Sequence: 2012_1016
Injection #14: 311995-009/1

Peak Results

Peak No.	Peak Name	Ret.Time min	Amount n.a.	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1		6.707	n.a.	100.00	0.6385	2.33	BMB	0.264	1.19	n.a.	3588
Maximum			0.0000	100.00	0.6385	2.33		0.264	1.19	0.00	3588
Minimum			0.0000	100.00	0.6385	2.33		0.264	1.19	0.00	3588
Sum			0.0000	100.00	0.6385	2.33					

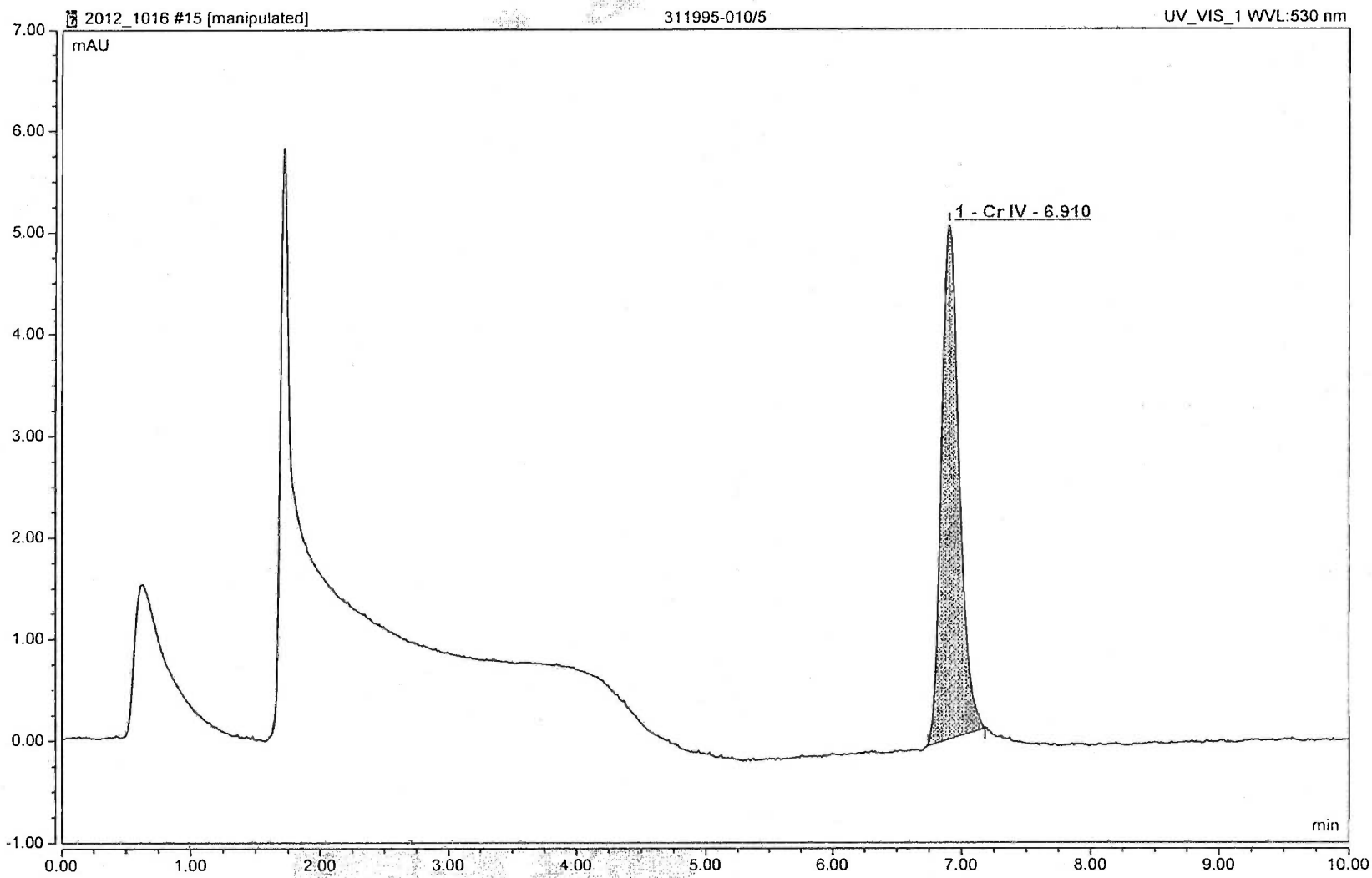
Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
17/10/12 14:21

ALAB : 00083
LMC-PET-00000459
CONFIDENTIAL

Sequence: 2012_1016
Injection #15: 311995-010/5

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
17/10/12 14:07

ALAB : 00084
LMC-PET-00000460
CONFIDENTIAL

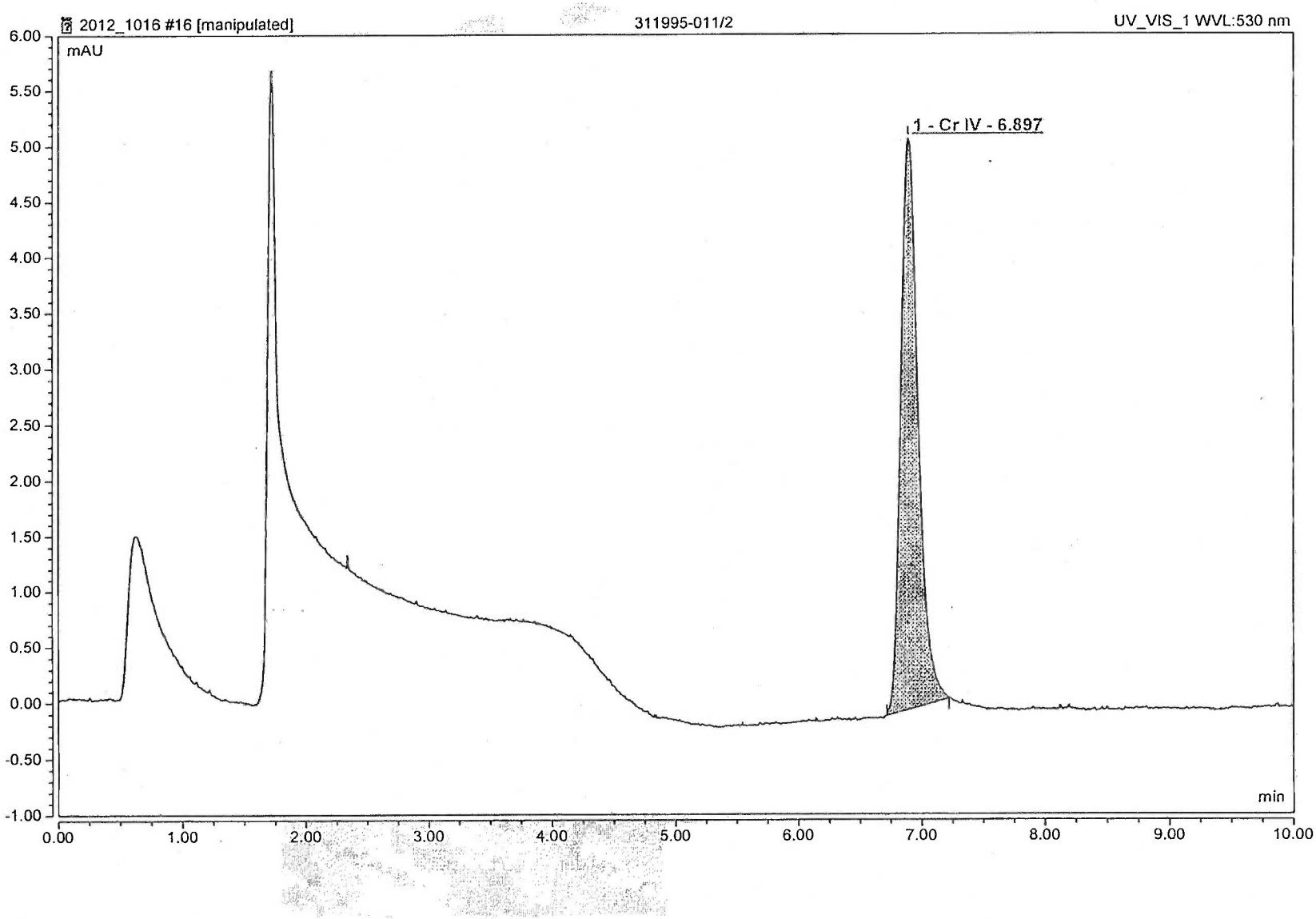
Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.910	2.4191	100.00	0.7999	5.06	BMB	0.145	1.24	n.a.	12583
Maximum			2.4191	100.00	0.7999	5.06		0.145	1.24	0.00	12583
Minimum			2.4191	100.00	0.7999	5.06		0.145	1.24	0.00	12583
Sum			2.4191	100.00	0.7999	5.06					

X10

ALAB : 08885
LMC-PET-00000461
CONFIDENTIAL

Sequence: 2012_1016
Injection #16: 311995-011/2

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
17/10/12 14:08

ALAB : 99585
LMC-PET-00000462
CONFIDENTIAL

Sequence: 2012_1016
Injection #16: 311995-011/2

Peak Results

Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.897	2.5143	100.00	0.8314	5.13	BMB	0.147	1.30	n.a.	12253
Maximum			2.5143	100.00	0.8314	5.13		0.147	1.30	0.00	12253
Minimum			2.5143	100.00	0.8314	5.13		0.147	1.30	0.00	12253
Sum			2.5143	100.00	0.8314	5.13					

X10

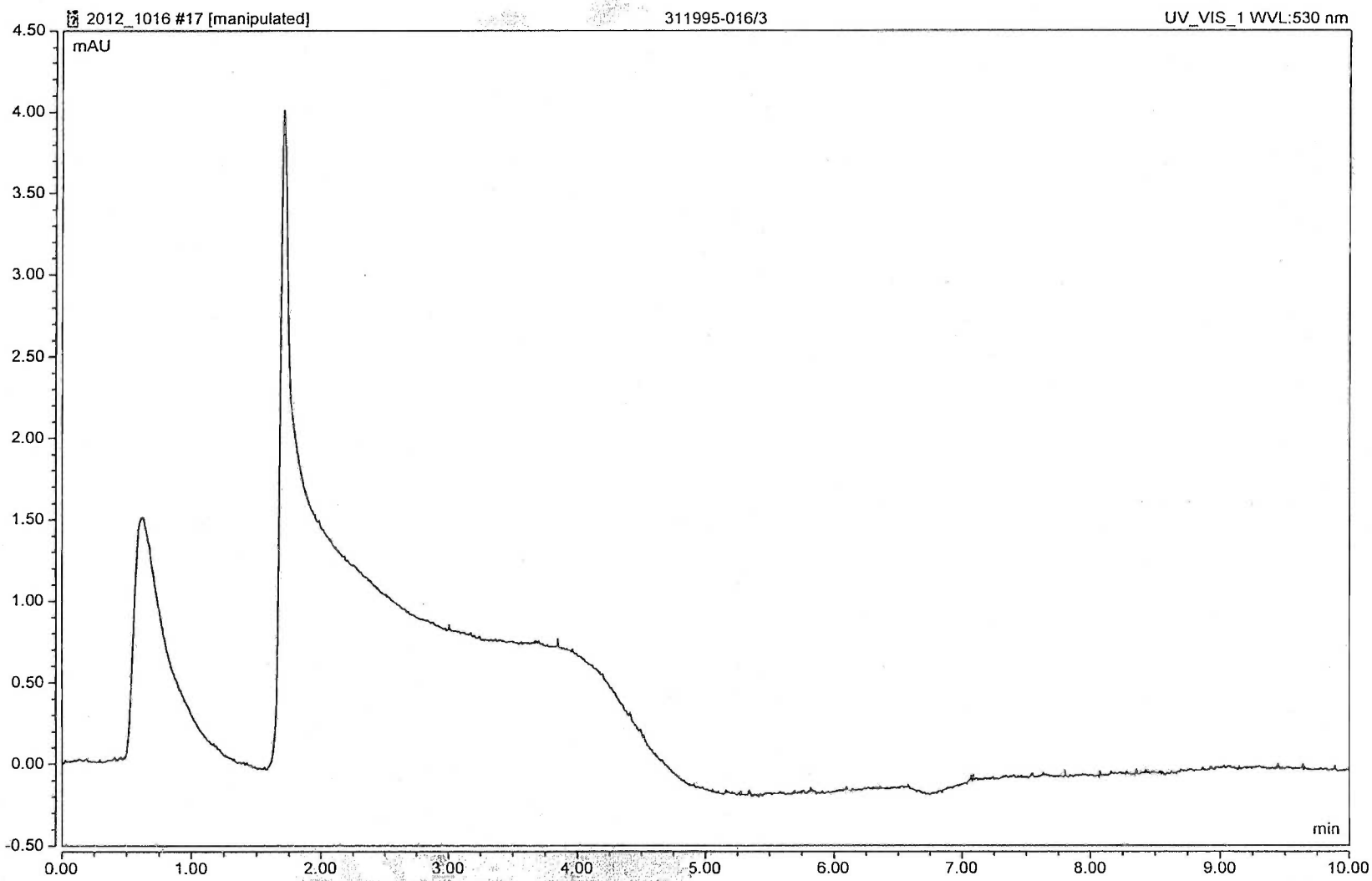
Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
17/10/12 14:21

ALAB: 00087
LMC-PET-00000463
CONFIDENTIAL

Sequence: 2012_1016
Injection #17: 311995-016/3

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
17/10/12 14:08

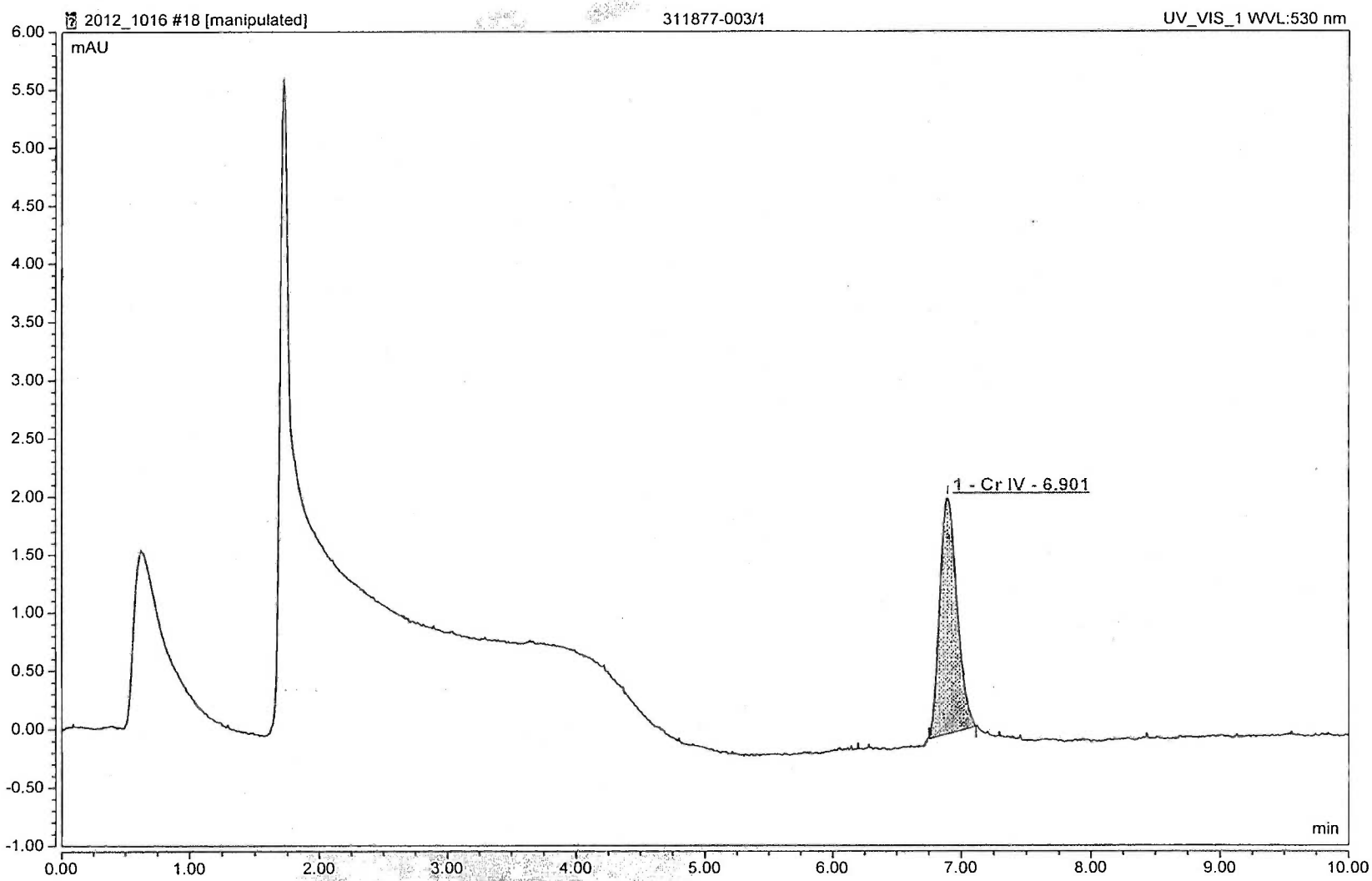
ALAB : 000088
LMC-PET-00000464
CONFIDENTIAL

Peak No.	Peak Name	Ret.Time min	Amount n.a.	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
Maximum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Minimum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Sum			0.0000	0.00	0.0000	0.00					

ALAB : 00089
LMC-PET-00000465
CONFIDENTIAL

Sequence: 2012_1016
Injection #18: 311877-003/1

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
17/10/12 14:08

LMC-PET-00000466
CONFIDENTIAL

Sequence: 2012_1016
Injection #18: 311877-003/1

Peak Results

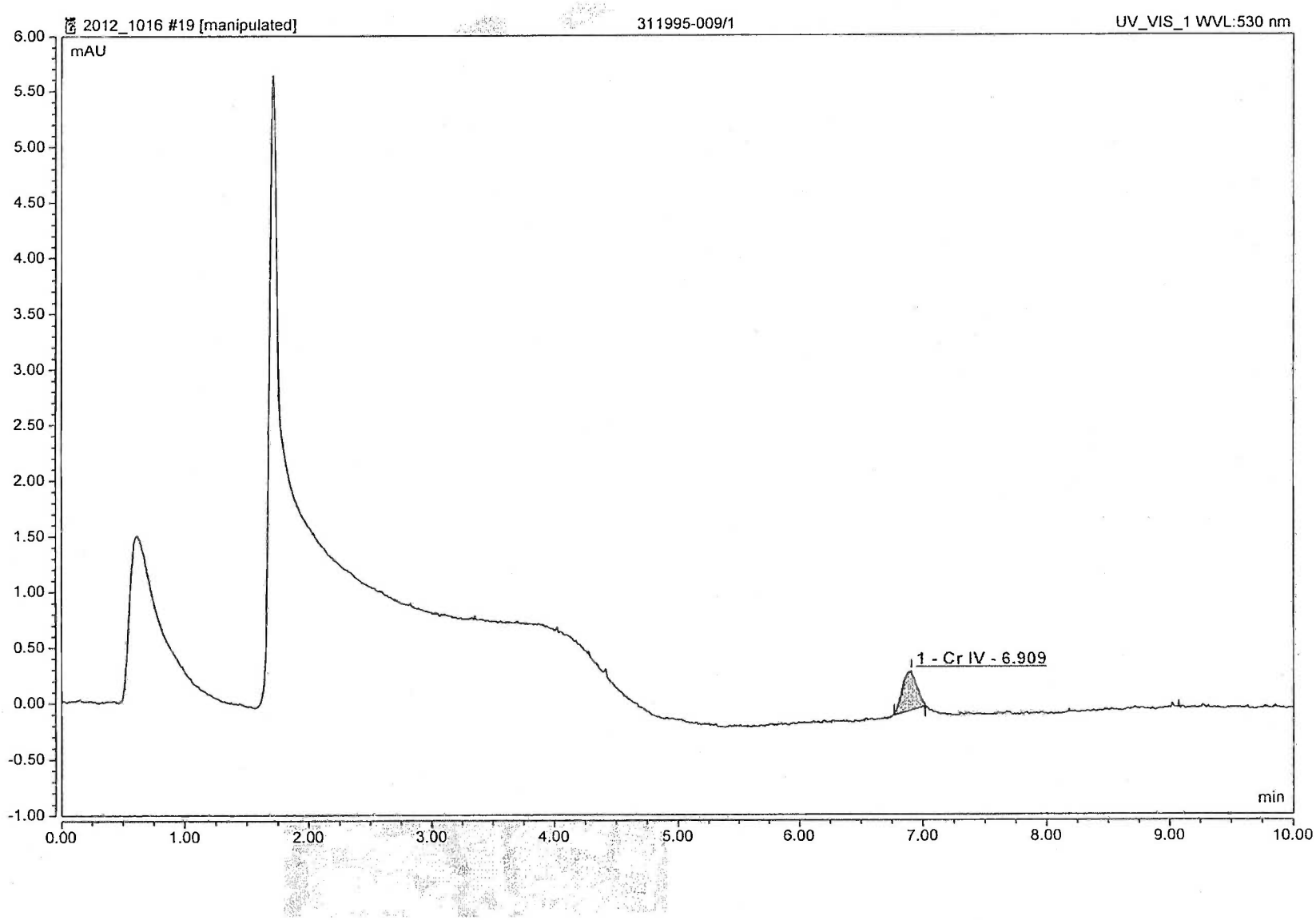
Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.901	0.9517	100.00	0.3147	2.04	BMB	0.145	1.17	n.a.	12559
Maximum			0.9517	100.00	0.3147	2.04		0.145	1.17	0.00	12559
Minimum			0.9517	100.00	0.3147	2.04		0.145	1.17	0.00	12559
Sum			0.9517	100.00	0.3147	2.04					

X10

ALAB : 05089
LMC-PET-00000467
CONFIDENTIAL

Sequence: 2012_1016
Injection #19: 311995-009/1

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
17/10/12 14:08

LMC-PET-00000468
CONFIDENTIAL

Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.909	0.1418	100.00	0.0469	0.36	BMB	0.131	0.90	n.a.	15465
Maximum			0.1418	100.00	0.0469	0.36		0.131	0.90	0.00	15465
Minimum			0.1418	100.00	0.0469	0.36		0.131	0.90	0.00	15465
Sum			0.1418	100.00	0.0469	0.36					

X10

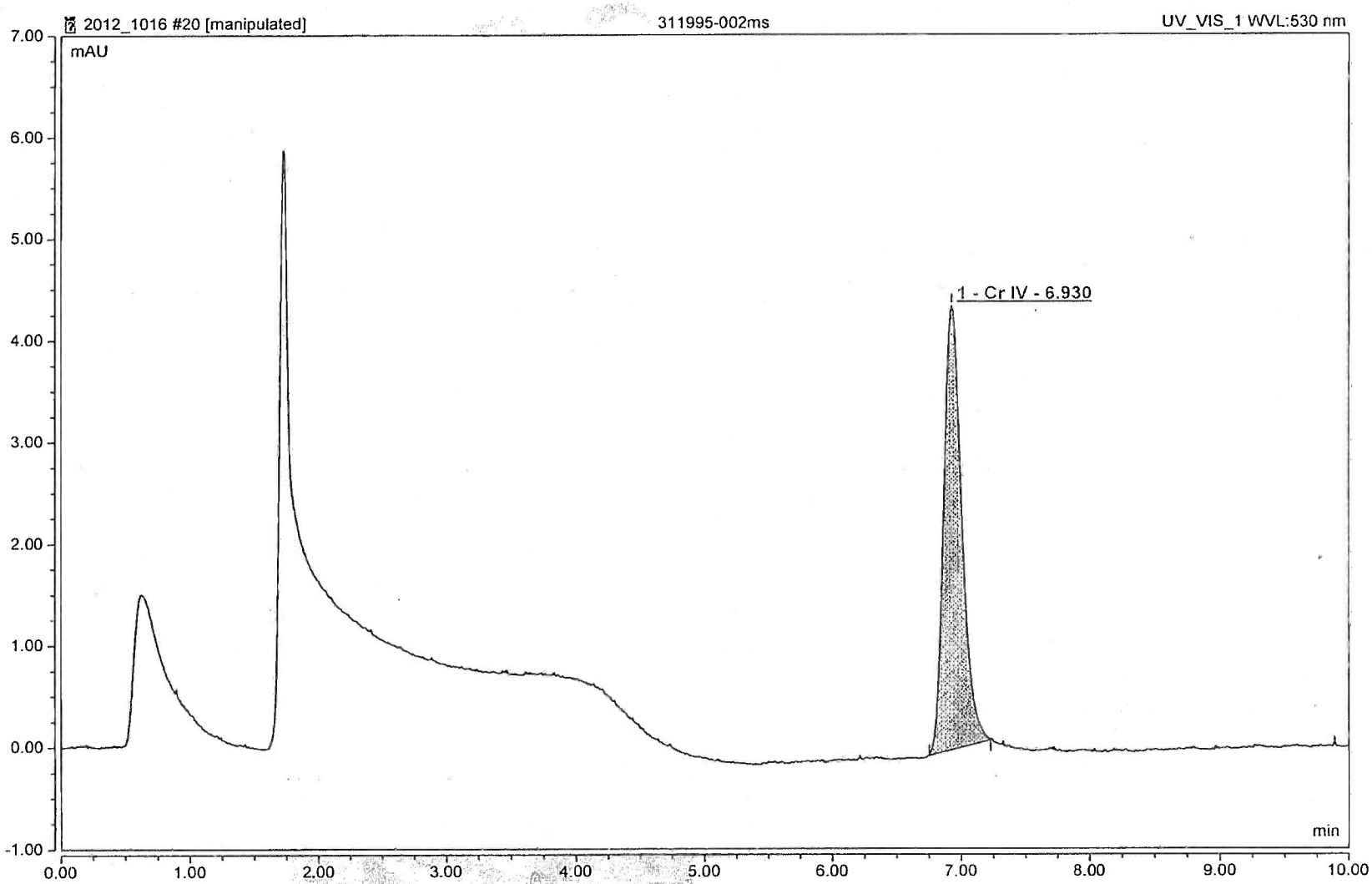
ALAB : 6666

LMC-PET-00000469

CONFIDENTIAL

Sequence: 2012_1016
Injection #20: 311995-002ms

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
17/10/12 14:09

AL-AB : 66551
LMC-PET-00000470
CONFIDENTIAL

Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.930	2.1337	100.00	0.7056	4.36	BMB	0.147	1.26	n.a.	12254
Maximum			2.1337	100.00	0.7056	4.36		0.147	1.26	0.00	12254
Minimum			2.1337	100.00	0.7056	4.36		0.147	1.26	0.00	12254
Sum			2.1337	100.00	0.7056	4.36					

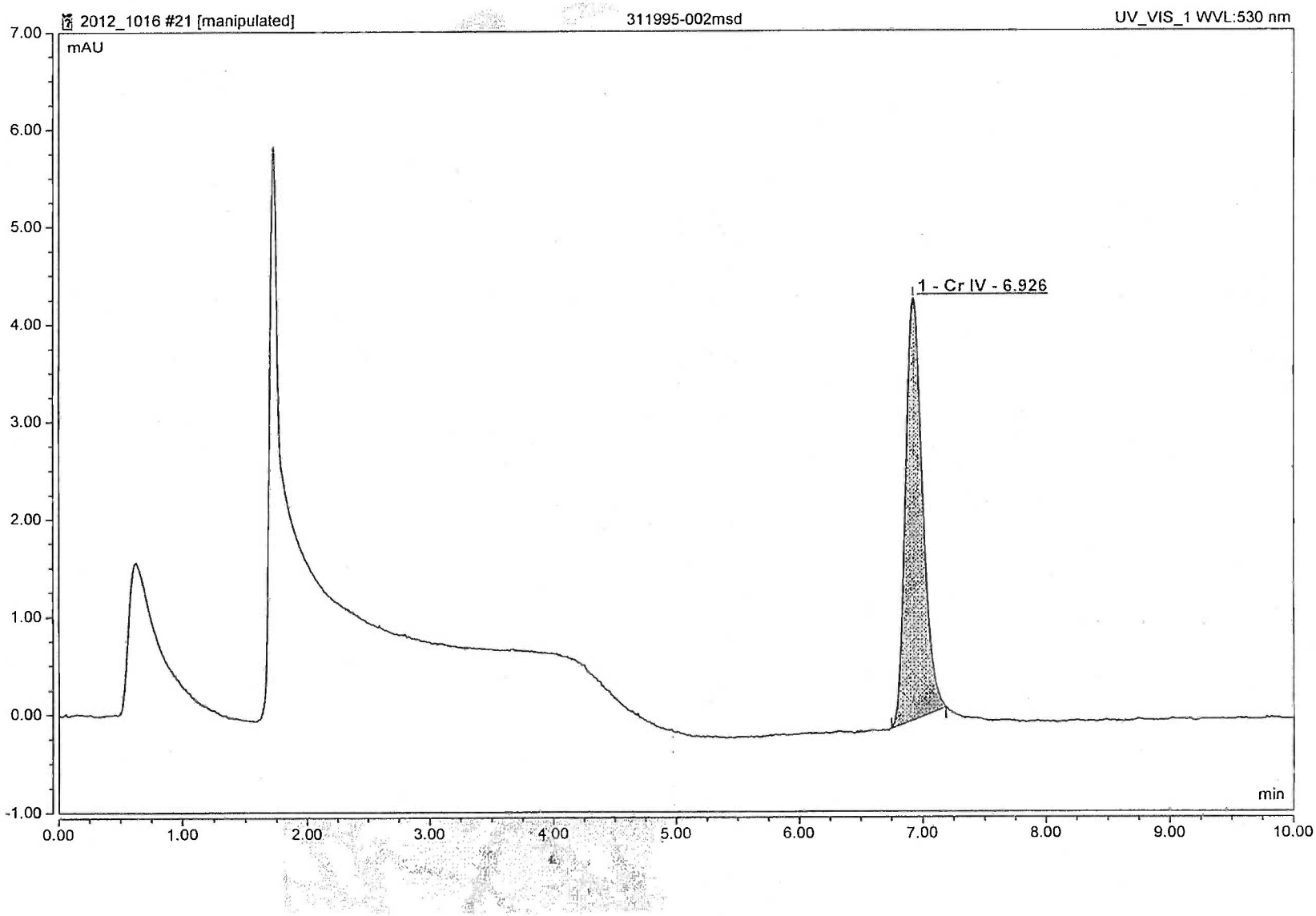
ALAB : 88952

LMC-PET-00000471

CONFIDENTIAL

Sequence: 2012_1016
Injection #21: 311995-002msd

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
17/10/12 14:09

LMC-PET-00000472
CONFIDENTIAL

Sequence: 2012_1016
Injection #21: 311995-002msd

Peak Results

Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.926	2.0770	100.00	0.6868	4.32	BMB	0.146	1.26	n.a.	12459
Maximum			2.0770	100.00	0.6868	4.32		0.146	1.26	0.00	12459
Minimum			2.0770	100.00	0.6868	4.32		0.146	1.26	0.00	12459
Sum			2.0770	100.00	0.6868	4.32					

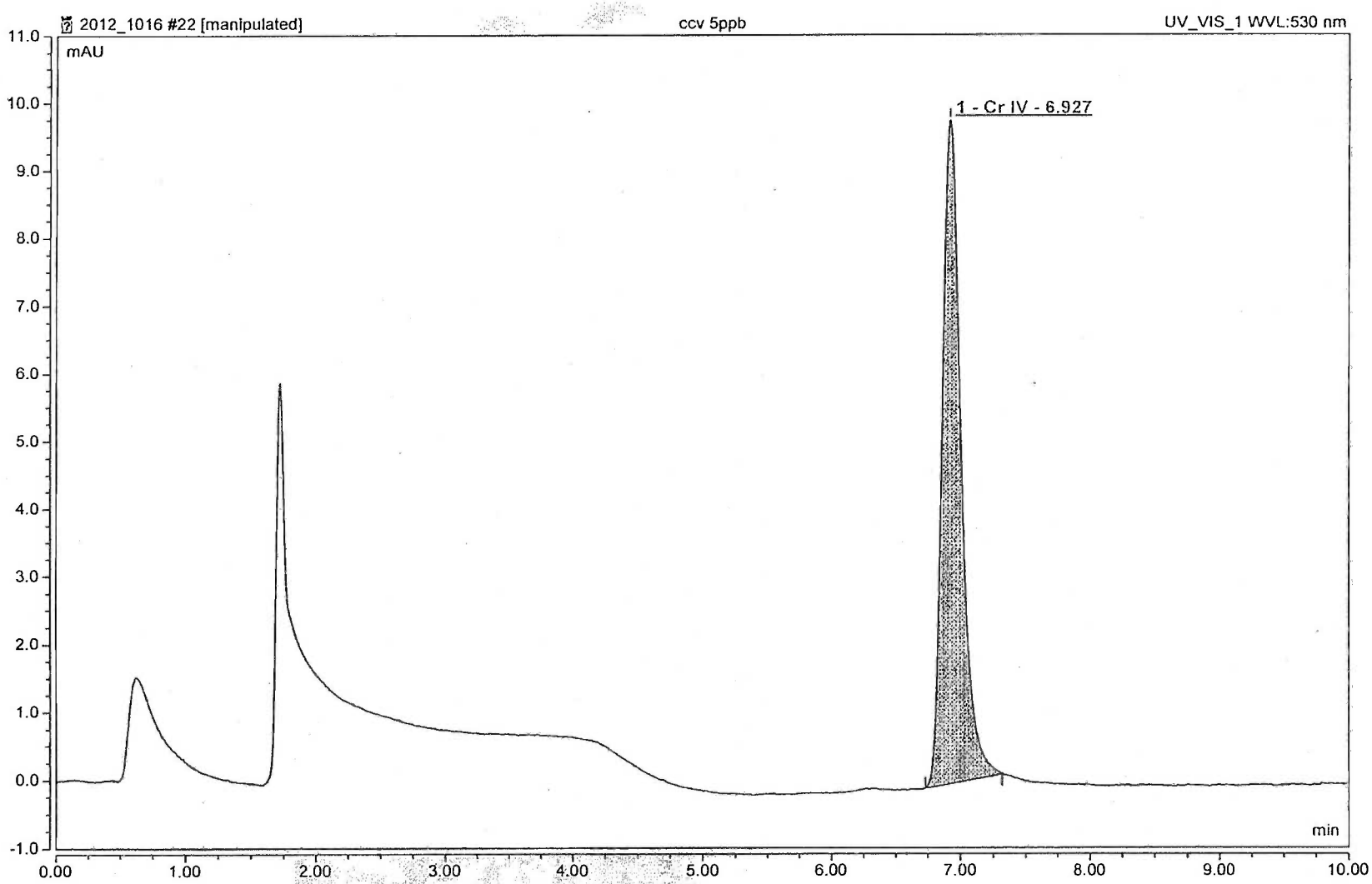
Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
17/10/12 14:22

ALAB : 99999
LMC-PET-00000473
CONFIDENTIAL

Sequence: 2012_1016
Injection #22: ccv 5ppb

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
17/10/12 14:10

LMC-PET-00000474
CONFIDENTIAL

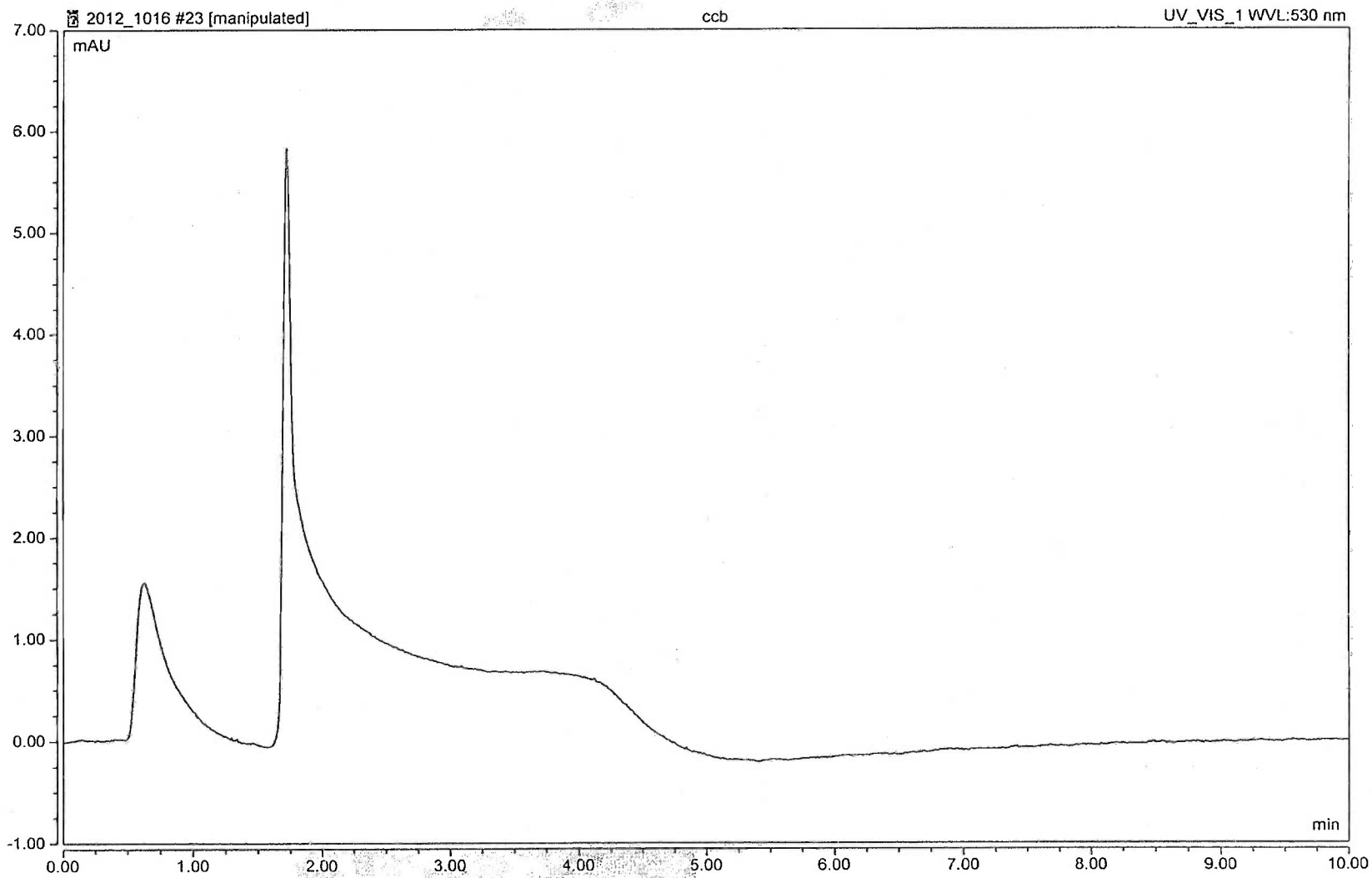
Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.927	4.8987	100.00	1.6199	9.81	BMB	0.148	1.32	n.a.	12109
Maximum			4.8987	100.00	1.6199	9.81		0.148	1.32	0.00	12109
Minimum			4.8987	100.00	1.6199	9.81		0.148	1.32	0.00	12109
Sum			4.8987	100.00	1.6199	9.81					

LMC-PET-00000475

CONFIDENTIAL

Sequence: 2012_1016
Injection #23: ccb

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
17/10/12 14:10

LMC-PET-00000476
CONFIDENTIAL

Sequence: 2012_1016
Injection #23: ccb

Peak No.	Peak Name	Ret.Time min	Amount n.a.	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
Maximum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Minimum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Sum			0.0000	0.00	0.0000	0.00					

ALAB : 00001
LMC-PET-00000477
CONFIDENTIAL

EPA 300.0

CONFIDENTIAL

ANIONS by ION CHROMATOGRAPHY

DATA PACKAGE

ALAB : 00096

Sequence: 12-10-12
Operator: wei
Printed: 10/13/2012 7:44:10 AM

Title: ClO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Assciated_lab
#Samples: 32
Created: 10/12/2012 9:03:29 AM by wei
(Modified, not saved)

No.	Name	Type	Program	Method	Status
1	ccb	Unknown	anion_program	PERCHLORATE METHOD	Finished
2	std1	Standard	anion_program	PERCHLORATE METHOD	Finished
3	std2	Standard	anion_program	PERCHLORATE METHOD	Finished
4	std3	Standard	anion_program	PERCHLORATE METHOD	Finished
5	std4	Standard	anion_program	PERCHLORATE METHOD	Finished
6	std5	Standard	anion_program	PERCHLORATE METHOD	Finished
7	std6	Unknown	anion 16	PERCHLORATE METHOD	Finished
8	ccb1	Unknown	anion_program	PERCHLORATE METHOD	Finished
9	ccv1	Unknown	anion_program	PERCHLORATE METHOD	Finished
10	311991-003-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
11	311991-004-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
12	311991-006-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
13	311991-011-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
14	311991-013-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
15	311991-014-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
16	311991-015-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
17	311995-010-6	Unknown	anion_program	PERCHLORATE METHOD	Finished
18	311995-010-6	Unknown	anion_program	PERCHLORATE METHOD	Finished
19	311991-003-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
20	311995-010-6 ms1	Unknown	anion_program	PERCHLORATE METHOD	Finished
21	ccv2=lcs	Unknown	anion_program	PERCHLORATE METHOD	Finished
22	ccb2	Unknown	anion_program	PERCHLORATE METHOD	Finished
23	311977-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
24	311978-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
25	311979-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
26	312025-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
27	311991-015-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
28	311991-015-1 ms2	Unknown	anion_program	PERCHLORATE METHOD	Finished
29	ccv3	Unknown	anion_program	PERCHLORATE METHOD	Finished
30	ccb3	Unknown	anion_program	PERCHLORATE METHOD	Finished
31	end	Unknown	stop program	PERCHLORATE METHOD	Finished
32	end	Unknown	stop program	PERCHLORATE METHOD	Finished

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CONFIDENTIAL

Sequence: 12-10-12
Operator: wei
Printed: 10/13/2012 7:44:10 AM

Title: ClO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Assciated_lab
#Samples: 32
Created: 10/12/2012 9:03:29 AM by wei (Modified, not saved)

No.	Name	Inj. Date/Time	Dil. Factor	Comment
1	ccb	8/6/2012 9:20:37 AM	1.0000	no guard separate014785 lot007-17-139
2	std1	8/6/2012 9:47:19 AM	1.0000	cs080612-1
3	std2	8/6/2012 10:09:13 AM	1.0000	cs080612-2
4	std3	8/6/2012 10:30:13 AM	1.0000	cs080612-3
5	std4	8/6/2012 10:51:45 AM	1.0000	cs080612-4
6	std5	8/6/2012 11:12:58 AM	1.0000	cs080612-5
7	std6	8/6/2012 11:34:43 AM	1.0000	cs080612-6
8	ccb1	10/12/2012 9:34:28 AM	1.0000	
9	ccv1	10/12/2012 10:00:15 AM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
10	311991-003-1	10/12/2012 10:23:23 AM	1.0000	cdm cl/so4/no3
11	311991-004-1	10/12/2012 10:44:01 AM	1.0000	cdm cl/so4/no3
12	311991-006-1	10/12/2012 11:06:02 AM	1.0000	cdm cl/so4/no3
13	311991-011-1	10/12/2012 11:27:55 AM	1.0000	cdm cl/so4/no3
14	311991-013-1	10/12/2012 11:48:34 AM	1.0000	cdm cl/so4/no3
15	311991-014-1	10/12/2012 12:10:41 PM	1.0000	cdm cl/so4/no3 dup
16	311991-015-1	10/12/2012 12:31:53 PM	1.0000	cdm cl/so4/no3 dup
17	311995-010-6	10/12/2012 12:58:24 PM	1.0000	arcadis cl/so4/no3/no2/f
18	311995-010-6	10/12/2012 1:21:14 PM	2.0000	rep arcadis
19	311991-003-1	10/12/2012 1:42:56 PM	5.0000	cdm rep
20	311995-010-6 ms1	10/12/2012 2:02:59 PM	10.0000	ms1
21	ccv2=lcs	10/12/2012 2:24:01 PM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
22	ccb2	10/12/2012 2:44:49 PM	1.0000	
23	311977-001-1	10/12/2012 3:06:55 PM	25.0000	cl
24	311978-001-1	10/12/2012 3:27:23 PM	25.0000	cl
25	311979-001-1	10/12/2012 3:42:55 PM	25.0000	cl
26	312025-001-1	10/12/2012 3:54:21 PM	1.0000	tin
27	311991-015-1	10/12/2012 4:14:52 PM	5.0000	cdm rep for so4
28	311991-015-1 ms2	10/12/2012 4:35:26 PM	10.0000	ms2
29	ccv3	10/12/2012 4:58:51 PM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
30	ccb3	10/12/2012 5:25:21 PM	1.0000	
31	end	10/13/2012 4:54:46 AM	1.0000	
32	end	10/13/2012 4:54:47 AM	1.0000	

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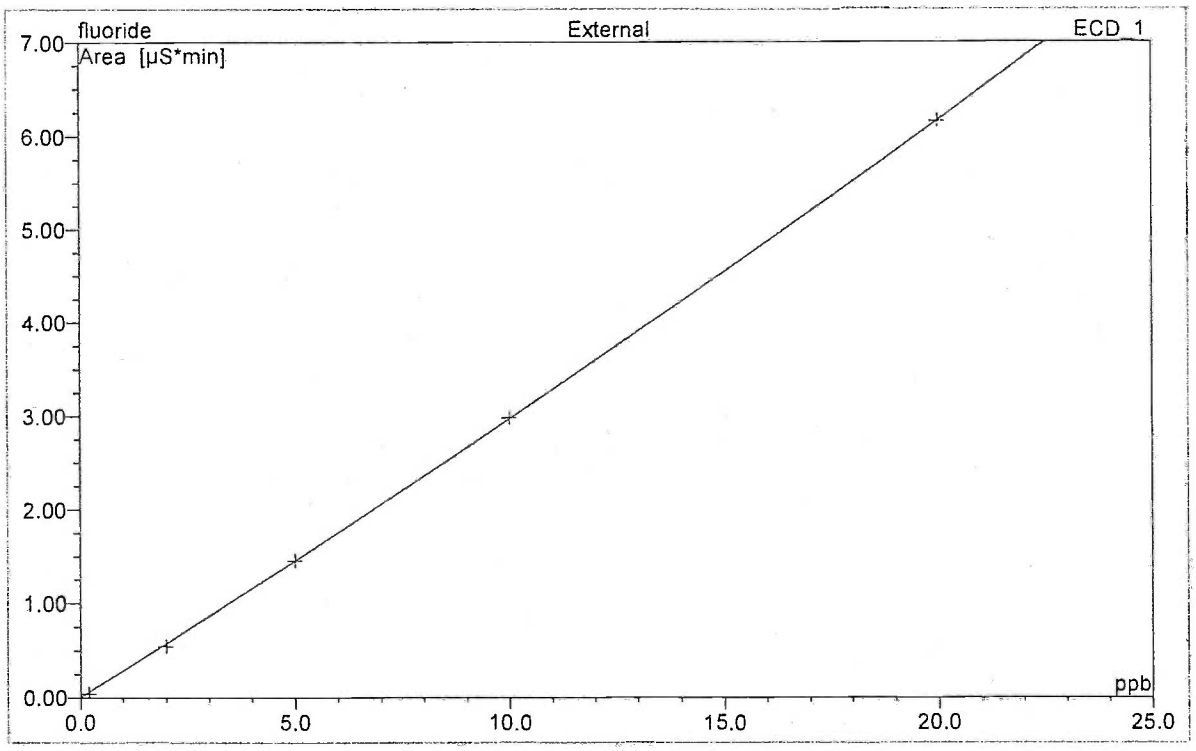
5 std4

cs080612-4

Sample Name:	**std4**	*Injection Volume:*	**20.0**
Vial Number:	**509**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/6/2012 10:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**18.57**	*Sample Amount:*	**1.0000**

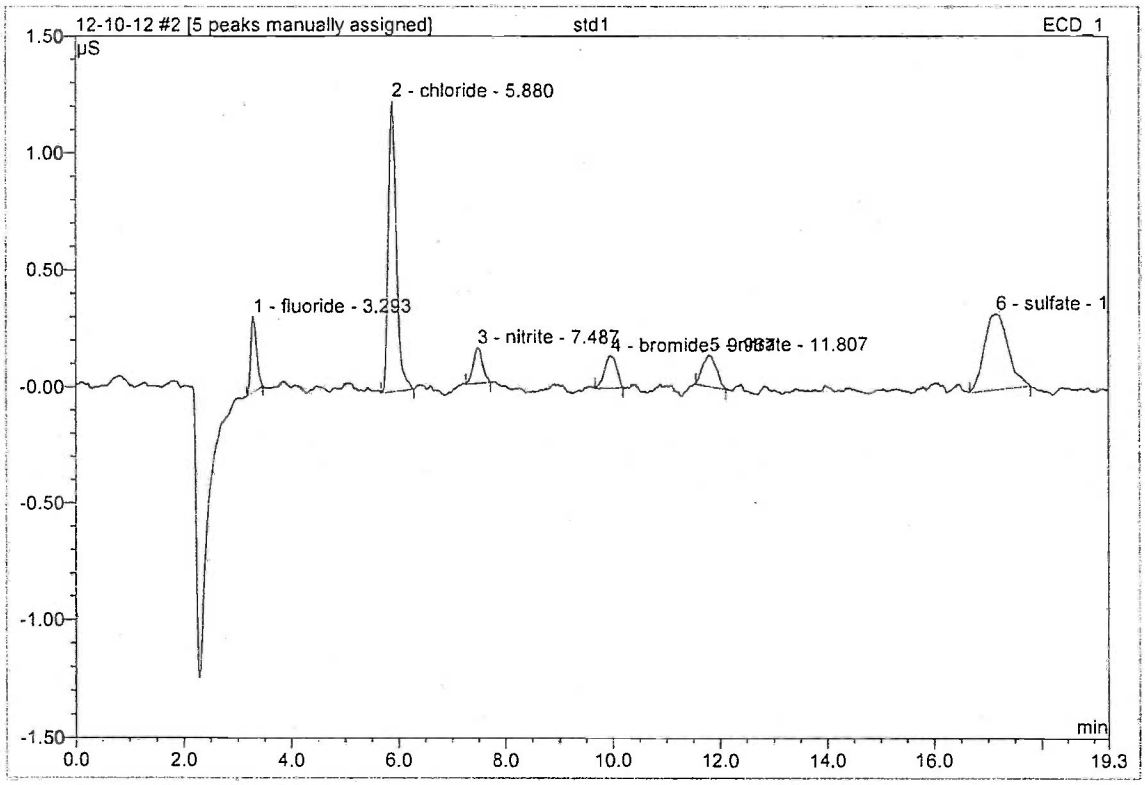


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	3.28	fluoride	Quad	5	99.9860	0.0000	0.2849	0.0012
2	5.12	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	5.88	chloride	Quad	5	99.8914	0.0000	0.2449	0.0006
4	7.45	nitrite	Quad	5	99.9658	0.0000	0.1116	0.0004
5	9.90	bromide	Quad	5	99.9217	0.0000	0.0871	0.0003
6	11.68	nitrate	Quad	5	99.9187	0.0000	0.1107	0.0005
7	17.06	sulfate	Quad	5	99.8914	0.0000	0.1702	0.0004
Average:					99.9292	0.0000	0.1682	0.0005

2 std1

cs080612-1

Sample Name:	**std1**	*Injection Volume:*	**20.0**
Vial Number:	**531**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/6/2012 9:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.27**	*Sample Amount:*	**1.0000**

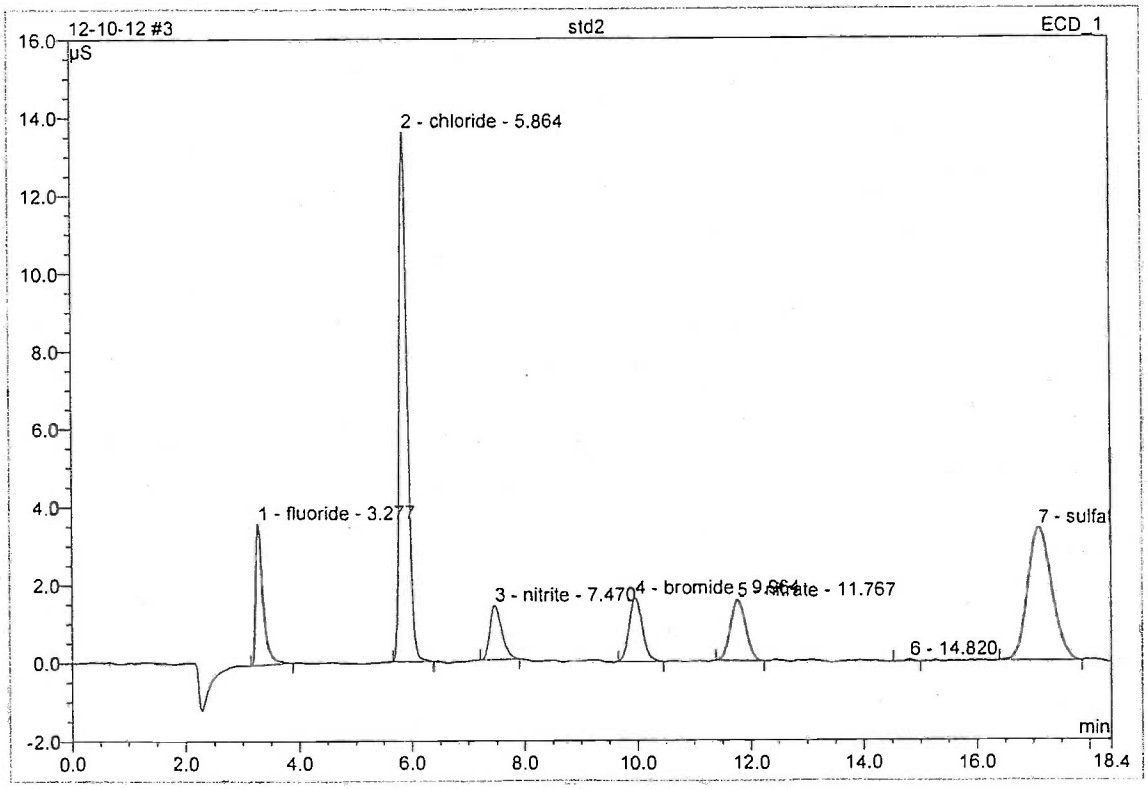


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.29	fluoride	0.324	0.041	7.70	0.144	BMB
2	5.88	chloride	1.244	0.217	40.61	0.883	BMB^
3	7.49	nitrite	0.153	0.031	5.73	0.274	BMB^
4	9.97	bromide	0.139	0.036	6.83	0.418	BMB^
5	11.81	nitrate	0.135	0.040	7.59	0.365	BMB^
6	17.16	sulfate	0.327	0.168	31.54	0.987	BMB^
Total:			2.322	0.534	100.00	3.071	

3 std2

cs080612-2

Sample Name:	**std2**	*Injection Volume:*	**20.0**
Vial Number:	**509**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/6/2012 10:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**18.38**	*Sample Amount:*	**1.0000**

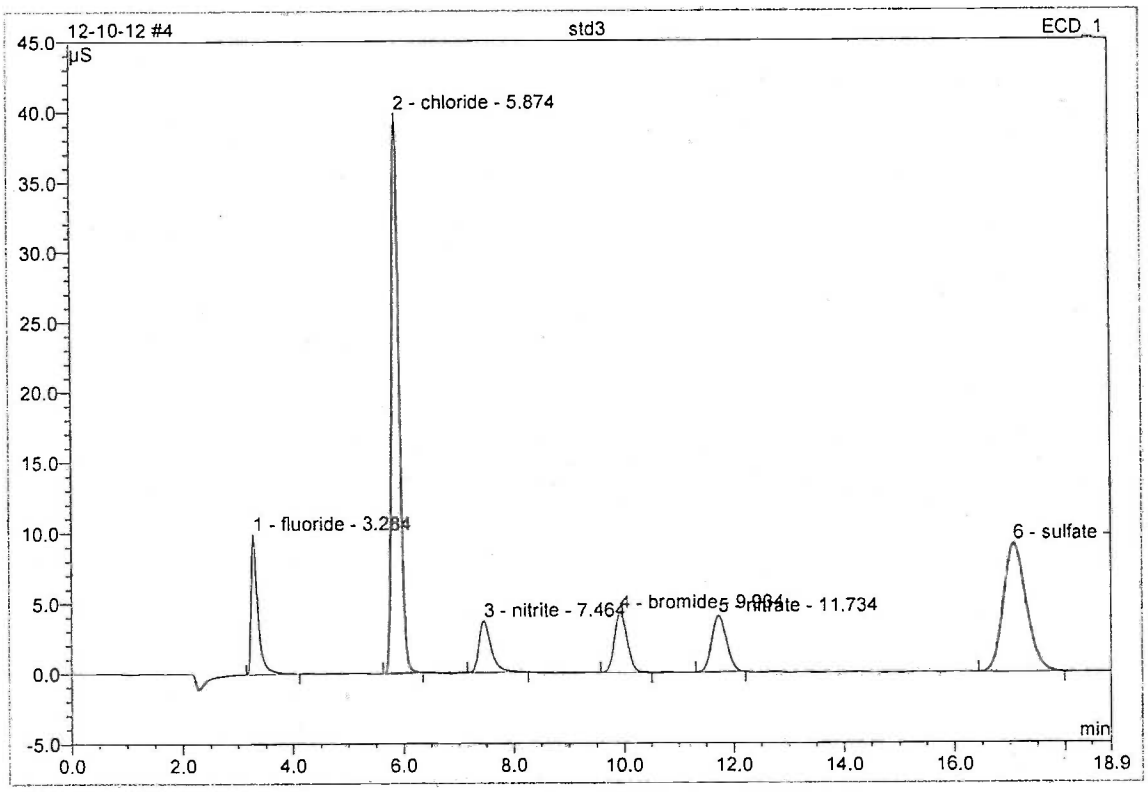


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	3.635	0.545	9.49	1.897	BMB
2	5.86	chloride	13.597	2.214	38.56	8.859	BMB
3	7.47	nitrite	1.395	0.339	5.90	3.000	BMB
4	9.96	bromide	1.630	0.447	7.79	5.050	BMB
5	11.77	nitrate	1.548	0.494	8.60	4.380	BMB
6	14.82	n.a.	0.057	0.011	0.20	n.a.	BMB
7	17.10	sulfate	3.414	1.692	29.46	9.738	BMB
Total:			25.275	5.741	100.00	32.924	

4 std3

cs080612-3

Sample Name:	**std3**	*Injection Volume:*	**20.0**
Vial Number:	**509**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/6/2012 10:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**18.86**	*Sample Amount:*	**1.0000**

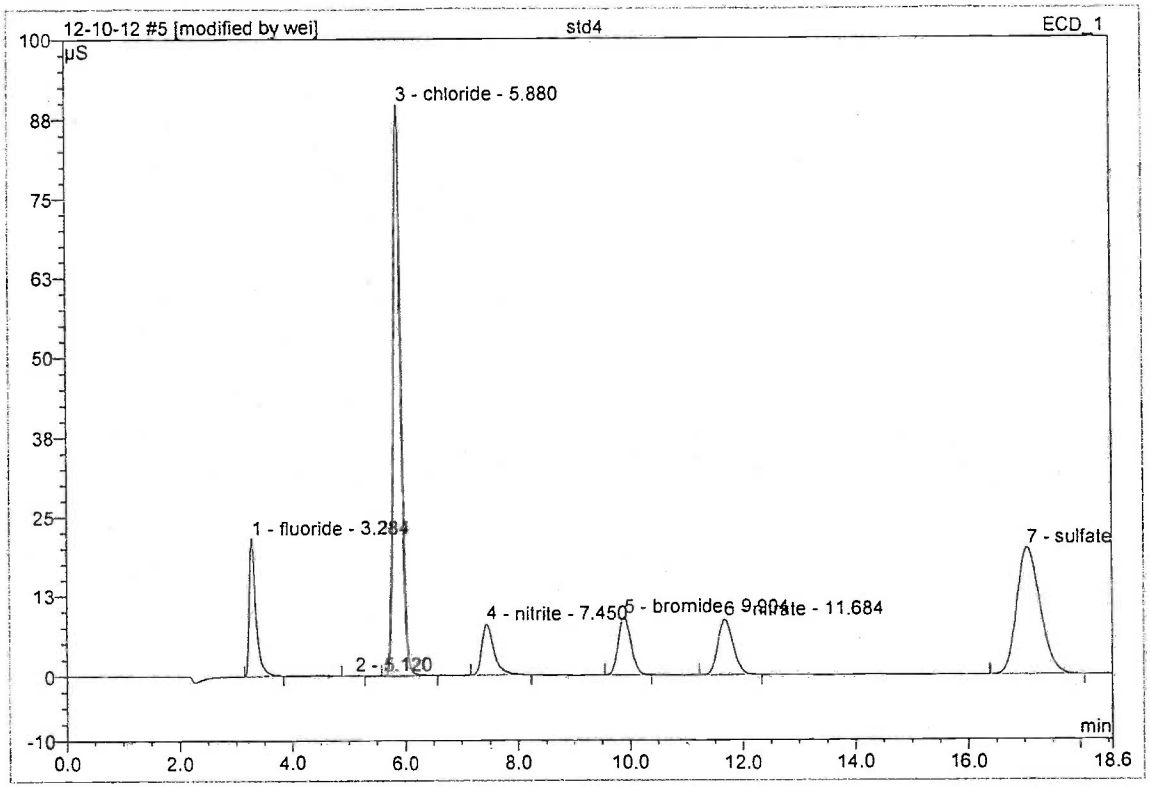


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	9.962	1.454	9.37	5.001	BMB
2	5.87	chloride	39.886	6.264	40.40	24.217	BMB
3	7.46	nitrite	3.670	0.941	6.07	8.181	BMB
4	9.93	bromide	4.278	1.148	7.40	12.642	BMB
5	11.73	nitrate	4.002	1.270	8.19	10.970	BMB
6	17.08	sulfate	9.139	4.430	28.57	24.721	BMB
Total:			70.937	15.507	100.00	85.732	

5 std4

cs080612-4

Sample Name:	**std4**	*Injection Volume:*	**20.0**
Vial Number:	**509**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/6/2012 10:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**18.57**	*Sample Amount:*	**1.0000**

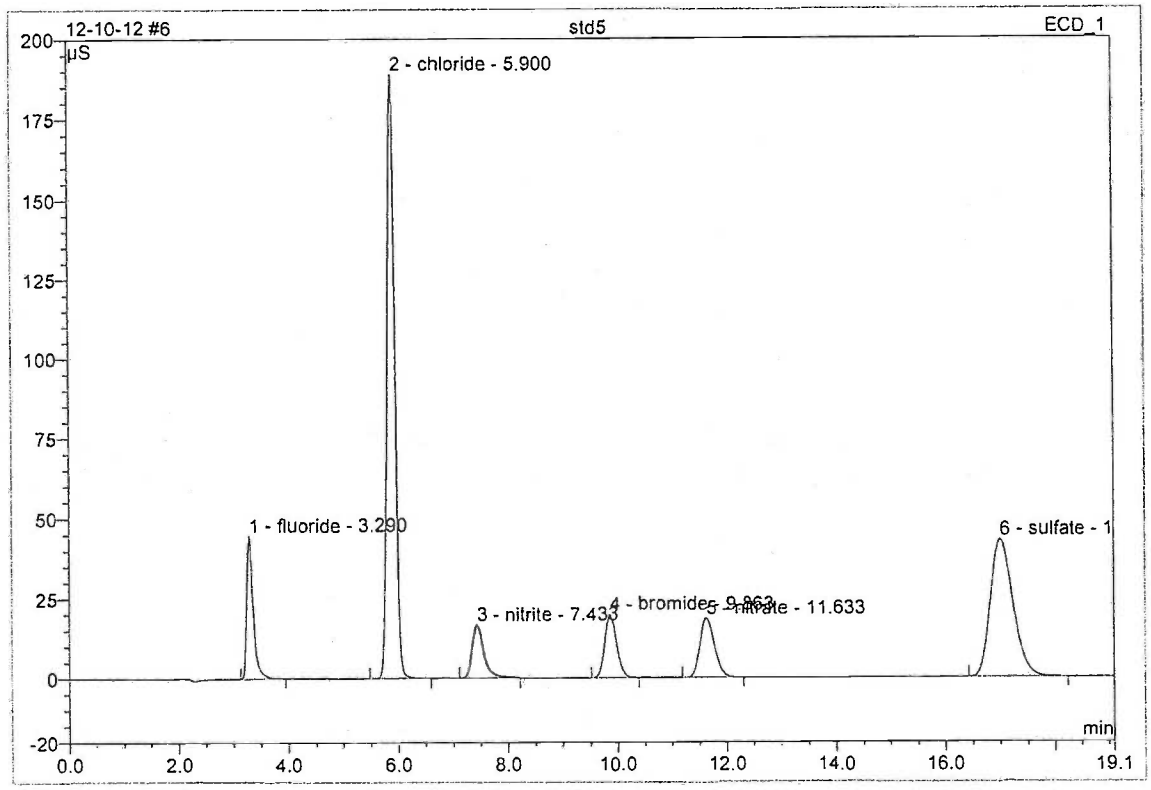


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	21.596	2.975	8.90	10.036	BMB*
2	5.12	n.a.	0.057	0.014	0.04	n.a.	BMB
3	5.88	chloride	89.645	13.936	41.68	50.881	BMB
4	7.45	nitrite	7.877	1.975	5.91	16.649	BMB
5	9.90	bromide	9.004	2.348	7.02	24.888	BMB
6	11.68	nitrate	8.577	2.707	8.10	22.378	BMB
7	17.06	sulfate	19.781	9.478	28.35	50.272	BMB
Total:			156.538	33.433	100.00	175.105	

6 std5

cs080612-5

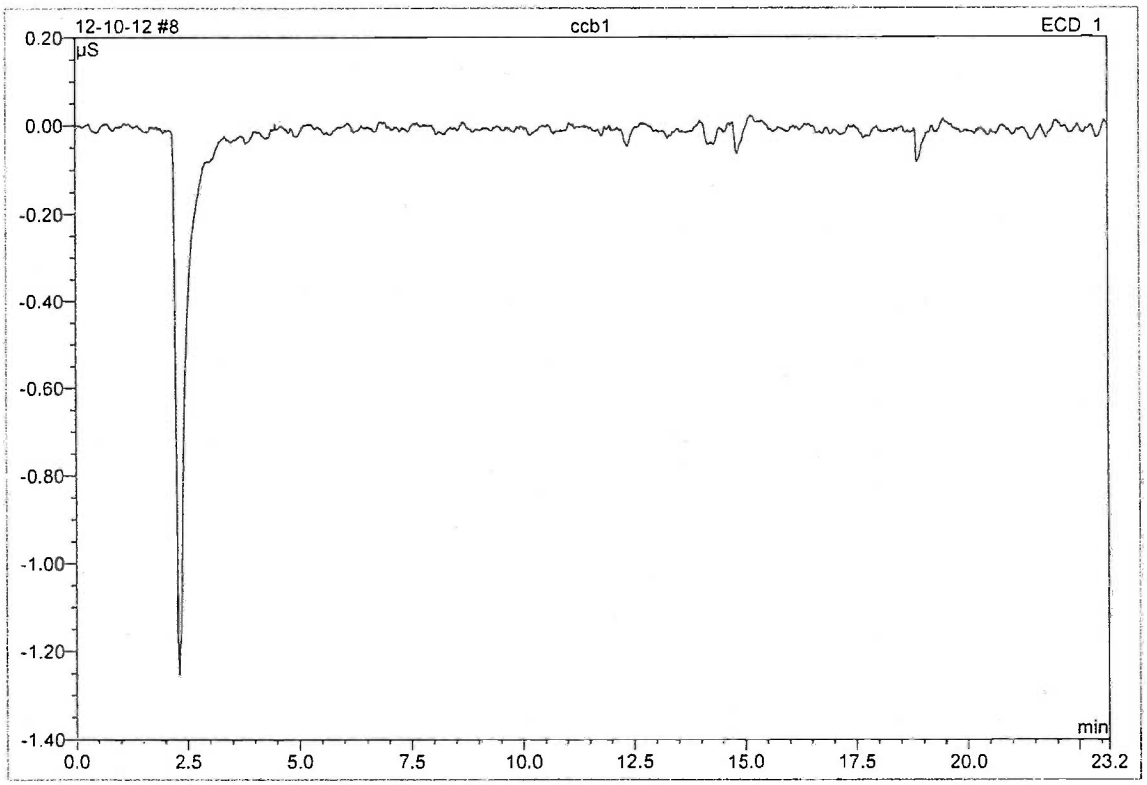
Sample Name:	**std5**	*Injection Volume:*	**20.0**
Vial Number:	**509**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/6/2012 11:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.09**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.29	fluoride	44.717	6.156	8.55	19.992	BMB
2	5.90	chloride	188.788	30.143	41.87	99.860	BMB
3	7.43	nitrite	16.670	4.139	5.75	32.973	BMB
4	9.86	bromide	19.857	5.085	7.06	50.017	BMB
5	11.63	nitrate	18.643	5.800	8.06	44.273	BMB
6	17.01	sulfate	43.073	20.662	28.70	99.958	BMB
Total:			331.747	71.985	100.00	347.073	

8 ccb1

Sample Name:	**ccb1**	*Injection Volume:*	**20.0**
Vial Number:	**535**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/12/2012 9:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**23.17**	*Sample Amount:*	**1.0000**



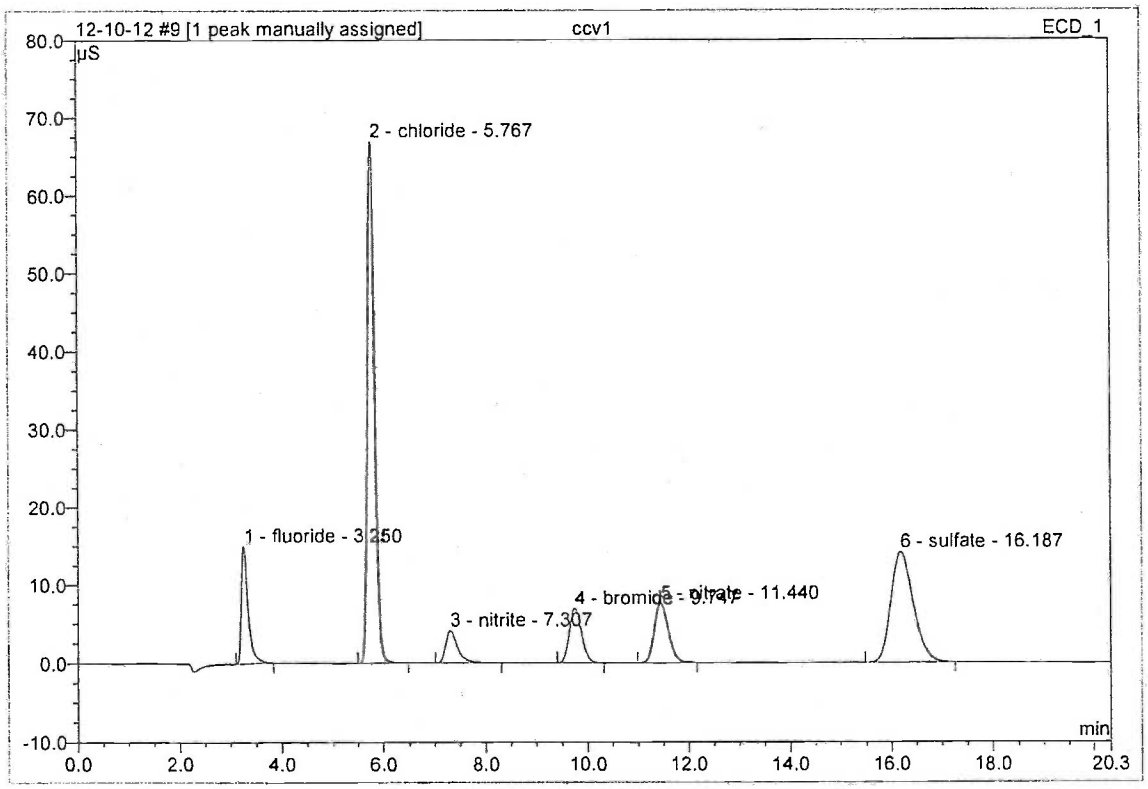
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

same as "MB"

9 ccv1

f=8 cl=40 no2=10 no3=20 so4=40

Sample Name:	**ccv1**	*Injection Volume:*	**20.0**
Vial Number:	**601**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/12/2012 10:00**	*Sample Weight:*	**1.0000**
Run Time (min):	**20.33**	*Sample Amount:*	**1.0000**

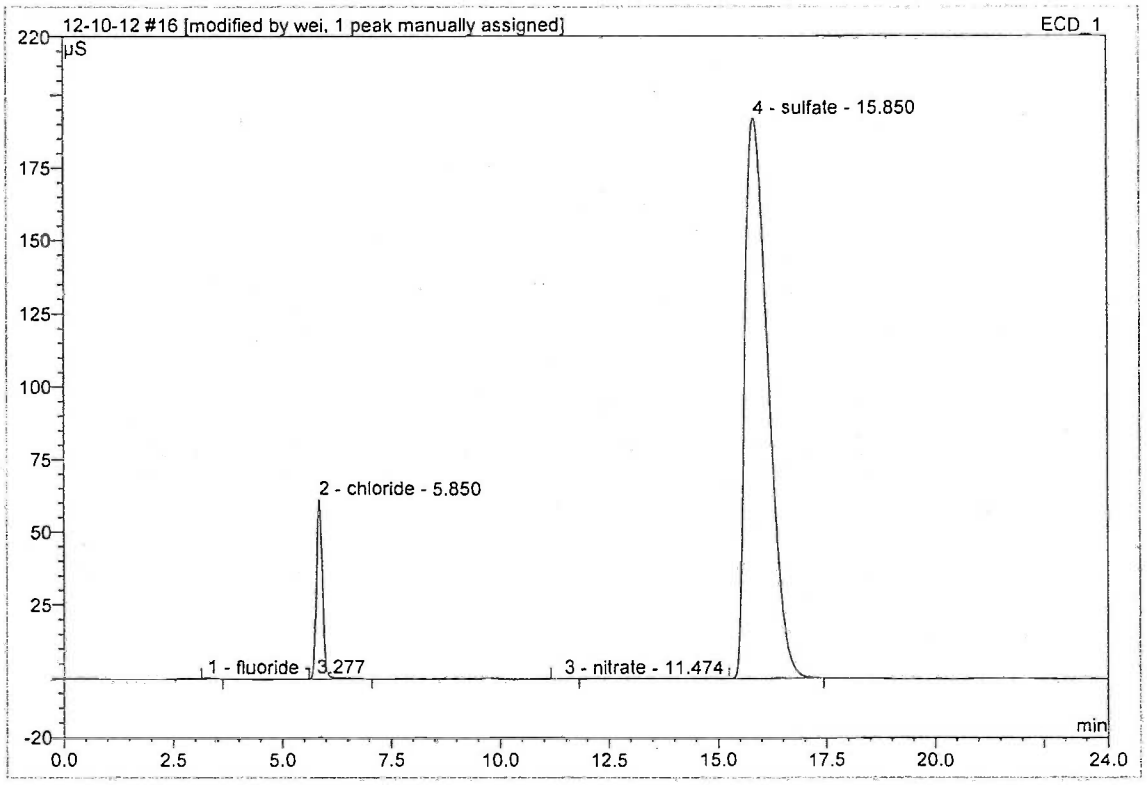


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.25	fluoride	15.001	2.331	8.92	7.926	BMB
2	5.77	chloride	66.927	10.997	42.10	40.993	BMB
3	7.31	nitrite	4.074	1.119	4.29	9.677	BMB
4	9.75	bromide	6.918	1.909	7.31	20.510	BMB
5	11.44	nitrate	7.580	2.470	9.46	20.558	BMB
6	16.19	sulfate	14.162	7.295	27.93	39.517	BMB^
Total:			114.662	26.120	100.00	139.181	

16 311991-015-1

cdm cl/so4/no3 dup

Sample Name:	**311991-015-1**	*Injection Volume:*	**20.0**
Vial Number:	**606**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/12/2012 12:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**24.00**	*Sample Amount:*	**1.0000**

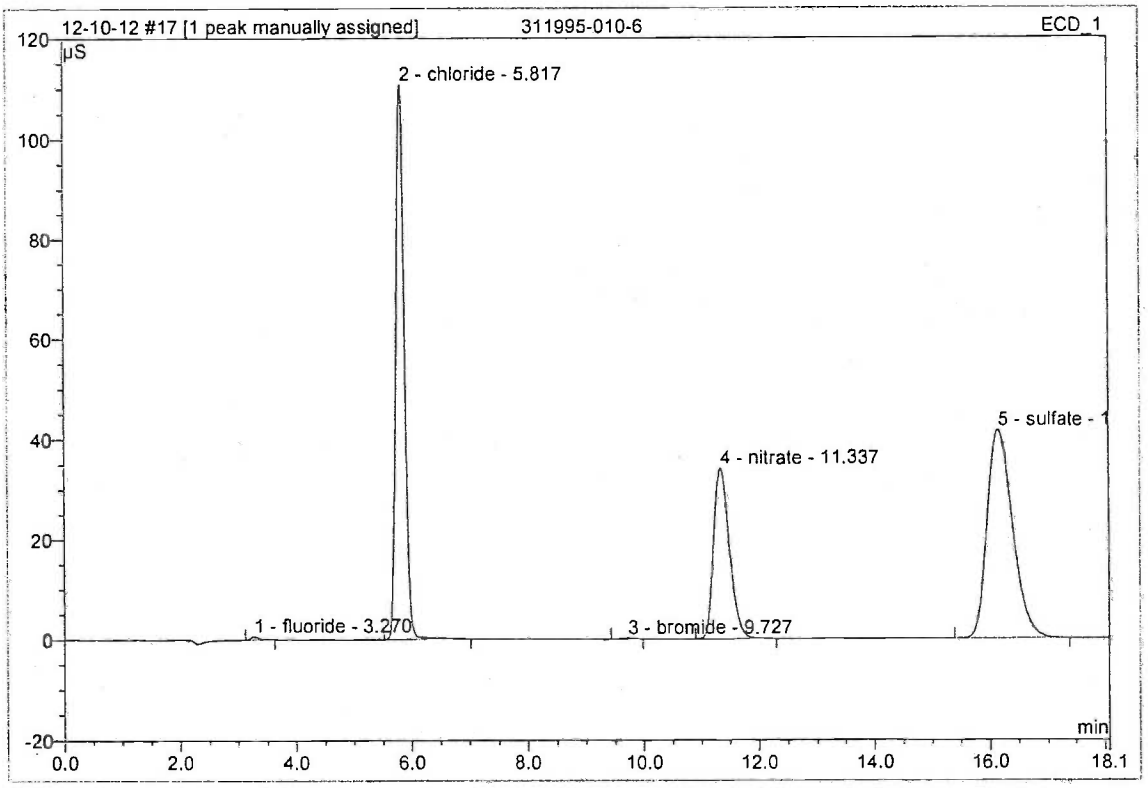


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	0.438	0.077	0.06	0.270	BMB
2	5.85	chloride	61.401	10.055	7.81	37.744	BMB
3	11.47	nitrate	0.078	0.030	0.02	0.268	BMB
4	15.85	sulfate	191.765	118.511	92.10	382.349	BMB^
Total:			253.681	128.672	100.00	420.631	

17 311995-010-6

arcadis cl/so4/no3/no2/f

Sample Name:	**311995-010-6**	*Injection Volume:*	**20.0**
Vial Number:	**607**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/12/2012 12:58**	*Sample Weight:*	**1.0000**
Run Time (min):	**18.07**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.27	fluoride	0.608	0.098	0.19	0.345	BMB
2	5.82	chloride	110.772	18.902	37.01	66.797	BMB
3	9.73	bromide	0.177	0.043	0.08	0.497	BMB
4	11.34	nitrate	34.144	10.846	21.24	74.806	BMB
5	16.15	sulfate	41.571	21.181	41.47	102.086	BMB^
Total:			187.272	51.071	100.00	244.532	

NO_2 = ND

Perchlorate/Integration

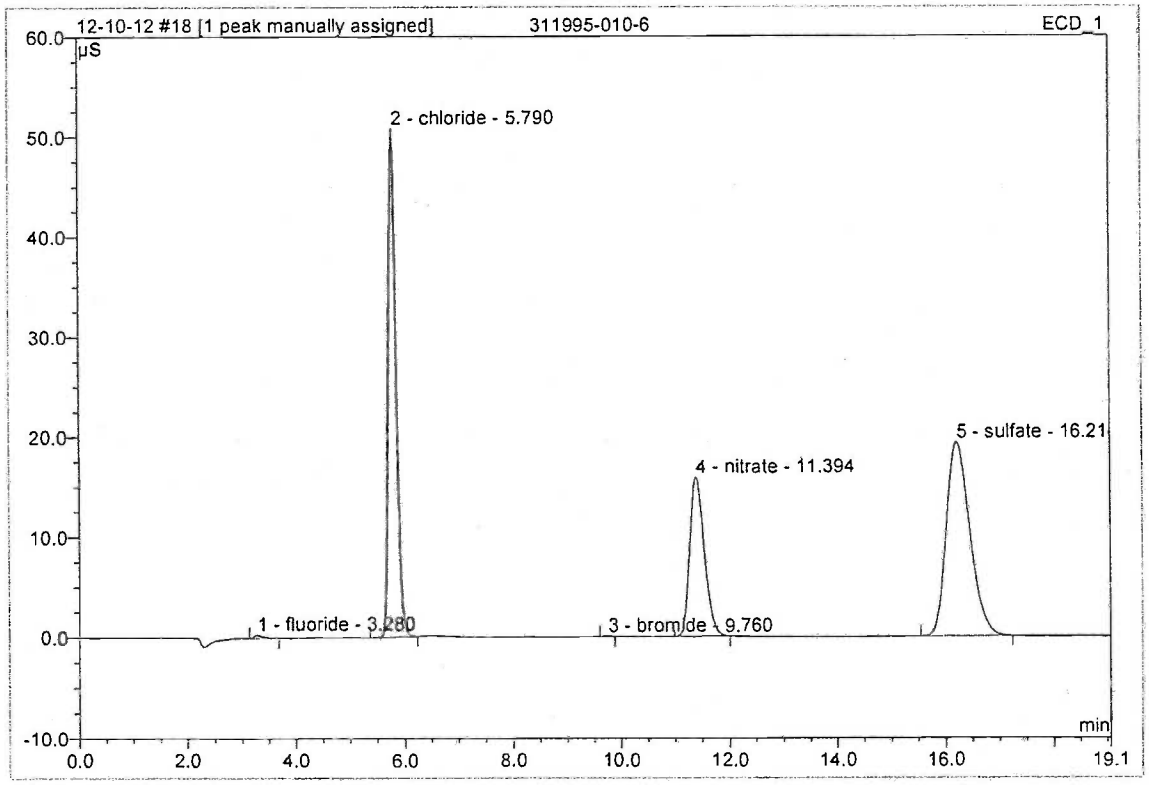
Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB:00108

18 311995-010-6

rep arcadis

Sample Name:	**311995-010-6**	*Injection Volume:*	**20.0**
Vial Number:	**608**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**2.0000**
Recording Time:	**10/12/2012 13:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.06**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	0.323	0.060	0.26	0.424	BMB
2	5.79	chloride	50.751	8.421	36.23	64.006	BMB
3	9.76	bromide	0.059	0.009	0.04	0.205	BMB
4	11.39	nitrate	15.833	4.980	21.43	77.532	BMB
5	16.21	sulfate	19.245	9.769	42.04	103.346	BMB^
Total:			86.211	23.239	100.00	245.512	

$N - NO_3 = \frac{77.532}{4.43} = 17.50$

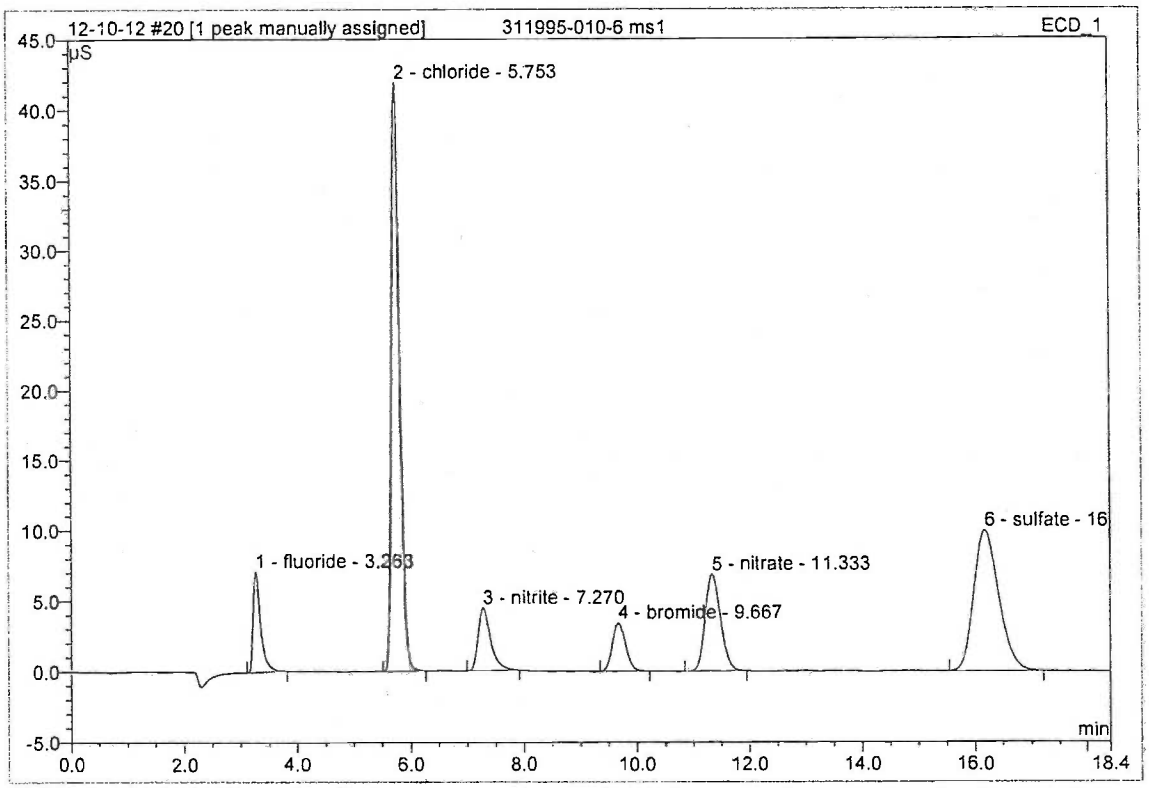
Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

20 311995-010-6 ms1

ms1

Sample Name:	**311995-010-6 ms1**	*Injection Volume:*	**20.0**
Vial Number:	**610**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**10.0000**
Recording Time:	**10/12/2012 14:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**18.41**	*Sample Amount:*	**1.0000**

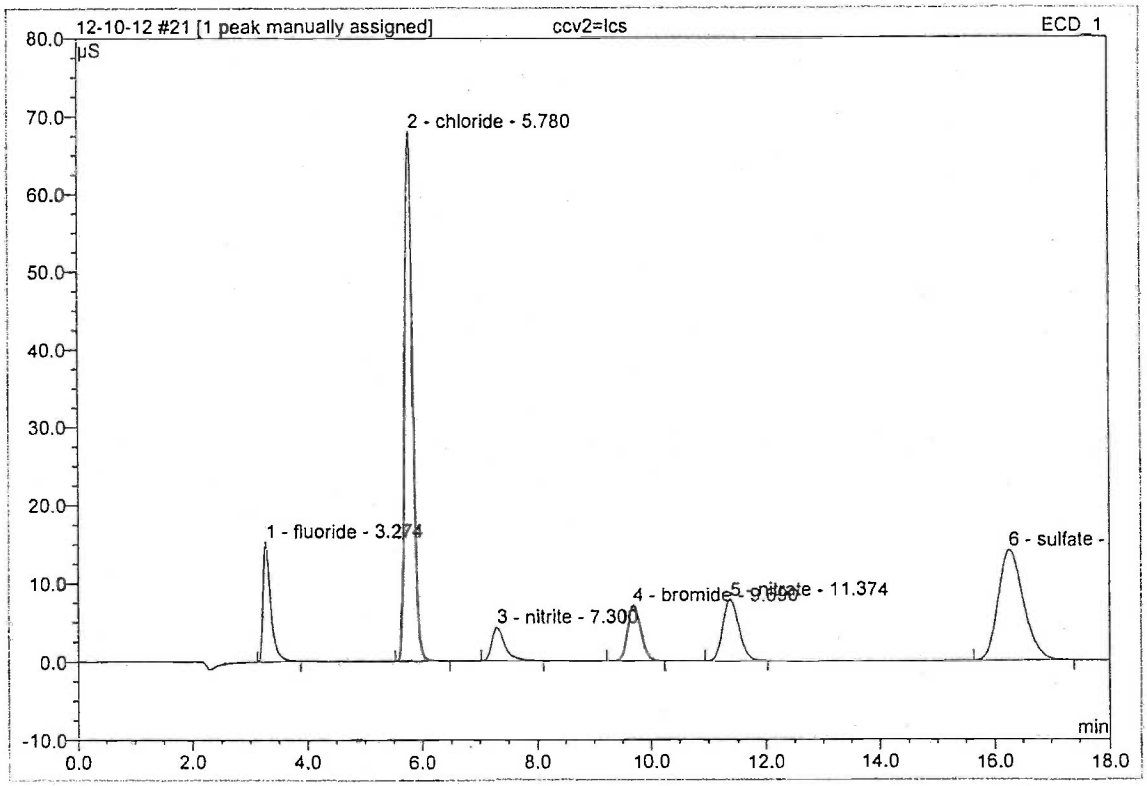


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.26	fluoride	7.124	1.115	6.45	38.521	BMB
2	5.75	chloride	41.903	6.797	39.34	261.632	BMB
3	7.27	nitrite	4.445	1.144	6.62	98.844	BMB
4	9.67	bromide	3.395	0.923	5.34	102.463	BMB
5	11.33	nitrate	6.871	2.182	12.63	183.185	BMB
6	16.18	sulfate	9.958	5.116	29.61	283.400	BMB^
Total:			73.695	17.277	100.00	968.045	

21 ccv2=lcs

f=8 cl=40 no2=10 no3=20 so4=40

Sample Name:	**ccv2=lcs**	*Injection Volume:*	**20.0**
Vial Number:	**611**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/12/2012 14:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**18.03**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.27	fluoride	15.338	2.344	9.00	7.971	BMB
2	5.78	chloride	67.975	11.020	42.29	41.072	BMB
3	7.30	nitrite	4.204	1.116	4.28	9.645	BMB
4	9.69	bromide	7.030	1.906	7.31	20.479	BMB
5	11.37	nitrate	7.710	2.470	9.48	20.560	BMB
6	16.26	sulfate	14.053	7.201	27.64	39.043	BMB^
Total:			116.311	26.056	100.00	138.770	

same as "LCS"

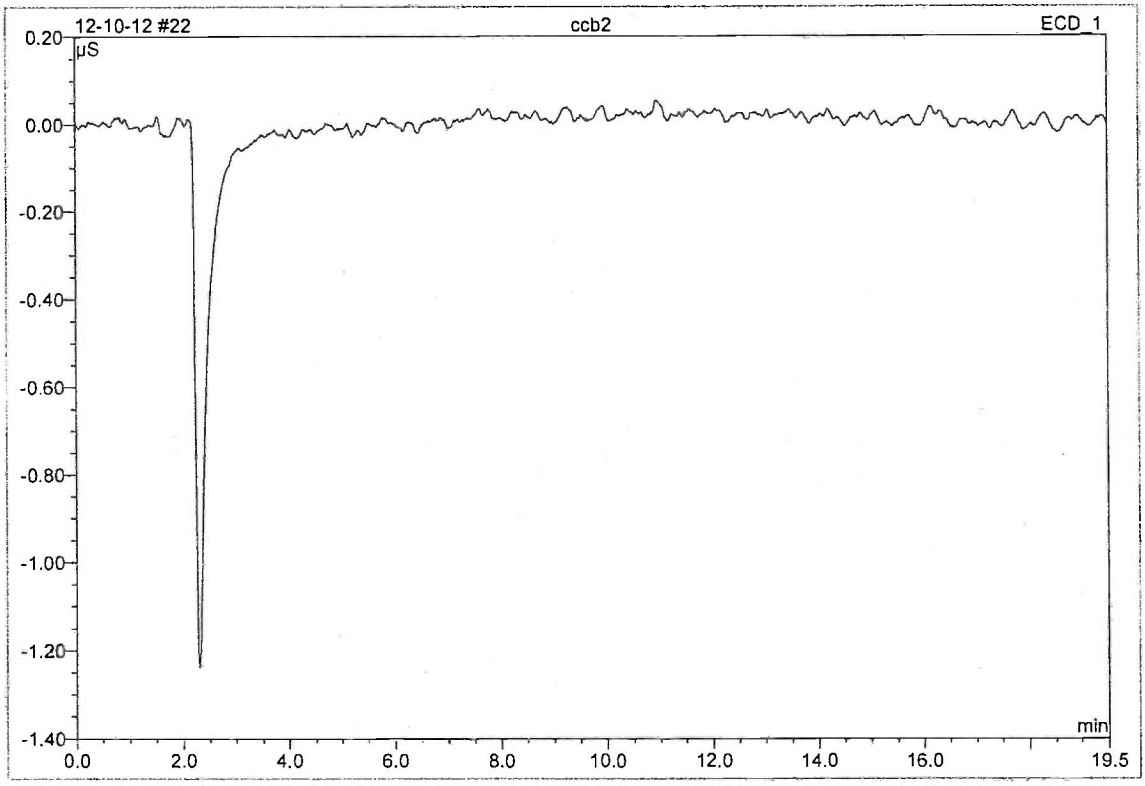
Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00110

22 ccb2

Sample Name:	**ccb2**	*Injection Volume:*	**20.0**
Vial Number:	**612**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/12/2012 14:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

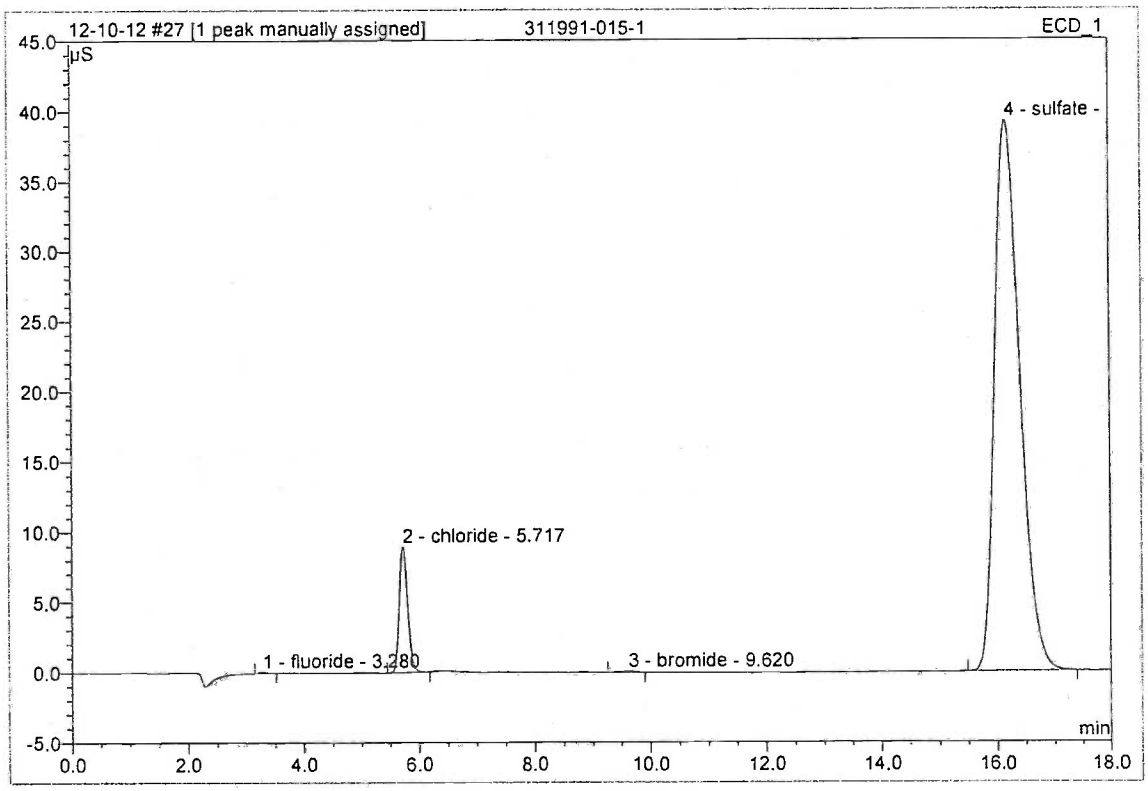


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

27 311991-015-1

cdm rep for so4

Sample Name:	**311991-015-1**	*Injection Volume:*	**20.0**
Vial Number:	**617**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**5.0000**
Recording Time:	**10/12/2012 16:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**17.97**	*Sample Amount:*	**1.0000**

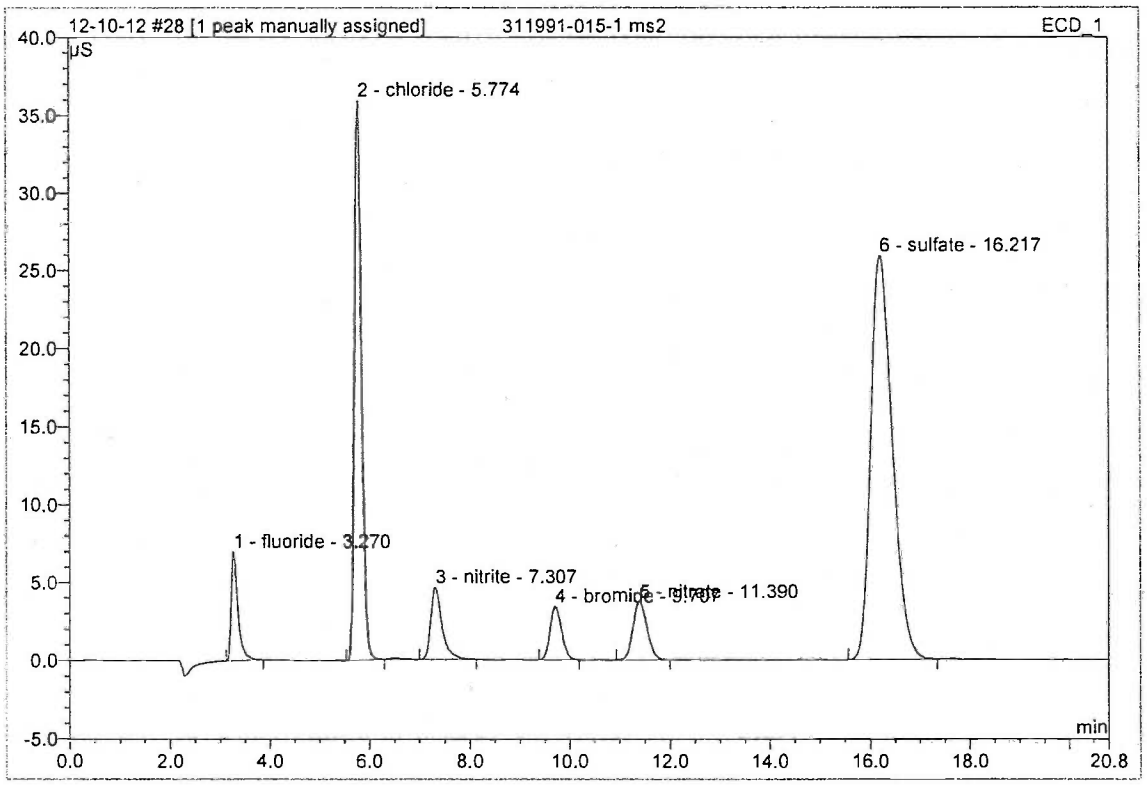


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	0.103	0.017	0.08	0.290	BMB
2	5.72	chloride	8.978	1.520	7.08	30.605	BMB
3	9.62	bromide	0.090	0.028	0.13	1.606	BMB
4	16.17	sulfate	39.208	19.895	92.71	483.962	BMB^
Total:			48.378	21.460	100.00	516.465	

28 311991-015-1 ms2

ms2

Sample Name:	**311991-015-1 ms2**	*Injection Volume:*	**20.0**
Vial Number:	**618**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**10.0000**
Recording Time:	**10/12/2012 16:35**	*Sample Weight:*	**1.0000**
Run Time (min):	**20.80**	*Sample Amount:*	**1.0000**

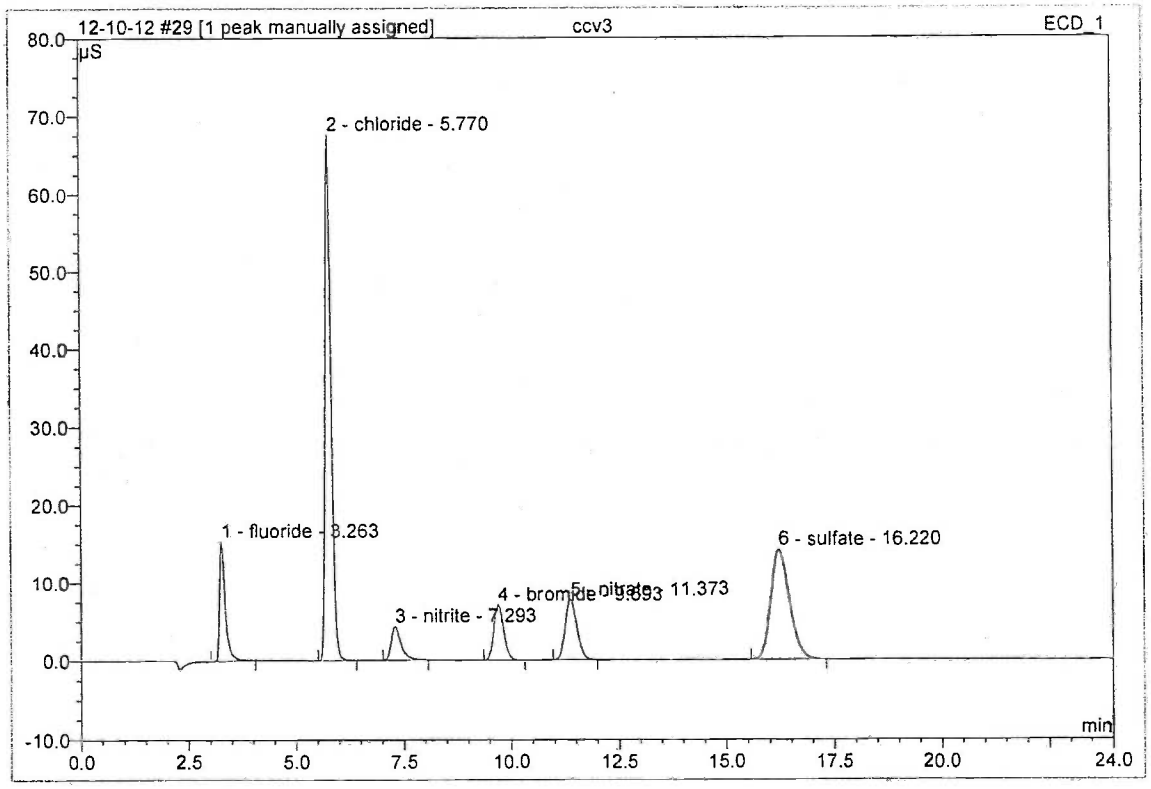


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.27	fluoride	7.006	1.108	4.72	38.291	BMB
2	5.77	chloride	35.945	5.938	25.28	230.144	BMB
3	7.31	nitrite	4.641	1.224	5.21	105.456	BMB
4	9.71	bromide	3.405	0.933	3.97	103.484	BMB
5	11.39	nitrate	3.707	1.199	5.10	103.830	BMB
6	16.22	sulfate	25.846	13.088	55.72	672.097	BMB^
Total:			80.550	23.488	100.00	1253.302	

29 ccv3

f=8 cl=40 no2=10 no3=20 so4=40

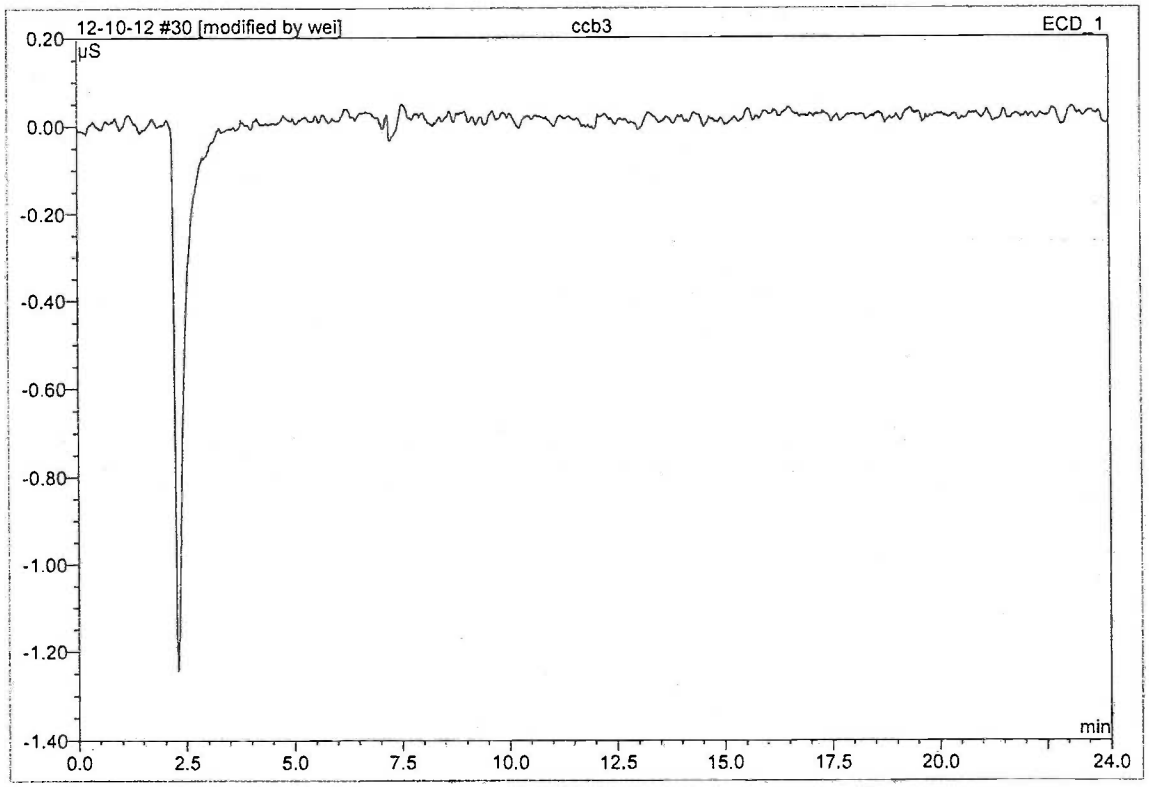
Sample Name:	**ccv3**	*Injection Volume:*	**20.0**
Vial Number:	**619**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/12/2012 16:58**	*Sample Weight:*	**1.0000**
Run Time (min):	**24.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.26	fluoride	15.343	2.373	9.14	8.065	BMB
2	5.77	chloride	67.551	10.962	42.21	40.873	BMB
3	7.29	nitrite	4.287	1.144	4.41	9.880	BMB
4	9.69	bromide	7.065	1.907	7.34	20.488	BMB
5	11.37	nitrate	7.685	2.449	9.43	20.399	BMB
6	16.22	sulfate	14.065	7.133	27.47	38.700	BMB^
Total:			115.995	25.967	100.00	138.406	

30 ccb3

Sample Name:	**ccb3**	*Injection Volume:*	**20.0**
Vial Number:	**620**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/12/2012 17:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**24.00**	*Sample Amount:*	**1.0000**



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

Associated Laboratories

Non-Conformance Document

Date: 10/15/2012

Document File #:

Lab Request: LR 311995-002

Type of

NCD:

Client ID:

(QA Limits, Client Req, Other)

Department: Chemistry Dept

Description of Non-Conformance:
They added NO_3/NO_2 test on 10/15/12, but sample collect on 10/11/12. past 48 hours holding-time.
Signed (Initiator) W. W Date: 10/15/12

Description of Corrective Action:
Signed (Supervisor): Sohair Galass Date: 10/15/12

QA Manager Approval:
Signed (QA Manager): Hongling Cao Date: 10/10/2012

ALAB : 00116

ANIONS by ION CHROMATOGRAPHY

DATA PACKAGE

CONFIDENTIAL

Sequence: 12-10-15
Operator: wei
Printed: 10/16/2012 11:28:58 AM

Title: ClO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Assciated_lab
#Samples: 28
Created: 10/15/2012 9:52:13 AM by wei
(Modified, not saved)

No.	Name	Type	Program	Method	Status
1	ccb	Unknown	anion_program	PERCHLORATE METHOD	Finished
2	std1	Standard	anion_program	PERCHLORATE METHOD	Finished
3	std2	Standard	anion_program	PERCHLORATE METHOD	Finished
4	std3	Standard	anion_program	PERCHLORATE METHOD	Finished
5	std4	Standard	anion_program	PERCHLORATE METHOD	Finished
6	std5	Standard	anion_program	PERCHLORATE METHOD	Finished
7	std6	Unknown	anion 16	PERCHLORATE METHOD	Finished
8	ccb1=mb	Unknown	anion_program	PERCHLORATE METHOD	Finished
9	ccv1	Unknown	anion_program	PERCHLORATE METHOD	Finished
10	312057-003-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
11	312057-004-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
12	312058-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
13	312058-002-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
14	312058-003-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
15	312058-004-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
16	312110-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
17	312110-002-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
18	312110-003-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
19	312111-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
20	312058-004-1 ms1	Unknown	anion_program	PERCHLORATE METHOD	Finished
21	ccv2=lcs1	Unknown	anion_program	PERCHLORATE METHOD	Finished
22	ccb2	Unknown	anion_program	PERCHLORATE METHOD	Finished
23	312111-002-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
24	312111-003-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
25	311995-002-4	Unknown	anion_program	PERCHLORATE METHOD	Finished
26	311995-002-4 ms2	Unknown	anion_program	PERCHLORATE METHOD	Finished
27	ccv3	Unknown	anion_program	PERCHLORATE METHOD	Finished
28	ccb3	Unknown	anion_program	PERCHLORATE METHOD	Finished

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CONFIDENTIAL

Sequence: 12-10-15
Operator: wei
Printed: 10/16/2012 11:28:58 AM

Title: ClO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Assciated_lab
#Samples: 28
Created: 10/15/2012 9:52:13 AM by wei
(Modified, not saved)

No.	Name	Inj. Date/Time	Dil. Factor	Comment
1	ccb	8/6/2012 9:20:37 AM	1.0000	no guard separate014785 lot007-17-139
2	std1	8/6/2012 9:47:19 AM	1.0000	cs080612-1
3	std2	8/6/2012 10:09:13 AM	1.0000	cs080612-2
4	std3	8/6/2012 10:30:13 AM	1.0000	cs080612-3
5	std4	8/6/2012 10:51:45 AM	1.0000	cs080612-4
6	std5	8/6/2012 11:12:58 AM	1.0000	cs080612-5
7	std6	8/6/2012 11:34:43 AM	1.0000	cs080612-6
8	ccb1=mb	10/15/2012 9:53:57 AM	1.0000	
9	ccv1	10/15/2012 10:17:59 AM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
10	312057-003-1	10/15/2012 11:08:43 AM	25.0000	cl/so4
11	312057-004-1	10/15/2012 11:29:20 AM	1.0000	cl/so4
12	312058-001-1	10/15/2012 11:50:49 AM	10.0000	cl/so4
13	312058-002-1	10/15/2012 12:12:50 PM	10.0000	cl/so4
14	312058-003-1	10/15/2012 12:33:54 PM	10.0000	cl/so4
15	312058-004-1	10/15/2012 12:59:11 PM	1.0000	cl/so4
16	312110-001-1	10/15/2012 1:21:12 PM	1.0000	tin
17	312110-002-1	10/15/2012 1:41:25 PM	1.0000	tin
18	312110-003-1	10/15/2012 1:56:55 PM	1.0000	tin
19	312111-001-1	10/15/2012 2:12:00 PM	1.0000	well 23
20	312058-004-1 ms1	10/15/2012 2:32:21 PM	10.0000	ms1
21	ccv2=lcs1	10/15/2012 2:57:42 PM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
22	ccb2	10/15/2012 3:24:13 PM	1.0000	
23	312111-002-1	10/15/2012 3:44:44 PM	1.0000	well 28
24	312111-003-1	10/15/2012 4:11:14 PM	1.0000	blend
25	311995-002-4	10/15/2012 4:27:53 PM	1.0000	arcadis pass holding-time
26	311995-002-4 ms2	10/15/2012 4:48:54 PM	10.0000	ms2
27	ccv3	10/15/2012 5:09:52 PM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
28	ccb3	10/15/2012 5:36:22 PM	1.0000	

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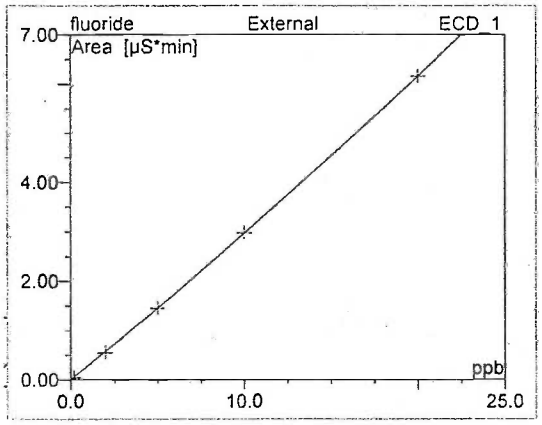
CONFIDENTIAL

Sequence:	**12-09-27**	*Inj. Vol.:*	**20.0**
Program:	**anion_program**	*Operator:*	**n.a.**
Inj. Date/Time:	**08/06/12 10:51**	*Run Time:*	**18.57**

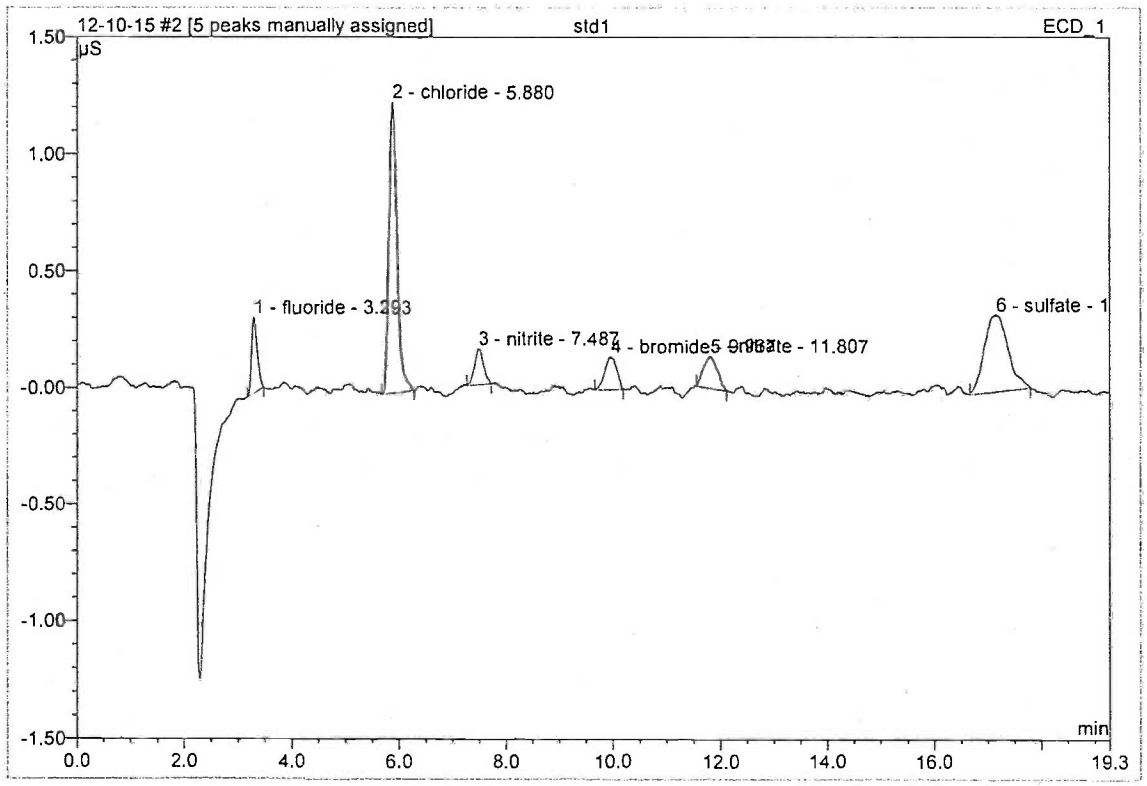


No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
1	3.28	fluoride	Quad	5	0.000	0.285	0.001	99.9948
3	5.88	chloride	Quad	5	0.000	0.245	0.001	99.9653
4	7.45	nitrite	Quad	5	0.000	0.112	0.000	99.9851
5	9.90	bromide	Quad	5	0.000	0.087	0.000	99.9977
6	11.68	nitrate	Quad	5	0.000	0.111	0.000	99.9933
7	17.06	sulfate	Quad	5	0.000	0.170	0.000	99.9970
AVERAGE:					0.0000	0.1682	0.0005	99.9888

2 std1

cs080612-1

Sample Name:	**std1**	*Injection Volume:*	**20.0**
Vial Number:	**531**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/6/2012 9:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.27**	*Sample Amount:*	**1.0000**

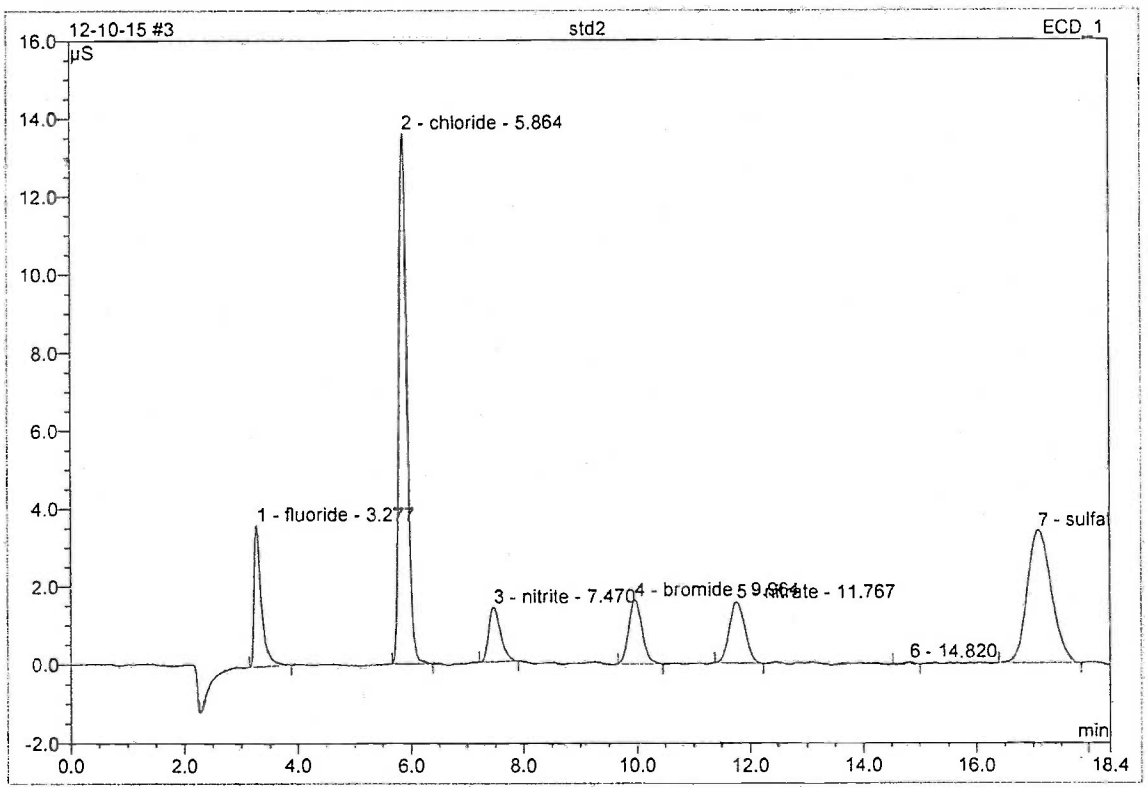


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.29	fluoride	0.324	0.041	7.70	0.144	BMB
2	5.88	chloride	1.244	0.217	40.61	0.883	BMB^
3	7.49	nitrite	0.153	0.031	5.73	0.274	BMB^
4	9.97	bromide	0.139	0.036	6.83	0.418	BMB^
5	11.81	nitrate	0.135	0.040	7.59	0.365	BMB^
6	17.16	sulfate	0.327	0.168	31.54	0.987	BMB^
Total:			2.322	0.534	100.00	3.071	

3 std2

cs080612-2

Sample Name:	**std2**	*Injection Volume:*	**20.0**
Vial Number:	**509**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/6/2012 10:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**18.38**	*Sample Amount:*	**1.0000**

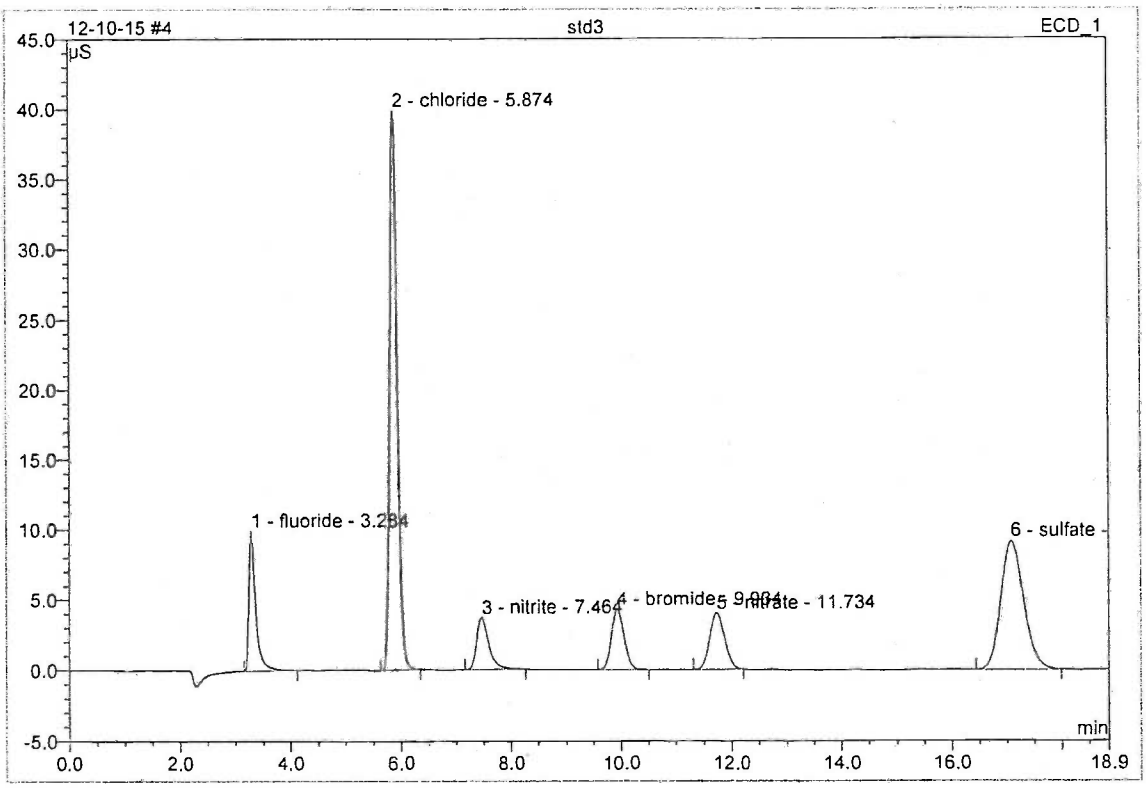


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	3.635	0.545	9.49	1.897	BMB
2	5.86	chloride	13.597	2.214	38.56	8.859	BMB
3	7.47	nitrite	1.395	0.339	5.90	3.000	BMB
4	9.96	bromide	1.630	0.447	7.79	5.050	BMB
5	11.77	nitrate	1.548	0.494	8.60	4.380	BMB
6	14.82	n.a.	0.057	0.011	0.20	n.a.	BMB
7	17.10	sulfate	3.414	1.692	29.46	9.738	BMB
Total:			25.275	5.741	100.00	32.924	

4 std3

cs080612-3

Sample Name:	**std3**	*Injection Volume:*	**20.0**
Vial Number:	**509**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/6/2012 10:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**18.86**	*Sample Amount:*	**1.0000**

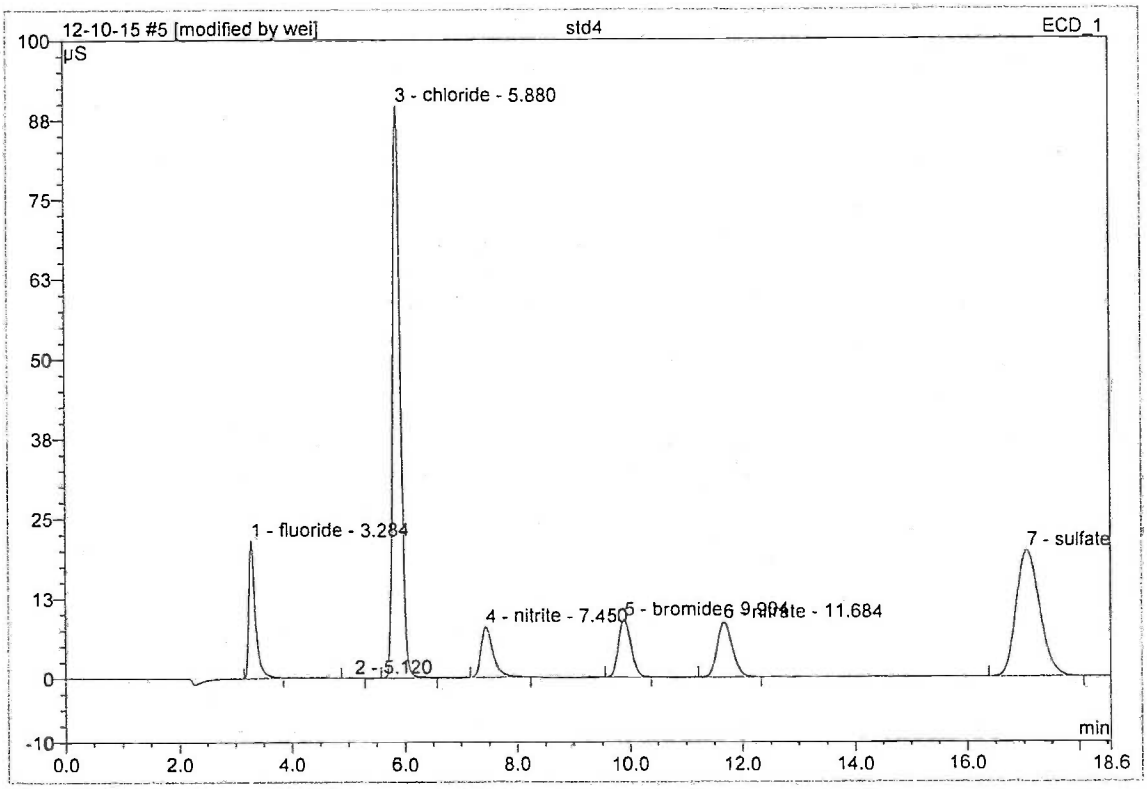


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	9.962	1.454	9.37	5.001	BMB
2	5.87	chloride	39.886	6.264	40.40	24.217	BMB
3	7.46	nitrite	3.670	0.941	6.07	8.181	BMB
4	9.93	bromide	4.278	1.148	7.40	12.642	BMB
5	11.73	nitrate	4.002	1.270	8.19	10.970	BMB
6	17.08	sulfate	9.139	4.430	28.57	24.721	BMB
Total:			70.937	15.507	100.00	85.732	

5 std4

cs080612-4

Sample Name:	**std4**	*Injection Volume:*	**20.0**
Vial Number:	**509**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/6/2012 10:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**18.57**	*Sample Amount:*	**1.0000**

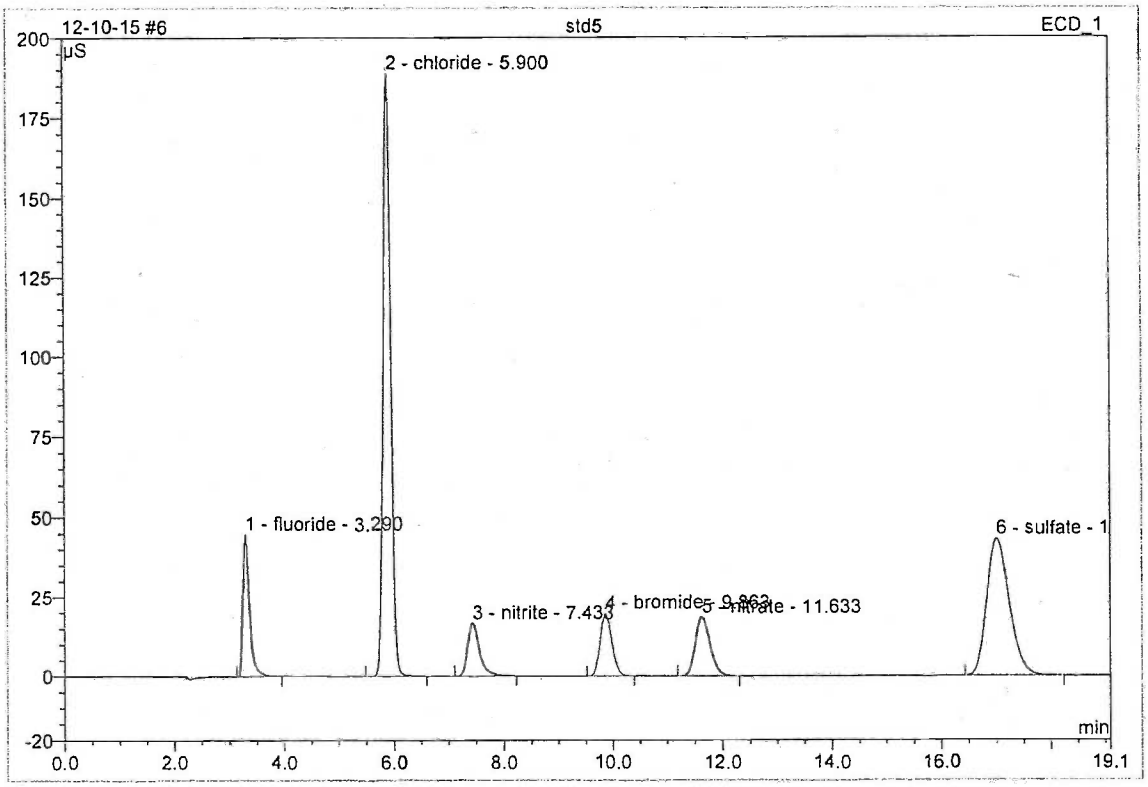


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	21.596	2.975	8.90	10.036	BMB*
2	5.12	n.a.	0.057	0.014	0.04	n.a.	BMB
3	5.88	chloride	89.645	13.936	41.68	50.881	BMB
4	7.45	nitrite	7.877	1.975	5.91	16.649	BMB
5	9.90	bromide	9.004	2.348	7.02	24.888	BMB
6	11.68	nitrate	8.577	2.707	8.10	22.378	BMB
7	17.06	sulfate	19.781	9.478	28.35	50.272	BMB
Total:			156.538	33.433	100.00	175.105	

6 std5

cs080612-5

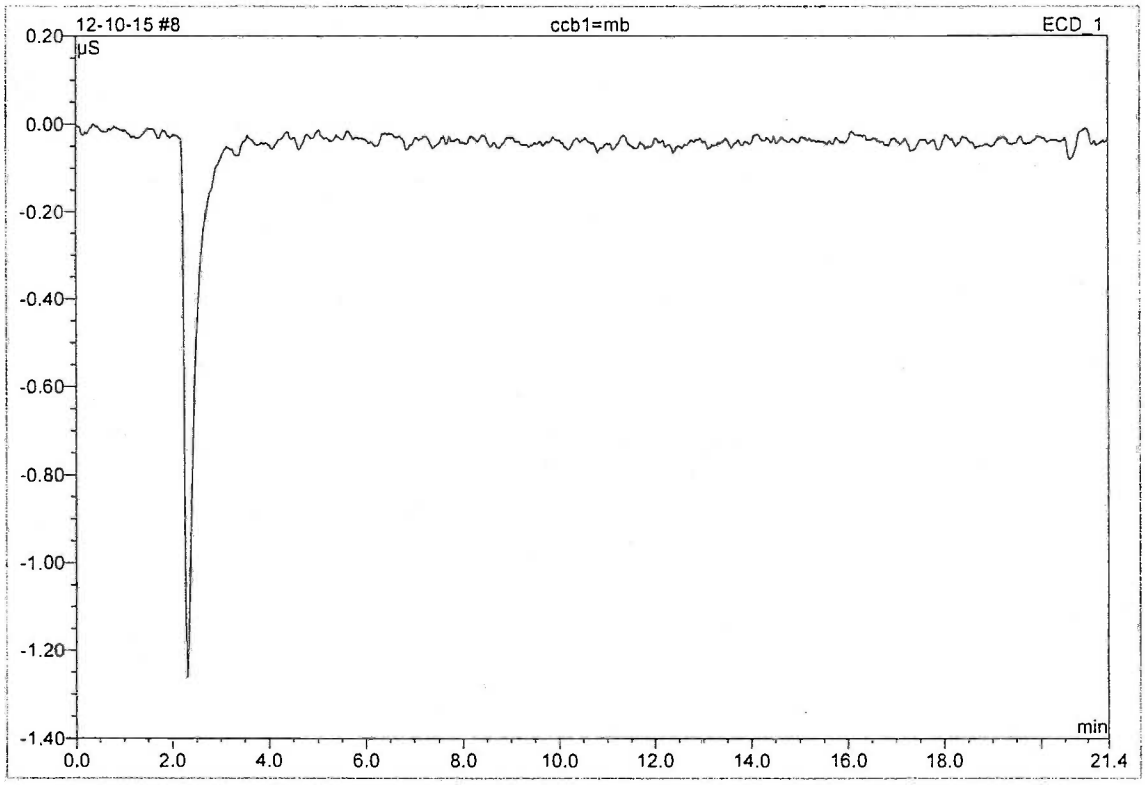
Sample Name:	**std5**	*Injection Volume:*	**20.0**
Vial Number:	**509**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/6/2012 11:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.09**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.29	fluoride	44.717	6.156	8.55	19.992	BMB
2	5.90	chloride	188.788	30.143	41.87	99.860	BMB
3	7.43	nitrite	16.670	4.139	5.75	32.973	BMB
4	9.86	bromide	19.857	5.085	7.06	50.017	BMB
5	11.63	nitrate	18.643	5.800	8.06	44.273	BMB
6	17.01	sulfate	43.073	20.662	28.70	99.958	BMB
Total:			331.747	71.985	100.00	347.073	

8 ccb1=mb

Sample Name:	**ccb1=mb**	*Injection Volume:*	**20.0**
Vial Number:	**536**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/15/2012 9:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**21.43**	*Sample Amount:*	**1.0000**



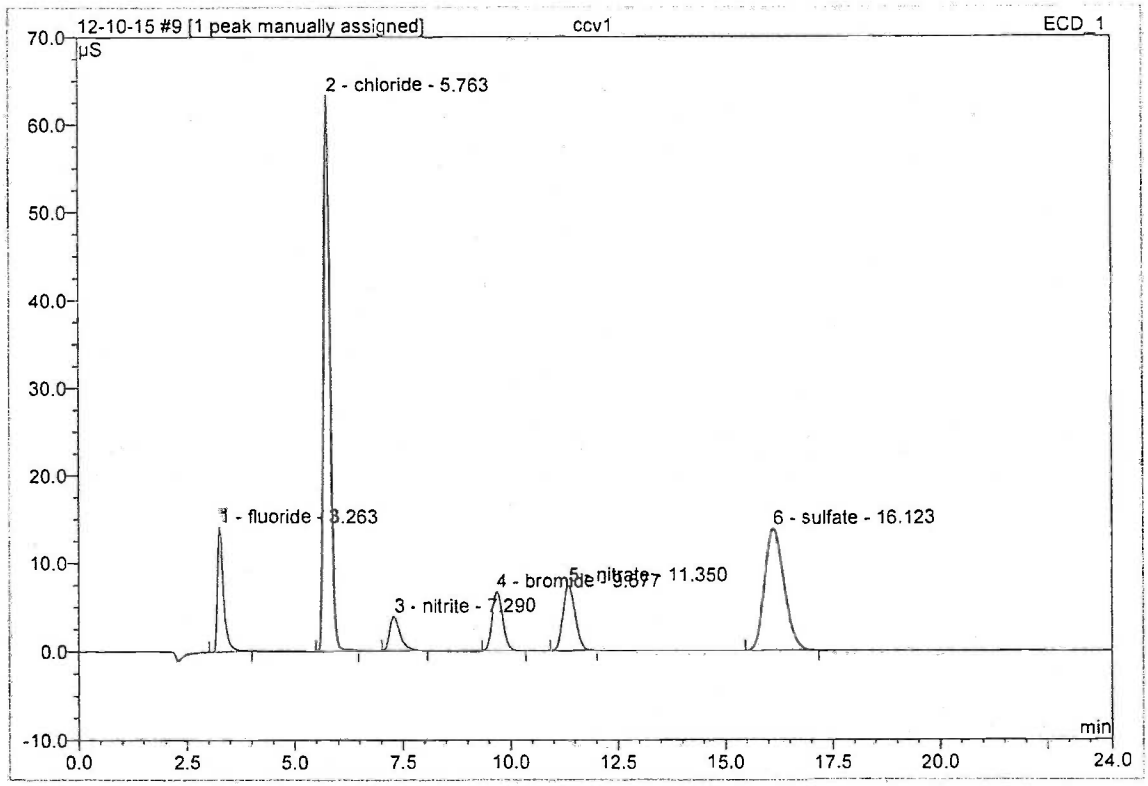
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

MB

9 ccv1

f=8 cl=40 no2=10 no3=20 so4=40

Sample Name:	**ccv1**	*Injection Volume:*	**20.0**
Vial Number:	**601**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/15/2012 10:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**24.00**	*Sample Amount:*	**1.0000**

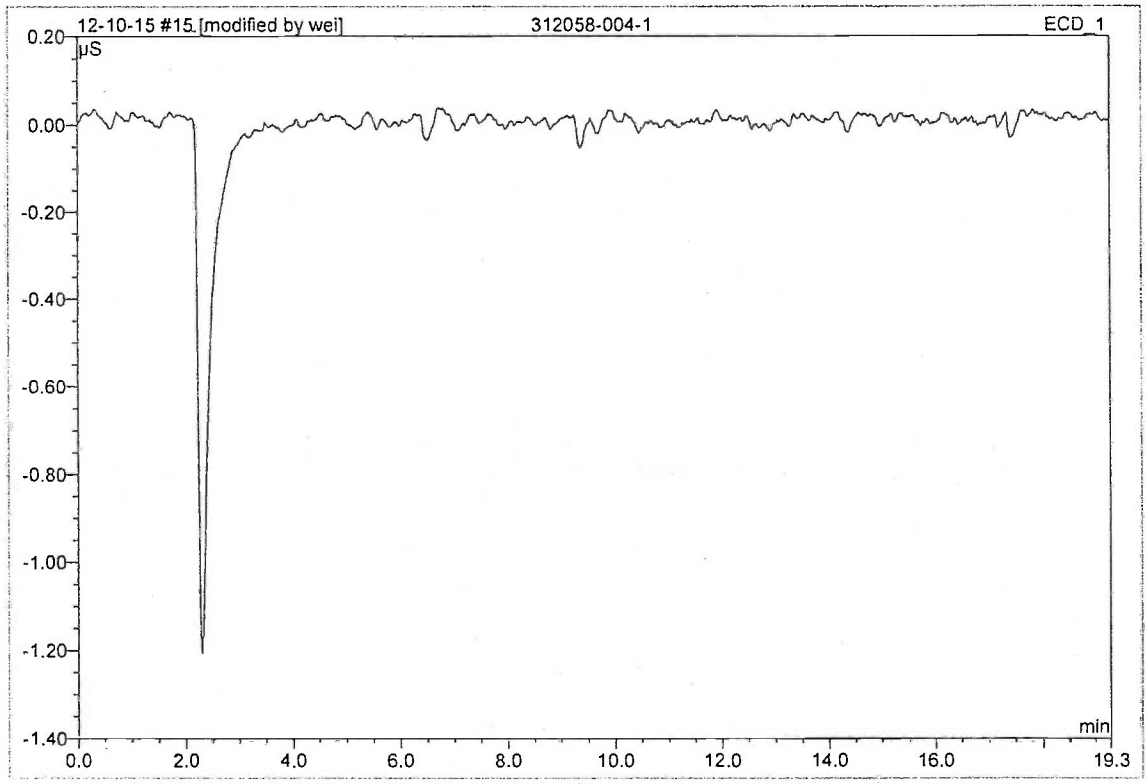


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.26	fluoride	14.140	2.309	8.91	7.856	BMB
2	5.76	chloride	63.292	10.935	42.21	40.781	BMB
3	7.29	nitrite	3.869	1.088	4.20	9.416	BMB
4	9.68	bromide	6.681	1.906	7.35	20.475	BMB
5	11.35	nitrate	7.357	2.455	9.48	20.447	BMB
6	16.12	sulfate	13.807	7.216	27.85	39.118	BMB^
Total:			109.144	25.909	100.00	138.093	

15 312058-004-1

cl/so4

Sample Name:	**312058-004-1**	*Injection Volume:*	**20.0**
Vial Number:	**605**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/15/2012 12:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.29**	*Sample Amount:*	**1.0000**

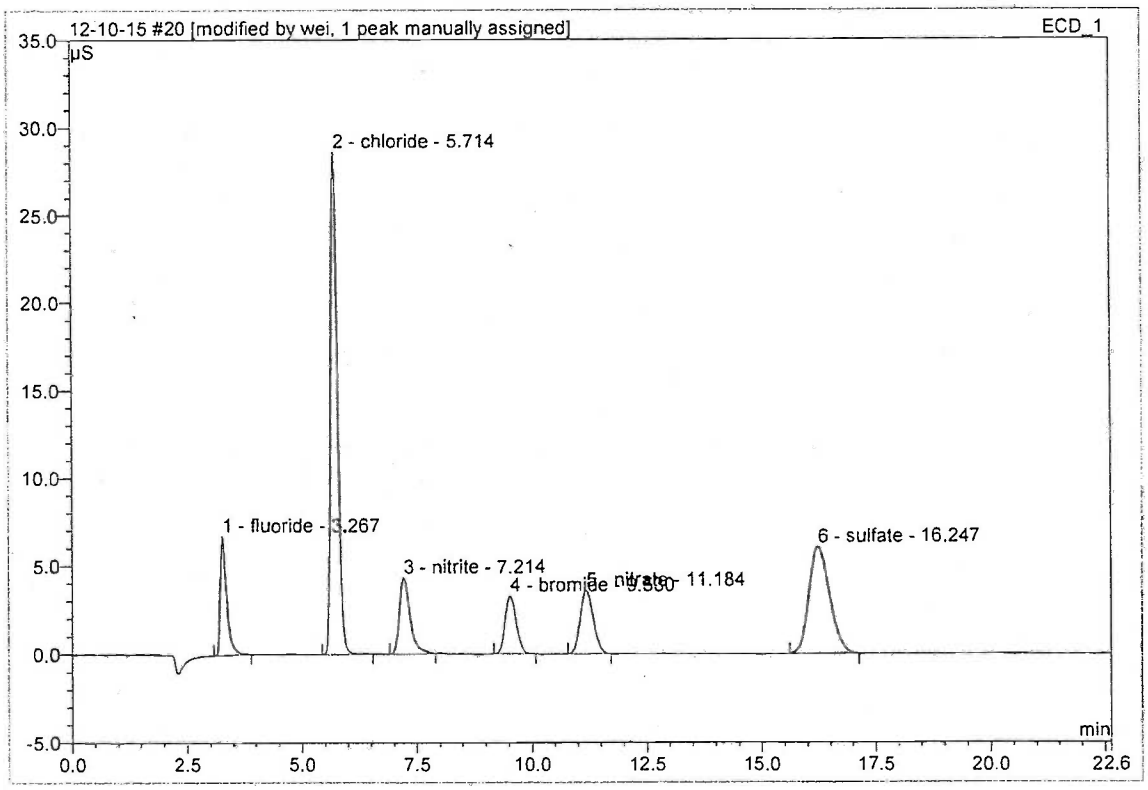


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

20 312058-004-1 ms1

ms1

Sample Name:	**312058-004-1 ms1**	*Injection Volume:*	**20.0**
Vial Number:	**610**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**10.0000**
Recording Time:	**10/15/2012 14:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.63**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.27	fluoride	6.734	1.094	8.81	37.823	BMB
2	5.71	chloride	28.621	4.901	39.46	191.613	BMB*
3	7.21	nitrite	4.311	1.165	9.38	100.604	BMB
4	9.53	bromide	3.277	0.906	7.30	100.682	BMB
5	11.18	nitrate	3.576	1.169	9.41	101.369	BMB
6	16.25	sulfate	6.041	3.186	25.64	180.234	BMB^
Total:			52.560	12.422	100.00	712.325	

MS1

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

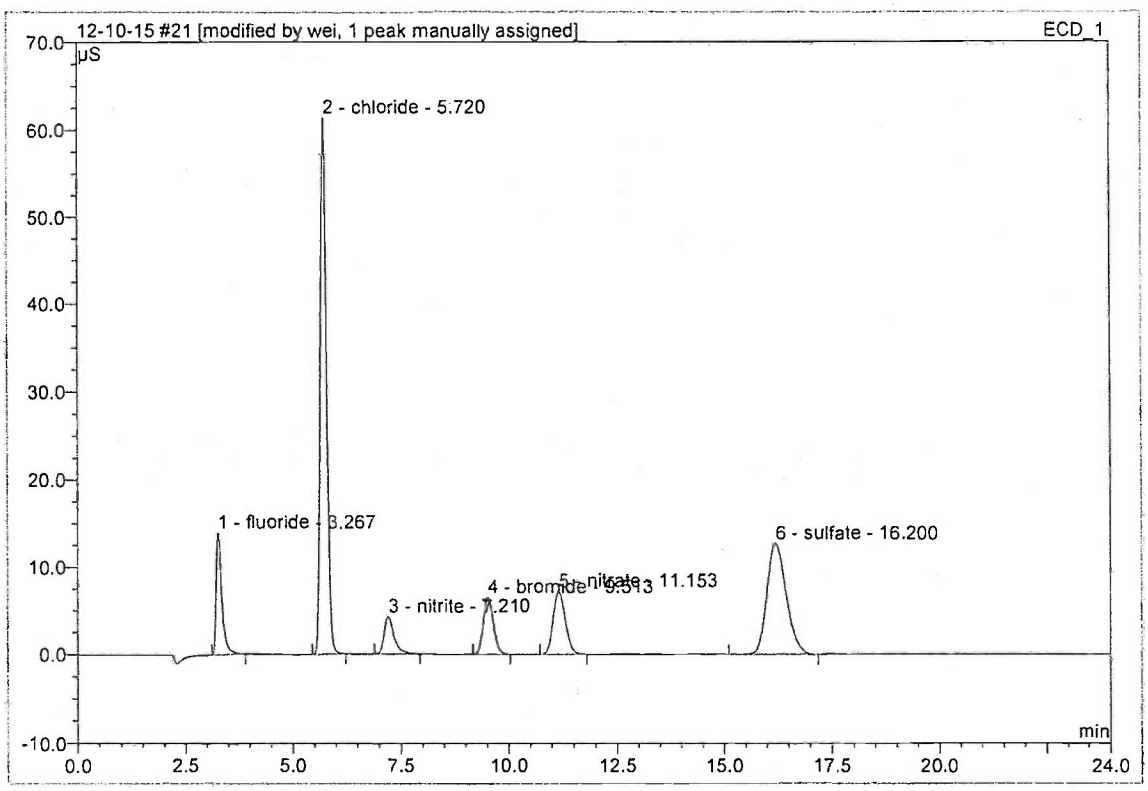
Perchlorate/Integration

ALAB : 00129

21 ccv2=lcs1

f=8 cl=40 no2=10 no3=20 so4=40

Sample Name:	**ccv2=lcs1**	*Injection Volume:*	**20.0**
Vial Number:	**611**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/15/2012 14:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**24.00**	*Sample Amount:*	**1.0000**

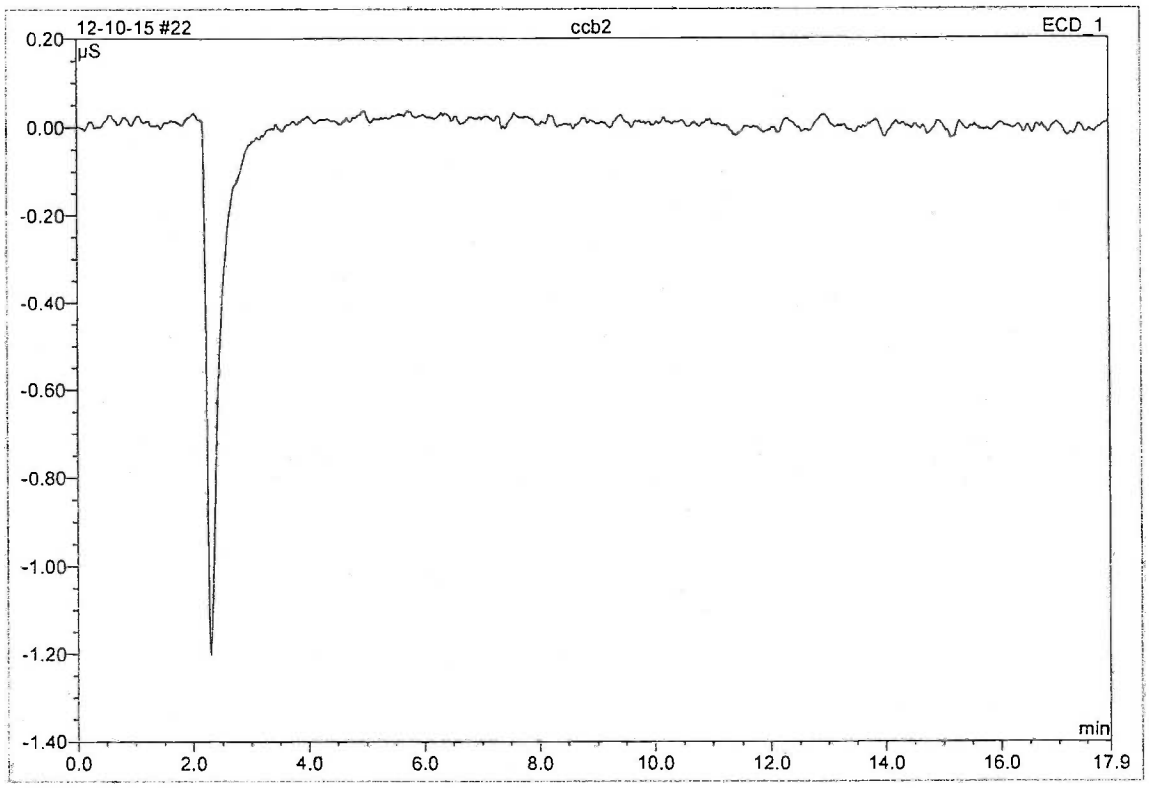


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.27	fluoride	13.952	2.189	9.00	7.457	BMB
2	5.72	chloride	61.312	10.260	42.18	38.454	BMB
3	7.21	nitrite	4.271	1.140	4.68	9.844	BMB
4	9.51	bromide	6.528	1.794	7.37	19.341	BMB
5	11.15	nitrate	7.197	2.329	9.57	19.464	BMB
6	16.20	sulfate	12.685	6.614	27.19	36.075	BMB*^
Total:			105.944	24.324	100.00	130.636	

LCS

22 ccb2

Sample Name:	**ccb2**	*Injection Volume:*	**20.0**
Vial Number:	**612**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/15/2012 15:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**17.91**	*Sample Amount:*	**1.0000**

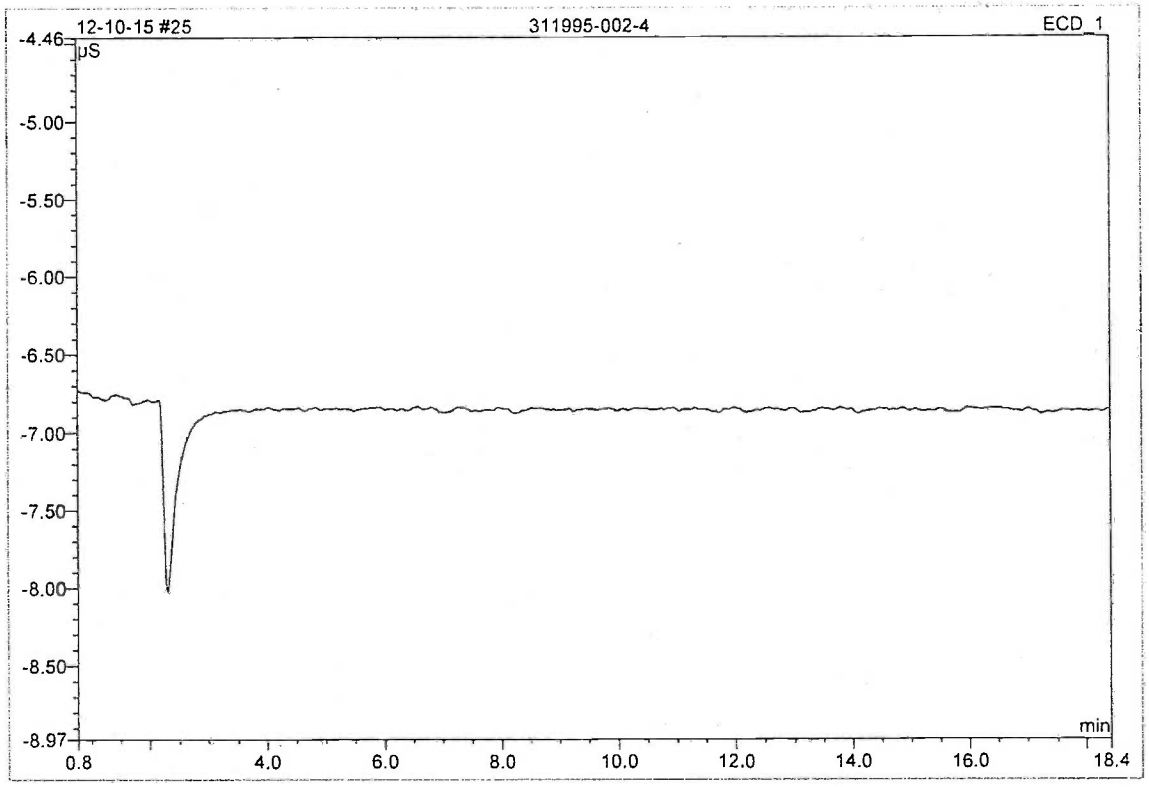


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

25 311995-002-4

arcadis pass holding-time

Sample Name:	**311995-002-4**	*Injection Volume:*	**20.0**
Vial Number:	**615**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/15/2012 16:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**18.40**	*Sample Amount:*	**1.0000**

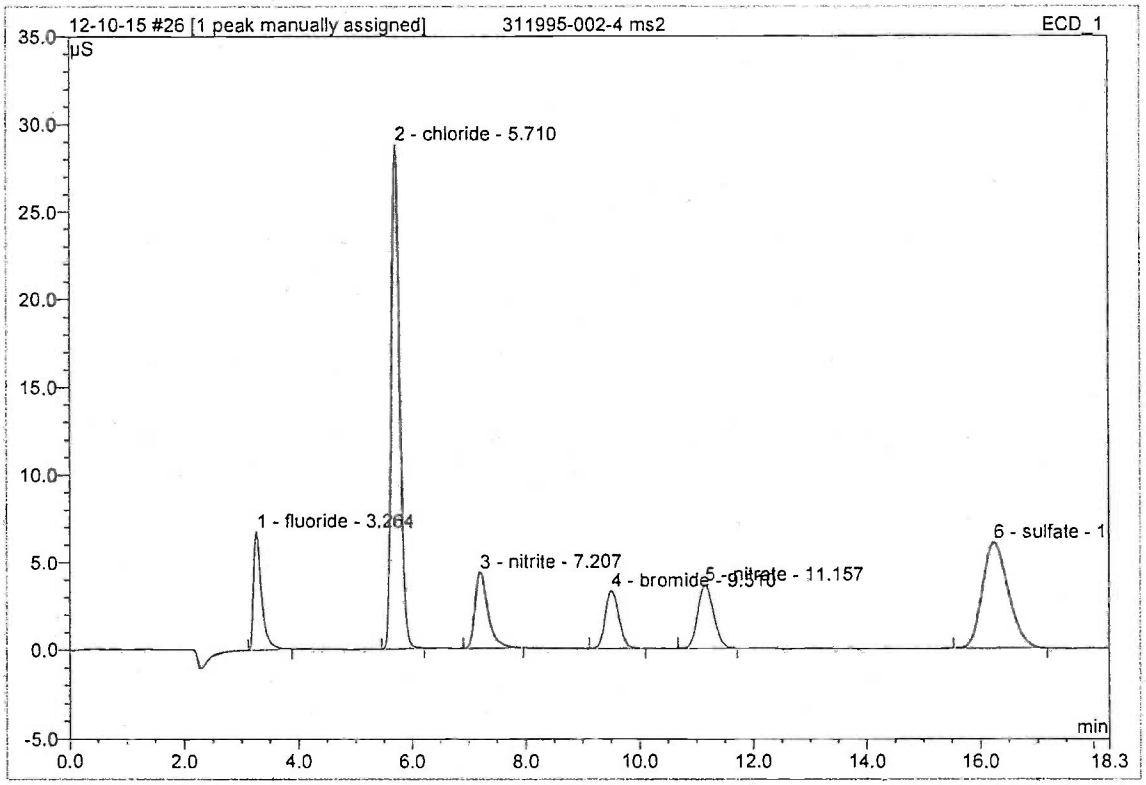


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

26 311995-002-4 ms2

ms2

Sample Name:	**311995-002-4 ms2**	*Injection Volume:*	**20.0**
Vial Number:	**616**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**10.0000**
Recording Time:	**10/15/2012 16:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**18.27**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.26	fluoride	6.746	1.086	8.77	37.540	BMB
2	5.71	chloride	28.768	4.871	39.33	190.485	BMB
3	7.21	nitrite	4.356	1.167	9.42	100.722	BMB
4	9.51	bromide	3.298	0.916	7.40	101.742	BMB
5	11.16	nitrate	3.617	1.169	9.44	101.369	BMB
6	16.25	sulfate	6.035	3.176	25.64	179.732	BMB^
Total:			52.821	12.386	100.00	711.590	

MS2

Perchlorate/Integration

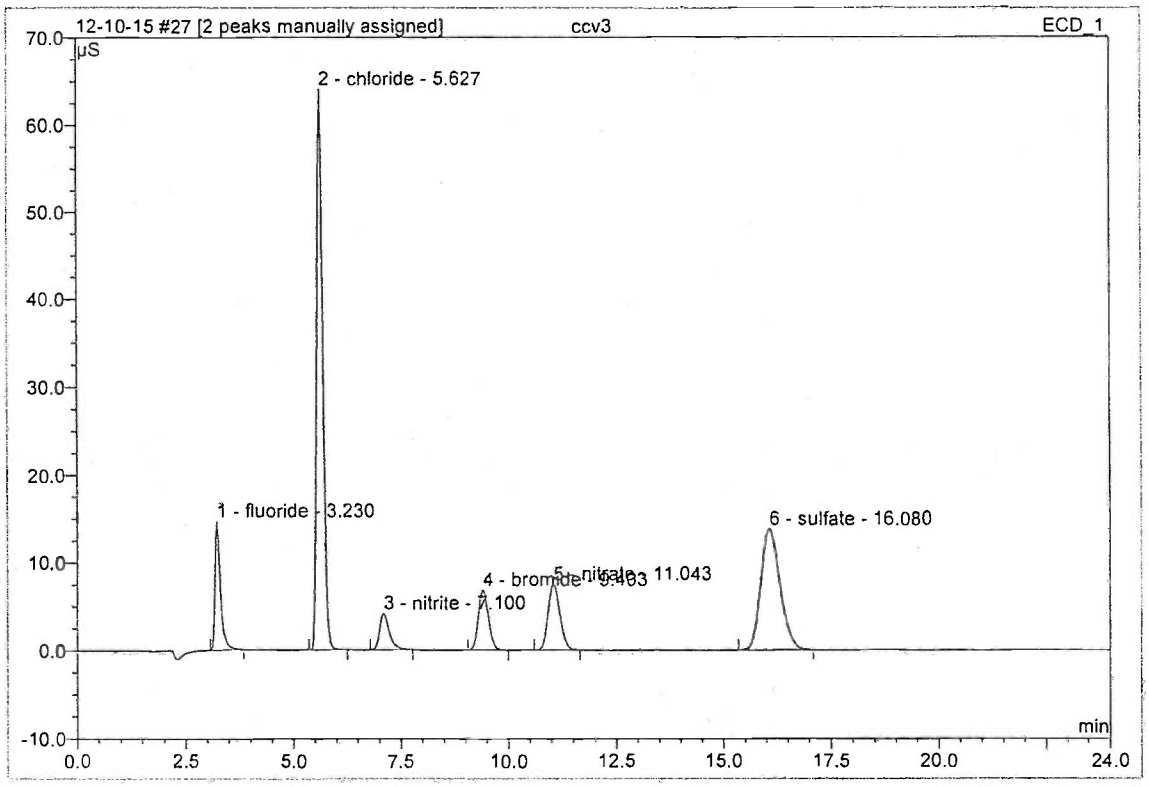
Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB:00132

27 ccv3

f=8 cl=40 no2=10 no3=20 so4=40

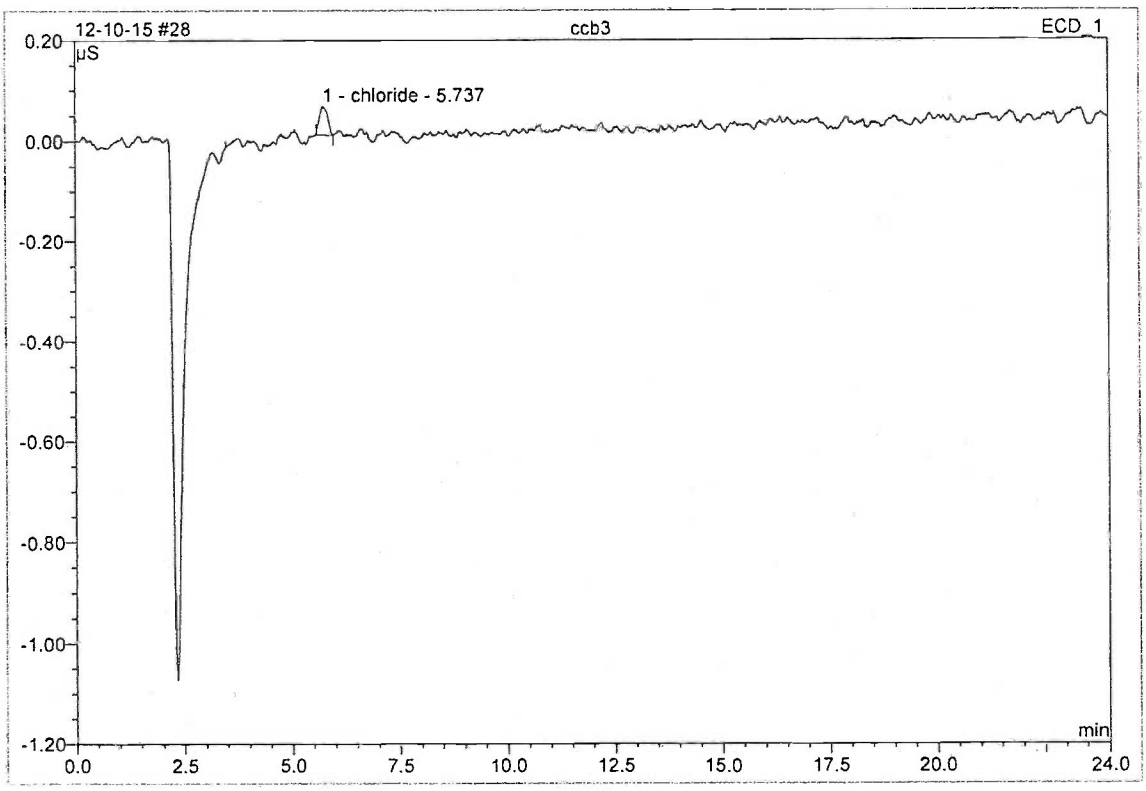
Sample Name:	**ccv3**	*Injection Volume:*	**20.0**
Vial Number:	**616**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/15/2012 17:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**24.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.23	fluoride	14.586	2.202	8.69	7.501	BMB
2	5.63	chloride	63.972	10.611	41.88	39.668	BMB
3	7.10	nitrite	4.146	1.097	4.33	9.489	BMB
4	9.40	bromide	6.832	1.865	7.36	20.063	BMB
5	11.04	nitrate	7.496	2.408	9.50	20.080	BMB^
6	16.08	sulfate	13.737	7.154	28.23	38.806	BMB^
Total:			110.769	25.336	100.00	135.607	

28 ccb3

Sample Name:	**ccb3**	*Injection Volume:*	**20.0**
Vial Number:	**616**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anion_program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**PERCHLORATE METHOD**	*Dilution Factor:*	**1.0000**
Recording Time:	**10/15/2012 17:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**24.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.74	chloride	0.057	0.013	100.00	0.052	BMB
Total:			0.057	0.013	100.00	0.052	

CONFIDENTIAL

SM4500-HB

pH

PH

SM 4500-H+B / EPA 150.1

Date	Lab ID #	PH	Temp.	Sigh.	Comments
10/12	B041012PH-1.68-3	1.68	23.1	RB	OAKlon-0065-12 2-2014
	B070612PH 4-5	4.0	23.5	RB	micro tech 304896 2-13-14
	B070612PH 7-5	7.01	23.4	RB	micro tech 304886 2-10
	B061412 PH 10-3	10.01	22.2	RB	micro tech 30486 11-20
	B052212PH 12.45-2	12.45	25.8	RB	OAKlon-006512-
	Di H2o	5.85	22.2	RB	
	311965-001	5.74	21.8	RB	1 9:15
	311965-002	6.30	22.2	RB	1 9:18
	311965-003	5.78	22.2	RB	1 9:21
	311940-007	5.17	21.0	RB	1 9:24
	311941-002	9.00	21.4	RB	1 9:27
	311938-001	7.88	22.4	RB	1 9:30
	311936-001	7.38	22.3	RB	1 9:33
	311935-001	7.25	22.0	RB	1 9:31
	311975-001	7.56	23.3	RB	9:3
	311975-002	7.32	22.3	RB	1 9:4
	311975-003	7.34	22.8	RB	1 9:45
	311975-004	7.35	23.0	RB	1 9:4
	311959-001	6.44	22.2	RB	3 9:5
	311976-001	6.87	21.9	RB	2 9:5
	311966-001	6.54	22.0		1 9:5
Duplicate	311966-001	6.53	21.9		1 10:
	Buffer	7.02	22.2		

ALAB : 00134

PH

SM 4500-H+B / EPA 150.1

Date	Lab ID #	PH	Temp.	Sigh.	Comments
10-15-12	B041012PH 1.68-5	1.68	21.9	RB	OAKlon 0065-12 2.2
	B070612PH 4-5	4.00	22.0	RB	microtech 304891C 2
	B070612PH 7-5	7.01	21.5	RB	microtech 304882 2
	B061412PH 10-3	10.02	21.7	RB	microtech 30486 11
	B052212PH 12.45-3	12.46	21.3	RB	OAKlon 006-12 2
	Di H2O	5.22	24.0	RB	
	312110-001	6.04	25.2	RB	4
	002	6.34	25.5	RB	2
	003	6.39	26.0	RB	1
	312112-001	6.26	26.2	RB	2
	312121-001	6.96	26.3	RB	1
	-002	6.73	22.5	RB	1
	312124-001	8.06	22.0	RB	1
	312080-008	6.55	25.9	RB	client requested test on 10-15-12
	Buffer	7.01	27.3	RB	
	312123-001	6.25	24.0	RB	1
	-002	6.50	23.4		1
	-003	6.17	23.5		1
Duplicate	312123-003	6.14	24.0		1
	311995-002	5.88	25.8		1
	312125-001	7.46	25.4		1
	312125-002	6.51	25.8		3
	Buffer	7.02	27.7	RB	

CONFIDENTIAL LMC-PET-00000522

PH

SM 4500-H+B / EPA 150.1

Date	Lab ID #	PH	Temp.	Sigh.	Comments	
10/12	311968-001	7.03	21.9	RB	2	10
	311968-002	7.15	21.8	RB	2	10
	311968-003	7.66	21.9	RB	2	10
	311969-001	7.13	22.7	RB	2	10
	311969-002	7.16	23.1	RB	2	10
	311969-003	7.26	22.7	RB	2	10
	311969-004	7.96	22.4	RB	2	10
	Buffer	7.01	23.2	RB		
	311995-010	7.24	21.4	RB	9	12
	RB ~~311~~ 312000-001	8.67	20.2	RB	2	12
	311997-001	7.20	20.5	RB	1	12
	311999-001	7.71	21.3	RB	1	1
	312003-001	7.53	23.0	RB	1	1
	312003-002	8.51	23.1	RB	1	1
	Buffer	7.00	24.7	RB		
Duplicate	312003-002	8.49	23.3	RB	1	1.3
	311998-001	9.72	22.0	RB	1	1
	311998-002	10.44	21.5	RB	3	1:4
	311992-001	7.79	21.8	RB	3	1:4
	311992-002	7.53	21.9	RB	4	1:5
	312013-001	7.15	24.1	RB	1	1:5
	RB ~~311~~ 311 312013-002	7.07	24.7	RB	1	1:5
	Buffer	7.01	25.2	RB		

ALAB : 00136

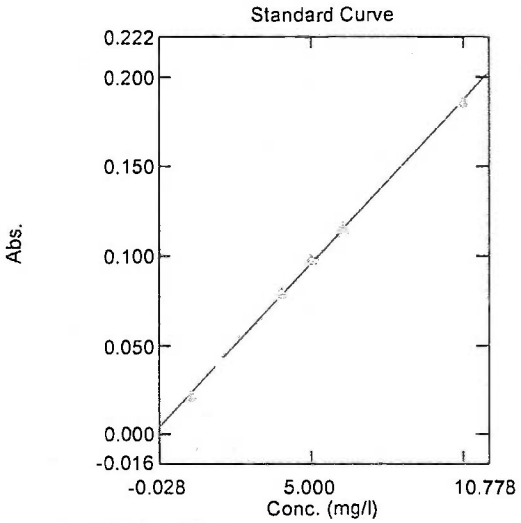
CONFIDENTIAL

SM 4500-Si C

REACTIVE SILICA

Sample Table

	Sample ID	Type	Ex	Conc	WL410.0	
1	MB	Unknown		-0.199	0.001	
2	ICV	Unknown		2.091	0.043	
3	LCS	Unknown		2.051	0.042	
4	312080 013	Unknown		6.765	0.129	10 MLS
5	080 013MS	Unknown		8.955	0.169	10 MLS
6	080 013MSD	Unknown		8.755	0.165	10 MLS
7	080 014	Unknown		6.252	0.119	10 MLS
8	080 008	Unknown		-0.971	-0.013	NEAT
9	312 002	Unknown		5.520	0.106	10 MLS3
10	311995 010	Unknown		5.913	0.113	10 MLS
11	995 002	Unknown		-0.971	-0.013	NEAT
12	CCV	Unknown		1.858	0.039	
13	CCB	Unknown		-0.465	-0.004	
14						



x = 54.53599 y - 0.25191
Correlation Coefficient r2 = 0.99906

Wavelengths
Wavelength Name: WL410.0
Wavelength: 410.00 nm

Calibration Curve
Column for Cal. Curve: WL410.0
Cal. Curve Type: Multi Point
Cal. Curve Unit: mg/l
Selected Wavelength: WL410.0
Calibration Equation: Conc = K1*(Abs) + K0
Zero Interception: Not Selected

Measurement Parameters(Standard)
Data Acquired by: Instrument
Delay sample read: Disabled

Software Information
Software Name: UVProbe
Version: 2.21
Mode: Normal Mode

Data Information
Filename: C:\Program Files\Shimadzu\UVProbe\data react sio2\sio2 2012\oct 2012 \121016SIO2.pho
Title:
Analyst: cmancini
Date/Time: 10/16/2012 12:42:38 PM
Comments:

ALAB : 00138

SILICA
SM4500Si-D&4500Si-C

Analyst CM

Date 10-16-12

Lab #	init. Vol.	DF	Reading	Final Result ppm	Comments
MB101612	50	1	-0.199	ND	
ICV 101612	50	1	2.091	2.09	ST = 2.00 105%
LCS 101612	50	1	2.051	2.05	↓ 103%
312080-013	10	5	6.765	33.8	ALCADIS #4
-013MS	10	5	8.955	44.8	ST 10.0 100%
013MSD	10	5	8.755	43.8	↓ 99.7%
312080-014	10	5	6.252	31.3	ALCADIS #5
-008	50	1	-0.971	ND	↓ #1
312094-002	10	5	5.520	27.6	#2
311995-010	10	5	5.913	29.6	
002	50	1	-0.971	ND	
CCV 101612	50	1	1.858	1.86	ST = 2.00 93%
CCB 101612	50	1	-0.465	ND	

Oxalic Acid OA090412 SiO2

HCL 1:1 HCL090412SiO2

Reducing Reagent none used

STD. ID # SS041912SiO2

LCS ID # SLCS 012012 SiO2

Ammonium Molybdate : AM090412 SiO2

5/12/2011 prep time: 1200

ALAB : 00139

CONFIDENTIAL LMC-PET-00000526

SM 5310B

TOC

ALAB : 00140

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130627

Created Date: 10/18/2012
Created By: quang
Matrix: Water

Test: 5310B Total Org
Method: SM 5310B
Instrument: TOC-BIO (group)
AnalysisDate: 10/15/2012
AnalysisEmployee:

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Init. Wt/Vol	Final Vol	Extraction Date	Time	Comments
0	LCS_1									
1	Method Blank_1									
2	MS_1		311995-010							
3	MSD_1		311995-010							
4	311995-002	Equipment Blank	311995-002							
5	311995-010	B1CW17	311995-010							
6	312023-001	South Drain	312023-001							
7	312038-001	#1 Digester Area Run-O	312038-001							
8	312038-002	#2 Front Parking Lot	312038-002							
9	312038-003	#3 Intersection Before	312038-003							
10	312038-004	#4 Storm Drain	312038-004							
11	312039-001	Bouy 5 Ft Below Surfac	312039-001							

InitialCalibSTD:
CalibCheckSTD:
InternalSTD:
SurrogateSTD:
LCSSTD:
MSSTD:

Solvent Manufacturer and Lot:
Sand Manufacturer and Lot:
Na2SO4 Manufacturer and Lot:
Surrogate Lot:
Spike Lot:
Prep By Signature:

Thursday, October 18, 2012

ALAB:00141

LMC-PET-00000528

CONFIDENTIAL

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 311995-10

Matrix: WATER

Prep. Date: 10/15/2012

Analysis Date: 10/15.

Lab ID#'s in Batch: LR 311995; 312023, 312039, 312038

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS

Reporting Units = mg/l

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	% Rec MS	% Rec MSD	RPD
TOC	5310 B/9060	0.5	10	10.8	10.9			

ND = "U" – Not Detected
RPD = Relative Percent Difference of Matrix Spike and Spike Duplicate
%REC – MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 80 - 120
RPD LIMITS = 20

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

PREP. BLK	LCS				
Value	Result	True	% Rec.	L. Limit	H. Limit
ND	9.8	10	98	80%	120%

Value = Preparation Blank Value; ND = Not Detected
LCS Result = Lab Control Sample Result
True = True Value of LCS
L. Limit / H. Limit = LCS Control Limits

ALAB : 00142

ASSOCIATED LABORATORIES
Total Organic Carbon Runlog

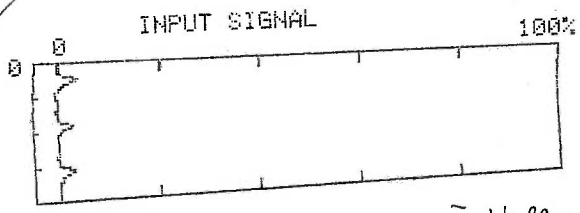
Method 9060 / 415.1 / 5310 B
Shimadzu TOC

TOC: 5000 (QP)

Date: 10/15/2012
HCl Lot: RB0424 Spectrum chem

Vial	Sample	Dilute	Vial	Sample	Dilute
1	Inst BL. 8:32	pH < 2	41	311998-2	pH<2
2	10 LCS Make 9/17/2012	8:43am	42	〃 -1	
3	10 QA 〃 10/10/12	8:50	43	311910-1 MS Dup lot 106-0087	
4	2.5 QA 〃 9/28/12	8:58	44	10 LCS	
5	BL	9:10	45	312041	
6	~~311990~~ (QP) 311910-1	pH<2	46	312023	
7	311910-2	〃	47	312024	
8	311995-10 9:46		48	BL.	
9	312039 Dup.		49	312042-1	
10	312078-1		50	〃 -2	
11	311991-6 Dup.		51	311991-3 MS lot 106-0087	
12	311991-14		52	312078-2	
13	311991-15 Dup.		53	〃 -3	
14	〃 -3 Dup		54	-4	
15	〃 -6 Dup		55	-5	
16	10 QA 11:36	〃	56	〃 -6	
17	311995-10 MS lot 106-0087 Exp 02/2013	11:43	57	10 QA	
18	311910-1 MS Lot 106-0087	〃 〃	58	312078-7	
19	312038-3	pH<2	59	312078-1 Dup	
20	BL	〃	60	10 LCS	
21	311910 Dup -1		61	BL	〃
22	311995 Dup-10 12:33		62	311991-3	pH<2
23	311991-11		63	312078-8	〃
24	〃 -13		64	〃 -9	
25	10 LCS 13:10	〃	65	312077	
26	311995-10 MS Dup lot 106-0087	13:18	66	312078-10	
27	10 QA. 13:29	pH<2	67	10 QA	
28	312038-1	〃	68	312049.	
29	〃 -2		69	311991-3 MS Dup lot 106-0087	
30	〃 -4		70	312076	
31	312041 Dup		71	2.5 QA Make 06/5/12 20:57	
32	BL.		72	10 LCS 21:05	
33	312077 Dup.		73	BL. 21:13	
34	311991-6		74	2.5 QA 21:23	
35	〃 -4		75	5.0 QA Make 8/7/12 21:39	
36	〃 -15		76	BL 21:51	〃
37	312039		77	0.5 QA Make 06/4/12 21:59	pH<2
38	312000		78		
39	10 QA	〃	1		
40	BL	pH<2	2		

ALAB: 00143



Inst Blk

SAMPLE# 1 NPOC VIAL: 1
[x 1, 80µl, C# 2, #WASH 4, SP 0min]

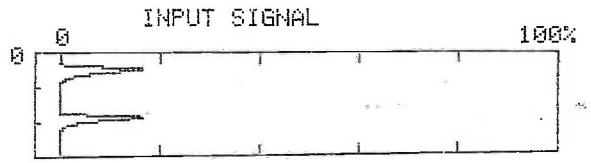
#	AREA	mg/l	C#	µl	RG
1-	2063	0.001			
2	1579	-0.06			
3	1576	-0.06			
MN	1577	-0.06			
SD	2	0.000			

ND<0.5 mg/l

QP ✓

CV 0.13 %
COR CONC DIL -0.06 [x 1.0]
COR CONC INJ -0.06 [x 1.0]

DATE 10(OCT)-15-2012 08:43



10 QA

SAMPLE# 3 NPOC VIAL: 3
[x 5, 50µl, C# 7, #WASH 4, SP 3min]

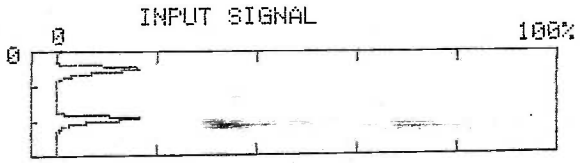
#	AREA	mg/l	C#	µl	RG
1	7353	9.640			
2	7380	9.679			
MN	7366	9.660			
SD	19	0.027			

9.7 mg/l

QP ✓

CV 0.25 %
COR CONC DIL 9.660 [x 1.0]
COR CONC INJ 9.660 [x 1.0]

DATE 10(OCT)-15-2012 08:58



10 LCS

SAMPLE# 2 NPOC VIAL: 2
[x 5, 50µl, C# 7, #WASH 4, SP 3min]

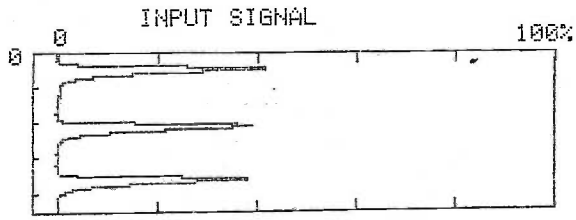
#	AREA	mg/l	C#	µl	RG
1	7472	9.811			
2	7488	9.834			
MN	7480	9.823			
SD	11	0.016			

9.8 mg/l

QP ✓

CV 0.15 %
COR CONC DIL 9.823 [x 1.0]
COR CONC INJ 9.823 [x 1.0]

DATE 10(OCT)-15-2012 08:50



2.5 QA

SAMPLE# 4 NPOC VIAL: 4
[x 1, 80µl, C# 2, #WASH 4, SP 3min]

#	AREA	mg/l	C#	µl	RG
1-	19485	2.769			
2	18341	2.594			
3	17602	2.477			
MN	17971	2.536			
SD	522	0.083			

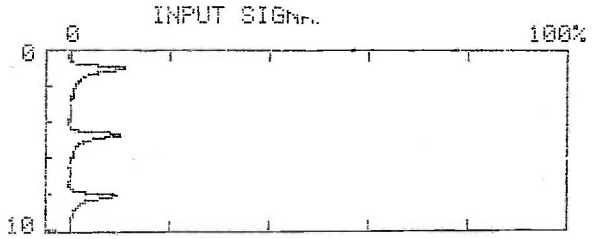
2.54 mg/l

QP ✓

CV 2.90 %
COR CONC DIL 2.536 [x 1.0]
COR CONC INJ 2.536 [x 1.0]

DATE 10(OCT)-15-2012 09:10

ALAB : 00144



TIME [min]

311995-10

SAMPLE# 8 NPOC VIAL: 8
[x 1, 80µl, C# 2, #WASH 4, SP 3min]

#	AREA	mg/l	C#	µl	RG
1-	6753	0.605			
2	5873	0.492			
3	5567	0.453			
MN	5720	0.472			
SD	216	0.027			
CV	3.78 %				

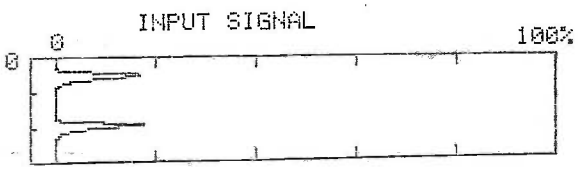
0.5mg/l

avg

COR CONC DIL 0.472 [x 1.0]
COR CONC INJ 0.472 [x 1.0]

DATE 10(OCT)-15-2012 09:59

ALAB:00145



TIME [min]

10 QA

SAMPLE# 16 NPOC VIAL: 16
[x 5, 50µl, C# 7, #WASH 4, SP 3min]

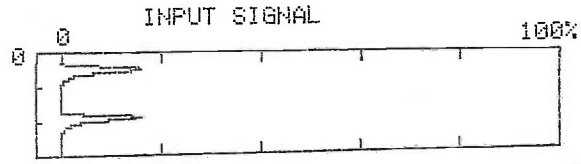
#	AREA	mg/l	C#	µl	RG
1	7753	10.21			
2	7840	10.33			
MN	7796	10.27			
SD	61	0.088			
CV	0.78 %				

10.3 mg/L

QP

COR CONC DIL 10.27 [x 1.0]
COR CONC INJ 10.27 [x 1.0]

DATE 10(OCT)-15-2012 11:43



TIME [min]

10 LCS

SAMPLE# 25 NPOC VIAL: 25
[x 5, 50µl, C# 7, #WASH 4, SP 3min]

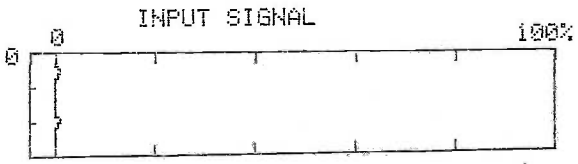
#	AREA	mg/l	C#	µl	RG
1	7188	9.404			
2	7353	9.640			
MN	7270	9.522			
SD	116	0.167			
CV	1.60 %				

9.5 mg/L

QP

COR CONC DIL 9.522 [x 1.0]
COR CONC INJ 9.522 [x 1.0]

DATE 10(OCT)-15-2012 13:18



TIME [min]

Br

SAMPLE# 20 NPOC VIAL: 20
[x30, 240µl, C# 15, #WASH 4, SP 0min]

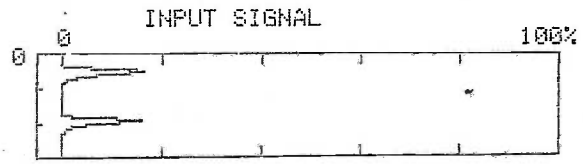
#	AREA	mg/l	C#	µl	RG
1	597	-0.80			
2	784	-0.21			
MN	690	-0.50			
SD	132	0.415			
CV	19.1 %				

ND<0.5 mg/L

QP

COR CONC DIL -0.50 [x 1.0]
COR CONC INJ -0.40 [x0.79]

DATE 10(OCT)-15-2012 12:24



TIME [min]

10 QA

SAMPLE# 27 NPOC VIAL: 27
[x 5, 50µl, C# 7, #WASH 4, SP 3min]

#	AREA	mg/l	C#	µl	RG
1	7222	9.453			
2	7258	9.504			
MN	7240	9.478			
SD	25	0.036			
CV	0.35 %				

9.5 mg/L

QP

COR CONC DIL 9.478 [x 1.0]
COR CONC INJ 9.478 [x 1.0]

DATE 10(OCT)-15-2012 13:36

ALAB : 00146