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Level IV Data Package

MWH Group 242355

Method: EPA 300

2805280375
2805280376

ANIONS QC Checklist
(CHLORIDE, NITRITE, NITRATE & SULFATE)

Analysis Date: 5/28/08 Analyst: SXK QC'd by [illegible] Date 13Jun08

Instrument: IC3

Calibration including LCS/LCSD(Secondary Source)

✓ LCS/LCSD recovery is within 90% - 110% to verify that the calibration curve still holds.

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

Initial QC Check (HCV2, HCV1, MCV, CCB, LOWRL, MRL,MBLANK,) to be analyzed with every batch (up to 20 samples) or part thereof

✓ MBLANK is analyzed before samples. Anions, if present, should be < or = half of the MRL (LOWRL or MRL).

✓ *LOWRL & MRL are within 50% - 150%*

✓ *HCV2, HCV1, MCV, LCS & LCSD are within 90% - 110%*

	CL	NO2-N	NO3	SO4
HCV2	80 (72 – 88)	8 (7.2 – 8.8)	8 (7.2 – 8.8)	160 (144 – 176)
HCV1	50 (45 – 55)	5 (4.5 – 5.5)	5 (4.5 – 5.5)	100 (90 – 110)
MCV	20 (18 – 22)	2 (1.8 – 2.2)	2 (1.8 – 2.2)	40 (36 – 44)
LOWRL	0.125	0.0125 (0.006 – 0.018)	0.0125 (0.006 – 0.018)	0.250 (0.125 – 0.375)
MRL	0.50 (0.25 – 0.75)	0.050 (0.025 – 0.075)	0.050 (0.025 – 0.075)	1.00 (0.50 – 1.50)
LCS/LCSD	25 (22.5 – 27.5)	1.00 (0.90 – 1.10)	2.50 (2.25 – 2.75)	50 (45 – 55)

MS/MSD: Acceptance criteria for : CL=74%-126% NO2-N=78-135% NO3=80%-112% SO4=83%-115%

✓ RPD between MS/MSD is within 10%

✓ One MS per 10 samples, one MSD per 20 samples or part thereof

VB: MMG/10/08

Continuing Calibration Verification

✓ Verification checks alternate between mid-(MCV) and high- (HCV) levels during the analysis.

✓ Blank analyzed after each MCV and HCV

Samples

✓ All samples should be unpreserved

✓ Samples for nitrate and nitrite are analyzed within 48 hours of collection.

✓ Samples for chloride and sulfate are analyzed within 28 days of collection.

QIR

✓ QIR needed for failed QC

✓ QIR needed for samples analyzed outside of hold time

MG NO3-LOW1

SO4-LOW1

NO39056

CL-LF

SO4-LF

Change MDL for NO2-N & NO3 to 0.0125 for samples diluted more than 10X.

Misc

Any sample with result above the MCL, inform the project manager

✓ for NO2-N, MCL = 1 ppm ✓ for NO3, MCL = 10 ppm

Received by Supervisor on 29-may-2008
QIR initiated by: sxk

QUALITY INVESTIGATION REPORT **QIR No.:** INOR_242415

Analysis date: 052908
Analyst: sxk
Method reference: ML-EPA 300
Analytical instrument: INIC
Extraction Date: NA
Prepared By: NA

Group	Sample#	Sample ID	Customer	QC Ref	Test	PM
242355	2805280375	EFFLUENT	KERRMCGEE-MP	429184	NO2-N	ADE
242355	2805280376	INFLUENT	KERRMCGEE-MP	429184	NO2-N	ADE

Brief Description:(include reason for non-compliance-Root Cause)

Single MS recovery for 2805280105 was 71.3% for NO2-N. Recovery falls below the acceptable range of 78%-135%. MS/MSD recoveries for 2805280091 were 90.8%/93.1%. LCS/LCSD recoveries for the analyte listed above were 91.6%/91.2%, which is within 90-110% specified limits. CL result was well within the calibration range and did not interfere with NO2-N peak.

Corrective Action Taken/Prevention:

Results reported. Most likely the cause of low recovery is due to the misspike by the analyst. Remaining analytes have recoveries of 101%-105% No flag required as suspect sample is not scheduled for NO2-N analysis.

Impact on Data Quality:

No impact to data quality as suspect sample does not require NO2-N. Precision for the batch is assessed from LCS/LCSD or MS/MSD pair.
LIMS user:lmr Date/time stamp:01-jun-2008 10:53:48

Data Disposition/Acceptable/Method/Regulations:

Data acceptable for compliance based on passing LCSs and other MS/MSD. Native sample with low 2nd MS recovery was not scheduled for this analysis. Report data with batch comment.
LIMS user:yyc Date/time stamp:02-jun-2008 11:47:01

Client Contact:

ok to report
LIMS user:ade Date/time stamp:02-jun-2008 12:52:35

Detail Report for QIR group# 242415

Group	Sample#	Sample ID	Customer	QC Ref	Test	Analyst	Analysis Date	Prep	Prep Date	Inst
242355	2805280375	EFFLUENT	KERRMCGEE-MP	429184	NO2-N	sxk	05/29/08 02:06			INIC
242355	2805280376	INFLUENT	KERRMCGEE-MP	429184	NO2-N	sxk	05/29/08 02:20			INIC

Batch# 429184 NO2-N

Analyte	QC	Actual	Found	Lower	Yield	Upper	Statu
Nitrite, Nitrogen by IC	LCS1	1.0	0.917	90.0	91.7	110.0	OK
Nitrite, Nitrogen by IC	LCS2	1.0	0.913	90.0	91.3	110.0	OK
Nitrite, Nitrogen by IC	MBLK	ND	ND	0.0		0.0	OK
Nitrite, Nitrogen by IC	MRL_CHK	0.050	0.046	50.0	93.0	150.0	OK
Nitrite, Nitrogen by IC	MS	0.500	0.454	78.0	90.8	135.0	OK
Nitrite, Nitrogen by IC	MSD	0.500	0.466	78.0	93.2	135.0	OK
Nitrite, Nitrogen by IC	RPD_LCS	91.70	91.30	0.0	0.44	20.0	OK
Nitrite, Nitrogen by IC	RPD_MS	90.80	93.20	0.0	2.61	20.0	OK

SUMMARY SHEET

File ID: 052808AN
Date Started: 05/13/08
Analyst ID: sxk

SAMPLE ID

autocal1	(10:55)	autocal2	(11:09)	autocal3	(11:24)
autocal4	(11:38)	autocal5	(11:51)	autocal6	(12:05)
autocal7	(12:19)	autocal8	(12:32)	autocal9	(12:46)
autocal10	(13:00)	autocal11	(13:13)	20 PPM	(08:34)
autocal1	(09:30)	autocal2	(09:44)	autocal3	(09:57)
autocal4	(10:11)	autocal5	(10:25)	autocal6	(10:38)
autocal7	(10:52)	autocal8	(11:05)	autocal9	(11:19)
autocal10	(11:33)	autocal11	(11:46)	autocal1	(12:28)
autocal11	(12:42)	20 PPM	(12:55)	LOWRL	(14:03)
2805270506_1	(15:12)	2805270455_1	(15:25)	2805270467_1	(15:39)
2805270468_1	(15:53)	2805270461_1	(16:06)	2805270451_1	(16:20)
2805270534_1	(16:34)	2805270504_1	(16:47)	2805270503_1	(17:01)
2805270466	(17:14)	2805270552	(18:23)	2805270553	(18:36)
2805270549	(18:50)	2805270551	(19:04)	2805270550_1	(19:17)
2805270556_1	(19:31)	2805270557_1	(19:44)	2805270558_1	(19:58)
2805270554_1	(20:12)	2805270555	(20:25)	LOWRL	(21:47)
2805280378	(22:55)	2805280392	(23:09)	2805280100	(23:22)
2805280107	(23:36)	2805290128	(23:50)	2805290130	(00:03)
2805280097	(00:17)	2805280095	(00:31)	2805280096	(00:44)
2805280091	(00:58)	2805280375_1	(02:06)	2805280376_1	(02:20)
2805280099_1	(02:33)	2805280104_1	(02:47)	2805280106	(03:01)
2805280093	(03:14)	2805280094	(03:28)	2805280102	(03:42)
2805280108	(03:55)	2805280105	(04:09)		()

COMMENT:

Analyst: SXK

Approved By: m

File ID: 052808AN RUN - LOG

Sample ID	Date	Time	Dil
autocal1	05/13/08	10:55	1
autocal2	05/13/08	11:09	1
autocal3	05/13/08	11:24	1
autocal4	05/13/08	11:38	1
autocal5	05/13/08	11:51	1
autocal6	05/13/08	12:05	1
autocal7	05/13/08	12:19	1
autocal8	05/13/08	12:32	1
autocal9	05/13/08	12:46	1
autocal10	05/13/08	13:00	1
autocal11	05/13/08	13:13	1
20 PPM	05/28/08	08:34	1
HCV2	05/28/08	08:47	1
HCV1	05/28/08	09:01	1
MCV	05/28/08	09:15	1
autocal1	05/28/08	09:30	1
autocal2	05/28/08	09:44	1
autocal3	05/28/08	09:57	1
autocal4	05/28/08	10:11	1
autocal5	05/28/08	10:25	1
autocal6	05/28/08	10:38	1
autocal7	05/28/08	10:52	1
autocal8	05/28/08	11:05	1
autocal9	05/28/08	11:19	1
autocal10	05/28/08	11:33	1
autocal11	05/28/08	11:46	1
autocal1	05/28/08	12:28	1
autocal11	05/28/08	12:42	1
20 PPM	05/28/08	12:55	1
HCV2	05/28/08	13:09	1
HCV1	05/28/08	13:23	1
MCV	05/28/08	13:36	1
CCB	05/28/08	13:50	1
LOWRL	05/28/08	14:03	1
MRL	05/28/08	14:17	1
MBLK	05/28/08	14:31	1
LCS	05/28/08	14:45	1
LCSD	05/28/08	14:58	1
2805270506_1/2	05/28/08	15:12	2
2805270455_1/2	05/28/08	15:25	2
2805270467_1/2	05/28/08	15:39	2
2805270468_1/2	05/28/08	15:53	2
2805270461_1/2	05/28/08	16:06	2
2805270451_1/2	05/28/08	16:20	2
2805270534_1/2	05/28/08	16:34	2
2805270504_1/2	05/28/08	16:47	2
2805270503_1/2	05/28/08	17:01	2
2805270466_	05/28/08	17:14	2
2805270466MS	05/28/08	17:28	2

File ID: 052808AN RUN - LOG

Sample ID	Date	Time	Dil
2805270466MSD	05/28/08	17:42	2
MCV	05/28/08	17:55	1
CCB	05/28/08	18:09	1
2805270552	05/28/08	18:23	1
2805270553	05/28/08	18:36	1
2805270549	05/28/08	18:50	1
2805270551	05/28/08	19:04	1
2805270550_1/2	05/28/08	19:17	2
2805270556_1/2	05/28/08	19:31	2
2805270557_1/2	05/28/08	19:44	2
2805270558_1/2	05/28/08	19:58	2
2805270554_1/2	05/28/08	20:12	2
2805270555	05/28/08	20:25	1
2805270555MS	05/28/08	20:39	1
HCV2	05/28/08	20:53	1
HCV1	05/28/08	21:06	1
MCV	05/28/08	21:20	1
CCB	05/28/08	21:33	1
LOWRL	05/28/08	21:47	1
MRL	05/28/08	22:01	1
MBLK	05/28/08	22:14	1
LCS	05/28/08	22:28	1
LCSD	05/28/08	22:42	1
2805280378	05/28/08	22:55	1
2805280392	05/28/08	23:09	1
2805280100	05/28/08	23:22	1
2805280107	05/28/08	23:36	1
2805290128	05/28/08	23:50	1
2805290130	05/29/08	00:03	1
2805280097	05/29/08	00:17	1
2805280095	05/29/08	00:31	1
2805280096	05/29/08	00:44	1
2805280091	05/29/08	00:58	1
2805280091MS	05/29/08	01:12	1
2805280091MSD	05/29/08	01:25	1
MCV	05/29/08	01:39	1
CCB	05/29/08	01:52	1
2805280375_1/25	05/29/08	02:06	25
2805280376_1/25	05/29/08	02:20	25
2805280099_1/2	05/29/08	02:33	2
2805280104_1/2	05/29/08	02:47	2
2805280106	05/29/08	03:01	1
2805280093	05/29/08	03:14	1
2805280094	05/29/08	03:28	1
2805280102	05/29/08	03:42	1
2805280108	05/29/08	03:55	1
2805280105	05/29/08	04:09	1
2805280105MS	05/29/08	04:22	1
HCV2	05/29/08	04:36	1
HCV1	05/29/08	04:50	1

File ID: 052808AN RUN - LOG

Sample ID	Date	Time	Dil
CCB	05/29/08	05:03	10

BATCH NUMBER for 052808AN

Test Parameter:

CL NO2-N NO3 SO4 NO3A

Batch ID: 2805270466

2805270506_1/2	2805270455_1/2	2805270467_1/2
2805270468_1/2	2805270461_1/2	2805270451_1/2
2805270534_1/2	2805270504_1/2	2805270503_1/2
2805270466	2805270552	2805270553
2805270549	2805270551	2805270550_1/2
2805270556_1/2	2805270557_1/2	2805270558_1/2
2805270554_1/2	2805270555	

Batch ID: 2805280091

2805280378	2805280392	2805280100
2805280107	2805290128	2805290130
2805280097	2805280095	2805280096
2805280091	2805280375_1/25	2805280376_1/25
2805280099_1/2	2805280104_1/2	2805280106
2805280093	2805280094	2805280102
2805280108	2805280105	

File ID: 052808AN NO3

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
autocal1	05/13/08	10:55	1	0	ND		
autocal2	05/13/08	11:09	1	.01962328	ND		
autocal3	05/13/08	11:24	1	.02761749	ND		
autocal4	05/13/08	11:38	1	.04721009	ND		
autocal5	05/13/08	11:51	1	9.440697000000001D-02	.1		
autocal6	05/13/08	12:05	1	.18590	0.19		
autocal7	05/13/08	12:19	1	.42981	0.43		
autocal8	05/13/08	12:32	1	.93150	0.93		
autocal9	05/13/08	12:46	1	2.2508	2.3		
autocal10	05/13/08	13:00	1	4.6121	4.6		
autocal11	05/13/08	13:13	1	9.1778	9.2		
20 PPM	05/28/08	08:34	1	19.989	20		
HCV2	05/28/08	08:47	1	8.0198	8.02	90-110	100%
HCV1	05/28/08	09:01	1	5.0309	5.03	90-110	100%
MCV	05/28/08	09:15	1	0	ND	90-110	0%
autocal1	05/28/08	09:30	1	.006930555	ND		
autocal2	05/28/08	09:44	1	.01715	ND		
autocal3	05/28/08	09:57	1	.02613277	ND		
autocal4	05/28/08	10:11	1	.05171357	.1		
autocal5	05/28/08	10:25	1	.09883565	.1		
autocal6	05/28/08	10:38	1	.19577	0.20		
autocal7	05/28/08	10:52	1	.45079	0.45		
autocal8	05/28/08	11:05	1	.98008	0.98		
autocal9	05/28/08	11:19	1	2.4953	2.5		
autocal10	05/28/08	11:33	1	5.0178	5.0		
autocal11	05/28/08	11:46	1	9.9846	10		
autocal1	05/28/08	12:28	1	0	ND		
autocal11	05/28/08	12:42	1	9.9965	10		
20 PPM	05/28/08	12:55	1	19.125	19		
HCV2	05/28/08	13:09	1	8.0328	8.03	90-110	100%
HCV1	05/28/08	13:23	1	5.0263	5.03	90-110	100%
MCV	05/28/08	13:36	1	1.9776	1.98	90-110	98.8%
CCB	05/28/08	13:50	1	0	ND		
LOWRL	05/28/08	14:03	1	.01819276	ND		
MRL	05/28/08	14:17	1	.04887657	ND	50-150	97.7%
MBLK	05/28/08	14:31	1	0	ND		
LCS	05/28/08	14:45	1	2.3864	2.39	90-110	95.4%
LCSD	05/28/08	14:58	1	2.3781	2.38	90-110	95.1%
2805270506_1/2	05/28/08	15:12	2	6.9656	7.0		
2805270455_1/2	05/28/08	15:25	2	5.3613	5.4		

File ID: 052808AN

NO3

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
2805270467_1/2	05/28/08	15:39	2	6.9822	7.0		
2805270468_1/2	05/28/08	15:53	2	4.4424	4.4		
2805270461_1/2	05/28/08	16:06	2	5.4374	5.4		
2805270451_1/2	05/28/08	16:20	2	5.4192	5.4		
2805270534_1/2	05/28/08	16:34	2	5.3317	5.3		
2805270504_1/2	05/28/08	16:47	2	1.0254	1.0		
2805270503_1/2	05/28/08	17:01	2	1.5067	1.5		
2805270466	05/28/08	17:14	2	5.2022	5.2		
2805270466MS	05/28/08	17:28	2	7.6668	7.67	[~~2.465~~]	98.5%
2805270466MSD	05/28/08	17:42	2	7.6096	7.61	[2.407]	96.2%
2805270466T	05/28/08	17:42	2		2.50	80 - 112	
MCV	05/28/08	17:55	1	1.9922	1.99	90-110	99.6%
CCB	05/28/08	18:09	1	0	ND		
2805270552	05/28/08	18:23	1	2.8539	2.9		
2805270553	05/28/08	18:36	1	1.3738	1.4		
2805270549	05/28/08	18:50	1	4.9432	4.9		
2805270551	05/28/08	19:04	1	3.2415	3.2		
2805270550_1/2	05/28/08	19:17	2	.80748	0.81		
2805270556_1/2	05/28/08	19:31	2	2.7386	2.7		
2805270557_1/2	05/28/08	19:44	2	4.4013	4.4		
2805270558_1/2	05/28/08	19:58	2	2.4099	2.4		
2805270554_1/2	05/28/08	20:12	2	19.375	19		
2805270555	05/28/08	20:25	1	.006783177	ND		
2805270555MS	05/28/08	20:39	1	1.4535	1.45	[1.447]	115 Q
HCV2	05/28/08	20:53	1	7.9068	7.91	90-110	98.8%
HCV1	05/28/08	21:06	1	4.9599	4.96	90-110	99.1%
MCV	05/28/08	21:20	1	1.9641	1.96	90-110	98.2%
CCB	05/28/08	21:33	1	0	ND		
LOWRL	05/28/08	21:47	1	.01831015	ND		
MRL	05/28/08	22:01	1	.04974397	ND	50-150	99.4%
MBLK	05/28/08	22:14	1	0	ND		
LCS	05/28/08	22:28	1	2.4180	2.42	90-110	96.7%
LCSD	05/28/08	22:42	1	2.3858	2.39	90-110	95.4%
2805280378	05/28/08	22:55	1	.07502348	.1		
2805280392	05/28/08	23:09	1	.04809236	ND		
2805280100	05/28/08	23:22	1	.47828	0.48		
2805280107	05/28/08	23:36	1	2.6093	2.6		
2805290128	05/28/08	23:50	1	1.3151	1.3		
2805290130	05/29/08	00:03	1	.37112	0.37		
2805280097	05/29/08	00:17	1	.42900	0.43		
2805280095	05/29/08	00:31	1	.64523	0.65		

+/=1.25

1.2325

1.2035

QR

File ID: 052808AN NO3

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
2805280096	05/29/08	00:44	1	.33432	0.33		
2805280091	05/29/08	00:58	1	3.8163	3.8		
2805280091MS	05/29/08	01:12	1	5.0218	5.02	[1.206]	96.4%
2805280091MSD	05/29/08	01:25	1	5.0659	5.07	[1.250]	99.9%
2805280091T	05/29/08	01:25	1		1.25	80 - 112	
MCV	05/29/08	01:39	1	1.9670	1.97	90-110	98.3%
CCB	05/29/08	01:52	1	0	ND		
2805280375_1/25	05/29/08	02:06	25	0	ND		
2805280376_1/25	05/29/08	02:20	25	13.456	13		
2805280099_1/2	05/29/08	02:33	2	5.0097	5.0		
2805280104_1/2	05/29/08	02:47	2	4.9392	4.9		
2805280106	05/29/08	03:01	1	3.5324	3.5		
2805280093	05/29/08	03:14	1	1.5460	1.5		
2805280094	05/29/08	03:28	1	1.6736	1.7		
2805280102	05/29/08	03:42	1	1.1996	1.2		
2805280108	05/29/08	03:55	1	1.5702	1.6		
2805280105	05/29/08	04:09	1	1.1630	1.2		
2805280105MS	05/29/08	04:22	1	2.4864	2.49	[1.323]	105%
HCV2	05/29/08	04:36	1	7.9615	7.96	90-110	99.5%
HCV1	05/29/08	04:50	1	4.9806	4.98	90-110	99.6%
CCB	05/29/08	05:03	1	0	ND		
			0	N/A	ND		

N=1.25

No.,	Sample Name,	Time,	Dil.Fac.,	Amount, CL, ECD_1,	Amount, NO2-N, ECD_1,	Amount, NO3, ECD_1,	Amount , SO4, ECD_1,
1,	autocal1,	05/13/08 10:55,	1.0,	0.030833836,	n.a.,	n.a.,	0.05707488,
2,	autocal2,	05/13/08 11:09,	1.0,	0.158081086,	0.018631883,	0.0196233,	0.37871551,
3,	autocal3,	05/13/08 11:24,	1.0,	0.234122961,	0.023914679,	0.0276175,	0.51327643,
4,	autocal4,	05/13/08 11:38,	1.0,	0.399349526,	0.05080021,	0.0472101,	0.84352204,
5,	autocal5,	05/13/08 11:51,	1.0,	0.820815743,	0.096100698,	0.094407,	1.74902448,
6,	autocal6,	05/13/08 12:05,	1.0,	1.63657789,	0.181784927,	0.1859069,	3.41552464,
7,	autocal7,	05/13/08 12:19,	1.0,	3.952197797,	0.428716828,	0.4298147,	8.0480054,
8,	autocal8,	05/13/08 12:32,	1.0,	9.094227323,	0.87514481,	0.9315032,	17.6922698,
9,	autocal9,	05/13/08 12:46,	1.0,	23.10395356,	2.283593034,	2.2508032,	44.2429515,
10,	autocal10,	05/13/08 13:00,	1.0,	45.96874111,	4.741796037,	4.6121703,	92.7834915,
11,	autocal11,	05/13/08 13:13,	1.0,	83.8574702,	9.340986039,	9.1778736,	184.640342,
12,	20 PPM,	05/28/08 08:34,	1.0,	155.3553402,	n.a.,	19.989844,	377.203455,
13,	HCV2,	05/28/08 08:47,	1.0,	75.12374445,	8.022128799,	8.0198579,	161.875189,
14,	HCV1,	05/28/08 09:01,	1.0,	50.04513112,	5.030287947,	5.0309912,	101.66367,
15,	MCV,	05/28/08 09:15,	1.0,	n.a.,	n.a.,	n.a.,	n.a.,
16,	autocal1,	05/28/08 09:30,	1.0,	0.095043225,	n.a.,	0.0069306,	0.02444251,
17,	autocal2,	05/28/08 09:44,	1.0,	0.154596509,	0.014832925,	0.0171529,	0.33070499,
18,	autocal3,	05/28/08 09:57,	1.0,	0.22775895,	0.028581026,	0.0261328,	0.48535956,
19,	autocal4,	05/28/08 10:11,	1.0,	0.445386925,	0.051747338,	0.0517136,	0.94021454,
20,	autocal5,	05/28/08 10:25,	1.0,	0.844815646,	0.097684942,	0.0988356,	1.78439692,
21,	autocal6,	05/28/08 10:38,	1.0,	1.704832524,	0.189004212,	0.1957732,	3.54706947,
22,	autocal7,	05/28/08 10:52,	1.0,	4.117502619,	0.466162408,	0.4507918,	8.31306017,
23,	autocal8,	05/28/08 11:05,	1.0,	9.540161946,	0.950130801,	0.9800858,	18.4952533,
24,	autocal9,	05/28/08 11:19,	1.0,	25.57191294,	2.480455563,	2.4953818,	49.1484823,
25,	autocal10,	05/28/08 11:33,	1.0,	49.90050103,	5.036796906,	5.0178845,	101.341831,
26,	autocal11,	05/28/08 11:46,	1.0,	90.13040237,	9.983531388,	9.9846684,	199.952758,
27,	autocal1,	05/28/08 12:28,	1.0,	n.a.,	n.a.,	n.a.,	n.a.,
28,	autocal11,	05/28/08 12:42,	1.0,	90.25394264,	9.993224813,	9.9965837,	199.771137,
29,	20 PPM,	05/28/08 12:55,	1.0,	154.4145992,	n.a.,	19.12583,	376.707191,
30,	HCV2,	05/28/08 13:09,	1.0,	75.10406017,	8.025064559,	8.0328317,	161.514323,
31,	HCV1,	05/28/08 13:23,	1.0,	49.82714609,	5.040927735,	5.0263812,	101.66734,
32,	MCV,	05/28/08 13:36,	1.0,	20.06622772,	1.926109529,	1.9776669,	38.3961815,
33,	CCB,	05/28/08 13:50,	1.0,	0.017018912,	n.a.,	n.a.,	0.03640525,
34,	LOWRL,	05/28/08 14:03,	1.0,	0.148145778,	0.014587304,	0.0181928,	0.32842674,
35,	MRL,	05/28/08 14:17,	1.0,	0.405198894,	0.046537564,	0.0488766,	0.89113954,
36,	MBLK,	05/28/08 14:31,	1.0,	n.a.,	n.a.,	n.a.,	n.a.,
37,	LCS,	05/28/08 14:45,	1.0,	24.71450931,	0.90827584,	2.3864156,	48.436465,
38,	LCSD,	05/28/08 14:58,	1.0,	24.57096556,	0.909001498,	2.3781014,	48.2634856,
39,	2805270506_1/2,	05/28/08 15:12,	2.0,	15.44455548,	n.a.,	6.965621,	79.1643358,
40,	2805270455_1/2,	05/28/08 15:25,	2.0,	27.37125096,	n.a.,	5.3613167,	65.6488722,
41,	2805270467_1/2,	05/28/08 15:39,	2.0,	51.28121948,	n.a.,	6.9822129,	61.6577444,
42,	2805270468_1/2,	05/28/08 15:53,	2.0,	17.87262886,	n.a.,	4.4424965,	71.3962421,
43,	2805270461_1/2,	05/28/08 16:06,	2.0,	29.03318008,	n.a.,	5.4374481,	67.1130306,
44,	2805270451_1/2,	05/28/08 16:20,	2.0,	28.74097229,	n.a.,	5.4192122,	66.6327398,

45,	2805270534_1/2,	05/28/08 16:34,	2.0,	28.7969997,	n.a.,	5.3317229,	66.8766218,
46,	2805270504_1/2,	05/28/08 16:47,	2.0,	124.8818156,	n.a.,	1.0254363,	108.830416,
47,	2805270503_1/2,	05/28/08 17:01,	2.0,	93.07832451,	n.a.,	1.5067849,	64.6220302,
48,	2805270466,	05/28/08 17:14,	2.0,	21.56009905,	n.a.,	5.2022619,	67.7523375,
49,	2805270466MS,	05/28/08 17:28,	2.0,	46.63564203,	0.916085327,	7.6668366,	119.715327,
50,	2805270466MSD,	05/28/08 17:42,	2.0,	46.26525255,	0.897612406,	7.6096973,	119.024322,
51,	MCV,	05/28/08 17:55,	1.0,	20.23147923,	1.932356737,	1.9922755,	38.6708276,
52,	CCB,	05/28/08 18:09,	1.0,	n.a.,	n.a.,	n.a.,	n.a.,
53,	2805270552,	05/28/08 18:23,	1.0,	5.754560831,	n.a.,	2.853951,	21.9115822,
54,	2805270553,	05/28/08 18:36,	1.0,	40.72433762,	n.a.,	1.3738426,	41.2380709,
55,	2805270549,	05/28/08 18:50,	1.0,	6.60498572,	n.a.,	4.9432287,	16.4759641,
56,	2805270551,	05/28/08 19:04,	1.0,	11.09107816,	n.a.,	3.2415705,	22.67091,
57,	2805270550_1/2,	05/28/08 19:17,	2.0,	76.5961197,	n.a.,	0.8074856,	55.5787046,
58,	2805270556_1/2,	05/28/08 19:31,	2.0,	183.7556279,	n.a.,	2.7386277,	0.29057249,
59,	2805270557_1/2,	05/28/08 19:44,	2.0,	145.7390127,	n.a.,	4.4013212,	n.a.,
60,	2805270558_1/2,	05/28/08 19:58,	2.0,	169.5160032,	n.a.,	2.4099376,	1.19308053,
61,	2805270554_1/2,	05/28/08 20:12,	2.0,	12.99020275,	n.a.,	19.375875,	55.179583,
62,	2805270555,	05/28/08 20:25,	1.0,	95.00812217,	n.a.,	0.0067832,	n.a.,
63,	2805270555MS,	05/28/08 20:39,	1.0,	104.3549536,	0.40497019,	1.4535773,	28.7833099,
64,	HCV2,	05/28/08 20:53,	1.0,	73.84346137,	7.901494233,	7.9068913,	159.402522,
65,	HCV1,	05/28/08 21:06,	1.0,	49.16188053,	4.967697714,	4.9599736,	100.146631,
66,	MCV,	05/28/08 21:20,	1.0,	19.96233308,	1.936326193,	1.9641693,	38.2590156,
67,	CCB,	05/28/08 21:33,	1.0,	n.a.,	n.a.,	n.a.,	n.a.,
68,	LOWRL,	05/28/08 21:47,	1.0,	0.15667083,	0.014056761,	0.0183102,	0.32516337,
69,	MRL,	05/28/08 22:01,	1.0,	0.414831463,	0.049136156,	0.049744,	0.8937045,
70,	MBLK,	05/28/08 22:14,	1.0,	n.a.,	n.a.,	n.a.,	n.a.,
71,	LCS,	05/28/08 22:28,	1.0,	25.24189148,	0.916696141,	2.4180689,	49.0432771,
72,	LCSD,	05/28/08 22:42,	1.0,	24.93437573,	0.913431309,	2.3858876,	48.4769332,
73,	2805280378,	05/28/08 22:55,	1.0,	6.721042748,	n.a.,	0.0750235,	23.0076334,
74,	2805280392,	05/28/08 23:09,	1.0,	8.935655594,	n.a.,	0.0480924,	22.8856934,
75,	2805280100,	05/28/08 23:22,	1.0,	6.834724136,	n.a.,	0.4782831,	55.1102577,
76,	2805280107,	05/28/08 23:36,	1.0,	6.707141134,	n.a.,	2.6093362,	13.5936253,
77,	2805290128,	05/28/08 23:50,	1.0,	9.52988938,	n.a.,	1.3151757,	10.7826663,
78,	2805290130,	05/29/08 00:03,	1.0,	6.630413572,	n.a.,	0.3711285,	10.9936737,
79,	2805280097,	05/29/08 00:17,	1.0,	7.311391852,	n.a.,	0.4290023,	31.8012665,
80,	2805280095,	05/29/08 00:31,	1.0,	7.970045307,	n.a.,	0.6452344,	17.2919929,
81,	2805280096,	05/29/08 00:44,	1.0,	7.30725766,	n.a.,	0.3343239,	38.0730859,
82,	2805280091,	05/29/08 00:58,	1.0,	17.47138705,	n.a.,	3.8162999,	102.567059,
83,	2805280091MS,	05/29/08 01:12,	1.0,	30.29836637,	0.454224283,	5.0218001,	127.706256,
84,	2805280091MSD,	05/29/08 01:25,	1.0,	30.7814521,	0.465865144,	5.0659488,	128.57611,
85,	MCV,	05/29/08 01:39,	1.0,	20.04818897,	1.930646391,	1.9670075,	38.3210474,
86,	CCB,	05/29/08 01:52,	1.0,	0.015947532,	n.a.,	n.a.,	0.0202019,
87,	2805280375_1/25,	05/29/08 02:06,	25.0,	1997.425911,	n.a.,	n.a.,	1466.77919,
88,	2805280376_1/25,	05/29/08 02:20,	25.0,	1845.436379,	n.a.,	13.456553,	1564.11742,
89,	2805280099_1/2,	05/29/08 02:33,	2.0,	16.27028045,	n.a.,	5.0097878,	115.192367,
90,	2805280104_1/2,	05/29/08 02:47,	2.0,	81.93566783,	n.a.,	4.9392565,	158.492504,
91,	2805280106,	05/29/08 03:01,	1.0,	15.8246564,	n.a.,	3.5324253,	14.5363927,
92,	2805280093,	05/29/08 03:14,	1.0,	6.208997811,	n.a.,	1.5460858,	9.27591119,

93,	2805280094,	05/29/08 03:28,	1.0,	8.134489083,	n.a.,	1.6736078,	9.74084923,
94,	2805280102,	05/29/08 03:42,	1.0,	6.78443498,	n.a.,	1.199659,	36.9123696,
95,	2805280108,	05/29/08 03:55,	1.0,	5.849851044,	n.a.,	1.5702423,	13.6270138,
96,	2805280105,	05/29/08 04:09,	1.0,	9.409703854,	n.a.,	1.1630437,	20.7191718,
97,	2805280105MS,	05/29/08 04:22,	1.0,	22.64091624,	0.35690093,	2.4864548,	46.0511687,
98,	HCV2,	05/29/08 04:36,	1.0,	74.37226244,	7.935127674,	7.961597,	160.487403,
99,	HCV1,	05/29/08 04:50,	1.0,	49.36742208,	4.991744169,	4.9806681,	100.509342,
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Title: Anion by EPA 300.0
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC3_DX120_Anions\2008\May
Timebase: IC3
#Samples: 100
Created: 5/27/2008 7:44:40 PM by ser
(Modified, not saved)

No.	Name	Sample ID	Dil. Factor	Type	Program	Method
1	autocal1	DIH2O	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
2	autocal2	SXK080512-1	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
3	autocal3	SXK080512-2	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
4	autocal4	SXK080512-3	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
5	autocal5	SXK080512-4	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
6	autocal6	SXK080512-5	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
7	autocal7	SXK080512-6	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
8	autocal8	SXK080512-7	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
9	autocal9	SXK080512-8	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
10	autocal10	SXK080512-9	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
11	autocal11	SXK080512-10	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
12	20 PPM		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
13	HCV2		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
14	HCV1		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
15	MCV		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
16	autocal1	DIH2O	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
17	autocal2	SXK080528-1	1.0000	Standard	IC#3-ANION TTL2	ANION-IC#3
18	autocal3	SXK080528-2	1.0000	Standard	IC#3-ANION TTL2	ANION-IC#3
19	autocal4	SXK080528-3	1.0000	Standard	IC#3-ANION TTL2	ANION-IC#3
20	autocal5	SXK080528-4	1.0000	Standard	IC#3-ANION TTL2	ANION-IC#3
21	autocal6	SXK080528-5	1.0000	Standard	IC#3-ANION TTL2	ANION-IC#3
22	autocal7	SXK080528-6	1.0000	Standard	IC#3-ANION TTL2	ANION-IC#3
23	autocal8	SXK080528-7	1.0000	Standard	IC#3-ANION TTL2	ANION-IC#3
24	autocal9	SXK080528-8	1.0000	Standard	IC#3-ANION TTL2	ANION-IC#3
25	autocal10	SXK080528-9	1.0000	Standard	IC#3-ANION TTL2	ANION-IC#3
26	autocal11	SXK080528-10	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
27	autocal1	DIH2O	1.0000	Standard	IC#3-ANION TTL2	ANION-IC#3
28	autocal11	SXK080528-10	1.0000	Standard	IC#3-ANION TTL2	ANION-IC#3
29	20 PPM		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
30	HCV2		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
31	HCV1		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
32	MCV		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
33	CCB		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
34	LOWRL		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
35	MRL		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
36	MBLK		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
37	LCS		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
38	LCSD		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
39	2805270506_1/2	RI[redacted]EFF	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
40	2805270455_1/2	[redacted]AF	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
41	2805270467_1/2	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
42	2805270468_1/2	[redacted]TERR.	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3

Title: Anion by EPA 300.0
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC3_DX120_Anions\2008\May
Timebase: IC3
#Samples: 100
Created: 5/27/2008 7:44:40 PM by ser
(Modified, not saved)

No.	Name	Status	Comment	Inj. Date/Time	*Analyst
1	autocal1	Finished		5/13/2008 10:55:47 AM	sxk/lmr
2	autocal2	Finished		5/13/2008 11:09:24 AM	sxk/lmr
3	autocal3	Finished		5/13/2008 11:24:41 AM	sxk/lmr
4	autocal4	Finished		5/13/2008 11:38:18 AM	sxk/lmr
5	autocal5	Finished		5/13/2008 11:51:56 AM	sxk/lmr
6	autocal6	Finished		5/13/2008 12:05:34 PM	sxk/lmr
7	autocal7	Finished		5/13/2008 12:19:12 PM	sxk/lmr
8	autocal8	Finished		5/13/2008 12:32:49 PM	sxk/lmr
9	autocal9	Finished		5/13/2008 12:46:26 PM	sxk/lmr
10	autocal10	Finished		5/13/2008 1:00:04 PM	sxk/lmr
11	autocal11	Finished		5/13/2008 1:13:42 PM	sxk/lmr
12	20 PPM	Finished		5/28/2008 8:34:31 AM	sxk/lmr
13	HCV2	Finished		5/28/2008 8:47:56 AM	sxk/lmr
14	HCV1	Finished		5/28/2008 9:01:31 AM	sxk/lmr
15	MCV	Interrupted		5/28/2008 9:15:07 AM	sxk/lmr
16	autocal1	Finished		5/28/2008 9:30:14 AM	sxk/lmr
17	autocal2	Finished		5/28/2008 9:44:08 AM	sxk/lmr
18	autocal3	Finished		5/28/2008 9:57:48 AM	sxk/lmr
19	autocal4	Finished		5/28/2008 10:11:25 AM	sxk/lmr
20	autocal5	Finished		5/28/2008 10:25:02 AM	sxk/lmr
21	autocal6	Finished		5/28/2008 10:38:38 AM	sxk/lmr
22	autocal7	Finished		5/28/2008 10:52:19 AM	sxk/lmr
23	autocal8	Finished		5/28/2008 11:05:57 AM	sxk/lmr
24	autocal9	Finished		5/28/2008 11:19:35 AM	sxk/lmr
25	autocal10	Finished		5/28/2008 11:33:13 AM	sxk/lmr
26	autocal11	Finished		5/28/2008 11:46:50 AM	sxk/lmr
27	autocal1	Finished		5/28/2008 12:28:38 PM	sxk/lmr
28	autocal11	Finished		5/28/2008 12:42:15 PM	sxk/lmr
29	20 PPM	Finished		5/28/2008 12:55:52 PM	sxk/lmr
30	HCV2	Finished		5/28/2008 1:09:30 PM	sxk/lmr
31	HCV1	Finished		5/28/2008 1:23:07 PM	sxk/lmr
32	MCV	Finished		5/28/2008 1:36:44 PM	sxk/lmr
33	CCB	Finished		5/28/2008 1:50:22 PM	sxk/lmr
34	LOWRL	Finished		5/28/2008 2:03:59 PM	sxk/lmr
35	MRL	Finished		5/28/2008 2:17:43 PM	sxk/lmr
36	MBLK	Finished		5/28/2008 2:31:22 PM	sxk/lmr
37	LCS	Finished	R201756	5/28/2008 2:45:00 PM	sxk/lmr
38	LCSD	Finished	R201756	5/28/2008 2:58:38 PM	sxk/lmr
39	2805270506_1/2	Finished		5/28/2008 3:12:15 PM	sxk/lmr
40	2805270455_1/2	Finished		5/28/2008 3:25:53 PM	sxk/lmr
41	2805270467_1/2	Finished		5/28/2008 3:39:32 PM	sxk/lmr
42	2805270468_1/2	Finished		5/28/2008 3:53:10 PM	sxk/lmr

Title: Anion by EPA 300.0
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC3_DX120_Anions\2008\May
Timebase: IC3
#Samples: 100
Created: 5/27/2008 7:44:40 PM by ser
(Modified, not saved)

No.	Name	Sample ID	Dil. Factor	Type	Program	Method
43	2805270461_1/2	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
44	2805270451_1/2	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
45	2805270534_1/2	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
46	2805270504_1/2	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
47	2805270503_1/2	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
48	2805270466	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
49	2805270466MS	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
50	2805270466MSD	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
51	MCV		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
52	CCB		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
53	2805270552	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
54	2805270553	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
55	2805270549	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
56	2805270551	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
57	2805270550_1/2	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
58	2805270556_1/2	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
59	2805270557_1/2	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
60	2805270558_1/2	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
61	2805270554_1/2	[redacted]	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
62	2805270555	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
63	2805270555MS	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
64	HCV2		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
65	HCV1		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
66	MCV		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
67	CCB		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
68	LOWRL		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
69	MRL		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
70	MBLK		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
71	LCS		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
72	LCSD		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
73	2805280378	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
74	2805280392	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
75	2805280100	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
76	2805280107	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
77	2805290128	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
78	2805290130	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
79	2805280097	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
80	2805280095	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
81	2805280096	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
82	2805280091	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
83	2805280091MS	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
84	2805280091MSD	[redacted]	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3

Title: Anion by EPA 300.0
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC3_DX120_Anions\2008\May
Timebase: IC3
#Samples: 100
Created: 5/27/2008 7:44:40 PM by ser
(Modified, not saved)

No.	Name	Status	Comment	Inj. Date/Time	*Analyst
43	2805270461_1/2	Finished		5/28/2008 4:06:48 PM	sxk/lmr
44	2805270451_1/2	Finished		5/28/2008 4:20:25 PM	sxk/lmr
45	2805270534_1/2	Finished		5/28/2008 4:34:03 PM	sxk/lmr
46	2805270504_1/2	Finished	DNR CL	5/28/2008 4:47:40 PM	sxk/lmr
47	2805270503_1/2	Finished		5/28/2008 5:01:18 PM	sxk/lmr
48	2805270466	Finished		5/28/2008 5:14:56 PM	sxk/lmr
49	2805270466MS	Finished		5/28/2008 5:28:33 PM	sxk/lmr
50	2805270466MSD	Finished		5/28/2008 5:42:12 PM	sxk/lmr
51	MCV	Finished		5/28/2008 5:55:50 PM	sxk/lmr
52	CCB	Finished		5/28/2008 6:09:28 PM	sxk/lmr
53	2805270552	Finished	DNR NO3	5/28/2008 6:23:06 PM	sxk/lmr
54	2805270553	Finished	INJ 53-63	5/28/2008 6:36:44 PM	sxk/lmr
55	2805270549	Finished	REPORT NO3	5/28/2008 6:50:22 PM	sxk/lmr
56	2805270551	Finished		5/28/2008 7:04:00 PM	sxk/lmr
57	2805270550_1/2	Finished		5/28/2008 7:17:37 PM	sxk/lmr
58	2805270556_1/2	Finished	DNR CL	5/28/2008 7:31:15 PM	sxk/lmr
59	2805270557_1/2	Finished	DNR CL	5/28/2008 7:44:53 PM	sxk/lmr
60	2805270558_1/2	Finished	DNR CL	5/28/2008 7:58:31 PM	sxk/lmr
61	2805270554_1/2	Finished		5/28/2008 8:12:09 PM	sxk/lmr
62	2805270555	Finished	DNR CL REPORT NO3	5/28/2008 8:25:47 PM	sxk/lmr
63	2805270555MS	Finished		5/28/2008 8:39:25 PM	sxk/lmr
64	HCV2	Finished		5/28/2008 8:53:02 PM	sxk/lmr
65	HCV1	Finished		5/28/2008 9:06:40 PM	sxk/lmr
66	MCV	Finished		5/28/2008 9:20:18 PM	sxk/lmr
67	CCB	Finished		5/28/2008 9:33:56 PM	sxk/lmr
68	LOWRL	Finished		5/28/2008 9:47:34 PM	sxk/lmr
69	MRL	Finished		5/28/2008 10:01:12 PM	sxk/lmr
70	MBLK	Finished		5/28/2008 10:14:50 PM	sxk/lmr
71	LCS	Finished	R201756	5/28/2008 10:28:28 PM	sxk/lmr
72	LCSD	Finished	R201756	5/28/2008 10:42:06 PM	sxk/lmr
73	2805280378	Finished		5/28/2008 10:55:43 PM	sxk/lmr
74	2805280392	Finished		5/28/2008 11:09:21 PM	sxk/lmr
75	2805280100	Finished		5/28/2008 11:22:59 PM	sxk/lmr
76	2805280107	Finished		5/28/2008 11:36:37 PM	sxk/lmr
77	2805290128	Finished		5/28/2008 11:50:15 PM	sxk/lmr
78	2805290130	Finished		5/29/2008 12:03:54 AM	sxk/lmr
79	2805280097	Finished		5/29/2008 12:17:32 AM	sxk/lmr
80	2805280095	Finished		5/29/2008 12:31:10 AM	sxk/lmr
81	2805280096	Finished		5/29/2008 12:44:47 AM	sxk/lmr
82	2805280091	Finished	DNR SO4	5/29/2008 12:58:25 AM	sxk/lmr
83	2805280091MS	Finished		5/29/2008 1:12:03 AM	sxk/lmr
84	2805280091MSD	Finished		5/29/2008 1:25:40 AM	sxk/lmr

Title: Anion by EPA 300.0
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC3_DX120_Anions\2008\May
Timebase: IC3
#Samples: 100
Created: 5/27/2008 7:44:40 PM by ser
(Modified, not saved)

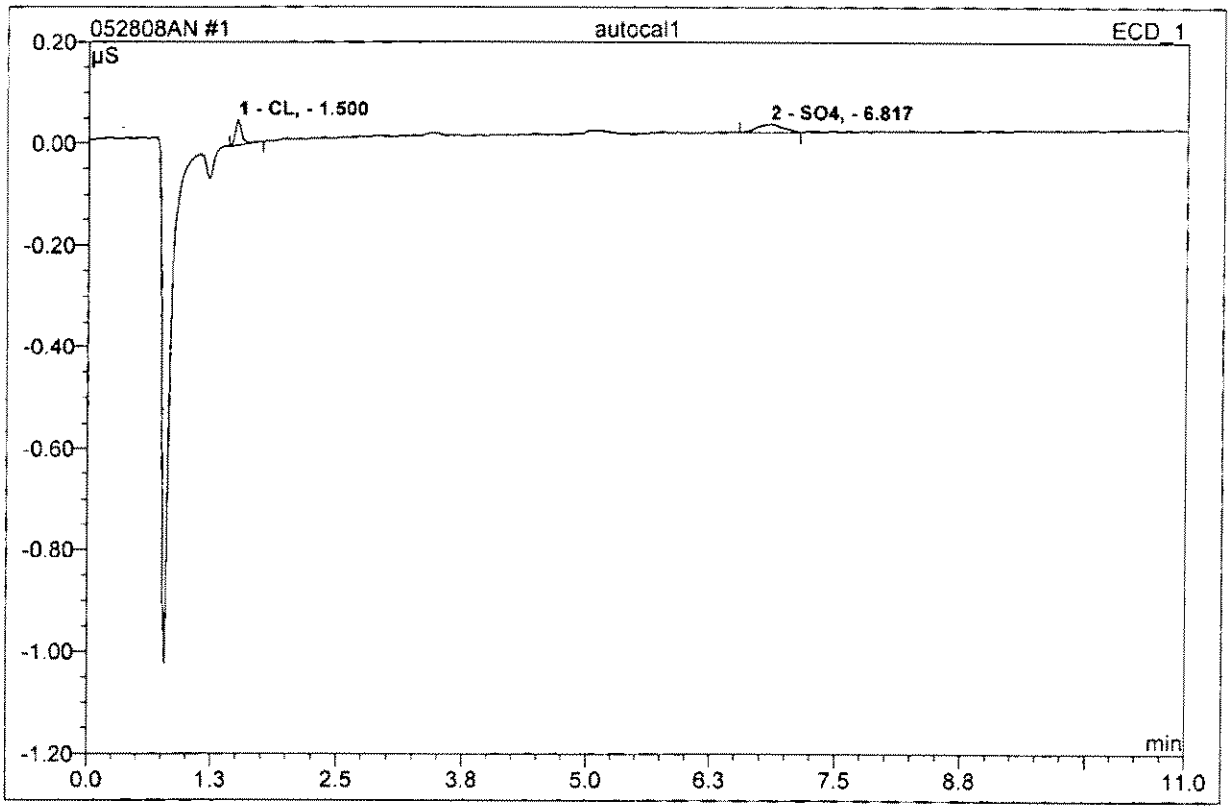
No.	Name	Sample ID	Dil. Factor	Type	Program	Method
85	MCV		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
86	CCB		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
87	2805280375_1/25	KMG EFF_1/25	25.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
88	2805280376_1/25	KMG INF_1/25	25.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
89	2805280099_1/2	[redacted]_1/2	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
90	2805280104_1/2	[redacted]001_1/2	2.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
91	2805280106	[redacted]01	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
92	2805280093	[redacted]01	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
93	2805280094	[redacted]02	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
94	2805280102	[redacted]001	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
95	2805280108	[redacted]001	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
96	2805280105	[redacted]2	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
97	2805280105MS	[redacted]MS	1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
98	HCV2		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
99	HCV1		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3
100	CCB		1.0000	Unknown	IC#3-ANION TTL2	ANION-IC#3

Title: Anion by EPA 300.0
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC3_DX120_Anions\2008\May
Timebase: IC3
#Samples: 100
Created: 5/27/2008 7:44:40 PM by ser
(Modified, not saved)

No.	Name	Status	Comment	Inj. Date/Time	*Analyst
85	MCV	Finished		5/29/2008 1:39:18 AM	sxk/lmr
86	CCB	Finished		5/29/2008 1:52:55 AM	sxk/lmr
87	2805280375_1/25	Finished	DNR CL	5/29/2008 2:06:34 AM	sxk/lmr
88	2805280376_1/25	Finished	DNR CL	5/29/2008 2:20:12 AM	sxk/lmr
89	2805280099_1/2	Finished		5/29/2008 2:33:50 AM	sxk/lmr
90	2805280104_1/2	Finished		5/29/2008 2:47:28 AM	sxk/lmr
91	2805280106	Finished		5/29/2008 3:01:06 AM	sxk/lmr
92	2805280093	Finished		5/29/2008 3:14:44 AM	sxk/lmr
93	2805280094	Finished		5/29/2008 3:28:22 AM	sxk/lmr
94	2805280102	Finished		5/29/2008 3:42:00 AM	sxk/lmr
95	2805280108	Finished		5/29/2008 3:55:37 AM	sxk/lmr
96	2805280105	Finished		5/29/2008 4:09:15 AM	sxk/lmr
97	2805280105MS	Finished		5/29/2008 4:22:53 AM	sxk/lmr
98	HCV2	Finished		5/29/2008 4:36:32 AM	sxk/lmr
99	HCV1	Finished		5/29/2008 4:50:09 AM	sxk/lmr
100	CCB	Finished		5/29/2008 5:03:47 AM	sxk/lmr

1 autocal1

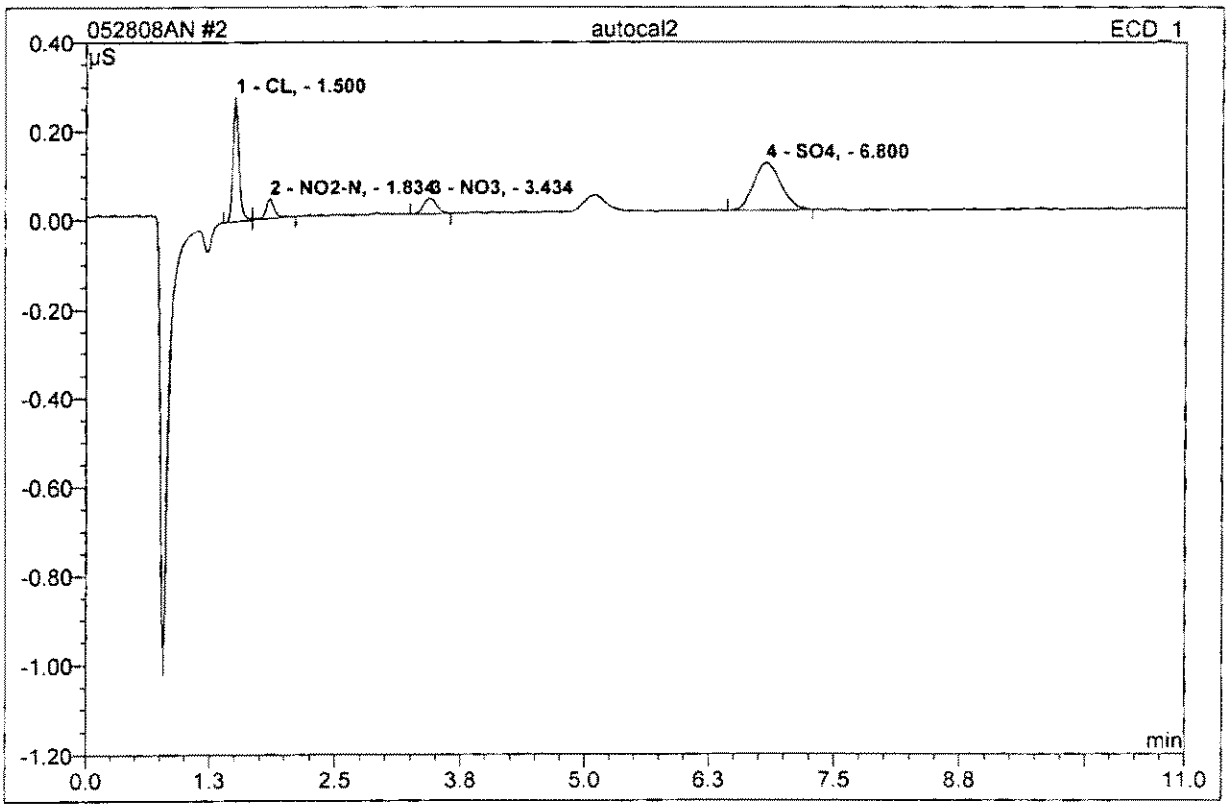
Sample Name:	**autocal1**	*Injection Volume:*	**1000.0**
Vial Number:	**179**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/13/2008 10:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.50	CL,	0.050	0.004	43.59	0.031	BMB
2	6.82	SO4,	0.016	0.005	56.41	0.057	BMB
Total:			0.066	0.009	100.00	0.088	

2 autocal2

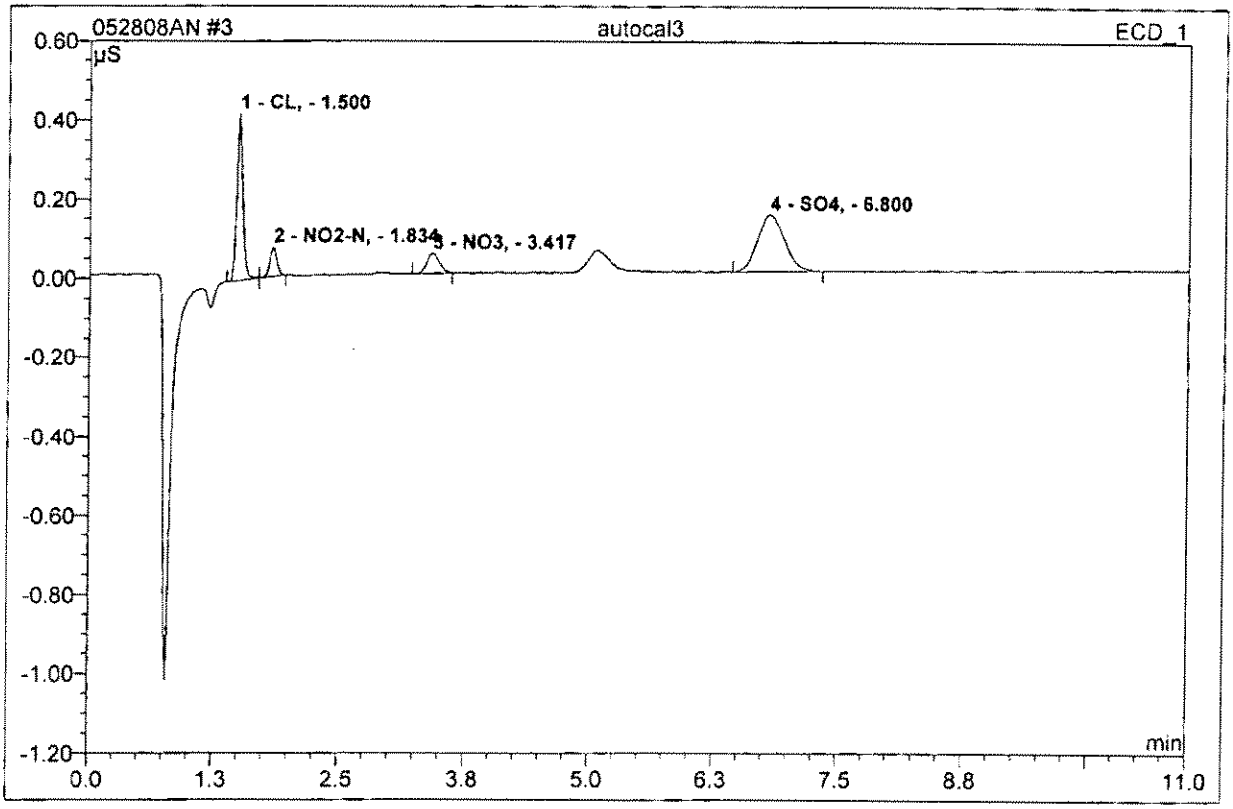
Sample Name:	**autocal2**	*Injection Volume:*	**1000.0**
Vial Number:	**180**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/13/2008 11:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.50	CL,	0.280	0.020	31.54	0.158	BM
2	1.83	NO2-N,	0.044	0.005	7.37	0.019	MB
3	3.43	NO3,	0.035	0.005	8.28	0.020	BMB
4	6.80	SO4,	0.107	0.033	52.81	0.379	BMB
Total:			0.465	0.063	100.00	0.575	

3 autocal3

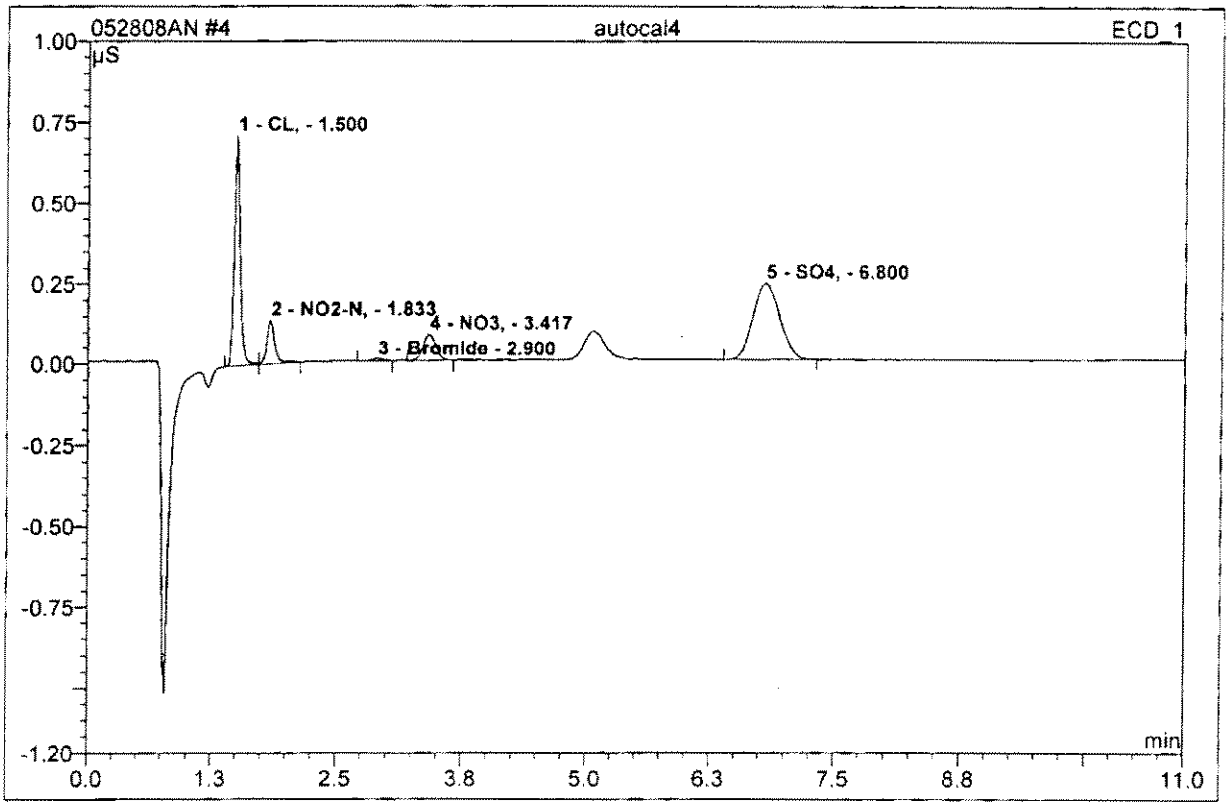
Sample Name:	**autocal3**	*Injection Volume:*	**1000.0**
Vial Number:	**181**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/13/2008 11:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.50	CL,	0.421	0.030	33.52	0.234	BM
2	1.83	NO2-N,	0.074	0.006	6.78	0.024	MB
3	3.42	NO3,	0.050	0.007	8.36	0.028	BMB
4	6.80	SO4,	0.145	0.045	51.34	0.513	BMB
Total:			0.689	0.088	100.00	0.799	

4 autocal4

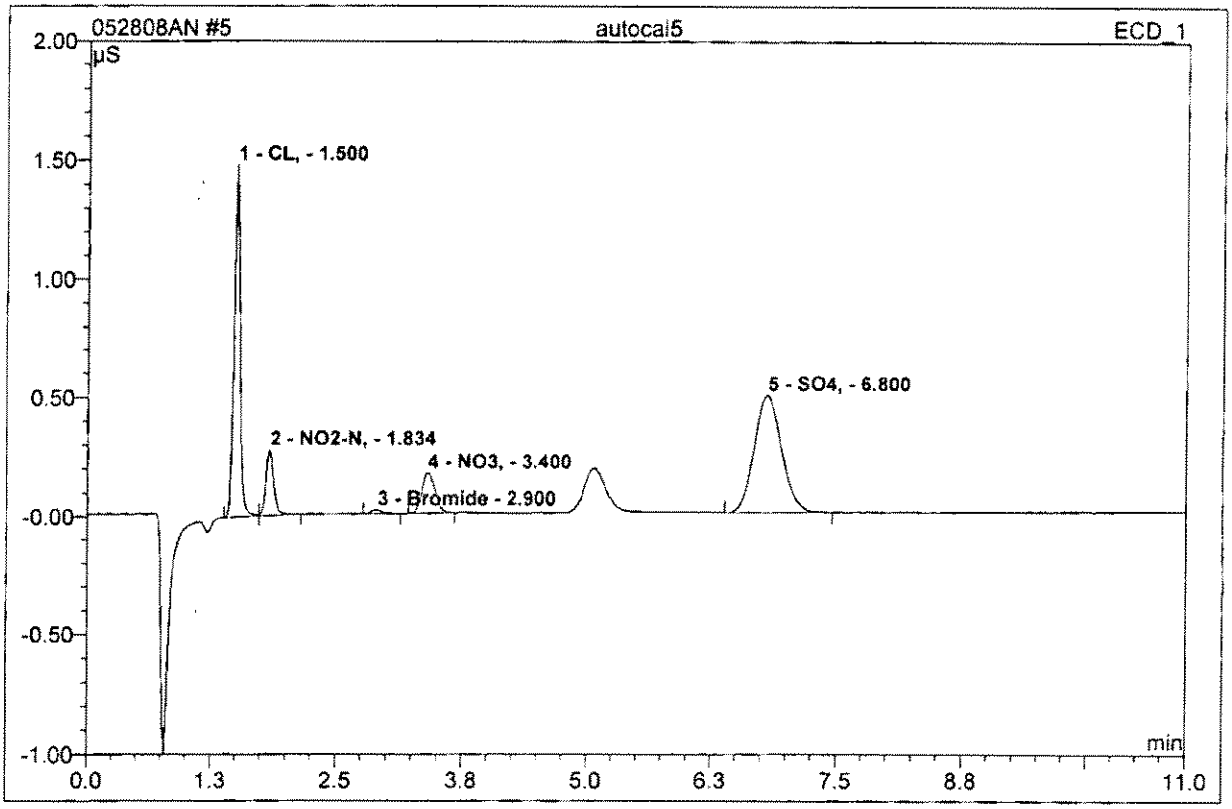
Sample Name:	**autocal4**	*Injection Volume:*	**1000.0**
Vial Number:	**182**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/13/2008 11:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.50	CL,	0.715	0.051	33.35	0.399	BM
2	1.83	NO2-N,	0.139	0.013	8.40	0.051	MB
3	2.90	Bromide	0.008	0.001	0.71	0.023	BMB
4	3.42	NO3,	0.085	0.013	8.33	0.047	BMB
5	6.80	SO4,	0.237	0.075	49.21	0.844	BMB
Total:			1.183	0.152	100.00	1.364	

5 autocal5

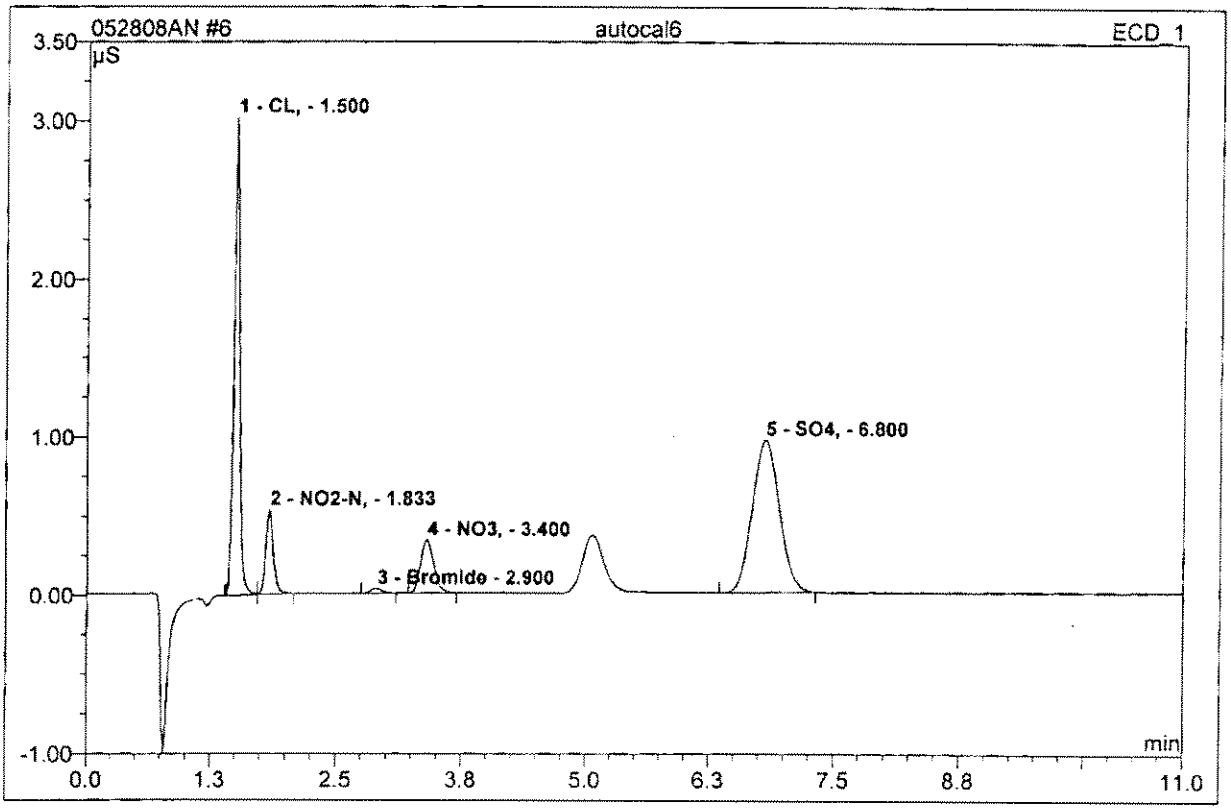
Sample Name:	**autocal5**	*Injection Volume:*	**1000.0**
Vial Number:	**183**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/13/2008 11:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.50	CL,	1.483	0.104	33.56	0.821	BM
2	1.83	NO2-N,	0.277	0.024	7.77	0.096	MB
3	2.90	Bromide	0.015	0.002	0.62	0.041	BMB
4	3.40	NO3,	0.170	0.025	8.14	0.094	BMB
5	6.80	SO4,	0.491	0.155	49.90	1.749	BMB
Total:			2.436	0.310	100.00	2.802	

6 autocal6

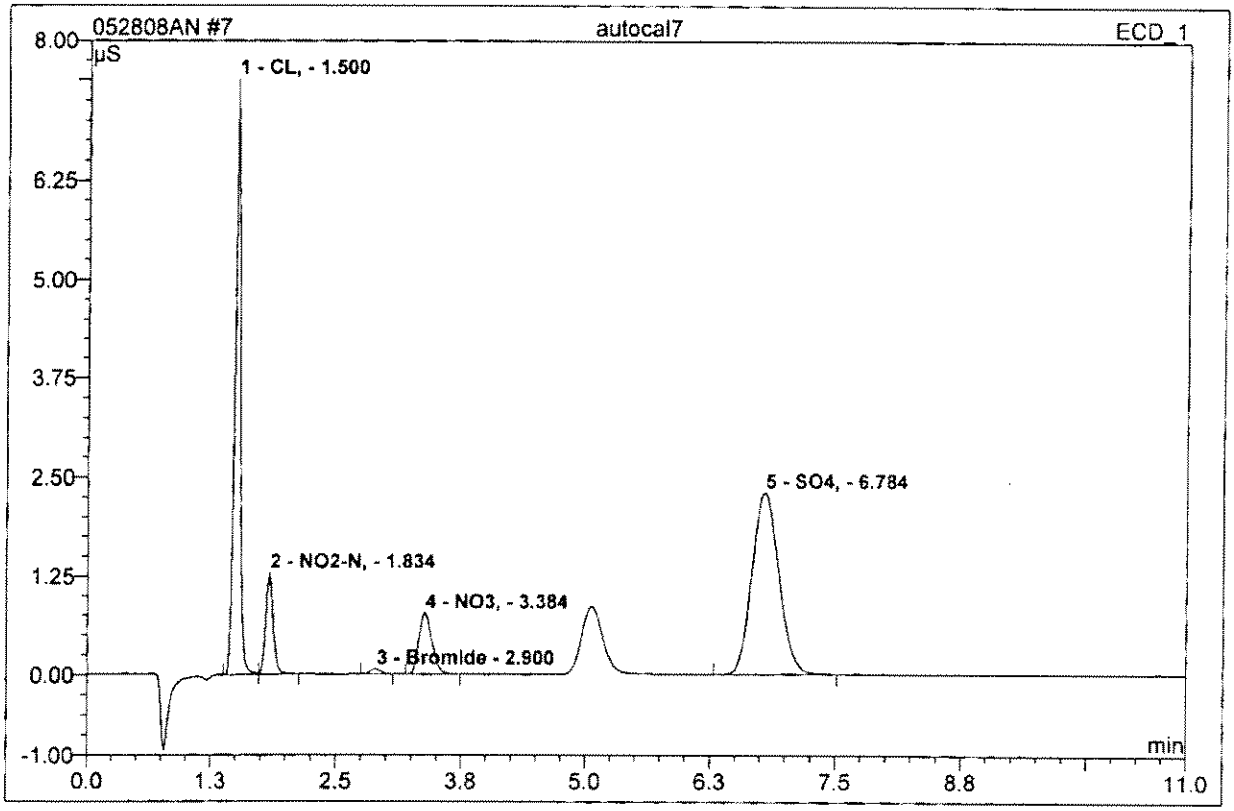
Sample Name:	**autocal6**	*Injection Volume:*	**1000.0**
Vial Number:	**184**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/13/2008 12:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.50	CL,	3.022	0.208	34.14	1.637	BM
2	1.83	NO2-N,	0.535	0.046	7.48	0.182	MB
3	2.90	Bromide	0.029	0.004	0.62	0.081	BMB
4	3.40	NO3,	0.337	0.050	8.16	0.186	BMB
5	6.80	SO4,	0.967	0.303	49.60	3.416	BMB
Total:			4.890	0.611	100.00	5.501	

7 autocal7

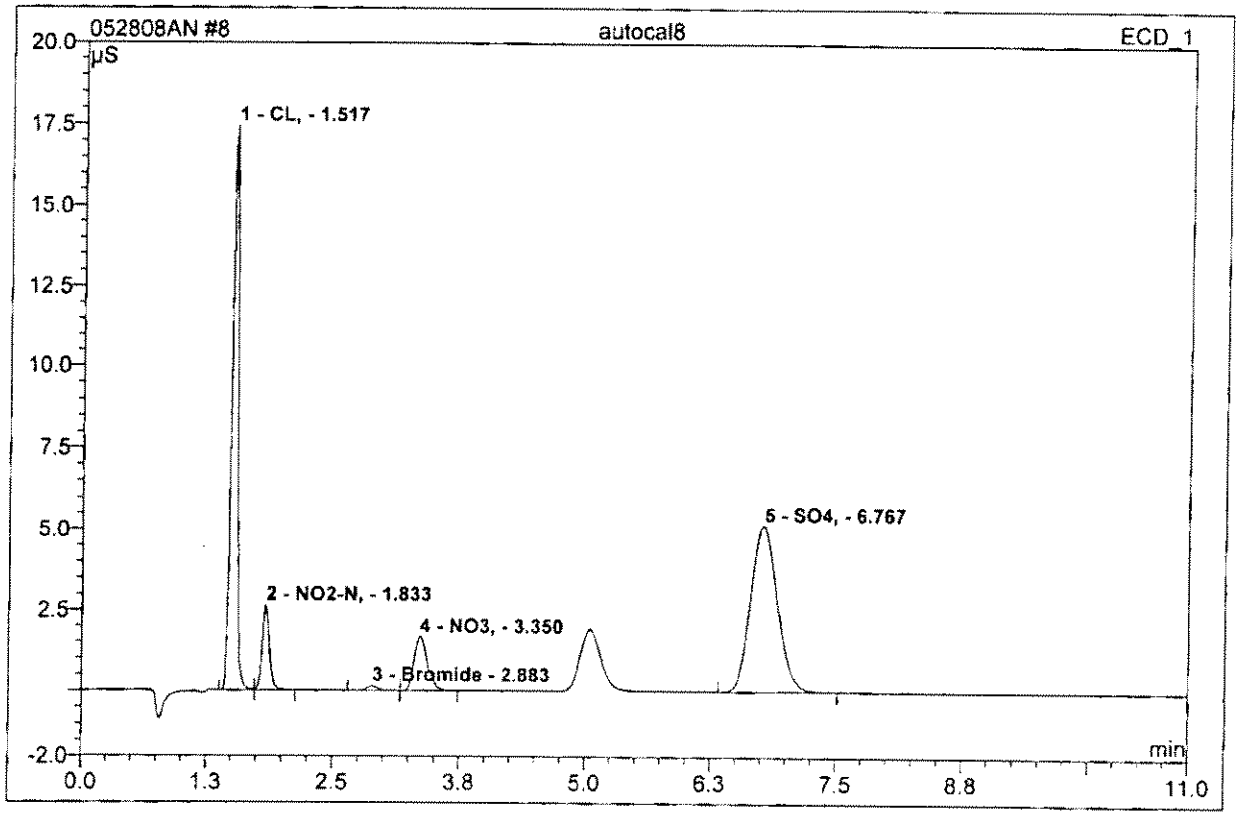
Sample Name:	**autocal7**	*Injection Volume:*	**1000.0**
Vial Number:	**185**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/13/2008 12:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.50	CL,	7.512	0.509	34.91	3.952	BM
2	1.83	NO2-N,	1.285	0.108	7.41	0.429	MB
3	2.90	Bromide	0.066	0.008	0.55	0.174	BMB
4	3.38	NO3,	0.776	0.116	7.93	0.430	BMB
5	6.78	SO4,	2.303	0.717	49.19	8.048	BMB
Total:			11.942	1.458	100.00	13.032	

8 autocal8

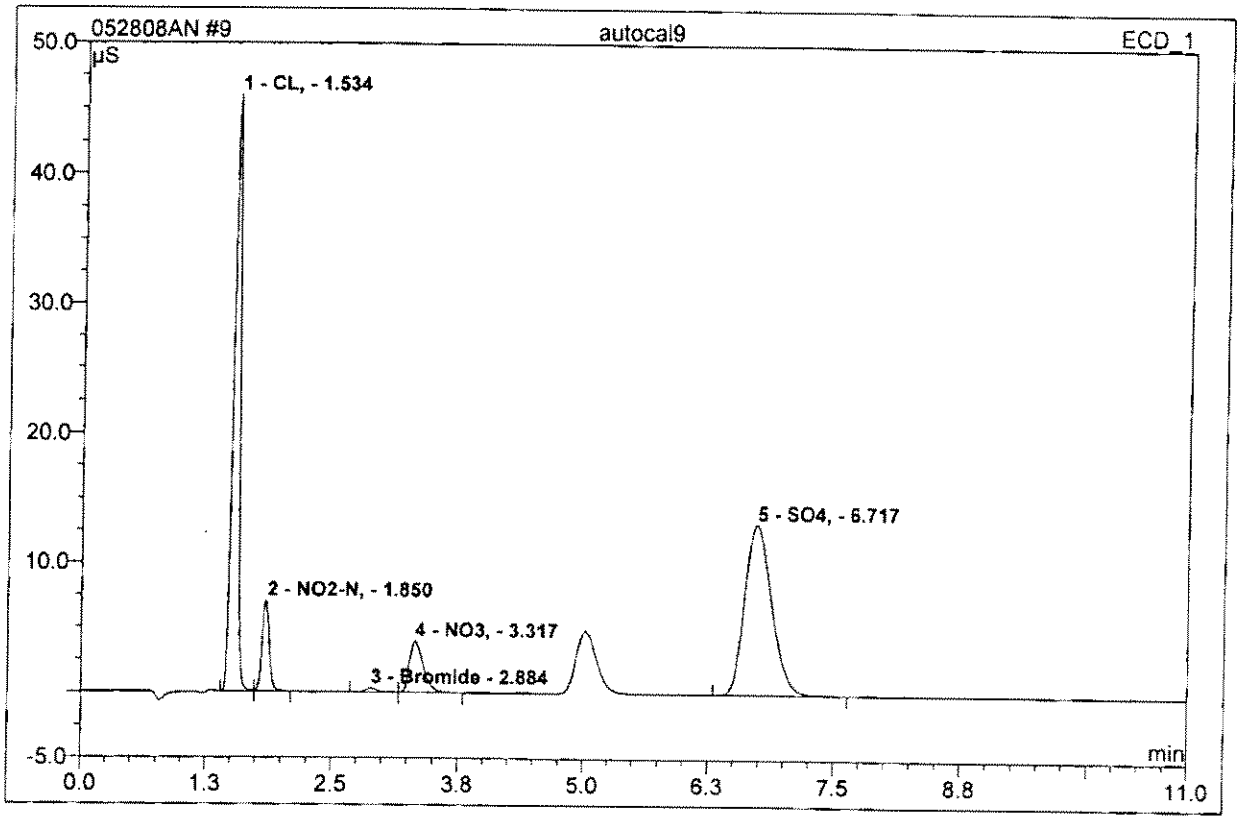
Sample Name:	**autocal8**	*Injection Volume:*	**1000.0**
Vial Number:	**186**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/13/2008 12:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.52	CL,	17.441	1.201	36.53	9.094	BM
2	1.83	NO2-N,	2.645	0.222	6.74	0.875	MB
3	2.88	Bromide	0.145	0.018	0.55	0.388	BMb
4	3.35	NO3,	1.661	0.253	7.69	0.932	bMB
5	6.77	SO4,	5.163	1.594	48.49	17.692	BMB
Total:			27.055	3.288	100.00	28.981	

9 autocal9

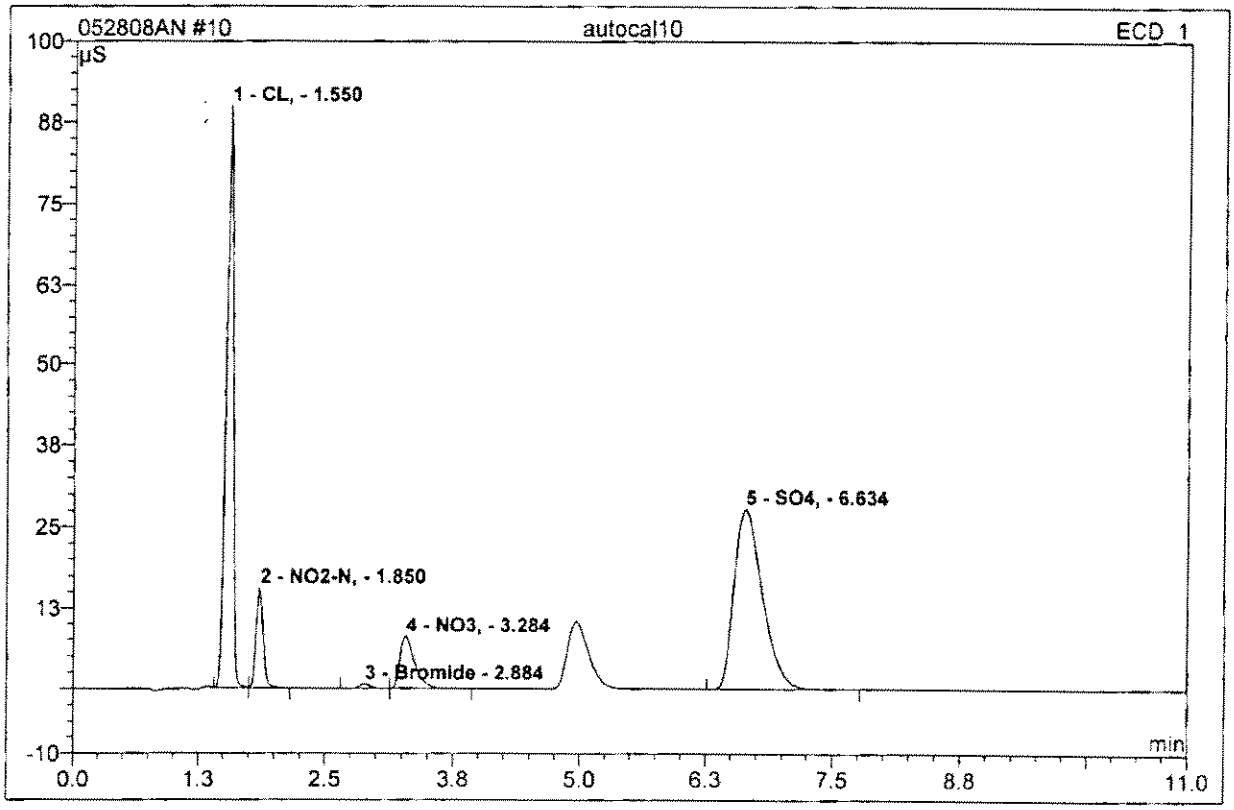
Sample Name:	**autocal9**	*Injection Volume:*	**1000.0**
Vial Number:	**187**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/13/2008 12:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.53	CL,	45.965	3.255	37.79	23.104	BM
2	1.85	NO2-N,	7.054	0.588	6.83	2.284	MB
3	2.88	Bromide	0.350	0.042	0.49	0.909	BMb
4	3.32	NO3,	3.974	0.625	7.25	2.251	bMB
5	6.72	SO4,	13.227	4.104	47.64	44.243	BMB
Total:			70.569	8.615	100.00	72.790	

10 autocal10

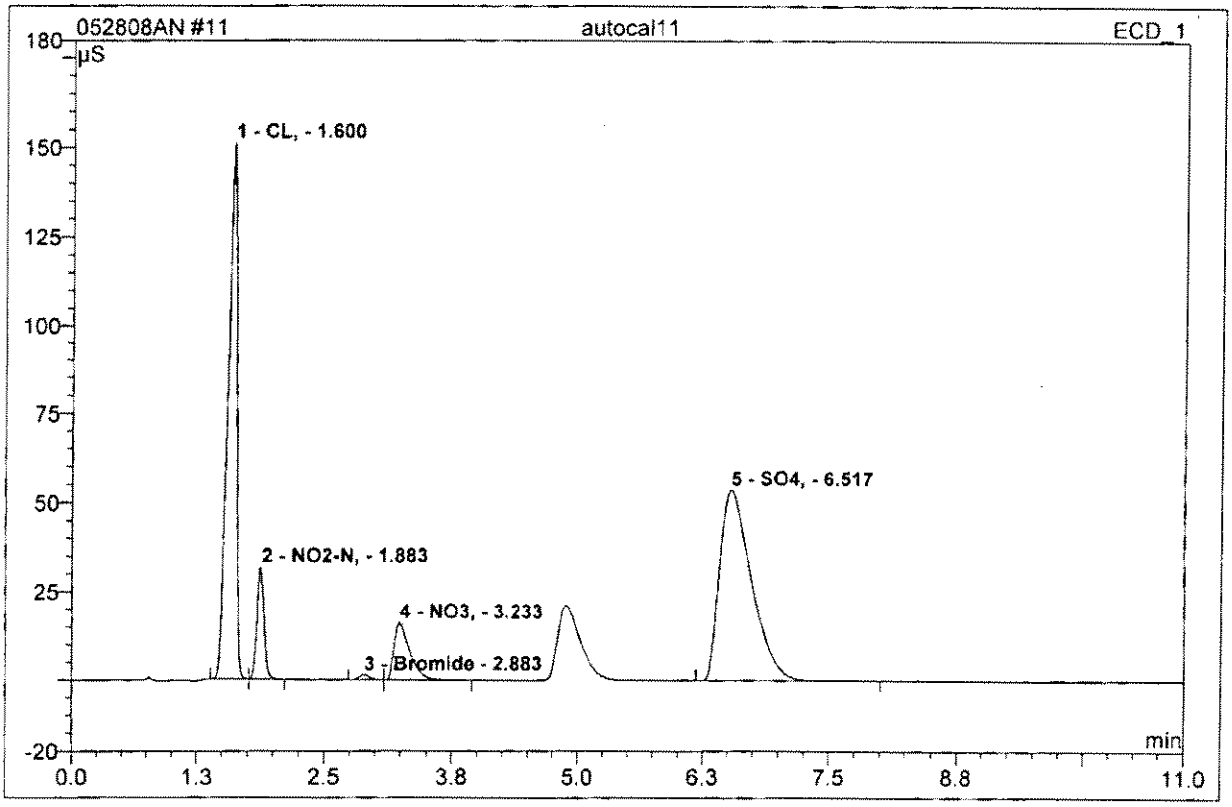
Sample Name:	**autocal10**	*Injection Volume:*	**1000.0**
Vial Number:	**188**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/13/2008 13:00**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.55	CL,	89.876	7.139	37.83	45.969	BM
2	1.85	NO2-N,	15.556	1.257	6.66	4.742	MB
3	2.88	Bromide	0.722	0.087	0.46	1.861	BM
4	3.28	NO3,	8.111	1.331	7.05	4.612	MB
5	6.63	SO4,	27.809	9.058	48.00	92.783	BMB
Total:			142.075	18.872	100.00	149.967	

11 autocal11

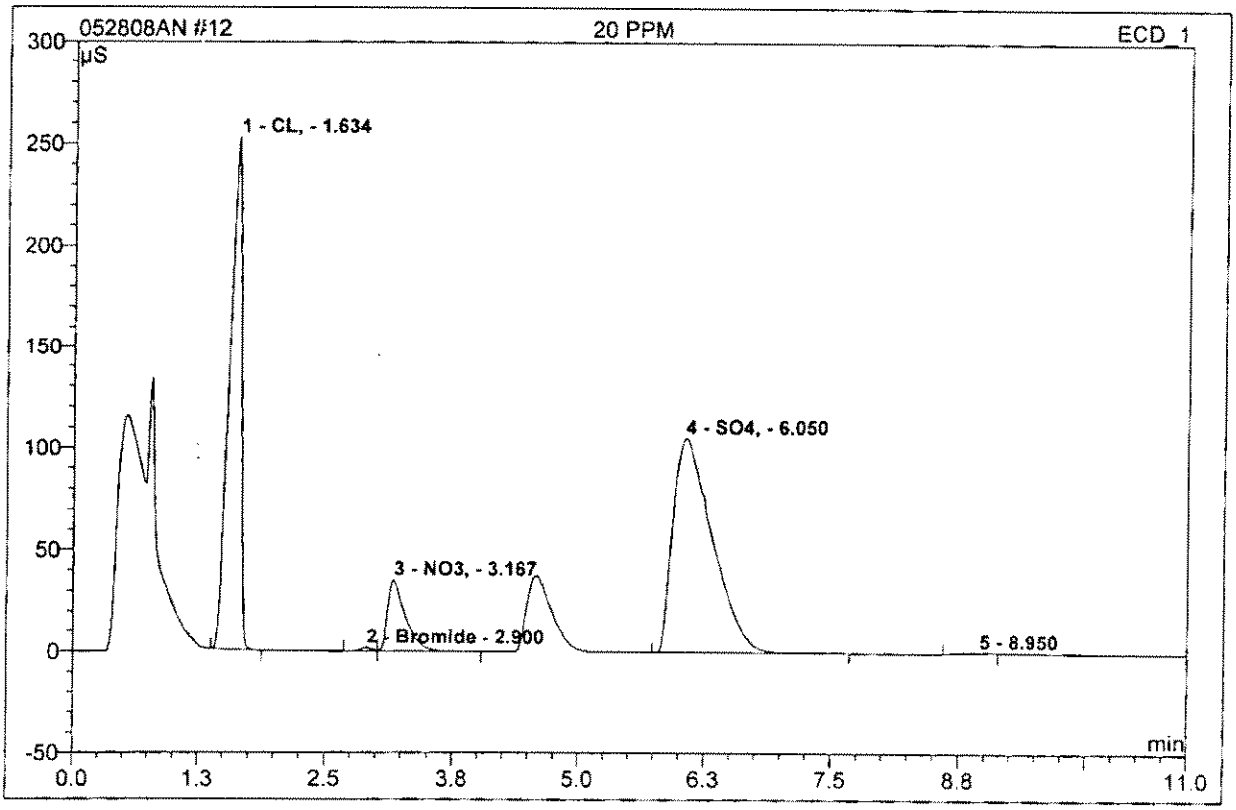
Sample Name:	**autocal11**	*Injection Volume:*	**1000.0**
Vial Number:	**192**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/13/2008 13:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	CL,	150.956	15.025	37.21	83.857	BMb
2	1.88	NO2-N,	31.630	2.608	6.46	9.341	bMB
3	2.88	Bromide	1.462	0.173	0.43	3.669	BM
4	3.23	NO3,	16.301	2.843	7.04	9.178	MB
5	6.52	SO4,	53.520	19.725	48.86	184.640	BMB
Total:			253.869	40.375	100.00	290.686	

12 20 PPM

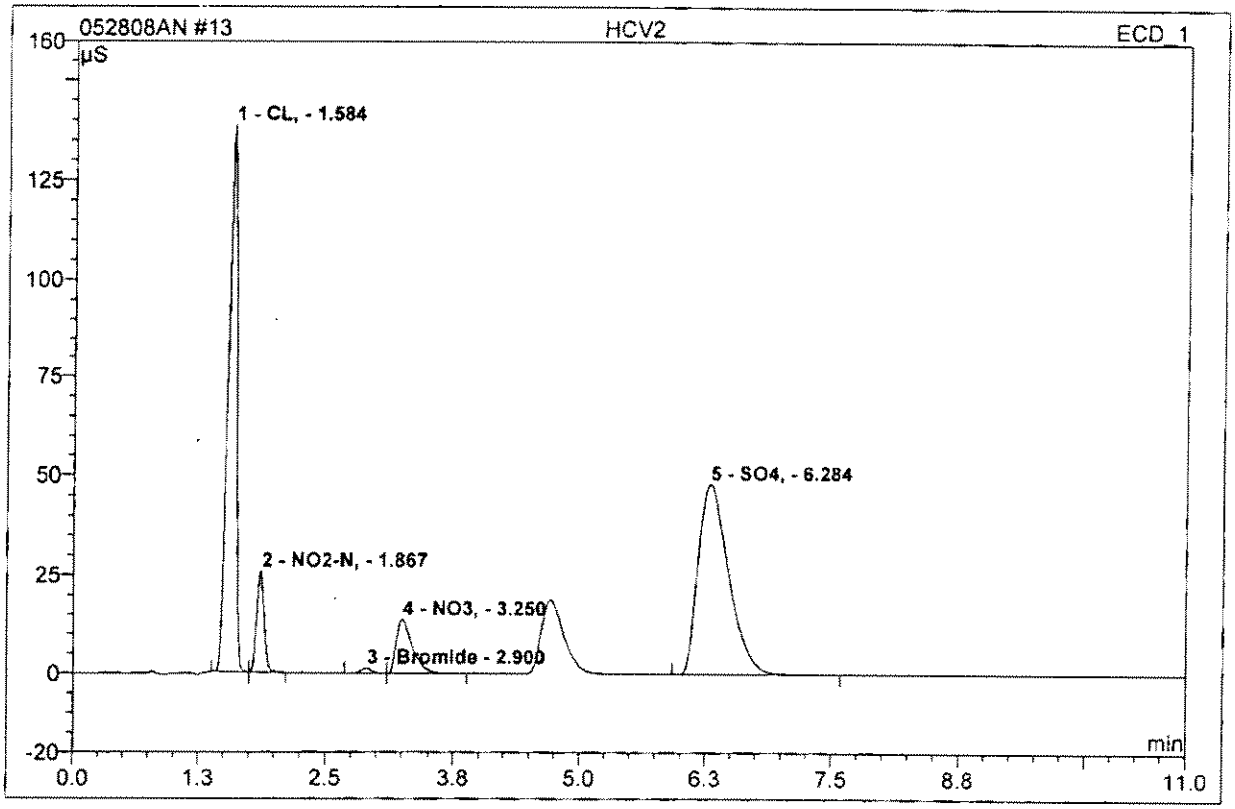
Sample Name:	**20 PPM**	*Injection Volume:*	**1000.0**
Vial Number:	**193**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 8:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.63	CL,	252.219	34.837	38.74	155.355	BMB
2	2.90	Bromide	1.709	0.218	0.24	4.590	BM
3	3.17	NO3,	35.299	7.194	8.00	19.990	MB
4	6.05	SO4,	105.377	47.576	52.90	377.203	BMB
Total:			394.604	89.824	99.88	557.139	

13 HCV2

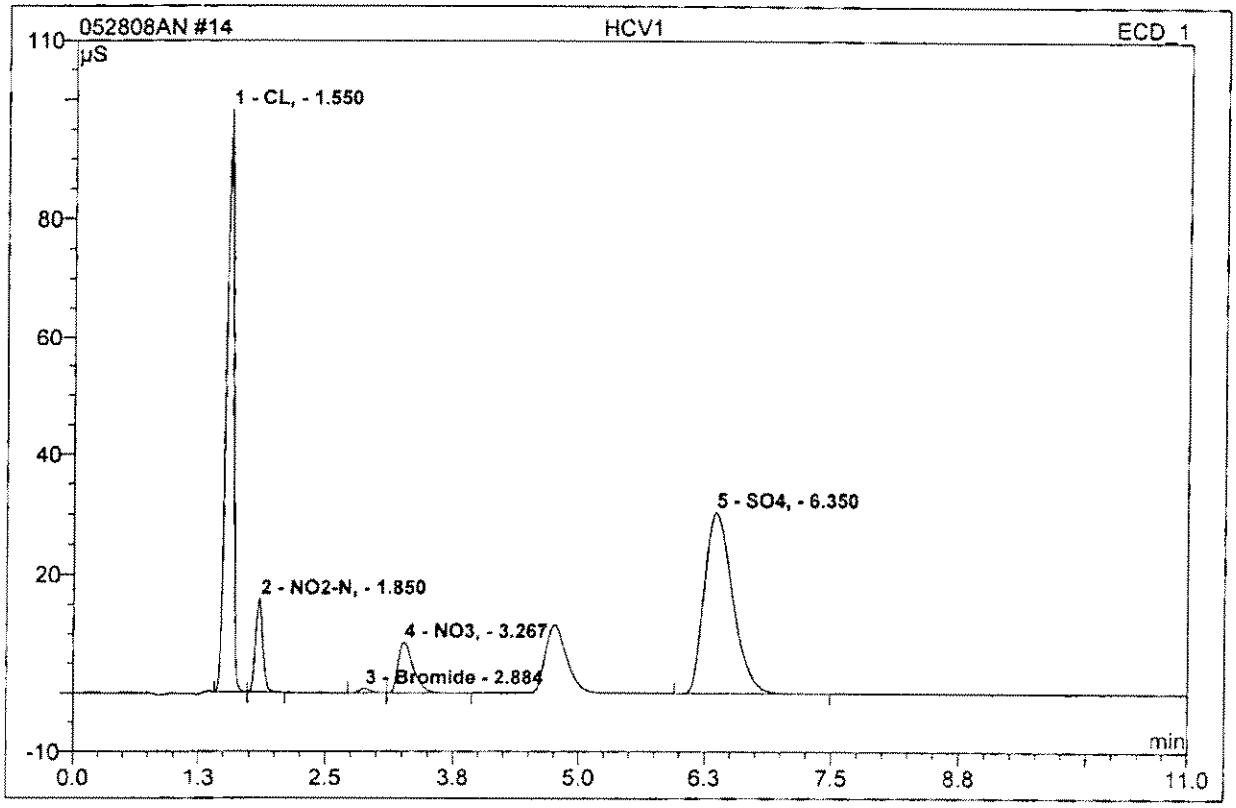
Sample Name:	**HCV2**	*Injection Volume:*	**1000.0**
Vial Number:	**262**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 8:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.58	CL,	138.323	13.047	37.52	75.124	BMb
2	1.87	NO2-N,	25.591	2.207	6.35	8.022	bMB
3	2.90	Bromide	1.213	0.151	0.43	3.205	BM
4	3.25	NO3,	13.743	2.441	7.02	8.020	MB
5	6.28	SO4,	47.862	16.924	48.67	161.875	BMB
Total:			226.732	34.770	100.00	256.246	

14 HCV1

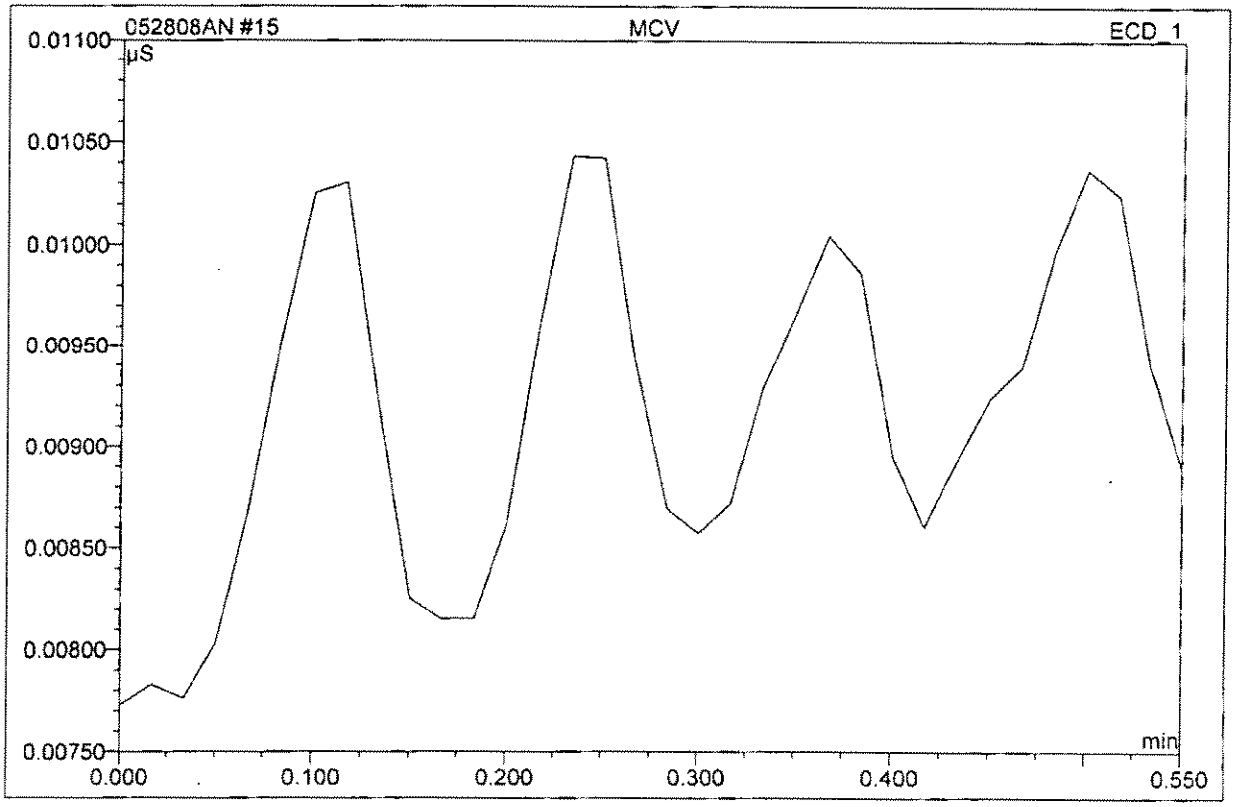
Sample Name:	**HCV1**	*Injection Volume:*	**1000.0**
Vial Number:	**264**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 9:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.55	CL,	98.208	7.900	37.97	50.045	BMb
2	1.85	NO2-N,	15.784	1.338	6.43	5.030	bMB
3	2.88	Bromide	0.756	0.094	0.45	2.003	BMb
4	3.27	NO3,	8.611	1.461	7.02	5.031	bMB
5	6.35	SO4,	30.524	10.015	48.13	101.664	BMB
Total:			153.883	20.809	100.00	163.774	

15 MCV

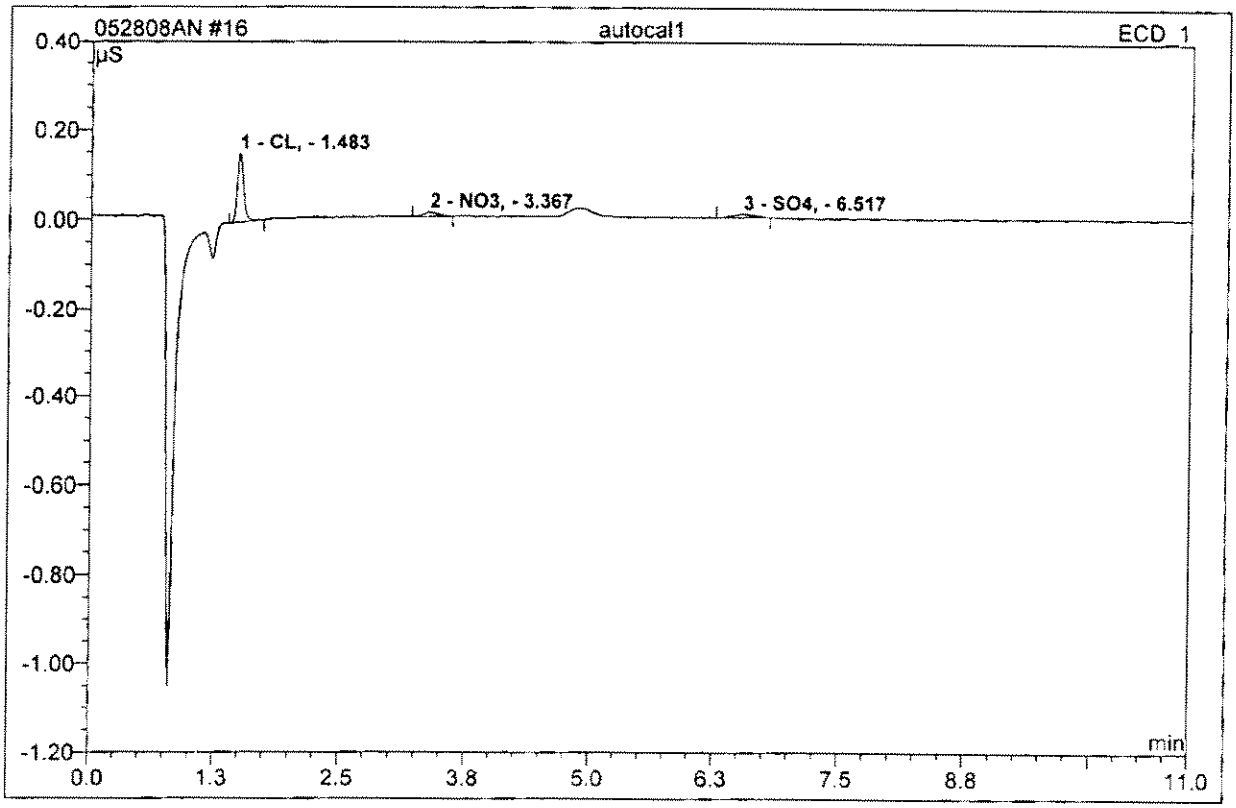
Sample Name:	**MCV**	*Injection Volume:*	**1000.0**
Vial Number:	**265**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 9:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**0.55**	*Sample Amount:*	**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	

16 autocal1

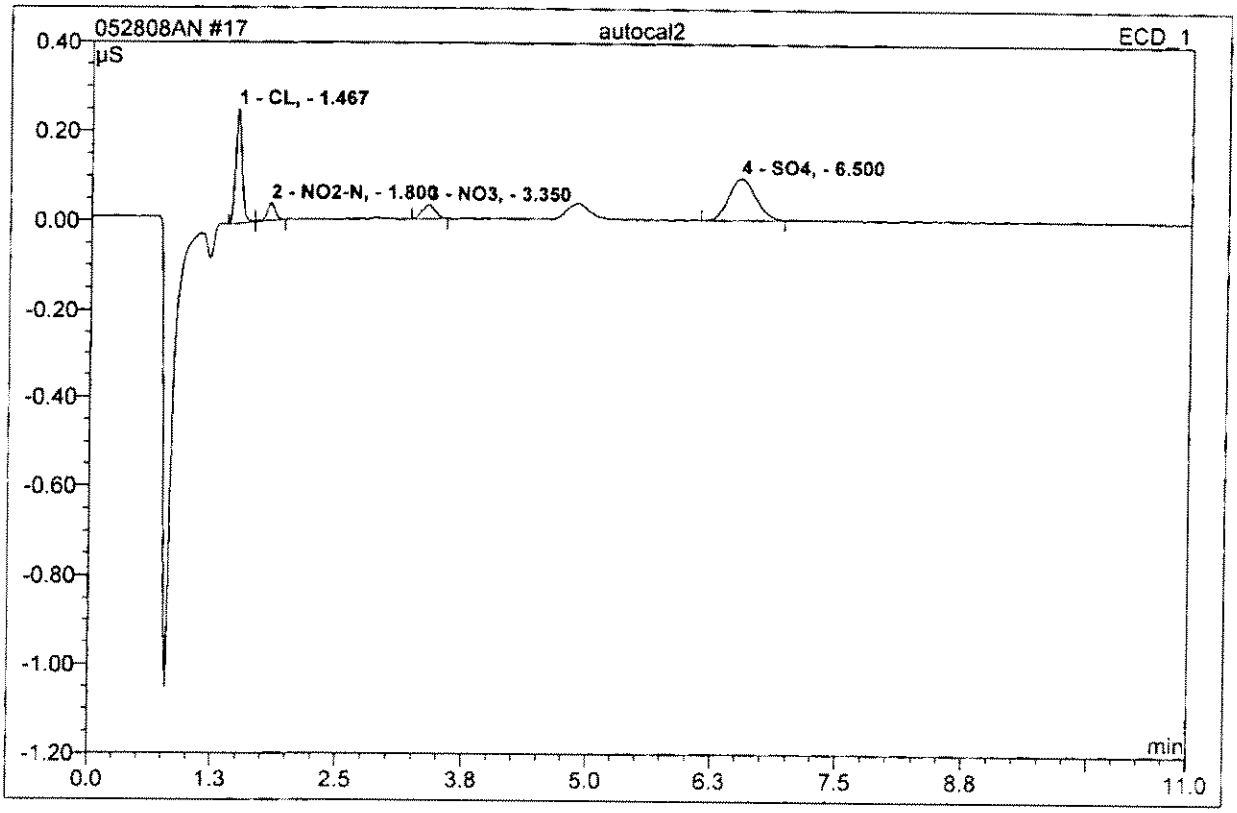
Sample Name:	**autocal1**	*Injection Volume:*	**1000.0**
Vial Number:	**266**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 9:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.48	CL,	0.155	0.012	74.97	0.095	BMB
2	3.37	NO3,	0.010	0.002	11.56	0.007	BMB
3	6.52	SO4,	0.007	0.002	13.47	0.024	BMB
Total:			0.172	0.016	100.00	0.126	

17 autocal2

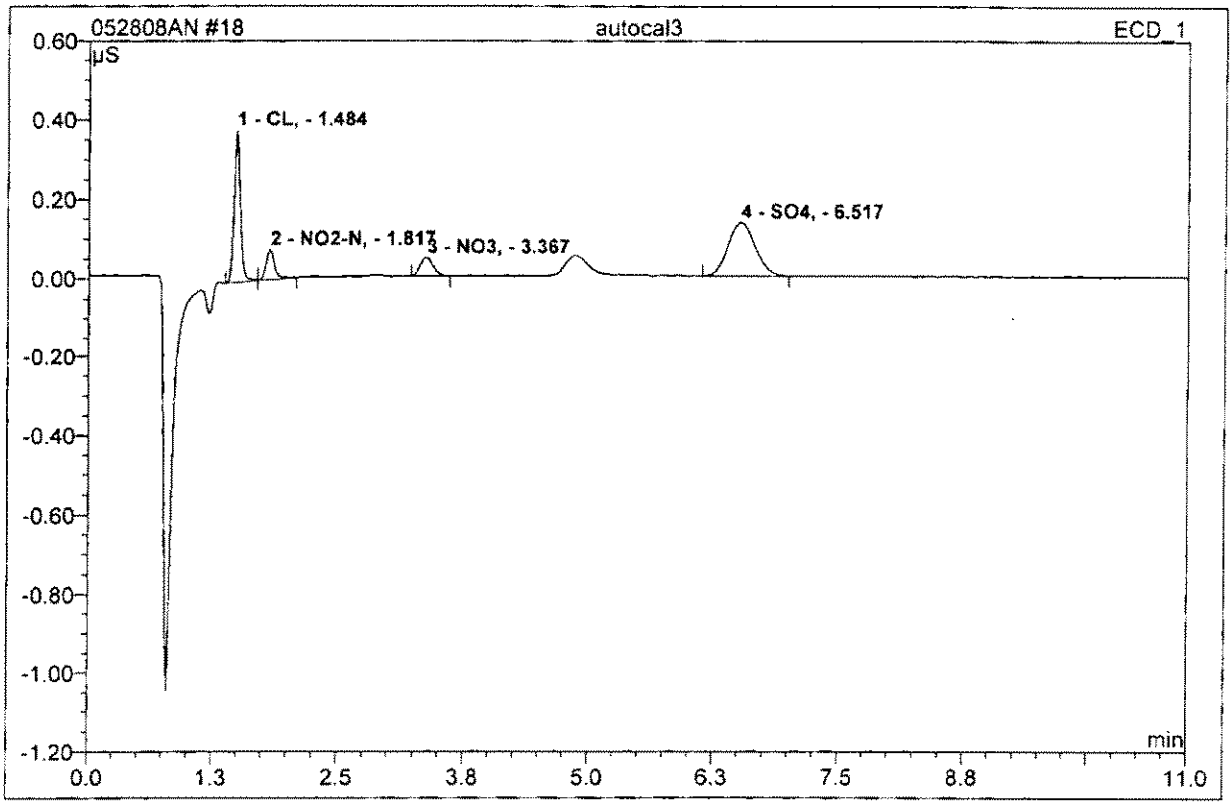
Sample Name:	**autocal2**	*Injection Volume:*	**1000.0**
Vial Number:	**267**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 9:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.47	CL,	0.256	0.020	34.25	0.155	BM
2	1.80	NO2-N,	0.040	0.004	6.51	0.015	MB
3	3.35	NO3,	0.031	0.005	8.03	0.017	BMB
4	6.50	SO4,	0.093	0.029	51.21	0.331	BMB
Total:			0.420	0.057	100.00	0.517	

18 autocal3

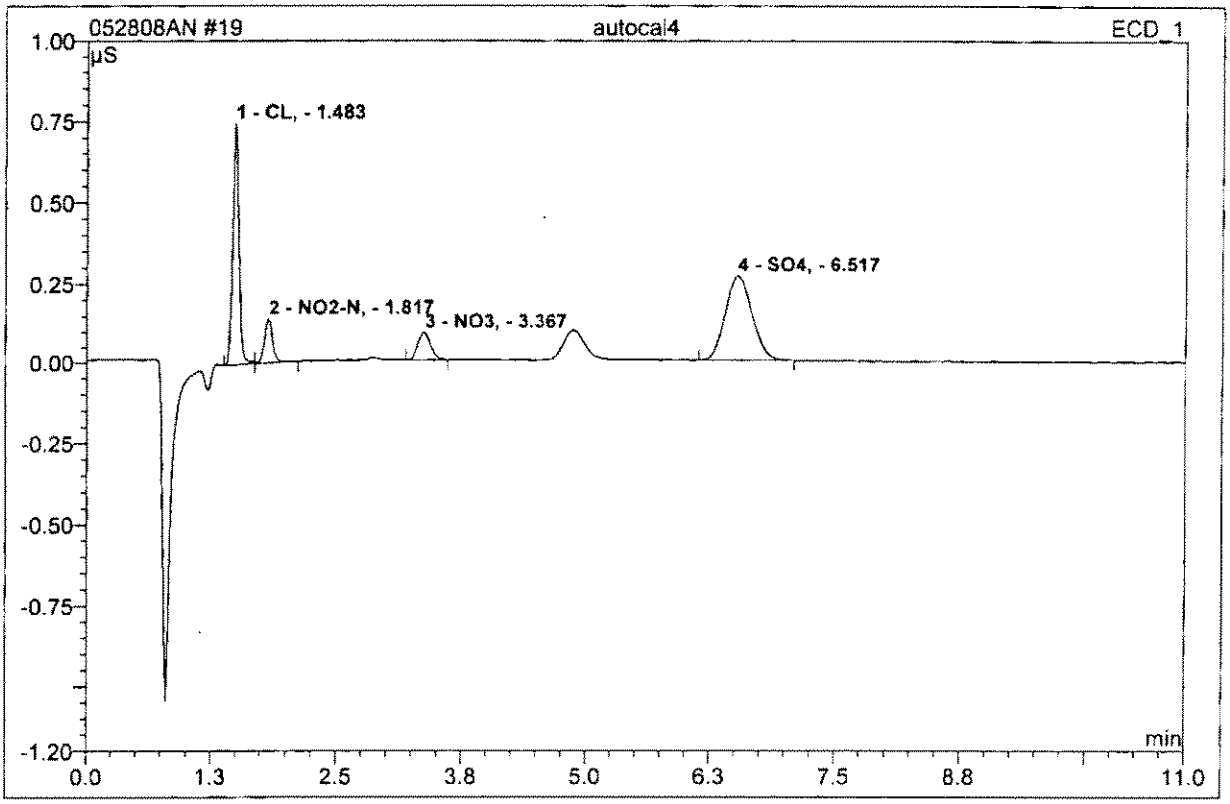
Sample Name:	**autocal3**	*Injection Volume:*	**1000.0**
Vial Number:	**268**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 9:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.48	CL,	0.382	0.029	33.55	0.228	BM
2	1.82	NO2-N,	0.075	0.007	8.34	0.029	MB
3	3.37	NO3,	0.046	0.007	8.14	0.026	BMB
4	6.52	SO4,	0.135	0.043	49.97	0.485	BMB
Total:			0.638	0.086	100.00	0.768	

19 autocal4

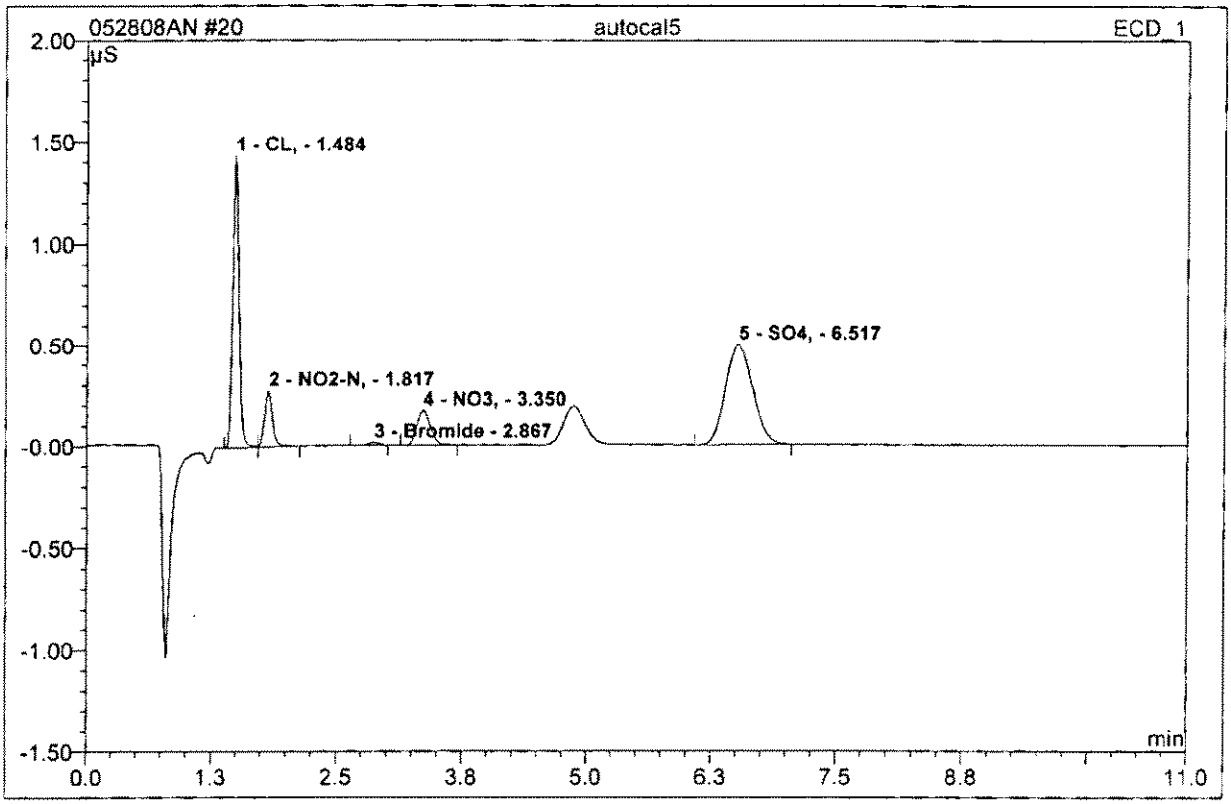
Sample Name:	**autocal4**	*Injection Volume:*	**1000.0**
Vial Number:	**269**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 10:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.48	CL,	0.750	0.056	33.90	0.445	BM
2	1.82	NO2-N,	0.142	0.013	7.80	0.052	MB
3	3.37	NO3,	0.090	0.014	8.31	0.052	BMB
4	6.52	SO4,	0.264	0.083	49.98	0.940	BMB
Total:			1.247	0.166	100.00	1.489	

20 autocal5

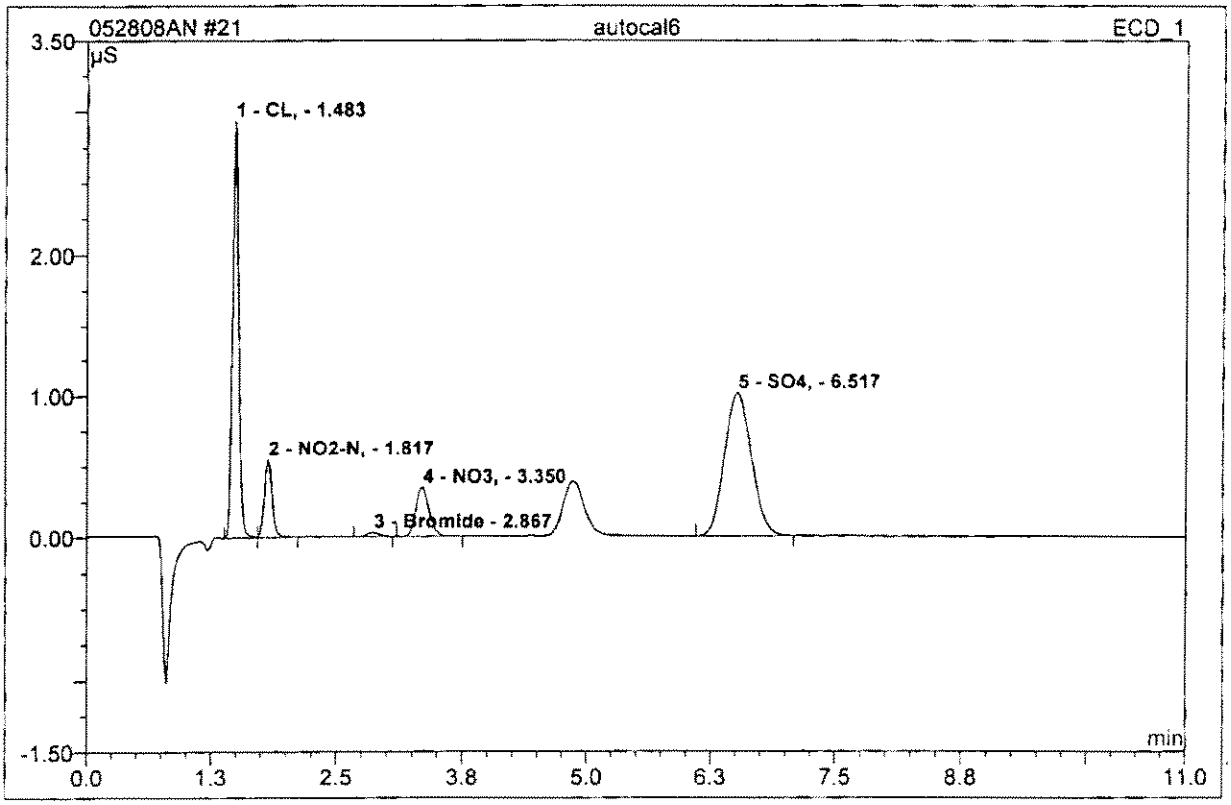
Sample Name:	**autocal5**	*Injection Volume:*	**1000.0**
Vial Number:	**270**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 10:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.48	CL,	1.442	0.107	33.70	0.845	BM
2	1.82	NO2-N,	0.277	0.025	7.71	0.098	MB
3	2.87	Bromide	0.014	0.002	0.62	0.042	BMB
4	3.35	NO3,	0.171	0.026	8.32	0.099	BMB
5	6.52	SO4,	0.502	0.158	49.66	1.784	BMB
Total:			2.406	0.318	100.00	2.868	

21 autocal6

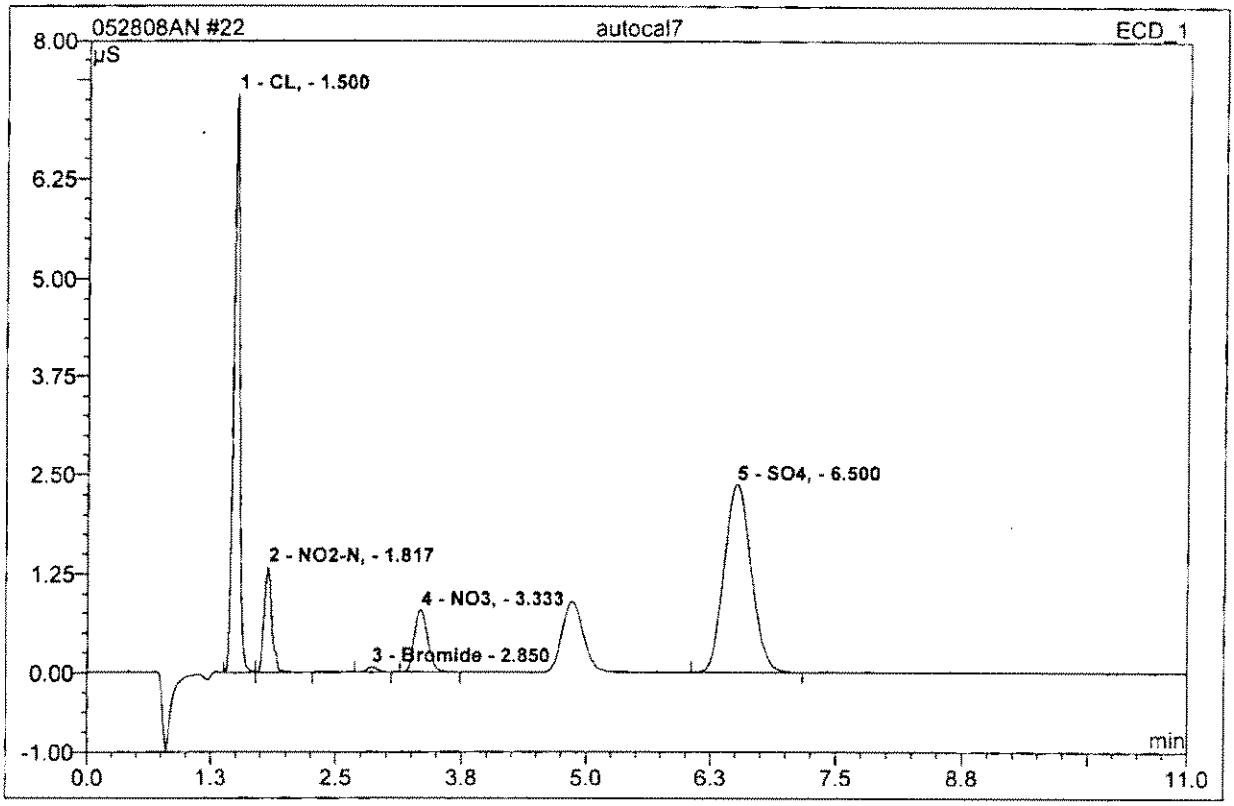
Sample Name:	**autocal6**	*Injection Volume:*	**1000.0**
Vial Number:	**271**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 10:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.48	CL,	2.936	0.217	34.17	1.705	BM
2	1.82	NO2-N,	0.547	0.047	7.47	0.189	MB
3	2.87	Bromide	0.029	0.004	0.61	0.083	BMB
4	3.35	NO3,	0.341	0.052	8.26	0.196	BMB
5	6.52	SO4,	1.004	0.315	49.49	3.547	BMB
Total:			4.856	0.636	100.00	5.719	

22 autocal7

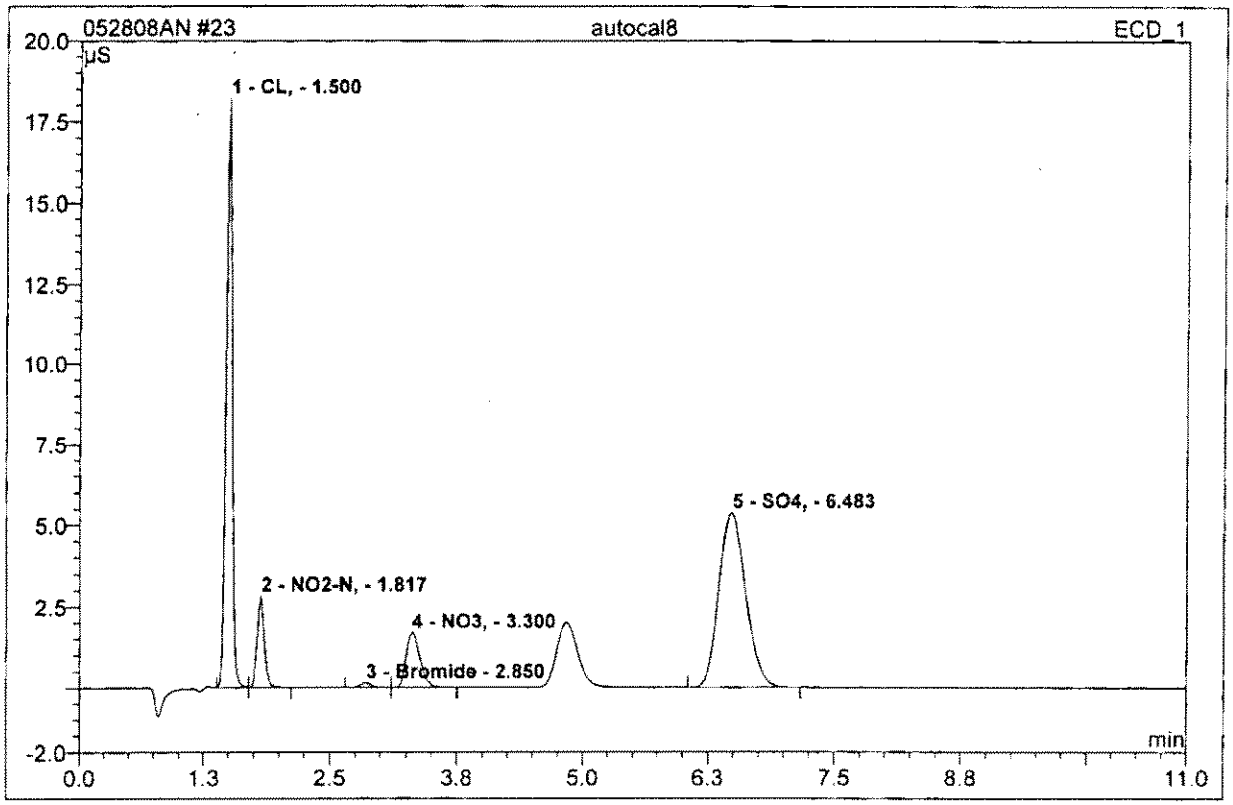
Sample Name:	**autocal7**	*Injection Volume:*	**1000.0**
Vial Number:	**272**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 10:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.50	CL,	7.322	0.531	34.94	4.118	BM
2	1.82	NO2-N,	1.332	0.117	7.73	0.466	MB
3	2.85	Bromide	0.067	0.008	0.55	0.181	BMB
4	3.33	NO3,	0.789	0.121	7.99	0.451	BMB
5	6.50	SO4,	2.375	0.741	48.79	8.313	BMB
Total:			11.885	1.519	100.00	13.528	

23 autocal8

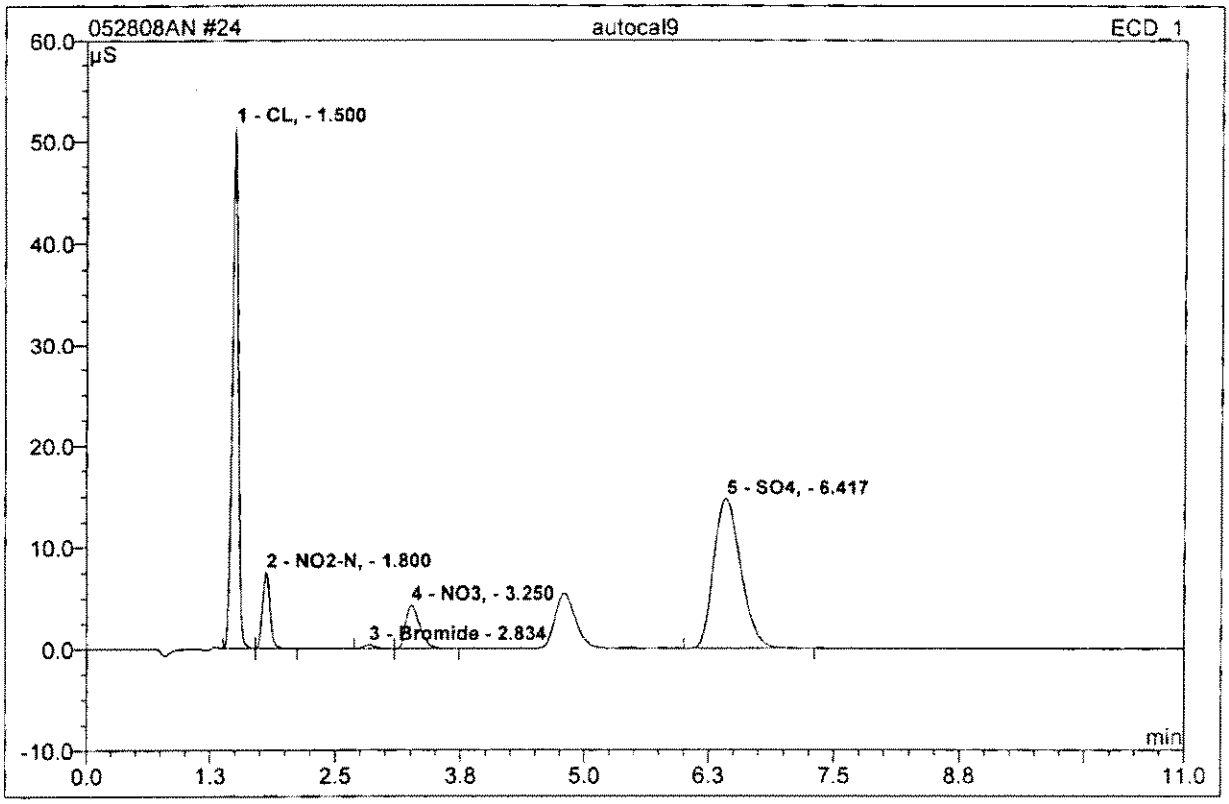
Sample Name:	**autocal8**	*Injection Volume:*	**1000.0**
Vial Number:	**273**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 11:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.50	CL,	18.207	1.263	36.53	9.540	BM
2	1.82	NO2-N,	2.833	0.241	6.97	0.950	MB
3	2.85	Bromide	0.149	0.019	0.54	0.402	BM
4	3.30	NO3,	1.705	0.266	7.70	0.980	MB
5	6.48	SO4,	5.369	1.668	48.26	18.495	BMB
Total:			28.262	3.456	100.00	30.368	

24 autocal9

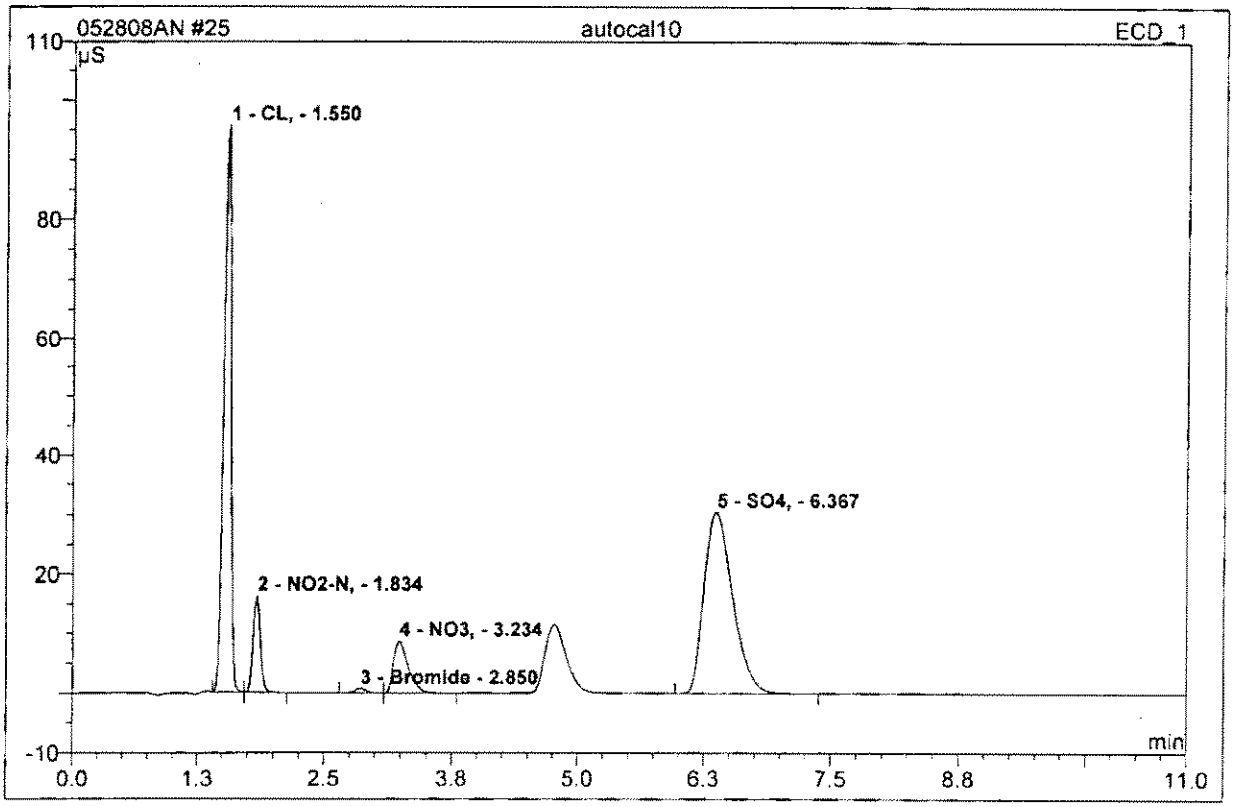
Sample Name:	**autocal9**	*Injection Volume:*	**1000.0**
Vial Number:	**274**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 11:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.50	CL,	51.414	3.643	37.91	25.572	BM
2	1.80	NO2-N,	7.484	0.640	6.66	2.480	MB
3	2.83	Bromide	0.376	0.047	0.49	1.001	BMb
4	3.25	NO3,	4.337	0.696	7.24	2.495	bMB
5	6.42	SO4,	14.673	4.583	47.70	49.148	BMB
Total:			78.285	9.609	100.00	80.698	

25 autocal10

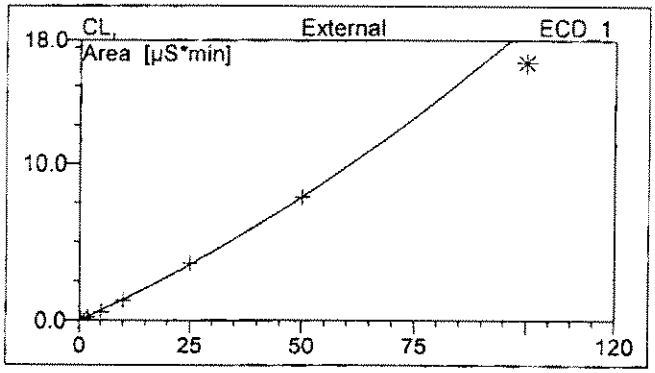
Sample Name:	**autocal10**	*Injection Volume:*	**1000.0**
Vial Number:	**275**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 11:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**

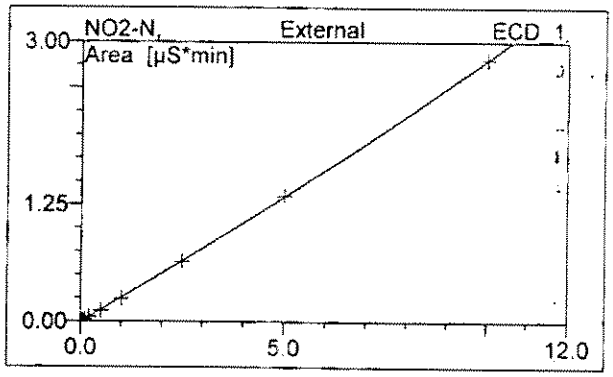


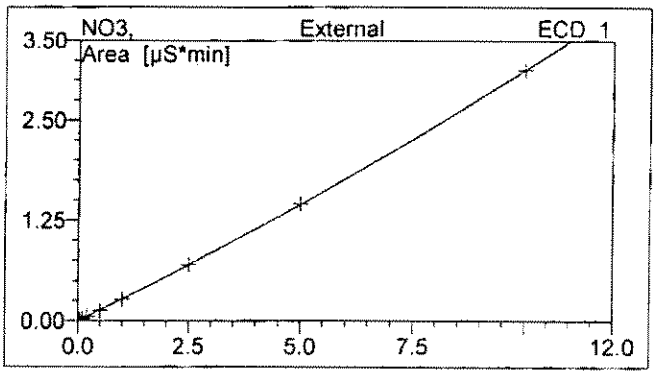
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.55	CL,	95.672	7.873	37.95	49.901	BMb
2	1.83	NO2-N,	16.290	1.340	6.46	5.037	bMB
3	2.85	Bromide	0.764	0.094	0.45	2.001	BM
4	3.23	NO3,	8.763	1.457	7.03	5.018	MB
5	6.37	SO4,	30.451	9.981	48.11	101.342	BMB
Total:			151.940	20.745	100.00	163.298	

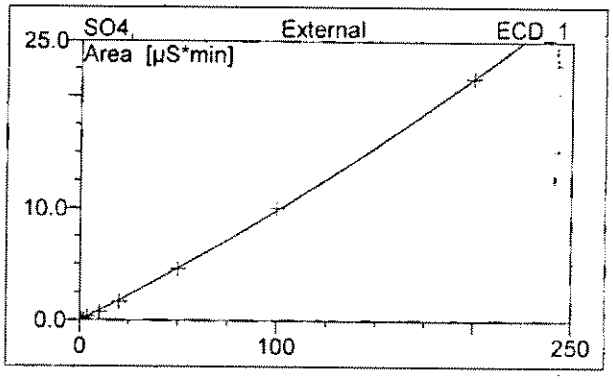
25 autocal10

Sample Name:	**autocal10**	*Injection Volume:*	**1000.0**
Vial Number:	**275**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 11:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**





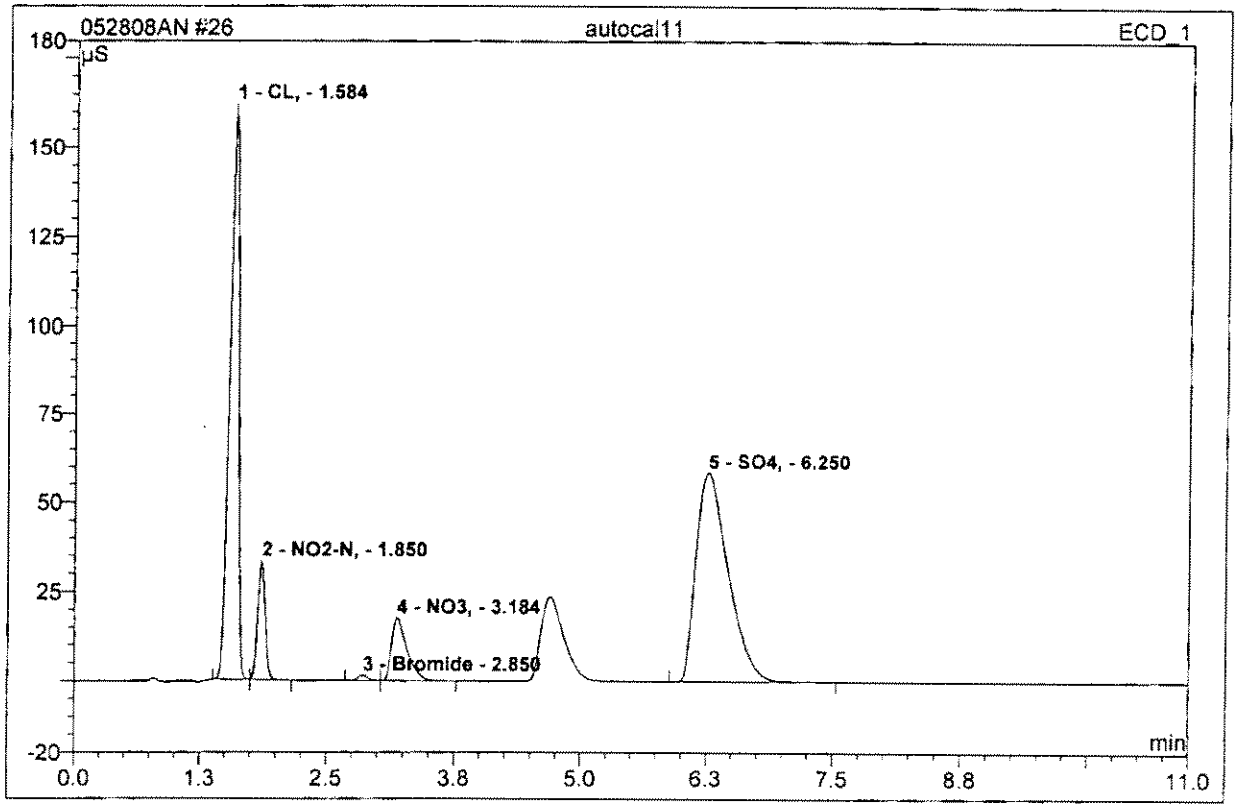




No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	1.55	CL,	Quad	8	99.8824	0.0000	0.1263	0.0006
2	1.83	NO2-N,	Quad	10	99.9597	0.0000	0.2506	0.0031
3	2.85	Bromide	Quad	7	99.9981	0.0000	0.0465	0.0002
4	3.23	NO3,	Quad	10	99.9246	0.0000	0.2672	0.0046
5	6.37	SO4,	Quad	10	99.8853	0.0000	0.0883	0.0001
Average:					99.9300	0.0000	0.1558	0.0017

26 autocal11

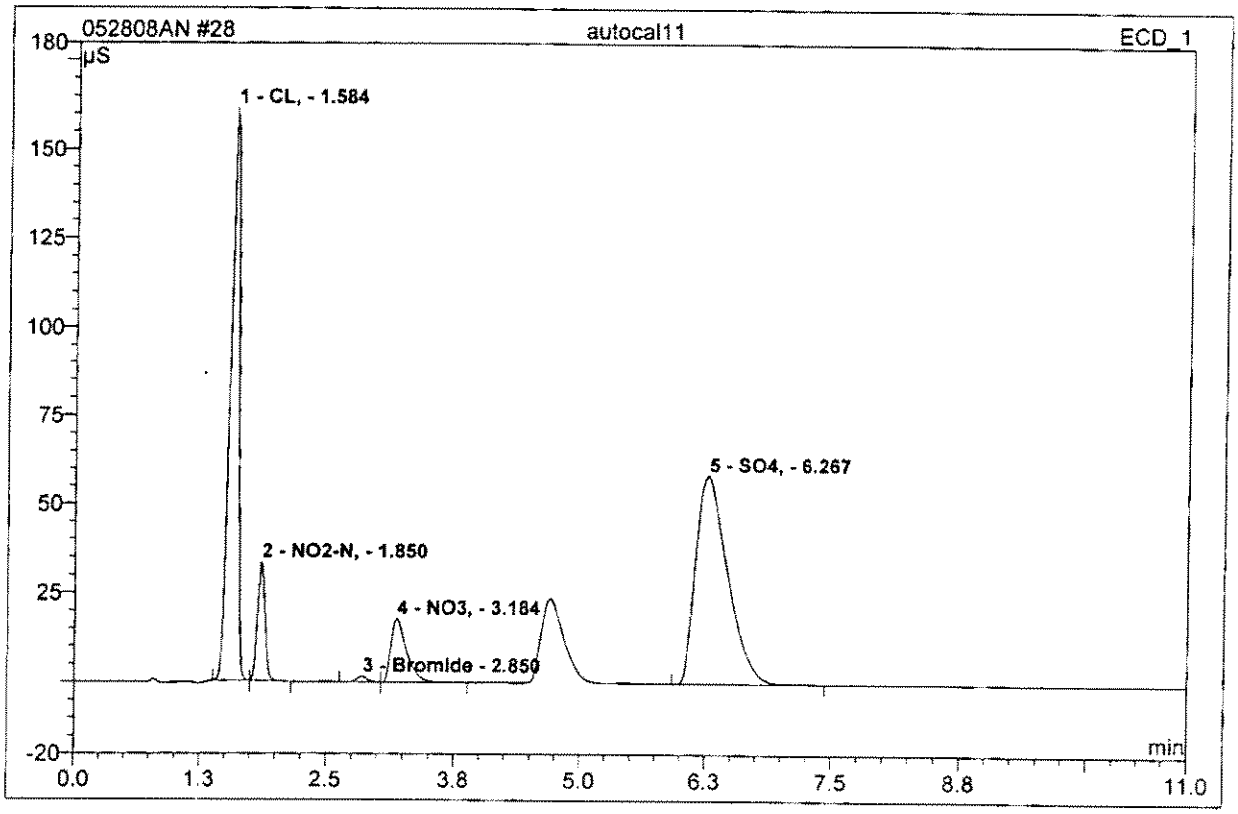
Sample Name:	**autocal11**	*Injection Volume:*	**1000.0**
Vial Number:	**271**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 11:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.58	CL,	161.889	16.506	37.26	90.130	BMb
2	1.85	NO2-N,	33.293	2.807	6.34	9.984	bMB
3	2.85	Bromide	1.555	0.189	0.43	4.000	BM
4	3.18	NO3,	17.711	3.130	7.07	9.985	MB
5	6.25	SO4,	58.580	21.668	48.91	199.953	BMB
Total:			273.028	44.300	100.00	314.051	

28 autocal11

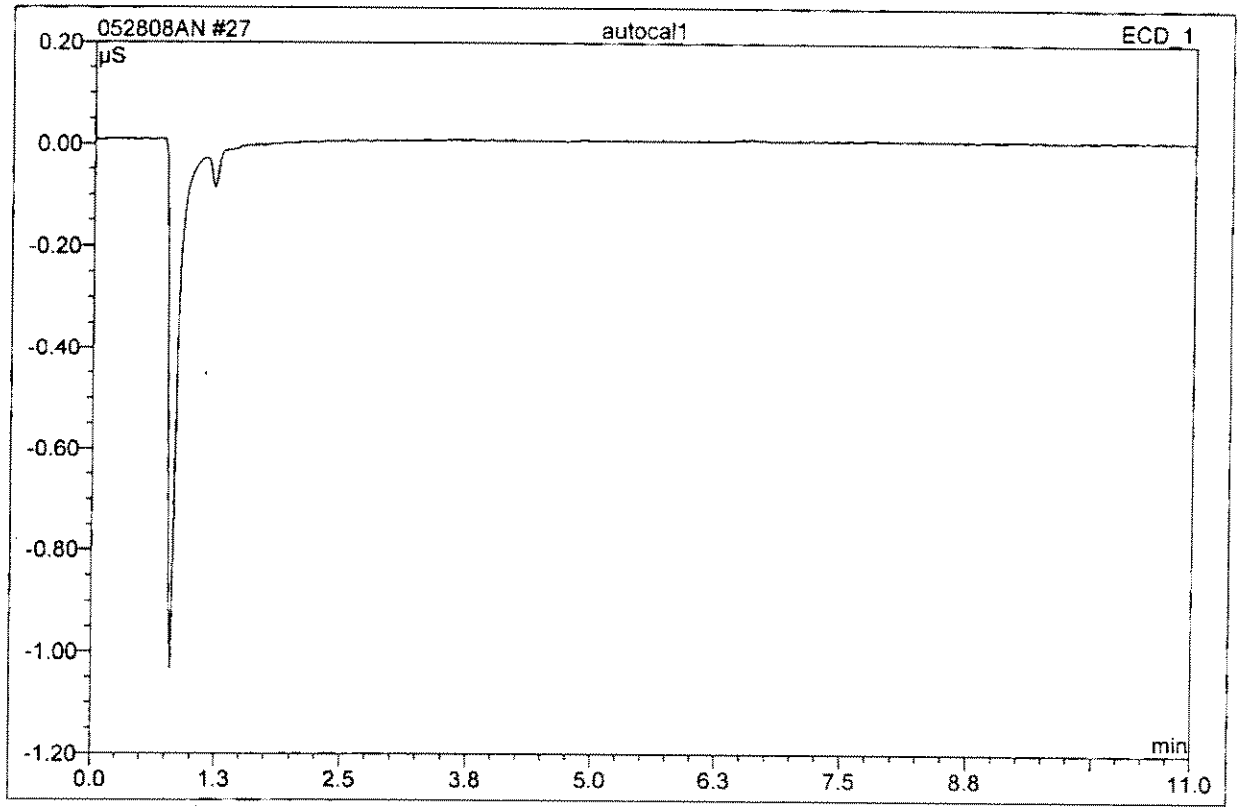
Sample Name:	**autocal11**	*Injection Volume:*	**1000.0**
Vial Number:	**197**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 12:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.58	CL,	161.243	16.535	37.31	90.254	BMb
2	1.85	NO2-N,	33.266	2.810	6.34	9.993	bMB
3	2.85	Bromide	1.566	0.189	0.43	4.000	BM
4	3.18	NO3,	17.862	3.134	7.07	9.997	MB
5	6.27	SO4,	58.578	21.645	48.84	199.771	BMB
Total:			272.514	44.313	100.00	314.014	

27 autocal1

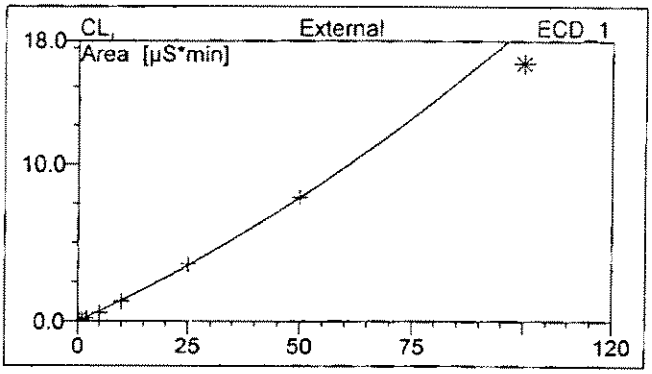
Sample Name:	**autocal1**	*Injection Volume:*	**1000.0**
Vial Number:	**272**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 12:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**

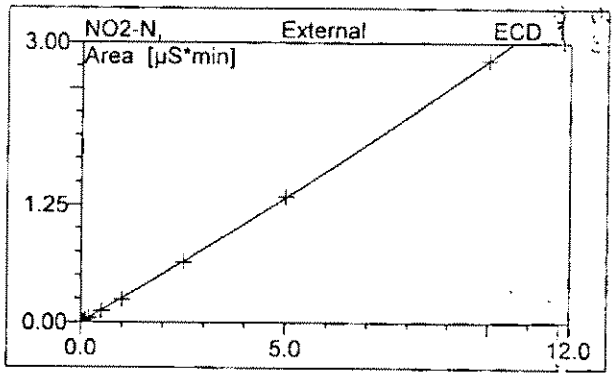


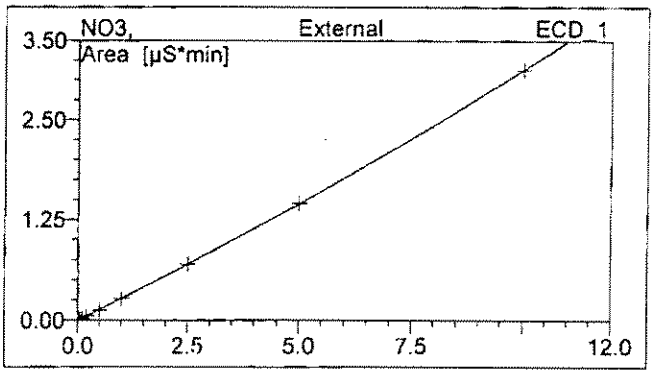
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

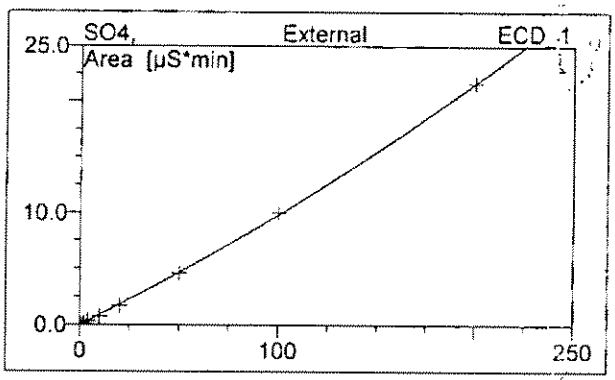
28 autocal11

Sample Name:	**autocal11**	*Injection Volume:*	**1000.0**
Vial Number:	**197**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 12:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**





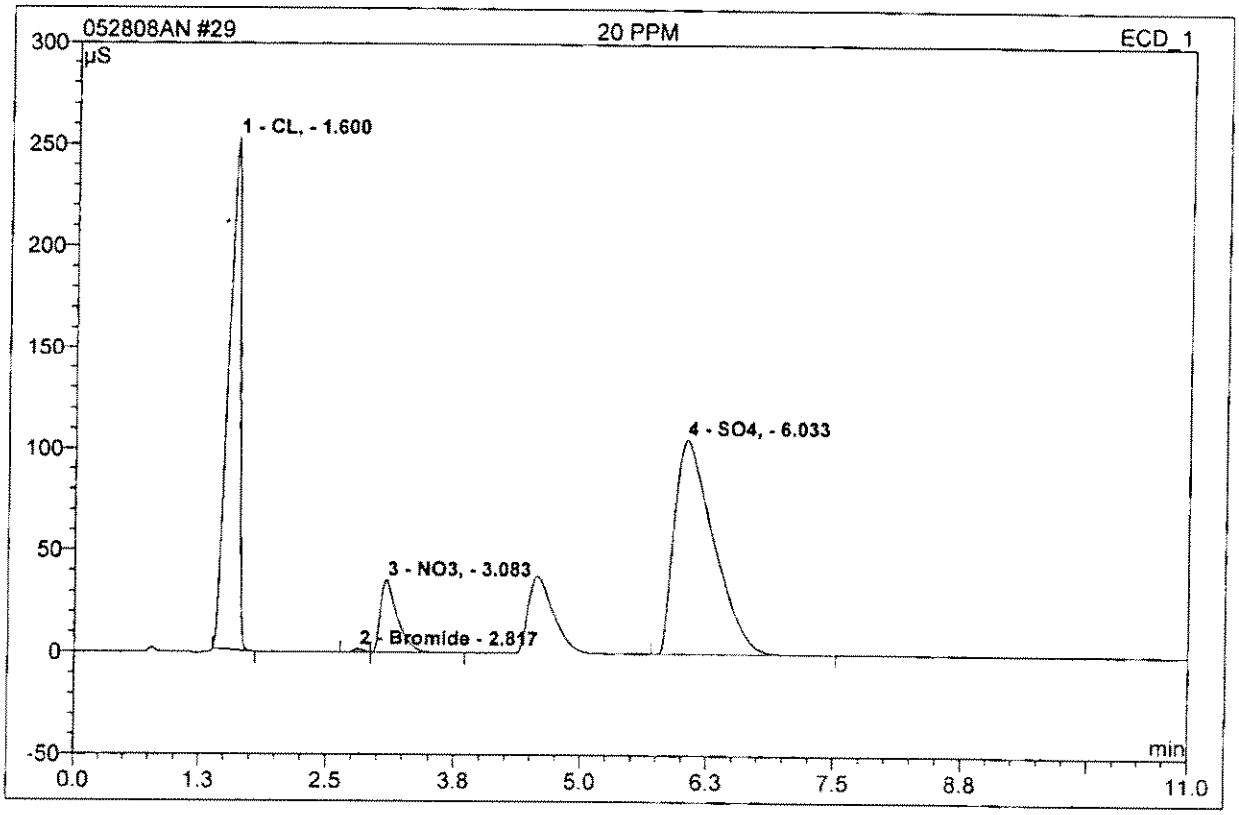




No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	1.58	CL,	Quad	8	99.8824	0.0000	0.1263	0.0006
2	1.85	NO2-N,	Quad	10	99.9597	0.0000	0.2506	0.0031
3	2.85	Bromide	Quad	7	99.9981	0.0000	0.0465	0.0002
4	3.18	NO3,	Quad	10	99.9246	0.0000	0.2672	0.0046
5	6.27	SO4,	Quad	10	99.8853	0.0000	0.0883	0.0001
Average:					99.9300	0.0000	0.1558	0.0017

29 20 PPM

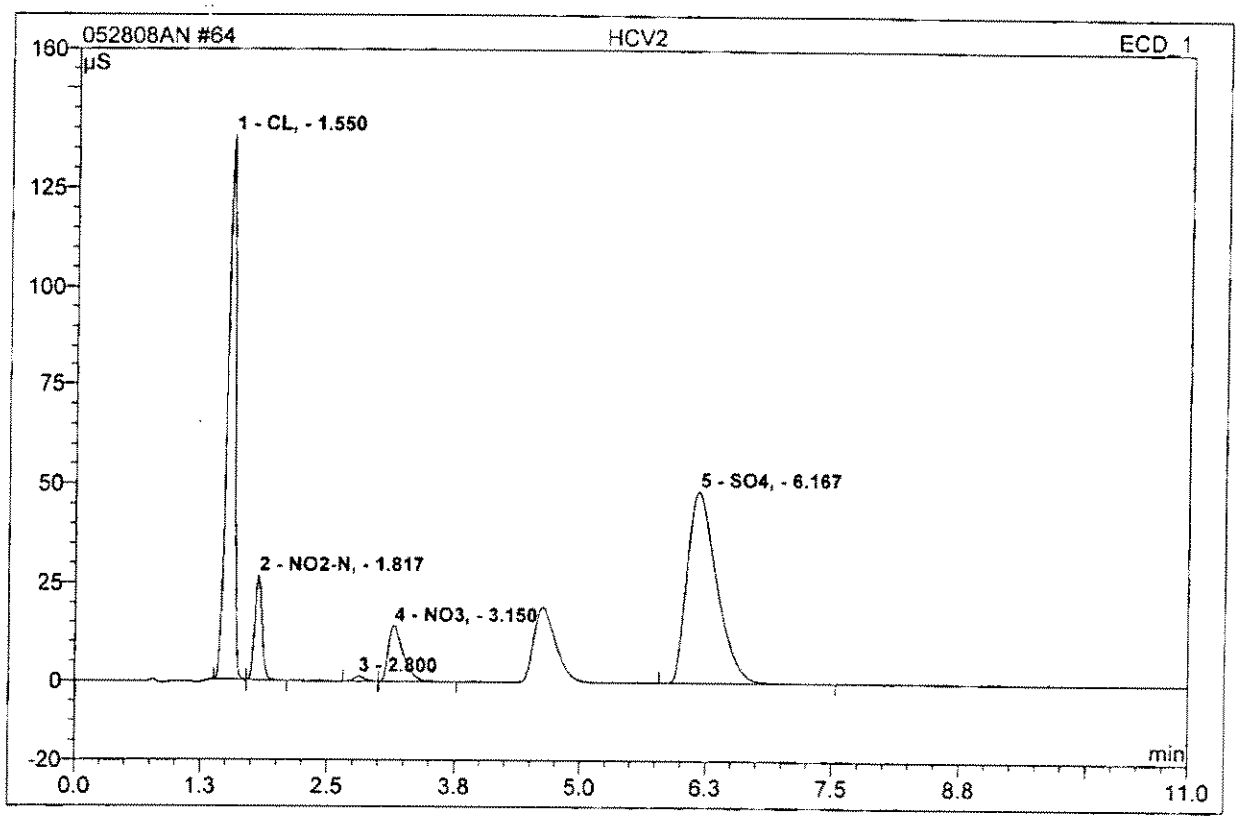
Sample Name:	**20 PPM**	*Injection Volume:*	**1000.0**
Vial Number:	**198**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 12:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	CL,	252.216	34.534	38.79	154.415	BMB
2	2.82	Bromide	1.618	0.190	0.21	4.020	BM
3	3.08	NO3,	35.588	6.806	7.65	19.126	MB
4	6.03	SO4,	105.921	47.495	53.35	376.707	BMB
Total:			395.343	89.025	100.00	554.268	

64 HCV2

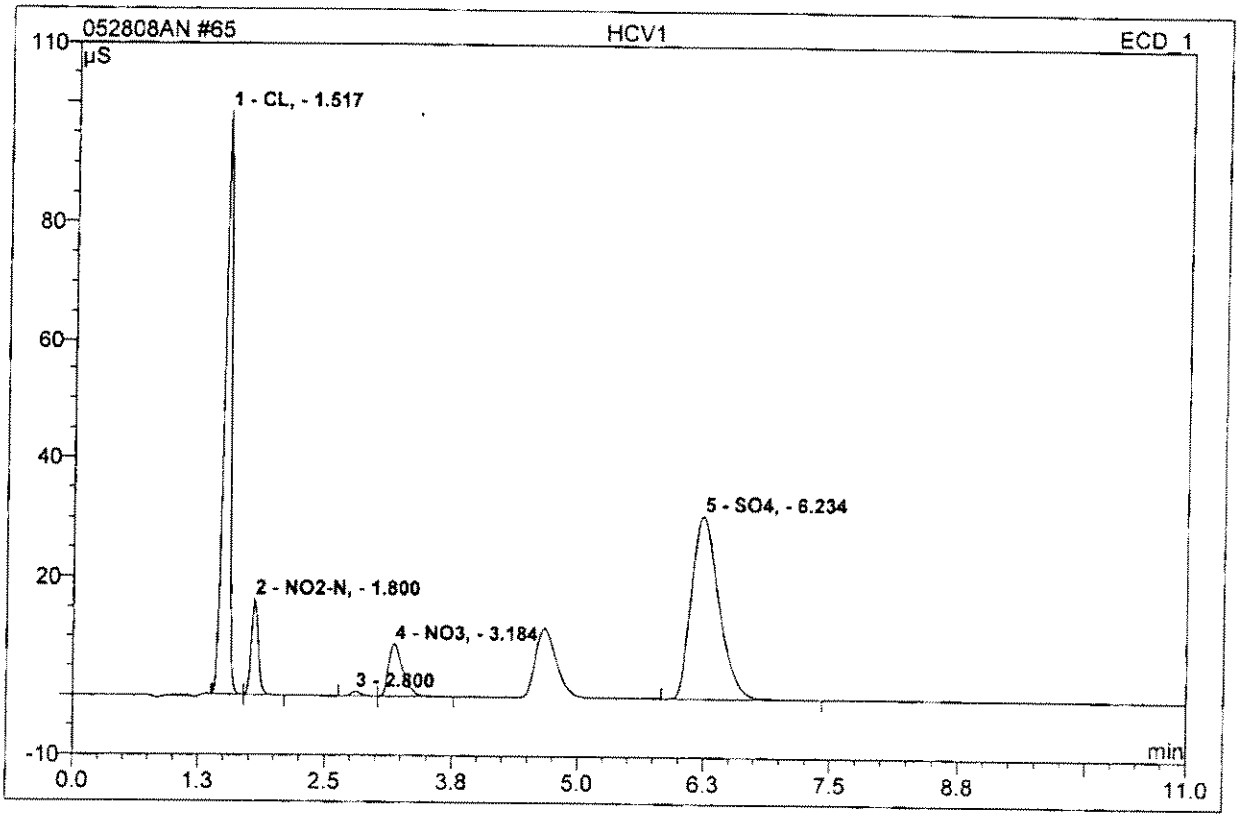
Sample Name:	**HCV2**	*Injection Volume:*	**1000.0**
Vial Number:	**243**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 20:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.55	CL,	137.843	12.765	37.42	73.843	BMb
2	1.82	NO2-N,	26.605	2.171	6.36	7.901	bMB
4	3.15	NO3,	14.266	2.402	7.04	7.907	MB
5	6.17	SO4,	48.488	16.626	48.74	159.403	BMB
Total:			227.201	33.965	99.57	249.054	

65 HCV1

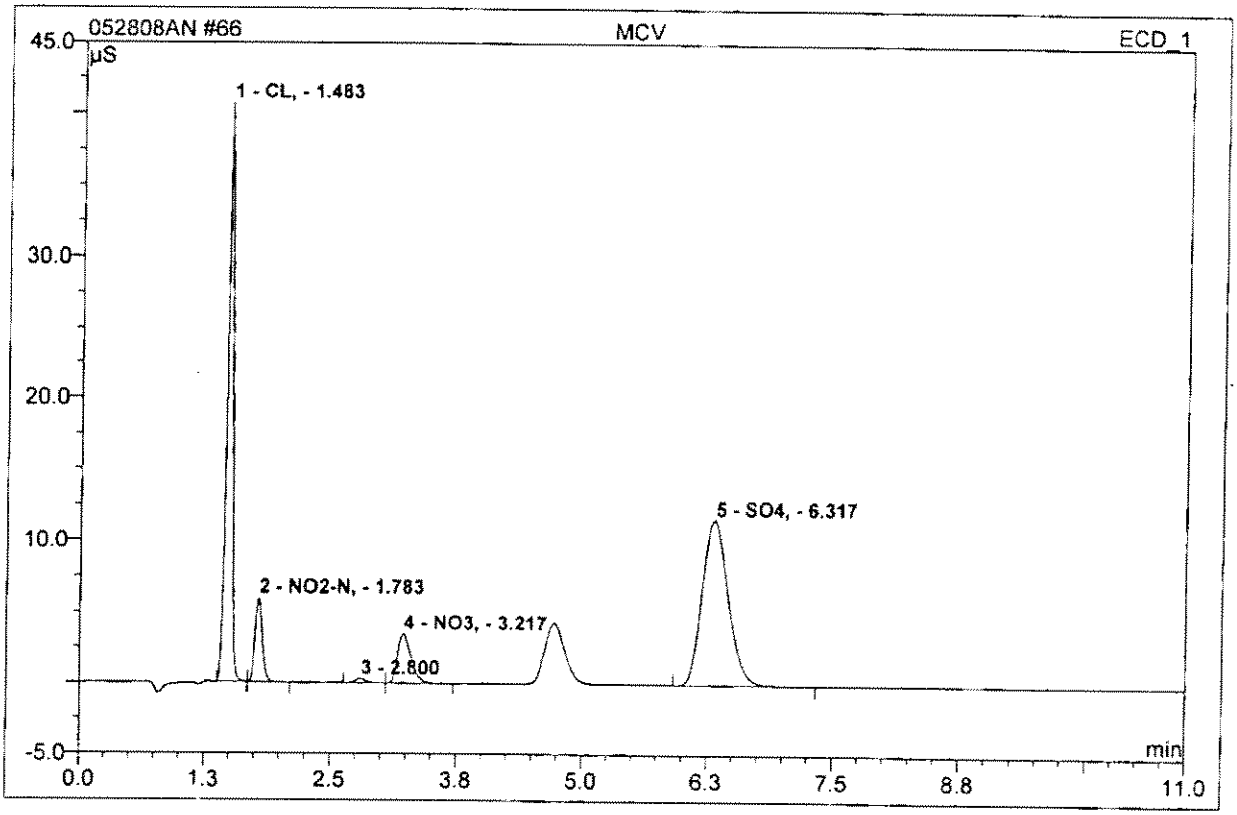
Sample Name:	**HCV1**	*Injection Volume:*	**1000.0**
Vial Number:	**244**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 21:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.52	CL,	98.330	7.734	37.84	49.162	BMb
2	1.80	NO2-N,	16.252	1.320	6.46	4.968	bMB
4	3.18	NO3,	8.789	1.439	7.04	4.960	MB
5	6.23	SO4,	30.847	9.851	48.20	100.147	BMB
Total:			154.218	20.344	99.55	159.236	

66 MCV

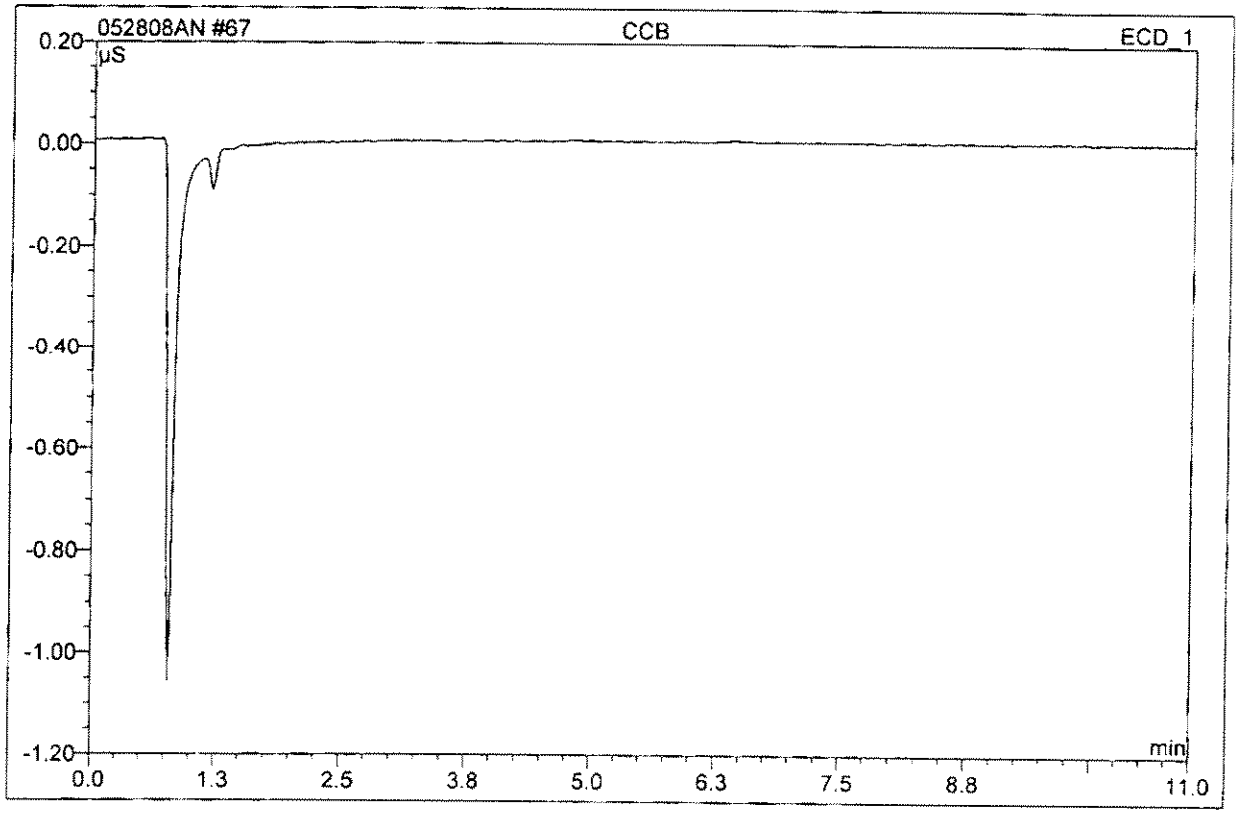
Sample Name:	**MCV**	*Injection Volume:*	**1000.0**
Vial Number:	**245**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 21:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.48	CL,	40.655	2.773	37.60	19.962	BMb
2	1.78	NO2-N,	5.937	0.497	6.73	1.936	bMB
4	3.22	NO3,	3.500	0.543	7.36	1.964	bMB
5	6.32	SO4,	11.593	3.526	47.81	38.259	BMB
Total:			61.684	7.338	99.50	62.122	

67 CCB

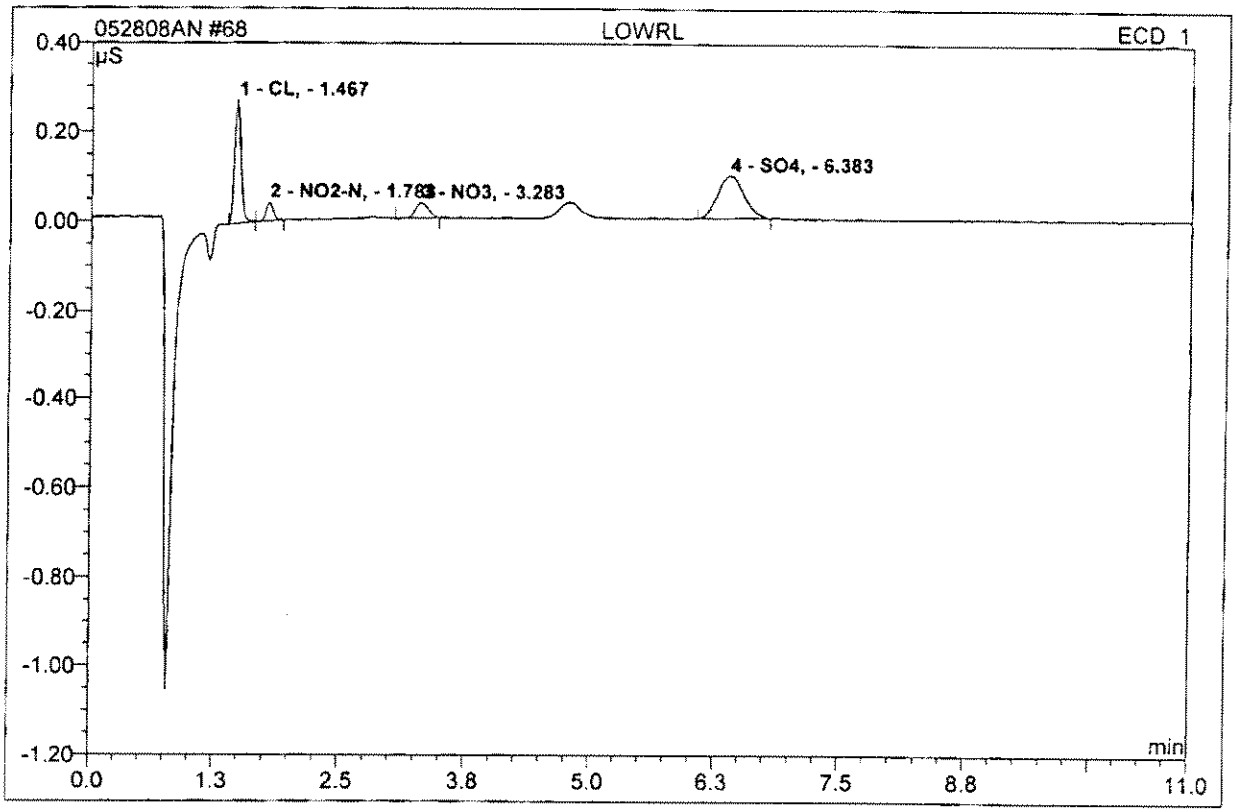
Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**246**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 21:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**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	

68 LOWRL

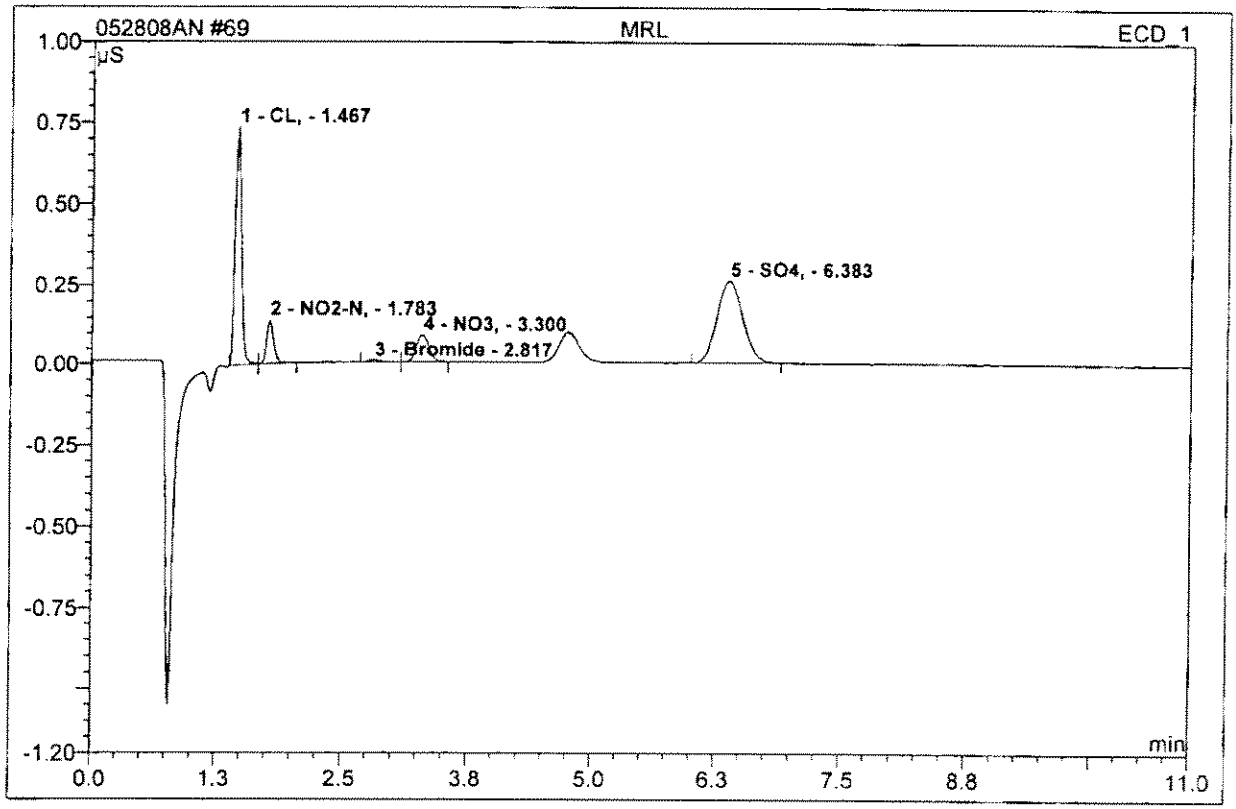
Sample Name:	**LOWRL**	*Injection Volume:*	**1000.0**
Vial Number:	**247**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 21:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.47	CL,	0.275	0.020	34.78	0.157	BM
2	1.78	NO2-N,	0.041	0.004	6.19	0.014	MB
3	3.28	NO3,	0.033	0.005	8.59	0.018	BMB
4	6.38	SO4,	0.094	0.029	50.45	0.325	BMB
Total:			0.443	0.057	100.00	0.514	

69 MRL

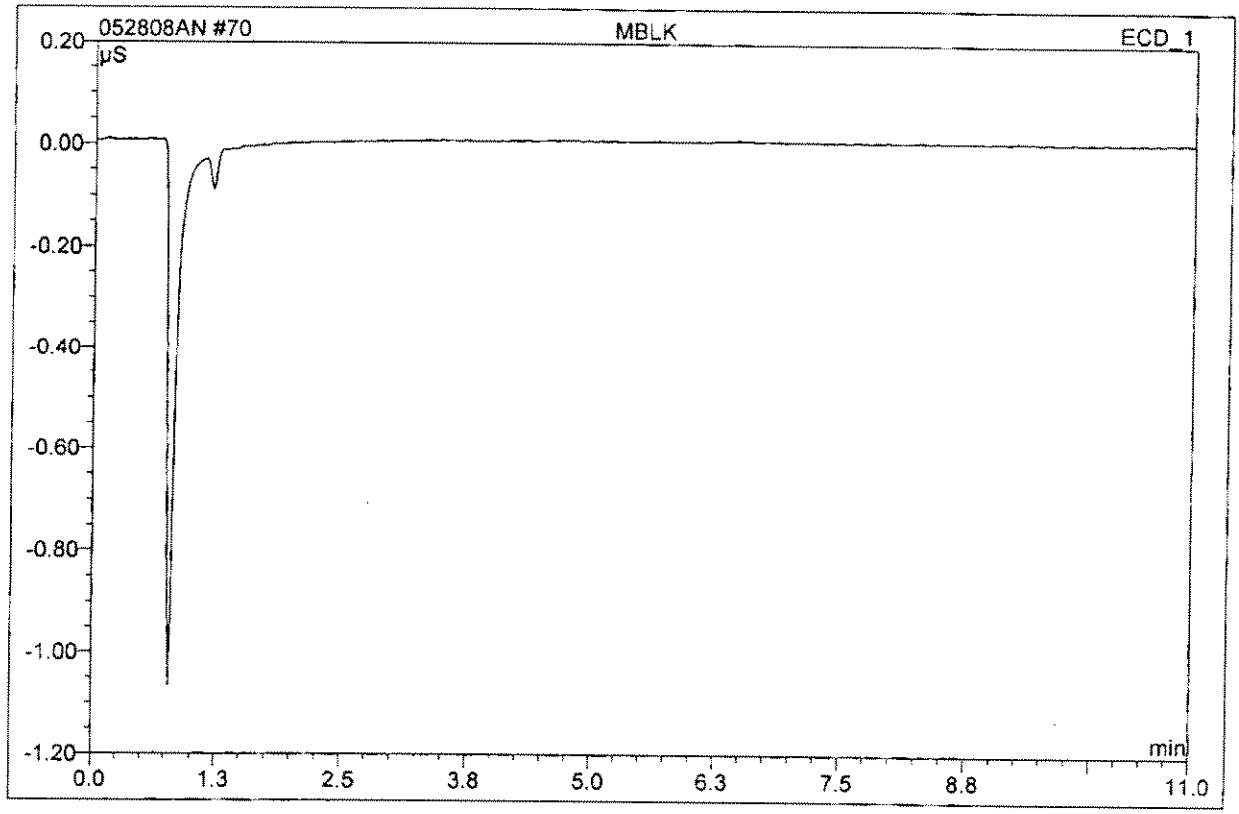
Sample Name:	**MRL**	*Injection Volume:*	**1000.0**
Vial Number:	**248**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 22:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.47	CL,	0.739	0.053	33.18	0.415	BM
2	1.78	NO2-N,	0.142	0.012	7.78	0.049	MB
3	2.82	Bromide	0.008	0.001	0.70	0.024	BM
4	3.30	NO3,	0.088	0.013	8.40	0.050	MB
5	6.38	SO4,	0.256	0.079	49.93	0.894	BMB
Total:			1.234	0.158	100.00	1.431	

70 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**1000.0**
Vial Number:	**249**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 22:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**

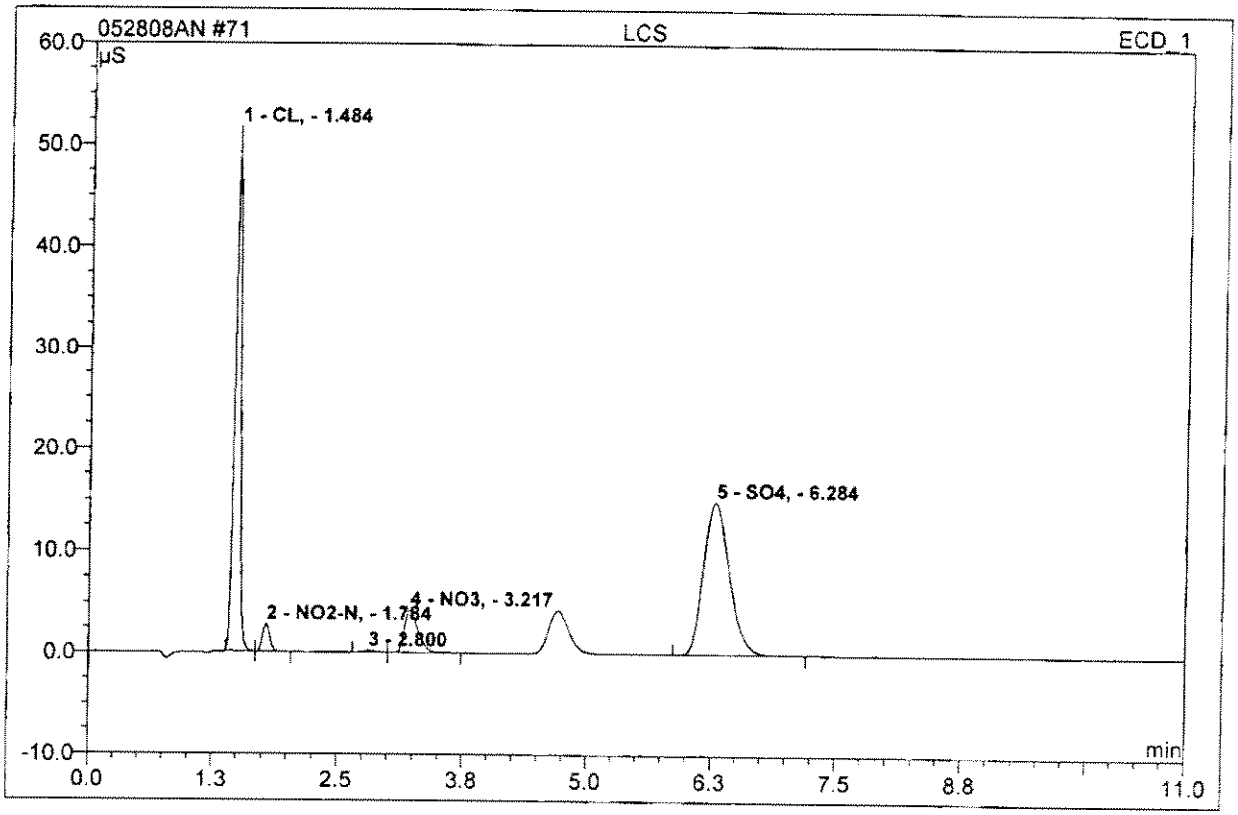


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

71 LCS

R201756

Sample Name:	**LCS**	*Injection Volume:*	**1000.0**
Vial Number:	**250**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 22:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**

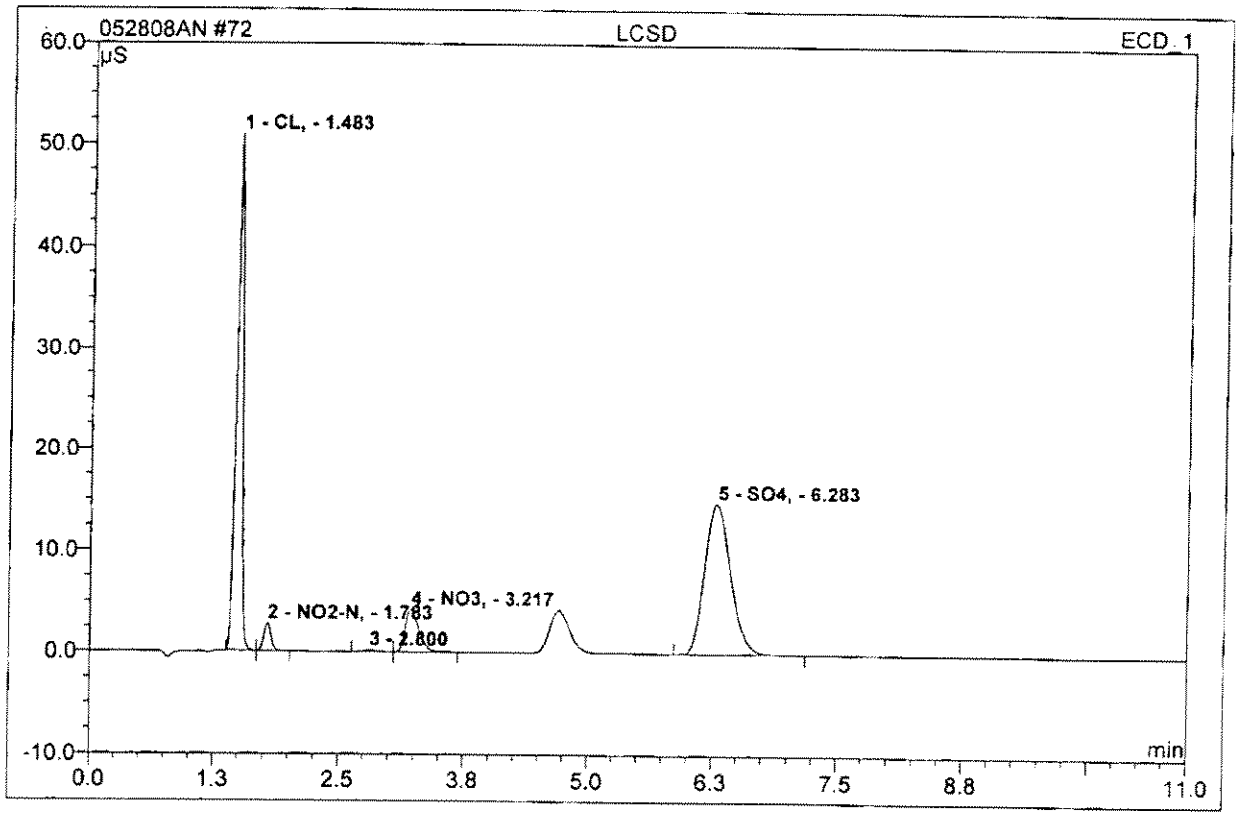


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.48	CL,	51.644	3.590	39.49	25.242	BMb
2	1.78	NO2-N,	2.784	0.232	2.55	0.917	bMB
4	3.22	NO3,	4.286	0.673	7.40	2.418	MB
5	6.28	SO4,	14.984	4.573	50.30	49.043	BMB
Total:			73.698	9.069	99.75	77.620	

72 LCSD

R201756

Sample Name:	**LCSD**	*Injection Volume:*	**1000.0**
Vial Number:	**251**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/28/2008 22:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**

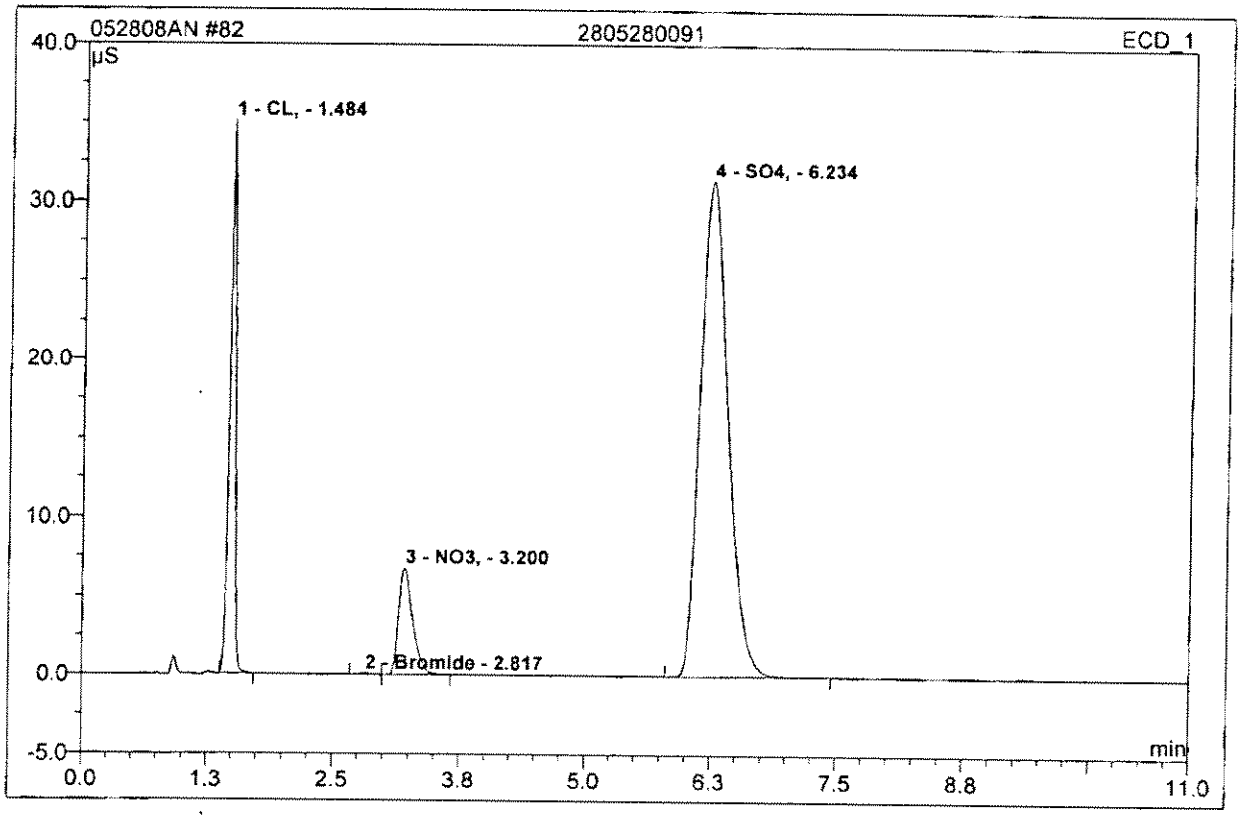


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.48	CL,	50.910	3.542	39.45	24.934	BMb
2	1.78	NO2-N,	2.768	0.231	2.58	0.913	bMB
4	3.22	NO3,	4.231	0.664	7.39	2.386	bMB
5	6.28	SO4,	14.829	4.517	50.32	48.477	BMB
Total:			72.738	8.954	99.74	76.711	

82 2805280091

DNR SO4

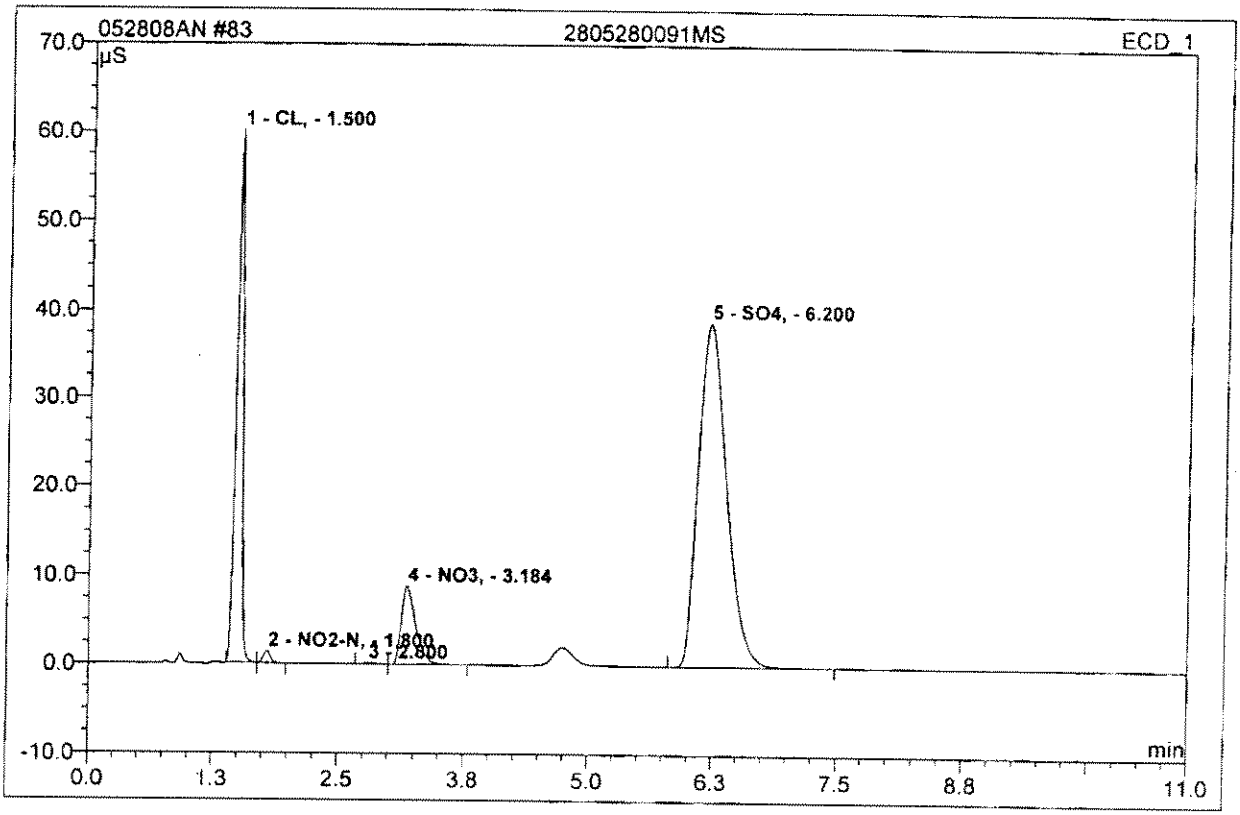
Sample Name:	**2805280091**	*Injection Volume:*	**1000.0**
Vial Number:	**261**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/29/2008 0:58**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.48	CL,	35.051	2.399	17.63	17.471	BMB
2	2.82	Bromide	0.050	0.006	0.05	0.133	BMb
3	3.20	NO3,	6.759	1.087	7.99	3.816	bMB
4	6.23	SO4,	31.436	10.114	74.33	102.567	BMB
Total:			73.296	13.607	100.00	123.988	

83 2805280091MS

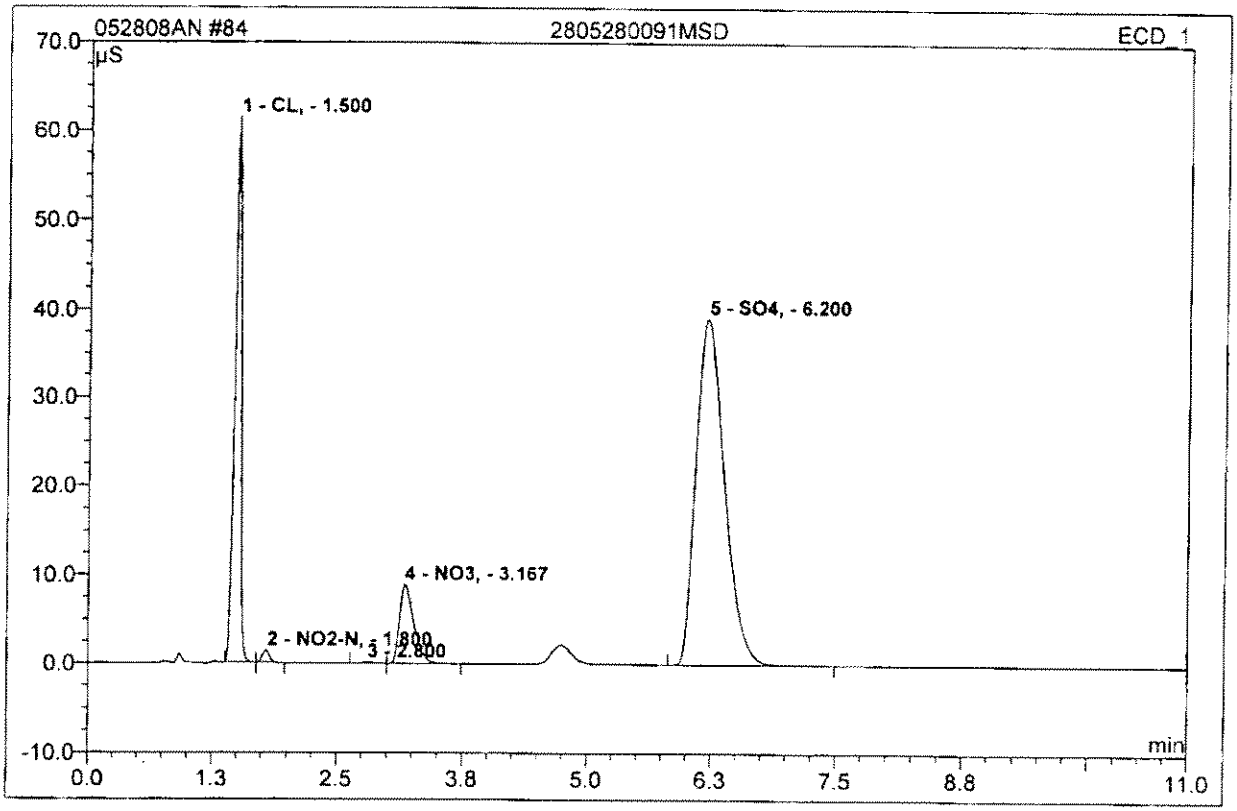
Sample Name:	**2805280091MS**	*Injection Volume:*	**1000.0**
Vial Number:	**262**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/29/2008 1:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.50	CL,	60.115	4.406	23.30	30.298	BMb
2	1.80	NO2-N,	1.379	0.114	0.61	0.454	bMB
4	3.18	NO3,	8.836	1.459	7.71	5.022	bMB
5	6.20	SO4,	38.913	12.914	68.29	127.706	BMB
Total:			109.243	18.893	99.91	163.481	

84 2805280091MSD

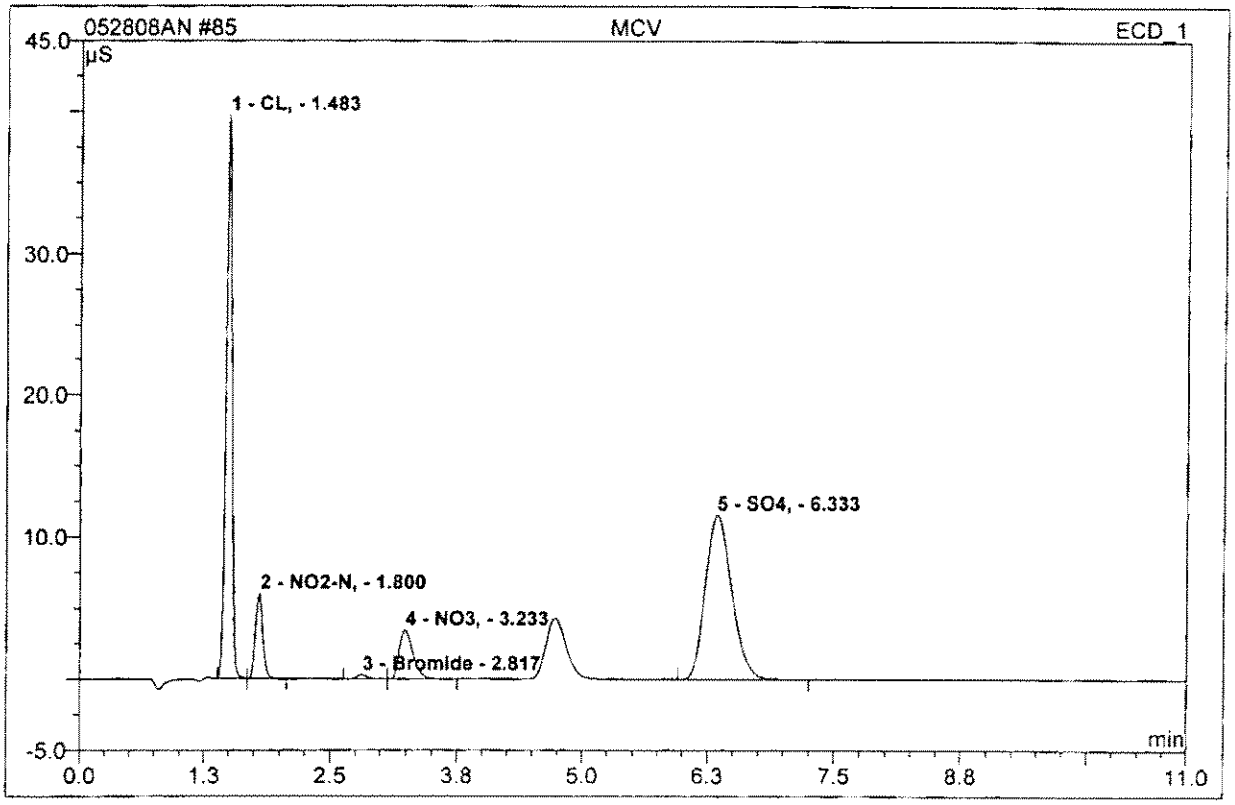
Sample Name:	**2805280091MSD**	*Injection Volume:*	**1000.0**
Vial Number:	**263**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/29/2008 1:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.50	CL,	61.403	4.486	23.48	30.781	BMb
2	1.80	NO2-N,	1.418	0.117	0.61	0.466	bMB
4	3.17	NO3,	8.929	1.472	7.71	5.066	MB
5	6.20	SO4,	39.177	13.014	68.11	128.576	BMB
Total:			110.927	19.089	99.91	164.889	

85 MCV

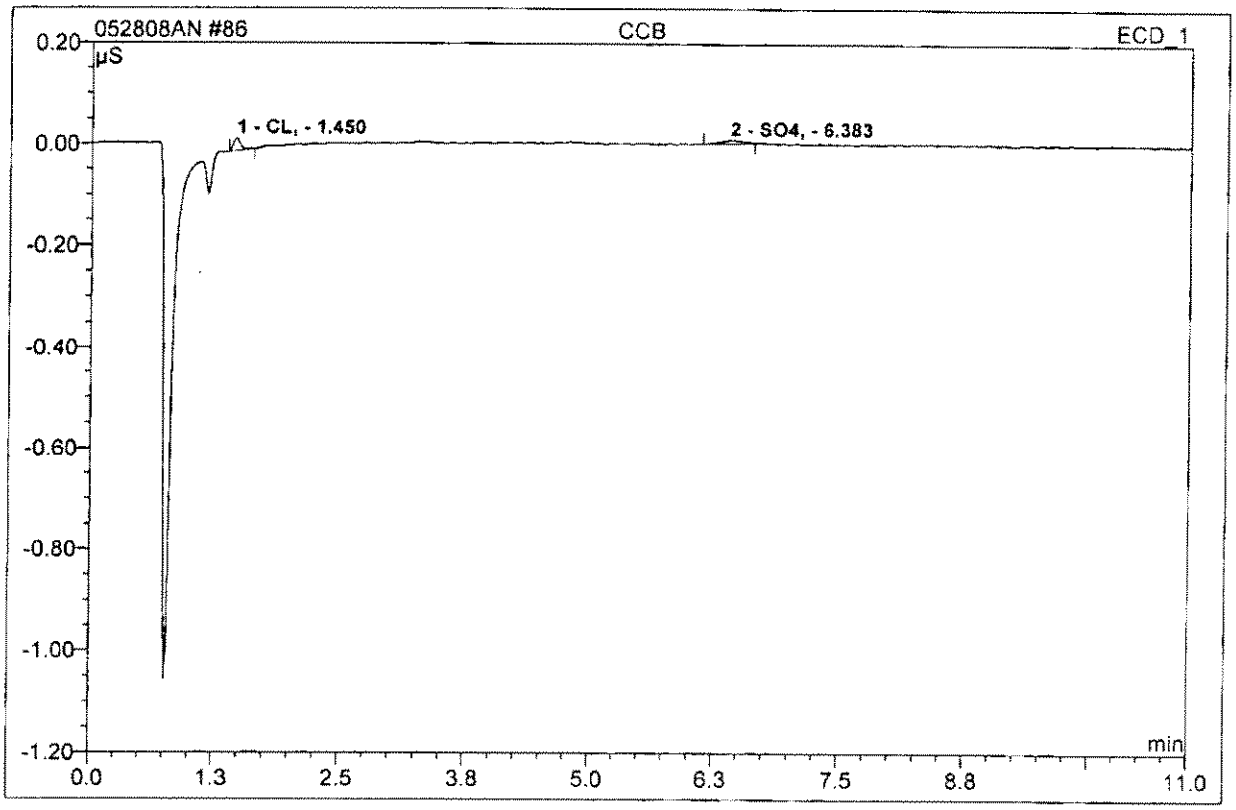
Sample Name:	**MCV**	*Injection Volume:*	**1000.0**
Vial Number:	**264**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/29/2008 1:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.48	CL,	39.699	2.786	37.68	20.048	BMb
2	1.80	NO2-N,	5.992	0.495	6.70	1.931	bMB
3	2.82	Bromide	0.299	0.037	0.50	0.793	BM
4	3.23	NO3,	3.502	0.543	7.35	1.967	MB
5	6.33	SO4,	11.565	3.532	47.77	38.321	BMB
Total:			61.058	7.394	100.00	63.060	

86 CCB

Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**265**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/29/2008 1:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**

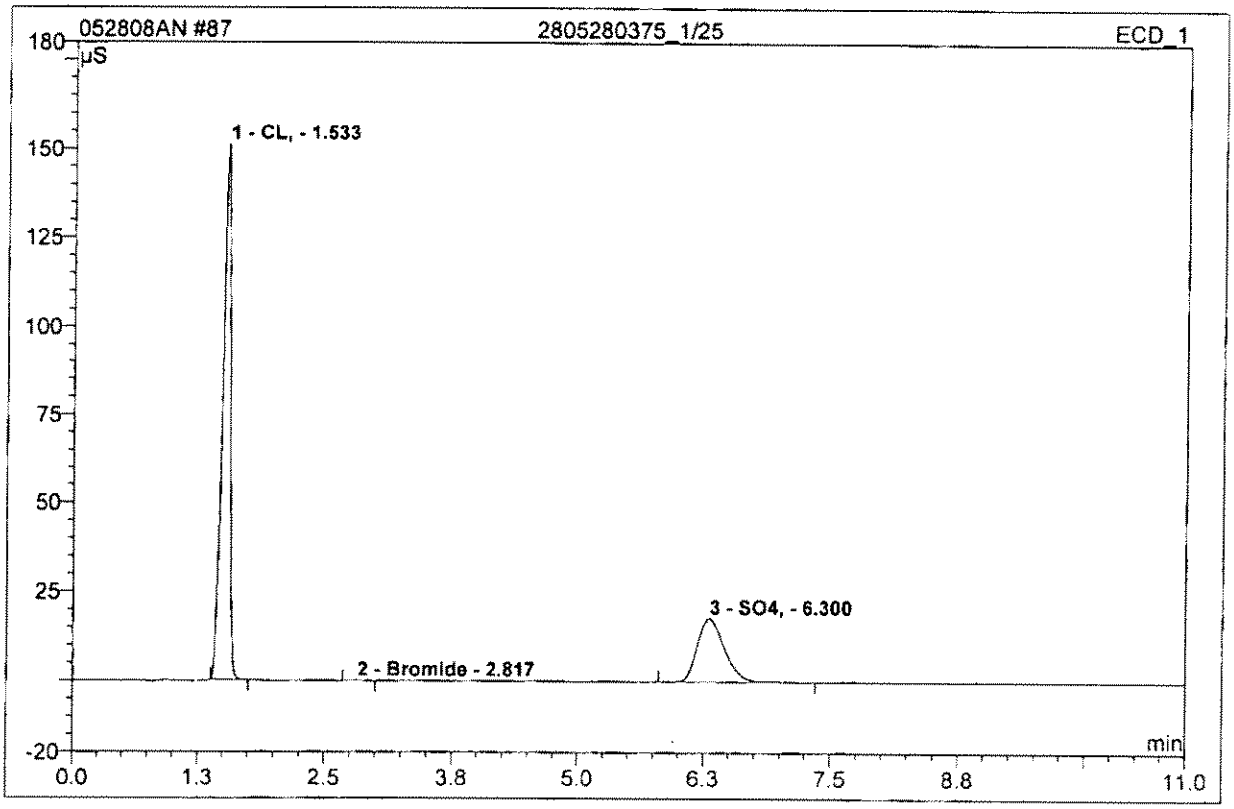


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.45	CL,	0.025	0.002	53.03	0.016	BMB
2	6.38	SO4,	0.006	0.002	46.97	0.020	BMB
Total:			0.031	0.004	100.00	0.036	

87 2805280375_1/25

DNR CL

Sample Name:	**2805280375_1/25**	*Injection Volume:*	**1000.0**
Vial Number:	**266**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**25.0000**
Recording Time:	**5/29/2008 2:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**

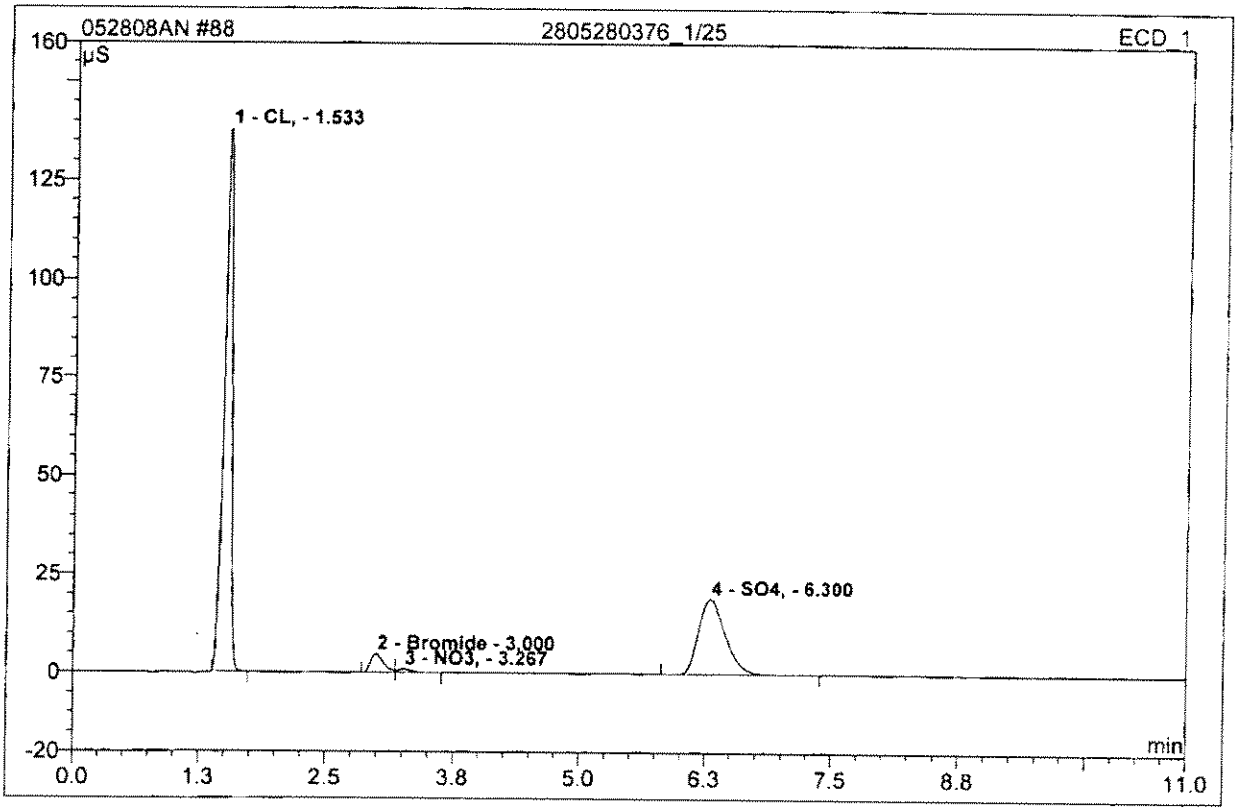


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.53	CL,	151.081	14.116	71.85	1997.426	BMB
2	2.82	Bromide	0.017	0.002	0.01	1.191	BMB
3	6.30	SO4,	17.892	5.527	28.13	1466.779	BMB
Total:			168.990	19.646	100.00	3465.396	

88 2805280376_1/25

DNR CL

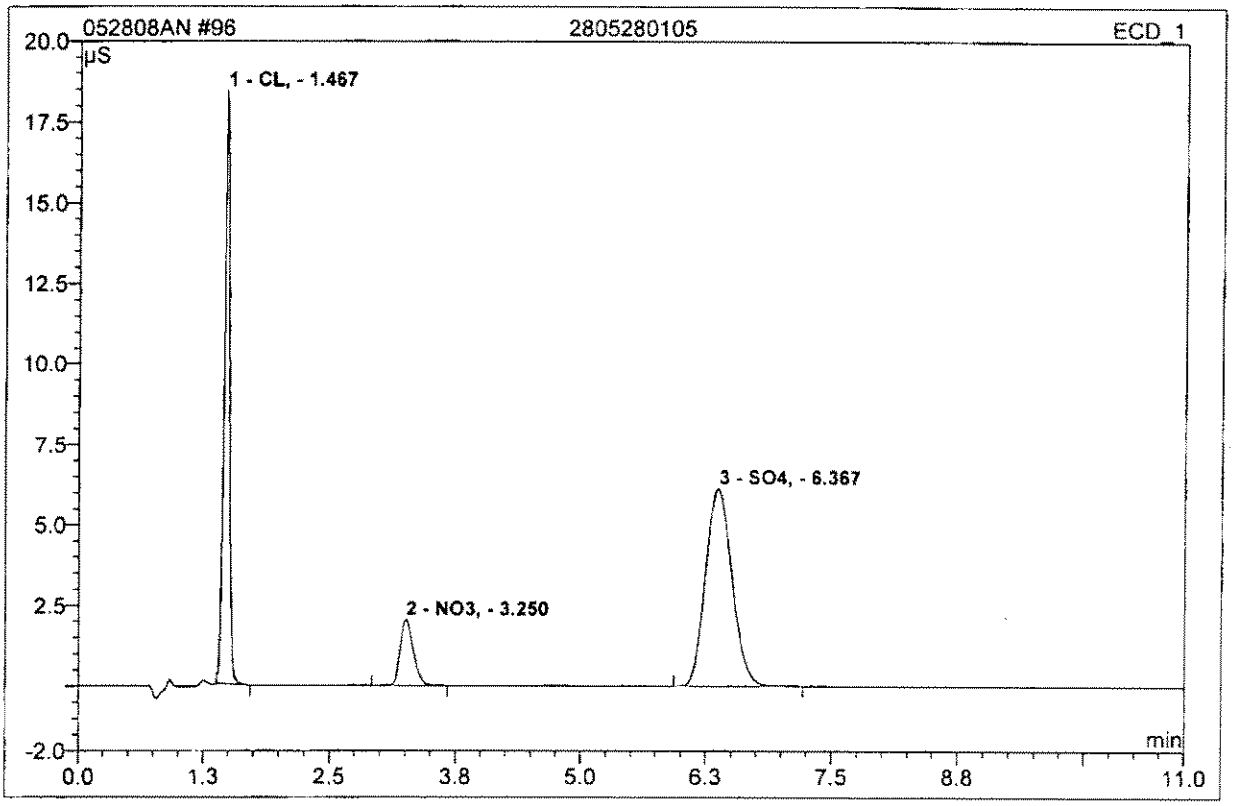
Sample Name:	**2805280376_1/25**	*Injection Volume:*	**1000.0**
Vial Number:	**267**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**25.0000**
Recording Time:	**5/29/2008 2:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.53	CL,	137.762	12.759	65.36	1845.436	BMB
2	3.00	Bromide	4.701	0.698	3.58	354.265	BM
3	3.27	NO3,	0.928	0.145	0.74	13.457	MB
4	6.30	SO4,	19.103	5.918	30.32	1564.117	BMB
Total:			162.493	19.521	100.00	3777.276	

96 2805280105

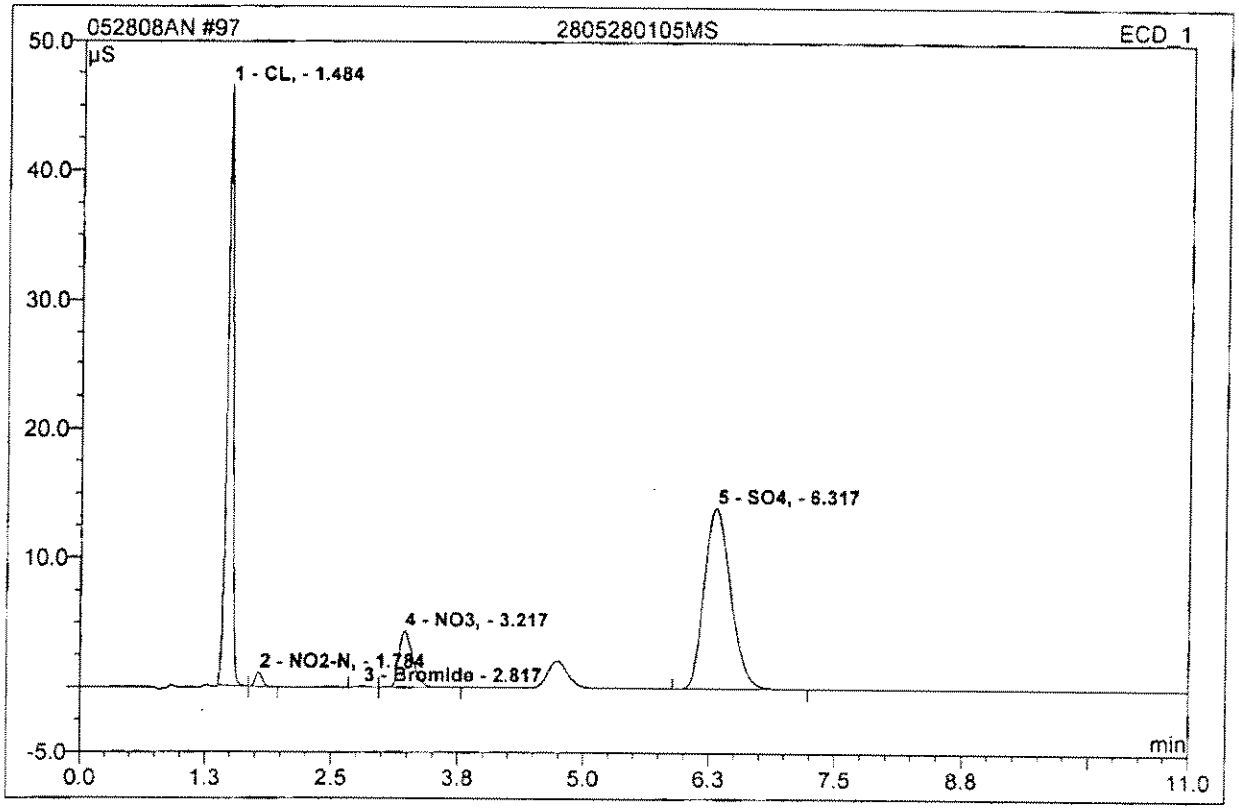
Sample Name:	**2805280105**	*Injection Volume:*	**1000.0**
Vial Number:	**275**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/29/2008 4:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.47	CL,	18.388	1.245	36.23	9.410	BMB
2	3.25	NO3,	2.048	0.317	9.23	1.163	BMB
3	6.37	SO4,	6.131	1.873	54.54	20.719	BMB
Total:			26.567	3.435	100.00	31.292	

97 2805280105MS

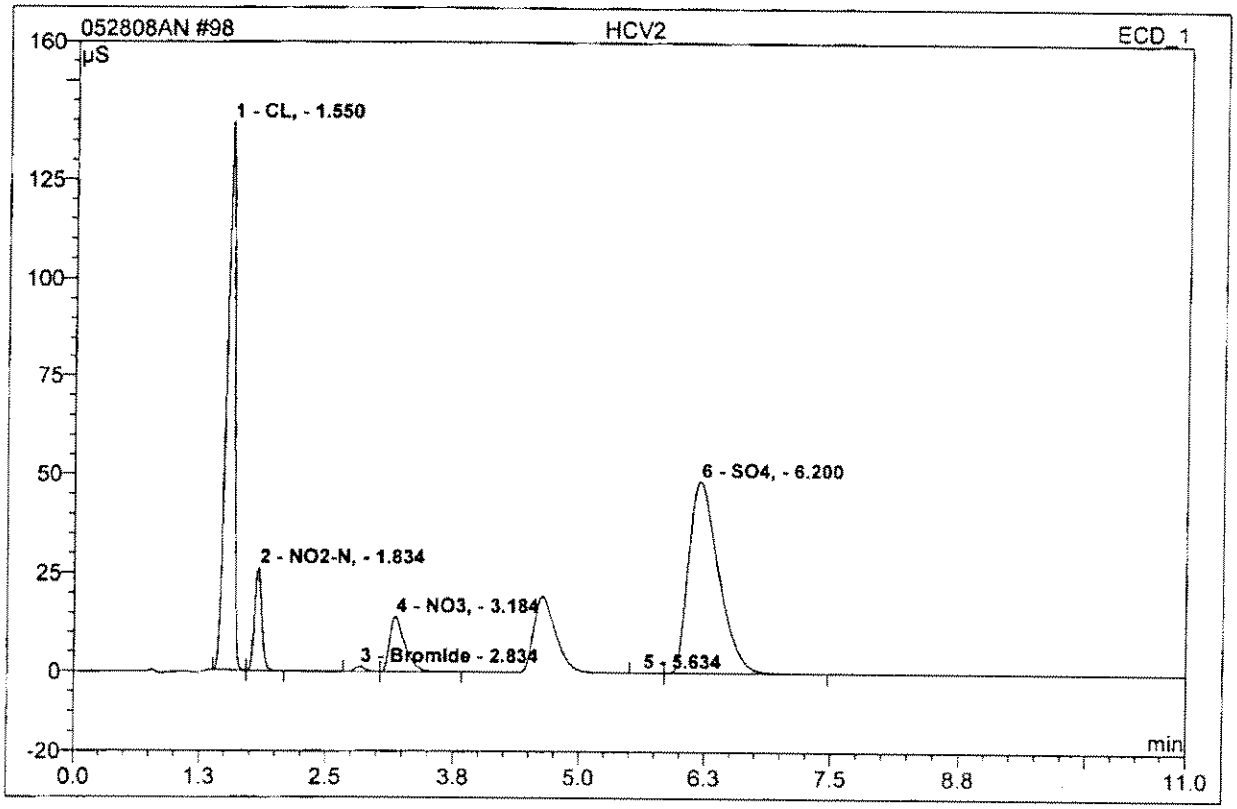
Sample Name:	**2805280105MS**	*Injection Volume:*	**1000.0**
Vial Number:	**276**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/29/2008 4:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.48	CL,	46.418	3.183	38.54	22.641	BMb
2	1.78	NO2-N,	1.110	0.090	1.09	0.357	bMB
3	2.82	Bromide	0.105	0.013	0.16	0.275	BM
4	3.22	NO3,	4.375	0.693	8.39	2.486	MB
5	6.32	SO4,	13.973	4.280	51.82	46.051	BMB
Total:			65.982	8.259	100.00	71.810	

98 HCV2

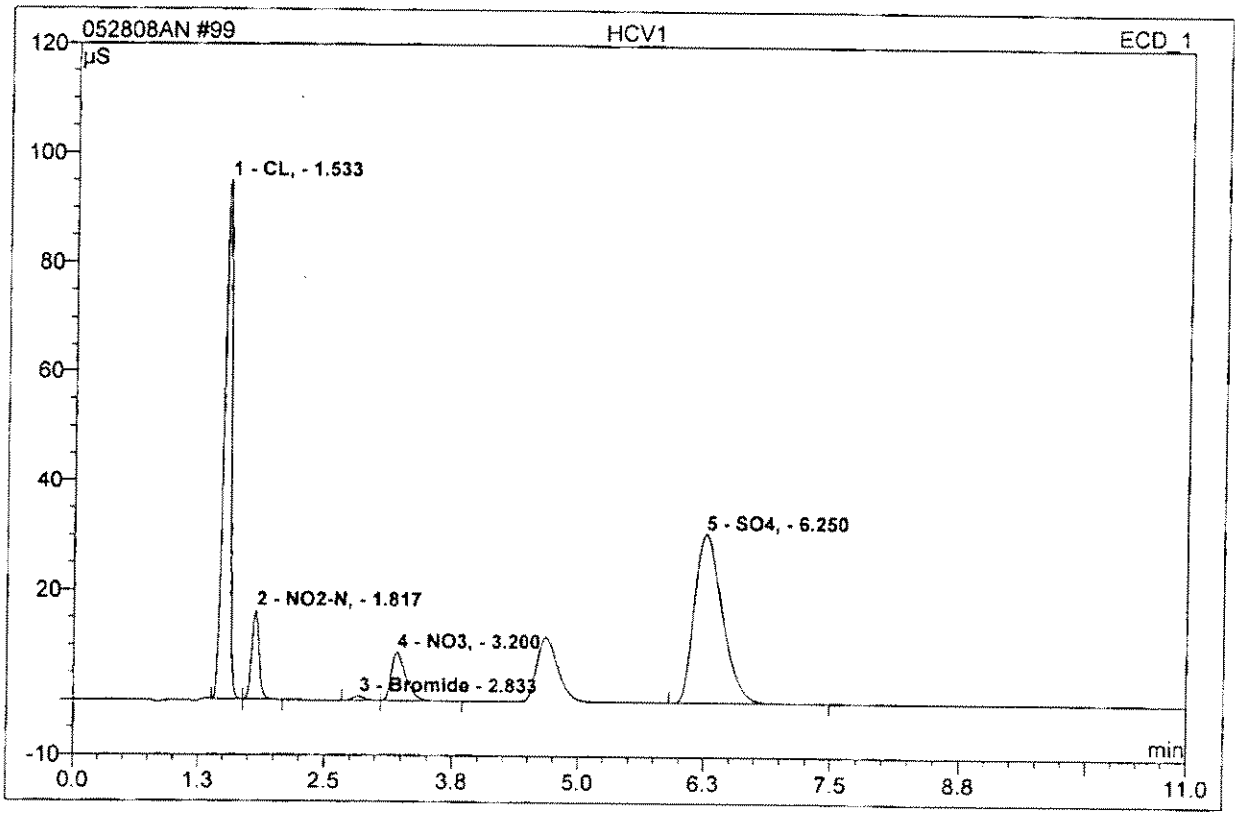
Sample Name:	**HCV2**	*Injection Volume:*	**1000.0**
Vial Number:	**277**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/29/2008 4:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.55	CL,	139.080	12.881	37.45	74.372	BMb
2	1.83	NO2-N,	26.084	2.181	6.34	7.935	bMB
3	2.83	Bromide	1.237	0.149	0.43	3.171	BM
4	3.18	NO3,	14.049	2.421	7.04	7.962	MB
6	6.20	SO4,	48.580	16.757	48.72	160.487	MB
Total:			229.030	34.390	99.99	253.927	

99 HCV1

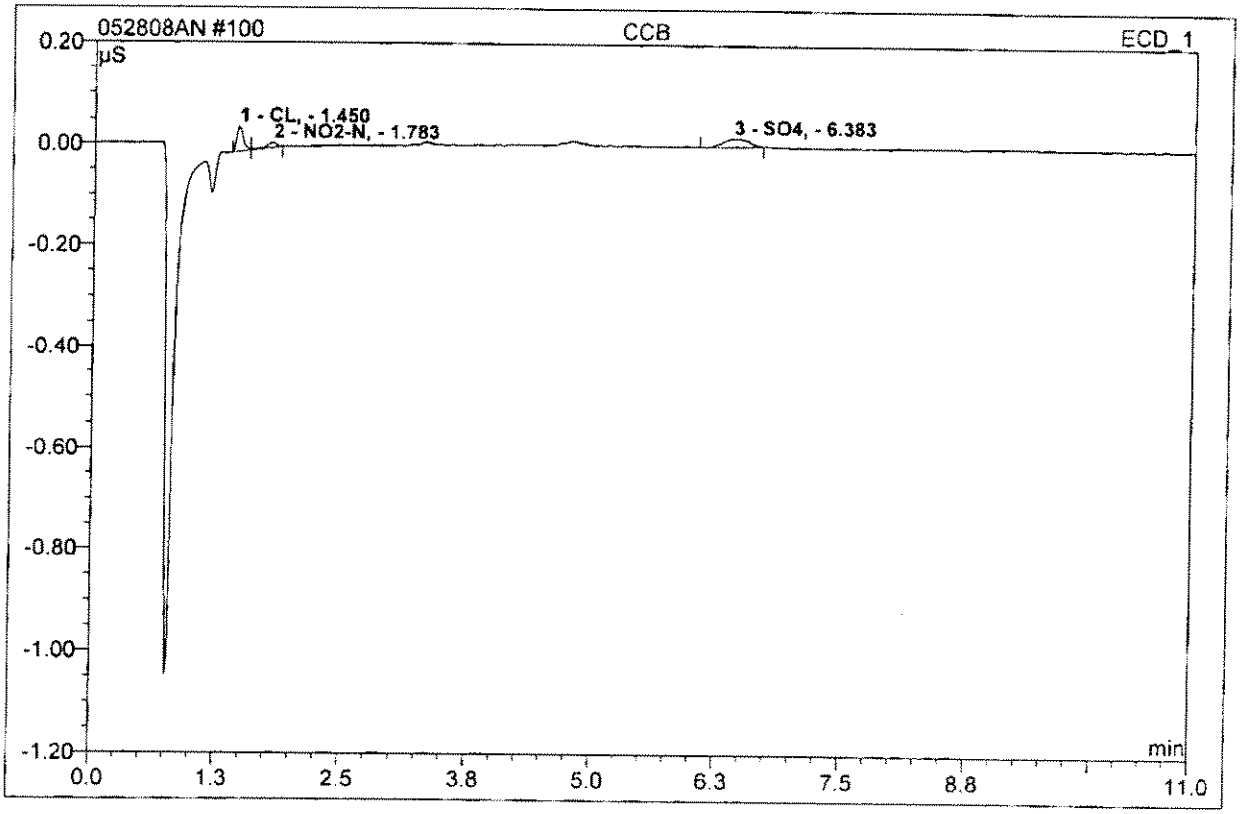
Sample Name:	**HCV1**	*Injection Volume:*	**1000.0**
Vial Number:	**278**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/29/2008 4:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.53	CL,	94.865	7.772	37.86	49.367	BMb
2	1.82	NO2-N,	16.243	1.327	6.46	4.992	bMB
3	2.83	Bromide	0.758	0.093	0.45	1.991	BM
4	3.20	NO3,	8.774	1.446	7.04	4.981	MB
5	6.25	SO4,	30.810	9.890	48.18	100.509	BMB
Total:			151.450	20.529	100.00	161.840	

100 CCB

Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**279**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC#3-ANION TTL2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**ANION-IC#3**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/29/2008 5:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**11.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.45	CL,	0.049	0.004	38.41	0.029	BM
2	1.78	NO2-N,	0.010	0.001	11.53	0.004	MB
3	6.38	SO4,	0.016	0.005	50.06	0.054	BMB
Total:			0.075	0.010	100.00	0.088	

Standard Preparation Worksheet & Certificate of Analysis

CPI INTERNATIONAL

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Innovative Solutions in Analytical Science and Technology

Expiry: 11/1/2009

Certificate of Analysis

Part Number: **4400-050110rh03** **Solution A**
Lot Number: **08E004**
Shelf Life: **18 months**

MWH
Anion Calibration Stock Solution
H2O

Concentrations in ug/mL ± 0.5%

Cl	1000
N (NO3)	100
SO4	2000
Br	40
P	500

This standard solution was prepared using high-purity starting materials, high-purity acid (if required) and 18-megaohm de-ionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed at 1000µg/mL by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against the National Institute of Standards and Technology's SRM 3100 series, NIST approved second source and/or gravimetrically.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for the stated shelf life from the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA, +31 20 638 05 97 in Europe or visit our web-site at www.cpiinternational.com.

Reagent Documentation

Reagent: Buffer Soln. Custom pH 8.5
Date Received: 06 May 08
Date Expired: 30 Apr 09
Manufacturer: CPI
Storage Condition: room temp

Reagent #: 201843
By: TLH
Matrix: aq
Amount: 6 x 500mL
Lot #: 18934

Component	Comment	Standard	Concentration
	CPI#CPI3652-08		

Comment:

Reagent: Anion Calibration Stds. Soln A+B
Date Received: 06 May 08
Date Expired: 01 Nov 09
Manufacturer: CPI
Storage Condition: room temp

Reagent #: 201844
By: TLH
Matrix: aq
Amount: 20 x 100mL
Lot #: 08EC04

Component	Comment	Standard	Concentration
	CPI#7400-050110rh03		

Comment:

Reagent: Cyanide 1000µg/mL in 0.5% KOH
Date Received: 06 May 08
Date Expired: 29 Apr 09
Manufacturer: High Purity Std.
Storage Condition: Refrigerator

Reagent #: 201845
By: TLH
Matrix: aq
Amount: 100mL
Lot #: 080952

Component	Comment	Standard	Concentration
	HP# IC-CN-M		

Comment:

Reagent Preparation Documentation

Page: 6

Reagent: Anions Autocal 2/LowRL
Date Received/Prepped: ~~5/15/08~~ 5/12/08 / 5/21/08 / 5/28/08 / 6/2/08 / 6/16/08
Date Expired: 6/17/08 / 6/20/08 / 6/23/08 / 6/26/08 / /
Manufacturer: CPI
Storage Condition: Room temp.

MW #: SXK080512-1
By: SXK
Matrix: aq
Amount: 100mL
Lot #:

Component	Comment	Standard	Concentration
CPI stock			Cl 0.125 mg/L
calibration			NO3 0.0125
solution A	12.5 ml } dilute to 100ml w/ DIH2O	R201877	(NO2)N 0.0125
			SO4 0.25
Solution B	12.5 ml	R201877	

Comment: prepare fresh for each calibration

Reagent: Anions Autocal 3
Date Received/Prepped: 5/12/08 5/28/08 6/17/08 6/23/8 / /
Date Expired: / / / / /
Manufacturer: CPI
Storage Condition: room temp

MW #: SXK080512-2
By: SXK
Matrix: aq
Amount: 100mL
Lot #:

Component	Comment	Standard	Concentration
CPI calibration			Cl 0.25
Stock Solution A	25 ml } dilute to 100ml w/ DIH2O	R201877	NO3 0.025
			(NO2)N 0.025
Stock Solution B	25 ml	R201877	SO4 0.50

mg/L

Comment: prepare fresh for each calibration

Reagent: Anions Autocal 4/MRL
Date Received/Prepped: 5/12/08 5/21/08 / 5/28/08 / 6/2/08 / 6/16/08 / 6/17/08
Date Expired: 6/23/8 6/26/08 / / / /
Manufacturer: CPI
Storage Condition: room temp

MW #: SXK080512-3
By: SXK
Matrix: aq
Amount: 100mL
Lot #:

Component	Comment	Standard	Concentration
CPI stock			Cl 0.50
solution A	50 ml } dilute to 100ml w/ DIH2O	R201877	SO4 1.0
			NO3 0.05
solution B	50 ml	R201877	(NO3)N 0.05

mg/L

Comment: prepare fresh for each calibration

Reagent Preparation Documentation

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Reagent: Anions Autocal 5
Date Received/Prepped: 5/12/08 / 5/28/08 / 6/17/08 / 6/23/8 / / /
Date Expired: / / / / /
Manufacturer: CPI
Storage Condition: ~~prepare fr each calibration~~ room temp

MW #: ~~SXF0512-4~~
By: SXK SXF080512-4
Matrix: aq
Amount: 100mL
Lot #:

Component	Comment	Standard	Concentration mg/L
CPI calibration stock			Cl 1.0
Solution A	100 µl } dilute to 100ml w/ DIH2O	R201874	NO3 0.1
			N(NO2) 0.1
Solution B	100 µl }	R201874	SO4 2.0

Comment: prepare fresh for each calibration

Reagent: Anions Autocal 6
Date Received/Prepped: 5/12/08 / 5/28/08 / 6/17/08 / 6/23/8 / / /
Date Expired: / / / / /
Manufacturer: CPI
Storage Condition: ~~prepare fresh for each calibration~~ room temp

MW #: SXF080512-5
By: SXK
Matrix: aq
Amount: 100mL
Lot #:

Component	Comment	Standard	Concentration mg/L
CPI calibration stock			Cl 2.0
Solution A	200 µl } dilute to 100ml w/ DIH2O	R201874	NO3 0.2
			N(NO2) 0.2
Solution B	200 µl }	R201874	SO4 4.0

Comment: prepare fresh for each calibration

Reagent: Anions Autocal 7
Date Received/Prepped: 5/12/08 / 5/28/08 / 6/17/08 / 6/29/8 / / /
Date Expired: / / / / /
Manufacturer: CPI
Storage Condition: room temp

MW #: SXF080512-6
By: SXK
Matrix: aq
Amount: 100mL
Lot #:

Component	Comment	Standard	Concentration mg/L
CPI calibration			Cl 5
stock soln A	500 µl } dilute to 100ml w/ DIH2O	R201874	NO3 0.5
			N(NO2) 0.5
Solution B	500 µl }	R201874	SO4 10.0

Comment: prepare fresh for each calibration

Reagent Preparation Documentation

Page: 8

Reagent: Anions Autocal 8
Date Received/Prepped: 5/12/08 / 5/28/08 / 6/17/08 / 6/23/8 / /
Date Expired: / / / / /
Manufacturer: CPI
Storage Condition: room temp

MW #: SYK080512-7
By: SYK
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration (mg/L)
CPI calibration stock			Cl 10.0
Solution A	1.0 mL } dilute to 100mL DIH2O	R201844	NO3 1.0
			N(NO3) 1.0
Solution B	1.0 mL }	R201844	SO4 20.0

Comment: prepare fresh for each calibration

Reagent: Anions Autocal 9
Date Received/Prepped: 5/12/08 / 5/28/08 / 6/17/08 / 6/23/8 / /
Date Expired: / / / / /
Manufacturer: CPI
Storage Condition: room temp

MW #: SYK080512-8
By: SYK
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration (mg/L)
CPI calibration stock			Cl 25.0
Solution A	2.5mL mL } dilute to 100mL	R201844	NO3 25.0
			N(NO3) 25.0
Solution B	2.5mL mL } DIH2O	R201844	SO4 50.0

Comment: prepare fresh for each calibration

Reagent: Anions Autocal 10/hNV
Date Received/Prepped: 5/12/08 / 5/20/08 / 5/28/08 / 6/3/08 / cancelled 6/17/08
Date Expired: 6/20/08 / 6/23/8 / 12/27/08 / / /
Manufacturer: CPI
Storage Condition: room temp

MW #: SYK080512-9
By: SYK
Matrix: aq
Amount: 100mL
Lot #:

Component	Comment	Standard	Concentration (mg/L)
CPI Calibration stock			Cl 50.0
Solution A	5 mL } dilute to	R201844	NO3 5.0
	100 mL DIH2O		N(NO2) 5.0
Solution B	5.0mL }	R201844	SO4 100.0

Comment: prepare fresh for each calibration

Reagent Preparation Documentation

Page: 1

Reagent: Anions Autocal II
Date Received/Prepped: 5/12/08 / 5/28/08 / 6/17/08 / 6/23/8 / / /
Date Expired: / / / / / /
Manufacturer: CPI
Storage Condition: prepare fresh for each calibration

MW #: SXK080512-10
By: SXK
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration (mg/L)
CPI calibration stock			Cl 100.0
solution A	10.0ml } dilute to 100ml DiH2O	R208144	NO3 10.0
			N(NO2) 10.0
Solution B	10.0ml }	R208144	SO4 200.0

Comment: room temp

Reagent: Anions MCV
Date Received/Prepped: 5/17/08 / 5/28/08 / 5/28/08 / 6/4/08 / 6/12/08 / 6/16/08
Date Expired: 6/20/08 / 6/27/08 / / / / /
Manufacturer: CPI
Storage Condition: Room temperature

MW #: SXK080517-1
By: SXK
Matrix: aq
Amount: 100mL
Lot #:

Component	Comment	Standard	Concentration (mg/L)
CPI Calibration			Cl 20.0
stock soln A	2ml } dilute to 100ml DiH2O	R208144	NO3 2.0
			(NO2)N 2.0
stock soln B	2ml }	R208144	SO4 40.0

Comment: prepare fresh daily

Reagent: ANIONS HCV2
Date Received/Prepped: 5/20/08 / 5/28/08 / 6/4/08 / 6/11/08 / 6/20/08 / 6/27/8
Date Expired: / / / / / /
Manufacturer: CPI
Storage Condition: Room temperature

MW #: SXK080520-1
By: SXK
Matrix: aq
Amount: 100 mL
Lot #:

Component	Comment	Standard	Concentration (mg/L)
CPI CALIBRATION Stock			Cl 80.0
solution A	8.0ml } dilute to 100ml w/DiH2O	208144	NO3 8.0
			(NO2)N 8.0
solution B	8.0ml }	208144	SO4 160.0

Comment: prepare fresh daily

INORGANIC VENTURES
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CERTIFICATE OF ANALYSIS

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

2.0 **DESCRIPTION OF CRM** Ion Chromatography Custom Solution

Catalog No.: MWH-ANION-300.0

Lot Number: **Z-ION21008**

Matrix: H2O

R201520 bottle A

5,000.00 µg/mL each: Sulfate,

2,500.00 µg/mL each: Chloride,

1,000.00 µg/mL each: o-Phosphate as P,

250.00 µg/mL each: Nitrate_ as_ N,

50.00 µg/mL each: Bromide

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ION	CERTIFIED VALUE	ION	CERTIFIED VALUE	ION	CERTIFIED VALUE
Bromide	49.86 ± 0.12 µg/mL	Chloride	2,496 ± 6 µg/mL	Nitrate_ as_ N	250.7 ± 1.0 µg/mL
o-Phosphate as P	1,004 ± 2 µg/mL	Sulfate	5,002 ± 11 µg/mL		

Certified Density: 1.012 g/mL (measured at 22° C)

The Certified Value is based upon the most precise method used to analyze this CRM. The following equations are used in the calculation of the certified value and the uncertainty:

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

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

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

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

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

Reagent Documentation

gent: Nitrate Buffer
e Received: 15 14th Nov 06
e Expired: 26 Sept 07
ufacturer: CPI
rage Condition:

Reagent #: 201519
By: TLH
Matrix: aq
Amount: 4x 1Kg (500ml)
Lot #: 14566

Component	Comment	Standard	Concentration
	CPI #1400-LAM-6-3F		

nment:

gent: MWH Anion Mix Std LCS Stock
e Received: 17 Nov 06
e Expired: 1 Dec 07
ufacturer: Inorganic Ventures
rage Condition: refrigerate 4±2°C

Reagent #: 201520
By: LMR
Matrix: aq
Amount: 8x125ml A + 8x125ml B
Lot #: Z-ION21008 (A) 21009(B)

Component	Comment	Standard	Concentration
	MWH-Anion-300.0 - bottle A		
	ICNNO2100 - bottle B		

nment:

gent: CCD Low Range Vials
e Received: 21 Nov 06 / 25 Jan 07 / 02 May 07
e Expired: Nov 2011 / Jan 2012 / May 2012
ufacturer: WTW
rage Condition: room temperature

Reagent #: 201521
By: TLH
Matrix: aq
Amount: 150 vials / 2x DNAs
Lot #: 10246

Component	Comment	Standard	Concentration
	WTW #253112		

nment:

Reagent Preparation Documentation

Reagent: Anions LCS/LCSD
Date Received/Prepped: 4/17/08 4/22/08 / 5/6/08 / 5/21/08 / 5/28/08 /
Date Expired: 6/3/08 / 6/9/08 / 6/20/08 6/26/08 7/1/08 7/7/08
Manufacturer: ~~CP~~ Inorganic Ventures
Storage Condition: room temperature

MW #: SXK~~080417~~080417-2
By: SXK
Matrix: aq
Amount: 100mL
Lot #:

Component	Comment	Standard	Concentration
Inorganic Ventures Stock Solution A	1.0 mL } dilute to 100mL w/ DiH2O	P-201520-A	Cl 25.0 mg/L NO3(NO3) 2.50 SO4 50.0
Stock Solution B	1.0mL	P201520-B	NO2(NO2) 1.00

Comment: prepare fresh daily

Reagent: Anions 20 ppm check
Date Received/Prepped: 4/17/08 4/28/08 / 5/28/08 / 6/4/08 / 6/16/08 / 7/1/08
Date Expired: 7/8/08 / / / / /
Manufacturer: ~~CP~~ Inorganic Ventures
Storage Condition: room temperature

MW #: SXK080417-3
By: SXK
Matrix: aq
Amount: 100mL
Lot #:

Component	Comment	Standard	Concentration
~~Inorganic Ventures~~ Anion Stock Solution A	8.0mL dilute to 100mL w/ DiH2O	207560	
Inorganic Ventures			

Comment: prepare fresh daily.

Reagent: Anion Eluent Stock SOLN
Date Received/Prepped: 4/18/08 ~~4/22/08 4/22/08~~ / /
Date Expired: 5/24/08 / / / / /
Manufacturer:
Storage Condition: room temperature

MW #: SXK080418-1
By: SK
Matrix: aq
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
Na2CO3	19.09g } dissolve in 1L DiH2O	R201302	
NaHCO3	14.28g	R201472	

Comment: