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Level IV Data Package

MWH Group 212470

Method: 314 CLO4

Sample No.:

2708070418
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2708070434
2708070437
2708070439
2708070440
2708070441
2708070442

Perchlorate QC Checklist

rev: 27 Mar 03

Analysis Date: 8/14/07 **Analyst:** CL

QC'd by [illegible] **Date** 15 Aug 07

Instrument: IC11 **Calculated MCT Level:** 3155 umhos/cm

Original IPC conductance: 3105 umhos/cm **Daily IPC conductance:** 3105 umhos/cm

Calibration including QCS

- ✓ QCS (20ppb) recovery is within 90% - 110% (18-22ppb) to verify that the calibration curve (minimum 5 points) still holds.
- ✓ Calibration curve is reanalyzed if QCS fails. Correlation Coefficient is 0.995 or better.

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

- ✓ MLBANK is analyzed before samples. Perchlorate, if present, is < or = half of the MRL.
- ✓ *L-ClO4 only*: ICCSCV at 2ppb is within 50%-150% (1-3ppb)
- ✓ *ClO4 only*: MRL at 4ppb is within 75%-125% (3-5ppb)
- ✓ IPC (25ppb) recovery is between 80%-120% (20-30ppb)
- ✓ IPC retention time is within 5% of the retention time of the standards
- ✓ IPC Conductance level is within 10% of the original

$PDA/_H$ = 2.6 ✓

LCS/LCSD (25ppb)

- ✓ Recoveries are between 90%-110% (22.5 – 27.5ppb)
- ✓ One pair is analyzed per batch (up to 20 samples) or part thereof

MS/MSD (25ppb) NOTE: For UCMR, MS/MSD concentrations alternate between 4ppb and 25ppb

- ✓ Recoveries are within 80%-120% (20-30ppb) for 25ppb spike N/A (3.2-4.8ppb) for 4ppb spike
- ✓ One pair is analyzed per batch (up to 20 samples) or part thereof
- ✓ RPD between MS and MSD is within 15%.

Continuing Calibration Verification (MCV, HCV) NOTE: For UCMR ECV and MCV are required

- ✓ Verification Checks alternate between mid- and high-level during the analysis (low- and mid-level for UCMR)
- ✓ MCV (25ppb) recovery is between 85%-115% (21.25 – 28.75ppb)
- ✓ HCV (100ppb) recovery is between 85%-115% (85-115ppb) N/A ECV (4ppb) recovery is between 75%-125% (3.0-5.0)

Pretreat and include the following QC parameters for any batch or part thereof containing samples requiring pretreatment

- — One Laboratory Reagent Blank (LRB). Perchlorate is < or = half of MRL.
- N/A One pair of Laboratory Control Samples (LCS/LCSD). Recovery of perchlorate is between 85%-115%.
- — One Pair of Laboratory Fortified Matrices (MS/MSD). Recoveries are between 80%-120%

Samples

- ✓ All samples are analyzed within 28 days of collection.
- — All samples are analyzed within MCT Conductance limit.

QIR

- N/A QIR needed for failed QC
- — QIR needed for samples analyzed outside of hold time

Sample No.	Sample Name	Dil.Fac.	Comment	Time	Amount CLO4 CD_1	
1	WASH	1.0	0	08.10.07 11:05	n.a.	
2	WASH	1.0	0	08.10.07 11:27	n.a.	
3	WASH	1.0	0	08.10.07 11:50	n.a.	
4	autocal1	1.0	0	08.10.07 12:12	n.a.	
5	autocal2	1.0	2	08.10.07 12:34	2.5852	
6	autocal3	1.0	4	08.10.07 12:57	3.9662	
7	autocal4	1.0	10	08.10.07 13:19	9.4891	
8	autocal5	1.0	25	08.10.07 13:42	24.5774	
9	autocal6	1.0	50	08.10.07 14:04	50.4728	
10	autocal7	1.0	100	08.10.07 14:26	99.9098	
11	QCS	1.0	20	08.10.07 14:49	18.6814	93.4%
12	IPC	1.0	25	08.10.07 15:11	21.4628	85.8%
13	-MBLK	1.0		08.10.07 15:34	n.a.	ND < 1/2 MRV
14	-MRLCHK-2	1.0	2	08.10.07 17:07	2.0031	100%
15	-MRLCHK-4	1.0	4	08.10.07 17:29	✓4.3482	109%
16	-LCS1	1.0	25	08.10.07 17:52	✓23.5836	94.3%
17	-LCS2	1.0	25	08.10.07 18:14	✓24.1687	96.7%
18	2708070418_1/5 DNR	5.0		08.10.07 18:36	176.7640	DNR
19	2708070422_1/2500 ✓	2500.0		08.10.07 18:59	✓78546.1444	
20	2708070423_1/10000 ✓	10000.0		08.10.07 19:21	✓327122.7798	
21	2708070424_1/10000 ✓	10000.0		08.10.07 19:43	✓294562.0546	
22	2708070425_1/5000 ✓	5000.0		08.10.07 20:06	✓82342.3120	
23	2708070426_1/5000 ✓	5000.0		08.10.07 20:28	✓129574.7463	
24	2708070427_1/10000 DNR	10000.0		08.10.07 20:51	317078.7909	DNR
25	2708070428_1/500 ✓	500.0		08.10.07 21:13	✓11443.2161	
26	2708070429_1/500 ✓	500.0		08.10.07 21:36	✓10603.6993	
27	2708070430_1/500 ✓	500.0		08.10.07 21:58	✓ 7881.0937	
28	2708070430-MS	500.0	25	08.10.07 22:21	✓ 21207.9148	26.6/107%
29	2708070430-MSD	500.0	25	08.10.07 22:43	✓20324.1481	24.9/99.5%
30	CCV	1.0	25	08.10.07 23:05	23.3436	93.4%
31	2708070431_1/100 DNR	100.0		08.10.07 23:28	n.a.	
32	2708070432_1/5 DNR	5.0		08.10.07 23:50	11.4006	> DNR
33	2708070433_1/100 ✓	100.0		08.11.07 00:13	✓ 2832.5546	
34	2708070434_1/200 ✓	200.0		08.11.07 00:35	✓9275.3096	
35	2708070437_1/100 DNR	100.0		08.11.07 00:58	4404.7626	DNR
36	2708070439_1/100 ✓	100.0		08.11.07 01:20	✓2018.6001	
37	2708070440_1/100 ✓	100.0		08.11.07 01:42	✓1317.1205	
38	2708070441_1/100 ✓	100.0		08.11.07 02:04	✓ 3737.7052	
39	2708070442_1/10000 ✓	10000.0		08.11.07 02:27	✓339459.6474	
40	2708070591_1/5	5.0		08.11.07 02:49	✓ n.a.	
41	HCV	1.0	100	08.11.07 03:11	100.6772	101%
42	IPC	1.0	25	08.11.07 03:34	21.6242	
43	-MBLK	1.0		08.11.07 03:56	n.a.	DNR
44	-MRLCHK-2	1.0	2	08.11.07 04:19	1.9810	

45	-MRLCHK-4	1.0	4	08.11.07 04:41	3.3921
46	-LCS1	1.0	25	08.11.07 05:03	25.7233
47	-LCS2	1.0	25	08.11.07 05:26	27.3664
48	2708040008_1/50000 DNR	50000.0	RR	08.11.07 05:48	791538.7316
49	2708070254 DNR	1.0	RR	08.11.07 06:11	19.5317
50	2708070254-MS DNR	1.0	25	08.11.07 06:33	24.6021
51	2708070254-MSD DNR	1.0	25	08.11.07 06:55	8.8126
52	2708060473_1/2 DNR	2.0	RR	08.11.07 07:18	n.a.
53	2708060474_1/2 DNR	2.0	RR	08.11.07 07:40	3.9226
54	2708060475_1/2 DNR	2.0	RR	08.11.07 08:03	n.a.
55	2708070270_1/10000 DNR	10000.0	RR	08.11.07 08:25	226377.9942
56	2708070595_1/10000 DNR	10000.0		08.11.07 08:47	240558.1866
57	2708030110 DNR	1.0	RR	08.11.07 09:10	n.a.
58	2708070760 DNR	1.0		08.11.07 09:32	4.6564
59	2708080198 DNR	1.0		08.11.07 09:55	n.a.
60	CCV	1.0	25	08.11.07 10:17	26.3500
61	2708080595 DNR	1.0		08.11.07 10:39	n.a.
62	2708080624 DNR	1.0		08.11.07 11:02	n.a.
63	2708080625 DNR	1.0		08.11.07 11:24	5.0107
64	2708080626 DNR	1.0		08.11.07 11:47	n.a.
65	2708080627 DNR	1.0		08.11.07 12:09	n.a.
66	2708090352 DNR	1.0		08.11.07 12:31	9.9328
67	2708090353 DNR	1.0		08.11.07 12:54	n.a.
68	2708090354 DNR	1.0		08.11.07 13:16	4.9468
69	2708090355 DNR	1.0		08.11.07 13:39	n.a.
70	HCV	1.0		08.11.07 14:01	102.5368
71	STOP	1.0		08.11.07 14:46	n.a.

DNR

MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

CONDUCTIVITY MW SOP REVISION 5
SM2510B

Analysis Date: ~~123~~ 08/10/07
Analyst: dlm
Reviewed By: ____
LIMS Check By: ____

Was QC Criteria Met: Y N
Was QIR Needed: Y N WBN 8/10/07

Time of Analysis Start: 1230 End: ____

MRL 2umhos/cm: R# ____ exp of solution: ____
KCl Std 1412 R# 201668 exp of solution 12/07
TV = 1412 µmho/cm @ 25°C for 0.0100M
Reading: 1392
Instrument: YSI Model 3200 SN:01A0504, Year Aquired 2001 New

Run #	Sample Number	Sample ID	Client	Date Collected	Temp °C	pH	Scale (µmho/mmho)	Result: Instrument	Result: Reported (µmho/cm)	Comments
Blk	Blank				7	7	ms		0.3602	
STD	MRL 2umhos/cm								—	1-3—±50% of TV
STD	KCl - 1000 mhos/cm								—	950-1050—±5% of TV
1	2708070418	ART1	KM	08/06/07				10000		
2	0422	2						15000		
3	0423	3						10000		
4	0424	4						8800		
5	0425	6						10000		
6	0426	7						14500		
7	0427	8						14600		
8	0428	RC9982/83						5900		
9	0429	115R						6200		
10	0430	116R						6200		
DUP	↓	↓						6200		RPD < 5%
11	0431	SEEP SUPPLY						5700		
12	0432	SF1						9900		
13	0433	RC117						5300		
14	0434	118						6400		
15	0437	119						5600		
16	0439	120						4600		
17	0440	121						4300		
18	0441	133						5100		
19	0442	APT9						10000		
20	0591	EFF						9500		
DUP	↓	↓						9500		RPD < 5%
STD	KCl - 10 mhos/cm								—	8-12—RPD < 20% of TV

% RPD = $\frac{|S1-S2|}{(S1+S2)/2} * 100$

S1 = reading of 1st sample
S2 = reading of 2nd sample

Sequence: 081007-CLO4-IC11
Operator: clv
Printed: 8/13/2007 6:20:55 PM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 71
Created: 8/9/2007 9:45:38 AM by clv
Last Update: 8/13/2007 2:59:08 PM by clv

No.	Name	Sample ID	Dil. Factor	Type	Comment	Status
1	WASH		1.0000	Unknown	0	Finished
2	WASH		1.0000	Unknown	0	Finished
3	WASH		1.0000	Unknown	0	Finished
4	autocal1		1.0000	Standard	0	Finished
5	autocal2	R201449 EXP 07/28/09	1.0000	Standard	2	Finished
6	autocal3		1.0000	Standard	4	Finished
7	autocal4		1.0000	Standard	10	Finished
8	autocal5		1.0000	Standard	25	Finished
9	autocal6		1.0000	Standard	50	Finished
10	autocal7		1.0000	Standard	100	Finished
11	QCS	R201449 EXP 07/28/09	1.0000	Unknown	20	Finished
12	IPC	EC=3155	1.0000	Unknown	25	Finished
13	-MBLK		1.0000	Unknown		Finished
14	-MRLCHK-2	2	1.0000	Unknown	2	Finished
15	-MRLCHK-4	4	1.0000	Unknown	4	Finished
16	-LCS1	25	1.0000	Unknown	25	Finished
17	-LCS2	25	1.0000	Unknown	25	Finished
18	2708070418_1/5 DNR	KM ART-1	5.0000	Unknown		Finished
19	2708070422_1/2500	KM ART-2	2500.0000	Unknown		Finished
20	2708070423_1/10000	KM ART-3	10000.0000	Unknown		Finished
21	2708070424_1/10000	KM ART-4	10000.0000	Unknown		Finished
22	2708070425_1/5000	KM ART-6	5000.0000	Unknown		Finished
23	2708070426_1/5000	KM ART-7	5000.0000	Unknown		Finished
24	2708070427_1/10000 DNR	KM ART-8	10000.0000	Unknown		Finished
25	2708070428_1/500	KM PC99R2/R3	500.0000	Unknown		Finished
26	2708070429_1/500	KM PC-115R	500.0000	Unknown		Finished
27	2708070430_1/500	KM PC-116R	500.0000	Unknown		Finished
28	2708070430-MS	25	500.0000	Unknown	25	Finished
29	2708070430-MSD	25	500.0000	Unknown	25	Finished
30	CCV	25	1.0000	Unknown	25	Finished
31	2708070431_1/100 DNR	KM SEEP SURFACE	100.0000	Unknown		Finished
32	2708070432_1/5 DNR	KM SF-1	5.0000	Unknown		Finished
33	2708070433_1/100	KM PC-117	100.0000	Unknown		Finished
34	2708070434_1/200	KM PC-118	200.0000	Unknown		Finished
35	2708070437_1/100 DNR	KM PC-119	100.0000	Unknown		Finished
36	2708070439_1/100	KM PC-120	100.0000	Unknown		Finished
37	2708070440_1/100	KM PC-121	100.0000	Unknown		Finished
38	2708070441_1/100	KM PC-133	100.0000	Unknown		Finished
39	2708070442_1/10000	KM ART-9	10000.0000	Unknown		Finished
40	2708070591_1/5	KM EFF	5.0000	Unknown		Finished
41	HCV	100	1.0000	Unknown	100	Finished
42	IPC	EC=3155	1.0000	Unknown	25	Finished

Sequence: 081007-CLO4-IC11
Operator: clv
Printed: 8/13/2007 6:20:55 PM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 71

Created: 8/9/2007 9:45:38 AM by clv
Last Update: 8/13/2007 2:59:08 PM by clv

No.	Name	Program	Method	Inj. Date/Time	*Analyst
1	WASH	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 11:05:18 AM	clv
2	WASH	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 11:27:41 AM	clv
3	WASH	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 11:50:05 AM	clv
4	autocal1	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 12:12:30 PM	clv
5	autocal2	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 12:34:53 PM	clv
6	autocal3	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 12:57:18 PM	clv
7	autocal4	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 1:19:41 PM	clv
8	autocal5	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 1:42:05 PM	clv
9	autocal6	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 2:04:29 PM	clv
10	autocal7	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 2:26:51 PM	clv
11	QCS	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 2:49:15 PM	clv
12	IPC	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 3:11:39 PM	clv
13	-MBLK	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 3:34:03 PM	clv
14	-MRLCHK-2	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 5:07:17 PM	clv
15	-MRLCHK-4	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 5:29:40 PM	clv
16	-LCS1	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 5:52:04 PM	clv
17	-LCS2	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 6:14:27 PM	clv
18	2708070418_1/5 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 6:36:50 PM	clv
19	2708070422_1/2500	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 6:59:13 PM	clv
20	2708070423_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 7:21:36 PM	clv
21	2708070424_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 7:43:59 PM	clv
22	2708070425_1/5000	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 8:06:22 PM	clv
23	2708070426_1/5000	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 8:28:45 PM	clv
24	2708070427_1/10000 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 8:51:09 PM	clv
25	2708070428_1/500	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 9:13:41 PM	clv
26	2708070429_1/500	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 9:36:08 PM	clv
27	2708070430_1/500	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 9:58:36 PM	clv
28	2708070430-MS	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 10:21:03 PM	clv
29	2708070430-MSD	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 10:43:30 PM	clv
30	CCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 11:05:57 PM	clv
31	2708070431_1/100 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 11:28:24 PM	clv
32	2708070432_1/5 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/10/2007 11:50:51 PM	clv
33	2708070433_1/100	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 12:13:18 AM	clv
34	2708070434_1/200	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 12:35:46 AM	clv
35	2708070437_1/100 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 12:58:13 AM	clv
36	2708070439_1/100	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 1:20:40 AM	clv
37	2708070440_1/100	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 1:42:24 AM	clv
38	2708070441_1/100	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 2:04:44 AM	clv
39	2708070442_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 2:27:06 AM	clv
40	2708070591_1/5	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 2:49:27 AM	clv
41	HCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 3:11:49 AM	clv
42	IPC	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 3:34:11 AM	clv

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 71
Created: 8/9/2007 9:45:38 AM by clv
Last Update: 8/13/2007 2:59:08 PM by clv

No.	Name	Sample ID	Dil. Factor	Type	Comment	Status
43	-MBLK		1.0000	Unknown		Finished
44	-MRLCHK-2	2	1.0000	Unknown	2	Finished
45	-MRLCHK-4	4	1.0000	Unknown	4	Finished
46	-LCS1	25	1.0000	Unknown	25	Finished
47	-LCS2	25	1.0000	Unknown	25	Finished
48	2708040008_1/50000 DNR	KM M-89	50000.0000	Unknown	RR	Finished
49	2708070254 DNR	CALWATER 678	1.0000	Unknown	RR	Finished
50	2708070254-MS DNR	25	1.0000	Unknown	25	Finished
51	2708070254-MSD DNR	25	1.0000	Unknown	25	Finished
52	2708060473_1/2 DNR	IEUA CUCAMONGA CRK	2.0000	Unknown	RR	Finished
53	2708060474_1/2 DNR	IEUA CUCAMONGA CRK	2.0000	Unknown	RR	Finished
54	2708060475_1/2 DNR	IEUA SAN ANTONIO CRK	2.0000	Unknown	RR	Finished
55	2708070270_1/10000 DNR	KM INF-COMP	10000.0000	Unknown	RR	Finished
56	2708070595_1/10000 DNR	KM INF	10000.0000	Unknown		Finished
57	2708030110 DNR	TUCSON 112	1.0000	Unknown	RR	Finished
58	2708070760 DNR	IEUA RP3	1.0000	Unknown		Finished
59	2708080198 DNR	VALEYWA W1+4	1.0000	Unknown		Finished
60	CCV	25	1.0000	Unknown	25	Finished
61	2708080595 DNR	FOOTHILL MWD A	1.0000	Unknown		Finished
62	2708080624 DNR	VALENCIA W6	1.0000	Unknown		Finished
63	2708080625 DNR	VALENCIA W2 SOURCE	1.0000	Unknown		Finished
64	2708080626 DNR	VALENCIA W2 LEAD	1.0000	Unknown		Finished
65	2708080627 DNR	VALENCIA W2 LAG	1.0000	Unknown		Finished
66	2708090352 DNR	CALWATER 344	1.0000	Unknown		Finished
67	2708090353 DNR	CALWATER 345	1.0000	Unknown		Finished
68	2708090354 DNR	CALWATER 346	1.0000	Unknown		Finished
69	2708090355 DNR	CALWATER 347	1.0000	Unknown		Finished
70	HCV	100	1.0000	Unknown		Finished
71	STOP		1.0000	Unknown		Interrupted

Sequence: 081007-CLO4-IC11
Operator: clv
Printed: 8/13/2007 6:20:55 PM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 71

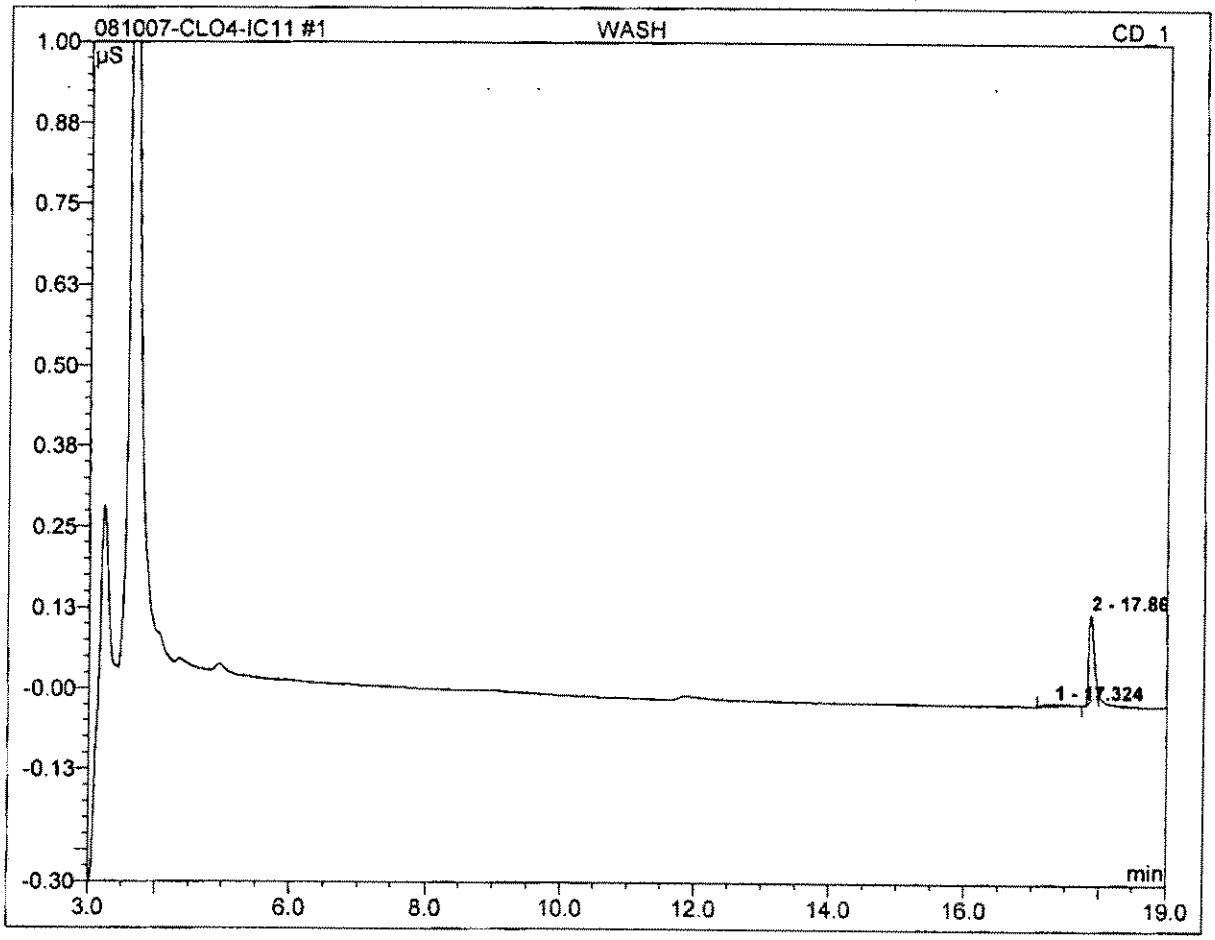
Created: 8/9/2007 9:45:38 AM by clv
Last Update: 8/13/2007 2:59:08 PM by clv

No.	Name	Program	Method	Inj. Date/Time	*Analyst
43	-MBLK	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 3:56:46 AM	clv
44	-MRLCHK-2	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 4:19:09 AM	clv
45	-MRLCHK-4	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 4:41:31 AM	clv
46	-LCS1	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 5:03:54 AM	clv
47	-LCS2	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 5:26:16 AM	clv
48	2708040008_1/50000 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 5:48:39 AM	clv
49	2708070254 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 6:11:09 AM	clv
50	2708070254-MS DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 6:33:33 AM	clv
51	2708070254-MSD DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 6:55:56 AM	clv
52	2708060473_1/2 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 7:18:19 AM	clv
53	2708060474_1/2 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 7:40:42 AM	clv
54	2708060475_1/2 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 8:03:05 AM	clv
55	2708070270_1/10000 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 8:25:33 AM	clv
56	2708070595_1/10000 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 8:47:56 AM	clv
57	2708030110 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 9:10:20 AM	clv
58	2708070760 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 9:32:43 AM	clv
59	2708080198 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 9:55:07 AM	clv
60	CCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 10:17:30 AM	clv
61	2708080595 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 10:39:56 AM	clv
62	2708080624 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 11:02:20 AM	clv
63	2708080625 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 11:24:43 AM	clv
64	2708080626 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 11:47:07 AM	clv
65	2708080627 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 12:09:31 PM	clv
66	2708090352 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 12:31:54 PM	clv
67	2708090353 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 12:54:19 PM	clv
68	2708090354 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 1:16:42 PM	clv
69	2708090355 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 1:39:06 PM	clv
70	HCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/11/2007 2:01:30 PM	clv
71	STOP	IC11 Stop	IC#4-CLO4-LOW	8/11/2007 2:46:18 PM	clv

1 WASH

0

Sample Name:	**WASH**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 11:05**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

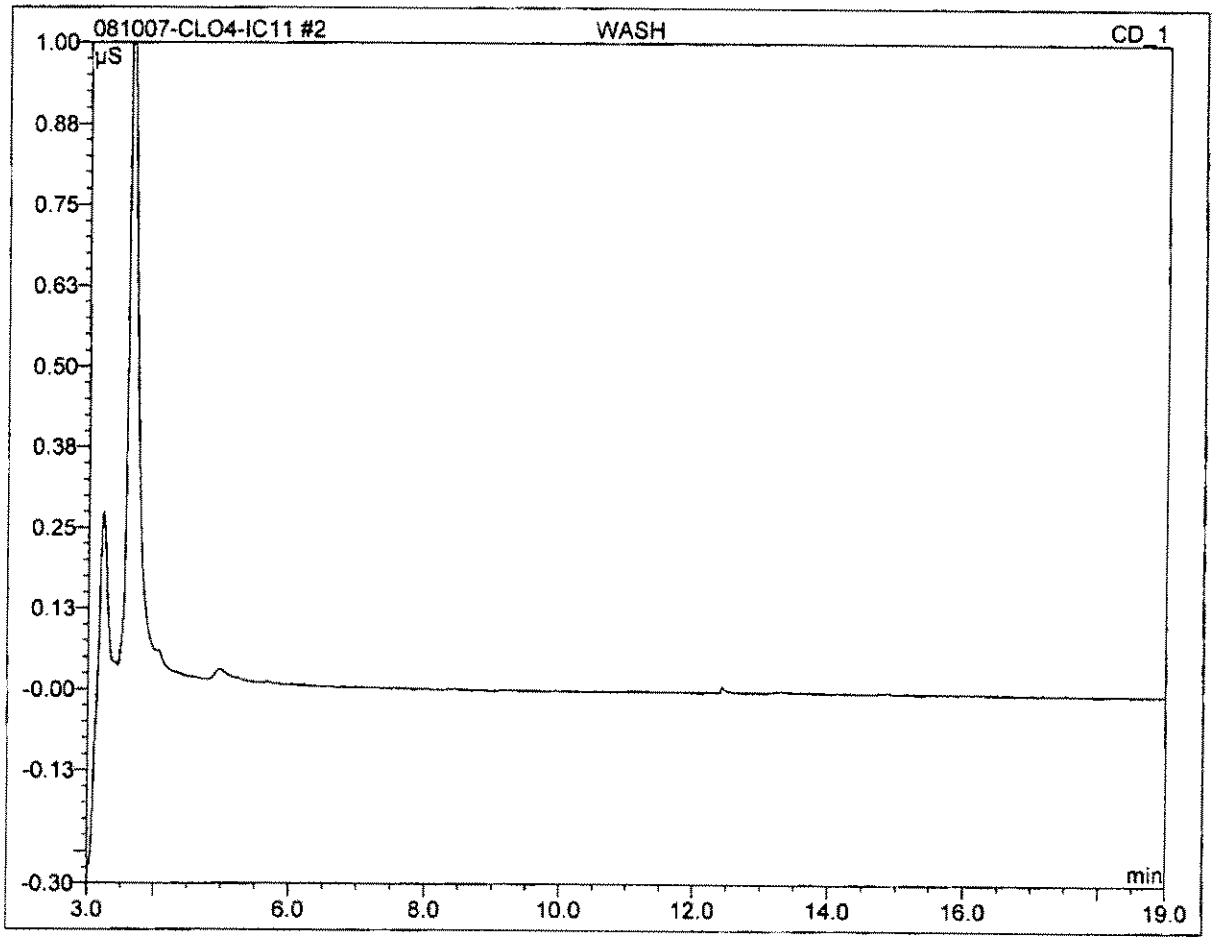


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

2 WASH

0

Sample Name:	**WASH**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 11:27**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

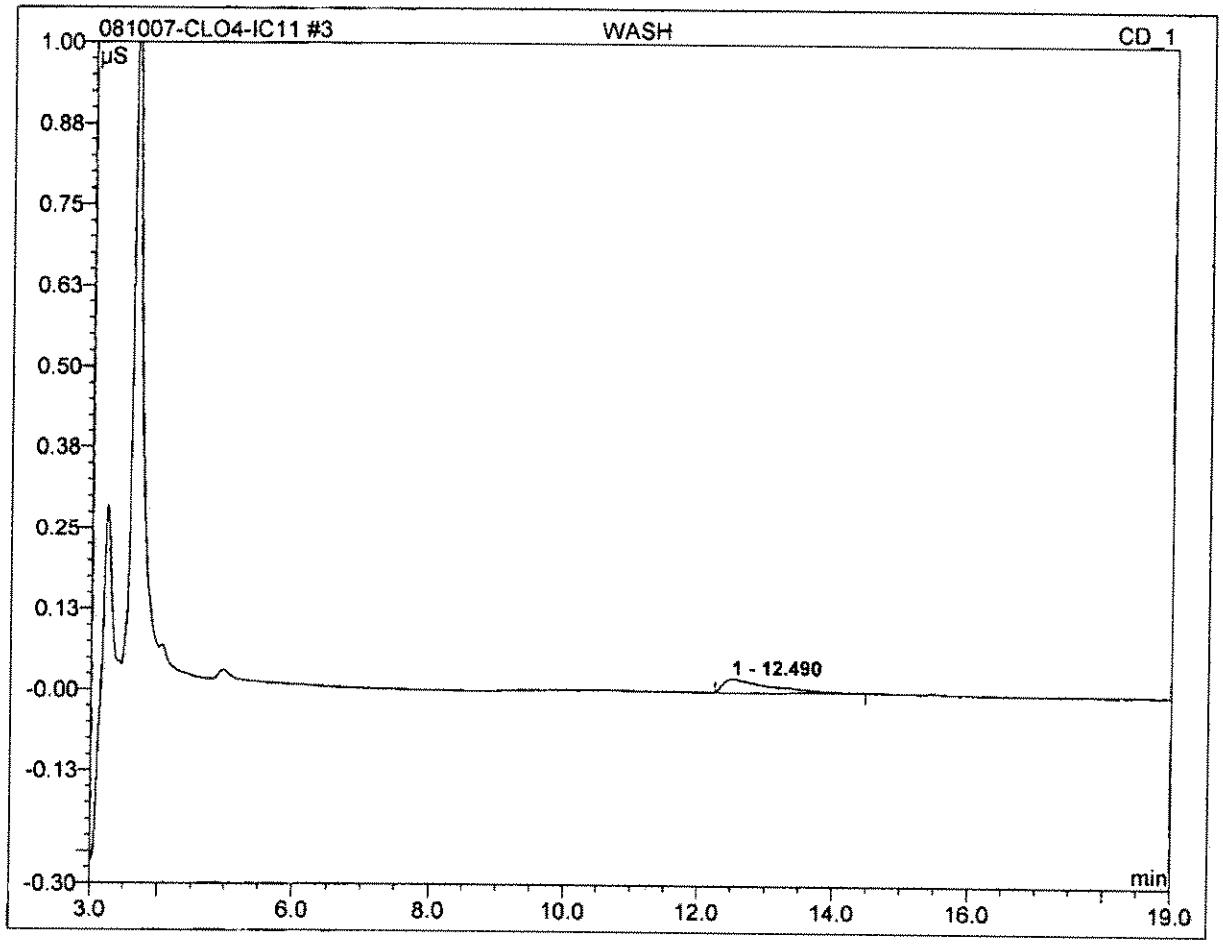


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

3 WASH

0

Sample Name:	**WASH**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 11:50**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

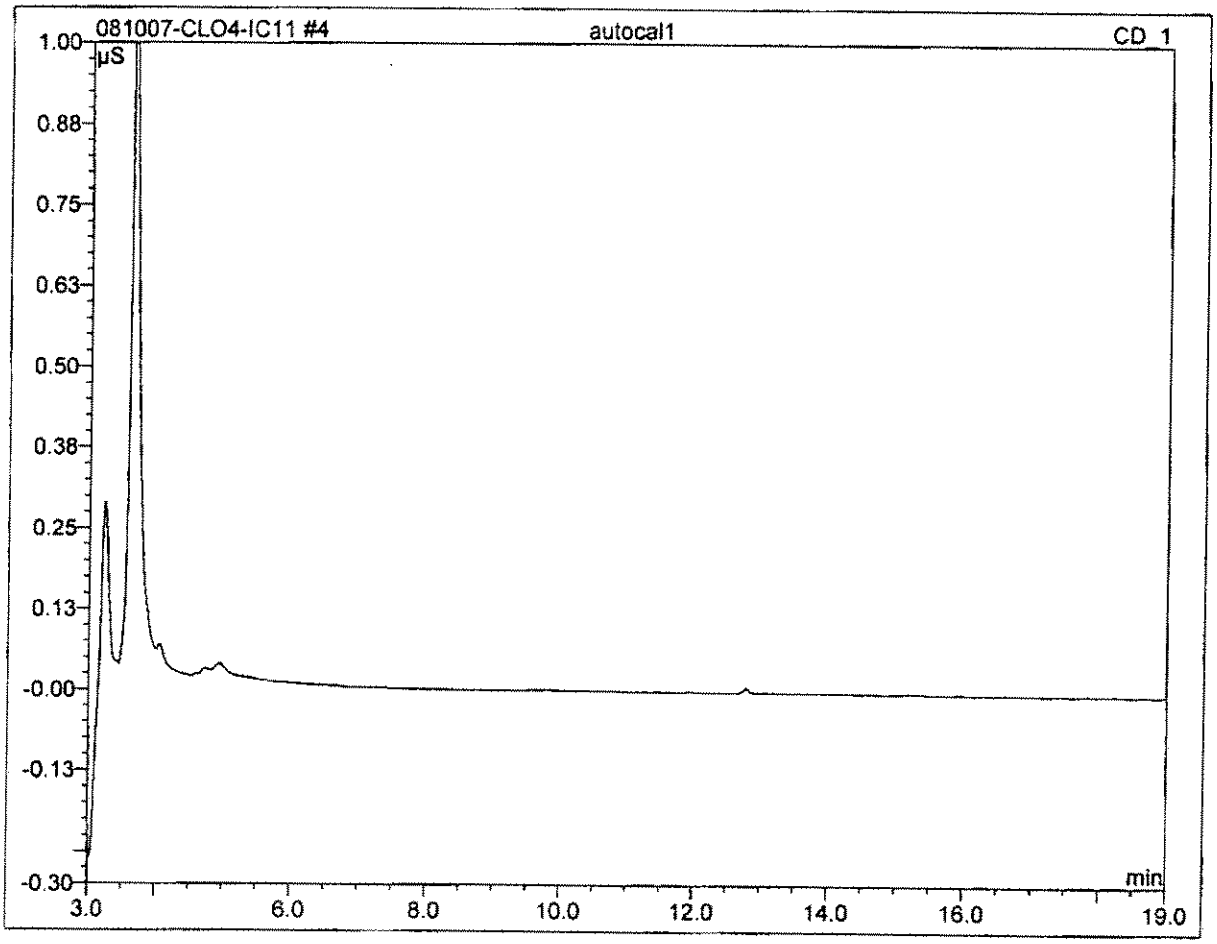


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

4 autocal1

0

Sample Name:	**autocal1**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 12:12**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

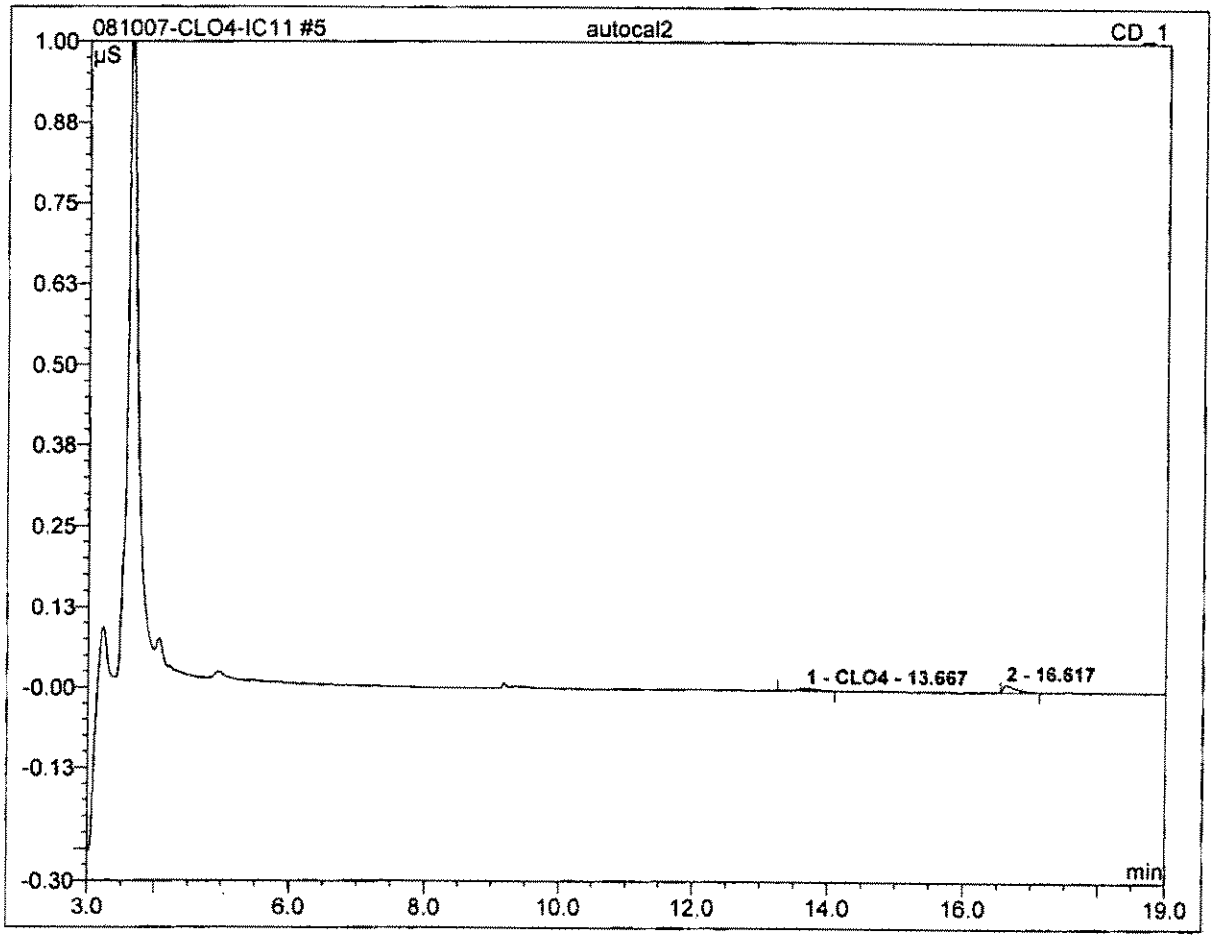


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

5 autocal2

2

Sample Name:	**autocal2**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 12:34**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

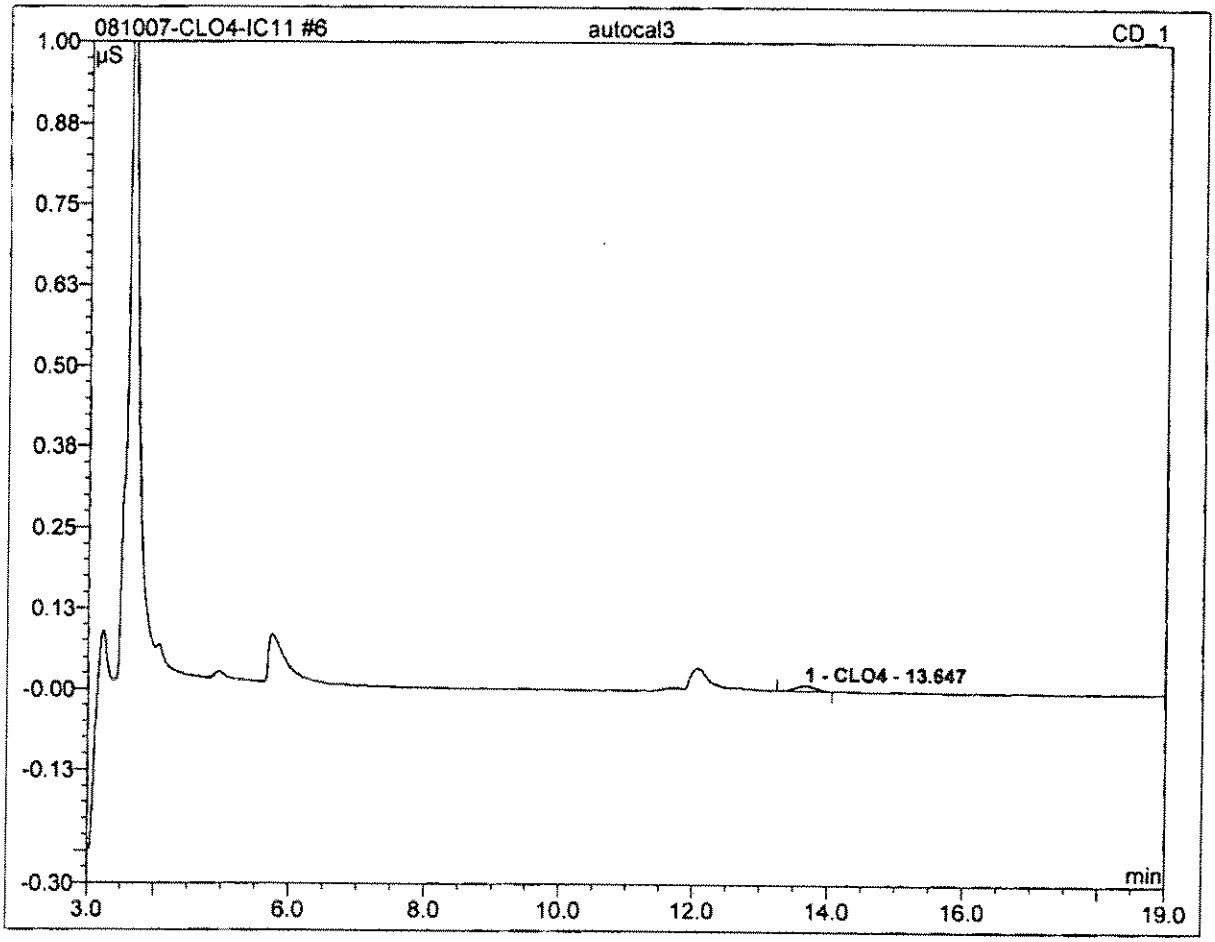


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.67	CLO4	0.004	0.002	39.05	2.585	BMB
Total:			0.004	0.002	39.05	2.585	

6 autocal3

4

Sample Name:	**autocal3**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 12:57**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

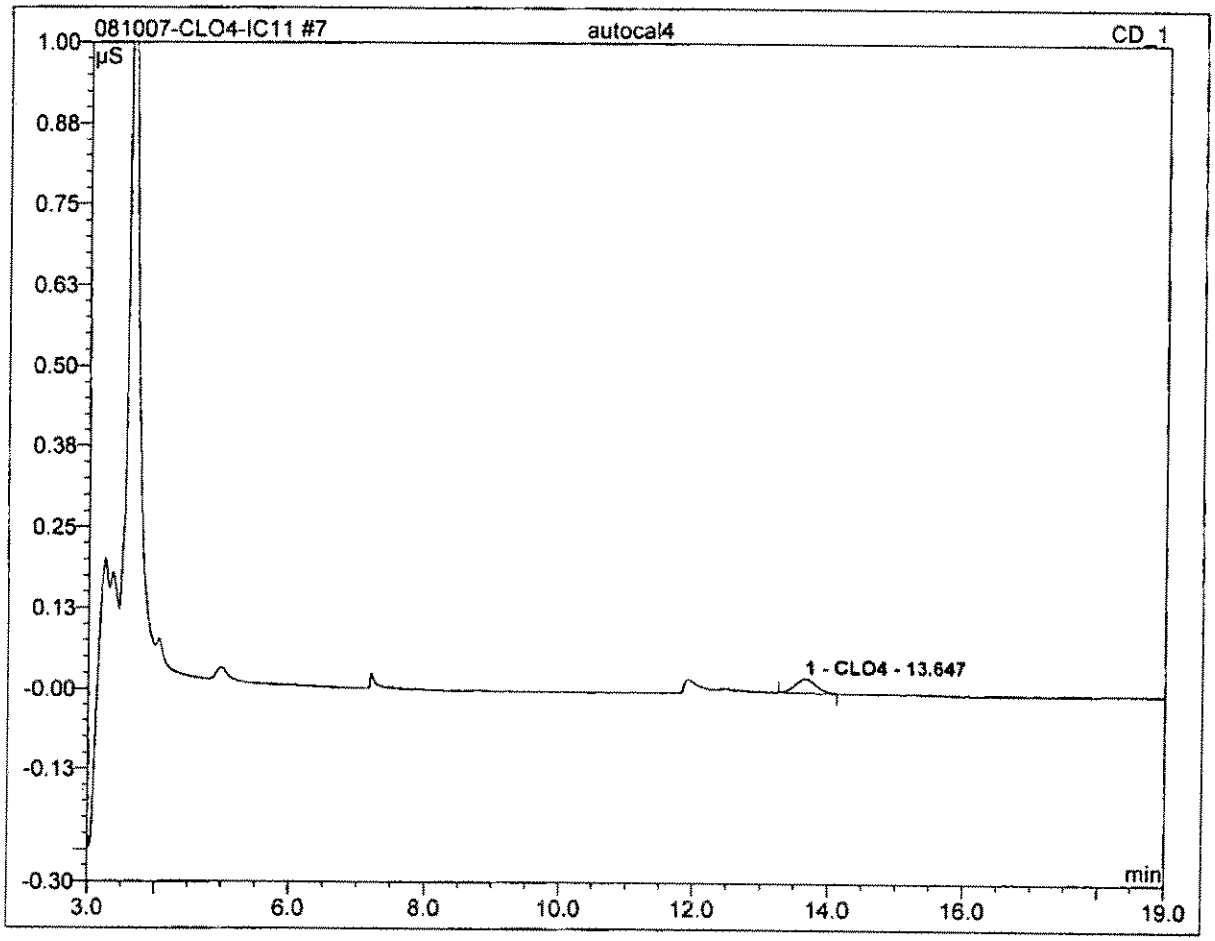


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.65	CLO4	0.008	0.003	100.00	3.966	BMB
Total:			0.008	0.003	100.00	3.966	

7 autocal4

10

Sample Name:	**autocal4**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 13:19**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

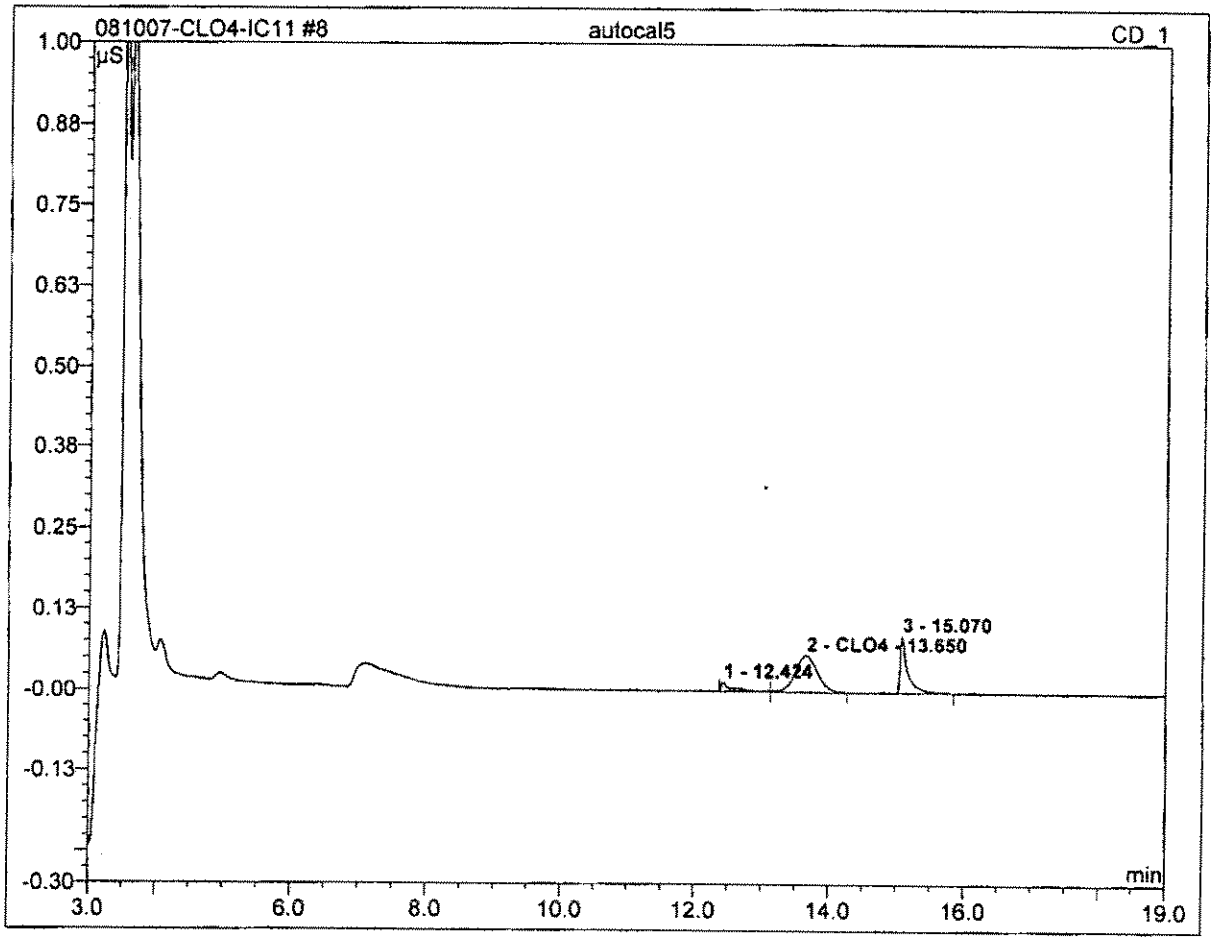


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.65	CLO4	0.021	0.008	100.00	9.489	BMB
Total:			0.021	0.008	100.00	9.489	

8 autocal5

25

Sample Name:	**autocal5**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 13:42**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

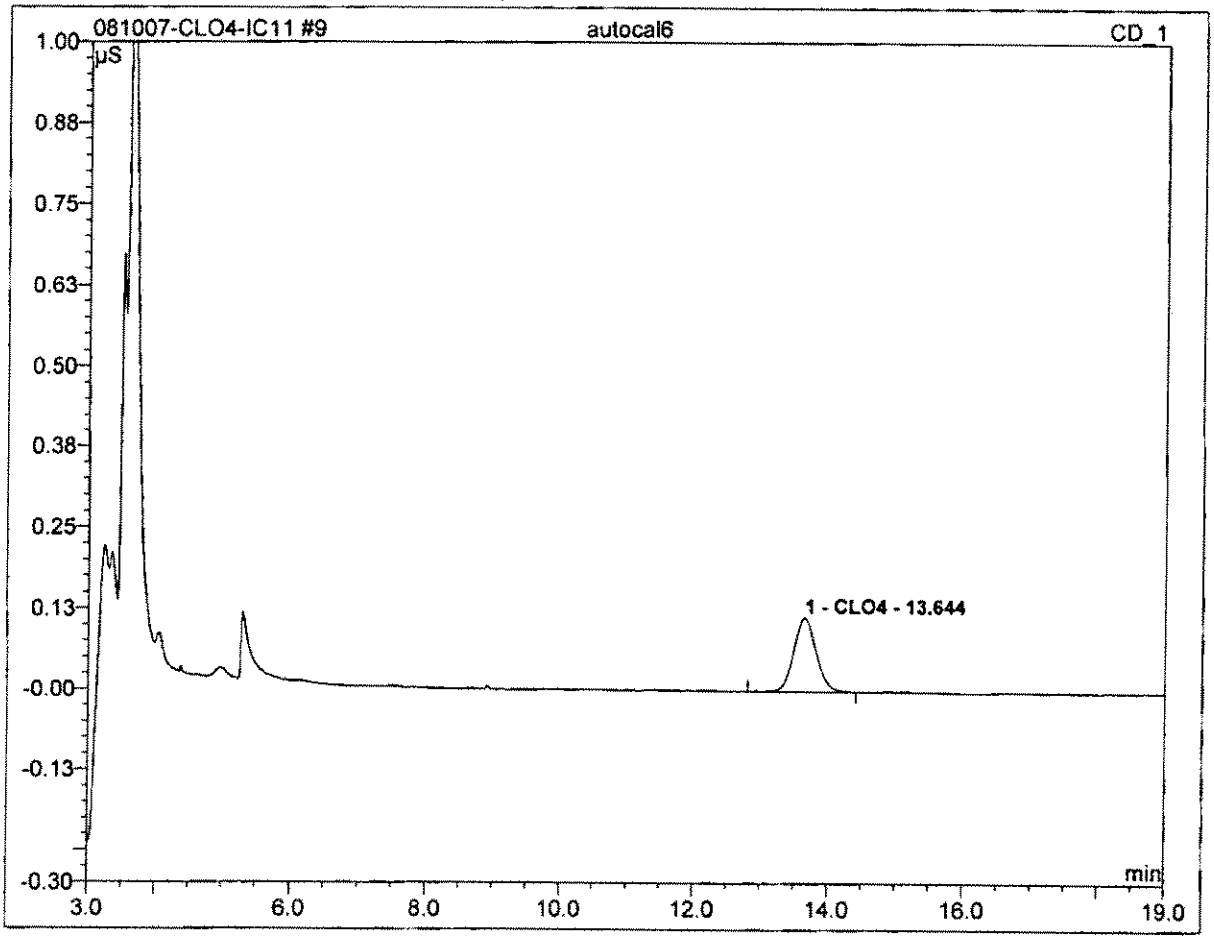


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
2	13.65	CLO4	0.056	0.021	61.11	24.577	MB
Total:			0.056	0.021	61.11	24.577	

9 autocal6

50

Sample Name:	**autocal6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 14:04**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

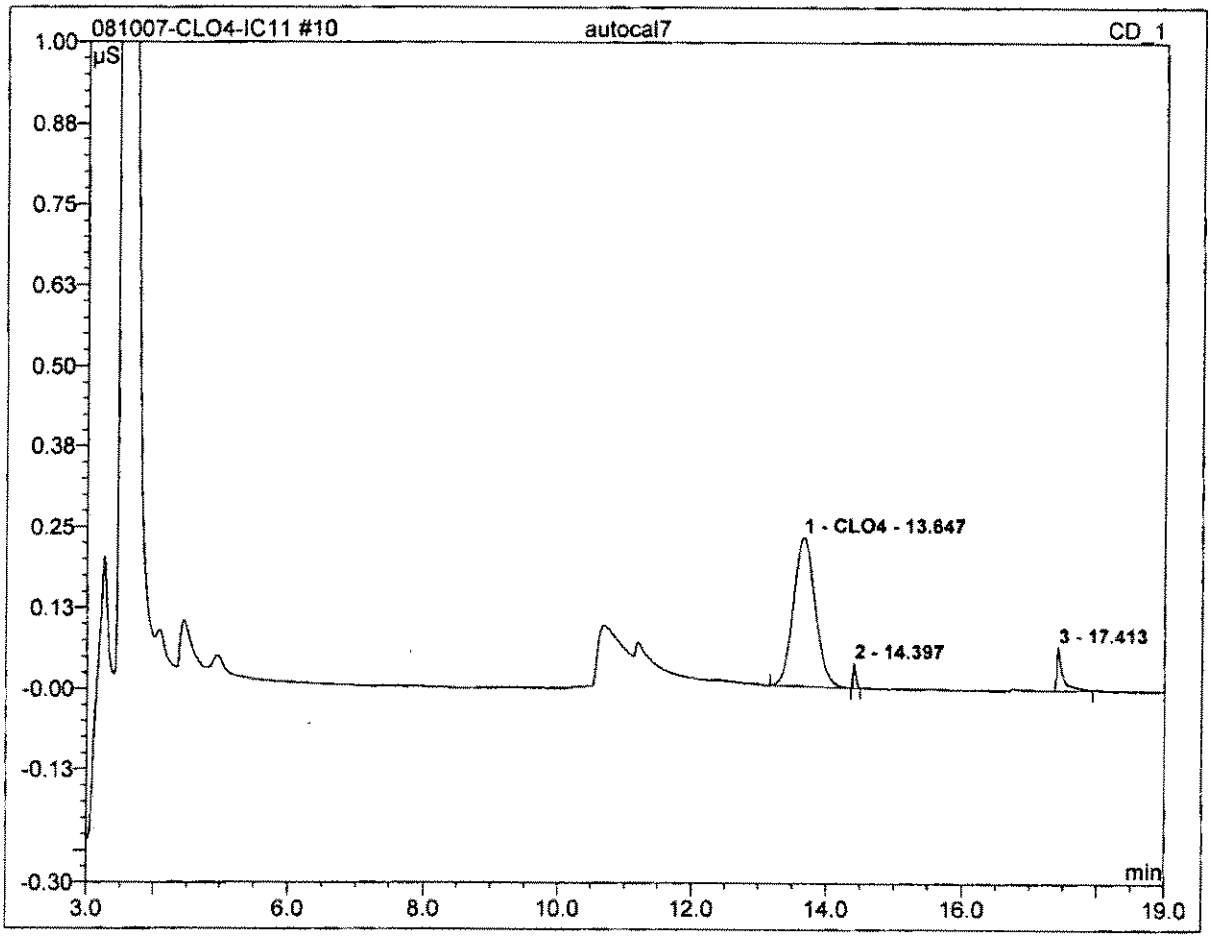


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.64	CLO4	0.114	0.044	100.00	50.473	BMB
Total:			0.114	0.044	100.00	50.473	

10 autocal7

100

Sample Name:	**autocal7**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 14:26**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

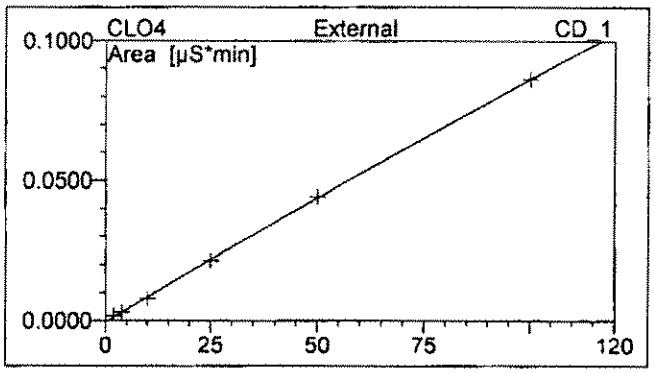


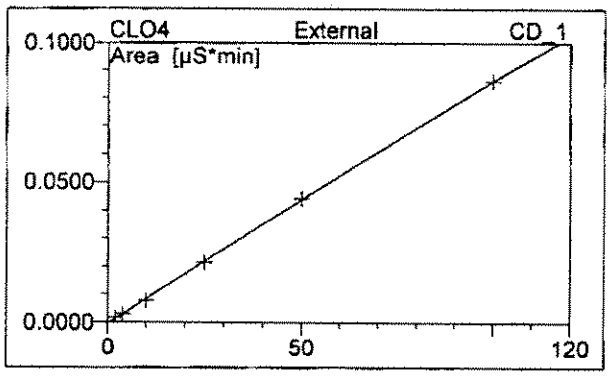
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.65	CLO4	0.230	0.086	90.78	99.910	BMB
Total:			0.230	0.086	90.78	99.910	

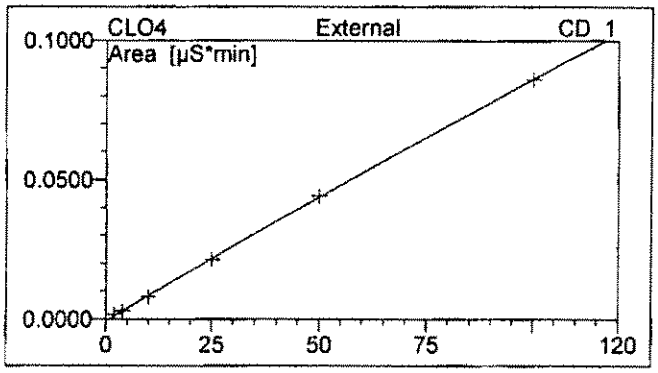
10 autocal7

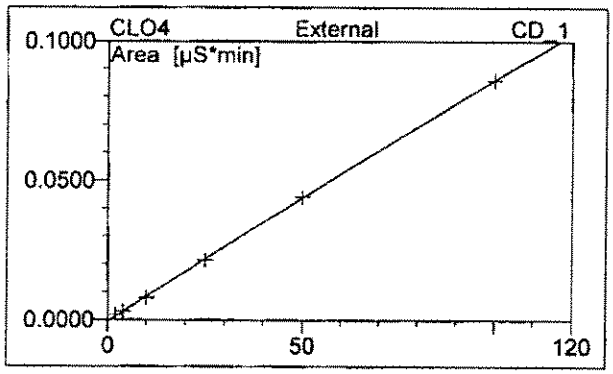
100

Sample Name:	**autocal7**	*Injection Volume:*	**20.0**
Vial Number:	**109**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Perchlorate-IC11**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC#4-CLO4-LOW**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/10/2007 14:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**20.00**	*Sample Amount:*	**1.0000**







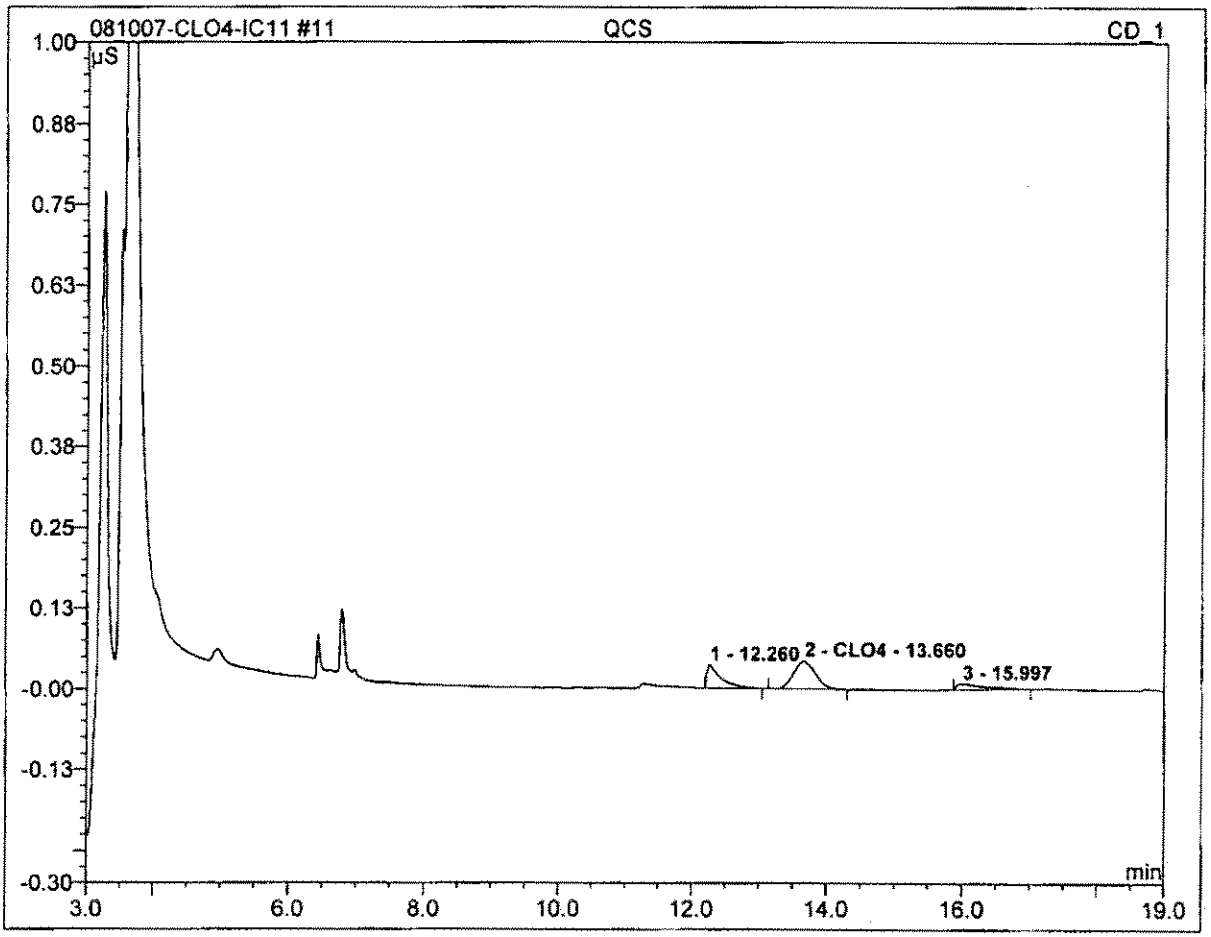


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	13.65	CLO4	QOff	6	99.9849	-0.0007	0.0009	0.0000
2	14.40	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	17.41	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Average:					99.9849	-0.0007	0.0009	0.0000

11 QCS

20

Sample Name:	**QCS**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 14:49**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

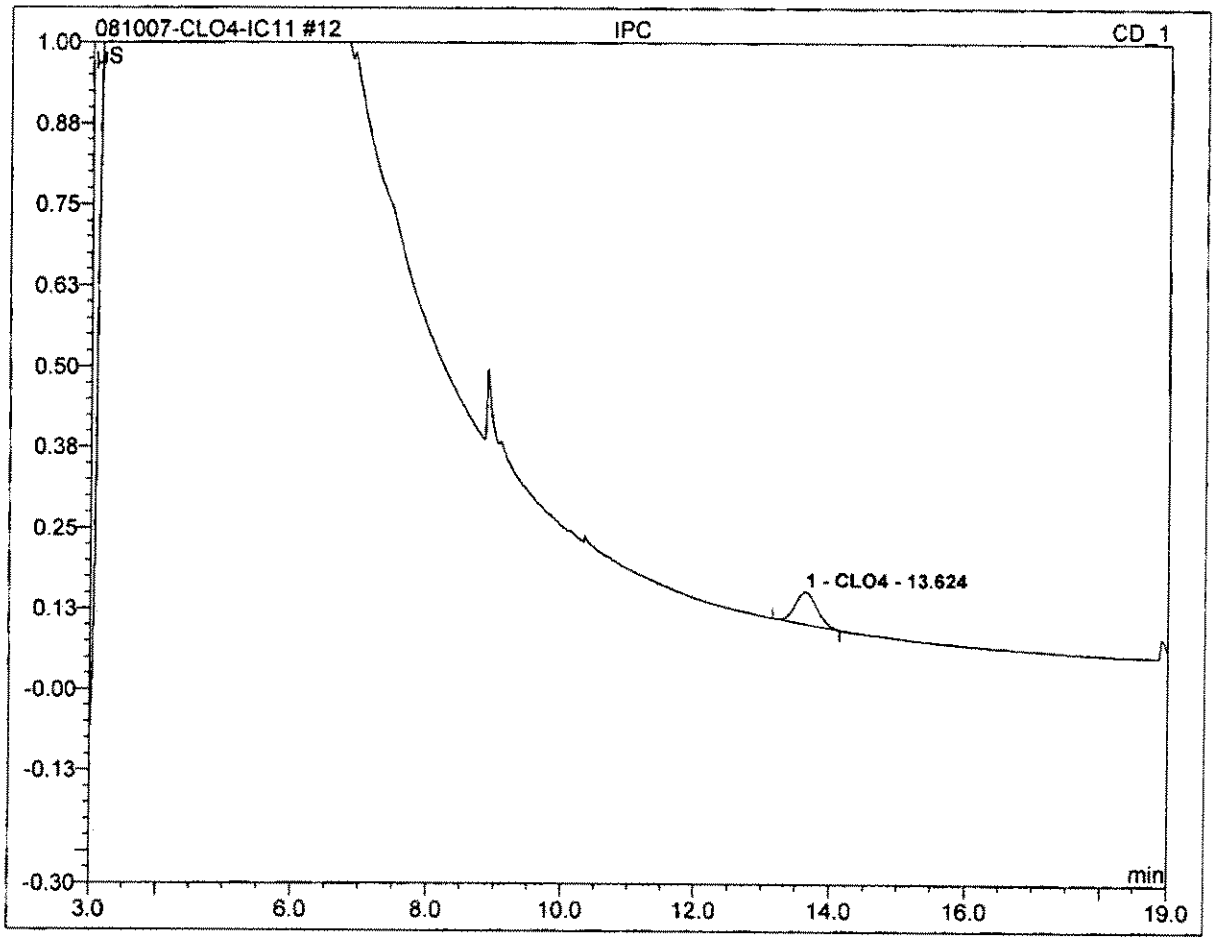


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
2	13.66	CLO4	0.042	0.016	56.00	18.681	BMB
Total:			0.042	0.016	56.00	18.681	

12 IPC

25

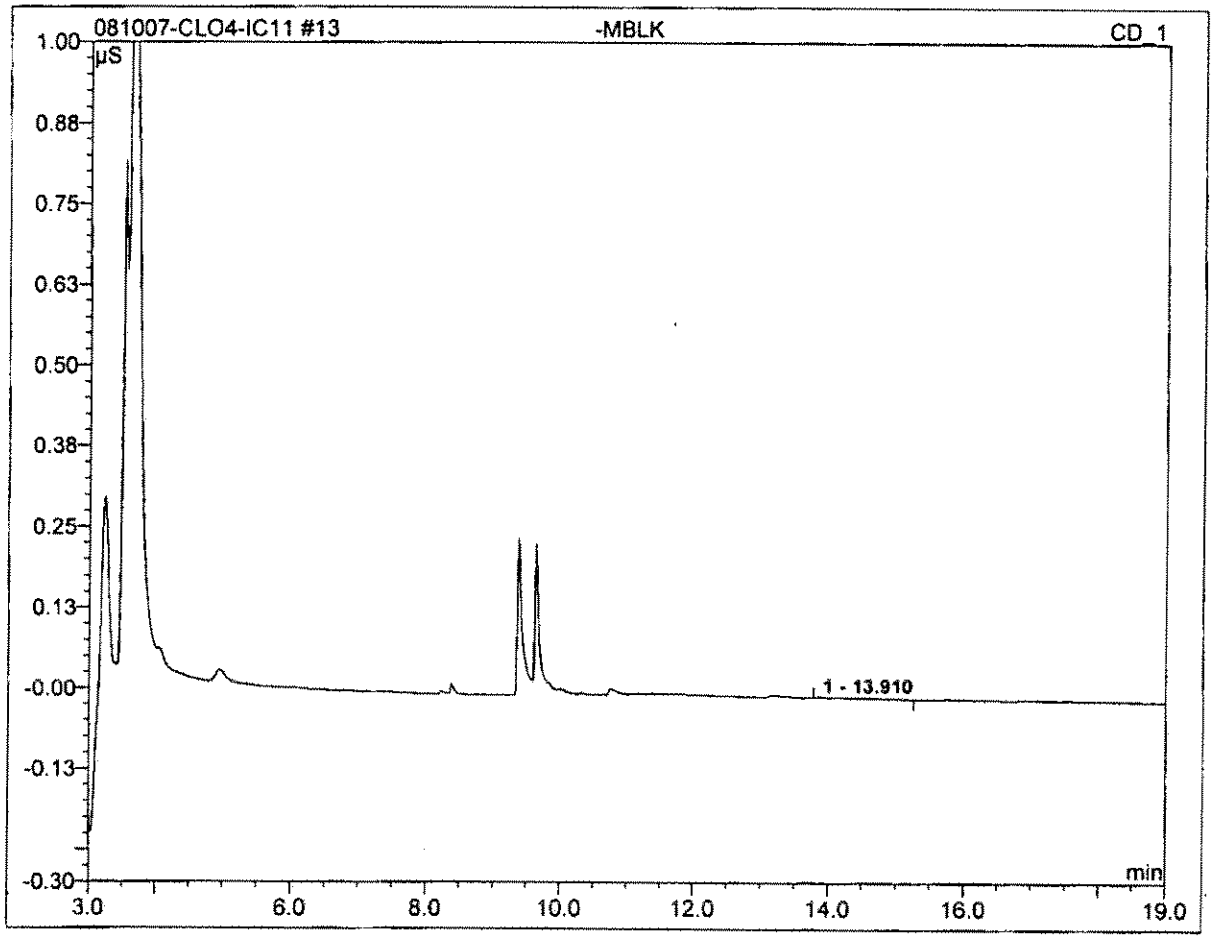
Sample Name:	**IPC**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 15:11**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.62	CLO4	0.050	0.019	100.00	21.463	BMB
Total:			0.050	0.019	100.00	21.463	

13 -MBLK

Sample Name:	**-MBLK**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 15:34**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

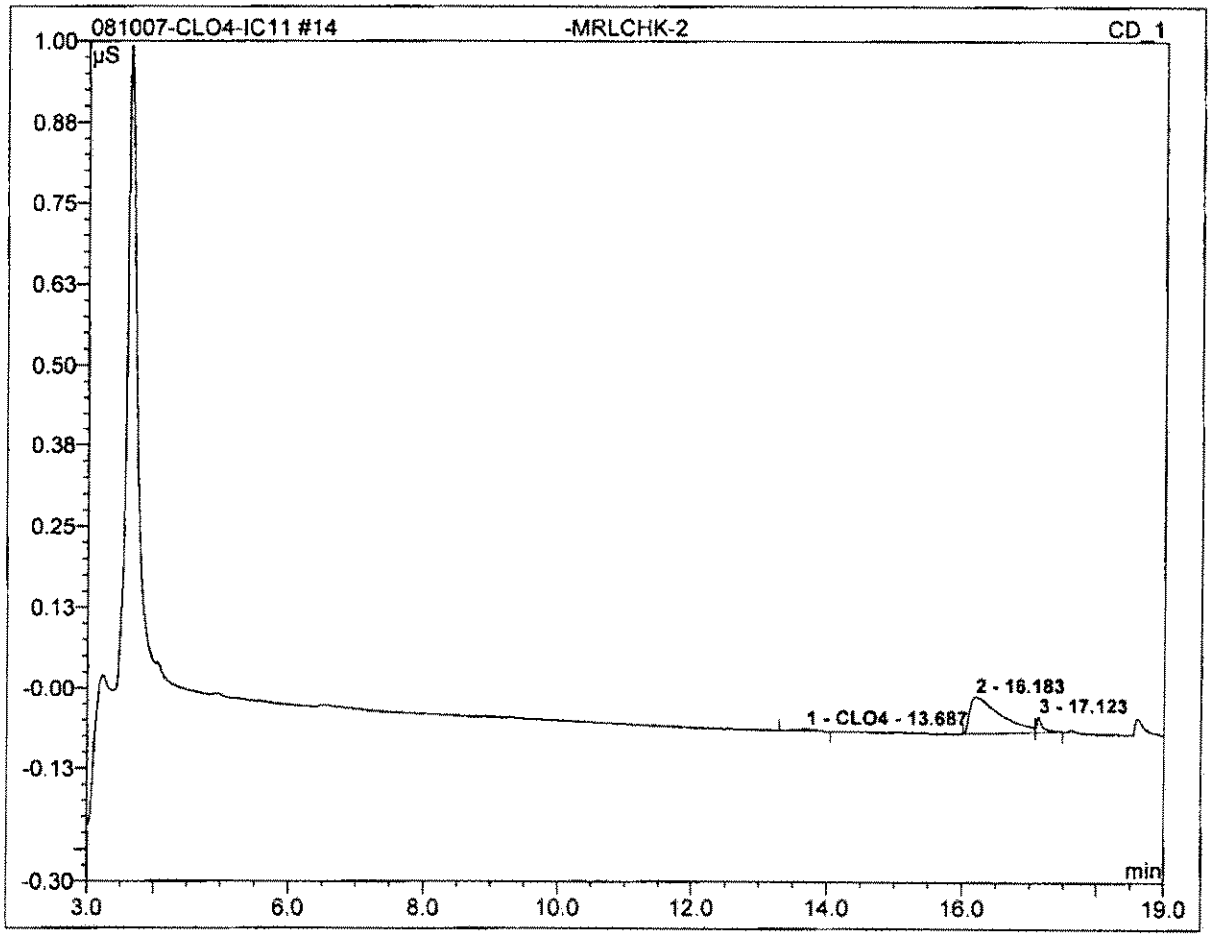


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

14 -MRLCHK-2

2

Sample Name:	**-MRLCHK-2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 17:07**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

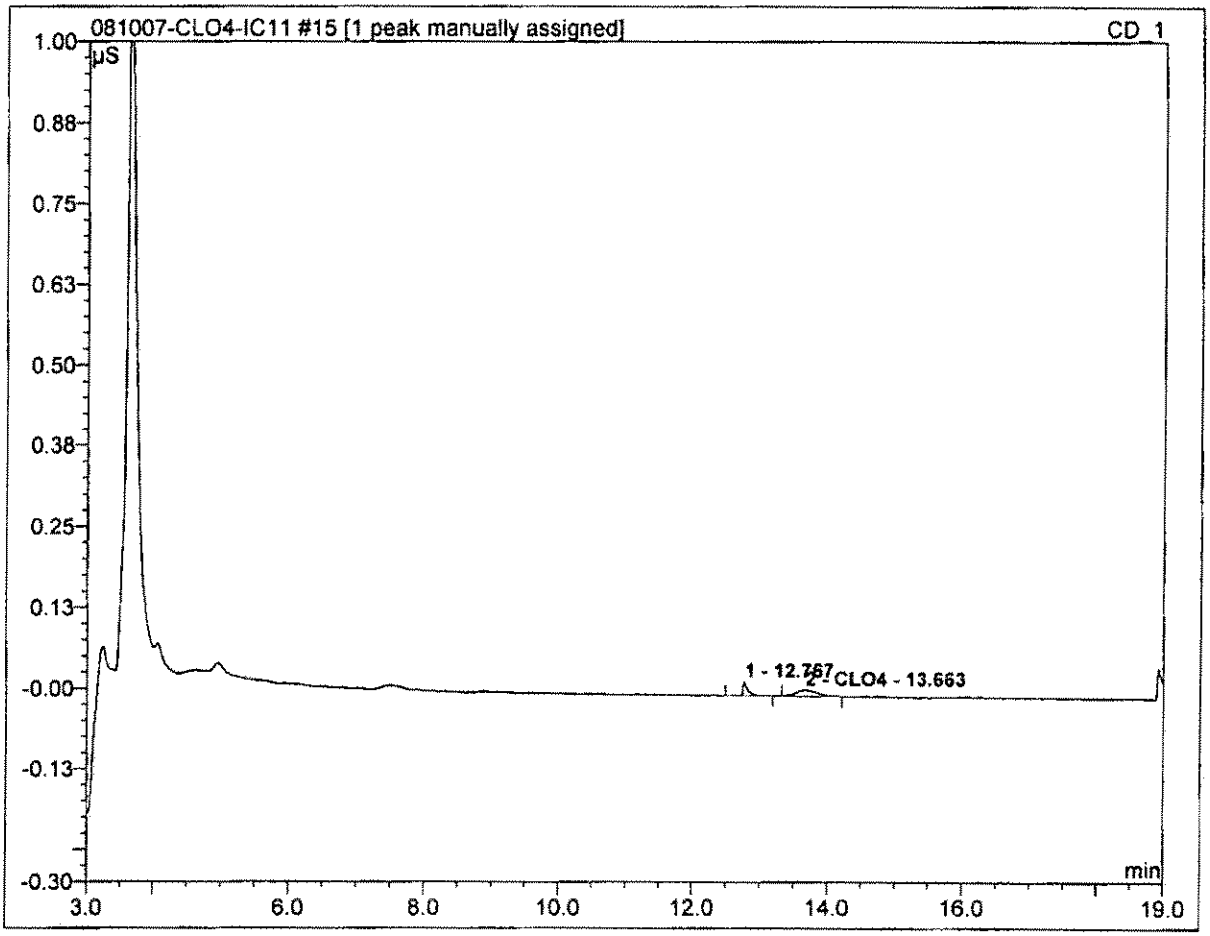


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.69	CLO4	0.003	0.001	3.31	2.003	BMB
Total:			0.003	0.001	3.31	2.003	

15 -MRLCHK-4

4

Sample Name:	**-MRLCHK-4**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 17:29**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

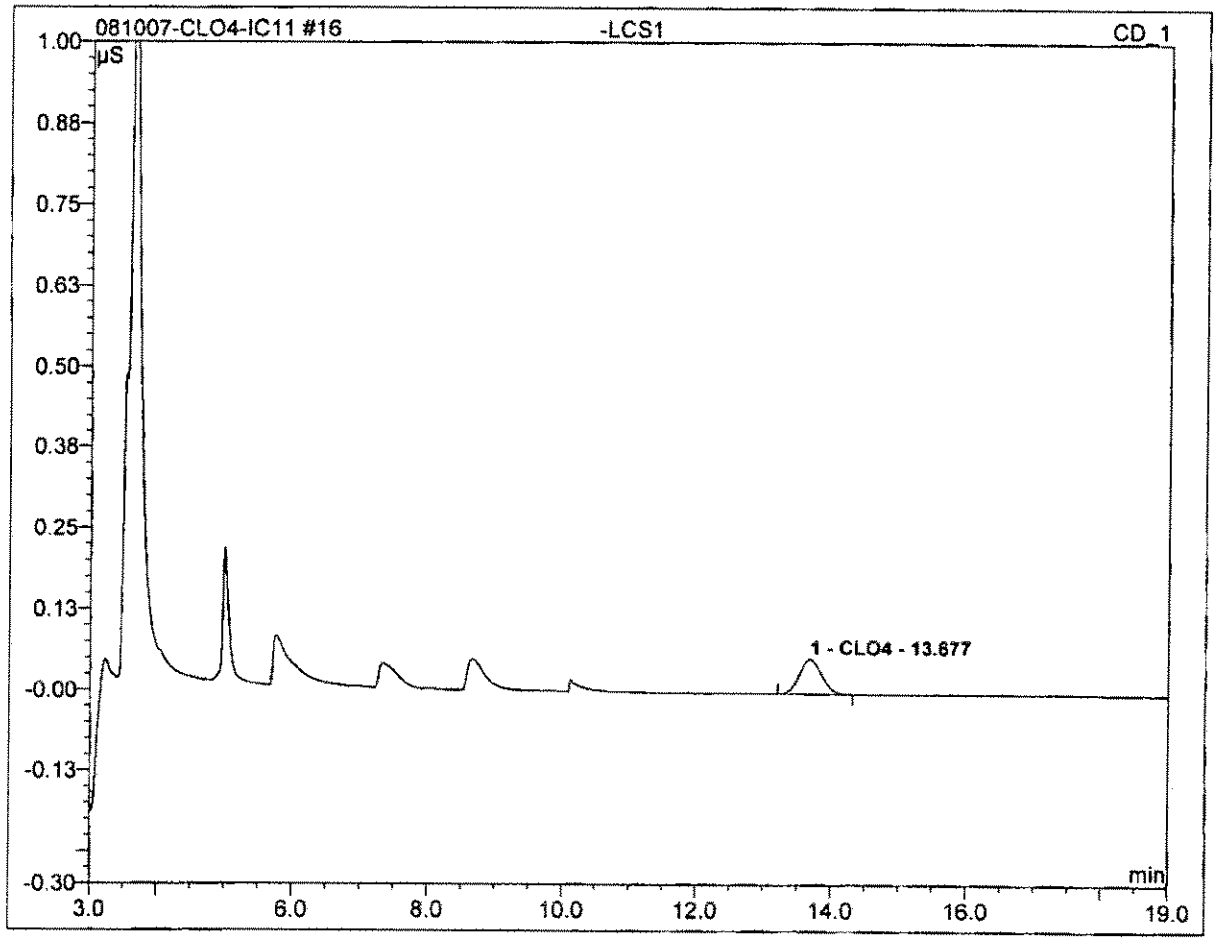


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
2	13.66	CLO4	0.009	0.003	63.69	4.348	BMB^
Total:			0.009	0.003	63.69	4.348	

16 -LCS1

25

Sample Name:	**-LCS1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 17:52**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

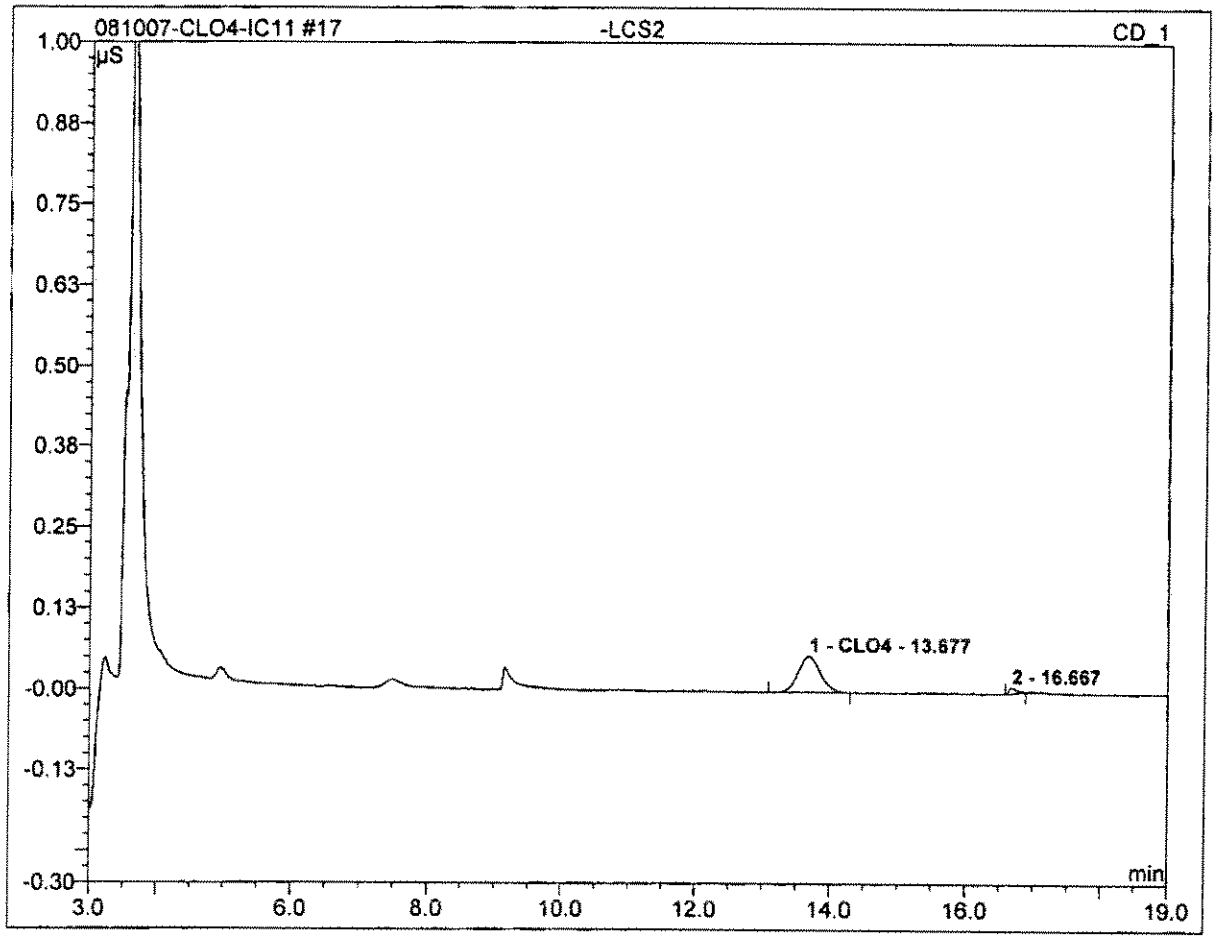


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.68	CLO4	0.054	0.020	100.00	23.584	BMB
Total:			0.054	0.020	100.00	23.584	

17 -LCS2

25

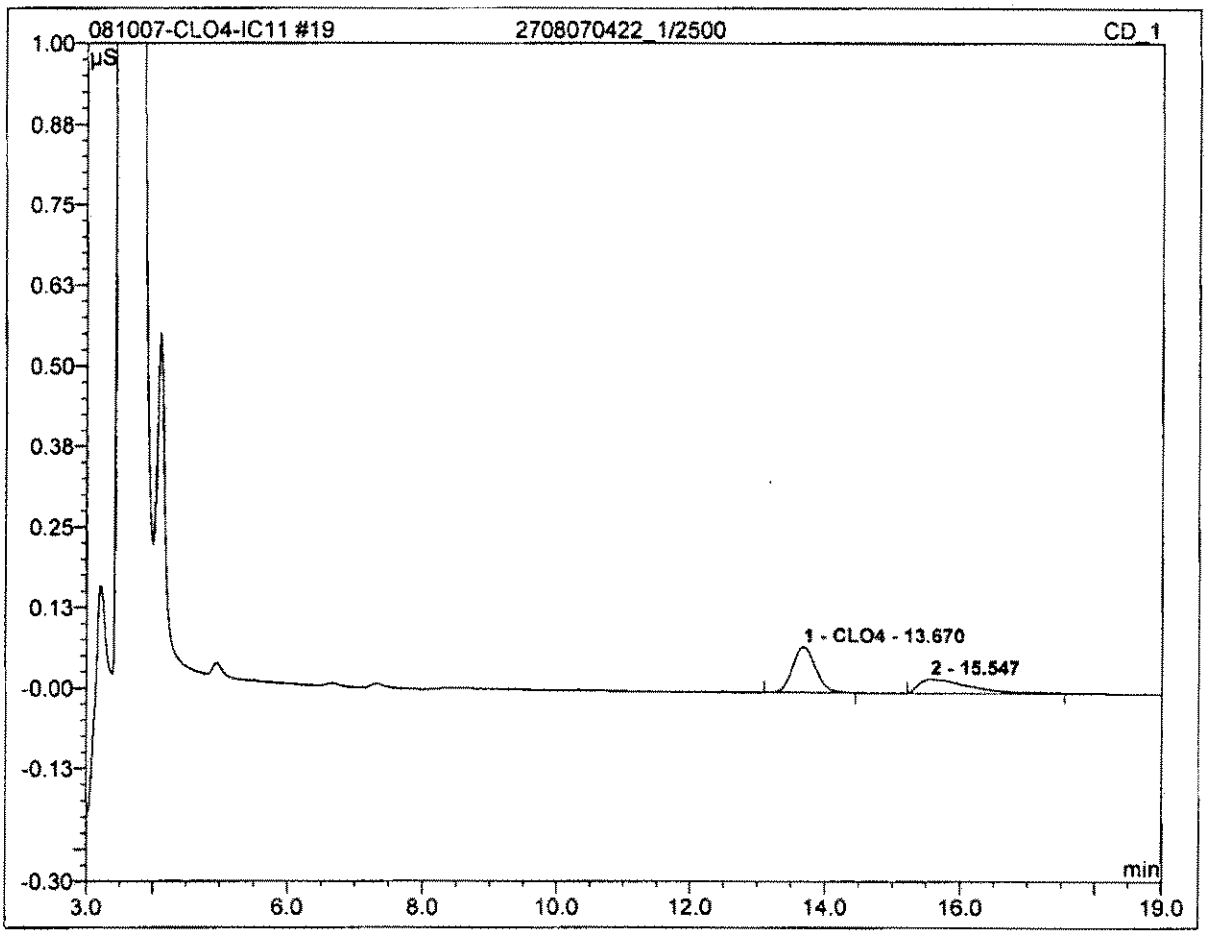
Sample Name:	**-LCS2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 18:14**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.68	CLO4	0.055	0.021	94.12	24.169	BMB
Total:			0.055	0.021	94.12	24.169	

19 2708070422_1/2500

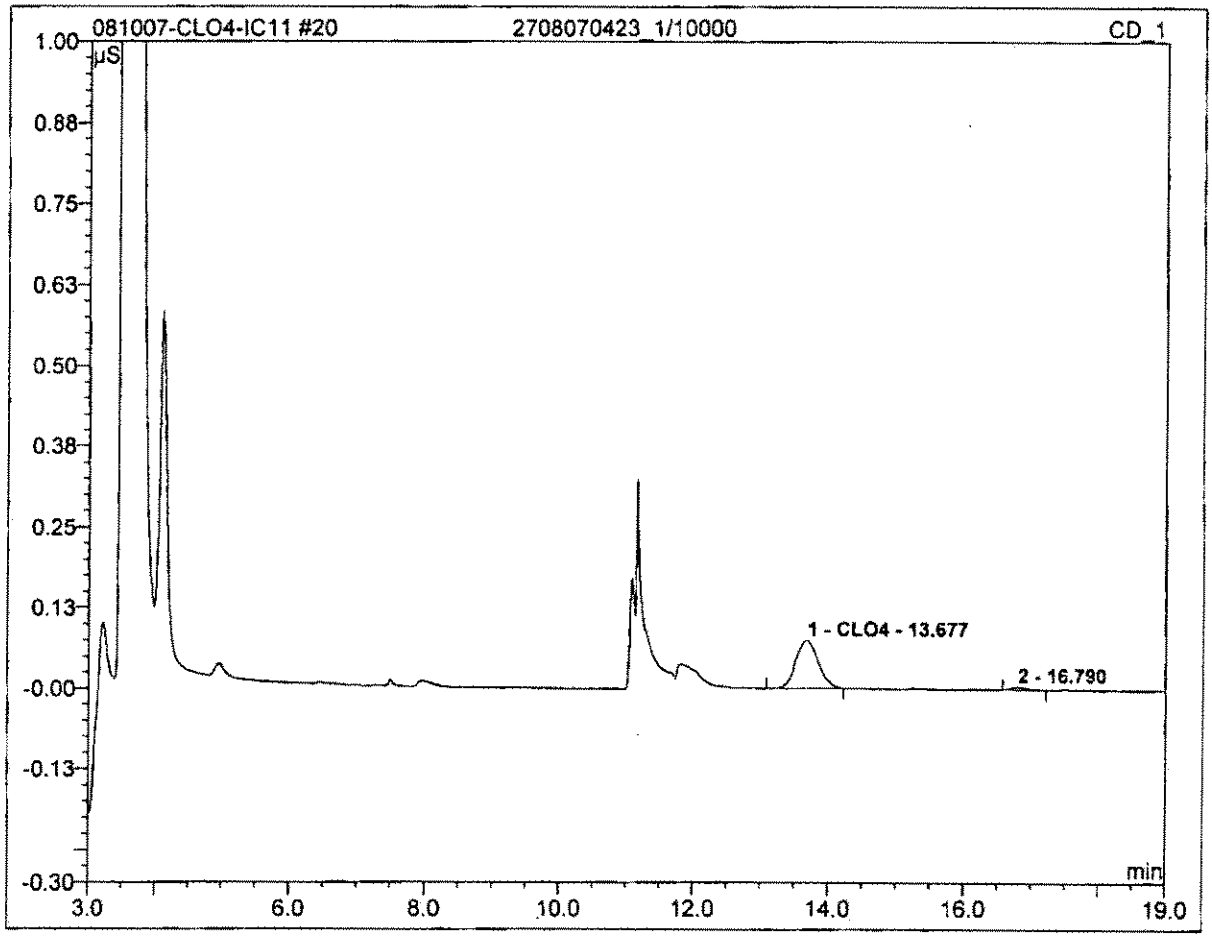
Sample Name:	**2708070422_1/2500**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 18:59**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**2500.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.67	CLO4	0.071	0.027	59.29	78546.144	BMB
Total:			0.071	0.027	59.29	78546.144	

20 2708070423_1/10000

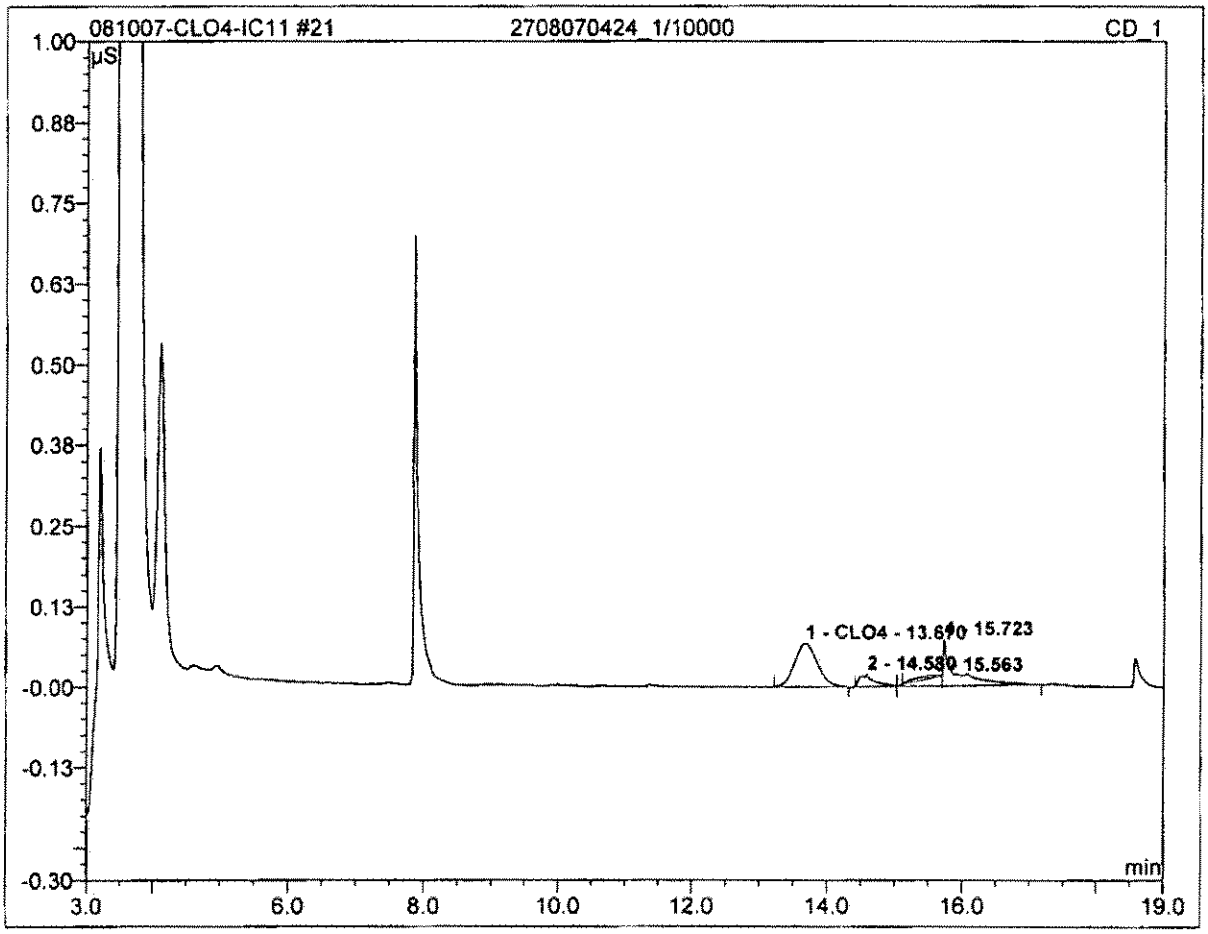
Sample Name:	**2708070423_1/10000**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 19:21**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**10000.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.68	CLO4	0.074	0.029	95.47	327122.780	BMB
Total:			0.074	0.029	95.47	327122.780	

21 2708070424_1/10000

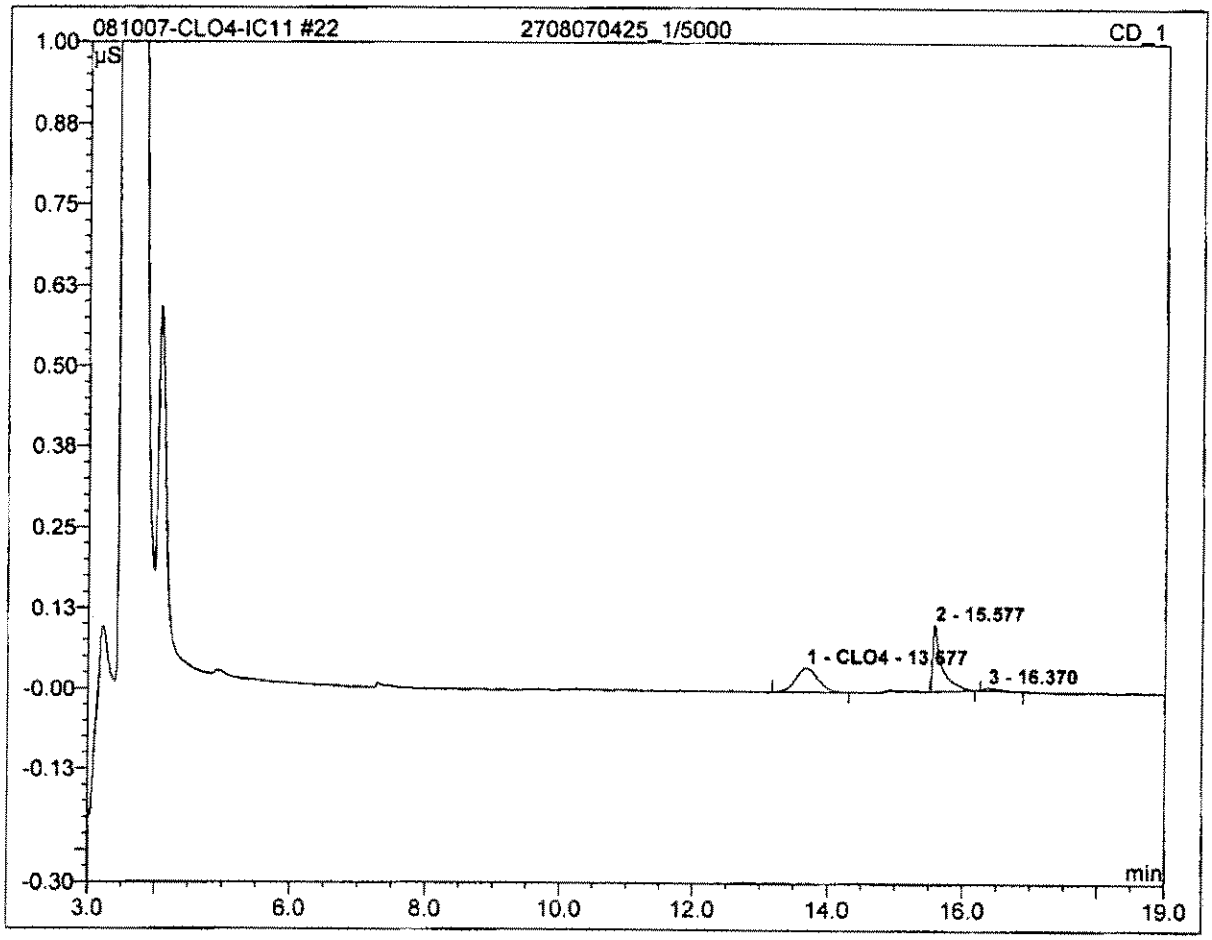
Sample Name:	**2708070424_1/10000**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 19:43**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**10000.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.67	CLO4	0.067	0.026	48.70	294562.055	BMB
Total:			0.067	0.026	48.70	294562.055	

22 2708070425_1/5000

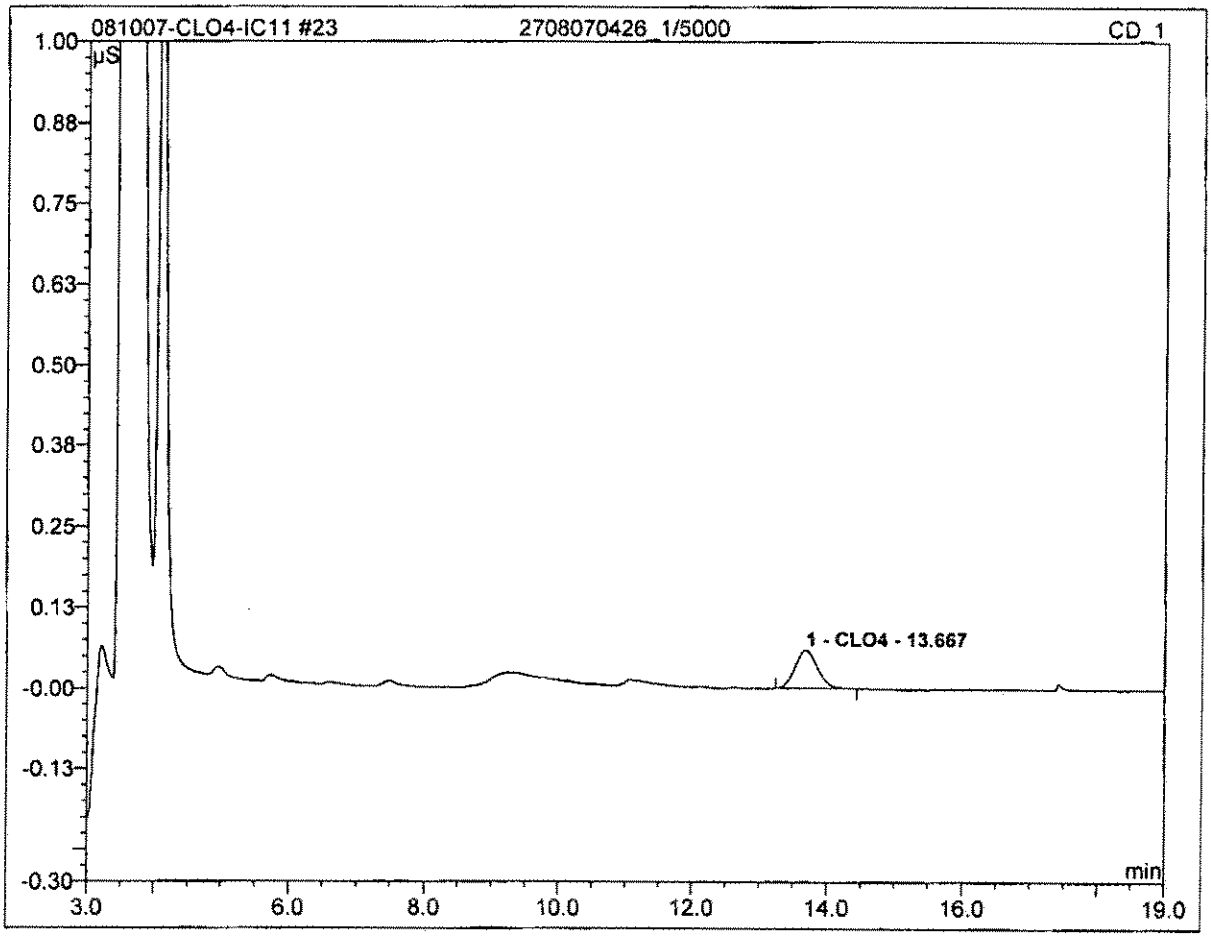
Sample Name:	**2708070425_1/5000**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 20:06**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**5000.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.68	CLO4	0.037	0.014	46.01	82342.312	BMB
Total:			0.037	0.014	46.01	82342.312	

23 2708070426_1/5000

Sample Name:	**2708070426_1/5000**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 20:28**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**5000.0000**

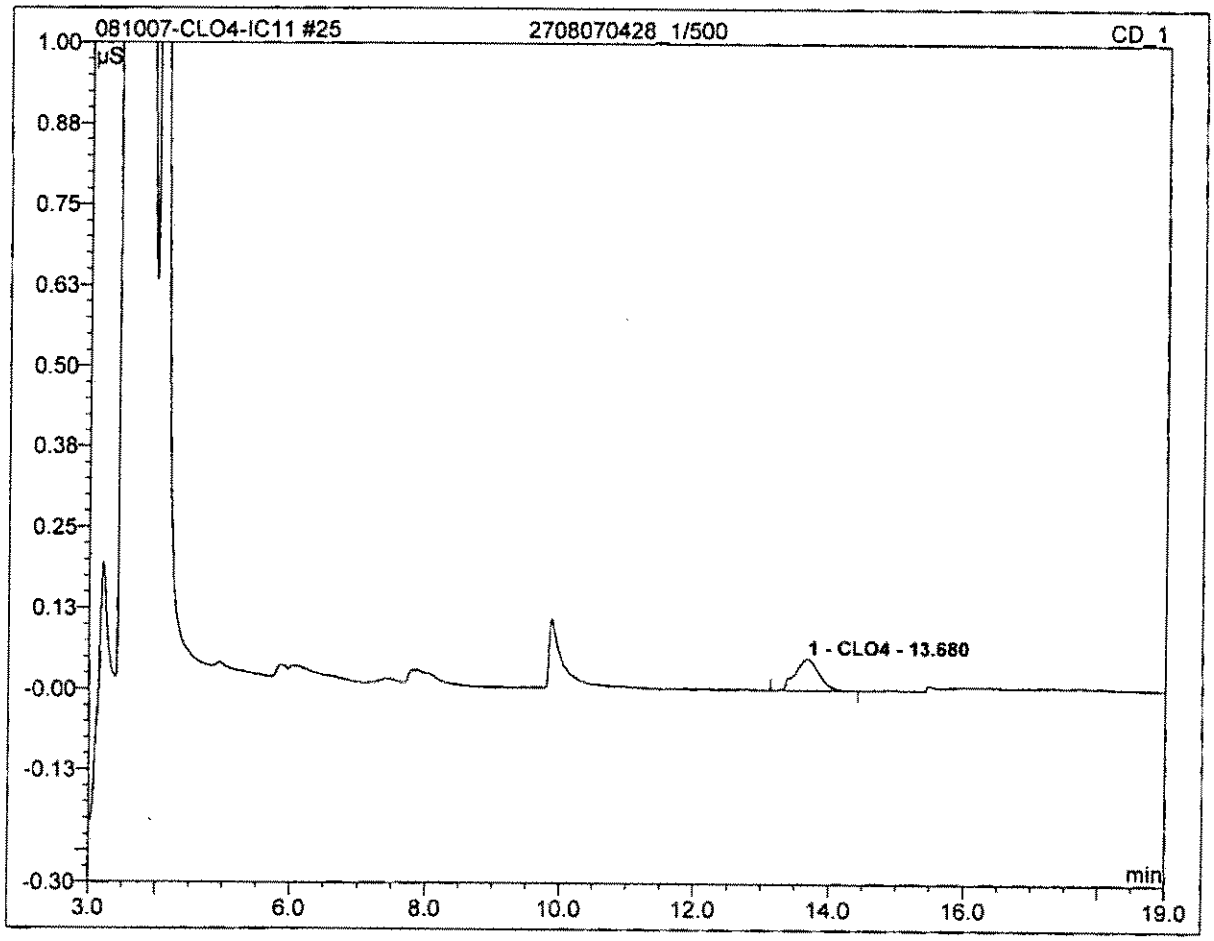


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.67	CLO4	0.058	0.023	100.00	129574.746	BMB
Total:			0.058	0.023	100.00	129574.746	

25 2708070428_1/500

MEETS HISTORICAL VALUE

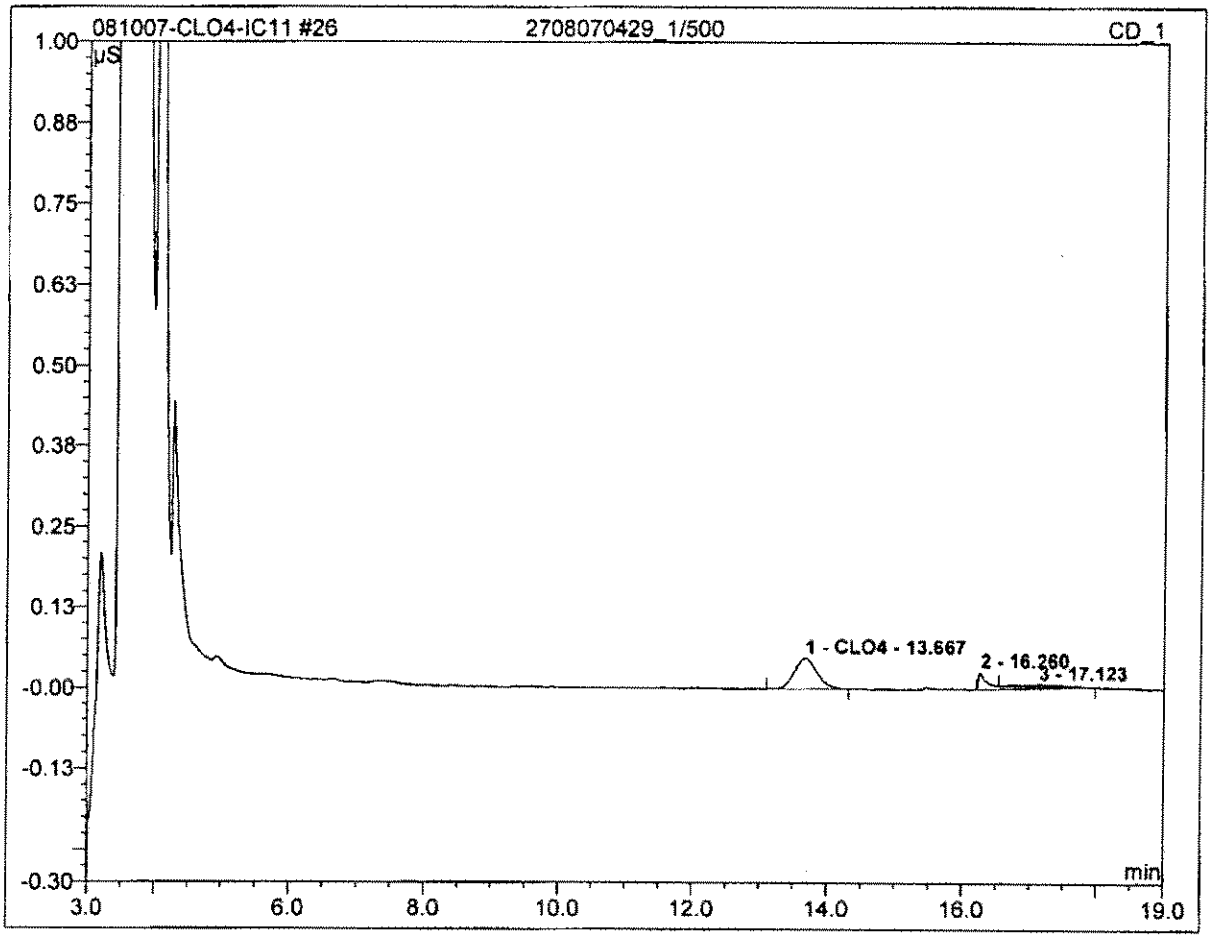
Sample Name:	**2708070428_1/500**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 21:13**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**500.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.68	CLO4	0.047	0.020	100.00	11443.216	BMB
Total:			0.047	0.020	100.00	11443.216	

26 2708070429_1/500

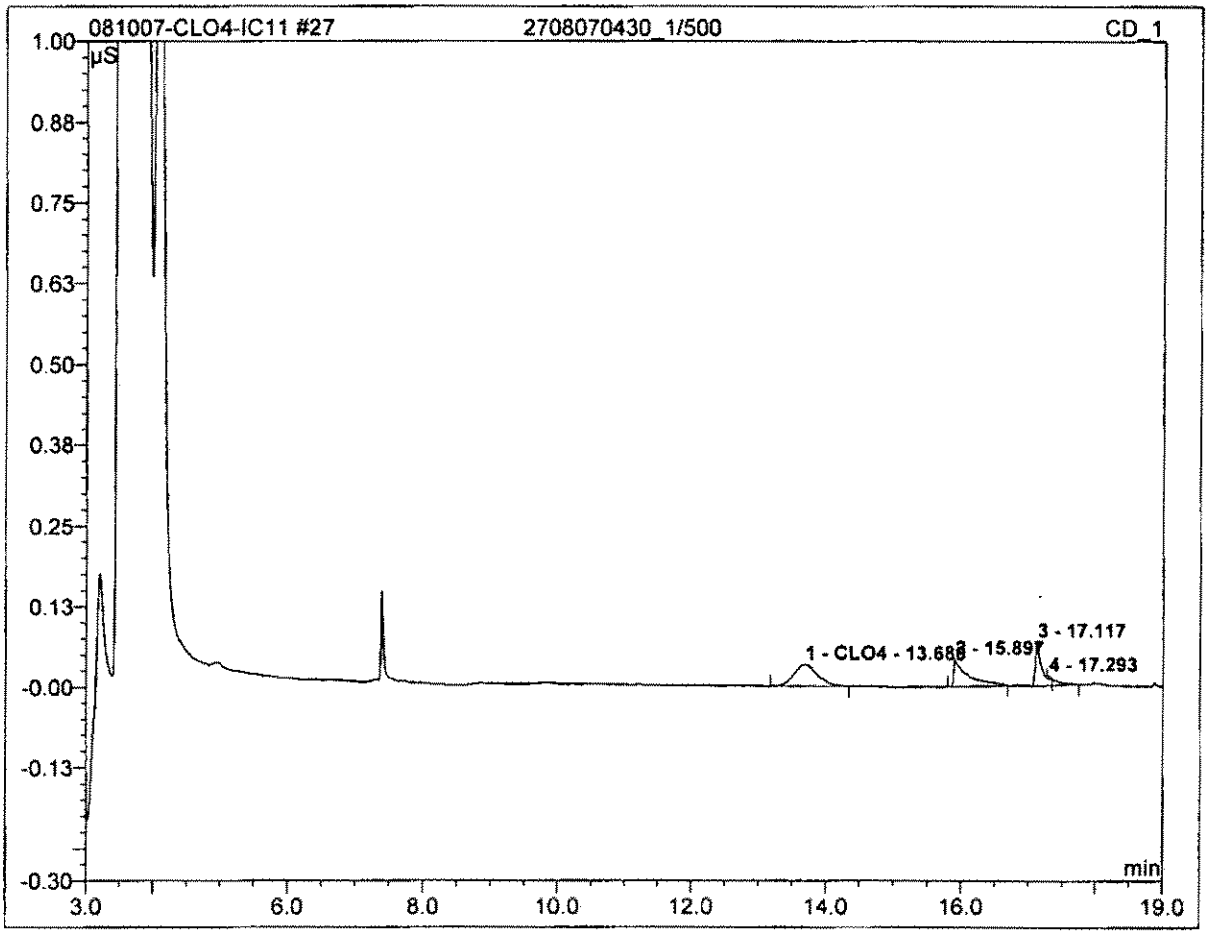
Sample Name:	**2708070429_1/500**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 21:36**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**500.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.67	CLO4	0.047	0.018	66.25	10603.699	BMB
Total:			0.047	0.018	66.25	10603.699	

27 2708070430_1/500

Sample Name:	**2708070430_1/500**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 21:58**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**500.0000**

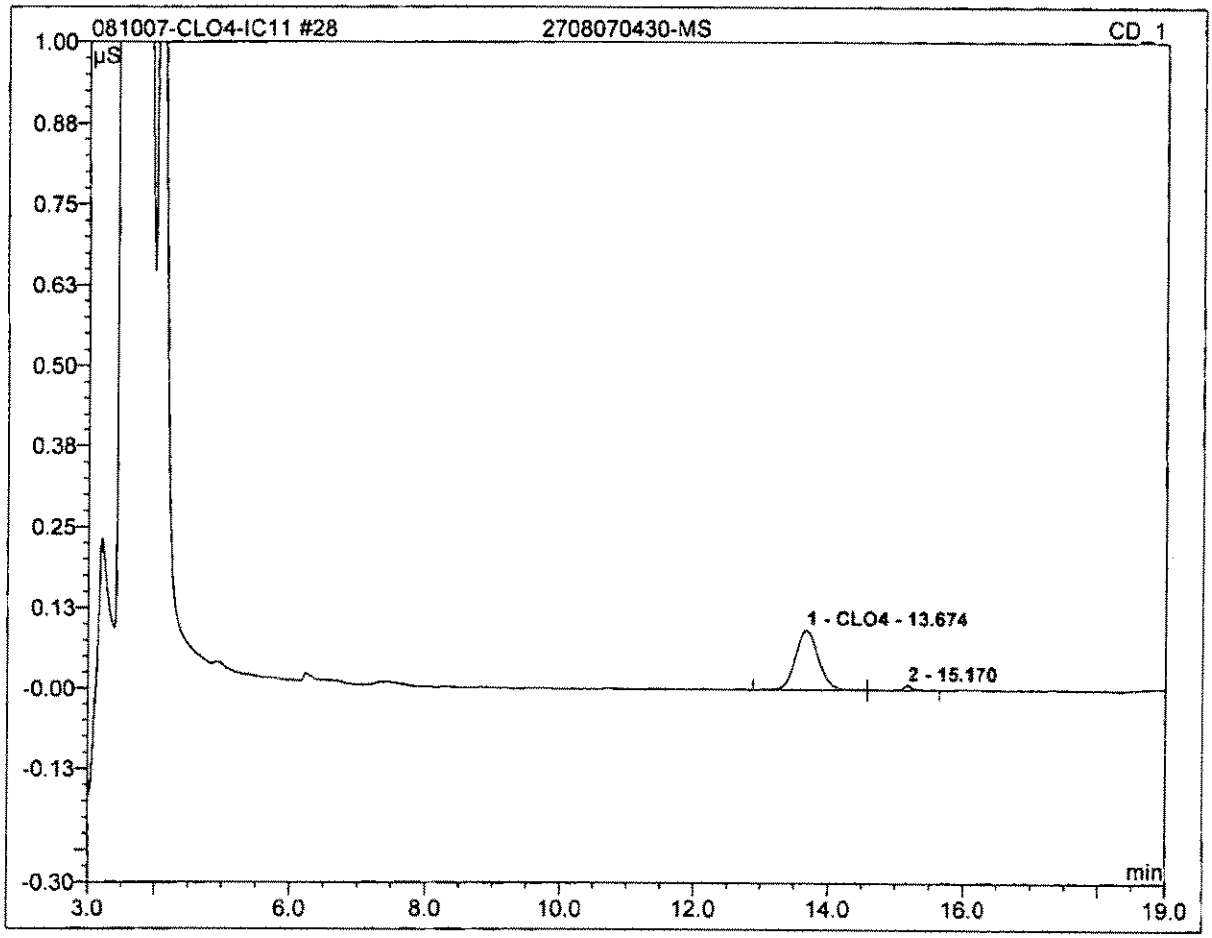


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.68	CLO4	0.034	0.014	41.42	7881.094	BMB
Total:			0.034	0.014	41.42	7881.094	

28 2708070430-MS

25

Sample Name:	**2708070430-MS**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 22:21**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**500.0000**

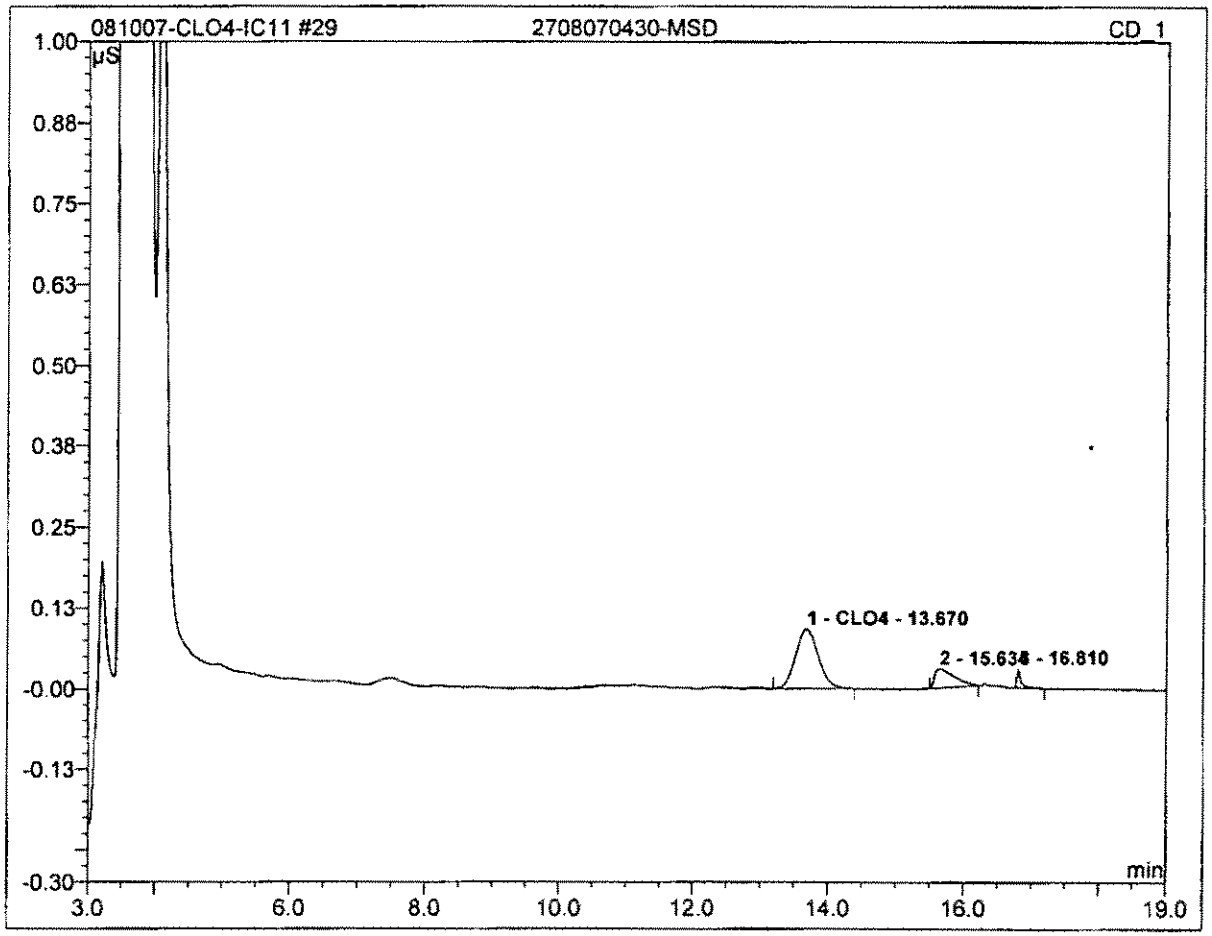


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.67	CLO4	0.093	0.037	95.33	21207.915	BM
Total:			0.093	0.037	95.33	21207.915	

29 2708070430-MSD

25

Sample Name:	**2708070430-MSD**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 22:43**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**500.0000**

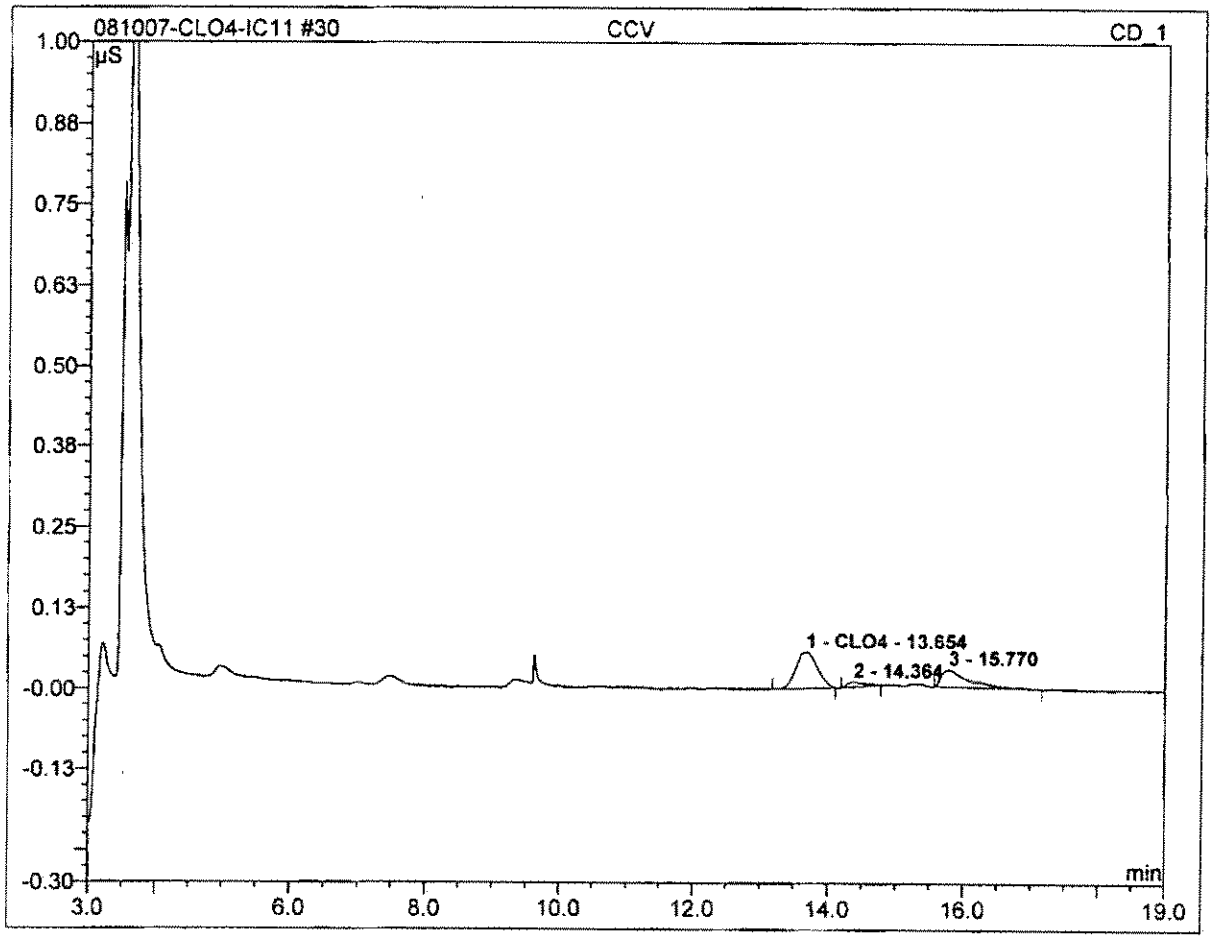


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.67	CLO4	0.092	0.036	74.43	20324.148	BMB
Total:			0.092	0.036	74.43	20324.148	

30 CCV

25

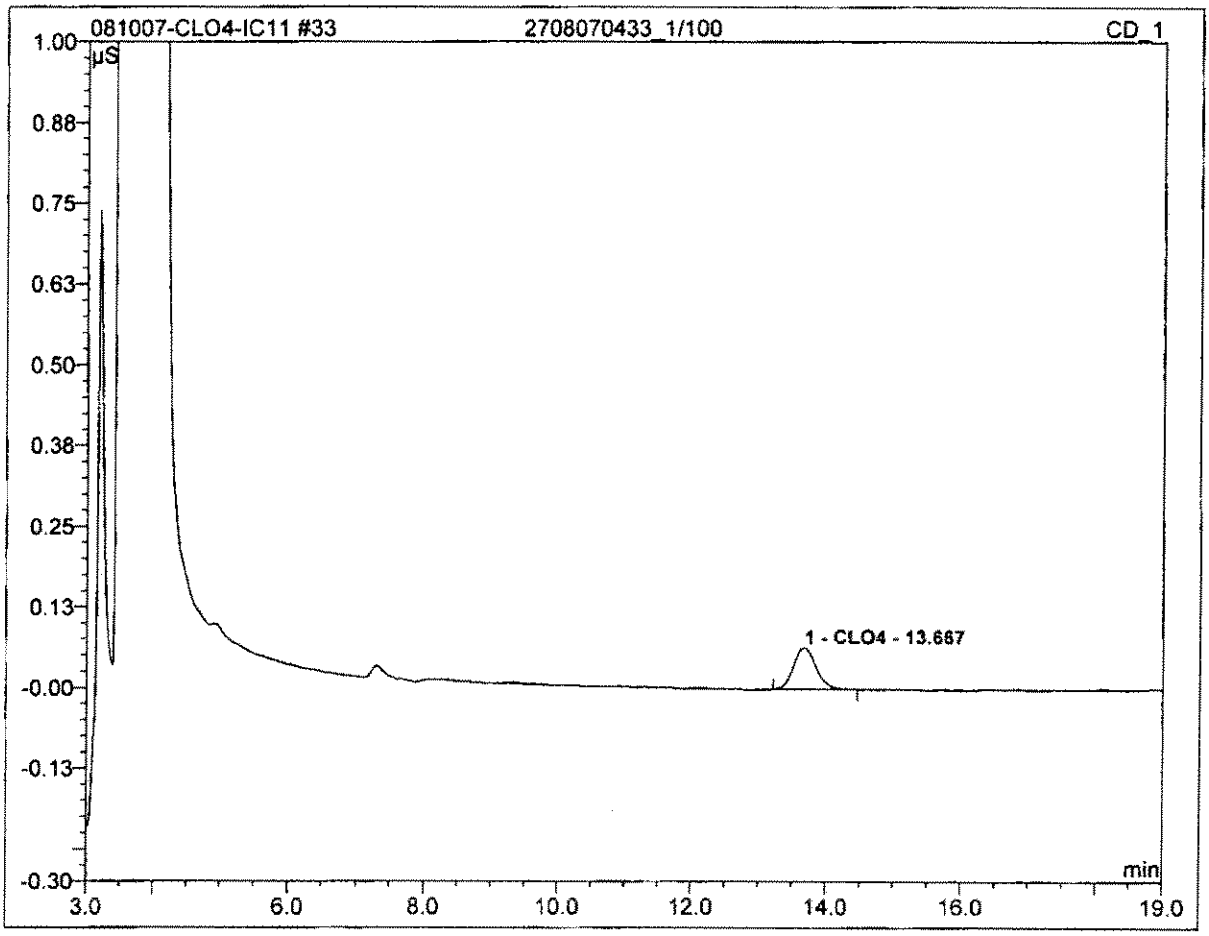
Sample Name:	**CCV**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/10/2007 23:05**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.65	CLO4	0.056	0.020	56.74	23.344	BMB
Total:			0.056	0.020	56.74	23.344	

33 2708070433_1/100

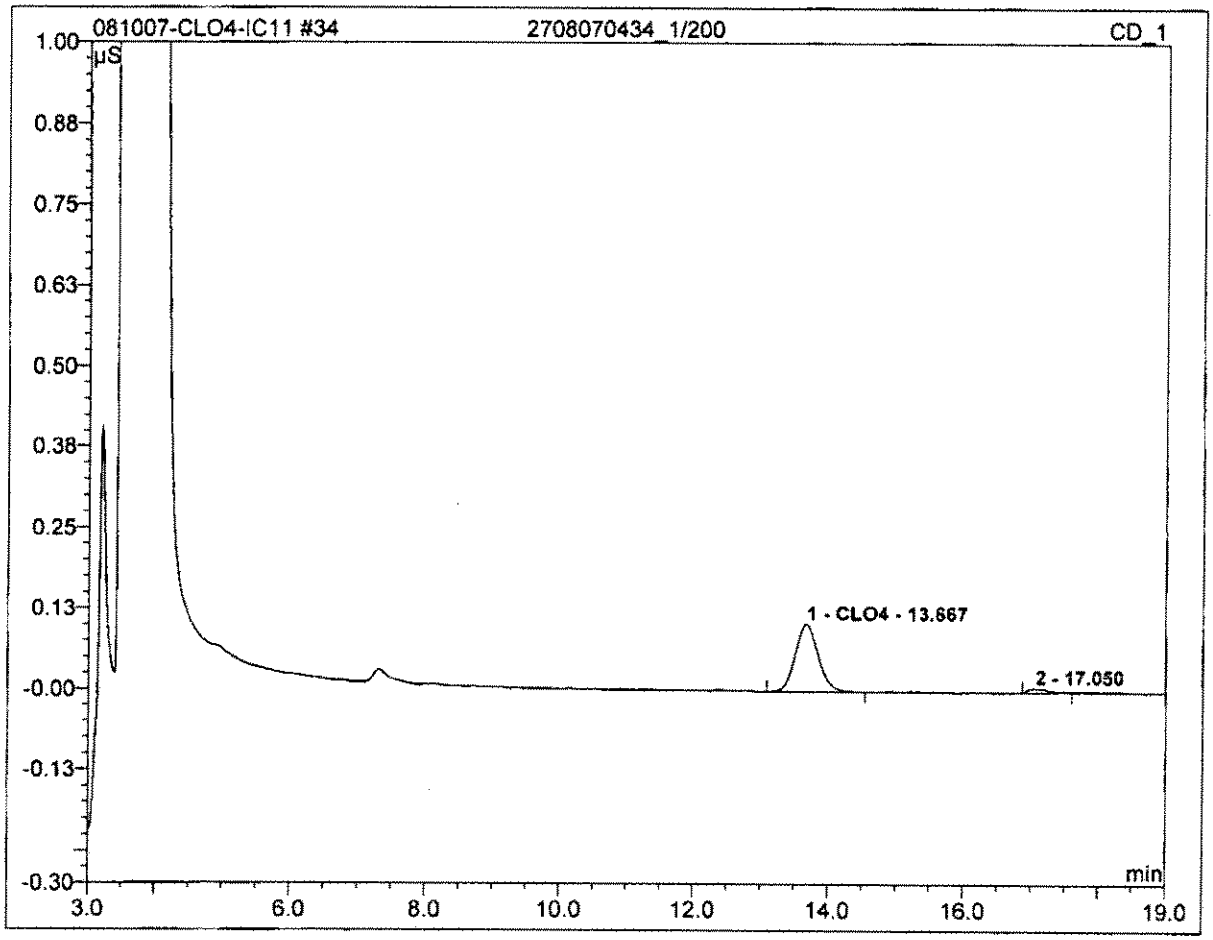
Sample Name:	**2708070433_1/100**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/11/2007 00:13**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**100.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.67	CLO4	0.064	0.025	100.00	2832.555	BMB
Total:			0.064	0.025	100.00	2832.555	

34 2708070434_1/200

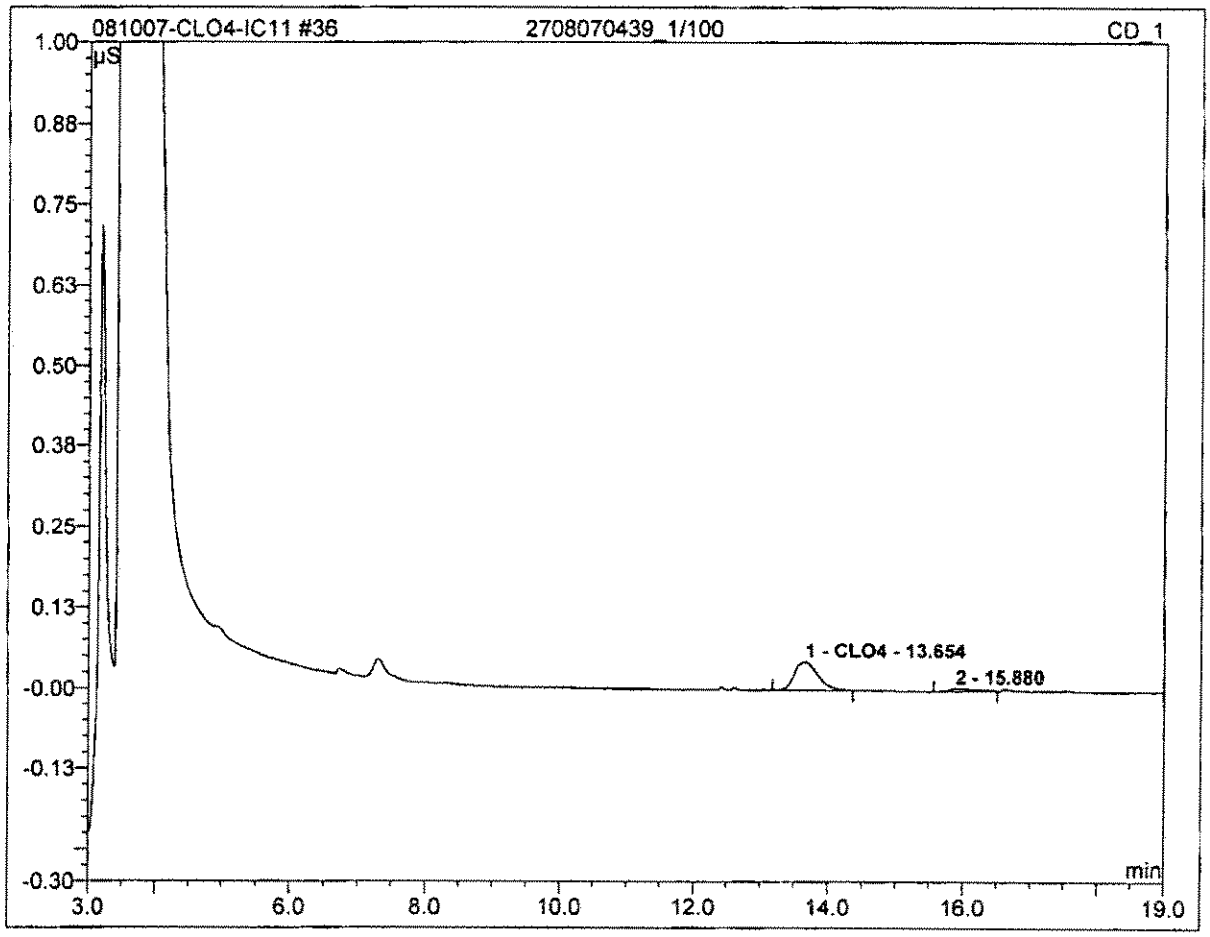
Sample Name:	**2708070434_1/200**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/11/2007 00:35**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**200.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.67	CLO4	0.104	0.041	95.07	9275.310	BMB
Total:			0.104	0.041	95.07	9275.310	

36 2708070439_1/100

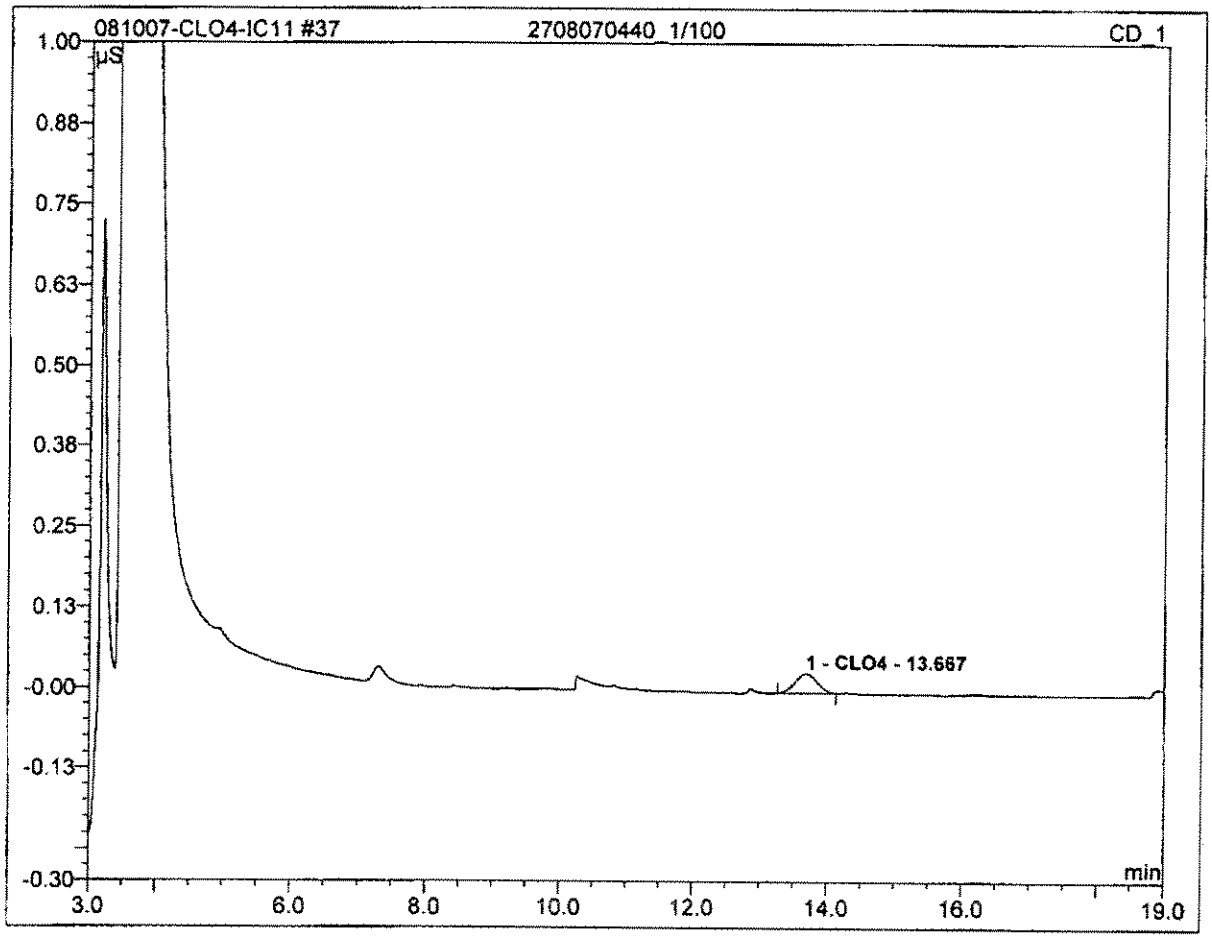
Sample Name:	**2708070439_1/100**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/11/2007 01:20**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**100.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.65	CLO4	0.043	0.017	90.17	2018.600	BMB
Total:			0.043	0.017	90.17	2018.600	

37 2708070440_1/100

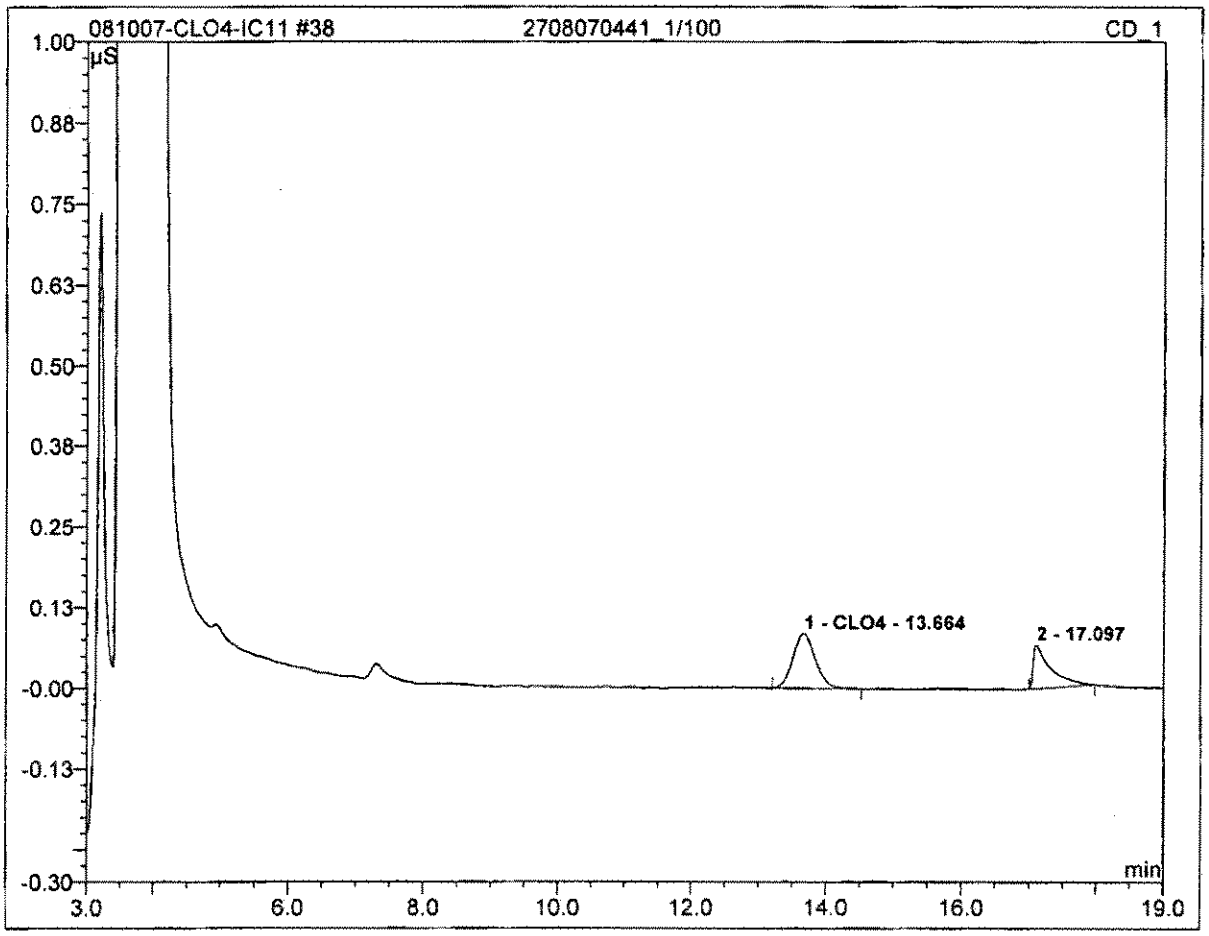
Sample Name:	**2708070440_1/100**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/11/2007 01:42**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**100.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.67	CLO4	0.030	0.011	100.00	1317.121	BMB
Total:			0.030	0.011	100.00	1317.121	

38 2708070441_1/100

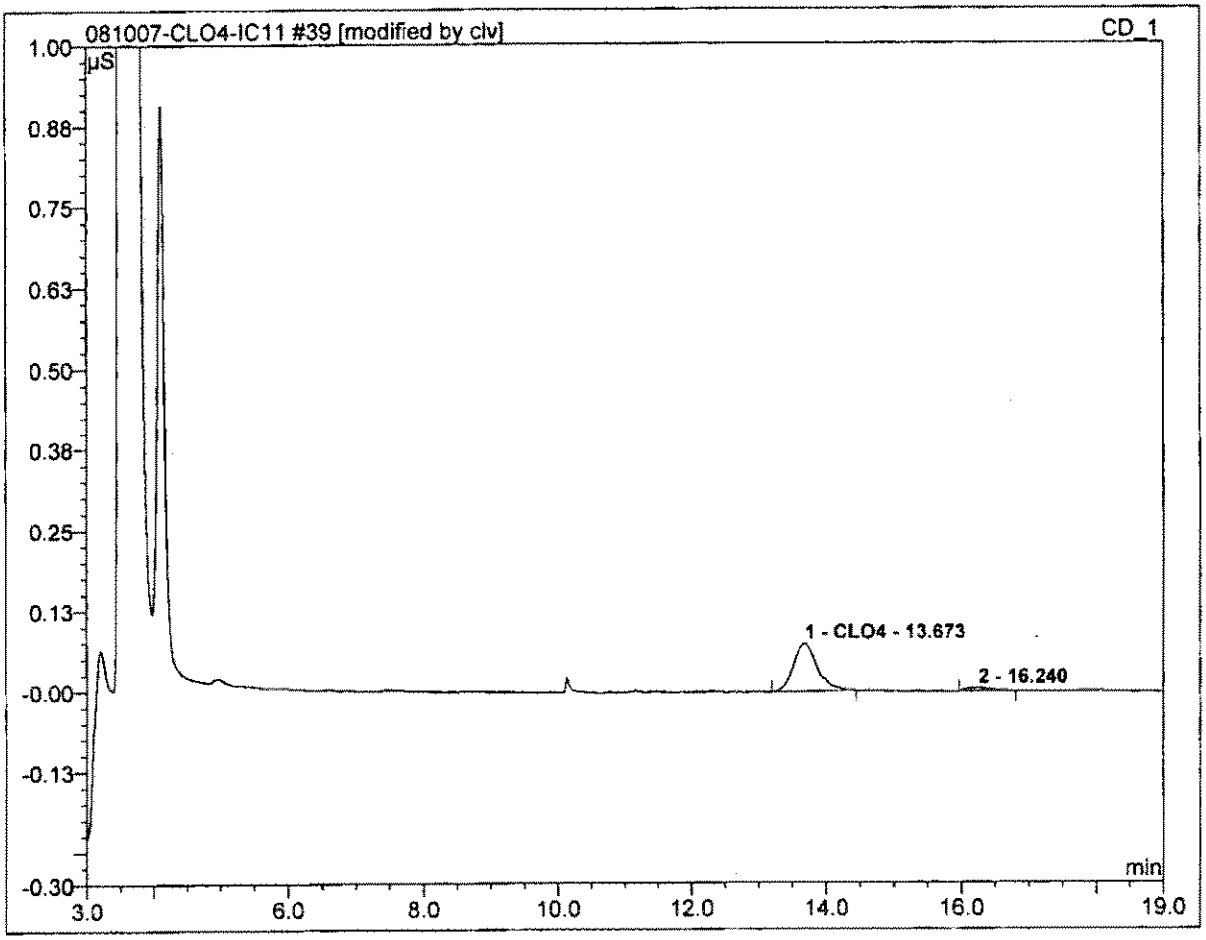
Sample Name:	**2708070441_1/100**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/11/2007 02:04**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**100.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.66	CLO4	0.084	0.033	61.57	3737.705	BMB
Total:			0.084	0.033	61.57	3737.705	

39 2708070442_1/10000

Sample Name:	**2708070442_1/10000**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/11/2007 02:27**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**10000.0000**

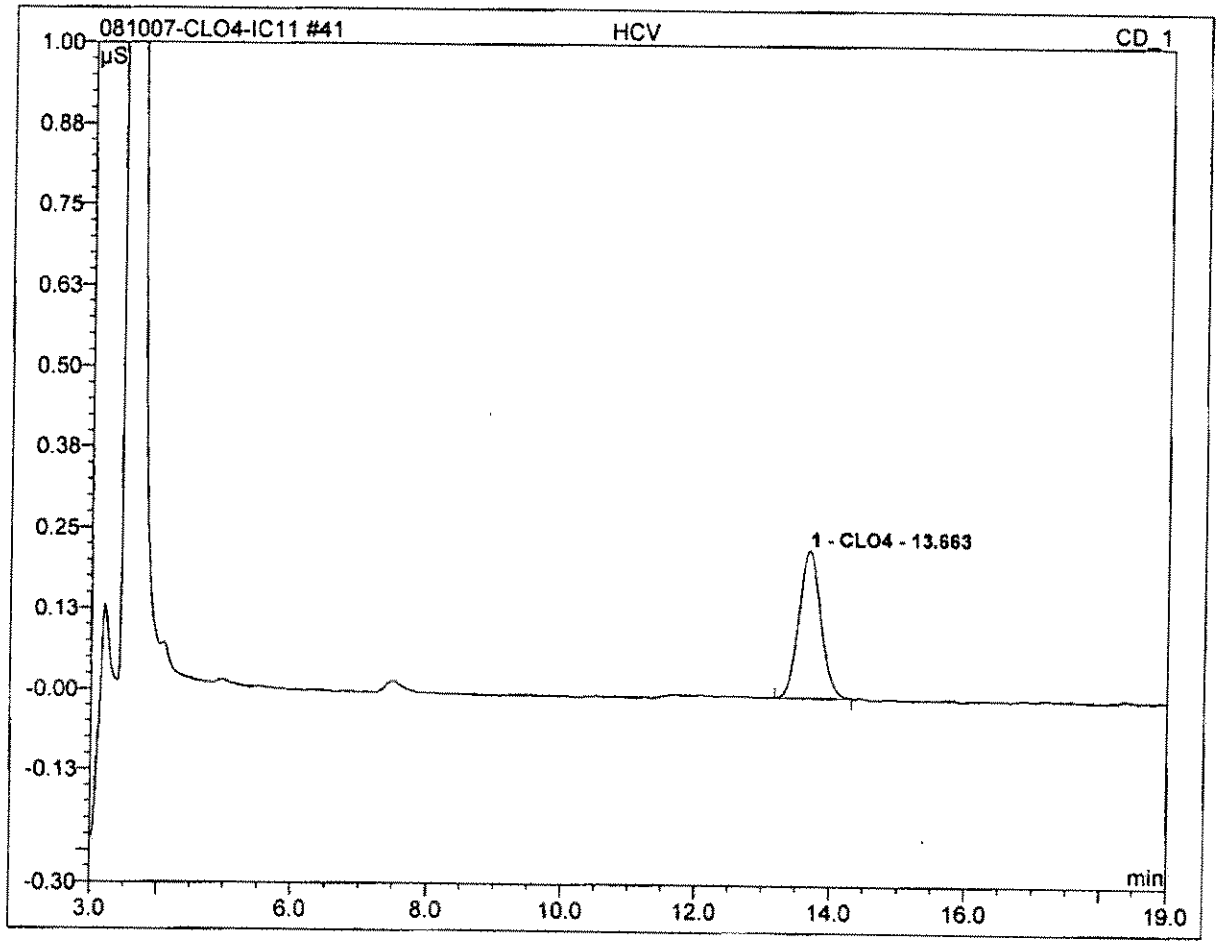


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.67	CLO4	0.074	0.030	92.67	339459.647	BMB*
Total:			0.074	0.030	92.67	339459.647	

41 HCV

100

Sample Name:	**HCV**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/11/2007 03:11**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

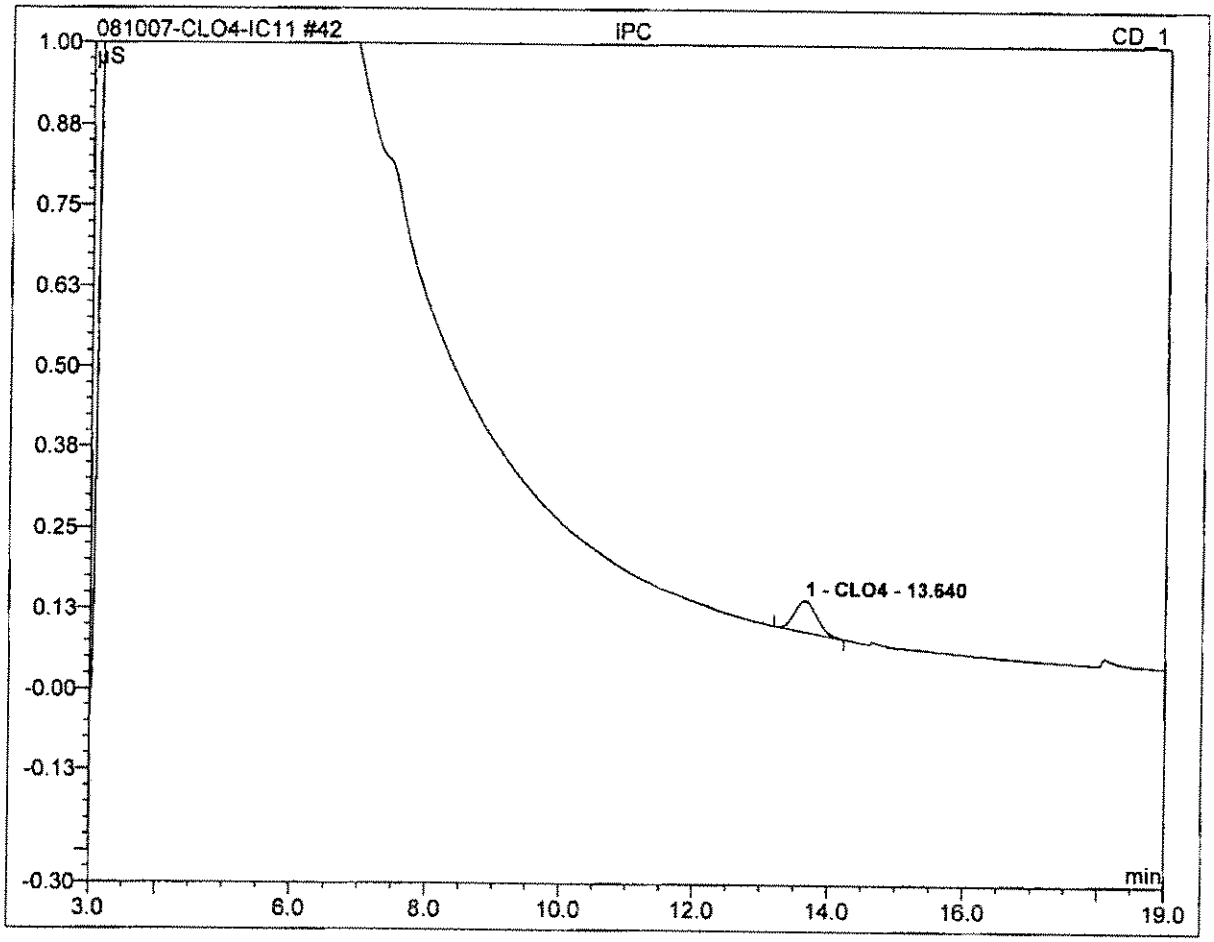


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.66	CLO4	0.228	0.087	100.00	100.677	BMB
Total:			0.228	0.087	100.00	100.677	

42 IPC

25

Sample Name:	**IPC**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/11/2007 03:34**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.64	CLO4	0.049	0.019	100.00	21.624	BMB
Total:			0.049	0.019	100.00	21.624	

Perchlorate QC Checklist

rev: 27 Mar 03

Analysis Date: 081507 **Analyst:** clw

QC'd by lm **Date** 25 Aug 07

Instrument: 1011 **Calculated MCT Level:** 3155 umhos/cm

Original IPC conductance: 3107 umhos/cm **Daily IPC conductance:** 3107 umhos/cm

Calibration including QCS

✓ QCS (20ppb) recovery is within 90% - 110% (18-22ppb) to verify that the calibration curve (minimum 5 points) still holds.

✓ Calibration curve is reanalyzed if QCS fails. Correlation Coefficient is 0.995 or better.

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

✓ MLBANK is analyzed before samples. Perchlorate, if present, is < or = half of the MRL.

✓ *L-ClO4 only*: ICCSCV at 2ppb is within 50%-150% (1-3ppb)

✓ *ClO4 only*: MRL at 4ppb is within 75%-125% (3-5ppb)

$PDA/H = 1.0$ ✓

✓ IPC (25ppb) recovery is between 80%-120% (20-30ppb)

✓ IPC retention time is within 5% of the retention time of the standards

✓ IPC Conductance level is within 10% of the original

LCS/LCSD (25ppb)

✓ Recoveries are between 90%-110% (22.5 – 27.5ppb)

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

MS/MSD (25ppb) NOTE: For UCMR, MS/MSD concentrations alternate between 4ppb and 25ppb

✓ Recoveries are within 80%-120% (20-30ppb) for 25ppb spike N/A (3.2-4.8ppb) for 4ppb spike

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

✓ RPD between MS and MSD is within 15%.

Continuing Calibration Verification (MCV, HCV) NOTE: For UCMR ECV and MCV are required

✓ Verification Checks alternate between mid- and high-level during the analysis (low- and mid-level for UCMR)

✓ MCV (25ppb) recovery is between 85%-115% (21.25 – 28.75ppb)

✓ HCV (100ppb) recovery is between 85%-115% (85-115ppb) N/A ECV (4ppb) recovery is between 75%-125% (3.0-5.0)

Pretreat and include the following QC parameters for any batch or part thereof containing samples requiring pretreatment

N/A One Laboratory Reagent Blank (LRB). Perchlorate is < or = half of MRL.

N/A One pair of Laboratory Control Samples (LCS/LCSD). Recovery of perchlorate is between 85%-115%.

— One Pair of Laboratory Fortified Matrices (MS/MSD). Recoveries are between 80%-120%

Samples

✓ All samples are analyzed within 28 days of collection.

✓ All samples are analyzed within MCT Conductance limit.

QIR

N/A QIR needed for failed QC

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

Sample No.	Sample Name	Dil.Fac.	Comment	Time	Amount CLO4 CD_1	
1	WASH	1.0	0	08.15.07 17:28	n.a.	
2	WASH	1.0	0	08.15.07 17:50	n.a.	
3	WASH	1.0	0	08.15.07 18:13	n.a.	
4	autocal1	1.0	0	08.15.07 18:35	n.a.	
5	autocal2	1.0	2	08.15.07 18:58	2.4457	
6	autocal3	1.0	4	08.15.07 19:20	3.3668	
7	autocal4	1.0	10	08.15.07 19:42	10.4520	
8	autocal5	1.0	25	08.15.07 20:05	24.4855	
9	autocal6	1.0	50	08.15.07 20:27	50.3062	
10	autocal7	1.0	100	08.15.07 20:50	99.9450	
11	QCS	1.0	20	08.15.07 21:12	18.0116	90.1 %
12	IPC	1.0	25	08.15.07 21:34	21.3549	85.4 %
13	-MBLK	1.0		08.15.07 21:57	n.a.	ND ≤ ½ MRL
14	-MRLCHK-2	1.0	2	08.15.07 22:19	2.1672	108 %
15	-MRLCHK-4 DNR	1.0	4	08.15.07 22:42	5.2335	DNR
16	-LCS1	1.0	25	08.15.07 23:04	24.8699	99.5 %
17	-LCS2	1.0	25	08.15.07 23:26	23.5086	94.0 %
18	2708070418_1/5	5.0		08.15.07 23:49	82.1034	
19	2708070427_1/10000	10000.0		08.16.07 00:11	244791.9998	
20	2708070431_1/10 DNR	10.0		08.16.07 00:34	n.a.	DNR
21	2708070432_1/5	5.0		08.16.07 00:56	n.a.	
22	2708070437_1/100	100.0	CONFIRMED	08.16.07 01:18	4392.3268	
23	2708040008_1/50000	50000.0		08.16.07 01:41	728370.9966	
24	2708070254	1.0		08.16.07 02:03	n.a.	
25	2708070254-MS	1.0		08.16.07 02:26	23.7032	
26	2708070254-MSD	1.0		08.16.07 02:48	24.6522	
27	2708060473_1/2	2.0		08.16.07 03:10	n.a.	
28	2708060474_1/2	2.0	~~25~~ clw 08/16/07	08.16.07 03:33	n.a.	
29	2708060475_1/2	2.0	~~25~~	08.16.07 03:55	n.a.	
30	CCV	1.0	25	08.16.07 04:18	25.9721	104 %
31	2708070270_1/10000	10000.0		08.16.07 04:40	218840.5923	
32	2708070595_1/10000	10000.0		08.16.07 05:02	236217.1762	
33	2708030110	1.0		08.16.07 05:25	n.a.	
34	2708070760_1/2	2.0		08.16.07 05:47	n.a.	
35	2708080198	1.0		08.16.07 06:10	n.a.	
36	2708080595	1.0		08.16.07 06:32	n.a.	
37	2708080624	1.0		08.16.07 06:54	n.a.	
38	2708080625	1.0		08.16.07 07:17	n.a.	
39	2708080626	1.0		08.16.07 07:39	n.a.	
40	2708080627	1.0		08.16.07 08:02	n.a.	
41	HCV	1.0	100	08.16.07 08:24	107.7401	108 %
42	IPC	1.0	25	08.16.07 08:46	21.5699	
43	-MRLCHK-4	1.0	25	08.16.07 09:40	4.1206	103 %

MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

CONDUCTIVITY MW SOP REVISION 5
SM2510B

Analysis Date: L23 08/10/07
Analyst: CLM
Reviewed By: _____
LIMS Check By: _____

Was QC Criteria Met: Y N
Was QIR Needed: Y N WBM 8/10/07

Time of Analysis Start: 1230 End: _____
MRL 2umhos/cm: Rx# _____ exp of solution: _____
KCl Std 1412 Rx# 20166E exp of solution 12/07
TV = 1412 µmho/cm @ 25°C for 0.0100M
Reading: 1372
Instrument: YSI Model 3200 SN:01A0504, Year Acquired 2001 New

Run #	Sample Number	Sample ID	Client	Date Collected	Temp °C	pH	Scale (µmho/mmho)	Result: Instrument	Result: Reported (µmho/cm)	Comments
Blk	Blank				21	7	uS		0.3602	
STD	MRL 2umhos/cm								—	1-3 ±50% of TV
STD	KCl - 1000 mhos/cm								—	950-1050 ±5% of TV
1	2708070418	ART1	KM	08/06/07				10000		
2	0422	2						15000		
3	0423	3						10000		
4	0424	4						8800		
5	0425	6						10000		
6	0426	7						14500		
7	0427	8						14600		
8	0428	RC9952/53						5900		
9	0429	115R						6200		
10	0430	116R						6200		
DUP	↓	↓						6200		RPD < 5%
11	0431	SEEP SUMP						5700		
12	0432	SF1						9900		
13	0433	RC117						5300		
14	0434	118						6400		
15	0435	119						5600		
16	0436	120						4600		
17	0440	121						4300		
18	0441	133						5100		
19	0442	ART9						10000		
20	0521	EFF						9500		
DUP	↓	↓						9500		RPD < 5%
STD	KCl - 10 mhos/cm								—	8-12 RPD < 20% of TV

% RPD = |S1-S2| * 100 / (S1+S2)/2

S1 = reading of 1st sample
S2 = reading of 2nd sample

conductivity.xls

Sequence: 081507-CLO4-IC11
Operator: clv

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 43

Created: 8/14/2007 3:55:43 PM by clv
Last Update: 8/16/2007 10:57:13 AM by clv

No.	Name	Sample ID	Dil. Factor	Type	Comment	Status
1	WASH		1.0000	Unknown	0	Finished
2	WASH		1.0000	Unknown	0	Finished
3	WASH		1.0000	Unknown	0	Finished
4	autocal1		1.0000	Standard	0	Finished
5	autocal2	R201449 EXP 07/28/09	1.0000	Standard	2	Finished
6	autocal3		1.0000	Standard	4	Finished
7	autocal4		1.0000	Standard	10	Finished
8	autocal5		1.0000	Standard	25	Finished
9	autocal6		1.0000	Standard	50	Finished
10	autocal7		1.0000	Standard	100	Finished
11	QCS	R201449 EXP 07/28/09	1.0000	Unknown	20	Finished
12	IPC	EC=3155	1.0000	Unknown	25	Finished
13	-MBLK		1.0000	Unknown		Finished
14	-MRLCHK-2	2	1.0000	Unknown	2	Finished
15	-MRLCHK-4 DNR	4	1.0000	Unknown	4	Finished
16	-LCS1	25	1.0000	Unknown	25	Finished
17	-LCS2	25	1.0000	Unknown	25	Finished
18	2708070418_1/5	KM ART-1	5.0000	Unknown		Finished
19	2708070427_1/10000	KM ART-8	10000.0000	Unknown		Finished
20	2708070431_1/10 DNR	KM SEEP SURFACE	10.0000	Unknown		Finished
21	2708070432_1/5	KM SF-1	5.0000	Unknown		Finished
22	2708070437_1/100	KM PC-119	100.0000	Unknown	CONFIRMED	Finished
23	2708040008_1/50000	KM M-89	50000.0000	Unknown		Finished
24	2708070254	CALWATER 678	1.0000	Unknown		Finished
25	2708070254-MS	25	1.0000	Unknown		Finished
26	2708070254-MSD	25	1.0000	Unknown		Finished
27	2708060473_1/2	IEUA CUCAMONGA CRK	2.0000	Unknown		Finished
28	2708060474_1/2	IEUA CUCAMONGA CRK	2.0000	Unknown	25	Finished
29	2708060475_1/2	IEUA SAN ANTONIO CRK	2.0000	Unknown	25	Finished
30	CCV	25	1.0000	Unknown	25	Finished
31	2708070270_1/10000	KM INF-COMP	10000.0000	Unknown		Finished
32	2708070595_1/10000	KM INF	10000.0000	Unknown		Finished
33	2708030110	TUCSON 112	1.0000	Unknown		Finished
34	2708070760_1/2	IEUA RP3	2.0000	Unknown		Finished
35	2708080198	VALEYWA W1+4	1.0000	Unknown		Finished
36	2708080595	FOOTHILL MWD A	1.0000	Unknown		Finished
37	2708080624	VALENCIA W6	1.0000	Unknown		Finished
38	2708080625	VALENCIA W2 SOURCE	1.0000	Unknown		Finished
39	2708080626	VALENCIA W2 LEAD	1.0000	Unknown		Finished
40	2708080627	VALENCIA W2 LAG	1.0000	Unknown		Finished
41	HCV	100	1.0000	Unknown	100	Finished
42	IPC	EC=3155	1.0000	Unknown	25	Finished

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 43
Created: 8/14/2007 3:55:43 PM by clv
Last Update: 8/16/2007 10:57:13 AM by clv

No.	Name	Program	Method	Inj. Date/Time	*Analyst
1	WASH	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 5:28:34 PM	clv
2	WASH	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 5:50:58 PM	clv
3	WASH	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 6:13:22 PM	clv
4	autocal1	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 6:35:46 PM	clv
5	autocal2	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 6:58:10 PM	clv
6	autocal3	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 7:20:34 PM	clv
7	autocal4	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 7:42:58 PM	clv
8	autocal5	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 8:05:22 PM	clv
9	autocal6	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 8:27:45 PM	clv
10	autocal7	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 8:50:08 PM	clv
11	QCS	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 9:12:32 PM	clv
12	IPC	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 9:34:56 PM	clv
13	-MBLK	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 9:57:19 PM	clv
14	-MRLCHK-2	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 10:19:43 PM	clv
15	-MRLCHK-4 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 10:42:07 PM	clv
16	-LCS1	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 11:04:30 PM	clv
17	-LCS2	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 11:26:54 PM	clv
18	2708070418_1/5	Perchlorate-IC11	IC#4-CLO4-LOW	8/15/2007 11:49:18 PM	clv
19	2708070427_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 12:11:41 AM	clv
20	2708070431_1/10 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 12:34:05 AM	clv
21	2708070432_1/5	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 12:56:29 AM	clv
22	2708070437_1/100	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 1:18:52 AM	clv
23	2708040008_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 1:41:16 AM	clv
24	2708070254	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 2:03:40 AM	clv
25	2708070254-MS	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 2:26:04 AM	clv
26	2708070254-MSD	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 2:48:27 AM	clv
27	2708060473_1/2	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 3:10:51 AM	clv
28	2708060474_1/2	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 3:33:15 AM	clv
29	2708060475_1/2	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 3:55:38 AM	clv
30	CCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 4:18:02 AM	clv
31	2708070270_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 4:40:26 AM	clv
32	2708070595_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 5:02:49 AM	clv
33	2708030110	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 5:25:17 AM	clv
34	2708070760_1/2	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 5:47:41 AM	clv
35	2708080198	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 6:10:05 AM	clv
36	2708080595	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 6:32:29 AM	clv
37	2708080624	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 6:54:53 AM	clv
38	2708080625	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 7:17:17 AM	clv
39	2708080626	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 7:39:41 AM	clv
40	2708080627	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 8:02:05 AM	clv
41	HCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 8:24:28 AM	clv
42	IPC	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 8:46:52 AM	clv

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 43
Created: 8/14/2007 3:55:43 PM by clv
Last Update: 8/16/2007 10:57:13 AM by clv

No.	Name	Sample ID	Dil. Factor	Type	Comment	Status
43	-MRLCHK-4	4	1.0000	Unknown	25	Finished

Sequence: 081507-CLO4-IC11
Operator: clv
Printed: 8/16/2007 11:05:53 AM

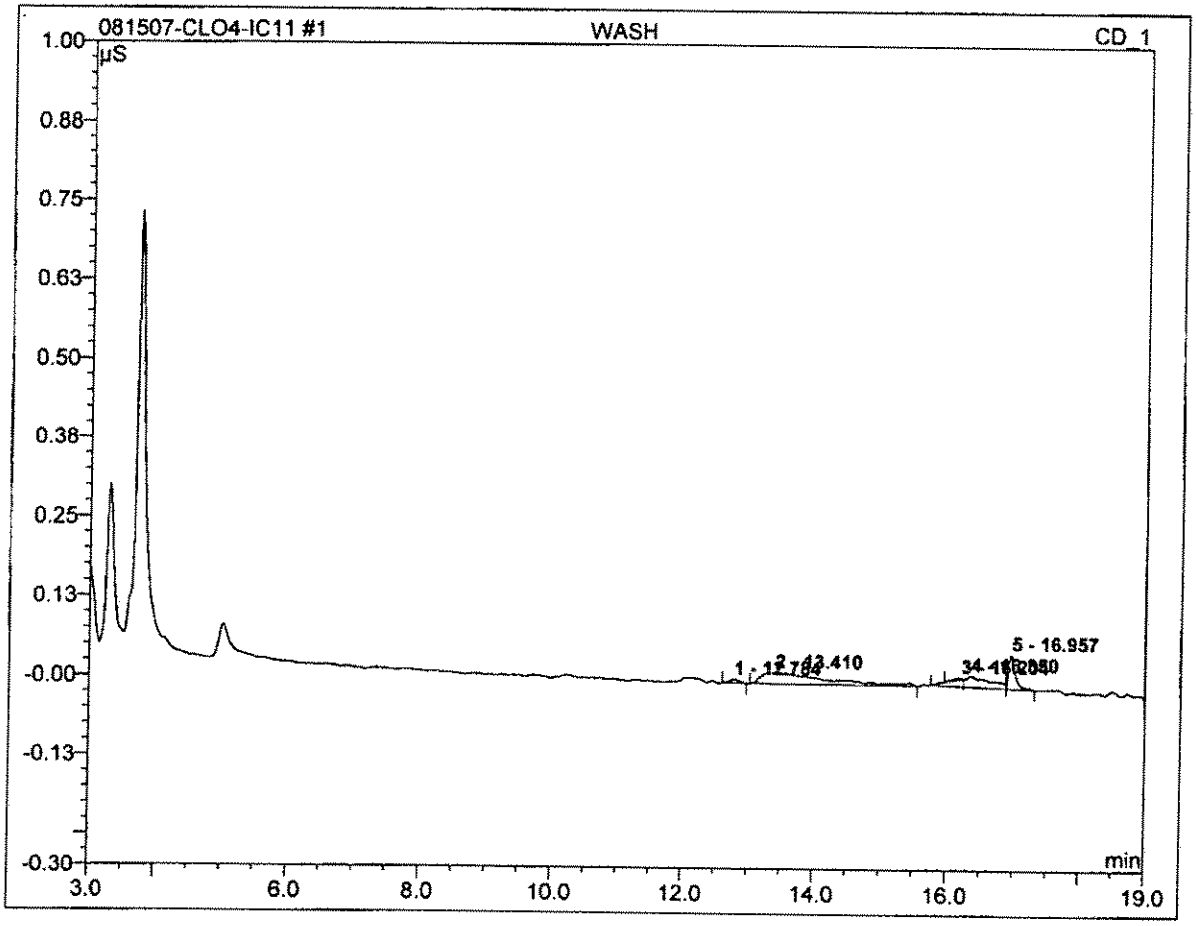
Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 43
Created: 8/14/2007 3:55:43 PM by clv
Last Update: 8/16/2007 10:57:13 AM by clv

No.	Name	Program	Method	Inj. Date/Time	*Analyst
43	-MRLCHK-4	Perchlorate-IC11	IC#4-CLO4-LOW	8/16/2007 9:40:26 AM	clv

1 WASH

0

Sample Name:	**WASH**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 17:28**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

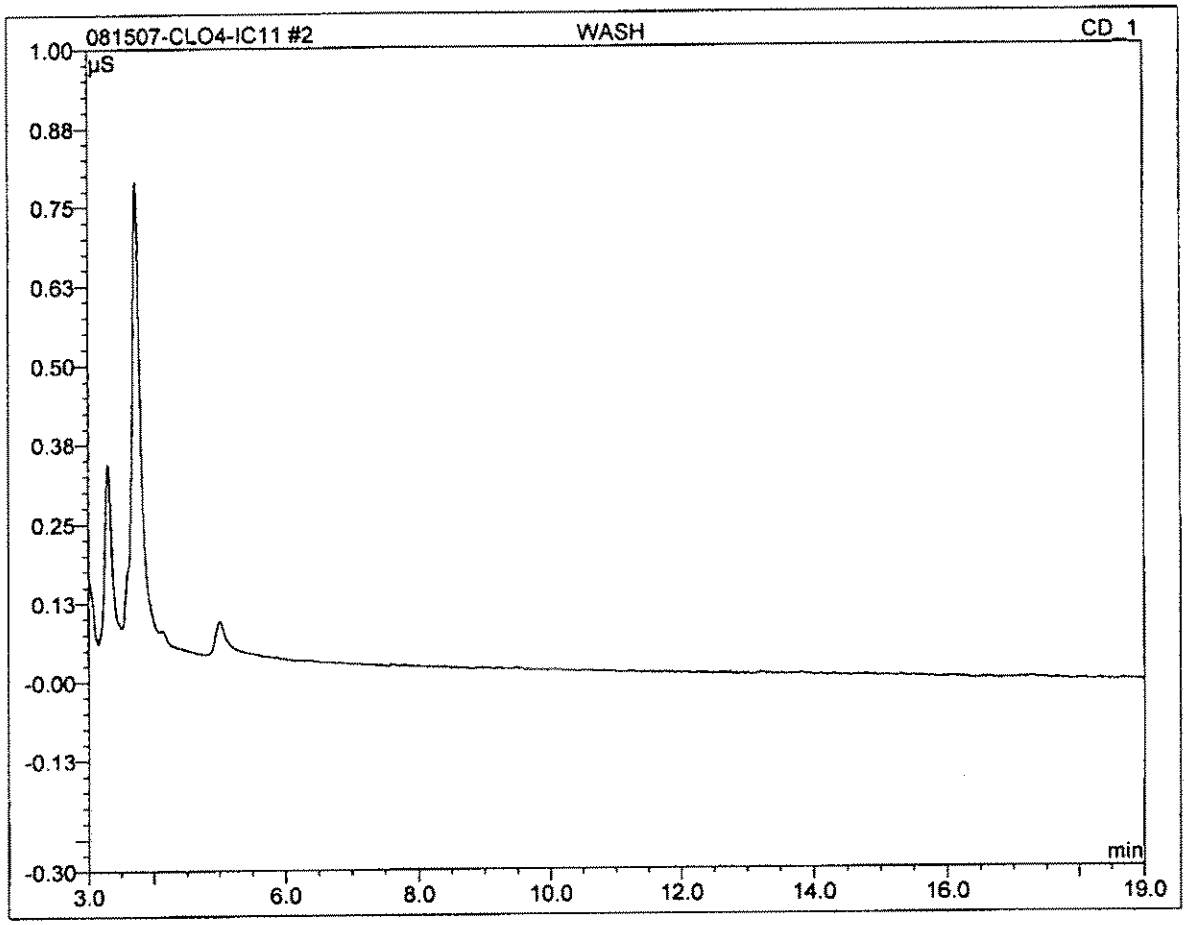


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

2 WASH

0

Sample Name:	**WASH**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 17:50**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

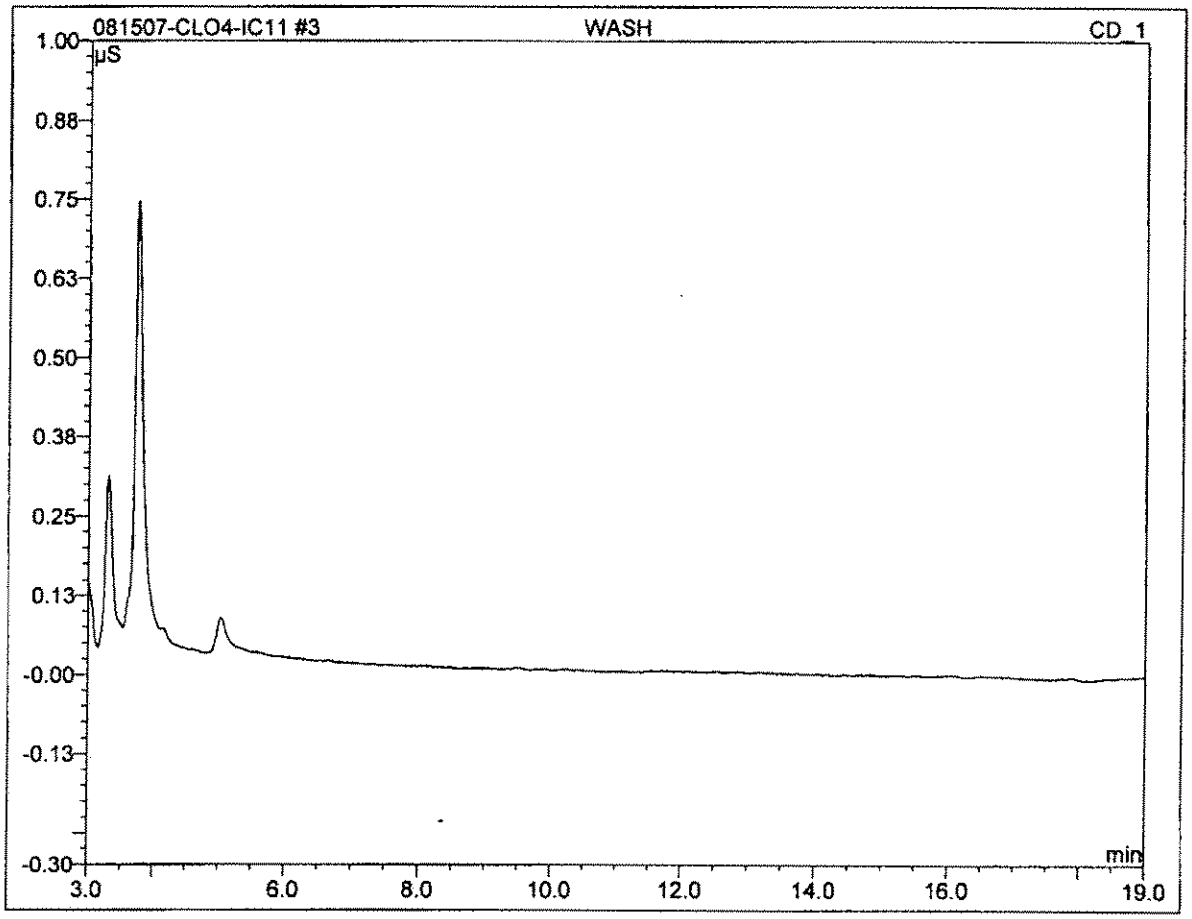


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

3 WASH

0

Sample Name:	**WASH**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 18:13**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

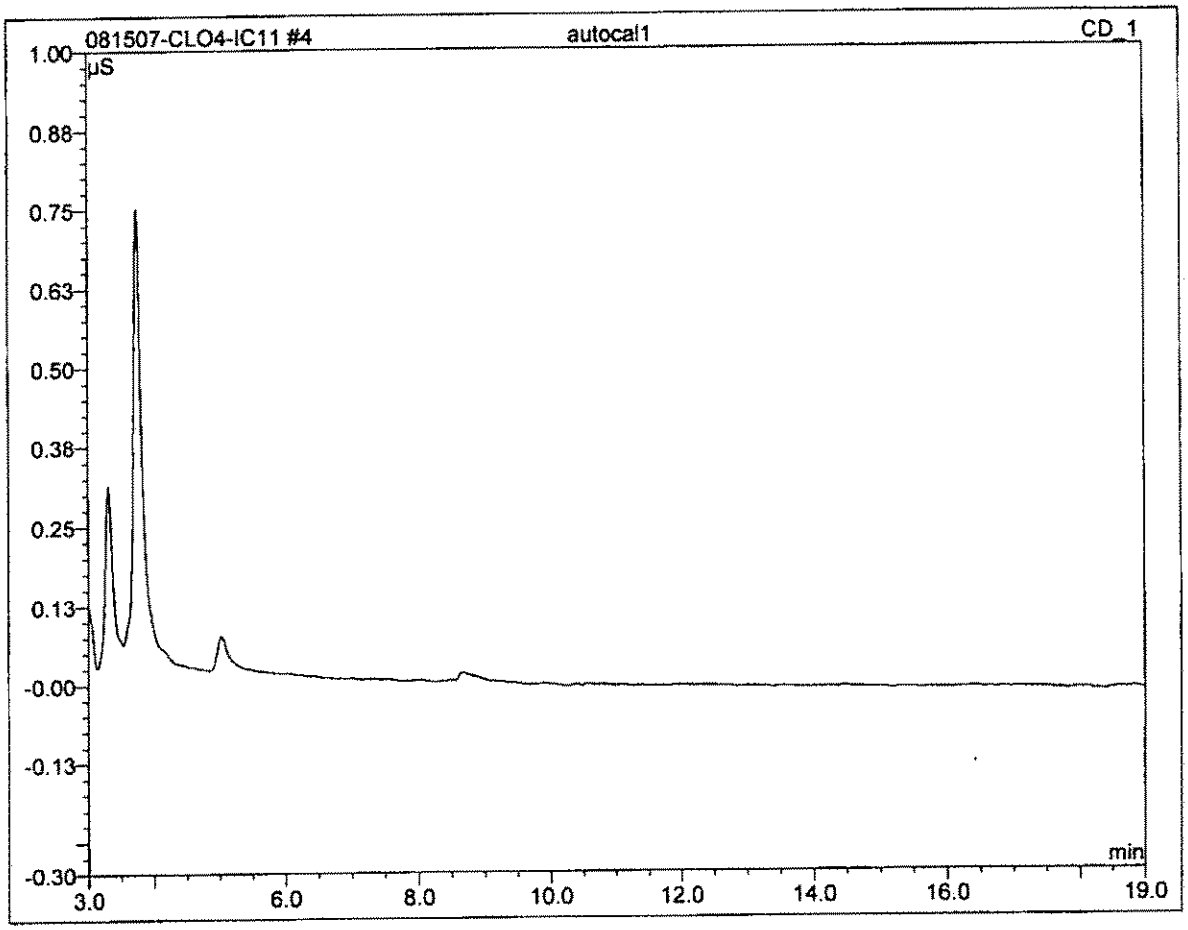


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

4 autocal1

0

Sample Name:	**autocal1**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 18:35**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

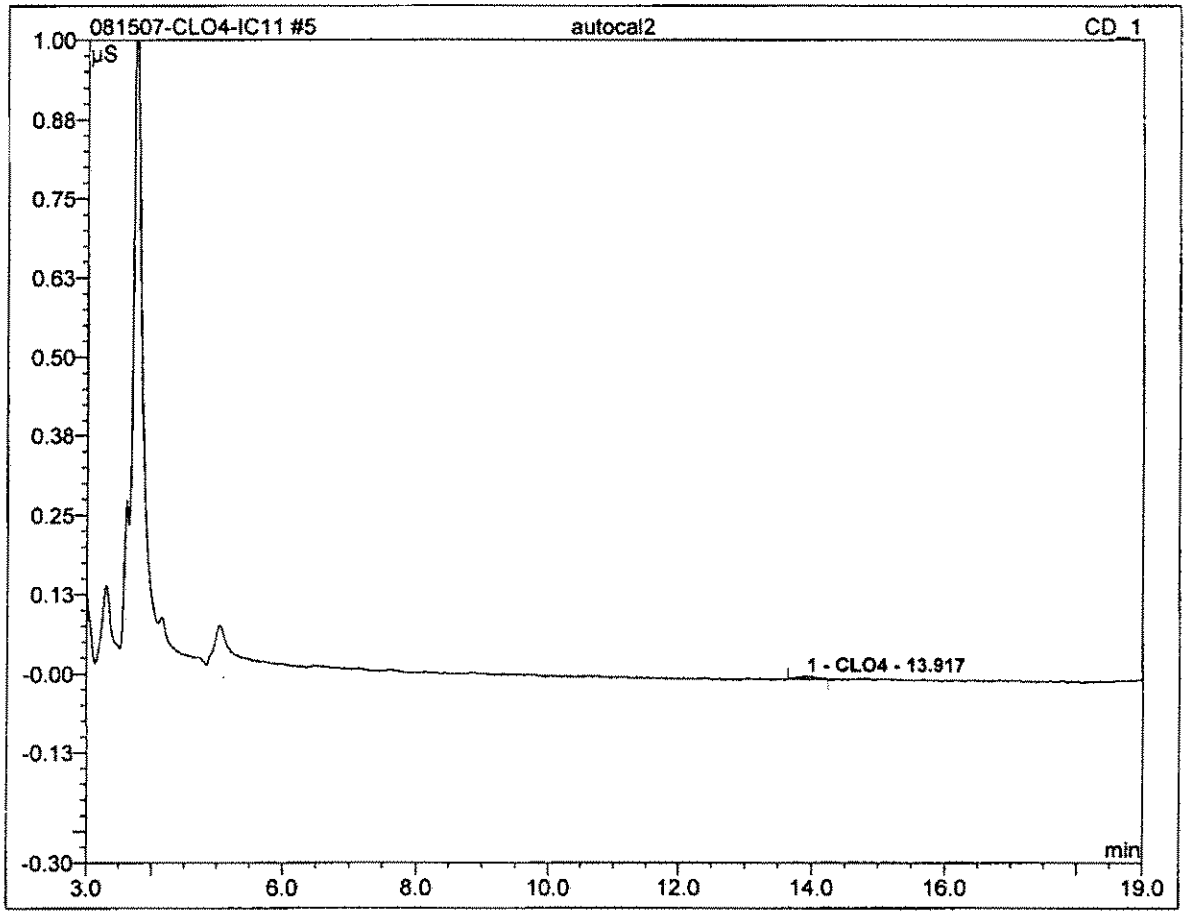


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

5 autocal2

2

Sample Name:	**autocal2**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 18:58**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

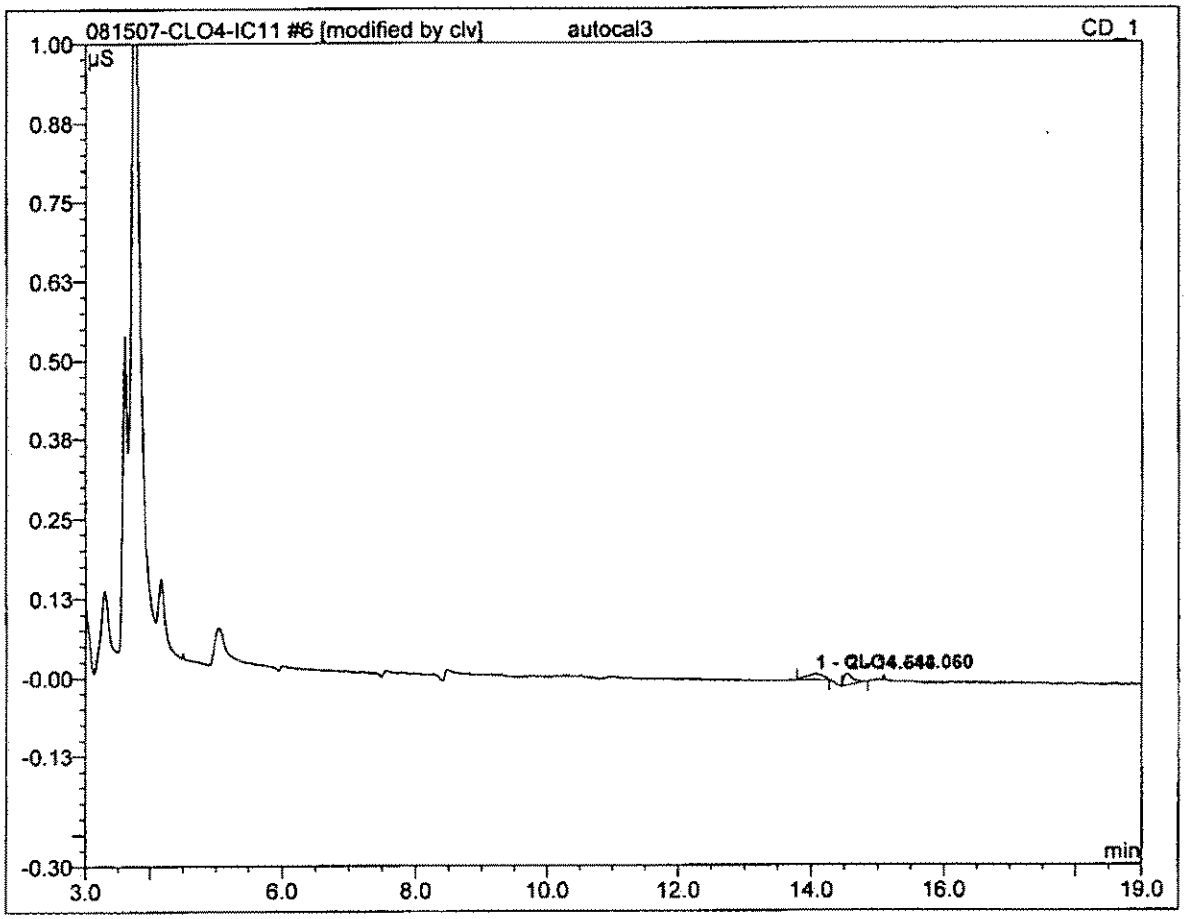


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.92	CLO4	0.005	0.002	100.00	2.446	BMB
Total:			0.005	0.002	100.00	2.446	

6 autocal3

4

Sample Name:	**autocal3**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 19:20**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

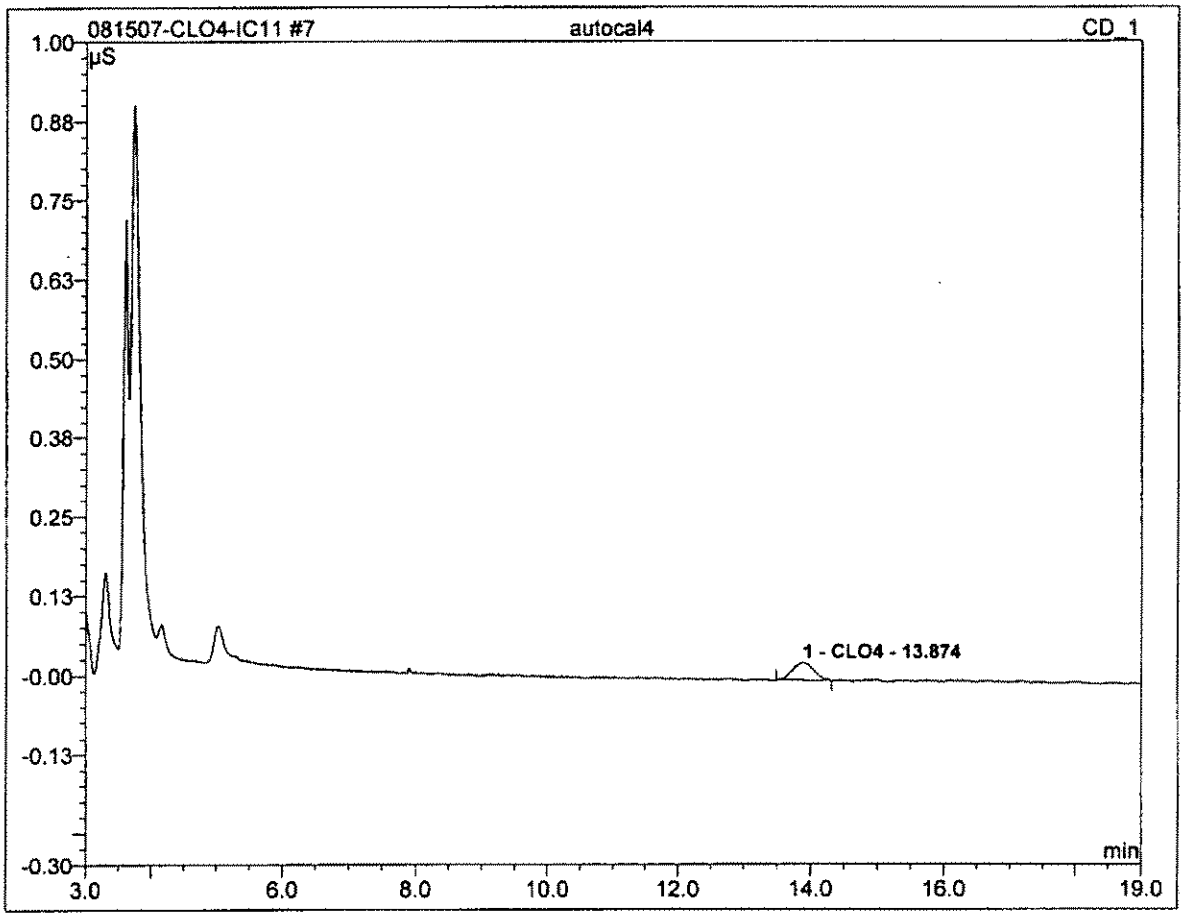


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	14.06	CLO4	0.010	0.003	47.46	3.367	BMB*
Total:			0.010	0.003	47.46	3.367	

7 autocal4

10

Sample Name:	**autocal4**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 19:42**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

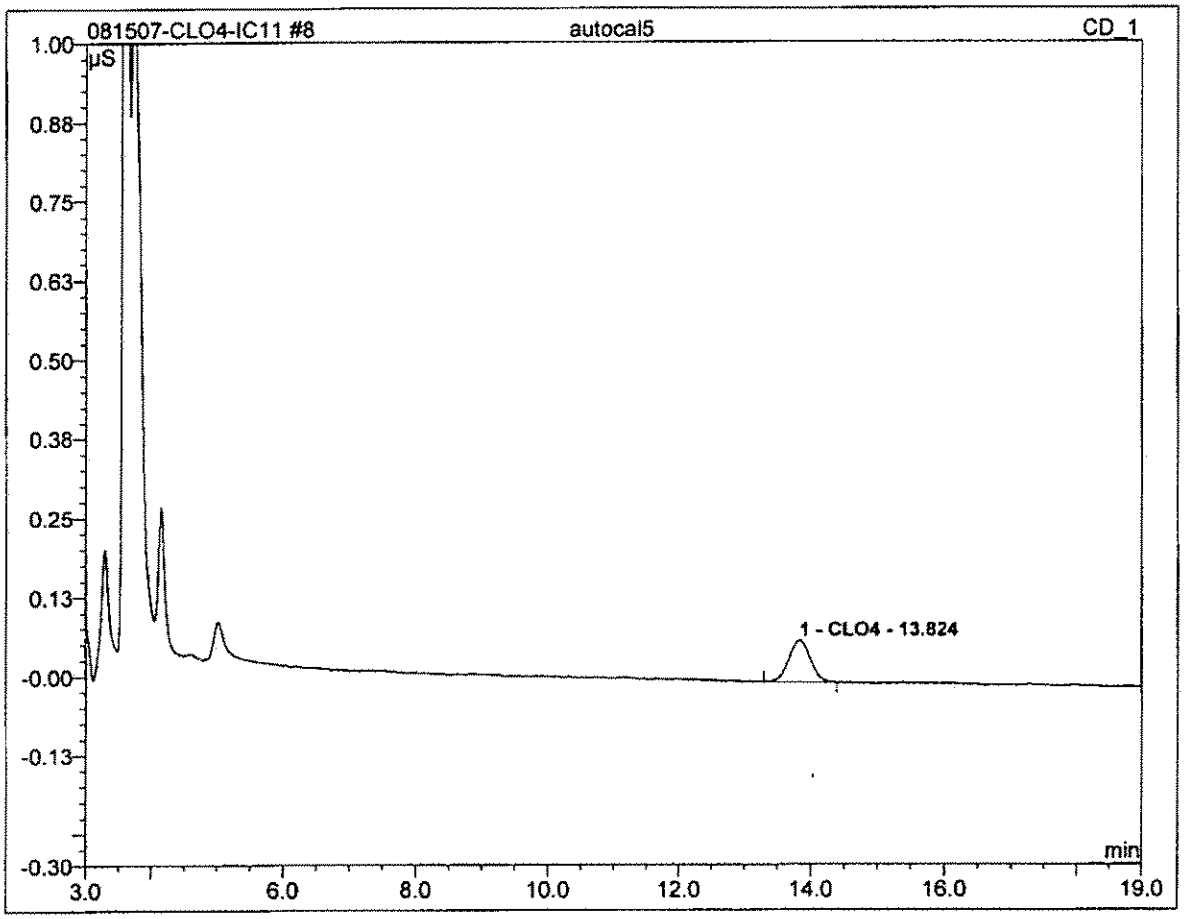


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.87	CLO4	0.027	0.010	100.00	10.452	BMB
Total:			0.027	0.010	100.00	10.452	

8 autocal5

25

Sample Name:	**autocal5**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 20:05**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

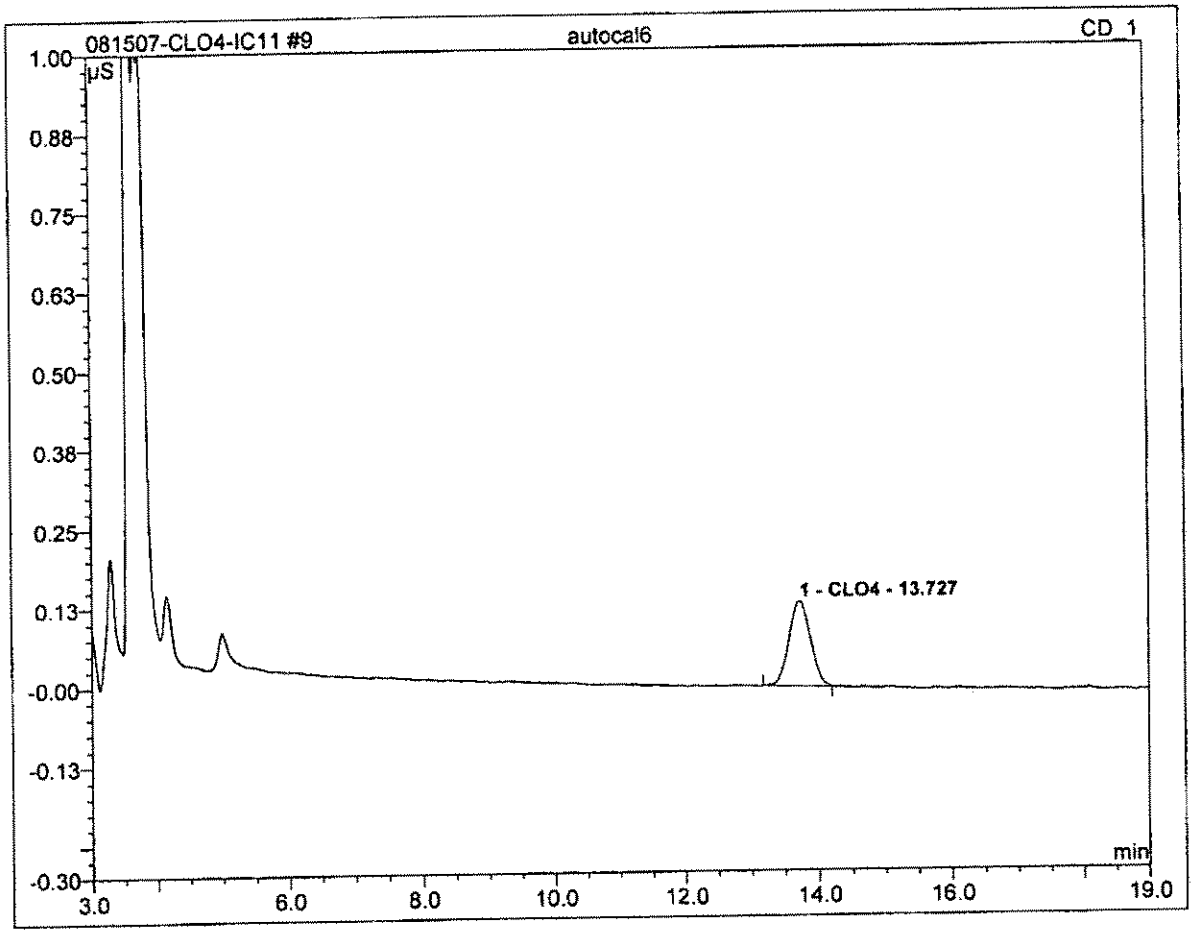


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.82	CLO4	0.065	0.024	100.00	24.485	BMB
Total:			0.065	0.024	100.00	24.485	

9 autocal6

50

Sample Name:	**autocal6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 20:27**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

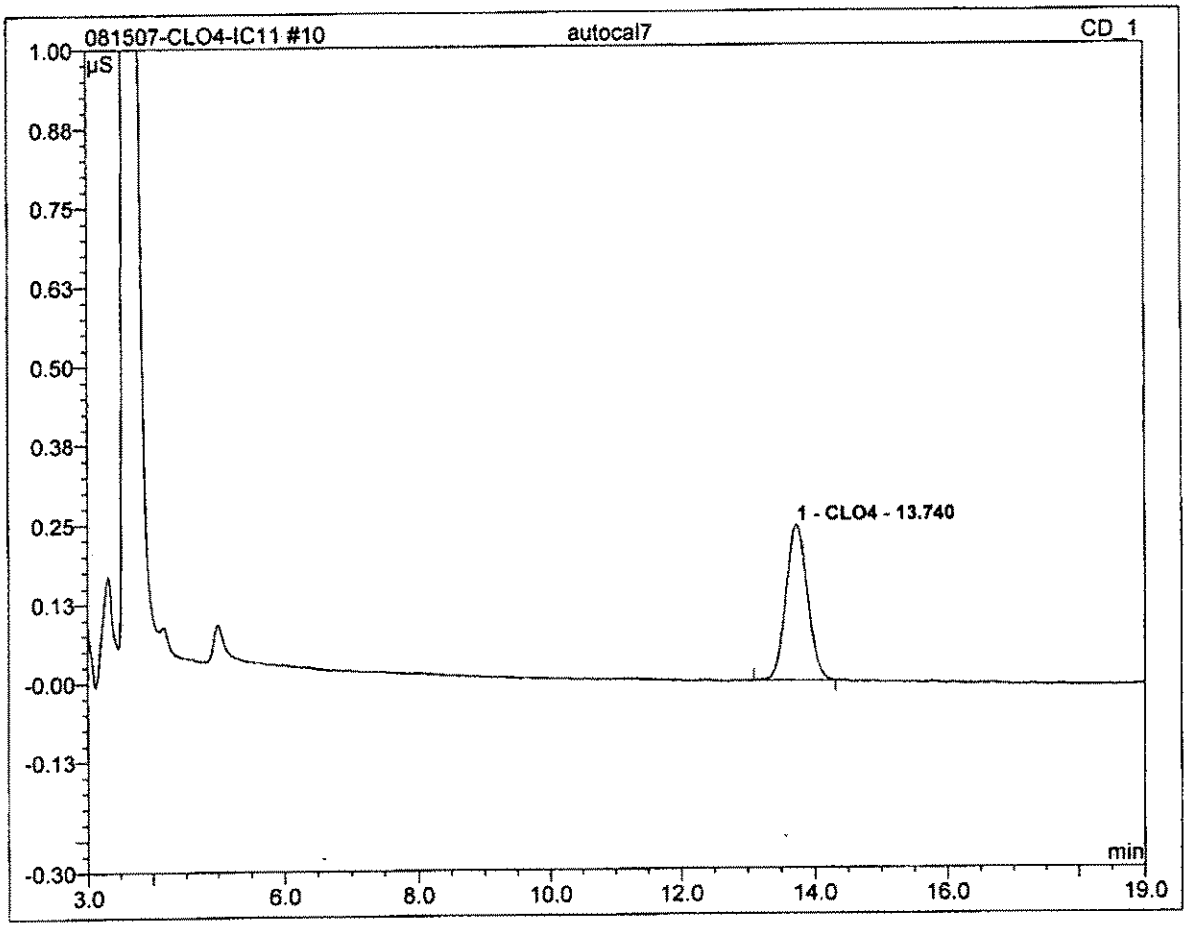


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.133	0.049	100.00	50.306	BMB
Total:			0.133	0.049	100.00	50.306	

10 autocal7

100

Sample Name:	**autocal7**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 20:50**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

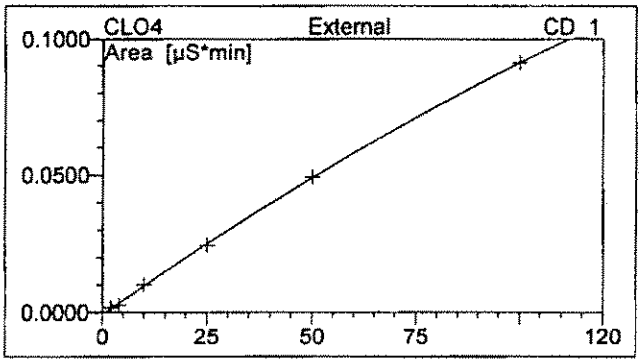


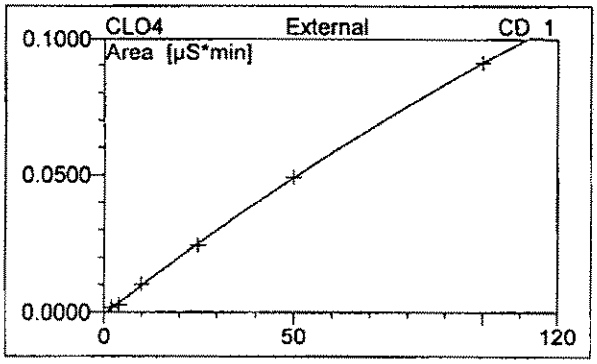
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.246	0.091	100.00	99.945	BMB
Total:			0.246	0.091	100.00	99.945	

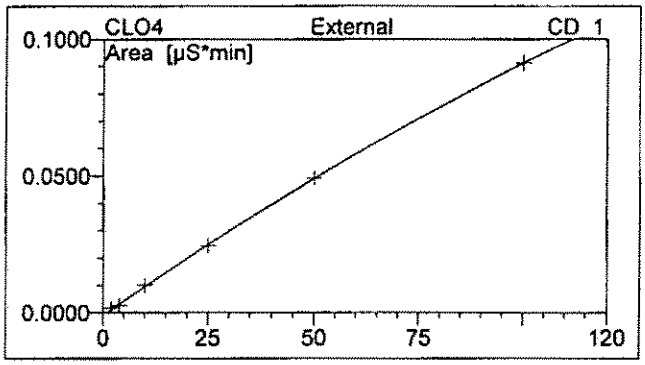
10 autocal7

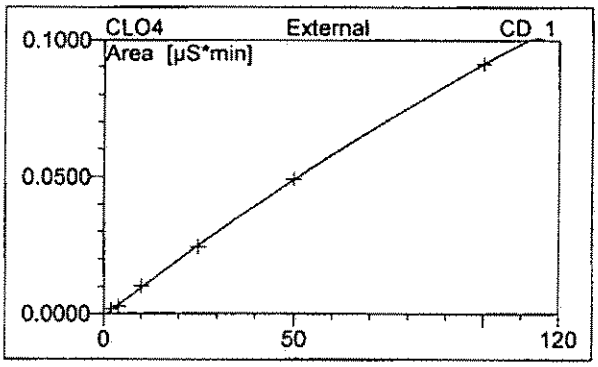
100

Sample Name:	**autocal7**	*Injection Volume:*	**20.0**
Vial Number:	**109**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Perchlorate-IC11**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC#4-CLO4-LOW**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/15/2007 20:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**20.00**	*Sample Amount:*	**1.0000**







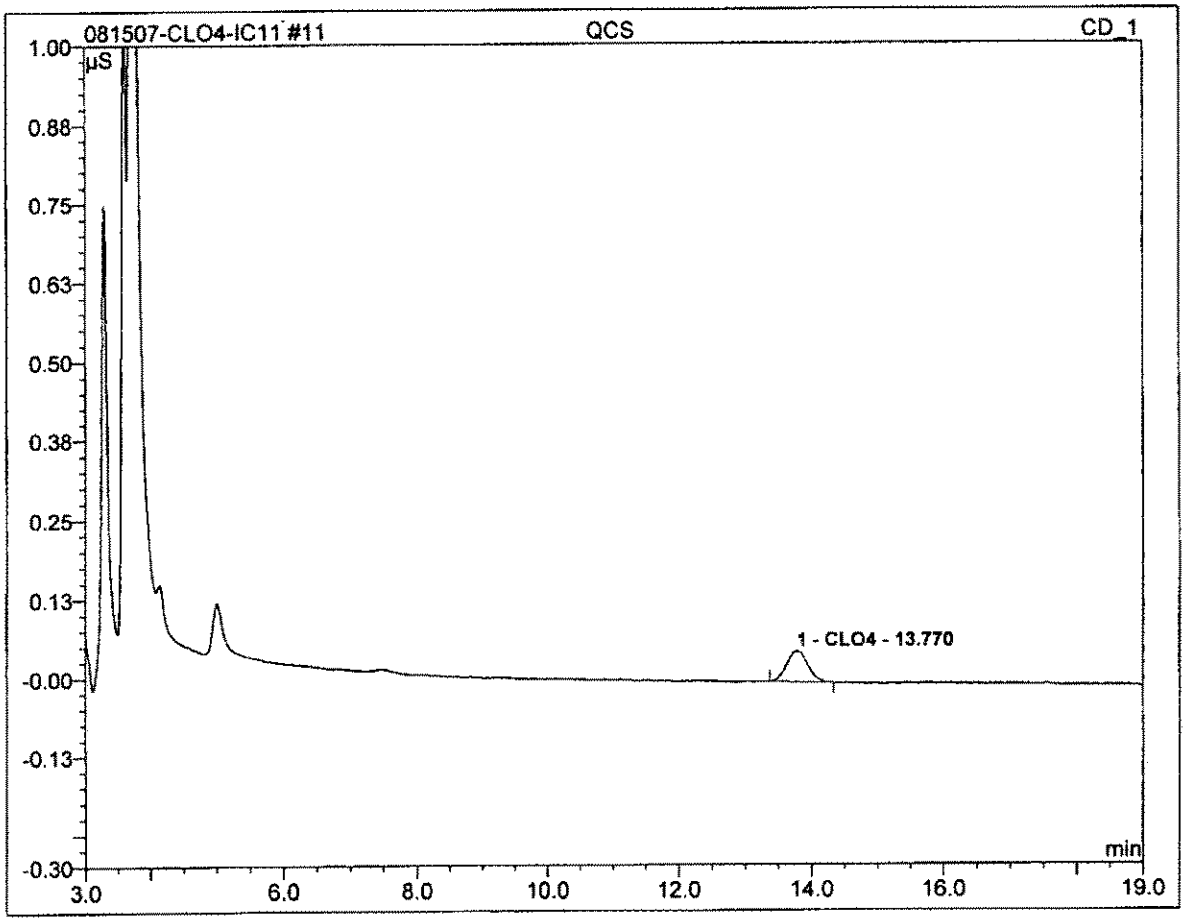


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	13.74	CLO4	QOff	6	99.8901	-0.0010	0.0011	0.0000
Average:					99.8901	-0.0010	0.0011	0.0000

11 QCS

20

Sample Name:	**QCS**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 21:12**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

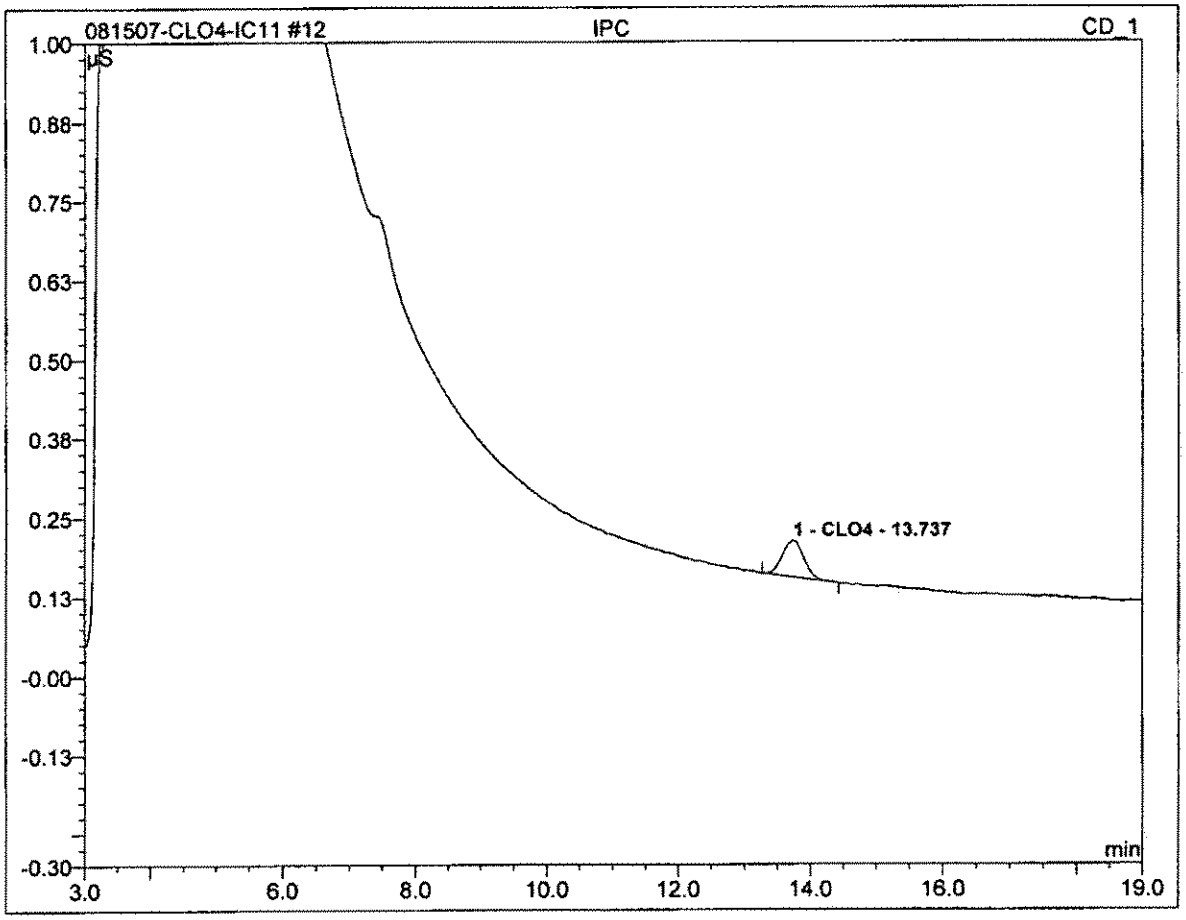


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.77	CLO4	0.049	0.018	100.00	18.012	BMB
Total:			0.049	0.018	100.00	18.012	

12 IPC

25

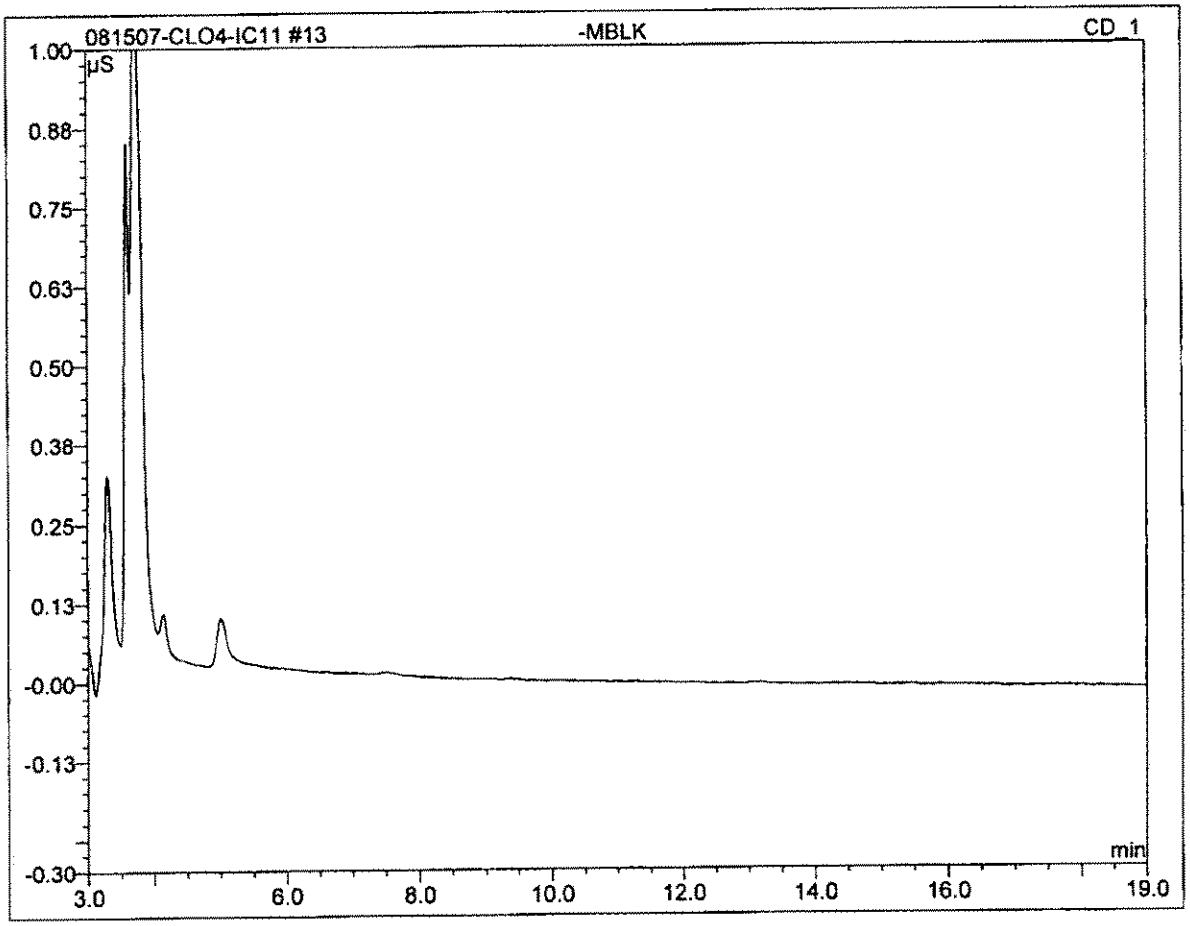
Sample Name:	**IPC**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 21:34**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.056	0.021	100.00	21.355	BMB
Total:			0.056	0.021	100.00	21.355	

13 -MBLK

Sample Name:	**-MBLK**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 21:57**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

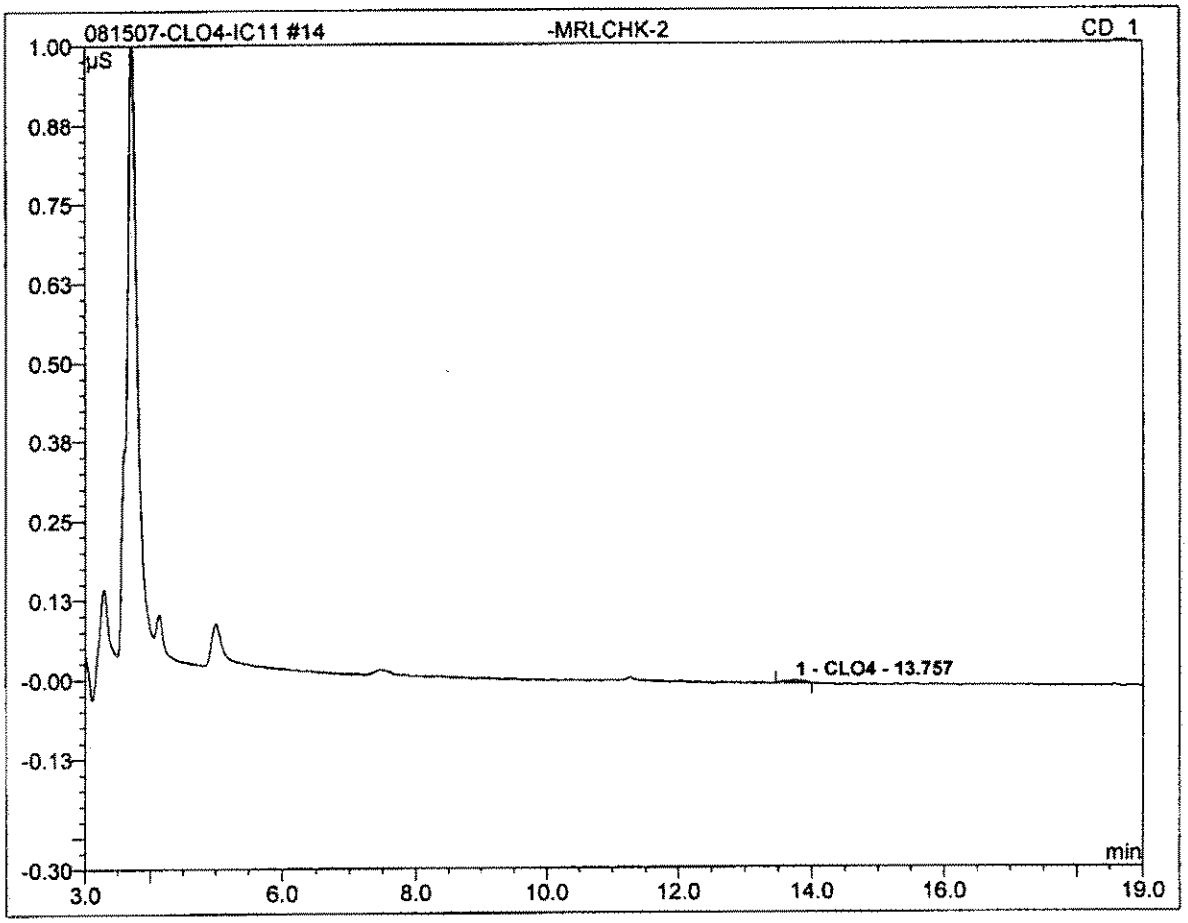


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

14 -MRLCHK-2

2

Sample Name:	**-MRLCHK-2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 22:19**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

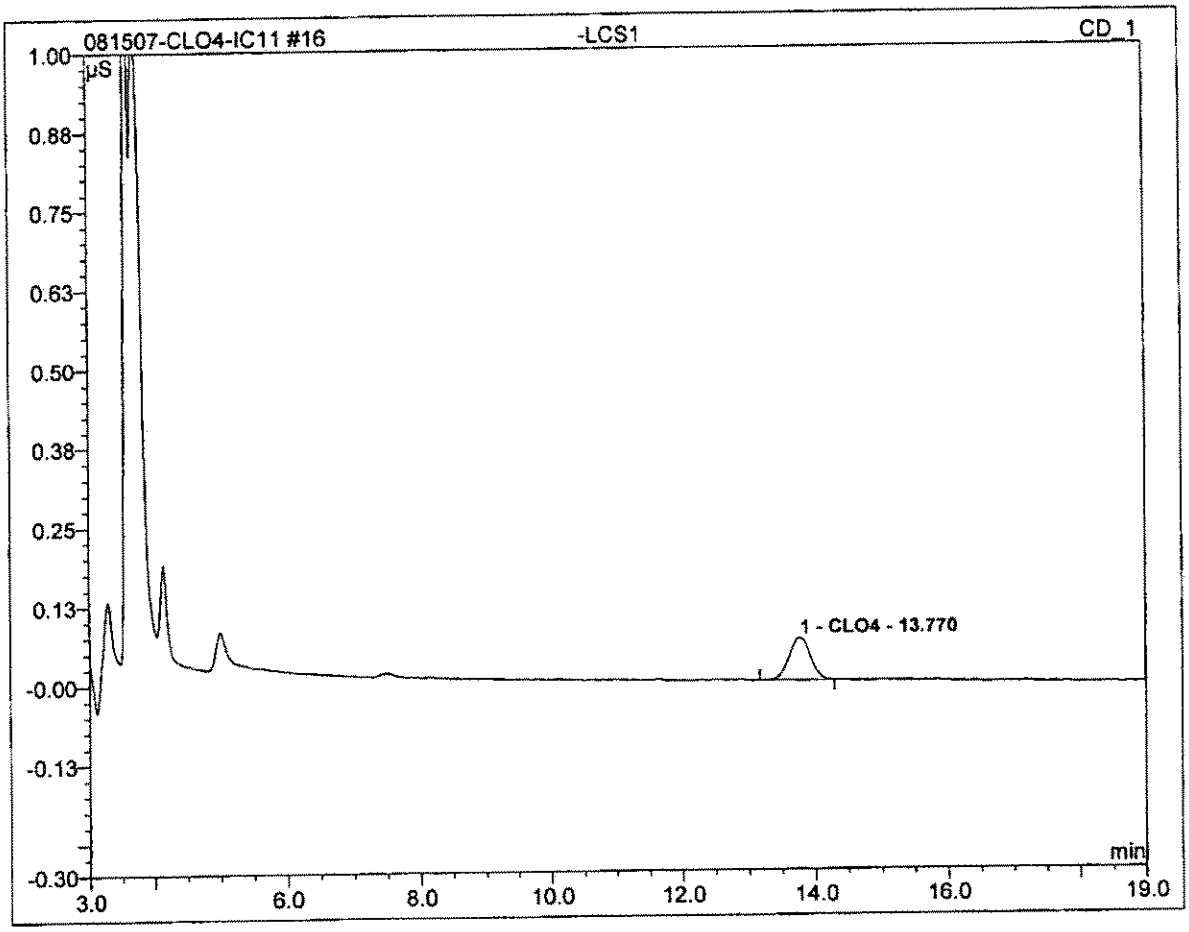


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.76	CLO4	0.004	0.001	100.00	2.167	BMB
Total:			0.004	0.001	100.00	2.167	

16 -LCS1

25

Sample Name:	**-LCS1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 23:04**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

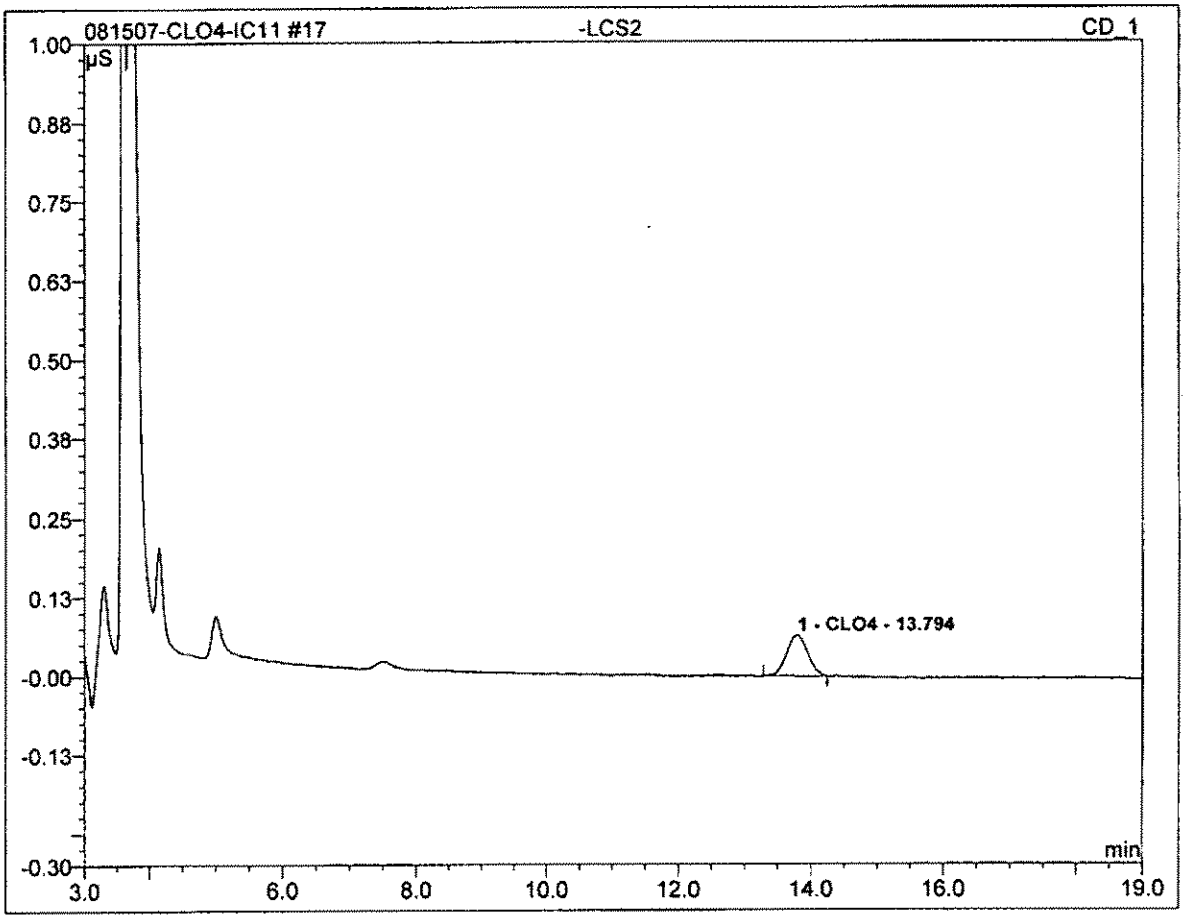


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.77	CLO4	0.066	0.025	100.00	24.870	BMB
Total:			0.066	0.025	100.00	24.870	

17 -LCS2

25

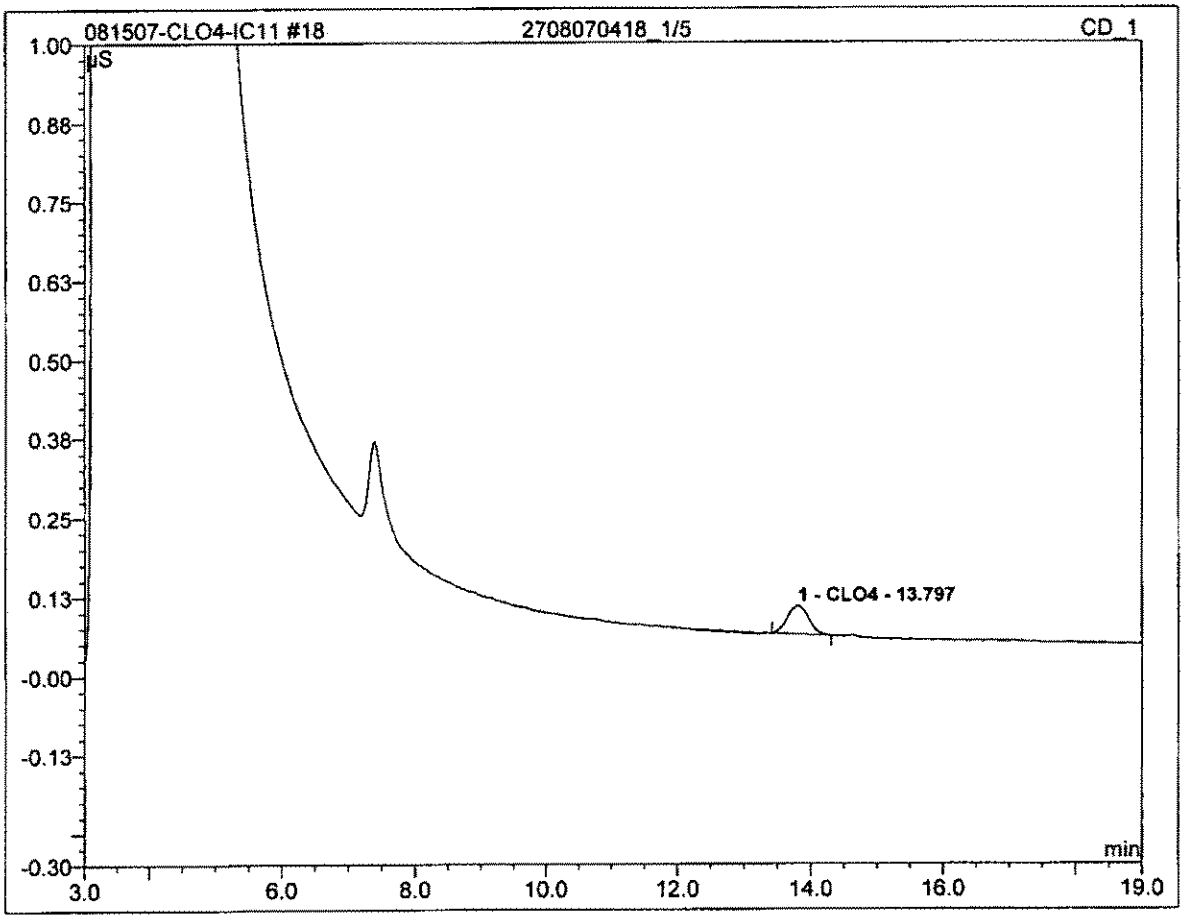
Sample Name:	**-LCS2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 23:26**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.79	CLO4	0.064	0.023	100.00	23.509	BMB
Total:			0.064	0.023	100.00	23.509	

18 2708070418_1/5

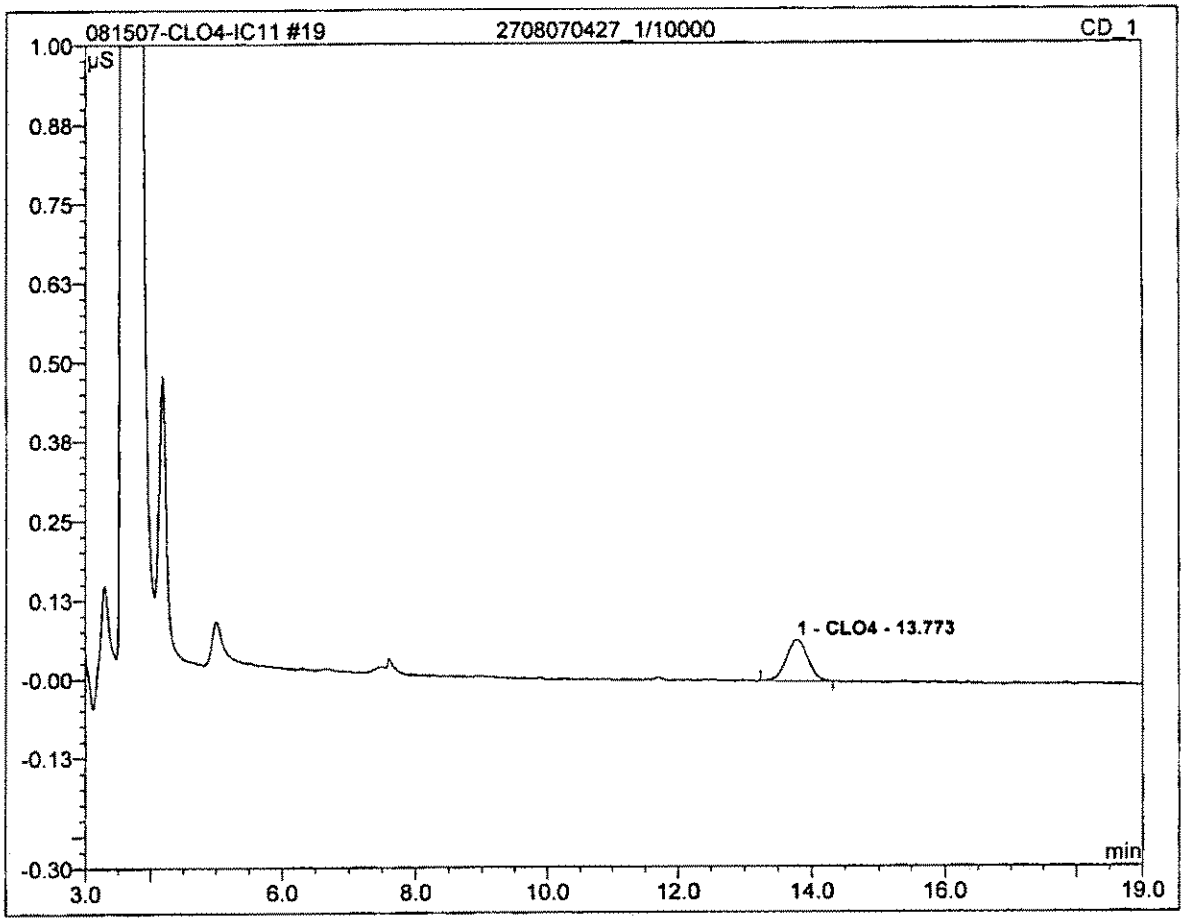
Sample Name:	**2708070418_1/5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/15/2007 23:49**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**5.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.80	CLO4	0.045	0.016	100.00	82.103	BMB
Total:			0.045	0.016	100.00	82.103	

19 2708070427_1/10000

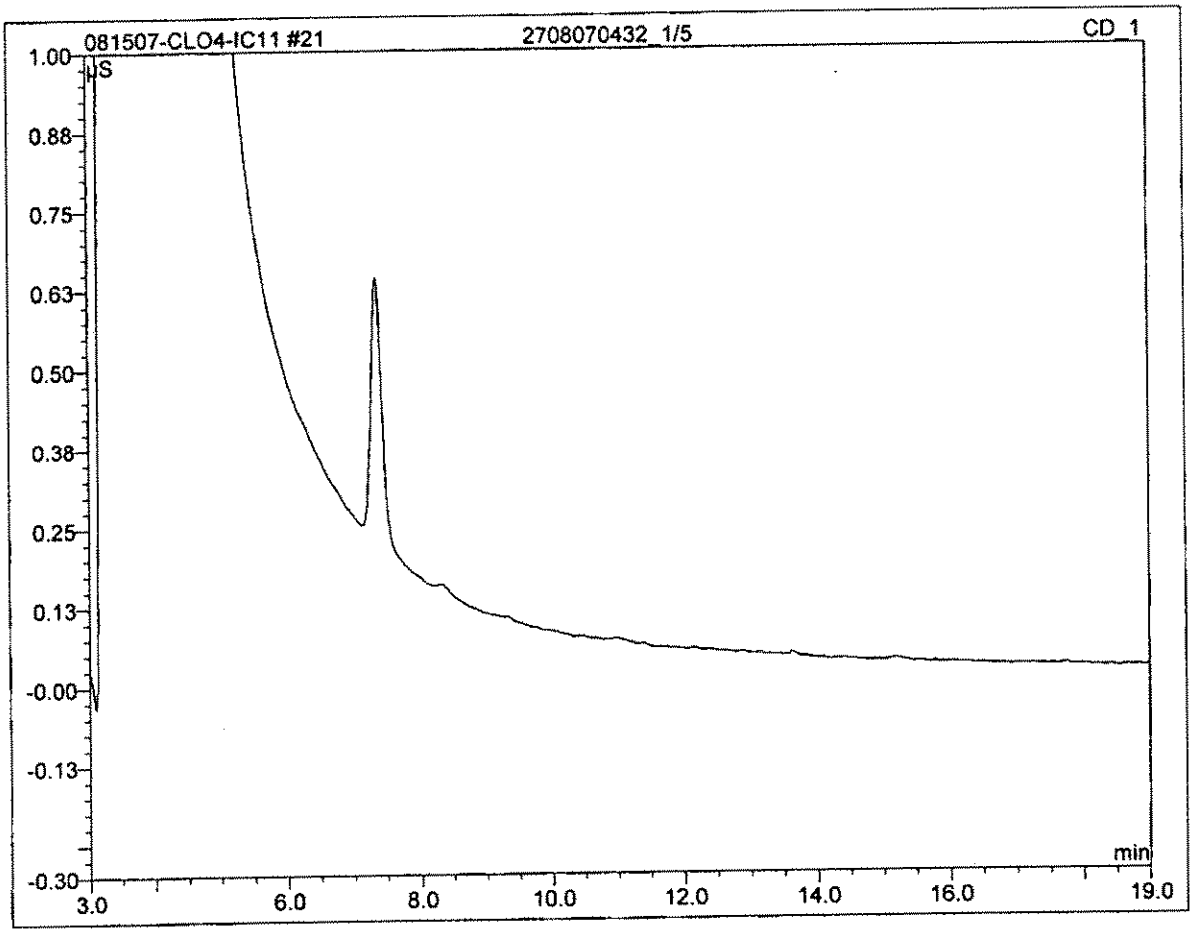
Sample Name:	**2708070427_1/10000**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 00:11**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**10000.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.77	CLO4	0.065	0.024	100.00	244792.000	BMB
Total:			0.065	0.024	100.00	244792.000	

21 2708070432_1/5

Sample Name:	**2708070432_1/5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 00:56**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**5.0000**

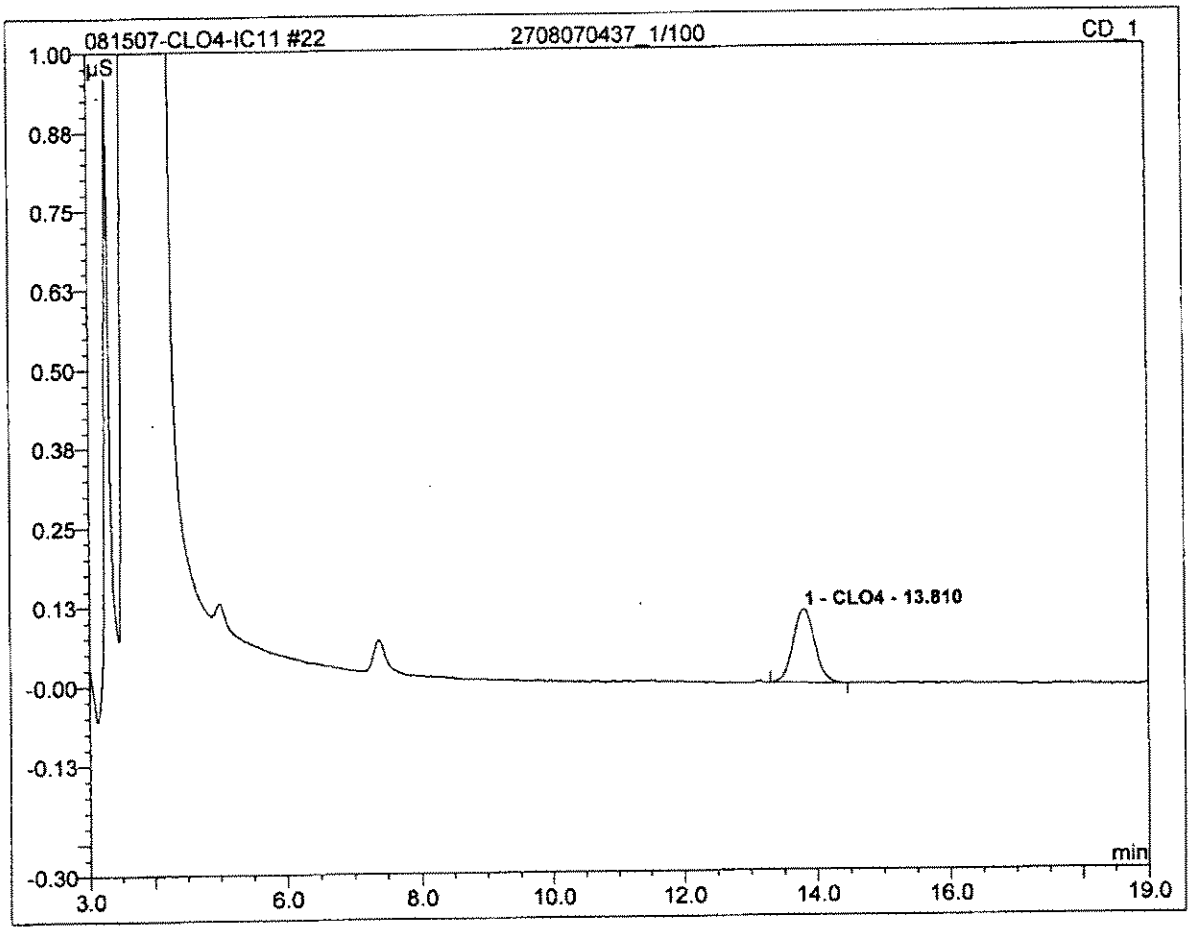


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

22 2708070437_1/100

CONFIRMED

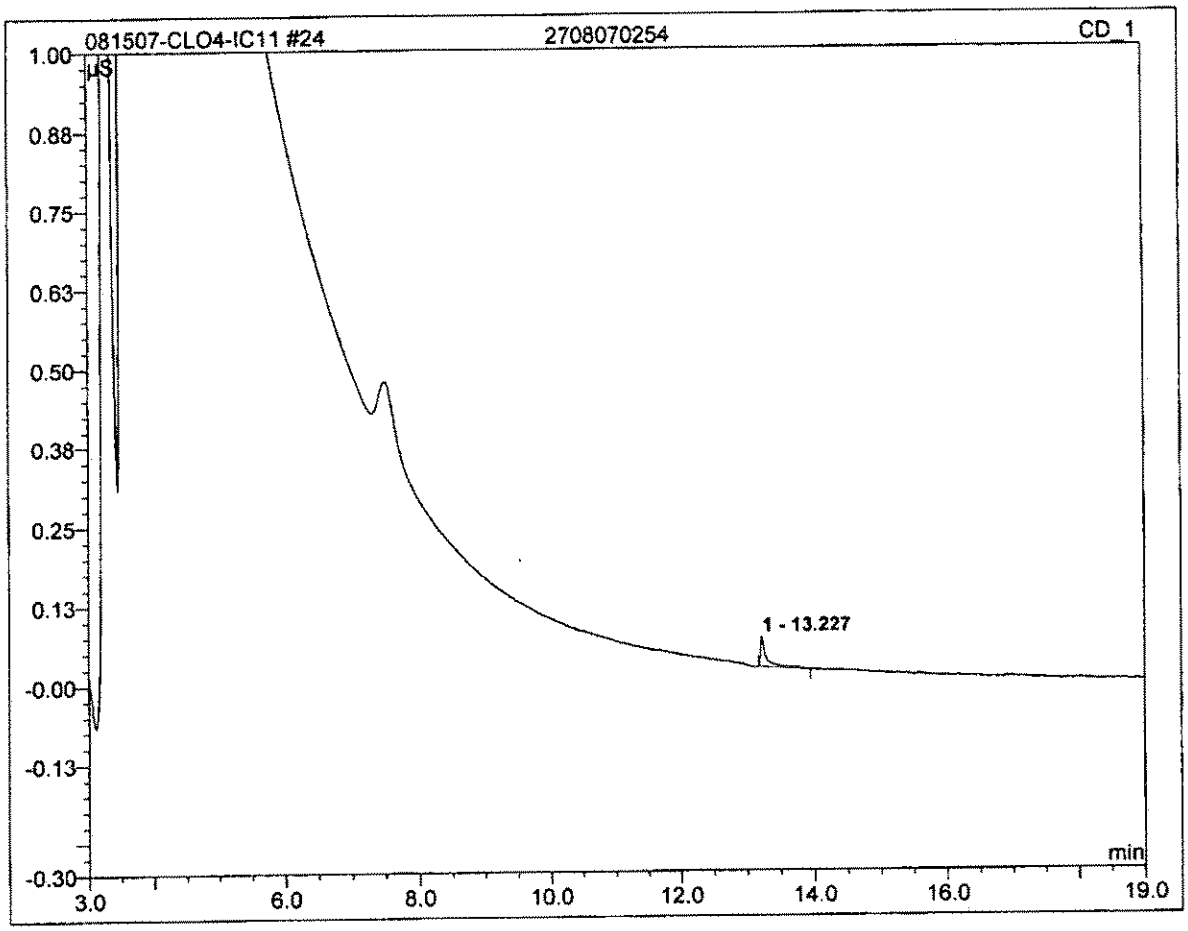
Sample Name:	**2708070437_1/100**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 01:18**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**100.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.81	CLO4	0.115	0.043	100.00	4392.327	BMB
Total:			0.115	0.043	100.00	4392.327	

24 2708070254

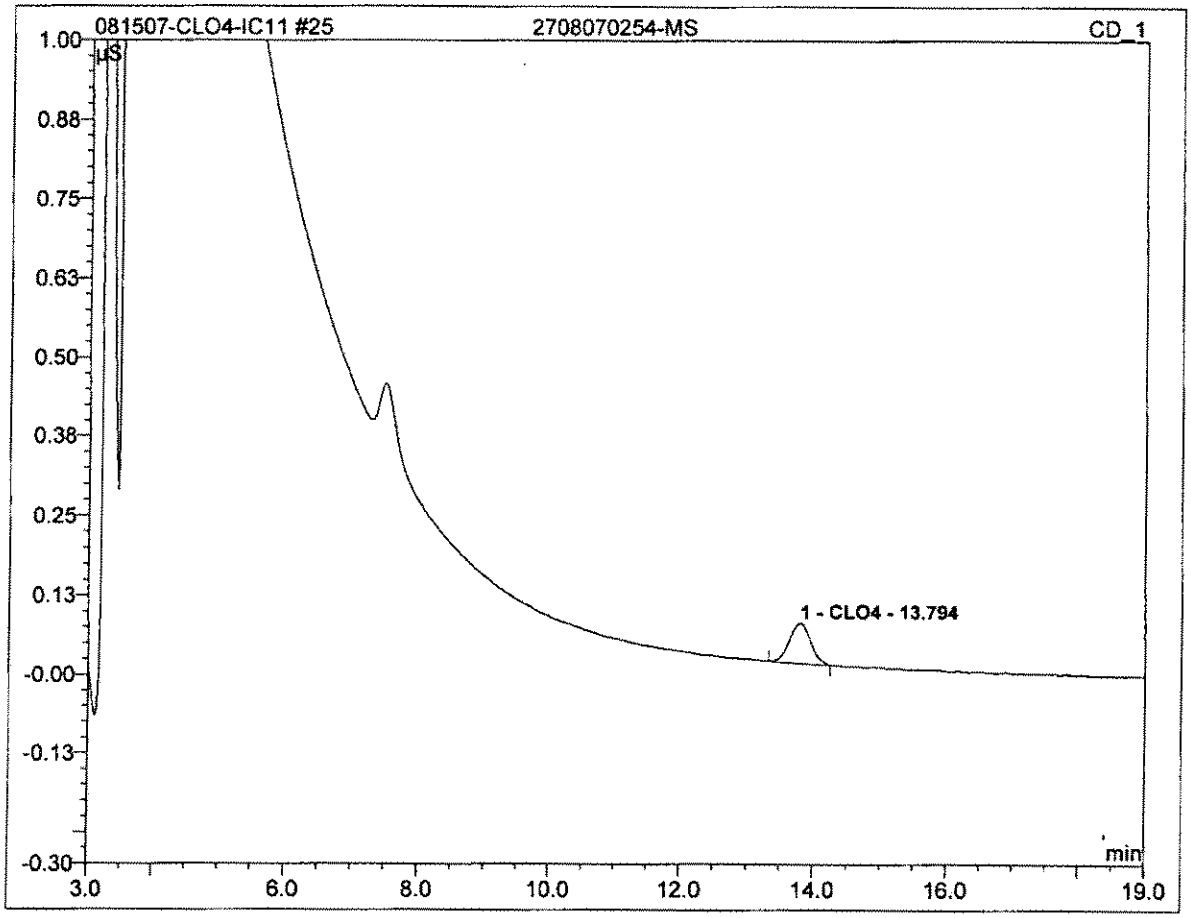
Sample Name:	**2708070254**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 02:03**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**



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

25 2708070254-MS

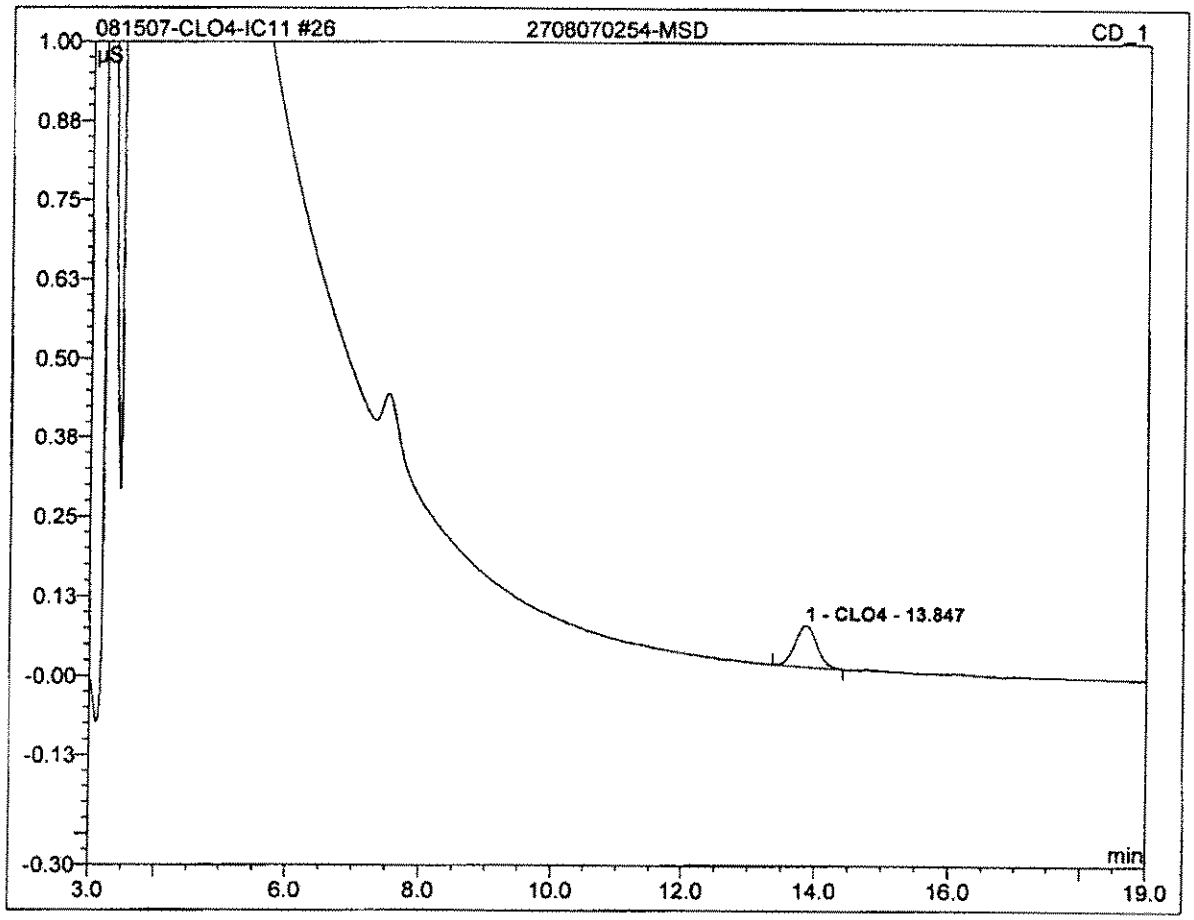
Sample Name:	**2708070254-MS**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 02:26**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.79	CLO4	0.063	0.024	100.00	23.703	BMB
Total:			0.063	0.024	100.00	23.703	

26 2708070254-MSD

Sample Name:	**2708070254-MSD**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 02:48**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

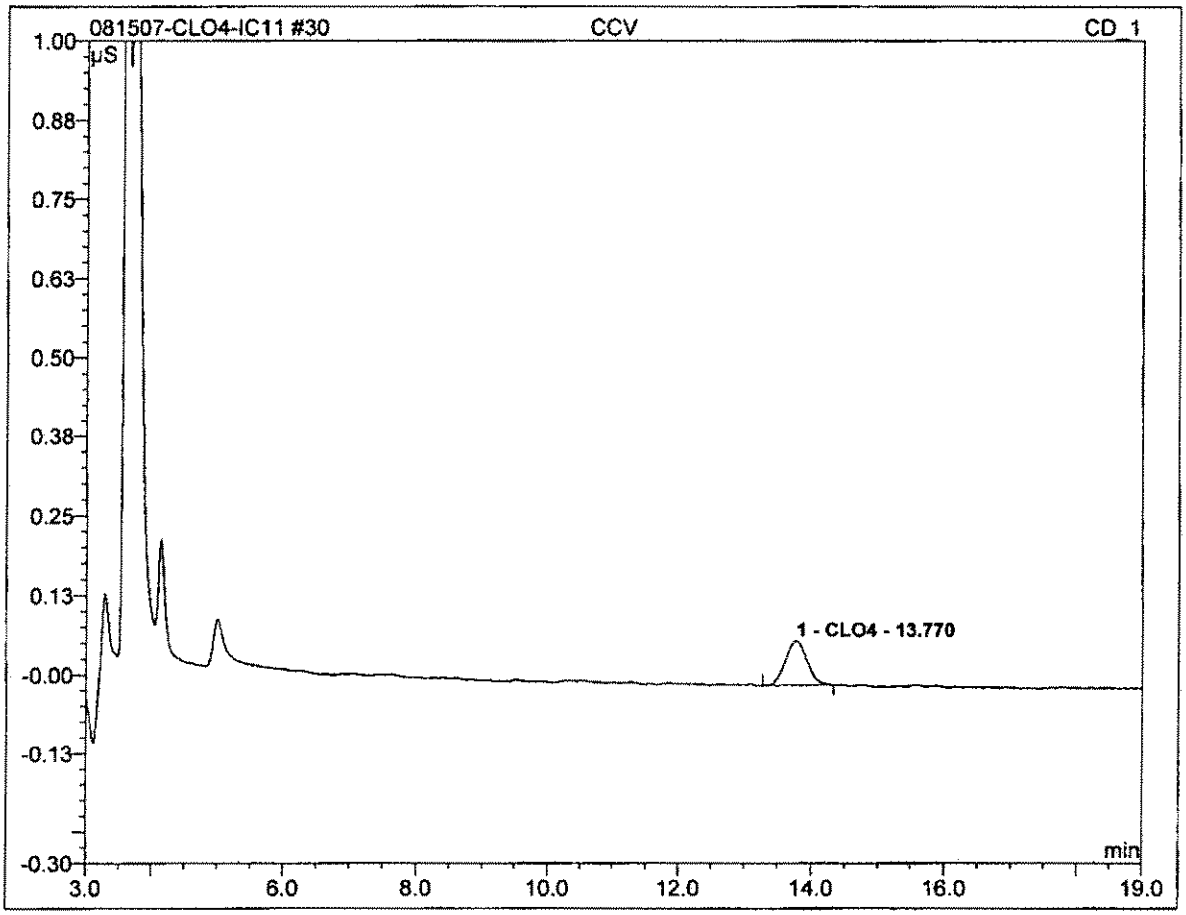


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.85	CLO4	0.065	0.025	100.00	24.652	BMB
Total:			0.065	0.025	100.00	24.652	

30 CCV

25

Sample Name:	**CCV**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 04:18**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.77	CLO4	0.069	0.026	100.00	25.972	BMB
Total:			0.069	0.026	100.00	25.972	

Perchlorate QC Checklist

rev: 27 Mar 03

Analysis Date: 081607 **Analyst:** CL

QC'd by MAE Date 8-16-07

Instrument: IC11 **Calculated MCT Level:** 3155 umhos/cm

Original IPC conductance: 3150 umhos/cm **Daily IPC conductance:** 3159 umhos/cm

Calibration including QCS

✓ QCS (20ppb) recovery is within 90% - 110% (18-22ppb) to verify that the calibration curve (minimum 5 points) still holds.

✓ Calibration curve is reanalyzed if QCS fails. Correlation Coefficient is 0.995 or better.

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

✓ MLBANK is analyzed before samples. Perchlorate, if present, is < or = half of the MRL.

✓ *L-ClO4 only*: ICCSCV at 2ppb is within 50%-150% (1-3ppb)

✓ *ClO4 only*: MRL at 4ppb is within 75%-125% (3-5ppb)

PDA/H = 4.9%

✓ IPC (25ppb) recovery is between 80%-120% (20-30ppb)

✓ IPC retention time is within 5% of the retention time of the standards

✓ IPC Conductance level is within 10% of the original

PDA = 2.5%

LCS/LCSD (25ppb)

✓ Recoveries are between 90%-110% (22.5 – 27.5ppb)

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

MS/MSD (25ppb) NOTE: For UCMR, MS/MSD concentrations alternate between 4ppb and 25ppb

✓ Recoveries are within 80%-120% (20-30ppb) for 25ppb spike N/A (3.2-4.8ppb) for 4ppb spike

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

✓ RPD between MS and MSD is within 15%.

Continuing Calibration Verification (MCV, HCV) NOTE: For UCMR ECV and MCV are required

✓ Verification Checks alternate between mid- and high-level during the analysis (low- and mid-level for UCMR)

✓ MCV (25ppb) recovery is between 85%-115% (21.25 – 28.75ppb),

✓ HCV (100ppb) recovery is between 85%-115% (85-115ppb) N/A ECV (4ppb) recovery is between 75%-125% (3.0-5.0)

Pretreat and include the following QC parameters for any batch or part thereof containing samples requiring pretreatment

— One Laboratory Reagent Blank (LRB). Perchlorate is < or = half of MRL.

N/A One pair of Laboratory Control Samples (LCS/LCSD). Recovery of perchlorate is between 85%-115%.

— One Pair of Laboratory Fortified Matrices (MS/MSD). Recoveries are between 80%-120%

Samples

✓ All samples are analyzed within 28 days of collection.

✓ All samples are analyzed within MCT Conductance limit.

QIR

N/A QIR needed for failed QC

— QIR needed for samples analyzed outside of hold time

MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

CONDUCTIVITY MW SOP REVISION 5
SM2510B

Analysis Date: 123 08/10/07
Analyst: CLM
Reviewed By: _____
LIMS Check By: _____

Was QC Criteria Met: Y N
Was QIR Needed: Y N WBR 8/10/07

Time of Analyis Start: 1230 End: _____

MRL 2umhos/cm: R# _____ exp of solution: _____
KCl Std 1412 R# 201668 exp of solution 12/07
TV = 1412 µmho/cm @ 25°C for 0.0100M
Reading: 1392
Instrument: YSI Model 3200 SN:01A0504, Year Aquired 2001 New

Run #	Sample Number	Sample ID	Client	Date Collected	Temp °C	pH	Scale (µmho/mmho)	Result Instrument	Result Reported (µmho/cm)	Comments
Blk	Blank				21	7	us		0.3602	
STD	MRL 2umhos/cm								—	1-3—±50% of TV
STD	KCl - 1000 mhos/cm								—	950-1050—±5% of TV
1	2708070418	ART 1	KM	08/06/07						
2	C422	2						10000		
3	C423	3						15000		
4	C424	4						10000		
5	C425	6						8800		
6	C426	7						10000		
7	C427	8						14500		
8	C428	PC99R2/R3						14600		
9	C429	115R						5900		
10	C430	116R2						6200		
DUP	↓	↓						6200		
11	C431	SEEP SURFACE						6200		RPD < 5%
12	C432	ST1						5700		
13	C433	PC117						9900		
14	C434	118						5300		
15	C437	119						6400		
16	C439	120						5600		
17	C440	121						4600		
18	C441	133						4300		
19	C442	ART 9						5100		
20	C591	EFF						10000		
DUP	↓	↓						9520		
STD	KCl - 10 mhos/cm							9520		RPD < 5%
									—	8-12—RPD < 20% of TV

% RPD = |S1-S2| * 100
(S1+S2)/2

S1 = reading of 1st sample
S2 = reading of 2nd sample

Sample No.	Sample Name	Dil.Fac.	Comment	Time	Amount CLO4 CD_1	
1	autocal1	1.0	0	08.16.07 10:33	n.a.	
2	autocal2	1.0	2	08.16.07 10:56	2.5027	
3	autocal3	1.0	4	08.16.07 11:18	4.0456	
4	autocal4	1.0	10	08.16.07 11:40	9.8131	
5	autocal5	1.0	25	08.16.07 12:03	23.9166	
6	autocal6	1.0	50	08.16.07 12:25	50.9025	
7	autocal7	1.0	100	08.16.07 12:48	99.8213	
8	QCS	1.0	20	08.16.07 13:10	19.3919	97.0%
9	IPC DNR	1.0	25	08.16.07 13:32	19.7908	DNR
10	-MBLK	1.0		08.16.07 13:55	n.a.	ND≤½MRL
11	IPC	1.0	RR	08.16.07 14:17	23.5418	94.2%
12	-MRLCHK-2	1.0	2	08.16.07 14:40	2.3534	118%
13	-MRLCHK-4	1.0	4	08.16.07 15:02	√4.2151	105%
14	-LCS1	1.0	25	08.16.07 15:24	√24.9306	99.7%
15	-LCS2	1.0	25	08.16.07 15:47	√24.8690	99.5%
16	2708090352	1.0		08.16.07 16:09	√6.1917	
17	2708090353	1.0		08.16.07 16:32	√6.8034	
18	2708090354	1.0		08.16.07 16:54	√4.1782	
19	2708090355	1.0		08.16.07 17:16	√ n.a.	
20	2708090549	1.0		08.16.07 17:39	√36.6480	
21	2708090549-MS	1.0	25	08.16.07 18:01	√61.1010	24.9/97.8%
22	2708090549-MSD	1.0	25	08.16.07 18:24	√63.2449	26.6/106%
23	2708090550	1.0		08.16.07 18:46	√46.0572	
24	2708090552	1.0		08.16.07 19:08	√45.5613	
25	2708090554	1.0		08.16.07 19:31	√62.6765	
26	2708100342_1/50000	50000.0		08.16.07 19:53	√2065639.6005	
27	2708100343_1/50000	50000.0		08.16.07 20:16	√1215715.1697	
28	CCV	1.0		08.16.07 20:38	23.6557	94.6%
29	2708100344_1/50000	50000.0		08.16.07 21:00	√885767.3574	
30	2708100363_1/2	2.0		08.16.07 21:23	√ n.a.	
31	2708100364_1/2	2.0		08.16.07 21:45	√n.a.	
32	2708100365_1/2	2.0		08.16.07 22:08	√n.a.	
33	2708100367_1/2	2.0		08.16.07 22:30	√n.a.	
34	2708100368_1/2	2.0		08.16.07 22:52	√n.a.	
35	2708100369_1/2	2.0		08.16.07 23:15	√n.a.	
36	2708100370_1/2	2.0		08.16.07 23:37	√n.a.	
37	2708100371_1/2	2.0		08.16.07 23:59	√n.a.	
38	2708100375_1/2	2.0		08.17.07 00:22	√n.a.	
39	HCV	1.0	100	08.17.07 00:44	104.1333	104%
40	QCS	1.0	20	08.17.07 01:07	20.5924	103%
41	IPC	1.0	25	08.17.07 01:29	20.3765	81.5%
42	-MBLK	1.0		08.17.07 01:51	n.a.	ND≤½MRL
43	-MRLCHK	1.0	2	08.17.07 02:14	2.5715	129%
44	-MRLCHK	1.0	4	08.17.07 02:36	√4.3978	110%

45	-LCS	1.0	25	08.17.07 02:59	√24.3765	97.5%
46	-LCSD	1.0	25	08.17.07 03:21	√25.8865	104%
47	2708070431_1/5	5.0	RR	08.17.07 03:43	✓ n.a.	
48	2708100378_1/2 DNR	2.0		08.17.07 04:06	– 12.5746	– DNR
49	2708100379_1/2	2.0		08.17.07 04:28	√5.5219	
50	2708100380_1/2	2.0		08.17.07 04:51	√3.6977	
51	2708100381_1/2	2.0		08.17.07 05:13	✓ 3.5379	
52	2708100382_1/2	2.0		08.17.07 05:35	✓ n.a.	
53	2708100422_1/2	2.0		08.17.07 05:58	√3.5033	
54	2708130155_1/50000	50000.0		08.17.07 06:20	√4483919.0381	
55	2708130319_1/2	2.0		08.17.07 06:43	✓ n.a.	
56	2708130320_1/2	2.0		08.17.07 07:05	√5.1630	
57	2708130320-MS	2.0	25	08.17.07 07:27	√51.8779	46.7/2=23
58	2708130320-MSD	2.0	25	08.17.07 07:50	√52.3822	23.6/94.4
59	CCV	1.0	25	08.17.07 08:12	23.4656	93.9%
60	2708130321_1/2	2.0		08.17.07 08:35	√2.8291	
61	2708130322_1/2	2.0		08.17.07 08:57	✓ n.a.	
62	2708130323_1/2	2.0		08.17.07 09:19	✓ n.a.	
63	2708140265_1/5	5.0		08.17.07 09:42	√78.2418	
64	2708140267_1/2500	2500.0		08.17.07 10:04	√69359.3279	
65	2708140268_1/10000	10000.0		08.17.07 10:27	√284101.2138	
66	2708140269_1/10000	10000.0		08.17.07 10:49	√262402.1705	
67	2708140270_1/5000	5000.0		08.17.07 11:11	√74626.5716	
68	2708140271_1/5000	5000.0		08.17.07 11:34	√120069.6432	
69	2708140272_1/10000	10000.0		08.17.07 11:56	√217519.6230	
70	HCV	1.0	100	08.17.07 12:19	95.2596	95.3%

VB: NM 9/24/07

Sequence: 081607-CLO4-IC11
Operator: clv

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 70

Created: 8/14/2007 6:27:03 PM by clv
Last Update: 8/17/2007 11:08:04 AM by clv

No.	Name	Sample ID	Dil. Factor	Type	Comment	Status	Program
1	autocal1		1.0000	Standard	0	Finished	Perchlorate-IC11
2	autocal2	R201449 EXP 07/28/09	1.0000	Standard	2	Finished	Perchlorate-IC11
3	autocal3		1.0000	Standard	4	Finished	Perchlorate-IC11
4	autocal4		1.0000	Standard	10	Finished	Perchlorate-IC11
5	autocal5		1.0000	Standard	25	Finished	Perchlorate-IC11
6	autocal6		1.0000	Standard	50	Finished	Perchlorate-IC11
7	autocal7		1.0000	Standard	100	Finished	Perchlorate-IC11
8	QCS	R201449 EXP 07/28/09	1.0000	Unknown	20	Finished	Perchlorate-IC11
9	IPC DNR	EC=3155	1.0000	Unknown	25	Finished	Perchlorate-IC11
10	-MBLK		1.0000	Unknown		Finished	Perchlorate-IC11
11	IPC	EC=3155	1.0000	Unknown	RR	Finished	Perchlorate-IC11
12	-MRLCHK-2	2	1.0000	Unknown	2	Finished	Perchlorate-IC11
13	-MRLCHK-4	4	1.0000	Unknown	4	Finished	Perchlorate-IC11
14	-LCS1	25	1.0000	Unknown	25	Finished	Perchlorate-IC11
15	-LCS2	25	1.0000	Unknown	25	Finished	Perchlorate-IC11
16	2708090352	CALWATER 344	1.0000	Unknown		Finished	Perchlorate-IC11
17	2708090353	CALWATER 345	1.0000	Unknown		Finished	Perchlorate-IC11
18	2708090354	CALWATER 346	1.0000	Unknown		Finished	Perchlorate-IC11
19	2708090355	CALWATER 347	1.0000	Unknown		Finished	Perchlorate-IC11
20	2708090549	KM LVW UPGRADIENT	1.0000	Unknown		Finished	Perchlorate-IC11
21	2708090549-MS	25	1.0000	Unknown	25	Finished	Perchlorate-IC11
22	2708090549-MSD	25	1.0000	Unknown	25	Finished	Perchlorate-IC11
23	2708090550	KM LVW 6.05	1.0000	Unknown		Finished	Perchlorate-IC11
24	2708090552	KM LVW 5.5	1.0000	Unknown		Finished	Perchlorate-IC11
25	2708090554	KM LVW 0.55	1.0000	Unknown		Finished	Perchlorate-IC11
26	2708100342_1/50000	KM GWTP DISCHARGE	50000.0000	Unknown		Finished	Perchlorate-IC11
27	2708100343_1/50000	KM GWTP WEST	50000.0000	Unknown		Finished	Perchlorate-IC11
28	CCV		1.0000	Unknown		Finished	Perchlorate-IC11
29	2708100344_1/50000	KM GWTP EAST	50000.0000	Unknown		Finished	Perchlorate-IC11
30	2708100363_1/2	IEUA 1208388	2.0000	Unknown		Finished	Perchlorate-IC11
31	2708100364_1/2	IEUA 1208412	2.0000	Unknown		Finished	Perchlorate-IC11
32	2708100365_1/2	IEUA 1208306	2.0000	Unknown		Finished	Perchlorate-IC11
33	2708100367_1/2	IEUA 1207117	2.0000	Unknown		Finished	Perchlorate-IC11
34	2708100368_1/2	IEUA 1207118	2.0000	Unknown		Finished	Perchlorate-IC11
35	2708100369_1/2	IEUA 1207119	2.0000	Unknown		Finished	Perchlorate-IC11
36	2708100370_1/2	IEUA 1207120	2.0000	Unknown		Finished	Perchlorate-IC11
37	2708100371_1/2	IEUA 1207121	2.0000	Unknown		Finished	Perchlorate-IC11
38	2708100375_1/2	IEUA 1201076	2.0000	Unknown		Finished	Perchlorate-IC11
39	HCV	100	1.0000	Unknown	100	Finished	Perchlorate-IC11
40	QCS	20	1.0000	Unknown	20	Finished	Perchlorate-IC11
41	IPC	EC=3155	1.0000	Unknown	25	Finished	Perchlorate-IC11
42	-MBLK		1.0000	Unknown		Finished	Perchlorate-IC11

Sequence: 081607-CLO4-IC11
Operator: clv

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 70

Created: 8/14/2007 6:27:03 PM by clv
Last Update: 8/17/2007 11:08:04 AM by clv

No.	Name	Method	Inj. Date/Time	*Analyst
1	autocal1	IC#4-CLO4-LOW	8/16/2007 10:33:41 AM	clv
2	autocal2	IC#4-CLO4-LOW	8/16/2007 10:56:05 AM	clv
3	autocal3	IC#4-CLO4-LOW	8/16/2007 11:18:29 AM	clv
4	autocal4	IC#4-CLO4-LOW	8/16/2007 11:40:52 AM	clv
5	autocal5	IC#4-CLO4-LOW	8/16/2007 12:03:16 PM	clv
6	autocal6	IC#4-CLO4-LOW	8/16/2007 12:25:41 PM	clv
7	autocal7	IC#4-CLO4-LOW	8/16/2007 12:48:05 PM	clv
8	QCS	IC#4-CLO4-LOW	8/16/2007 1:10:29 PM	clv
9	IPC DNR	IC#4-CLO4-LOW	8/16/2007 1:32:53 PM	clv
10	-MBLK	IC#4-CLO4-LOW	8/16/2007 1:55:16 PM	clv
11	IPC	IC#4-CLO4-LOW	8/16/2007 2:17:41 PM	clv
12	-MRLCHK-2	IC#4-CLO4-LOW	8/16/2007 2:40:03 PM	clv
13	-MRLCHK-4	IC#4-CLO4-LOW	8/16/2007 3:02:27 PM	clv
14	-LCS1	IC#4-CLO4-LOW	8/16/2007 3:24:50 PM	clv
15	-LCS2	IC#4-CLO4-LOW	8/16/2007 3:47:14 PM	clv
16	2708090352	IC#4-CLO4-LOW	8/16/2007 4:09:38 PM	clv
17	2708090353	IC#4-CLO4-LOW	8/16/2007 4:32:02 PM	clv
18	2708090354	IC#4-CLO4-LOW	8/16/2007 4:54:26 PM	clv
19	2708090355	IC#4-CLO4-LOW	8/16/2007 5:16:50 PM	clv
20	2708090549	IC#4-CLO4-LOW	8/16/2007 5:39:14 PM	clv
21	2708090549-MS	IC#4-CLO4-LOW	8/16/2007 6:01:38 PM	clv
22	2708090549-MSD	IC#4-CLO4-LOW	8/16/2007 6:24:02 PM	clv
23	2708090550	IC#4-CLO4-LOW	8/16/2007 6:46:26 PM	clv
24	2708090552	IC#4-CLO4-LOW	8/16/2007 7:08:49 PM	clv
25	2708090554	IC#4-CLO4-LOW	8/16/2007 7:31:13 PM	clv
26	2708100342_1/50000	IC#4-CLO4-LOW	8/16/2007 7:53:37 PM	clv
27	2708100343_1/50000	IC#4-CLO4-LOW	8/16/2007 8:16:02 PM	clv
28	CCV	IC#4-CLO4-LOW	8/16/2007 8:38:25 PM	clv
29	2708100344_1/50000	IC#4-CLO4-LOW	8/16/2007 9:00:49 PM	clv
30	2708100363_1/2	IC#4-CLO4-LOW	8/16/2007 9:23:13 PM	clv
31	2708100364_1/2	IC#4-CLO4-LOW	8/16/2007 9:45:37 PM	clv
32	2708100365_1/2	IC#4-CLO4-LOW	8/16/2007 10:08:01 PM	clv
33	2708100367_1/2	IC#4-CLO4-LOW	8/16/2007 10:30:25 PM	clv
34	2708100368_1/2	IC#4-CLO4-LOW	8/16/2007 10:52:49 PM	clv
35	2708100369_1/2	IC#4-CLO4-LOW	8/16/2007 11:15:13 PM	clv
36	2708100370_1/2	IC#4-CLO4-LOW	8/16/2007 11:37:35 PM	clv
37	2708100371_1/2	IC#4-CLO4-LOW	8/16/2007 11:59:59 PM	clv
38	2708100375_1/2	IC#4-CLO4-LOW	8/17/2007 12:22:23 AM	clv
39	HCV	IC#4-CLO4-LOW	8/17/2007 12:44:46 AM	clv
40	QCS	IC#4-CLO4-LOW	8/17/2007 1:07:10 AM	clv
41	IPC	IC#4-CLO4-LOW	8/17/2007 1:29:34 AM	clv
42	-MBLK	IC#4-CLO4-LOW	8/17/2007 1:51:58 AM	clv

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 70
Created: 8/14/2007 6:27:03 PM by clv
Last Update: 8/17/2007 11:08:04 AM by clv

No.	Name	Sample ID	Dil. Factor	Type	Comment	Status	Program
43	-MRLCHK	2	1.0000	Unknown	2	Finished	Perchlorate-IC11
44	-MRLCHK	4	1.0000	Unknown	4	Finished	Perchlorate-IC11
45	-LCS	25	1.0000	Unknown	25	Finished	Perchlorate-IC11
46	-LCSD	25	1.0000	Unknown	25	Finished	Perchlorate-IC11
47	2708070431_1/5	KM SEEP SURFACE	5.0000	Unknown	RR	Finished	Perchlorate-IC11
48	2708100378_1/2 DNR	IEUA 1201077	2.0000	Unknown		Finished	Perchlorate-IC11
49	2708100379_1/2	IEUA 1201078	2.0000	Unknown		Finished	Perchlorate-IC11
50	2708100380_1/2	IEUA 1201075	2.0000	Unknown		Finished	Perchlorate-IC11
51	2708100381_1/2	IEUA 1201085	2.0000	Unknown		Finished	Perchlorate-IC11
52	2708100382_1/2	IEUA RP3-1/1	2.0000	Unknown		Finished	Perchlorate-IC11
53	2708100422_1/2	IEUA DC2	2.0000	Unknown		Finished	Perchlorate-IC11
54	2708130155_1/50000	KM GW-11 SW	50000.0000	Unknown		Finished	Perchlorate-IC11
55	2708130319_1/2	IEUA 1002253	2.0000	Unknown		Finished	Perchlorate-IC11
56	2708130320_1/2	IEUA 1002254	2.0000	Unknown		Finished	Perchlorate-IC11
57	2708130320-MS	25	2.0000	Unknown	25	Finished	Perchlorate-IC11
58	2708130320-MSD	25	2.0000	Unknown	25	Finished	Perchlorate-IC11
59	CCV	25	1.0000	Unknown	25	Finished	Perchlorate-IC11
60	2708130321_1/2	IEUA 1002362	2.0000	Unknown		Finished	Perchlorate-IC11
61	2708130322_1/2	IEUA 1002438	2.0000	Unknown		Finished	Perchlorate-IC11
62	2708130323_1/2	IEUA 1003480	2.0000	Unknown		Finished	Perchlorate-IC11
63	2708140265_1/5	KM ART-1	5.0000	Unknown		Finished	Perchlorate-IC11
64	2708140267_1/2500	KM ART-2	2500.0000	Unknown		Finished	Perchlorate-IC11
65	2708140268_1/10000	KM ART-3	10000.0000	Unknown		Finished	Perchlorate-IC11
66	2708140269_1/10000	KM ART-4	10000.0000	Unknown		Finished	Perchlorate-IC11
67	2708140270_1/5000	KM ART-6	5000.0000	Unknown		Finished	Perchlorate-IC11
68	2708140271_1/5000	KM ART-7	5000.0000	Unknown		Finished	Perchlorate-IC11
69	2708140272_1/10000	KM ART-8	10000.0000	Unknown		Finished	Perchlorate-IC11
70	HCV	100	1.0000	Unknown	100	Finished	Perchlorate-IC11

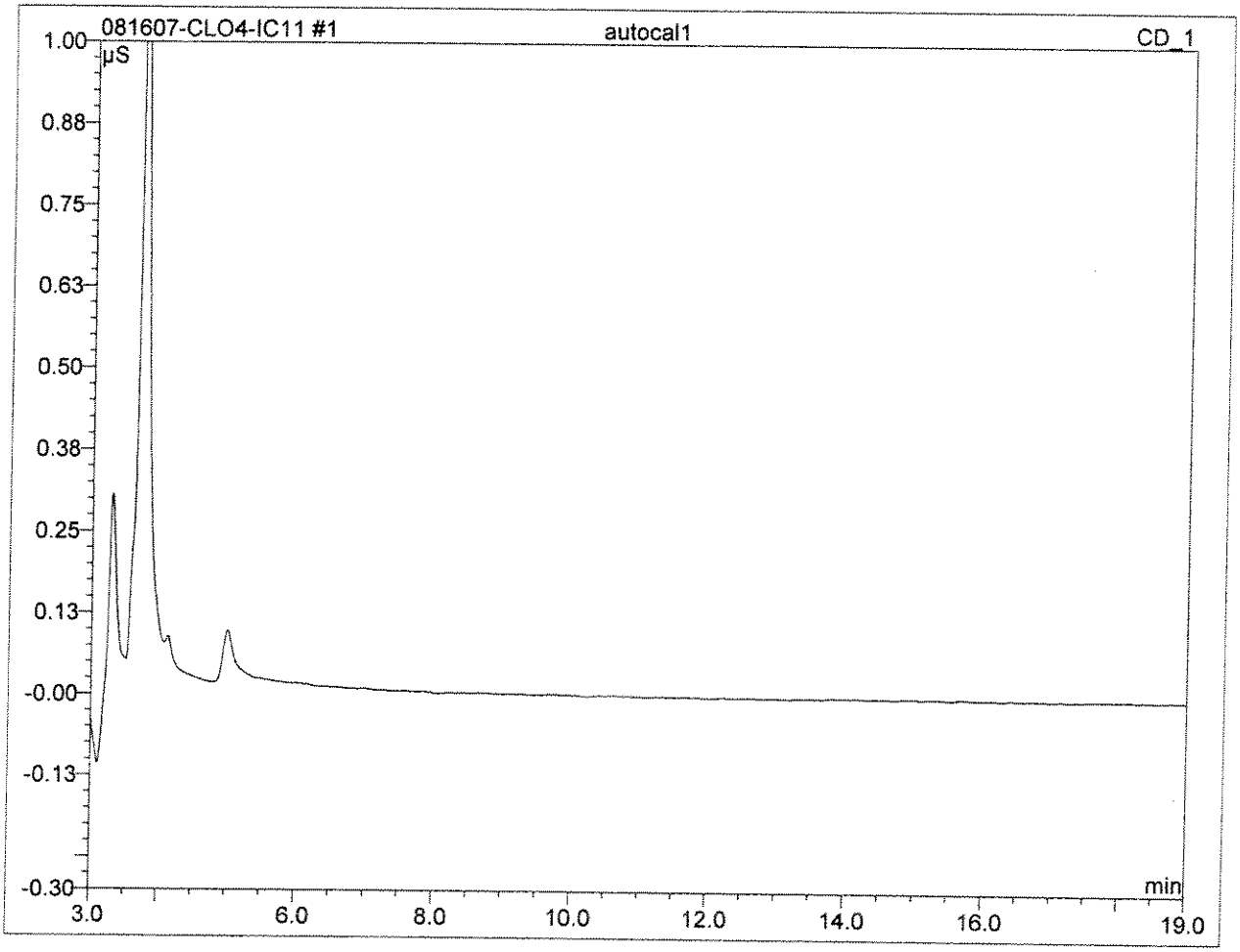
Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 70
Created: 8/14/2007 6:27:03 PM by clv
Last Update: 8/17/2007 11:08:04 AM by clv

No.	Name	Method	Inj. Date/Time	*Analyst
43	-MRLCHK	IC#4-CLO4-LOW	8/17/2007 2:14:21 AM	clv
44	-MRLCHK	IC#4-CLO4-LOW	8/17/2007 2:36:45 AM	clv
45	-LCS	IC#4-CLO4-LOW	8/17/2007 2:59:09 AM	clv
46	-LCSD	IC#4-CLO4-LOW	8/17/2007 3:21:33 AM	clv
47	2708070431_1/5	IC#4-CLO4-LOW	8/17/2007 3:43:57 AM	clv
48	2708100378_1/2 DNR	IC#4-CLO4-LOW	8/17/2007 4:06:21 AM	clv
49	2708100379_1/2	IC#4-CLO4-LOW	8/17/2007 4:28:45 AM	clv
50	2708100380_1/2	IC#4-CLO4-LOW	8/17/2007 4:51:10 AM	clv
51	2708100381_1/2	IC#4-CLO4-LOW	8/17/2007 5:13:32 AM	clv
52	2708100382_1/2	IC#4-CLO4-LOW	8/17/2007 5:35:52 AM	clv
53	2708100422_1/2	IC#4-CLO4-LOW	8/17/2007 5:58:22 AM	clv
54	2708130155_1/50000	IC#4-CLO4-LOW	8/17/2007 6:20:45 AM	clv
55	2708130319_1/2	IC#4-CLO4-LOW	8/17/2007 6:43:09 AM	clv
56	2708130320_1/2	IC#4-CLO4-LOW	8/17/2007 7:05:33 AM	clv
57	2708130320-MS	IC#4-CLO4-LOW	8/17/2007 7:27:56 AM	clv
58	2708130320-MSD	IC#4-CLO4-LOW	8/17/2007 7:50:20 AM	clv
59	CCV	IC#4-CLO4-LOW	8/17/2007 8:12:43 AM	clv
60	2708130321_1/2	IC#4-CLO4-LOW	8/17/2007 8:35:04 AM	clv
61	2708130322_1/2	IC#4-CLO4-LOW	8/17/2007 8:57:26 AM	clv
62	2708130323_1/2	IC#4-CLO4-LOW	8/17/2007 9:19:56 AM	clv
63	2708140265_1/5	IC#4-CLO4-LOW	8/17/2007 9:42:20 AM	clv
64	2708140267_1/2500	IC#4-CLO4-LOW	8/17/2007 10:04:44 AM	clv
65	2708140268_1/10000	IC#4-CLO4-LOW	8/17/2007 10:27:09 AM	clv
66	2708140269_1/10000	IC#4-CLO4-LOW	8/17/2007 10:49:33 AM	clv
67	2708140270_1/5000	IC#4-CLO4-LOW	8/17/2007 11:11:58 AM	clv
68	2708140271_1/5000	IC#4-CLO4-LOW	8/17/2007 11:34:20 AM	clv
69	2708140272_1/10000	IC#4-CLO4-LOW	8/17/2007 11:56:39 AM	clv
70	HCV	IC#4-CLO4-LOW	8/17/2007 12:19:06 PM	clv

1 autocal1

0

Sample Name:	**autocal1**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 10:33**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

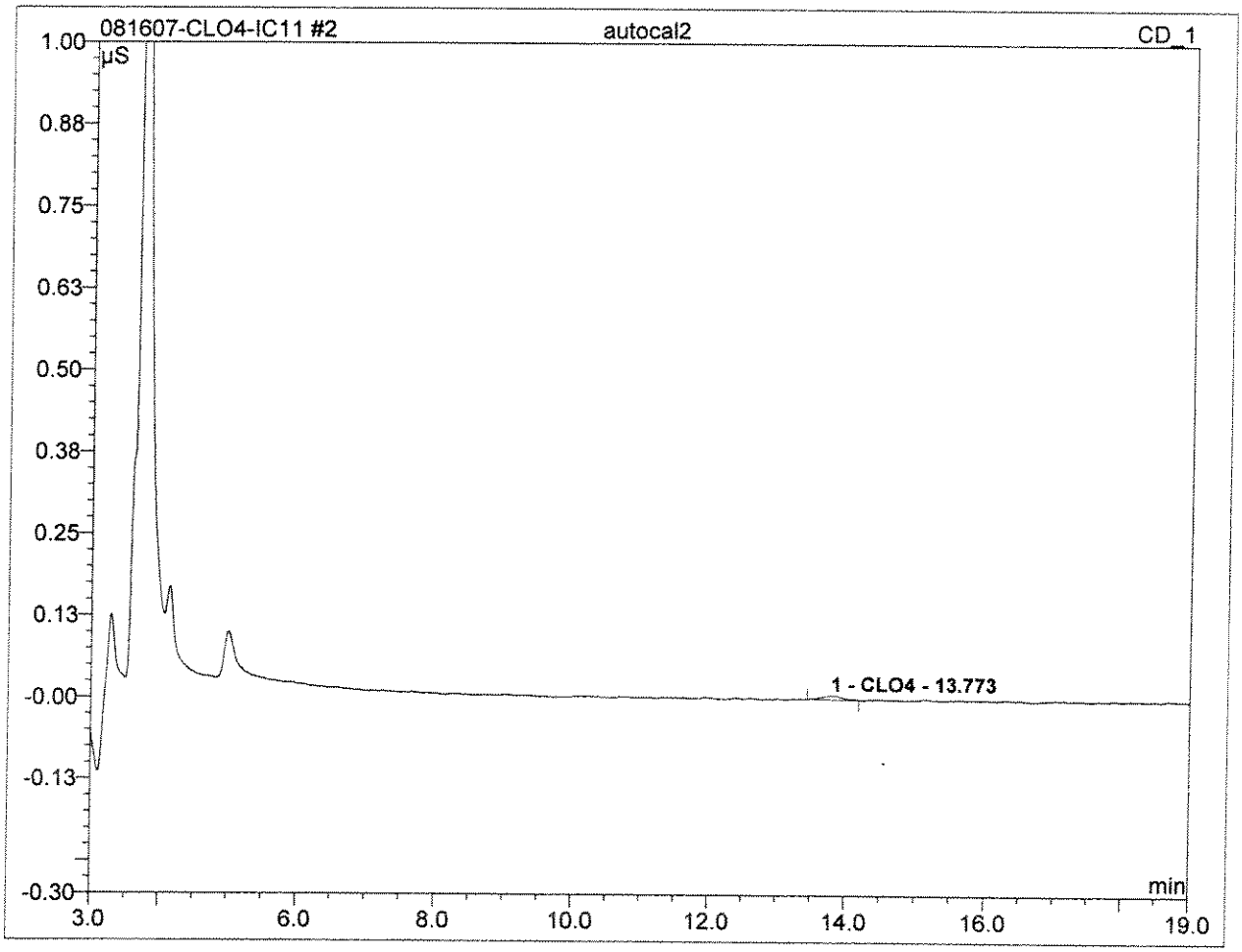


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

2 autocal2

2

Sample Name:	**autocal2**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 10:56**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

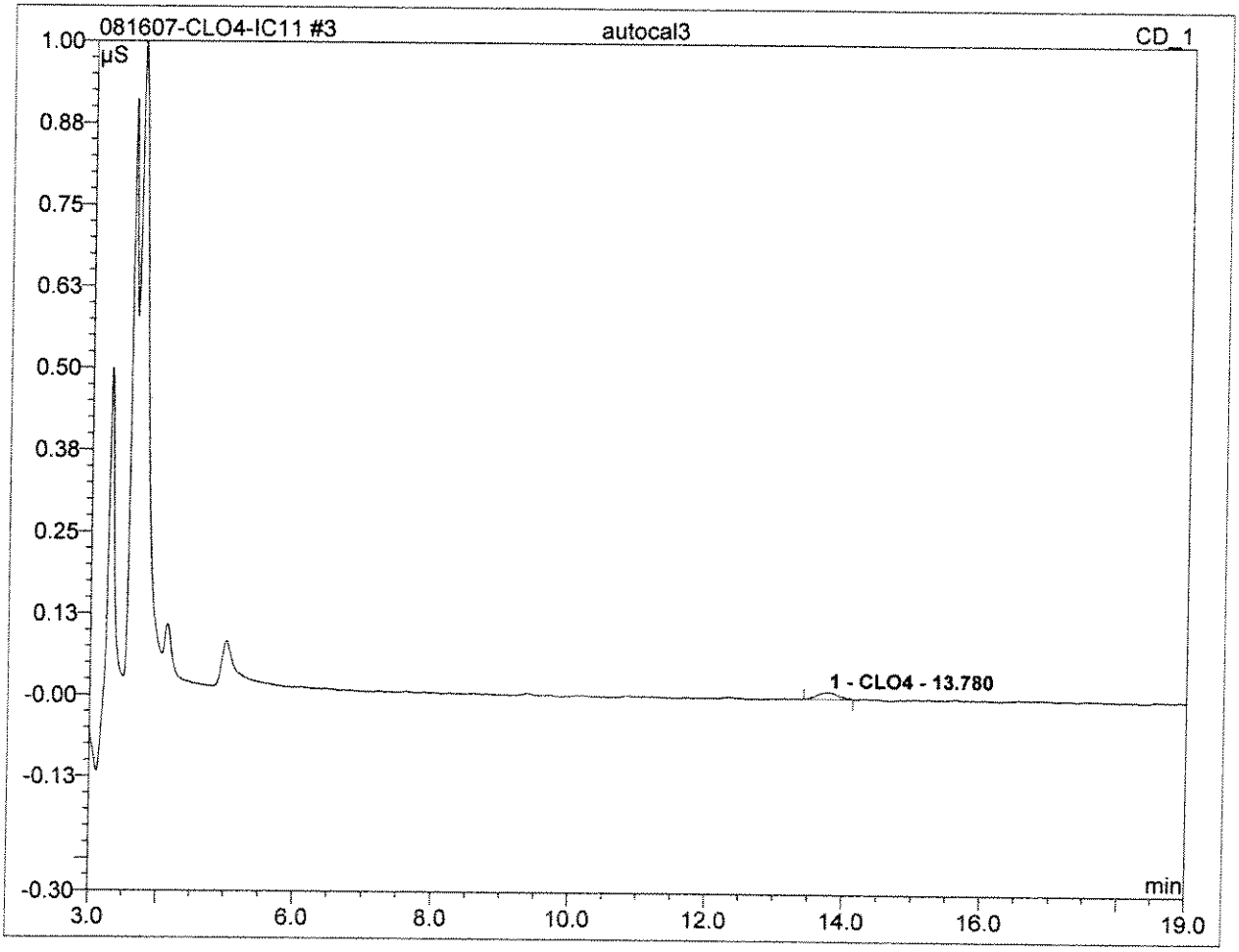


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.77	CLO4	0.006	0.002	100.00	2.503	BMB
Total:			0.006	0.002	100.00	2.503	

3 autocal3

4

Sample Name:	**autocal3**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 11:18**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

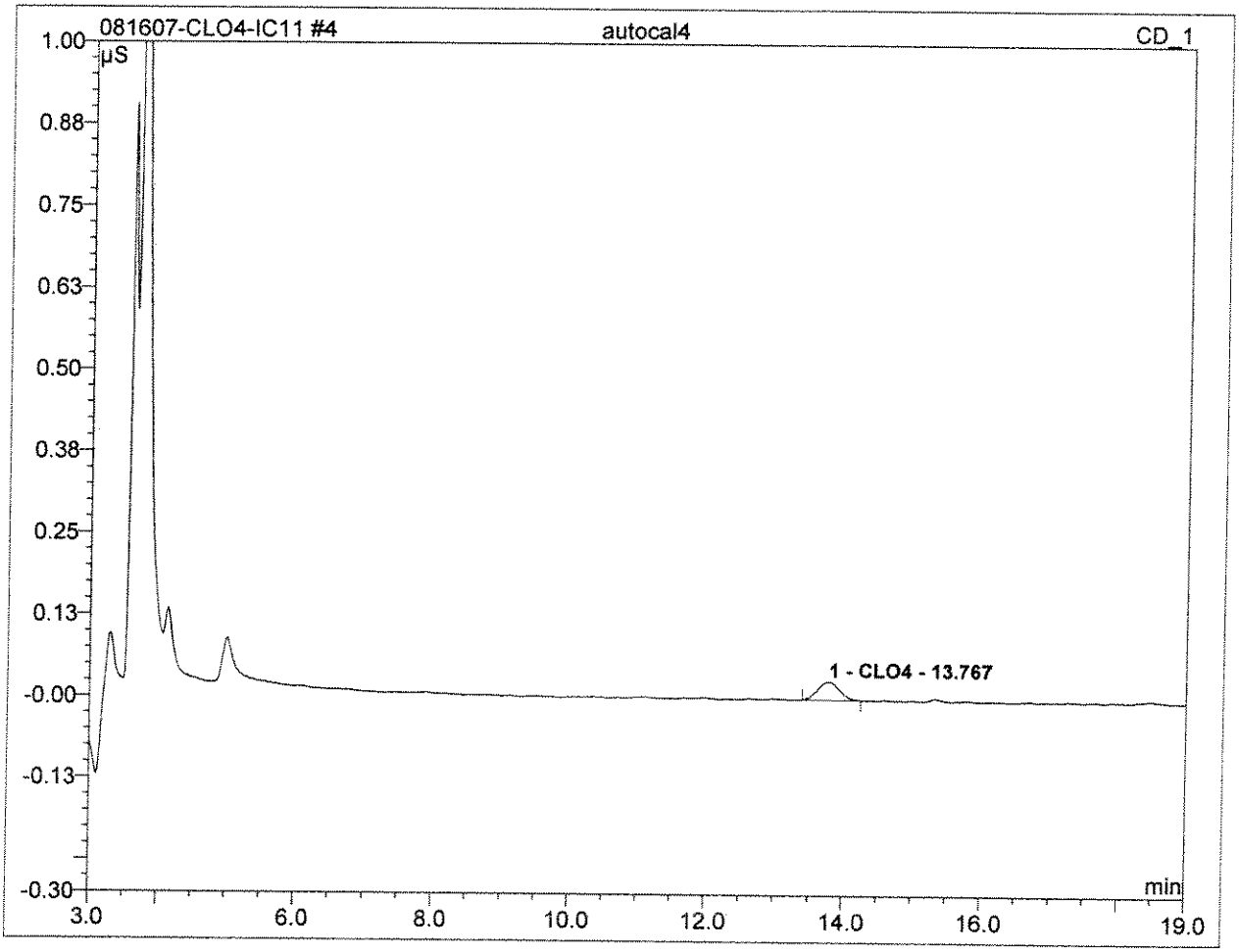


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.78	CLO4	0.010	0.004	100.00	4.046	BMB
Total:			0.010	0.004	100.00	4.046	

4 autocal4

10

Sample Name:	**autocal4**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 11:40**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

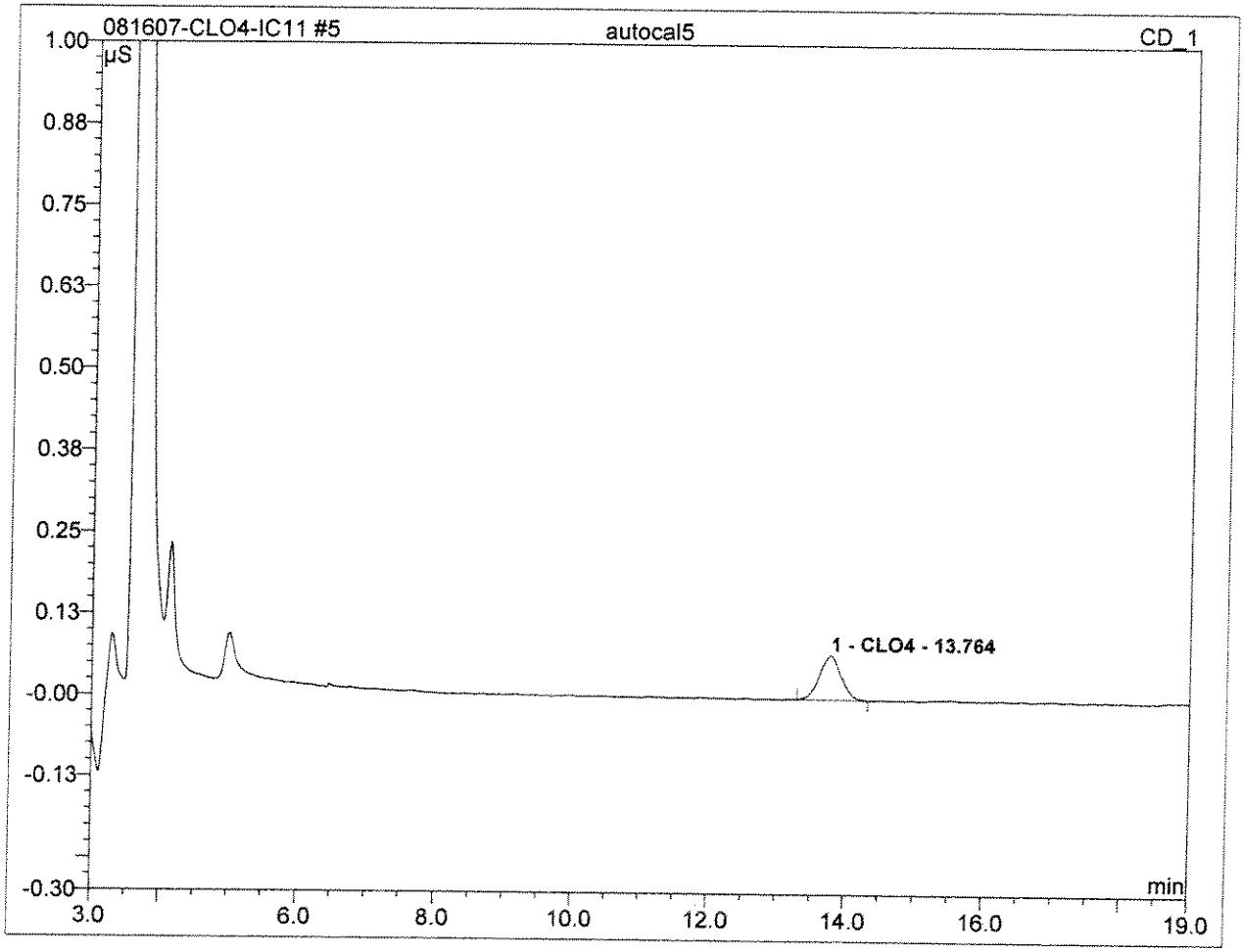


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.77	CLO4	0.027	0.010	100.00	9.813	BMB
Total:			0.027	0.010	100.00	9.813	

5 autocal5

25

Sample Name:	**autocal5**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 12:03**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

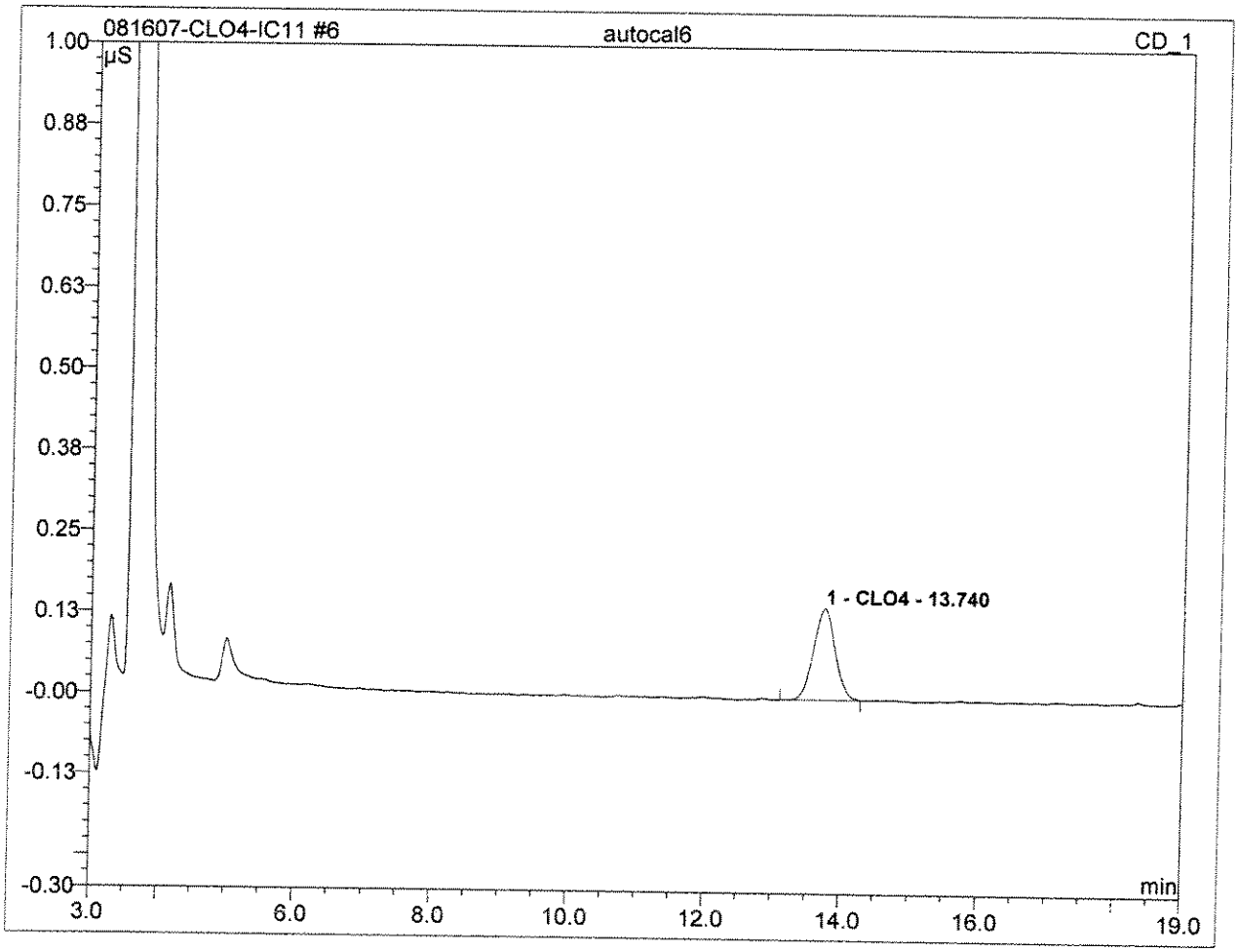


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.76	CLO4	0.068	0.025	100.00	23.917	BMB
Total:			0.068	0.025	100.00	23.917	

6 autocal6

50

Sample Name:	**autocal6**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 12:25**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

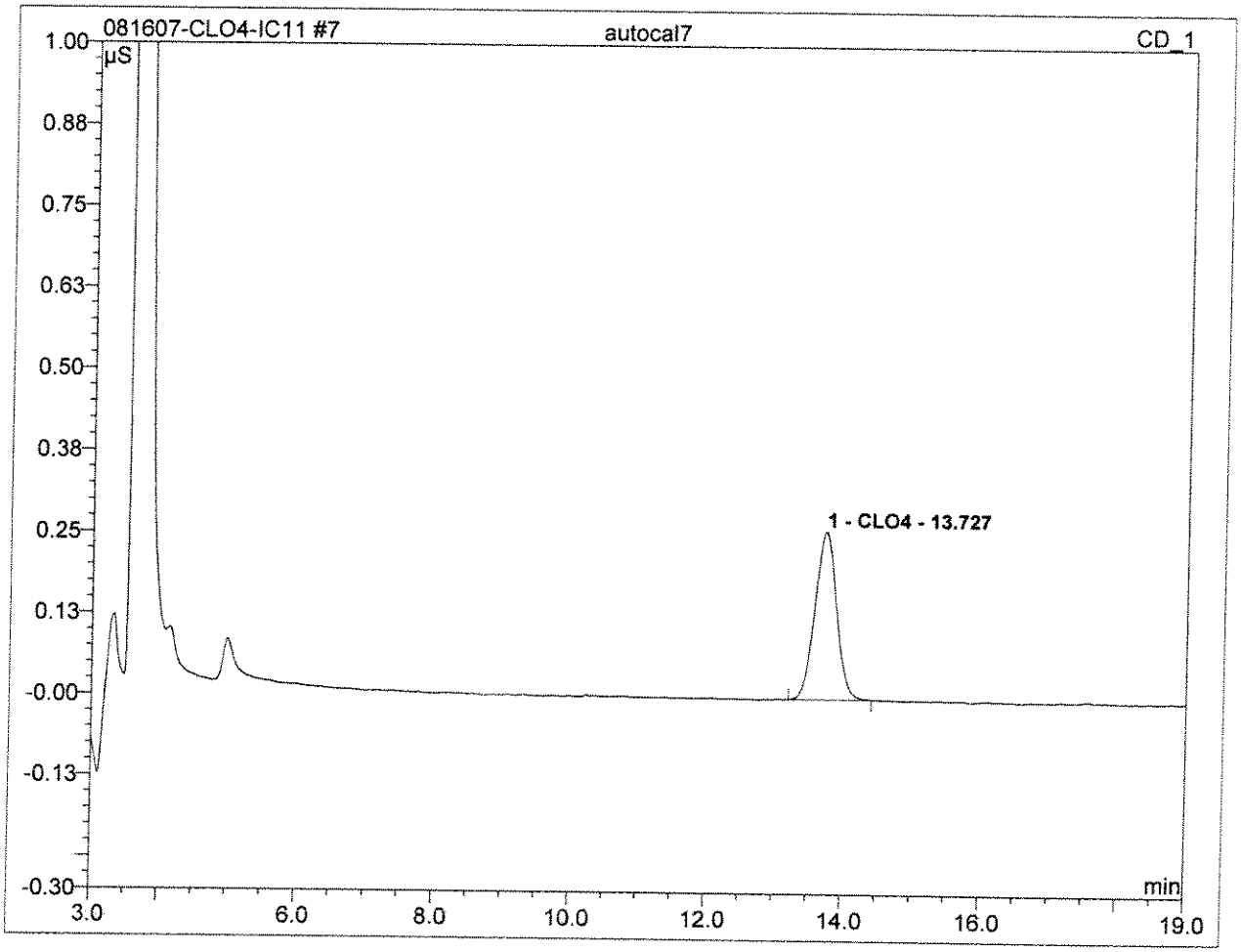


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.141	0.052	100.00	50.902	BMB
Total:			0.141	0.052	100.00	50.902	

7 autocal7

100

Sample Name:	**autocal7**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 12:48**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

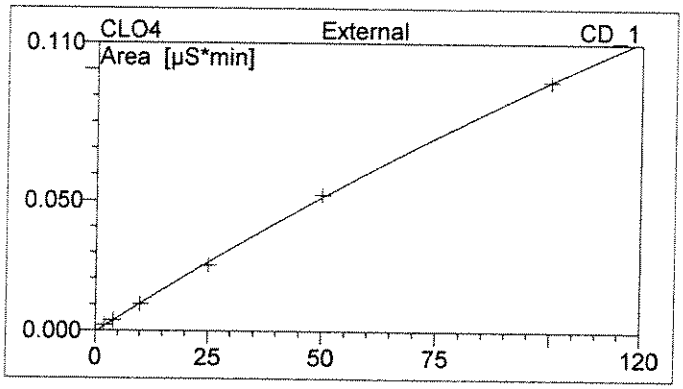


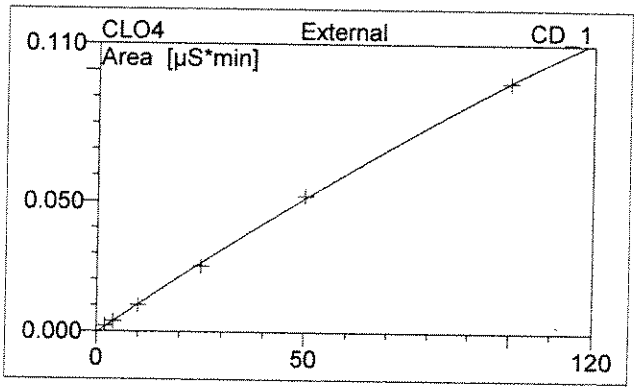
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.259	0.096	100.00	99.821	BMB
Total:			0.259	0.096	100.00	99.821	

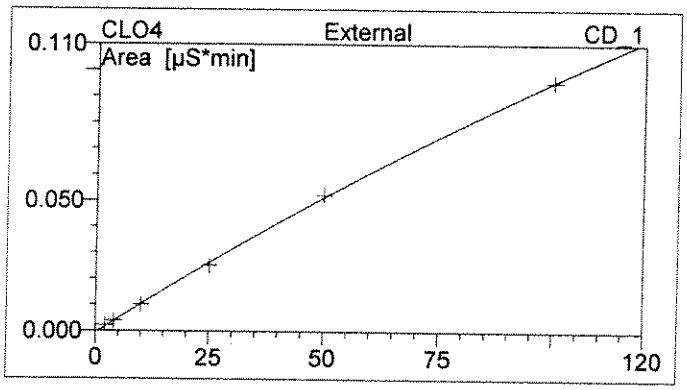
7 autocal7

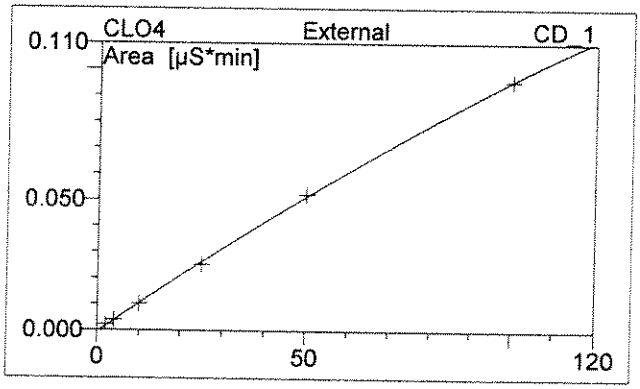
100

Sample Name:	**autocal7**	*Injection Volume:*	**20.0**
Vial Number:	**109**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Perchlorate-IC11**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC#4-CLO4-LOW**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/16/2007 12:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**20.00**	*Sample Amount:*	**1.0000**







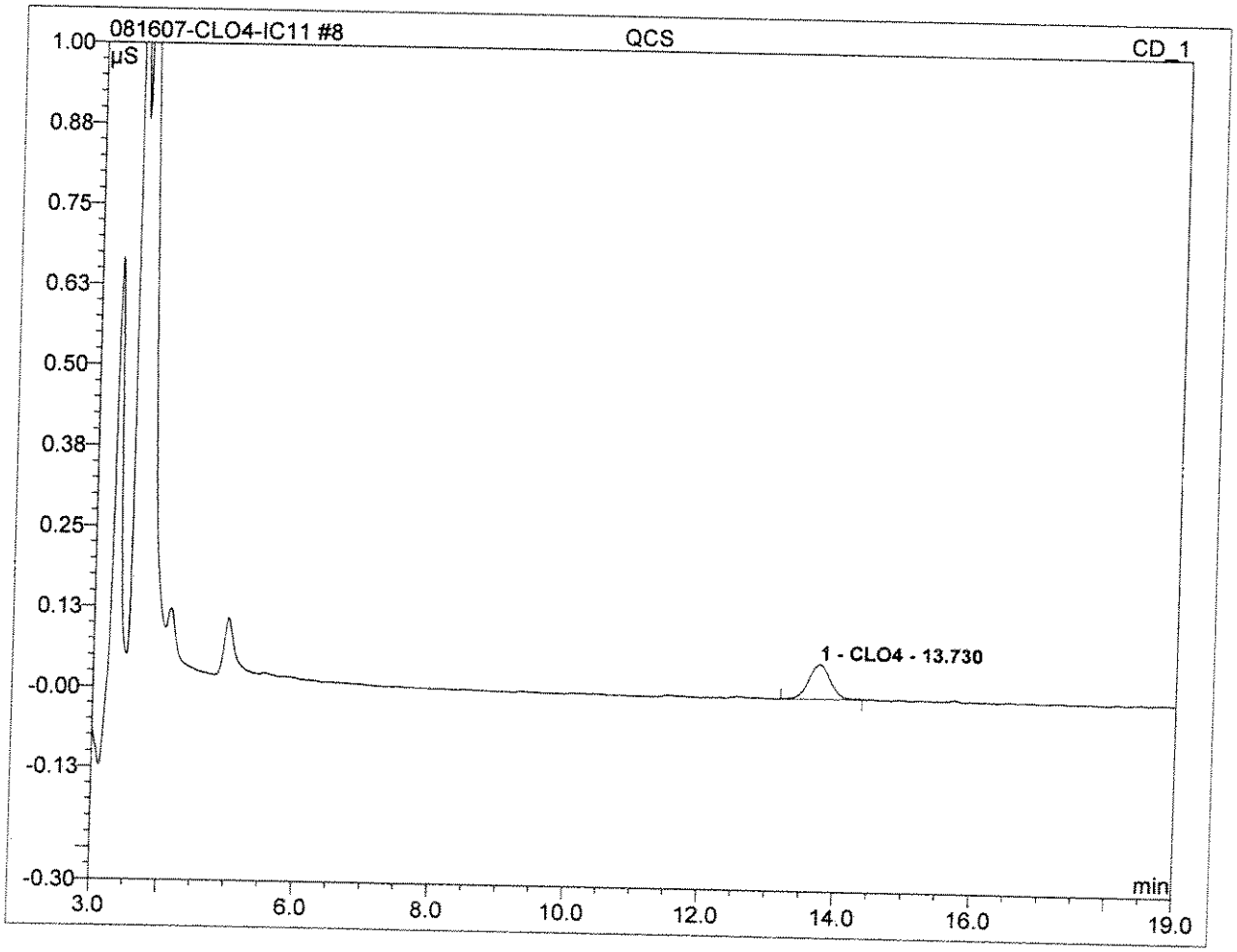


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	13.73	CLO4	QOff	6	99.8923	-0.0007	0.0011	0.0000
Average:					99.8923	-0.0007	0.0011	0.0000

8 QCS

20

Sample Name:	**QCS**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 13:10**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

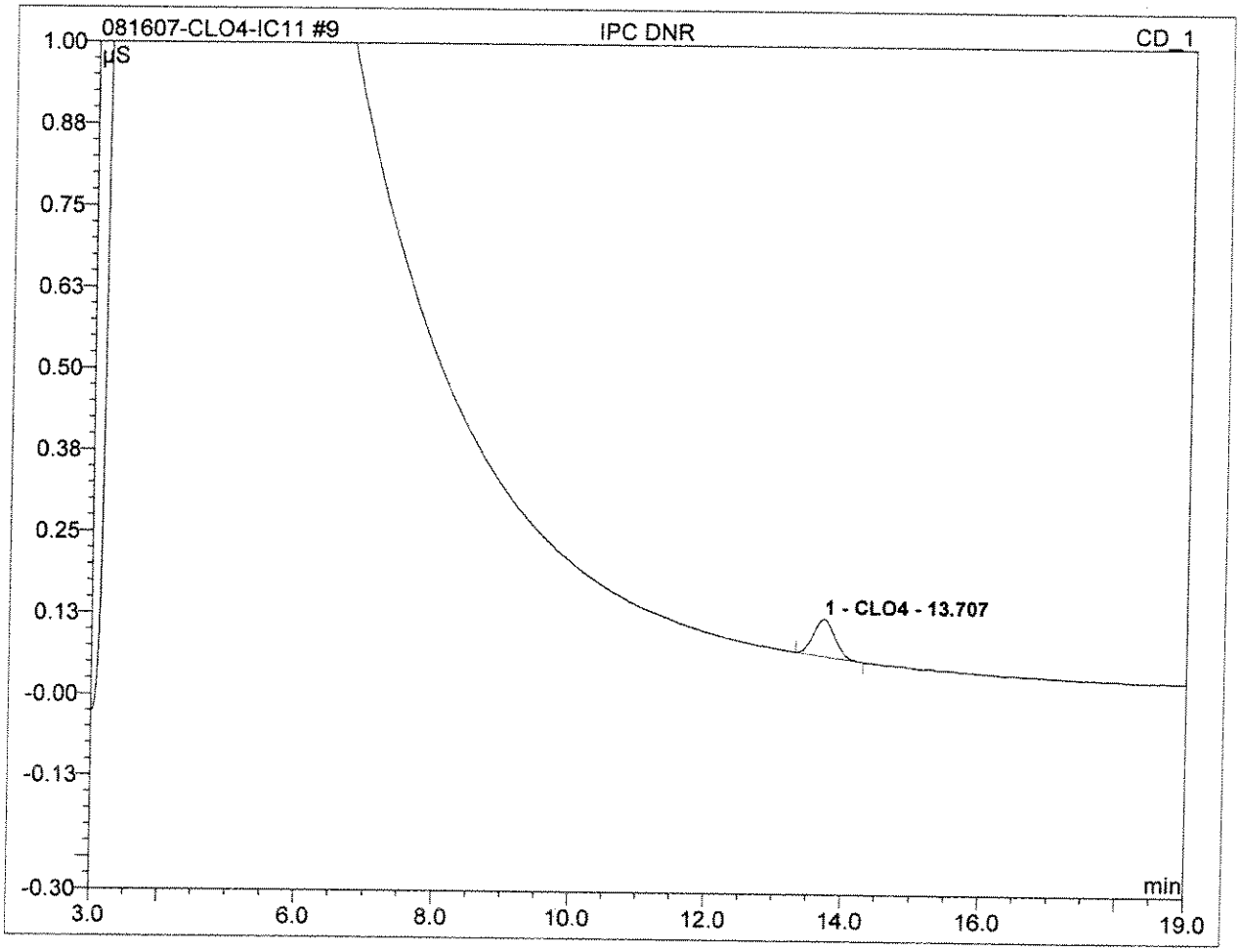


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.054	0.020	100.00	19.392	BMB
Total:			0.054	0.020	100.00	19.392	

9 IPC DNR

25

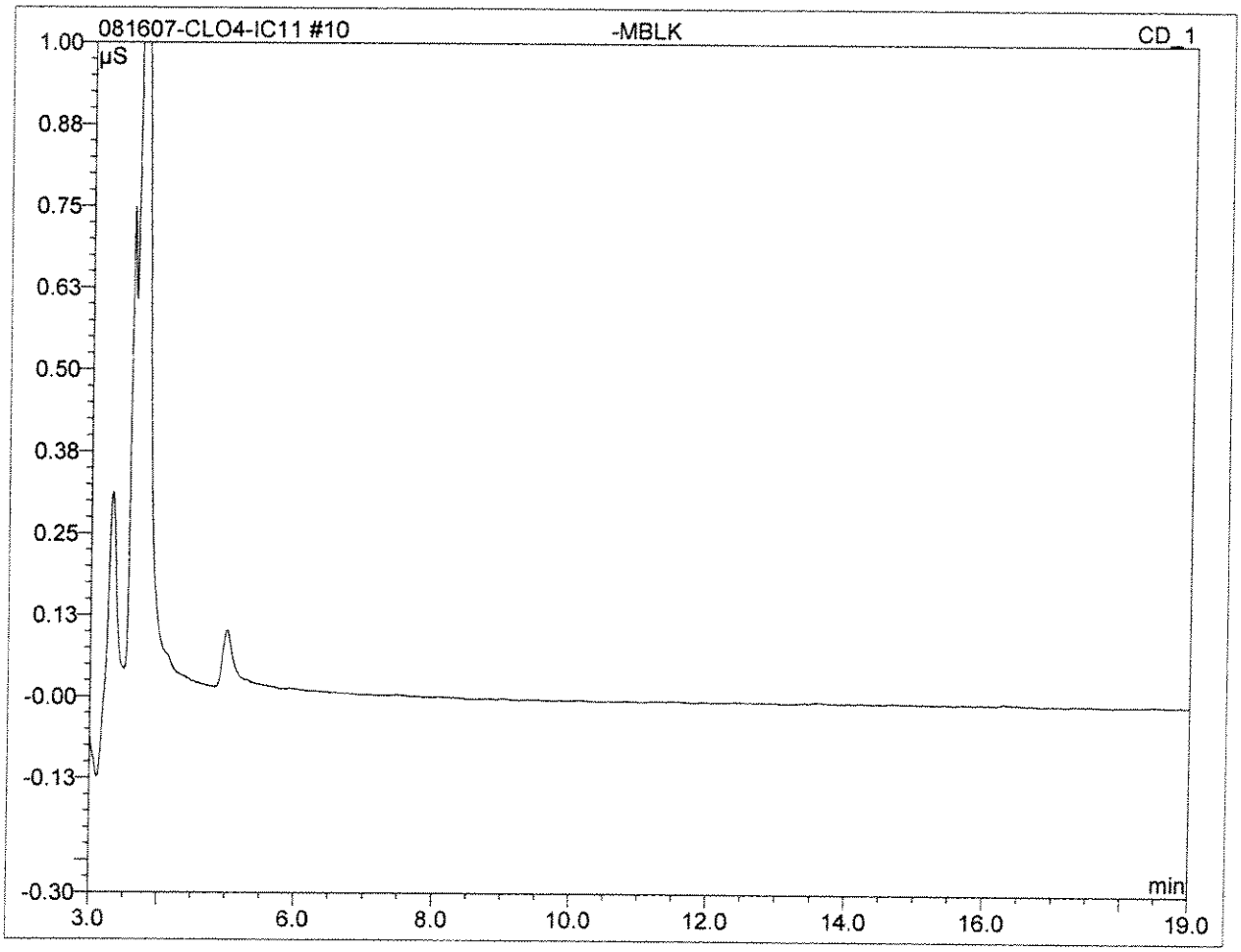
Sample Name:	**IPC DNR**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 13:32**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.71	CLO4	0.057	0.021	100.00	19.791	BMB
Total:			0.057	0.021	100.00	19.791	

10 -MBLK

Sample Name:	**-MBLK**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 13:55**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

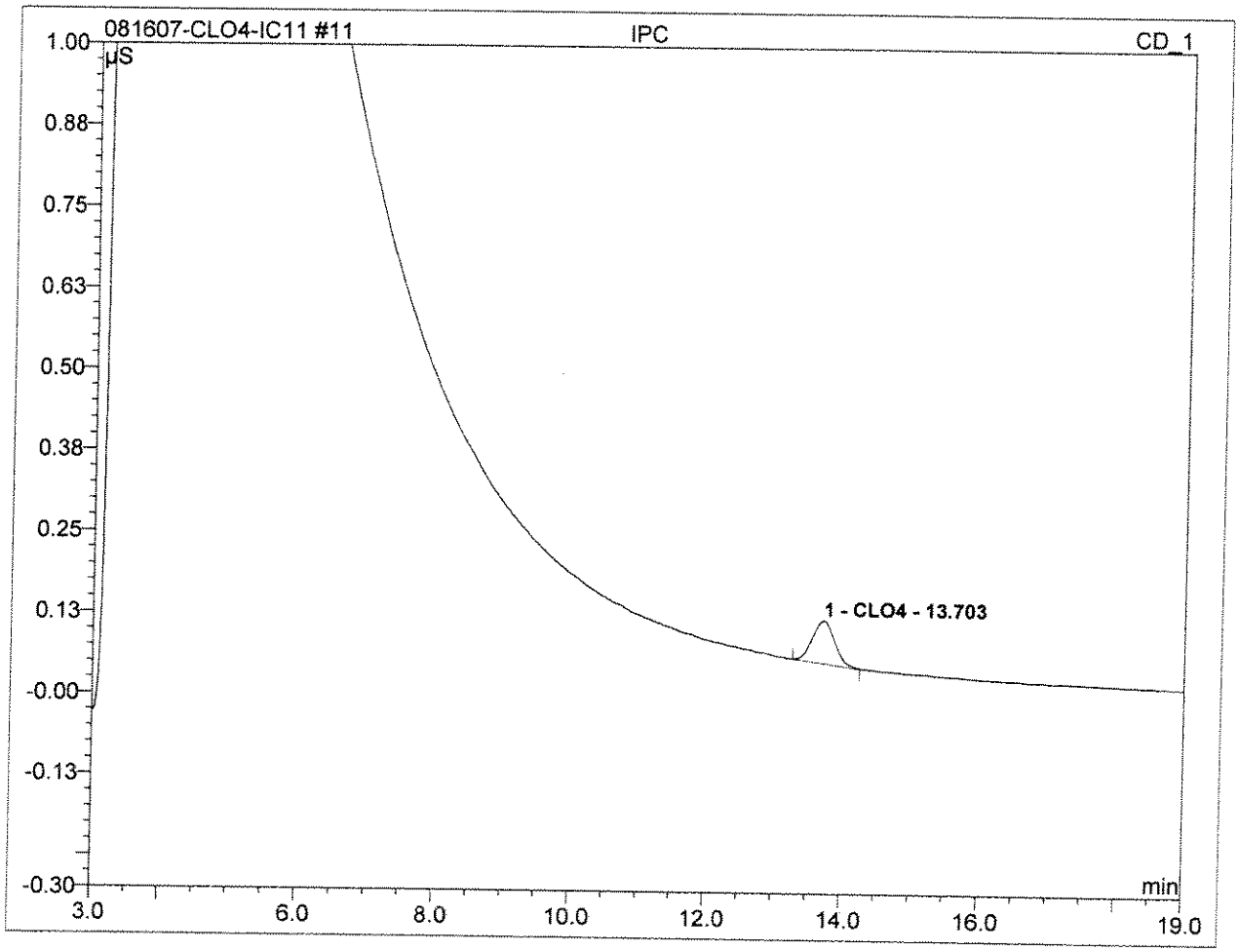


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

11 IPC

RR

Sample Name:	**IPC**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 14:17**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

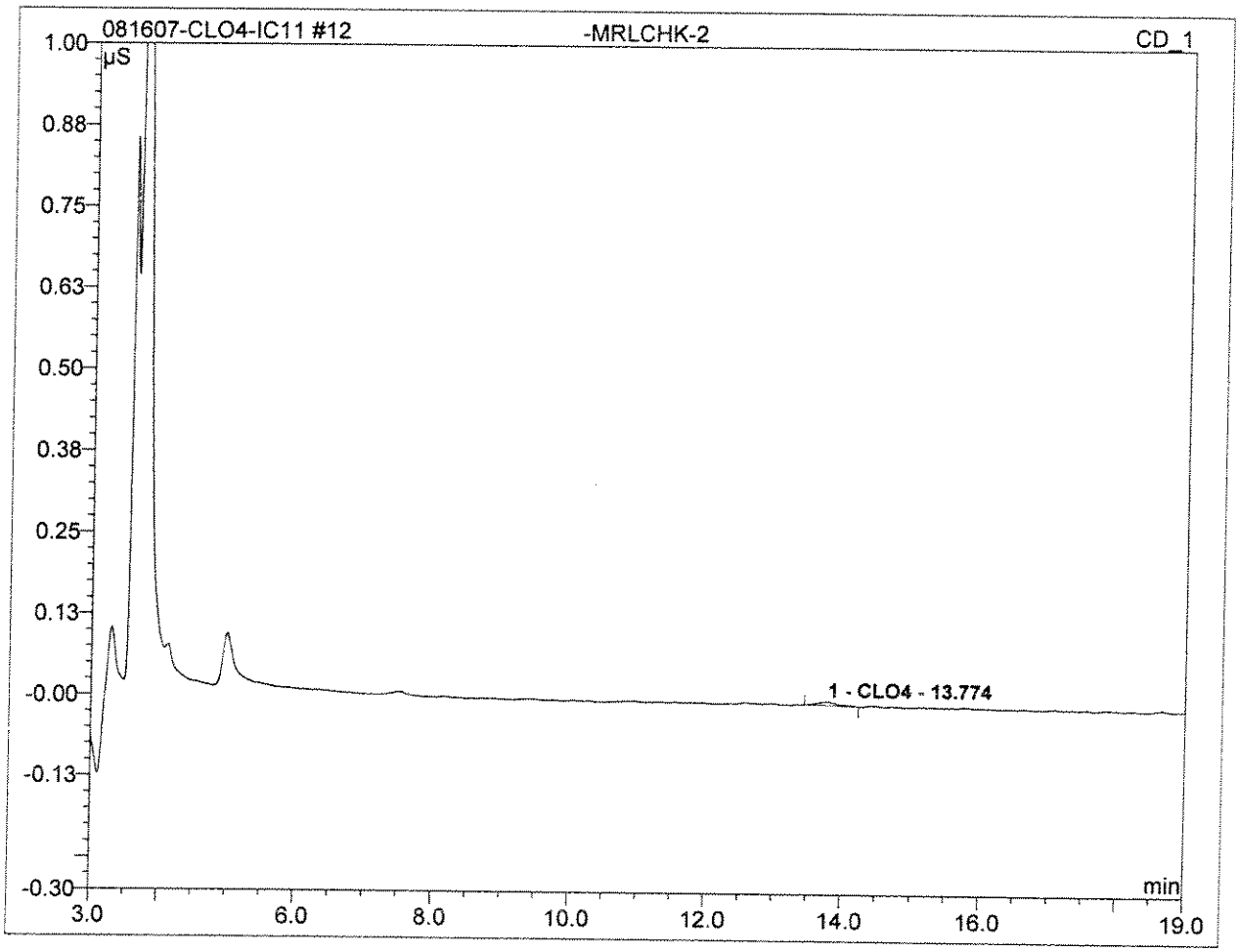


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.70	CLO4	0.066	0.025	100.00	23.542	BMB
Total:			0.066	0.025	100.00	23.542	

12 -MRLCHK-2

2

Sample Name:	**-MRLCHK-2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 14:40**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

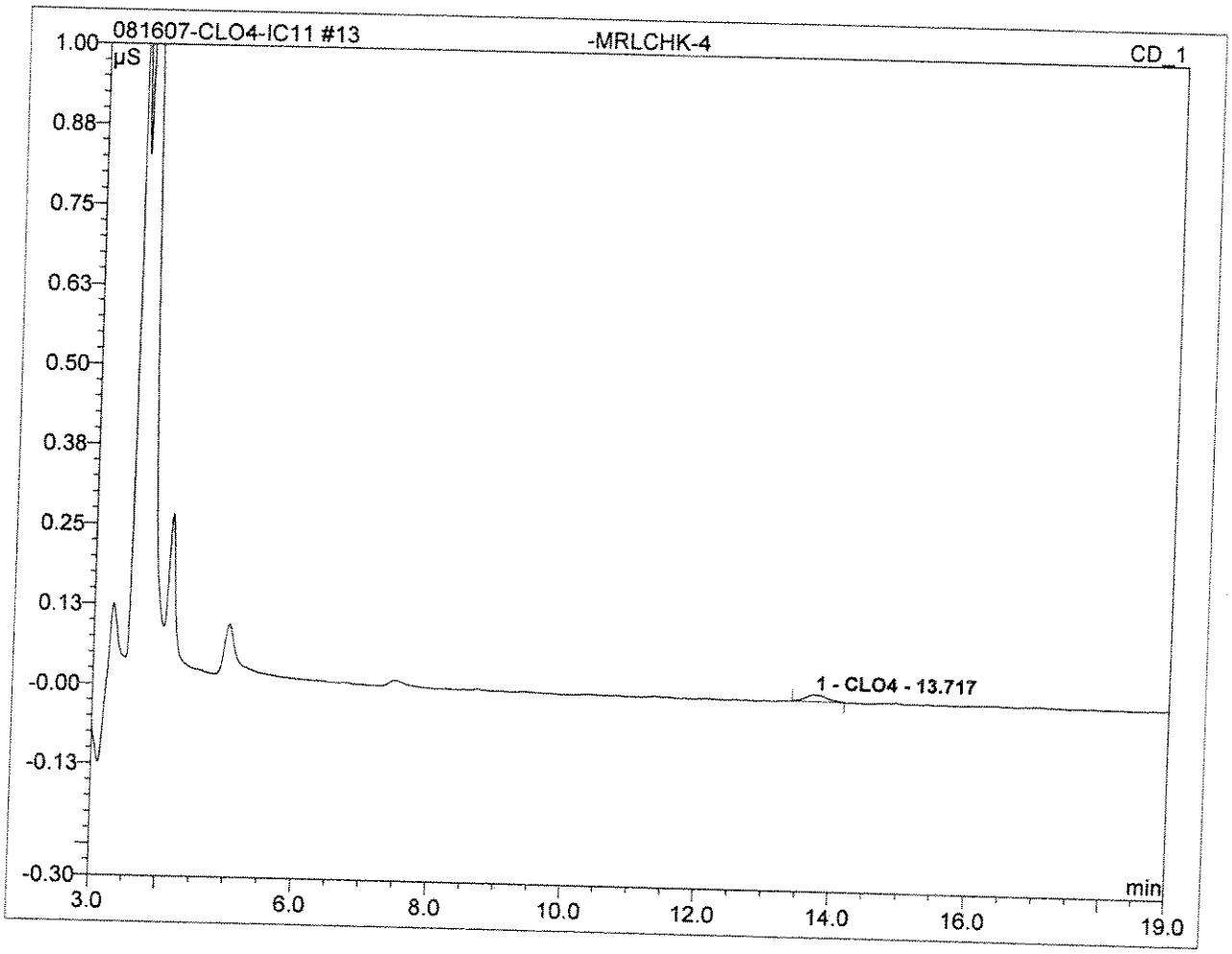


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.77	CLO4	0.006	0.002	100.00	2.353	BMB
Total:			0.006	0.002	100.00	2.353	

13 -MRLCHK-4

4

Sample Name:	**-MRLCHK-4**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/16/2007 15:02**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

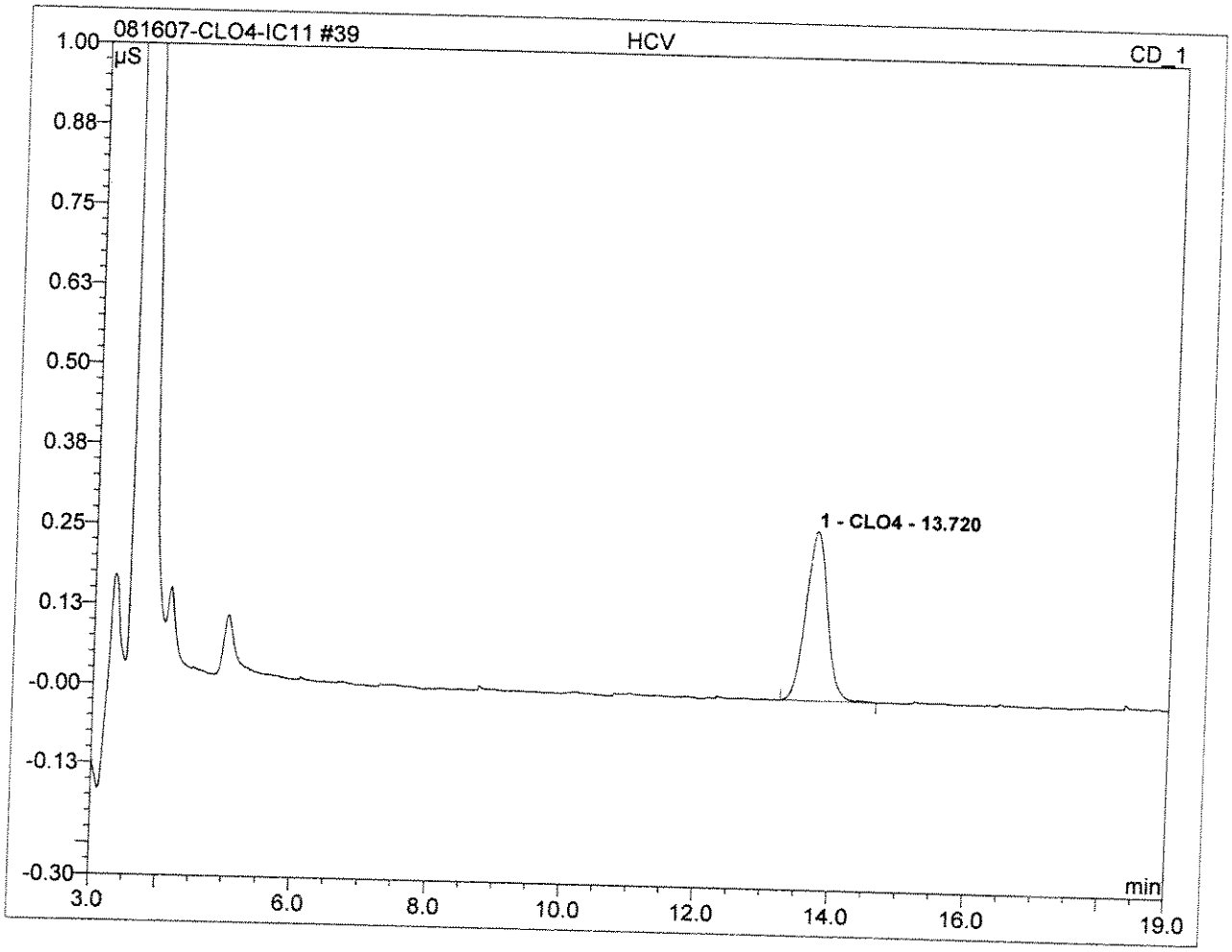


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.72	CLO4	0.011	0.004	100.00	4.215	BMB
Total:			0.011	0.004	100.00	4.215	

39 HCV

100

Sample Name:	**HCV**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 00:44**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

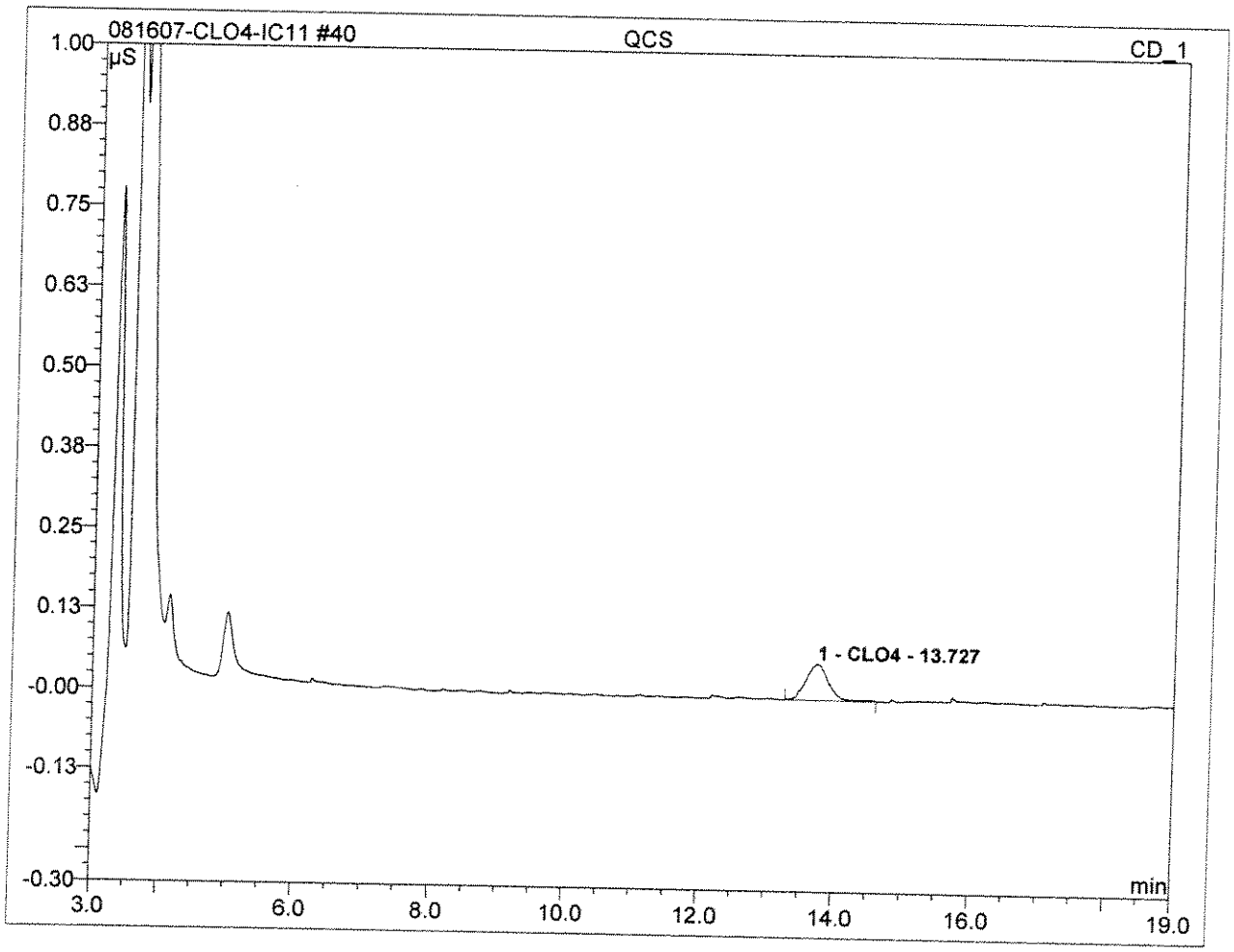


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.72	CLO4	0.265	0.099	100.00	104.133	BMB
Total:			0.265	0.099	100.00	104.133	

40 QCS

20

Sample Name:	**QCS**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 01:07**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

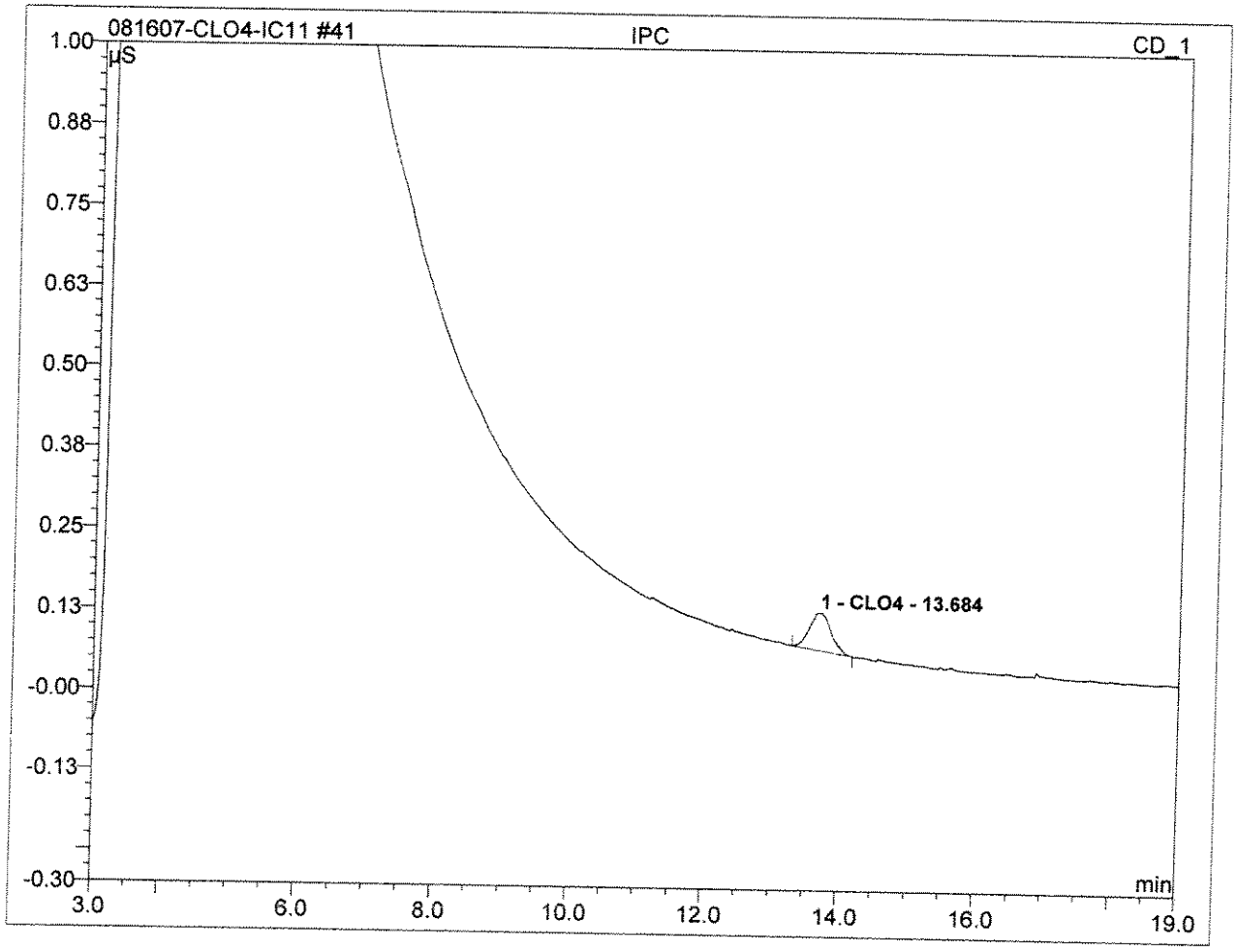


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.056	0.022	100.00	20.592	BMB
Total:			0.056	0.022	100.00	20.592	

41 IPC

25

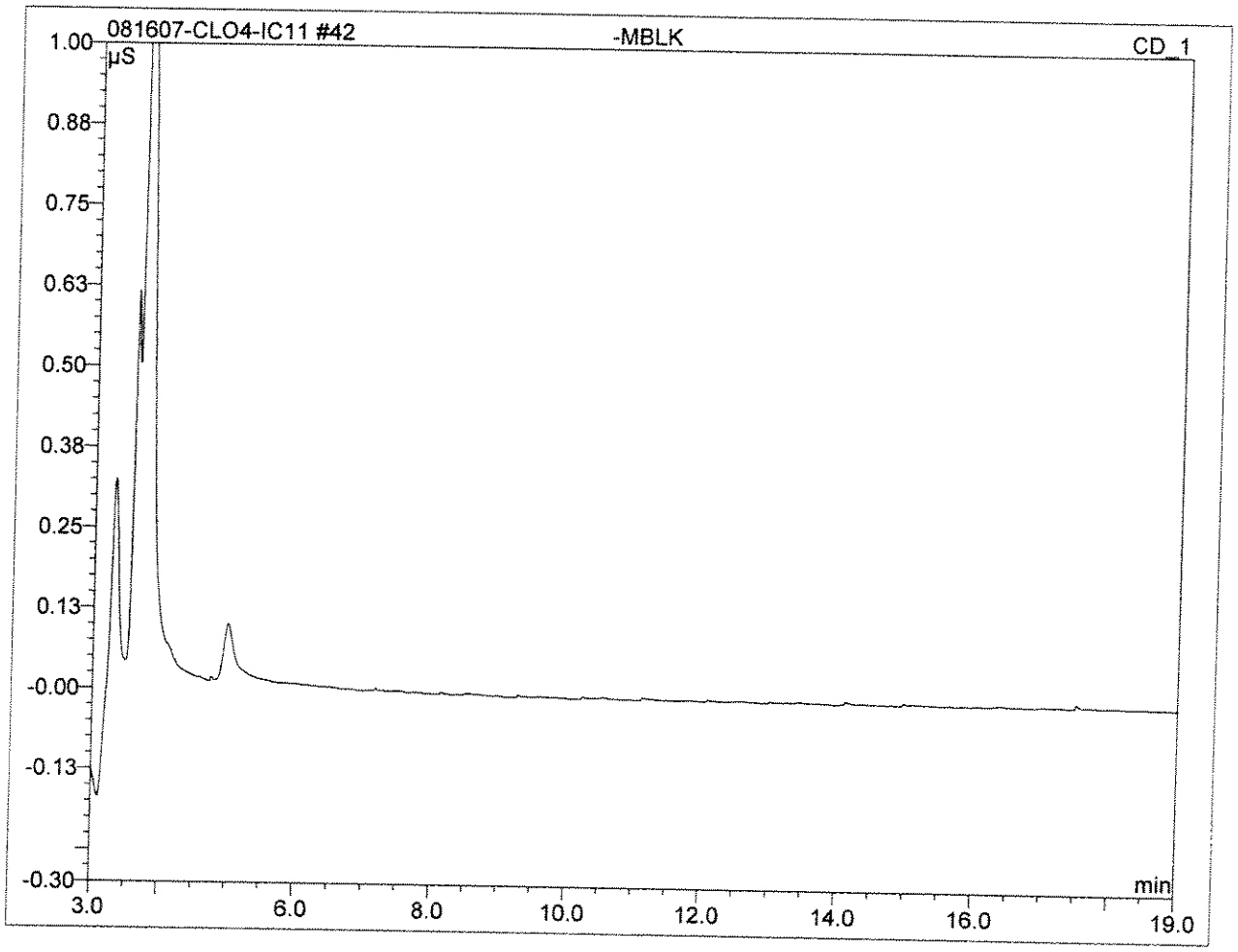
Sample Name:	**IPC**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 01:29**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.68	CLO4	0.058	0.021	100.00	20.376	BMB
Total:			0.058	0.021	100.00	20.376	

42 -MBLK

Sample Name:	**-MBLK**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 01:51**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

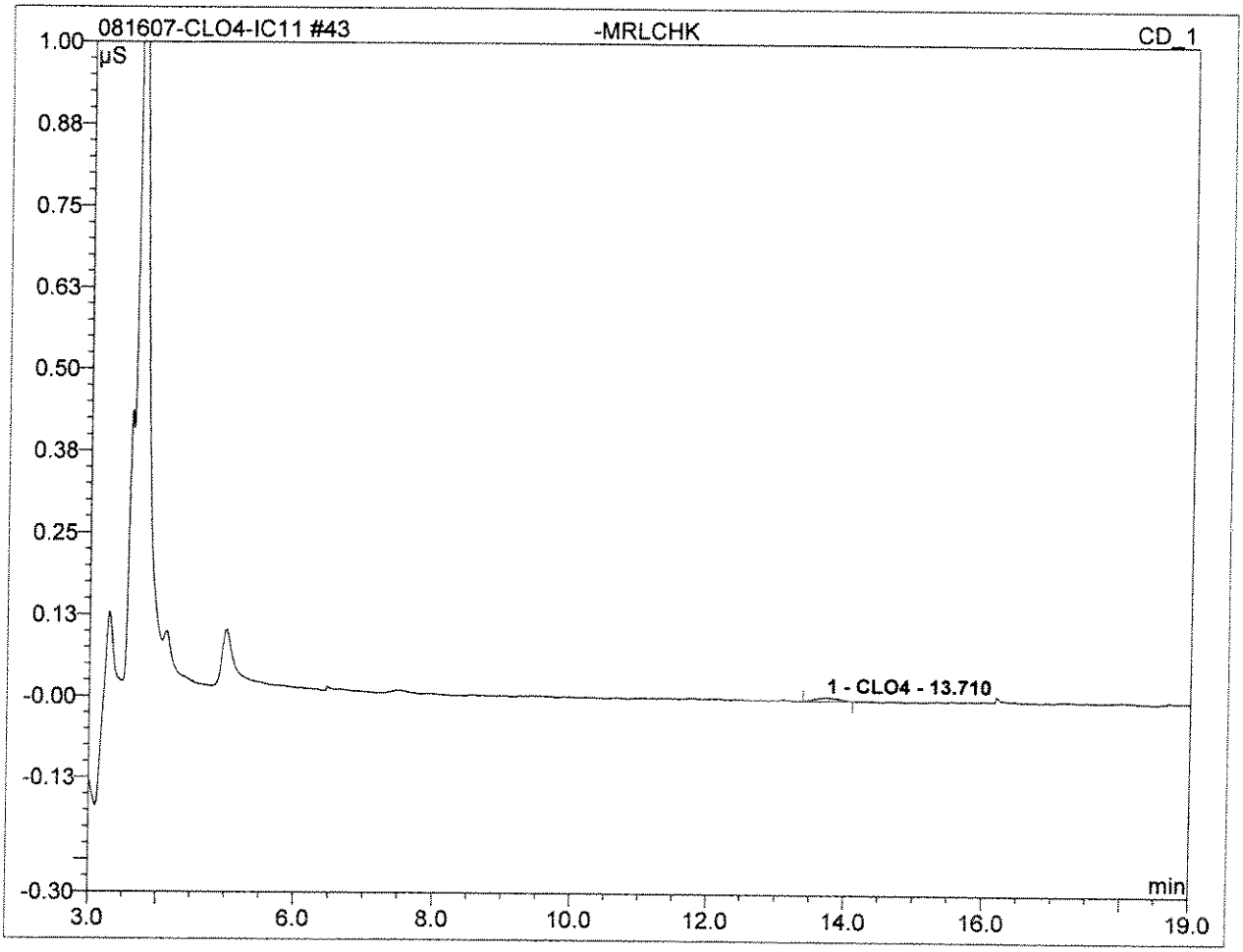


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

43 -MRLCHK

2

Sample Name:	**-MRLCHK**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 02:14**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

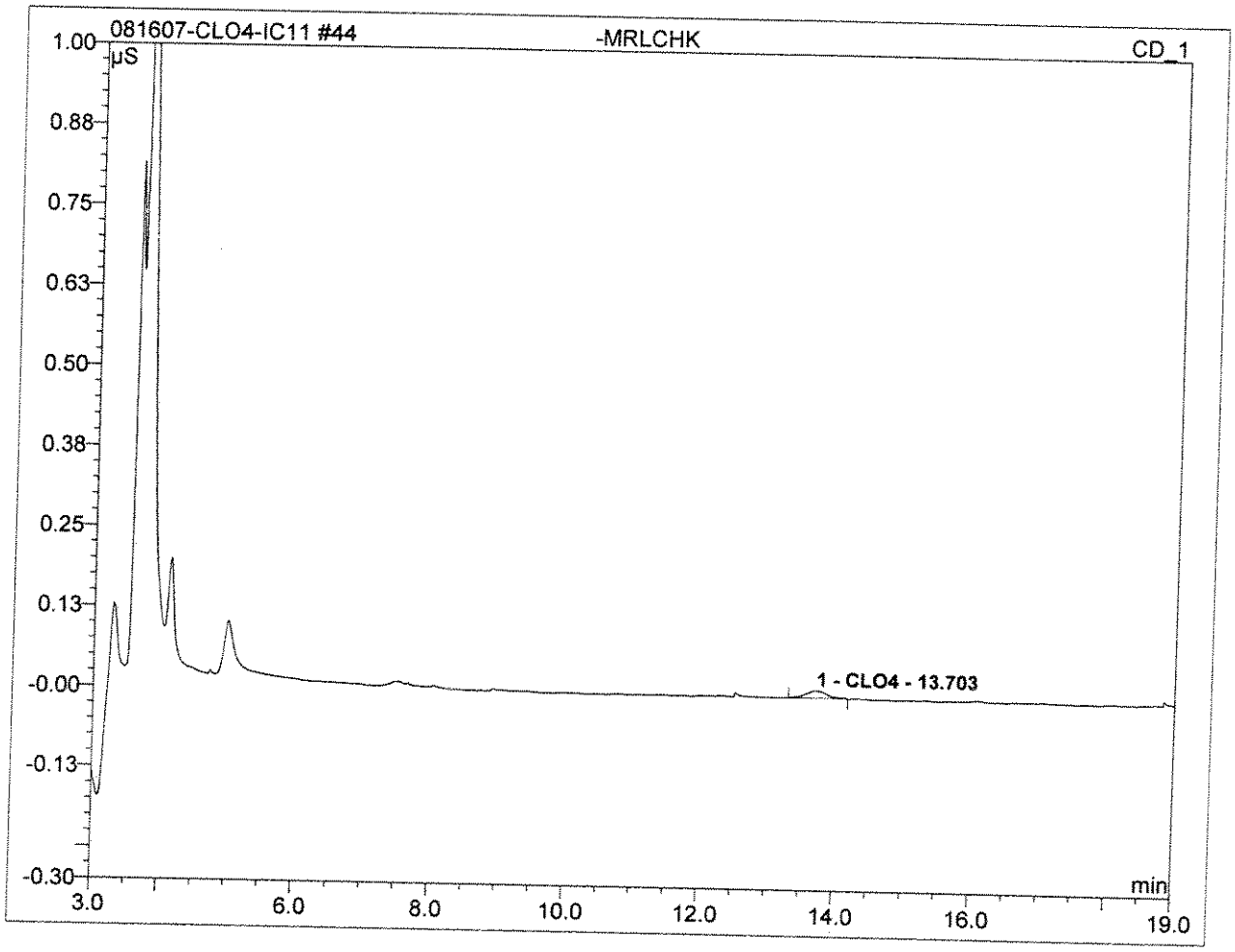


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.71	CLO4	0.006	0.002	100.00	2.571	BMB
Total:			0.006	0.002	100.00	2.571	

44 -MRLCHK

4

Sample Name:	**-MRLCHK**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 02:36**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

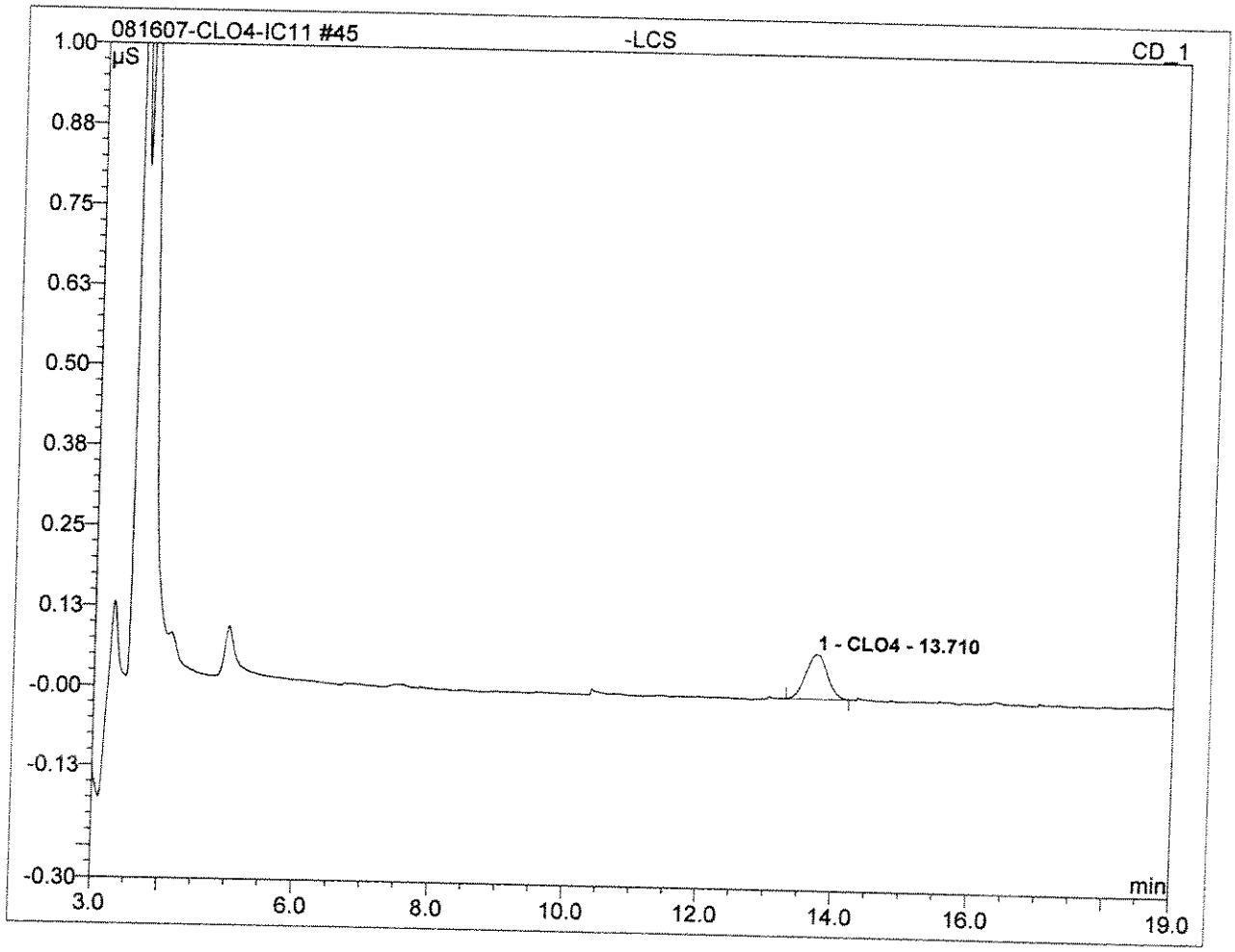


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.70	CLO4	0.011	0.004	100.00	4.398	BMB
Total:			0.011	0.004	100.00	4.398	

45 -LCS

25

Sample Name:	**-LCS**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 02:59**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

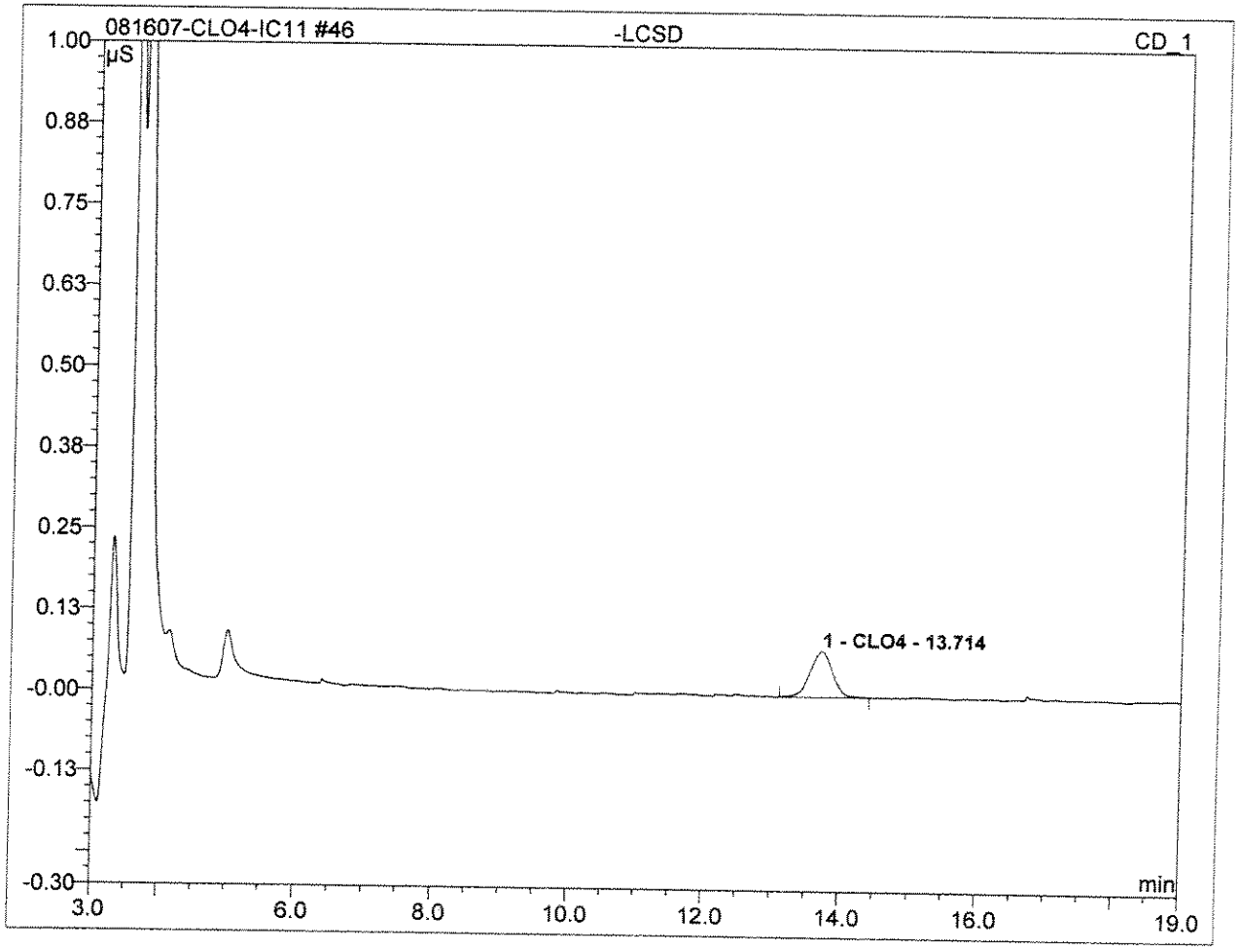


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.71	CLO4	0.070	0.026	100.00	24.377	BMB
Total:			0.070	0.026	100.00	24.377	

46 -LCSD

25

Sample Name:	**-LCSD**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 03:21**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

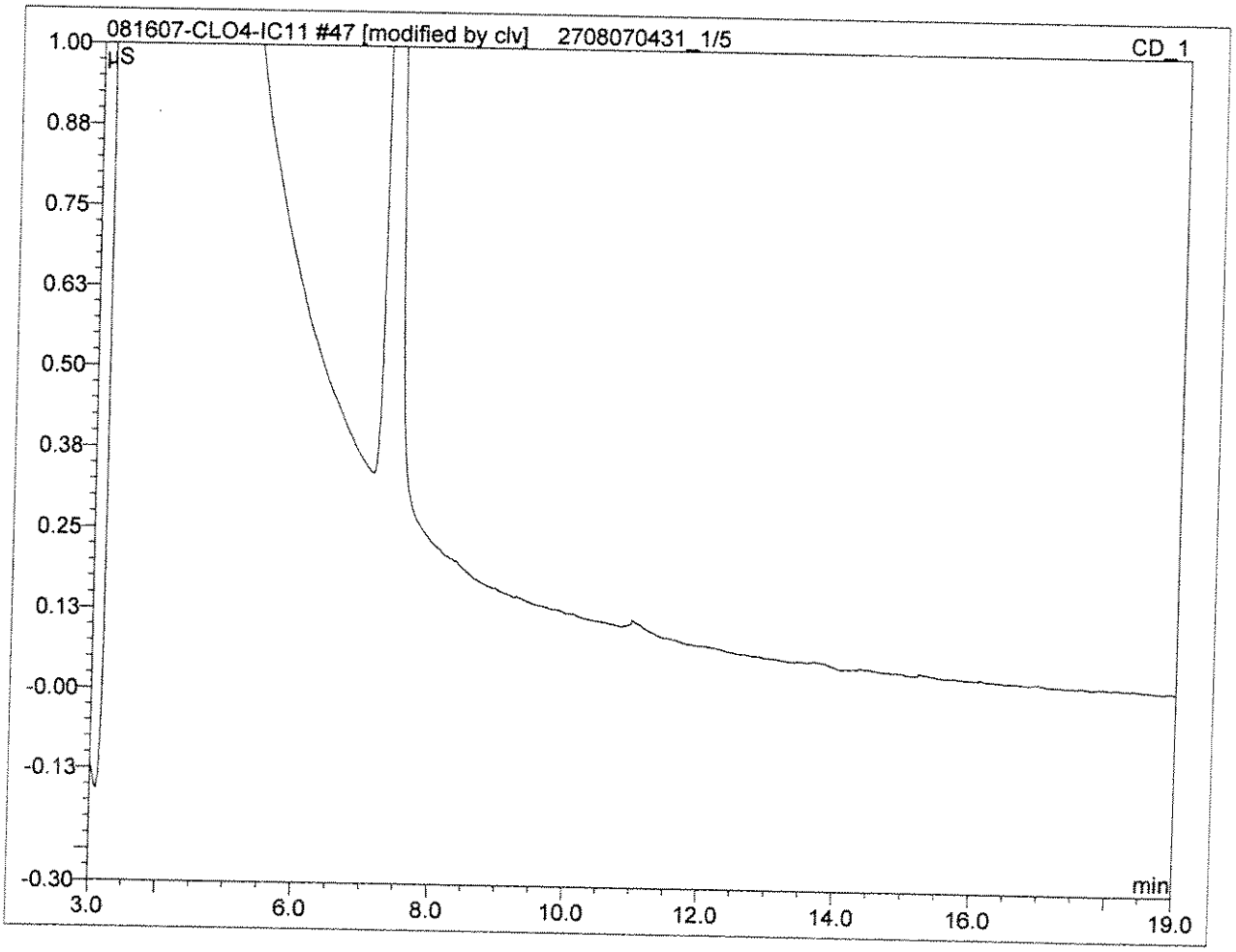


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.71	CLO4	0.071	0.027	100.00	25.887	BMB
Total:			0.071	0.027	100.00	25.887	

47 2708070431_1/5

RR

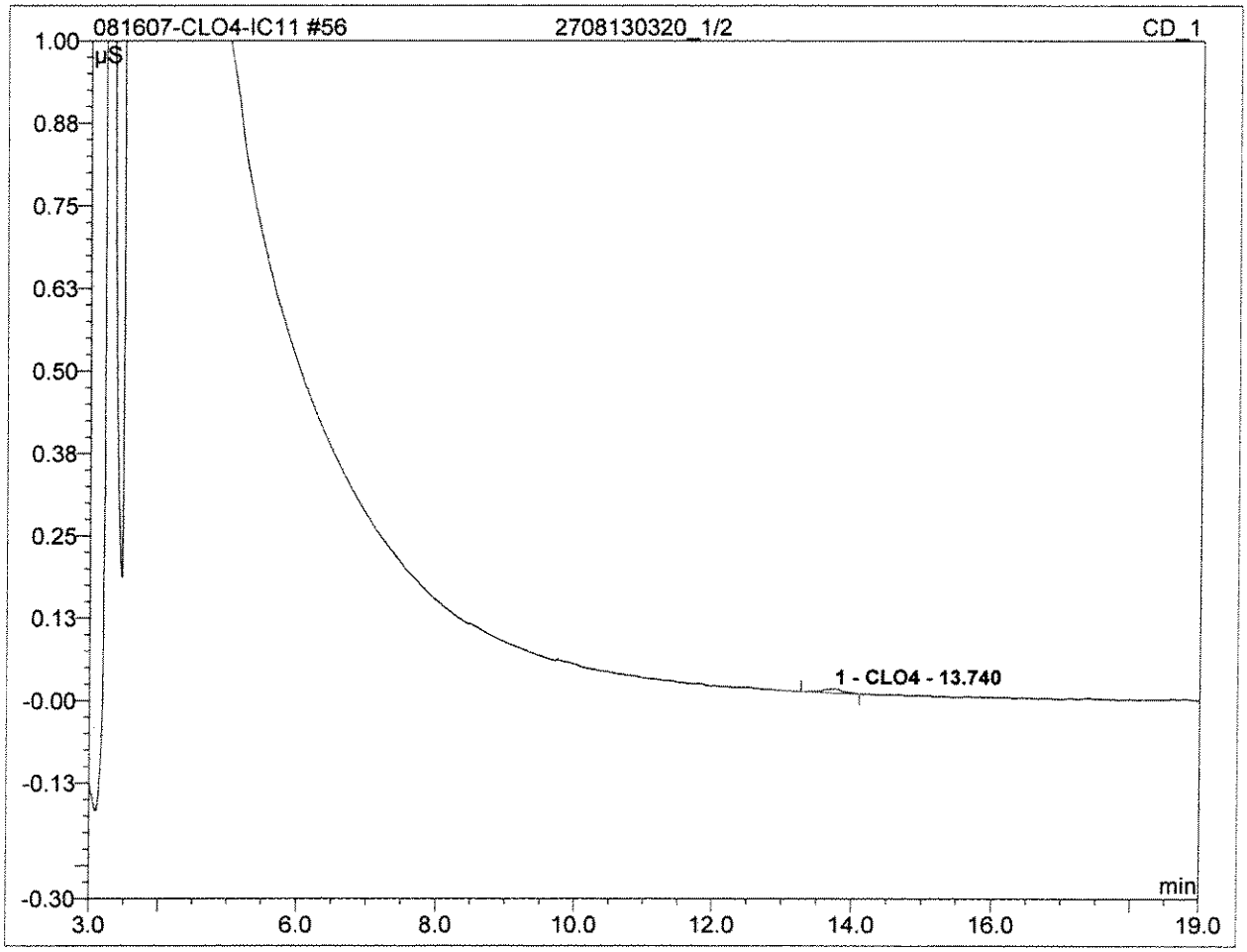
Sample Name:	**2708070431_1/5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 03:43**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**5.0000**



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

56 2708130320_1/2

Sample Name:	**2708130320_1/2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 07:05**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**2.0000**

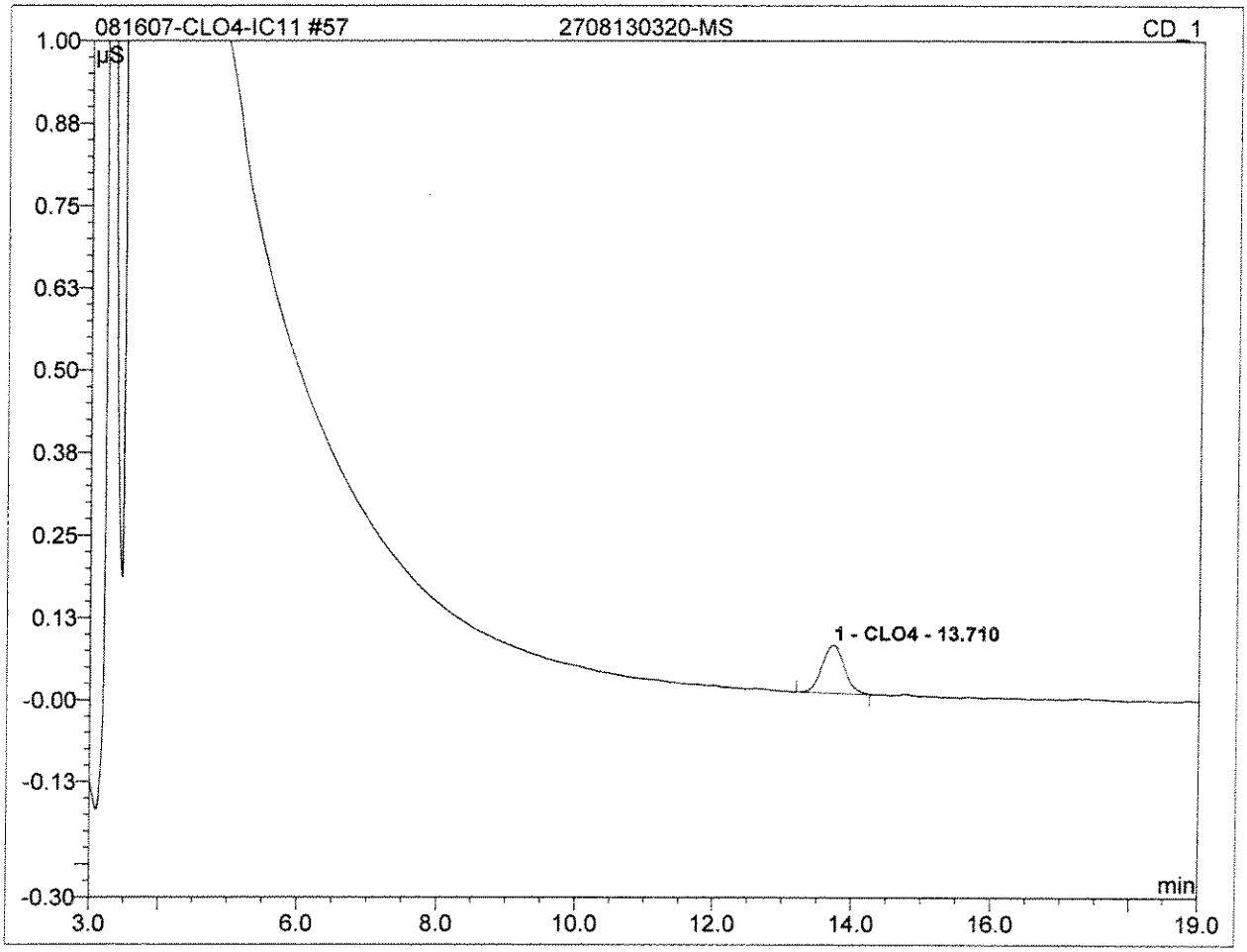


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.006	0.002	100.00	5.163	BMB
Total:			0.006	0.002	100.00	5.163	

57 2708130320-MS

25

Sample Name:	**2708130320-MS**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 07:27**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**2.0000**

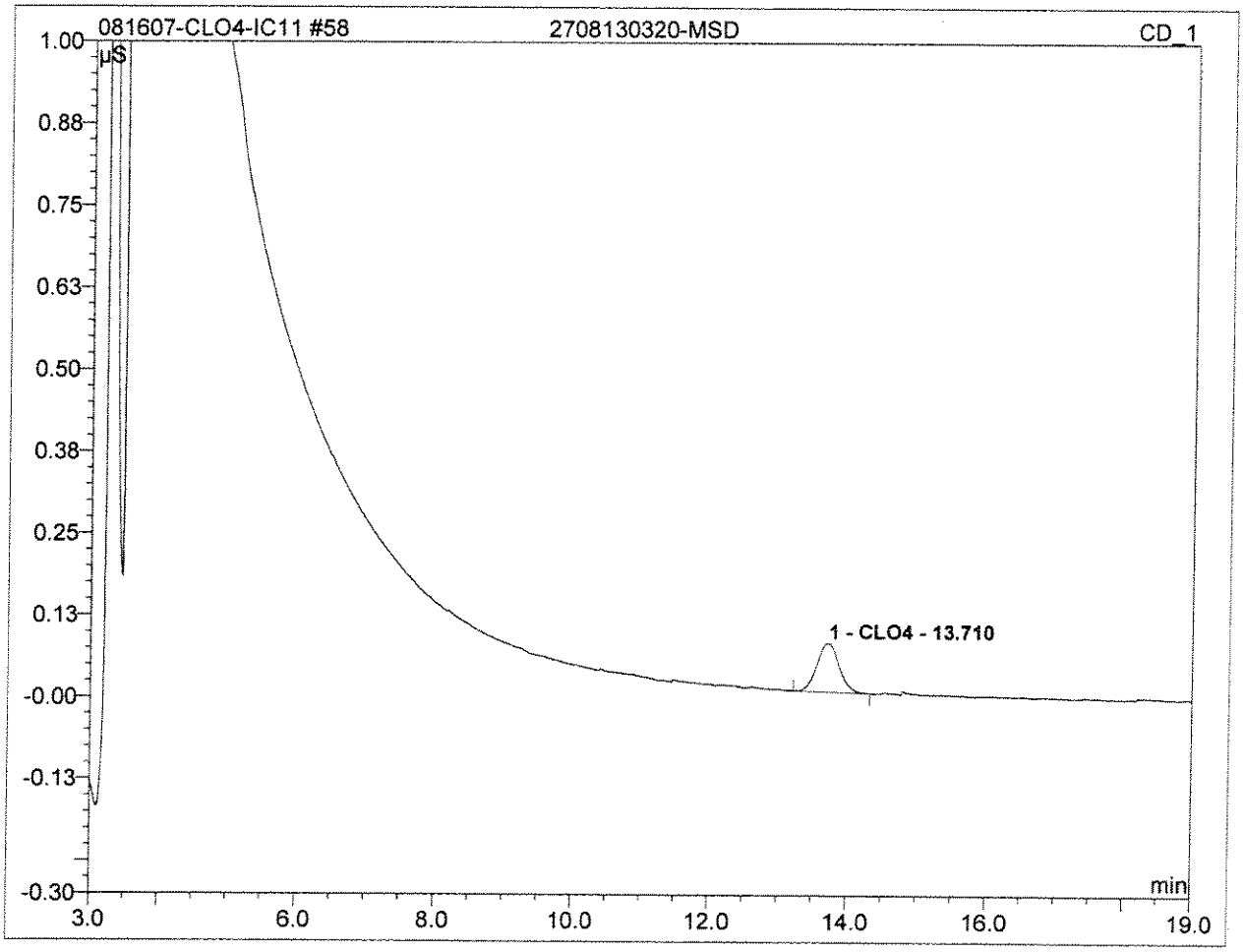


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.71	CLO4	0.073	0.027	100.00	51.878	BMB
Total:			0.073	0.027	100.00	51.878	

58 2708130320-MSD

25

Sample Name:	**2708130320-MSD**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 07:50**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**2.0000**

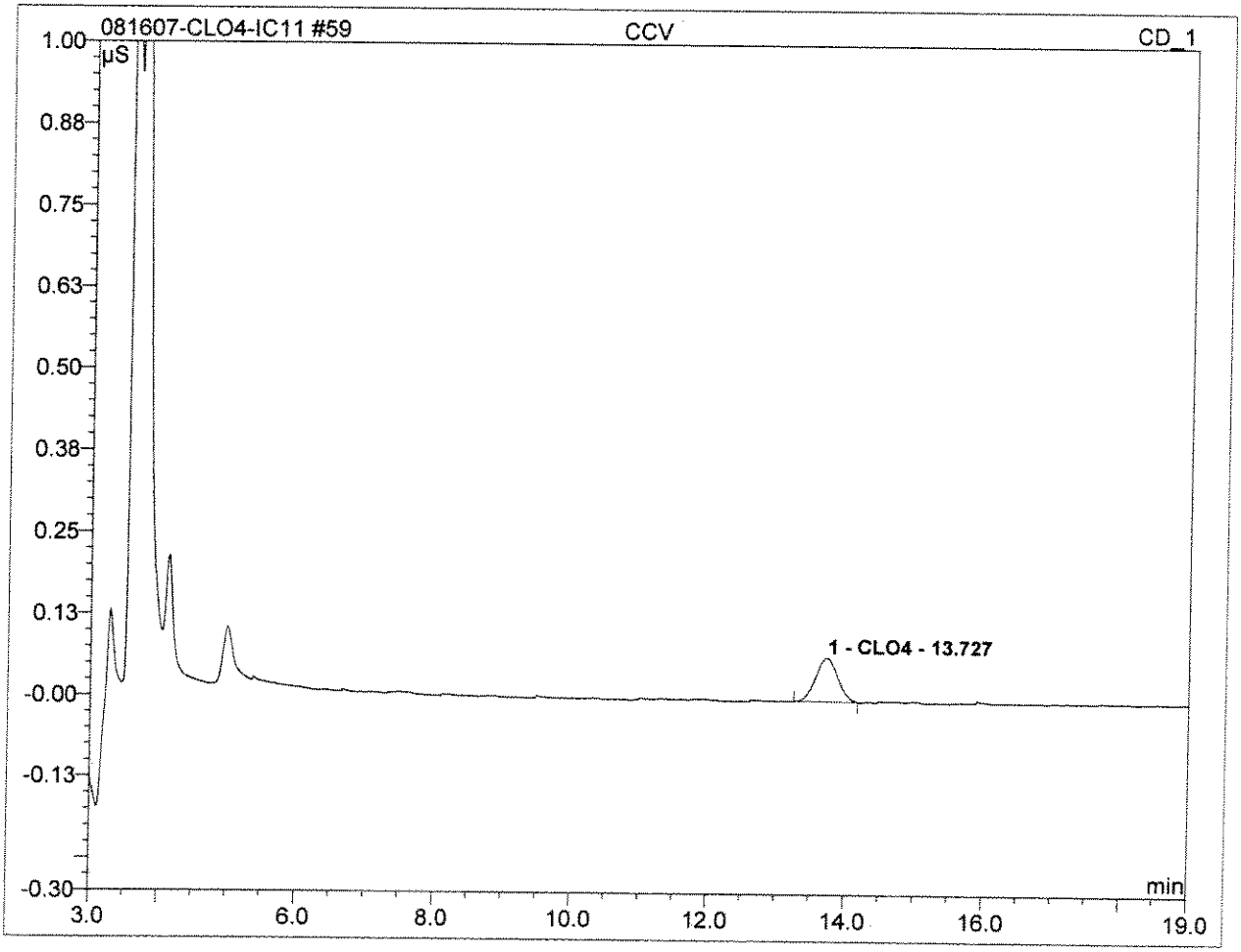


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.71	CLO4	0.074	0.028	100.00	52.382	BMB
Total:			0.074	0.028	100.00	52.382	

59 CCV

25

Sample Name:	**CCV**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 08:12**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**

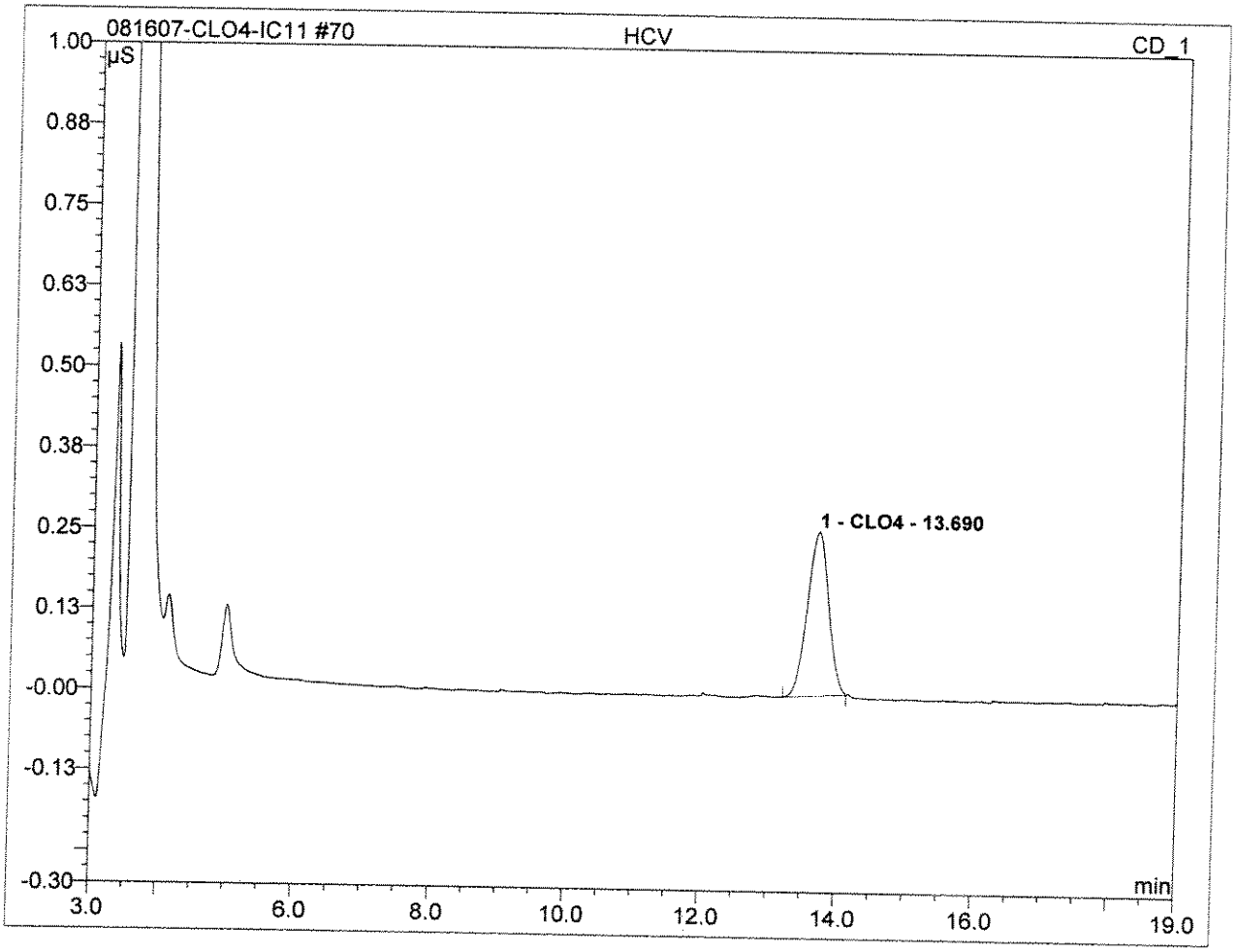


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.067	0.025	100.00	23.466	BMB
Total:			0.067	0.025	100.00	23.466	

70 HCV

100

Sample Name:	**HCV**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Control Program:*	**Perchlorate-IC11**
Recording Time:	**08/17/2007 12:19**	*Quantif. Method:*	**IC#4-CLO4-LOW**
Analyst:	**clv**	*Dilution Factor:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.69	CLO4	0.254	0.092	100.00	95.260	BMB
Total:			0.254	0.092	100.00	95.260	

Standard Preparation Worksheet & Certificate of Analysis

Reagent Preparation Documentation

Reagent: DBP LCS Stock Solution
Date Received/Prepped: 082706/100106/110106/111606/122006/010807/020607
Date Expired: 092706/110106/120106/121606/012007/020807/030607
Manufacturer:
Storage Condition:

MW #: Raja060827-1
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
Chlorite 1000ppm Exp:- 03-24-07	1000 µL → Add 50 µL of EDA (LMR060129-12) the dilute to 100 ml with Raja D.I. water	R201401	10ppm
Chlorate 1000ppm Exp:- 05-31-09	1000 µL	R201400	10ppm
Bromide Exp:- 10-27-07	500 µL	R201369	5ppm

Comment:

Reagent: DBP LCS Solution
Date Received/Prepped: 082706/100106/110106/111606/122006/010807/020607
Date Expired: 092706/110106 Raja/120106/121606/012007/020807/030607
Manufacturer:
Storage Condition:

MW #: Rajao60827-2
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
DBP LCS Stock soln	2ml → Dilute with D.I. water to 100ml	Rajao60827-1	ClO_2^- - 200ppb
EDA Solution	50 µL		ClO_3^- - 200ppb
		LMR060129-12	Br^- - 100ppb

Comment: Prepd:-
Expired:-

Reagent: Perchlorate Calibration Stock Solution
Date Received/Prepped: 091306/101106/113006/121207/~~022607~~ RE 022607
Date Expired: 121306/011107/023007/042107/~~052607~~ RE 052607
Manufacturer:
Storage Condition:

MW #: Rajao60913-1
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
Perchlorate 1000ppm Exp:- 012809	100 µL → Dilute with D.I water to 100ml	R201449	1000ppb
	MS / MSD		

Comment: 030407/042707/051407/061207/
060407/072707/081407/091207/

Reagent Preparation Documentation

Reagent: ClO_4 Calibration Standard #1
Date Received/Prepped: 091306/101106/113006/122106/~~012207~~ 122807
Date Expired: 121306/011107/023007/042107/~~052407~~ 052207
Manufacturer:
Storage Condition:

MW #: Raja060913-2
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
ClO_4 Cal. Stock soln	200 µL → Dilute to 100ml with D.I water	Raja060913-1	2.0 ppb

Comment: 030407/042707/051607/061207/
060407/072707/081607/091207/

Reagent: ClO_4 Calibration Standard #2
Date Received/Prepped: 091306/101106/113006/122106/~~012207~~ 122807
Date Expired: 121306/011107/023007/042107/~~052407~~ 052207
Manufacturer:
Storage Condition:

MW #: Raja060913-3
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
ClO_4 Cal. Stock Soln	400 µL → Raise to 100ml with D.I water	Raja060913-1	4.0 ppb

Comment: 030407/042707/051607/061207/
060407/072707/081607/091207/

Reagent: ClO_4 Calibration Standard #3
Date Received/Prepped: 091306/101106/113006/122106/~~012207~~ 122807
Date Expired: 121306/011107/023007/042107/~~052407~~ 052207
Manufacturer:
Storage Condition:

MW #: Raja060913-4
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
ClO_4 Cal. Stock Soln	1ml → Dilute to 100ml with D.I. water	Raja060913-1	10.0 ppb

Comment: 030407/042707/051607/061207/
060407/072707/081607/091207/

Reagent Preparation Documentation

Reagent: ClO4 Calibration Standard #4
Date Received/Prepped: 091306/101106/113006/012107/022807/035407
Date Expired: 121306/011107/023007/042107/052807/060407
Manufacturer:
Storage Condition:

MW #: Raja060913-5
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
ClO4 cal. Stock Sol'n	2.5 ml → Dilute to 100 ml with D.I. water	Raja060913-1	25.0 ppb

Comment: 042707/051607/061207/072707/071607/091207/

Reagent: ClO4 Calibration Standard #5
Date Received/Prepped: 091306/101106/113006/012107/022807/035407
Date Expired: 121306/011107/023007/042107/052807/060407
Manufacturer:
Storage Condition:

MW #: Raja060913-6
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
ClO4 cal. Stock Sol'n	5.0 ml → Dilute to 100 ml with D.I. water	Raja060913-1	50.0 ppb

Comment: 042707/051607/072707/071607/

Reagent: ClO4 Calibration Standard #6
Date Received/Prepped: 091306/101106/113006/012107/022807/035407
Date Expired: 121306/011107/023007/042107/052807/060407
Manufacturer:
Storage Condition:

MW #: Raja060913-7
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
ClO4 cal. Stock Sol'n	10.0 ml → Dilute to 100 ml with D.I. water	Raja060913-1	100 ppb

Comment: 042707/051607/061207/072707/071607/091207/

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CERTIFIED WEIGHT REPORT:

Part Number: 57001
Lot Number: 072806
Description: Perchlorate
Expiration Date: 072809
Nominal Concentration (µg/mL): 1000

R201449

Solvent(s): Lot # 072806 ASTM Type 1 Water

Formulated By: Lawrence Barry 072806
Reviewed By: Pedro L. Rentas 072806

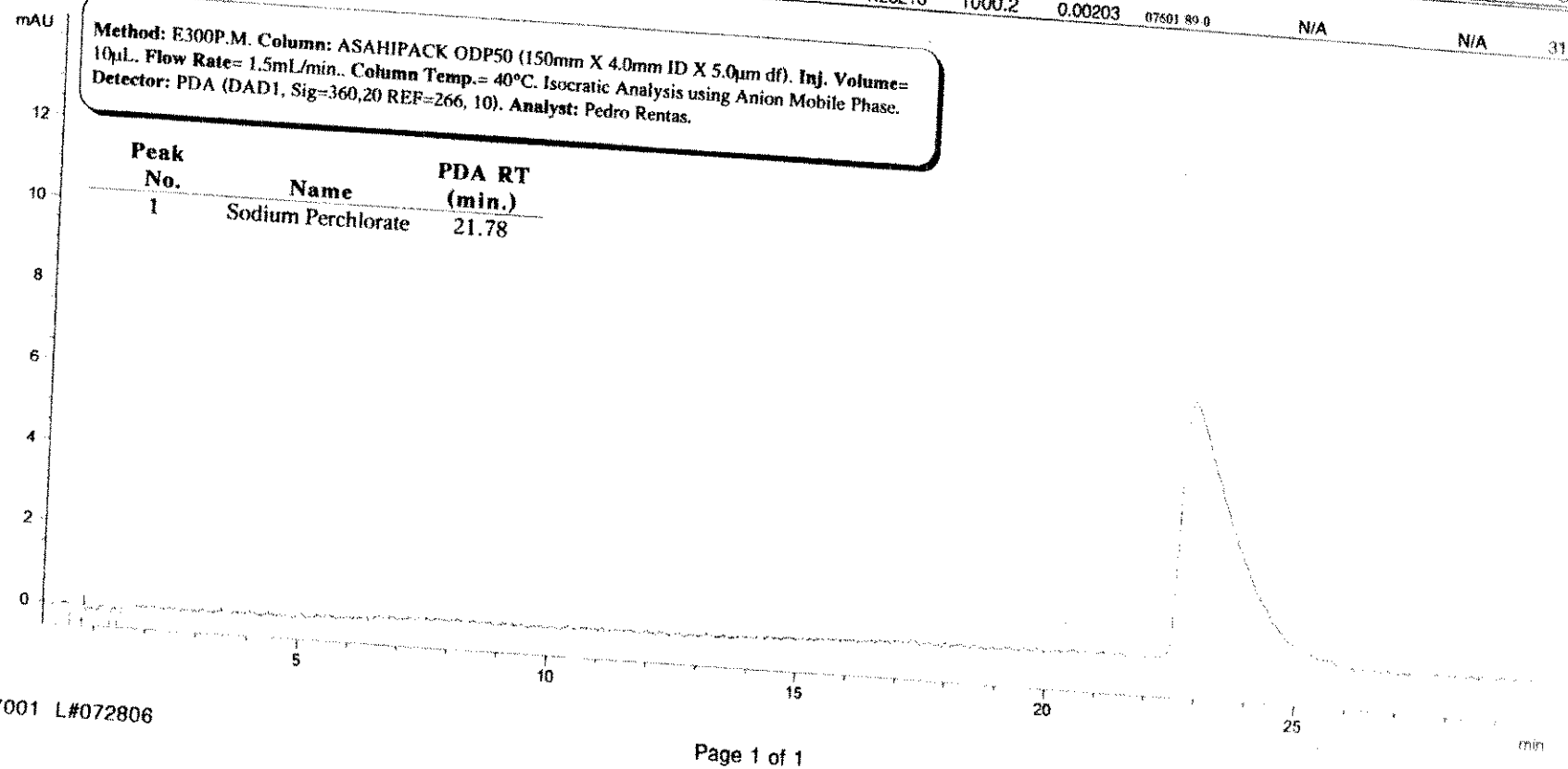
Weight(s) shown below were combined and diluted to (mL): 1000.55 5E-05 Balance Uncertainty 0.084 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity	Uncertainty Purity	Assay (%)	Target Weight(g)	Actual Weight(g)	*Actual Conc (µg/mL)	Expanded Uncertainty (+/-)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium Perchlorate (ClO4)	IN119	AR06730TQ	1000.0	99.0	0.10	81.2	1.2319	1.23216	1000.2	0.00203	07601 89 0	N/A	N/A	3152a

MSDS Information (Solvent Safety Info. On Attached pg.)

Method: E300P.M. **Column:** ASAHIPACK ODP50 (150mm X 4.0mm ID X 5.0µm df). **Inj. Volume=** 10µL. **Flow Rate=** 1.5mL/min.. **Column Temp.=** 40°C. Isocratic Analysis using Anion Mobile Phase. **Detector:** PDA (DAD1, Sig=360,20 REF=266, 10). **Analyst:** Pedro Rentas.

Peak No.	Name	PDA RT (min.)
1	Sodium Perchlorate	21.78



P#57001 L#072806

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