	

81 DOC-3-CLV

Sample Name:	**DOC-3-CLV**	*Injection Volume:*	**1000.0**
Vial Number:	**791**	*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:	**7/12/2007 20:46**	*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	5.77	ClO2	1.220	0.197	42.05	200.486	BMB
2	12.62	Br	0.311	0.096	20.38	102.018	BMB
3	14.18	ClO3	0.495	0.176	37.57	200.626	BMB
Total:			2.027	0.469	100.00	503.129	

Standard Preparation Worksheet & Certificate of Analysis

INORGANIC VENTURES
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inorganicventures.com

CERTIFICATE OF ANALYSIS

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info@inorganicventures.com

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:

Certified Value $(\bar{x}) = \frac{\sum x1}{n}$ $(\bar{x})$ = mean; x1 = individual results; n = number of measurements

Uncertainty $(\pm) = \frac{2[(\sum s1)2]^{1/2}}{(n)^{1/2}}$ $\sum s1$ = 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

R = 201373

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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:

Certified Value $(\bar{x}) = \frac{\sum x1}{n}$ $(\bar{x})$ = mean, x1 = individual results, n = number of measurements

Uncertainty $(\pm) = \frac{2[(\sum s1)2]^{1/2}}{(n)^{1/2}}$ $\sum s1$ = 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

Reagent Documentation

Reagent: Conductivity Std. - 1,000 ppm
Date Received: 3 May 06
Date Expired: Jan 07
Manufacturer: Ricca Chemical
Storage Condition: room temp

Reagent #: 201372
By: LMR
Matrix: aq
Amount: 4-L
Lot #: 1601439

Component	Comment	Standard	Concentration
	VWR# RC2243-1		

Comment:

Reagent: Bromide - 1000 ppm Std
Date Received: 4 May 06
Date Expired: 1 Jun 07
Manufacturer: Inorganic Ventures
Storage Condition: room temp

Reagent #: 201373
By: LMR
Matrix: aq
Amount: 125 ml
Lot #: Y-BR01067

Component	Comment	Standard	Concentration
	IV# ICBR1-1		

Comment:

Reagent: Chloride - 1000 ppm std
Date Received: 4 May 06
Date Expired: 1 Jun 07
Manufacturer: Inorganic Ventures
Storage Condition: refrigerate 4±2°C

Reagent #: 201374
By: LMR
Matrix: aq
Amount: 125 ml
Lot #: Y-CLOX01034

Component	Comment	Standard	Concentration
	IV# ICCL031-1		

Comment:

R = 201375

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I-CAL ION CHROMATOGRAPHY SOLUTION 1000 µg/mL Chlorite in H_2O

Catalog No: ICCLO21-1and 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 ClO_2^-. The value of Cl^- is 6 ± 1 µg/mL, and the value of ClO_3^- 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:

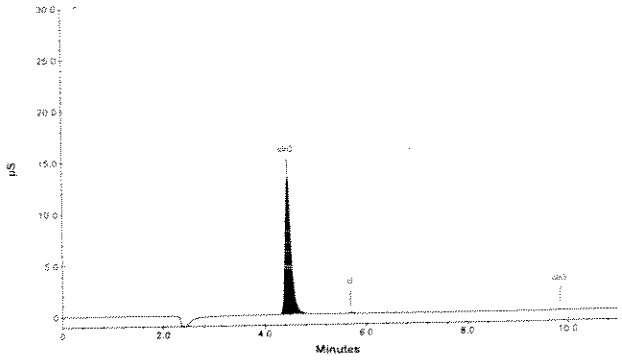
$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n} \qquad \text{Uncertainty } (\pm) = \frac{2[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$$

$(\bar{x})$ = 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.

ClO_2^- 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 Na_2CO_3
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 03200BATM

Paul R Haines
Quality Assurance Manager

Expires: EXPIRES 1 Jan 2007

Reagent Documentation

Reagent: Chlorite - 1000 ppm std
Date Received: 4 May 06
Date Expired: 1 Jun 07
Manufacturer: Inorganic Ventures
Storage Condition: refrigerate 4±2°C

Reagent #: 201375
By: LMR
Matrix: aq
Amount: 125 ml
Lot #: Y-CLOX01036

Component	Comment	Standard	Concentration
	IV # ICCLO21-1		

Comment:

Reagent: Ammonium Std - 1000 ppm as NH_4
Date Received: 4 May 06
Date Expired: 3 Oct 07
Manufacturer: CPI
Storage Condition: refrigerate 4±2°C

Reagent #: 201376
By: LMR
Matrix: aq
Amount: 100 ml
Lot #: 06D002

Component	Comment	Standard	Concentration
	CPI # 4400-010010		

Comment:

Reagent: Methylene Blue 1% w/v solution
Date Received: 10 May 06
Date Expired: 30 Nov 07
Manufacturer: VWR
Storage Condition: room temp

Reagent #: 201377
By: LMR
Matrix: aq
Amount: 100 ml
Lot #: 5319

Component	Comment	Standard	Concentration
	VWR # VW6276-0		

Comment

Reagent Preparation Documentation

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

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

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

Comment:

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

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

Component	Comment	Standard	Concentration
DBP Cal. Stock Soln	100 uL of Dilute with D.I. water to 100ml	Raja060520-2	Br-5ppb ClO_2/ClO_3-10ppb
EDA Solution	50 uL	LMR060129-12	

Comment:

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

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

Component	Comment	Standard	Concentration
DBP Cal. Stock Soln	200 uL of Dilute to 100ml with D.I. water	Raja060520-2	Br - 10ppb ClO_2 - 20ppb
EDA	50 uL	LMR060129-12	ClO_3 - 20ppb

Comment:

Reagent Preparation Documentation

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

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

Component	Comment	Standard	Concentration
DBP Cal. stock soln	1ml } Dilute to 100ml with D.I. water	Raja060520-2	Br - 50ppb
			ClO_2 - 100ppb
EDA	50uL	LMR060129-12	ClO_3 - 100ppb

Comment:

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

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

Component	Comment	Standard	Concentration
DBP Cal. Stock Soln	2ml } Dilute to 100ml with D.I. water	Raja060520-2	Br - 100ppb
			ClO_2 - 200ppb
EDA	50uL	LMR060129-12	ClO_3 - 200ppb

Comment:

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

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

Component	Comment	Standard	Concentration
DBP Cal. Stock Soln	4ml } with D.I. water dilute to 100ml	Raja060520-2	Br - 200ppb
			ClO_2 - 400ppb
EDA	50uL	LMR060129-12	ClO_3 - 400ppb

Comment:

Reagent Preparation Documentation

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

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

Component	Comment	Standard	Concentration
DBP Cal. Stock Soln	8ml } Dilute to 100ml with D.I. water	Raja060520-2	Br- 400ppb
			ClO_2- 800ppb
EDA	50 uL }	LMR060129-12	ClO_3- 800ppb

Comment:

Reagent: DBP LCS Stock Solution
Date Received/Prepped: 032207/041007/050107/051707/053007/070207
Date Expired: 042207/051007/060107/061707/063007/080107
Manufacturer:
Storage Condition:

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

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

Comment:

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

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

Component	Comment	Standard	Concentration
DBP LCS Stock Soln	2ml } Dilute to 100ml with D.I. water	Raja070322-1	Br- 100ppb
			ClO_2- 200ppb
EDA	50uL }	LMR060129-12	ClO_3- 200ppb

Comment: