Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX042818\

Quantitation Report (Not Reviewed)

Data File : VX001221.D
Acq On : 28 Apr 2018 18:30
Operator : JC/MD
Sample : J2547-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : WP022MW359-180423

Quant Time: Apr 30 01:33:58 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X042618W.M
Quant Title : SW846 8260
QLast Update : Fri Apr 27 01:51:42 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.67	168	171999	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.87	114	234918	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.12	117	214782	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	129598	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.08	65	128700	48.27	ug/l		0.00
Spiked Amount 50.000			Recovery = 96.54%				
35) Dibromofluoromethane	5.51	113	101919	52.42	ug/l		0.00
Spiked Amount 50.000			Recovery = 104.84%				
50) Toluene-d8	8.72	98	390629	53.23	ug/l		0.00
Spiked Amount 50.000			Recovery = 106.46%				
62) 4-Bromofluorobenzene	11.14	95	137334	47.91	ug/l		0.00
Spiked Amount 50.000			Recovery = 95.82%				
Target Compounds							Qvalue
3) Chloromethane	1.32	50	791	0.42	ug/l		89
4) Vinyl Chloride	1.40	62	77499	38.67	ug/l		98
5) Bromomethane	1.62	94	100	Below Cal		#	3
6) Chloroethane	1.73	64	843	0.67	ug/l		89
10) Methyl Iodide	2.52	142	3111	8.67	ug/l		93
11) Tert butyl alcohol	3.08	59	2440	4.64	ug/l	#	88
12) 1,1-Dichloroethene	2.38	96	412	0.24	ug/l	#	58
13) Acrolein	2.30	56	79	0.40	ug/l	#	14
16) Acetone	2.45	43	6527	5.95	ug/l		93
18) Methyl Acetate	2.79	43	705	0.26	ug/l	#	73
21) trans-1,2-Dichloroethene	3.17	96	3185	1.66	ug/l		97
24) 1,1-Dichloroethane	3.70	63	8765	2.63	ug/l		98
25) 2-Butanone	4.72	43	1133	0.69	ug/l		99
27) cis-1,2-Dichloroethene	4.61	96	111597	53.01	ug/l		89
36) 1,1-Dichloropropene	5.67	75	10914	4.22	ug/l	#	48
38) Carbon Tetrachloride	5.67	117	14476	5.45	ug/l	#	15
40) Benzene	6.15	78	34782	4.64	ug/l		100
42) 1,2-Dichloroethane	6.20	62	3213	1.06	ug/l		93
44) Trichloroethene	7.21	130	521	0.23	ug/l		96
49) 1,4-Dioxane	7.77	88	154	2.97	ug/l	#	56
52) Toluene	8.79	92	3827	0.78	ug/l		98
54) cis-1,3-Dichloropropene	8.79	75	49	3.20	ug/l	#	1
59) 2-Hexanone	9.32	43	3232	1.29	ug/l		73
65) Chlorobenzene	10.15	112	801645	142.46	ug/l		99
76) 1,2,3-Trichloropropane	11.14	75	70801	26.83	ug/l	#	39
79) 2-Chlorotoluene	11.43	91	1179	0.20	ug/l		83
81) trans-1,4-Dichloro-2-buten	11.14	75	70801	81.66	ug/l	#	6
87) 1,3-Dichlorobenzene	12.03	146	14131	3.14	ug/l		95
88) 1,4-Dichlorobenzene	12.10	146	31901	6.81	ug/l		95
90) Hexachloroethane	12.76	117	346	3.63	ug/l	#	1
91) 1,2-Dichlorobenzene	12.40	146	30963	6.81	ug/l		99
92) 1,2-Dibromo-3-Chloropropan	13.18	75	187	0.30	ug/l	#	1

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX042818\

Quantitation Report (Not Reviewed)

Data File : VX001221.D
Acq On : 28 Apr 2018 18:30
Operator : JC/MD
Sample : J2547-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Quant Time: Apr 30 01:33:58 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X042618W.M
Quant Title : SW846 8260
QLast Update : Fri Apr 27 01:51:42 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

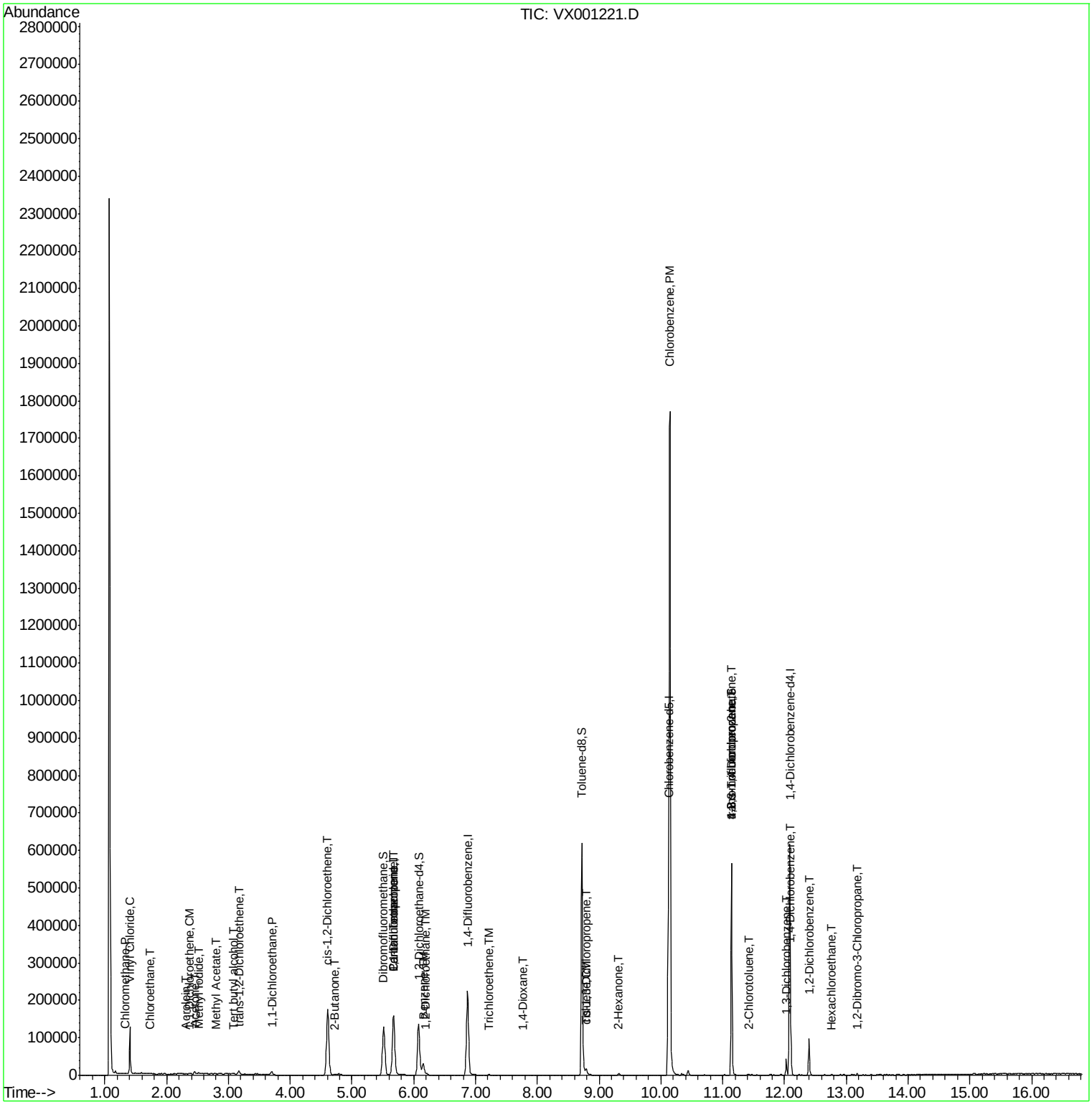
Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX042818\

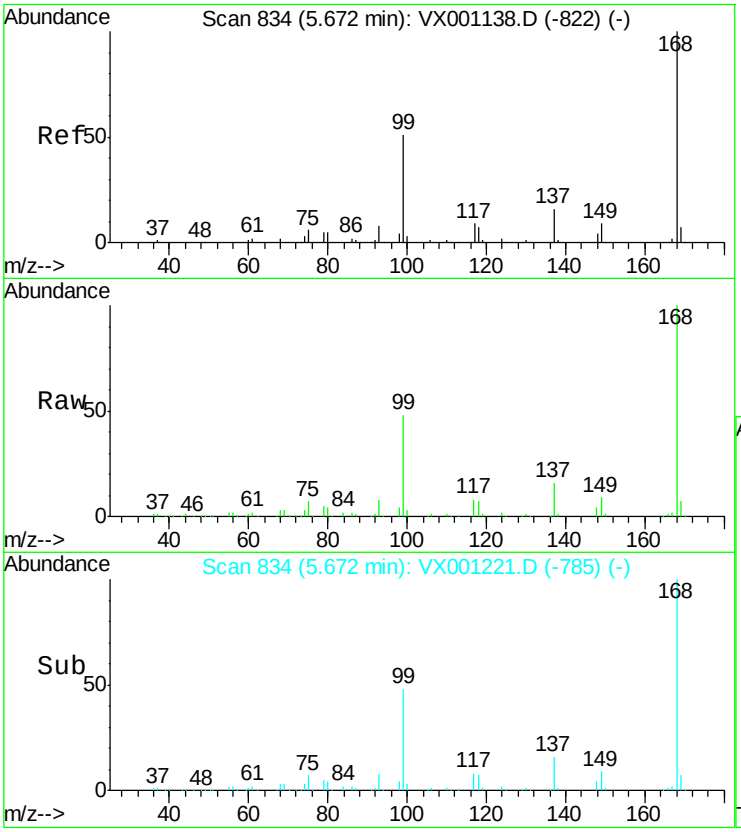
Quantitation Report (Not Reviewed)

Data File : VX001221.D
Acq On : 28 Apr 2018 18:30
Operator : JC/MD
Sample : J2547-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Quant Time: Apr 30 01:33:58 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X042618W.M
Quant Title : SW846 8260
QLast Update : Fri Apr 27 01:51:42 2018
Response via : Initial Calibration



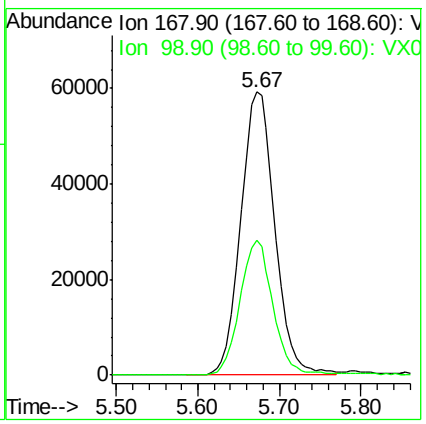


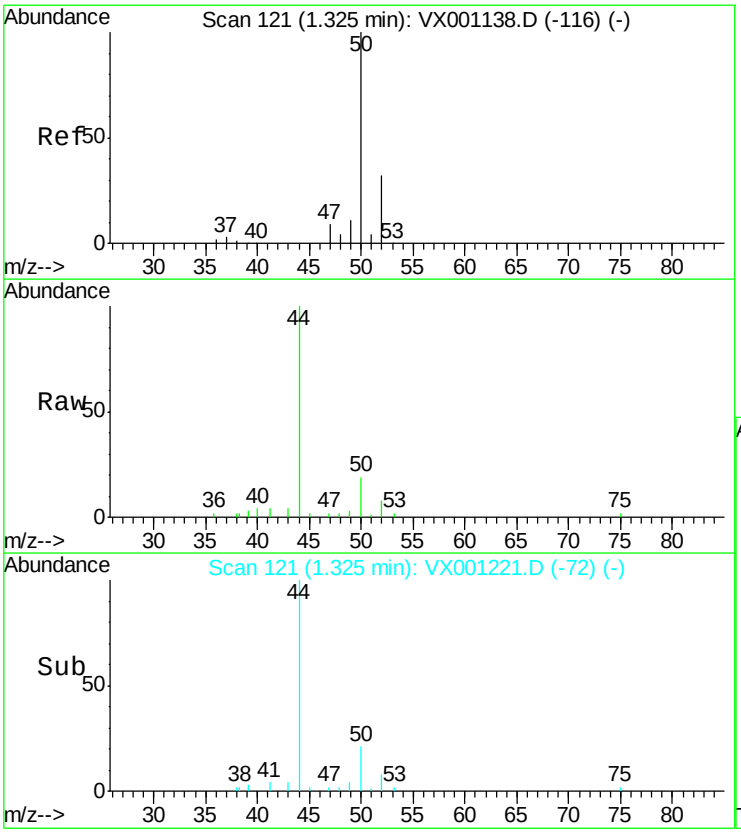
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion:168 Resp: 171999

Ion	Ratio	Lower	Upper
168	100		
99	47.8	40.6	60.8

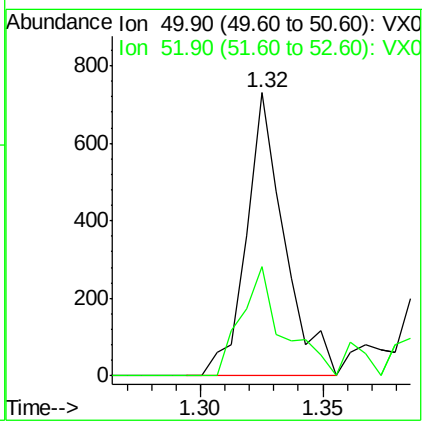


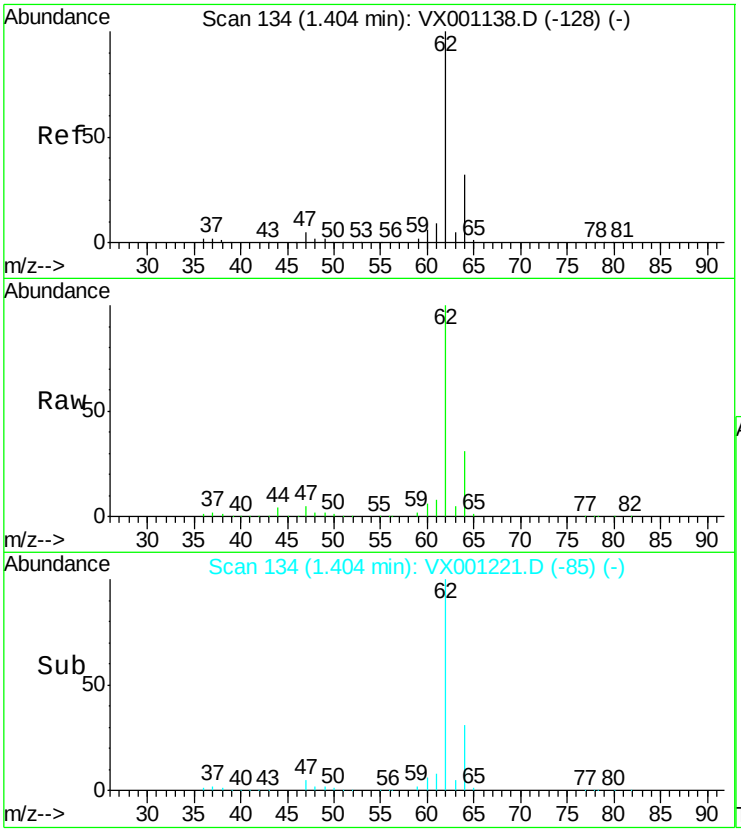


#3
Chloromethane
Concen: 0.42 ug/l
RT: 1.32 min Scan# 121
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 50 Resp: 791

Ion	Ratio	Lower	Upper
50	100		
52	38.8	25.9	38.9



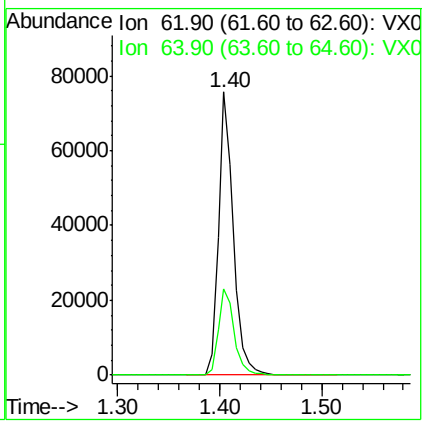


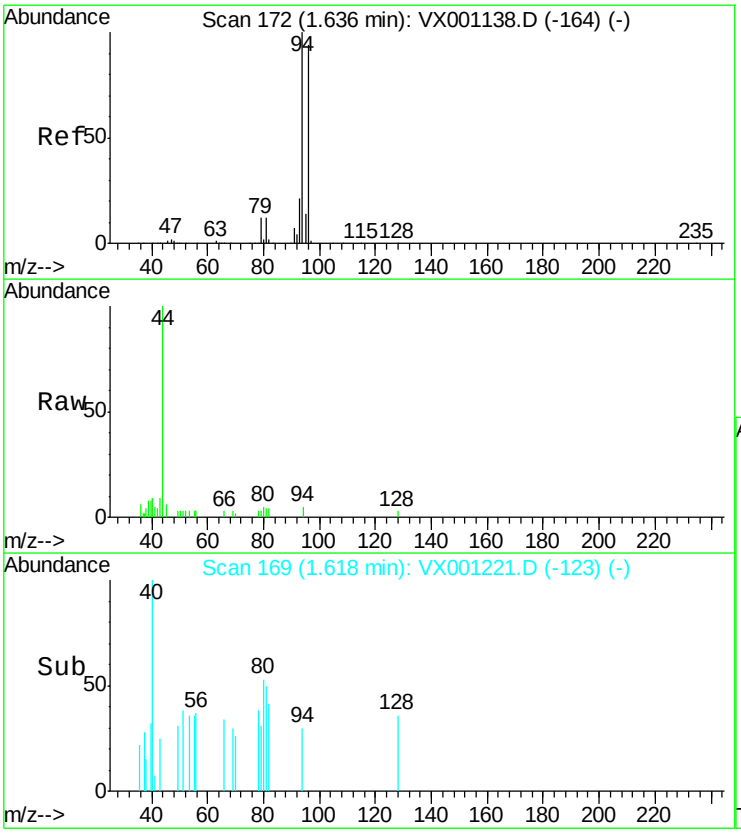
#4
Vinyl Chloride
Concen: 38.67 ug/l
RT: 1.40 min Scan# 134
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 62 Resp: 77499

Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.6	38.4

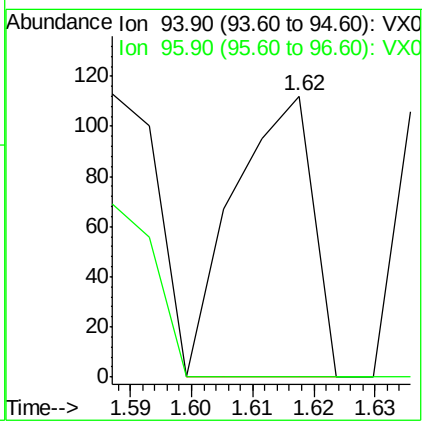


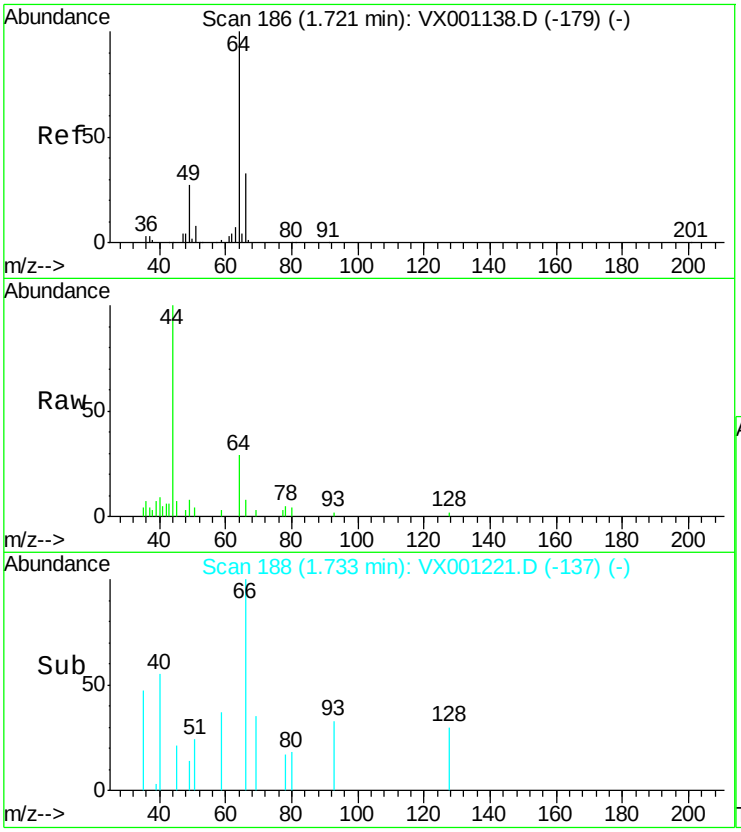


#5
Bromomethane
Concen: Below Cal
RT: 1.62 min Scan# 169
Delta R.T. -0.02 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 94 Resp: 100

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.3	112.9#



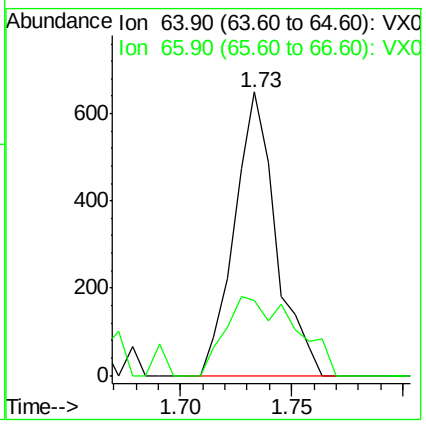


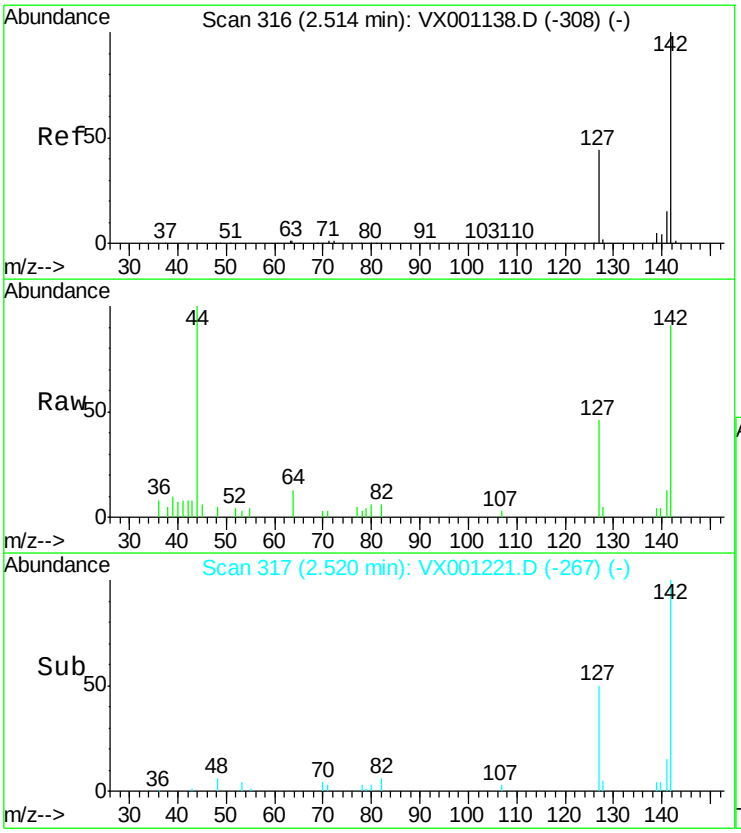
#6
Chloroethane
Concen: 0.67 ug/l
RT: 1.73 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 64 Resp: 843

Ion	Ratio	Lower	Upper
64	100		
66	26.5	26.1	39.1

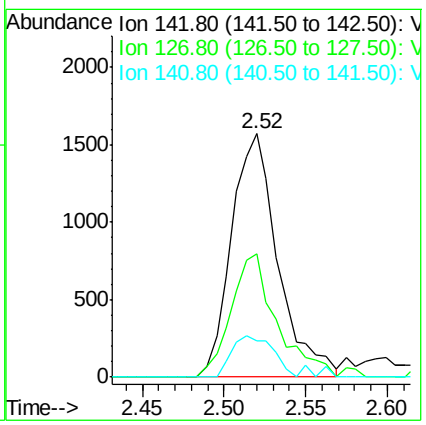


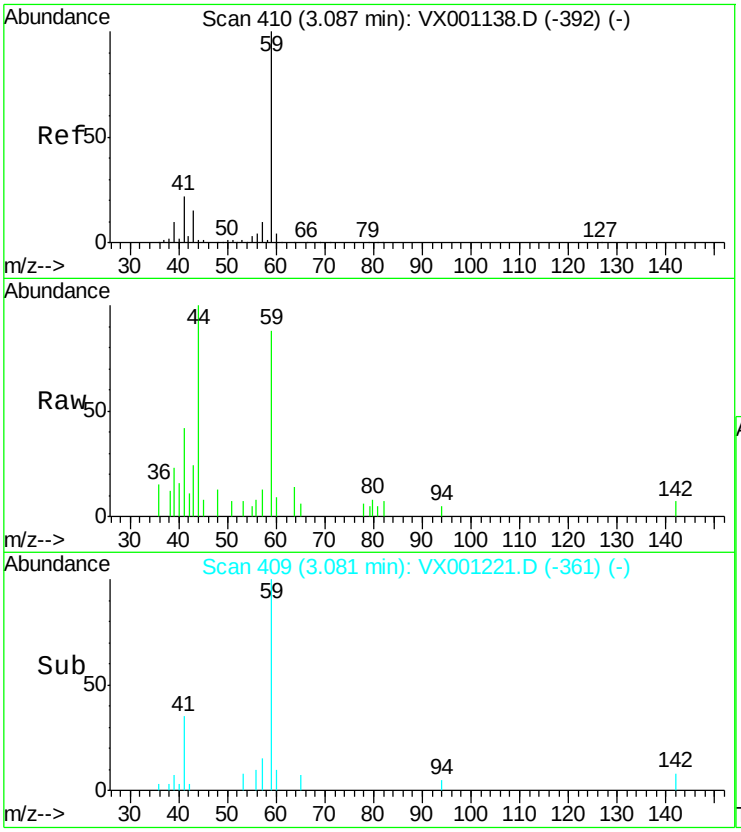


#10
Methyl Iodide
Concen: 8.67 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion:142 Resp: 3111

Ion	Ratio	Lower	Upper
142	100		
127	49.5	34.7	52.1
141	15.1	11.6	17.4



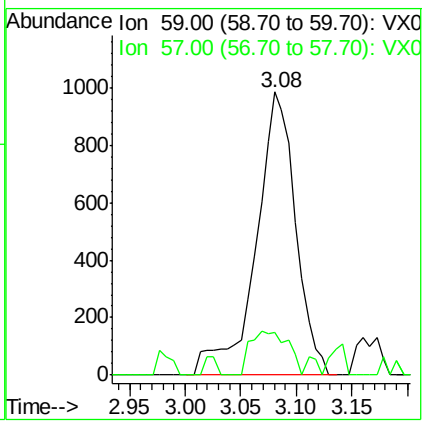


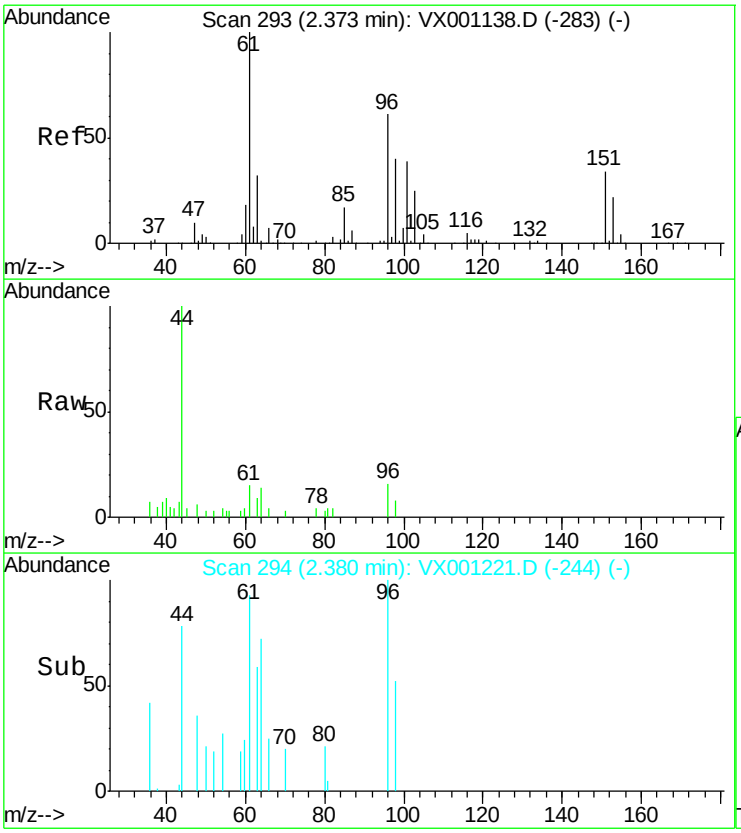
#11
Tert butyl alcohol
Concen: 4.64 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.01 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 59 Resp: 2440

Ion	Ratio	Lower	Upper
59	100		
57	14.9	8.2	12.4#

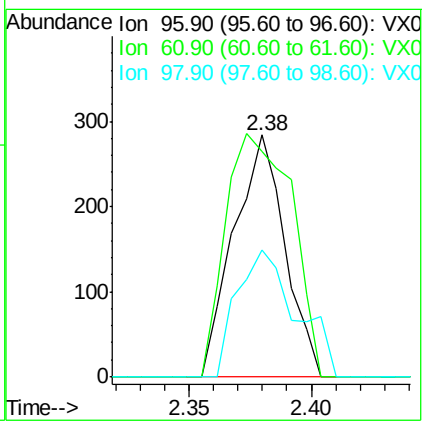


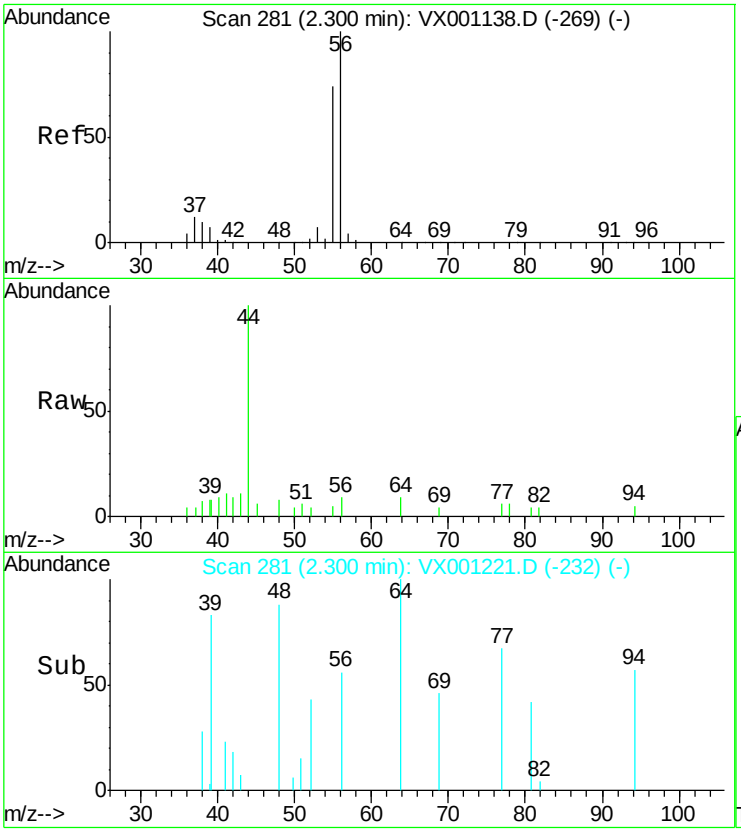


#12
1,1-Dichloroethene
Concen: 0.24 ug/l
RT: 2.38 min Scan# 294
Delta R.T. 0.01 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 96 Resp: 412

Ion	Ratio	Lower	Upper
96	100		
61	93.3	130.2	195.4#
98	52.5	51.5	77.3



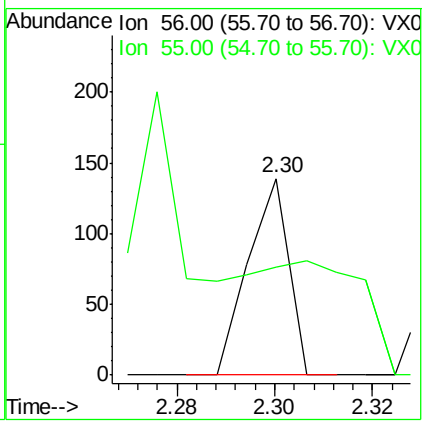


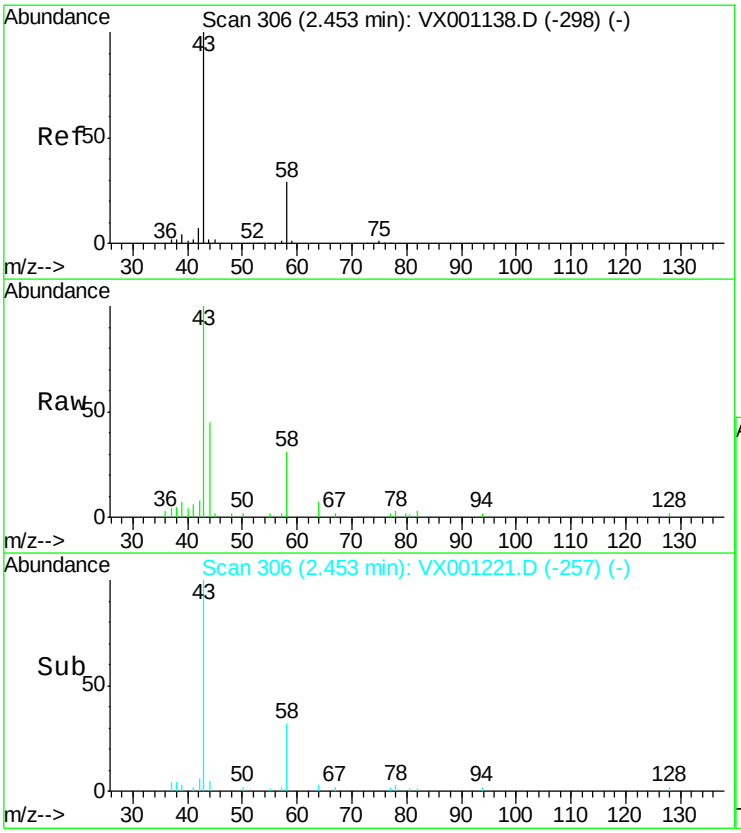
#13
Acrolein
Concen: 0.40 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 56 Resp: 79

Ion	Ratio	Lower	Upper
56	100		
55	0.0	57.2	85.8#

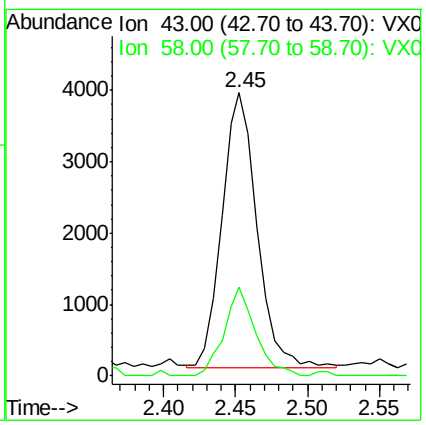


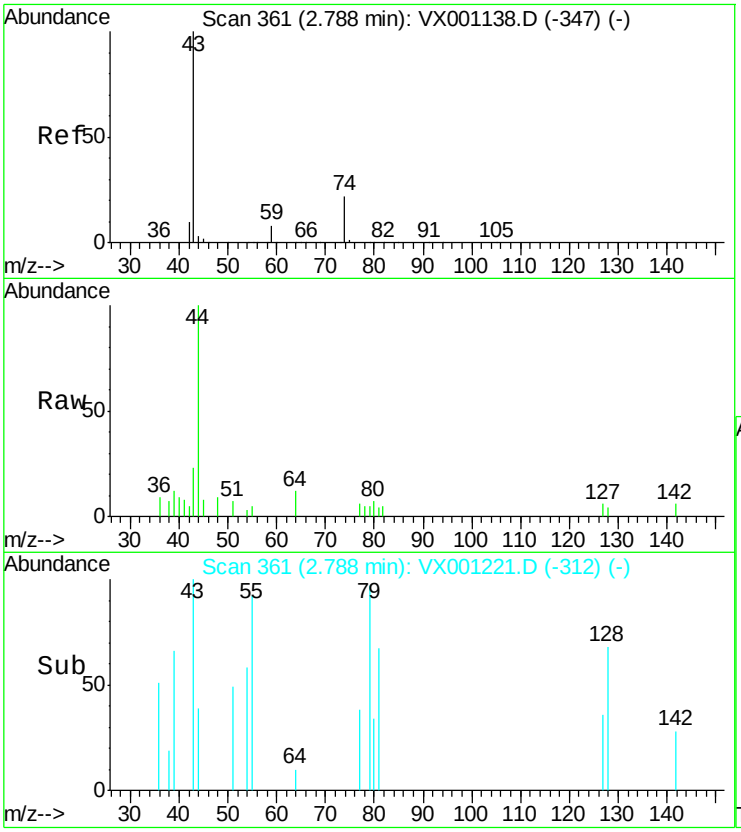


#16
Acetone
Concen: 5.95 ug/l
RT: 2.45 min Scan# 306
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 43 Resp: 6527

Ion	Ratio	Lower	Upper
43	100		
58	32.4	23.0	34.6



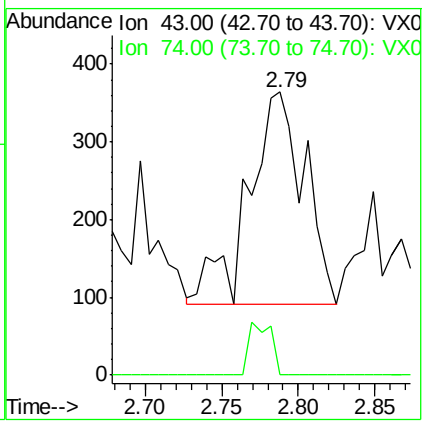


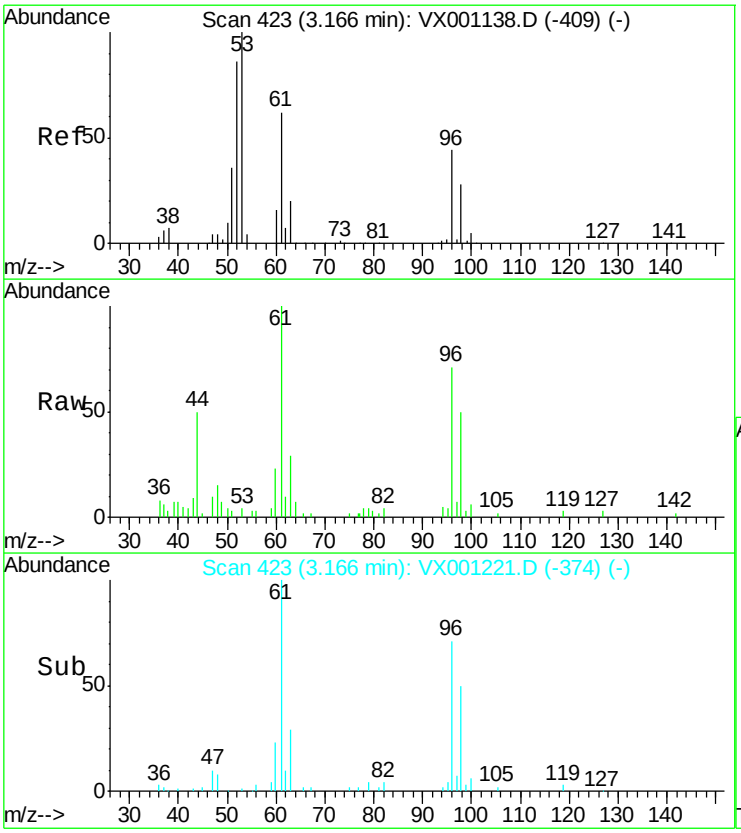
#18
Methyl Acetate
Concen: 0.26 ug/l
RT: 2.79 min Scan# 361
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 43 Resp: 705

Ion	Ratio	Lower	Upper
43	100		
74	9.6	18.1	27.1#

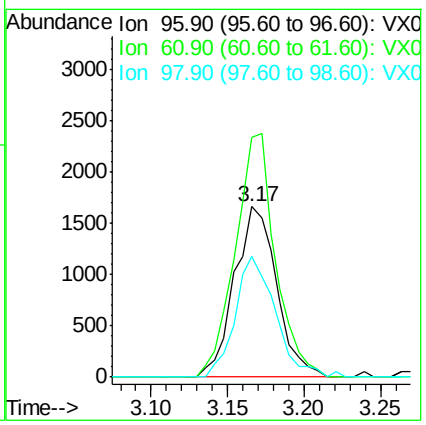


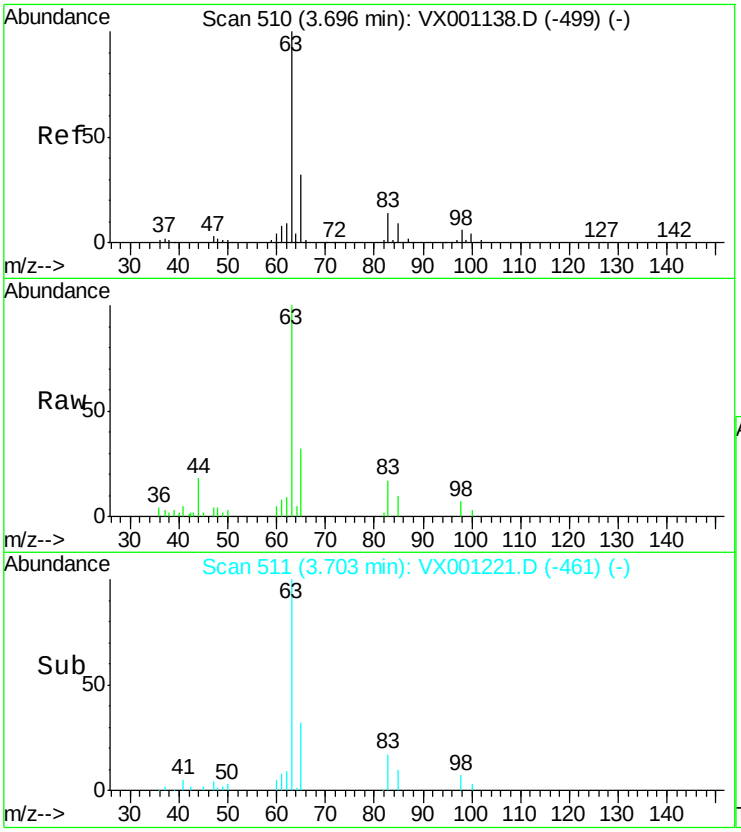


#21
trans-1,2-Dichloroethene
Concen: 1.66 ug/l
RT: 3.17 min Scan# 423
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 96 Resp: 3185

Ion	Ratio	Lower	Upper
96	100		
61	140.8	111.9	167.9
98	71.0	51.1	76.7



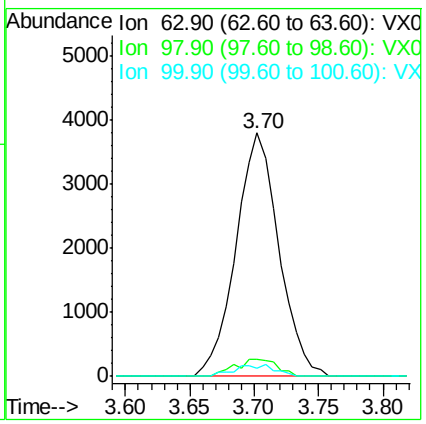


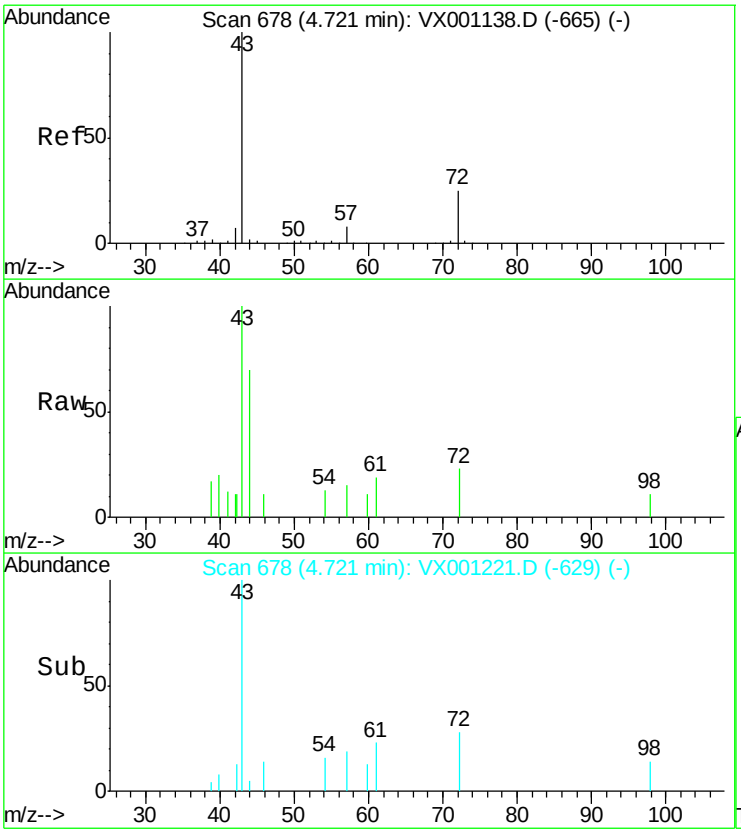
#24
1,1-Dichloroethane
Concen: 2.63 ug/l
RT: 3.70 min Scan# 511
Delta R.T. 0.01 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 63 Resp: 8765

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.1	9.4
100	3.5	2.1	6.5

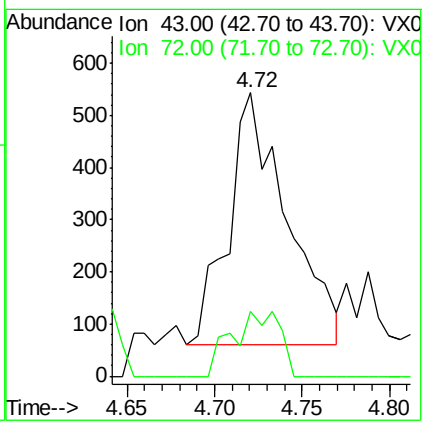


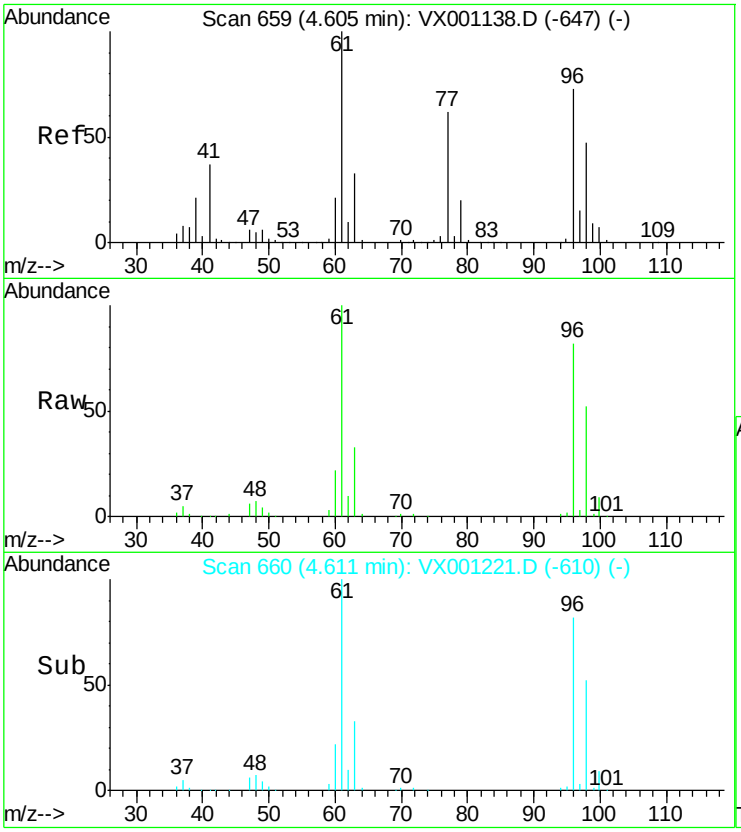


#25
2-Butanone
Concen: 0.69 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 43 Resp: 1133

Ion	Ratio	Lower	Upper
43	100		
72	25.4	20.0	30.0



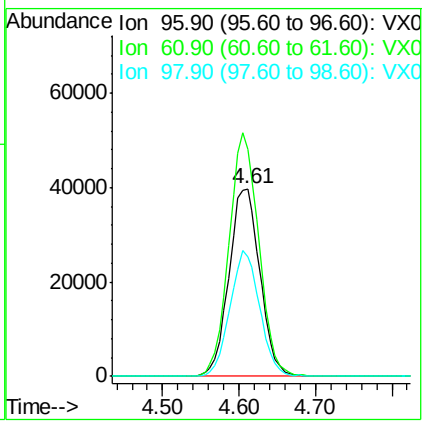


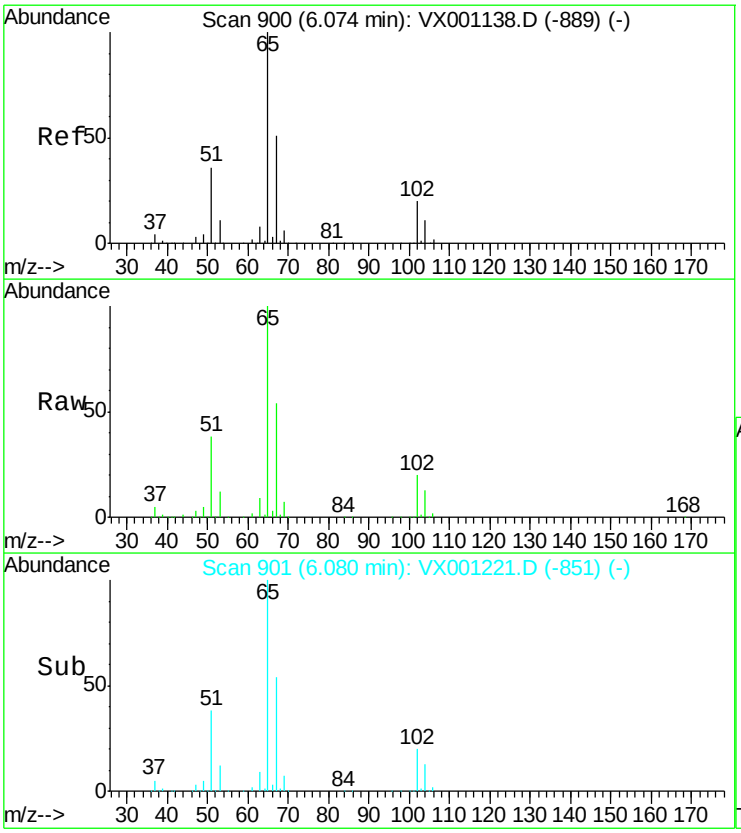
#27
cis-1,2-Dichloroethene
Concen: 53.01 ug/l
RT: 4.61 min Scan# 660
Delta R.T. 0.01 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 96 Resp: 111597

Ion	Ratio	Lower	Upper
96	100		
61	124.4	0.0	289.0
98	64.1	0.0	128.2

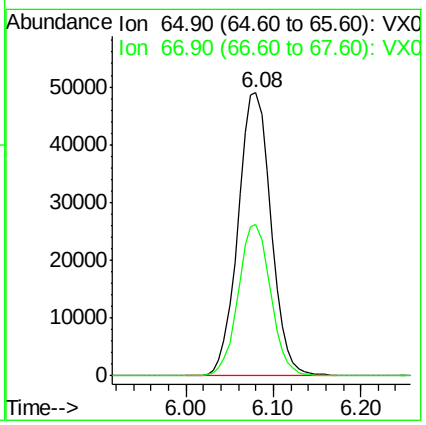


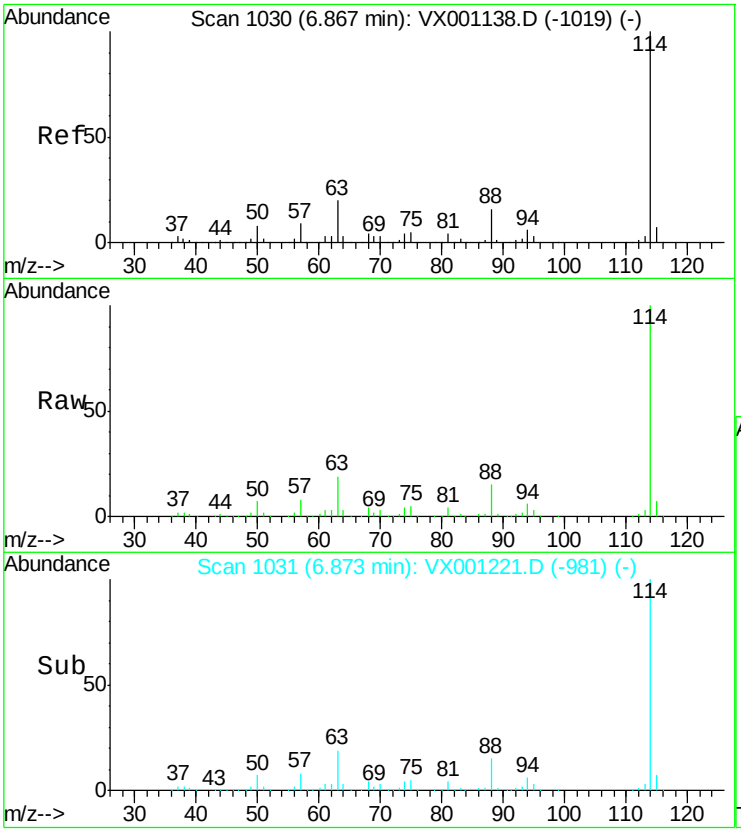


#33
1,2-Dichloroethane-d4
Concen: 48.27 ug/l
RT: 6.08 min Scan# 901
Delta R.T. 0.01 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 65 Resp: 128700

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	102.2



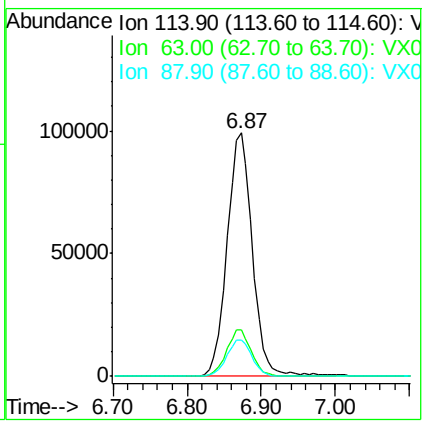


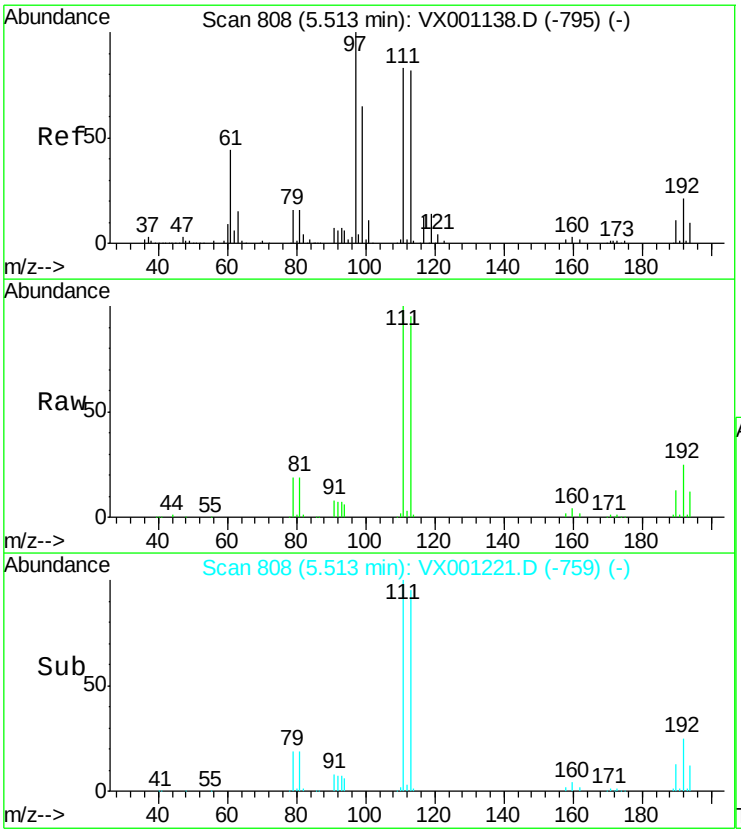
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion:114 Resp: 234918

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	40.4
88	15.2	0.0	31.8

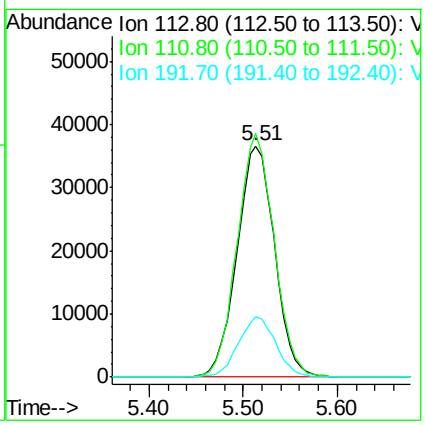


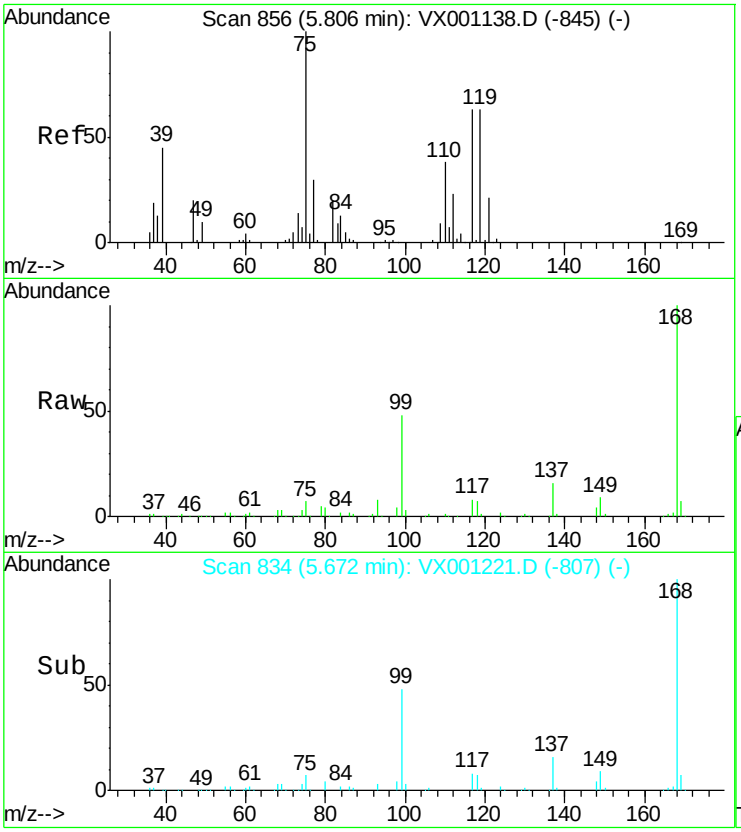


#35
Dibromofluoromethane
Concen: 52.42 ug/l
RT: 5.51 min Scan# 808
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion:113 Resp: 101919

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.2	123.4
192	25.9	20.6	30.8



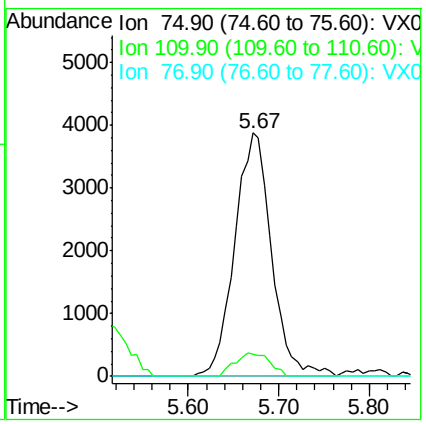


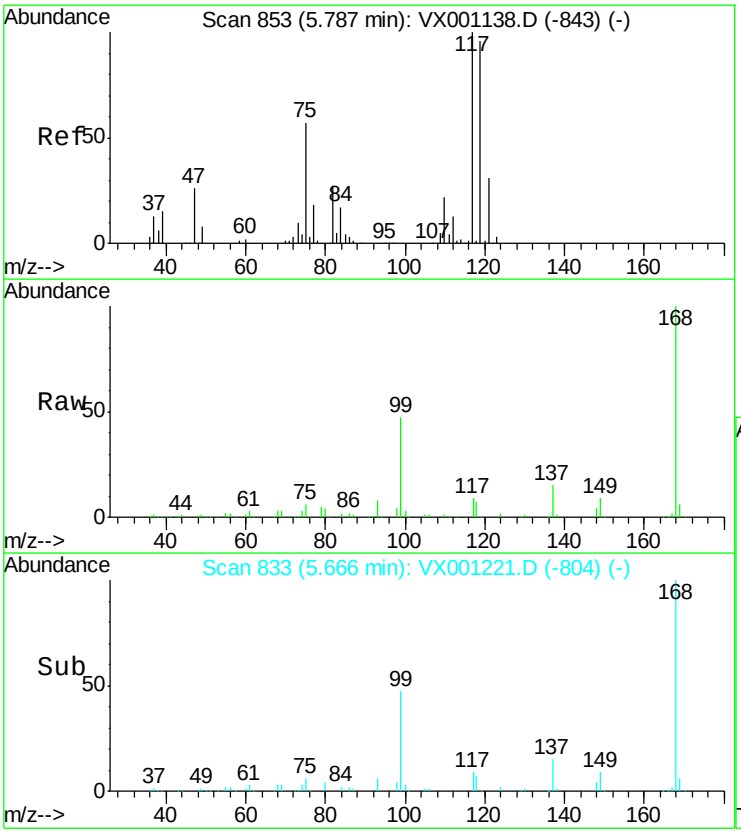
#36
1,1-Dichloropropene
Concen: 4.22 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.13 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 75 Resp: 10914

Ion	Ratio	Lower	Upper
75	100		
110	8.9	19.0	57.0#
77	0.0	24.8	37.2#

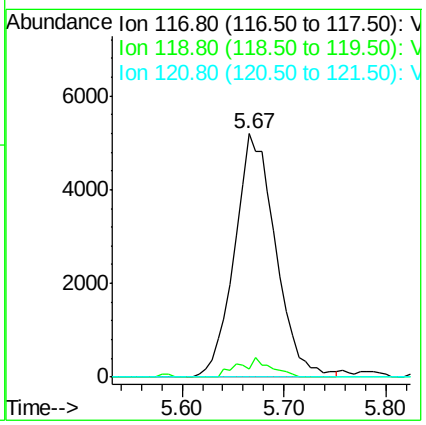


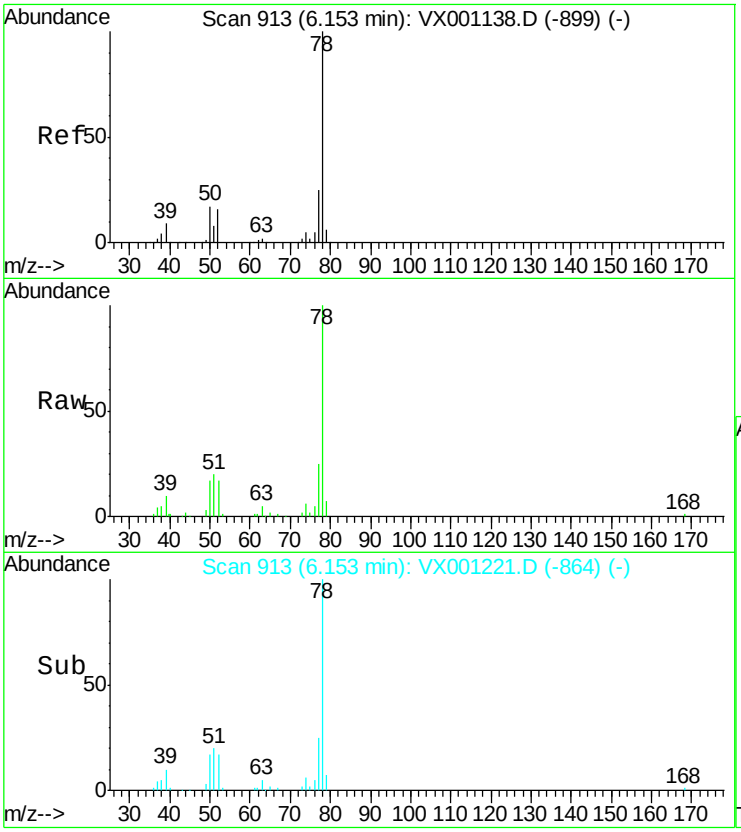


#38
Carbon Tetrachloride
Concen: 5.45 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion:117 Resp: 14476

Ion	Ratio	Lower	Upper
117	100		
119	3.1	76.5	114.7#
121	0.0	24.6	37.0#



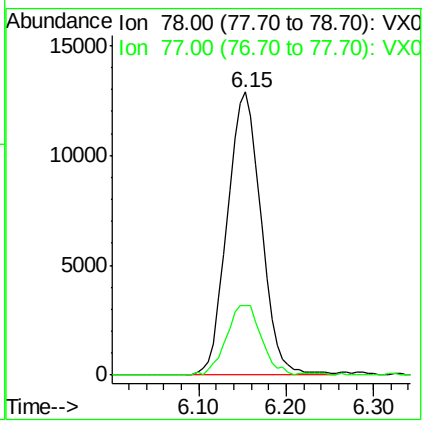


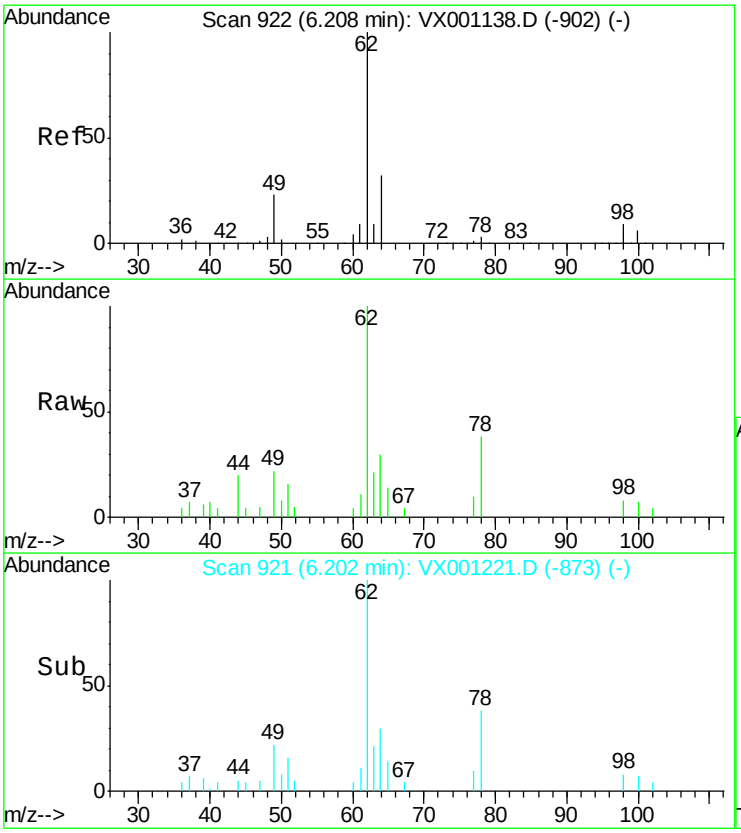
#40
Benzene
Concen: 4.64 ug/l
RT: 6.15 min Scan# 913
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 78 Resp: 34782

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.7	29.5

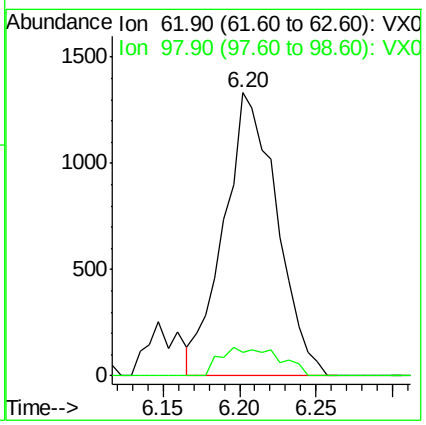


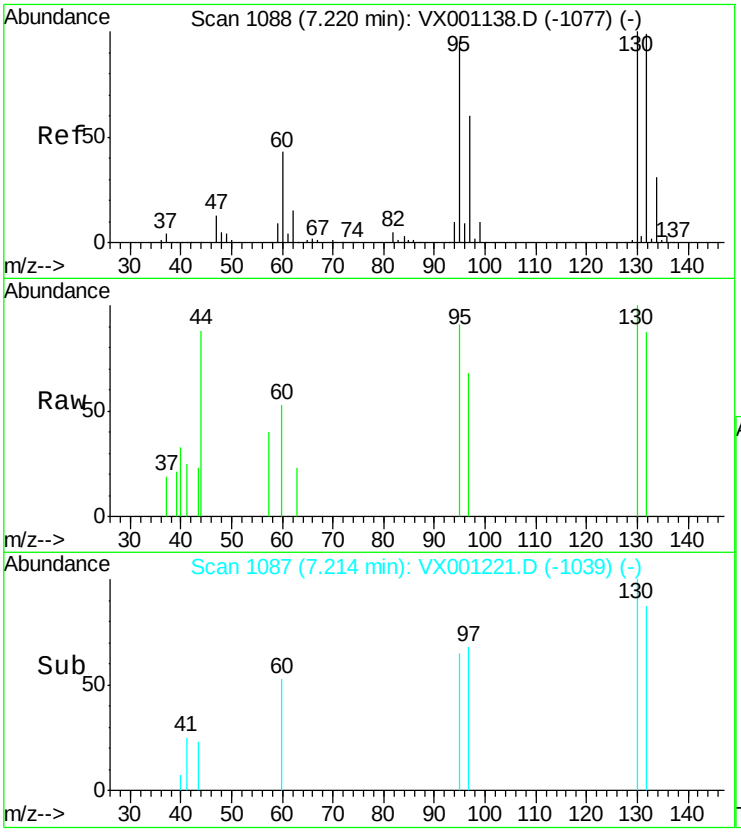


#42
1,2-Dichloroethane
Concen: 1.06 ug/l
RT: 6.20 min Scan# 921
Delta R.T. -0.01 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 62 Resp: 3213

Ion	Ratio	Lower	Upper
62	100		
98	11.1	0.0	17.0



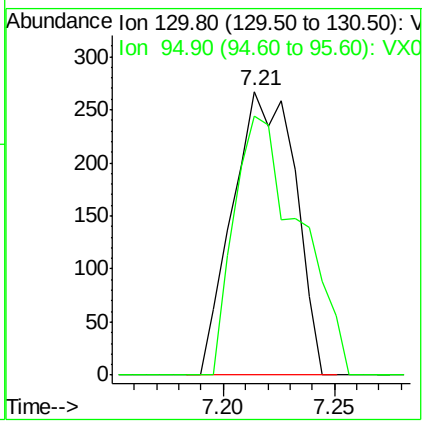


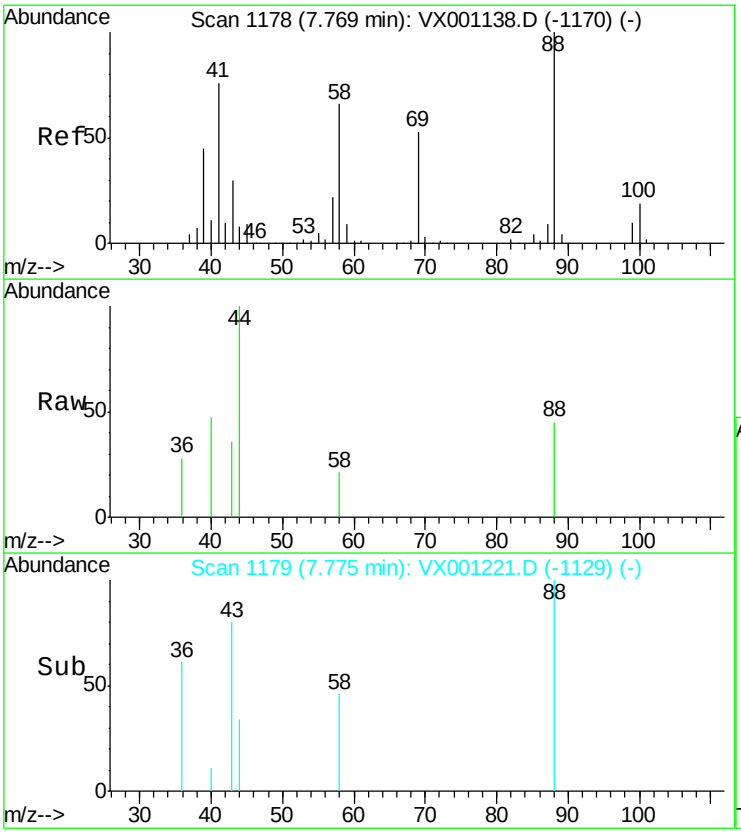
#44
Trichloroethene
Concen: 0.23 ug/l
RT: 7.21 min Scan# 1087
Delta R.T. -0.01 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion:130 Resp: 521

Ion	Ratio	Lower	Upper
130	100		
95	91.4	0.0	189.6

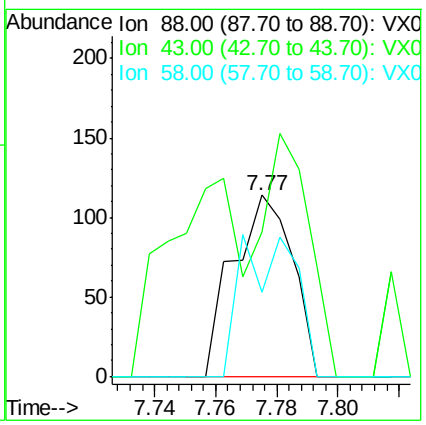


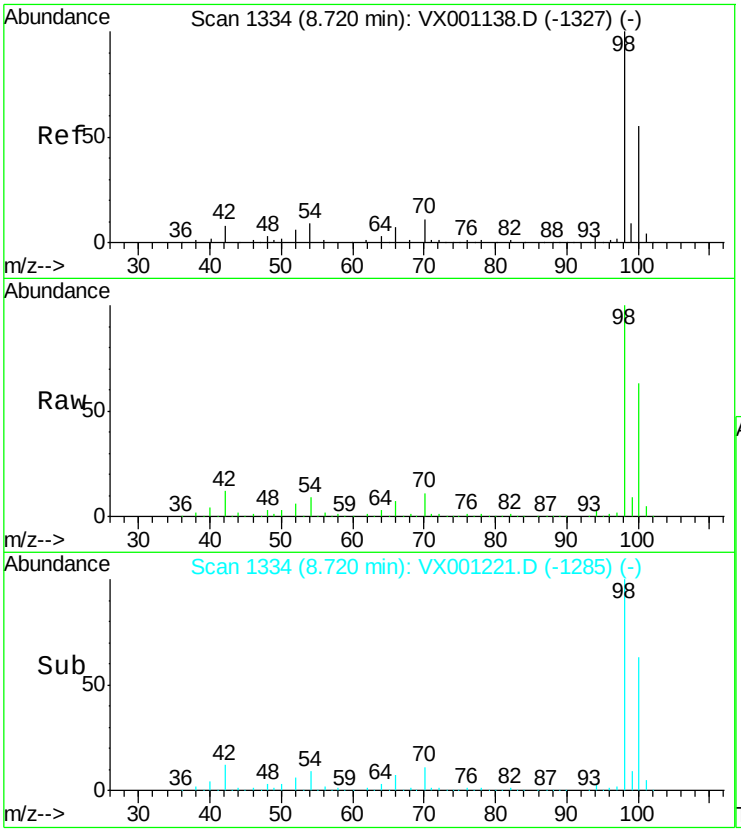


#49
1,4-Dioxane
Concen: 2.97 ug/l
RT: 7.77 min Scan# 1179
Delta R.T. 0.01 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 88 Resp: 154

Ion	Ratio	Lower	Upper
88	100		
43	105.2	27.3	40.9#
58	70.8	54.2	81.4



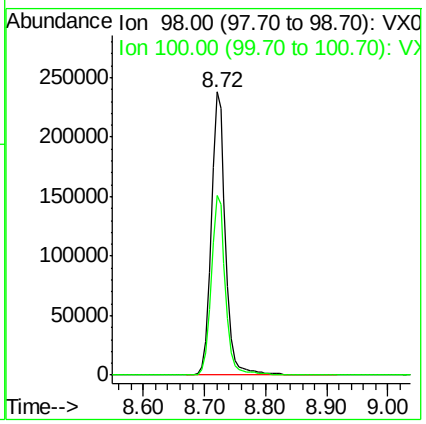


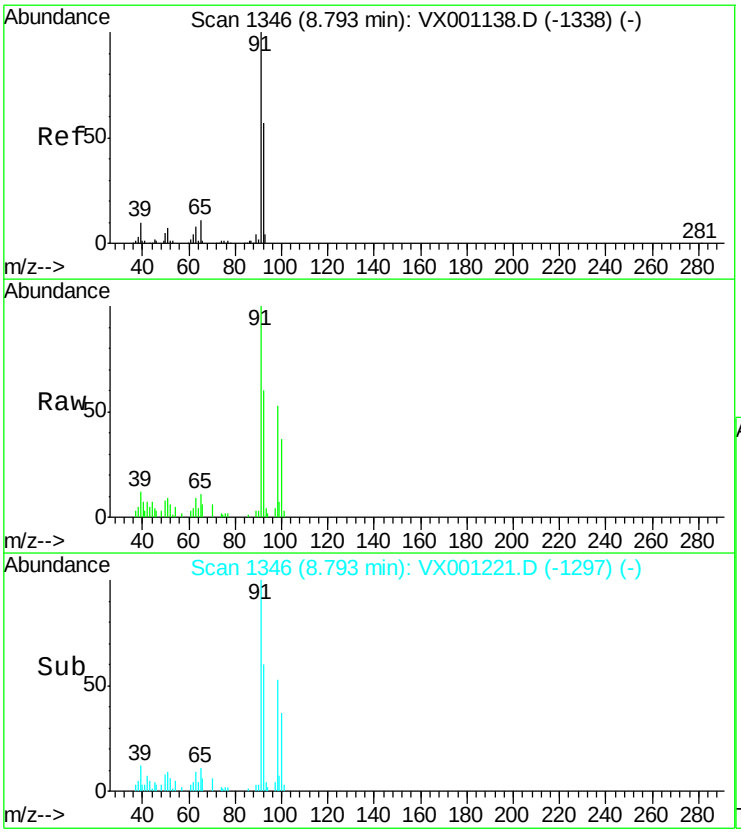
#50
Toluene-d8
Concen: 53.23 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 98 Resp: 390629

Ion	Ratio	Lower	Upper
98	100		
100	63.6	51.8	77.6

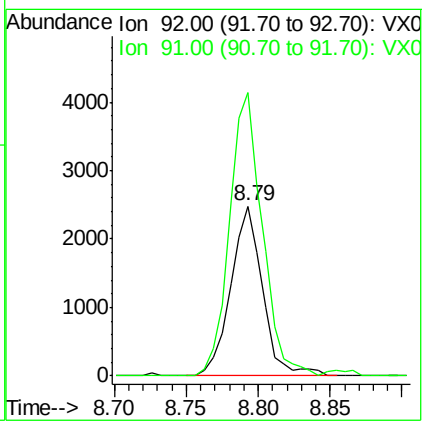


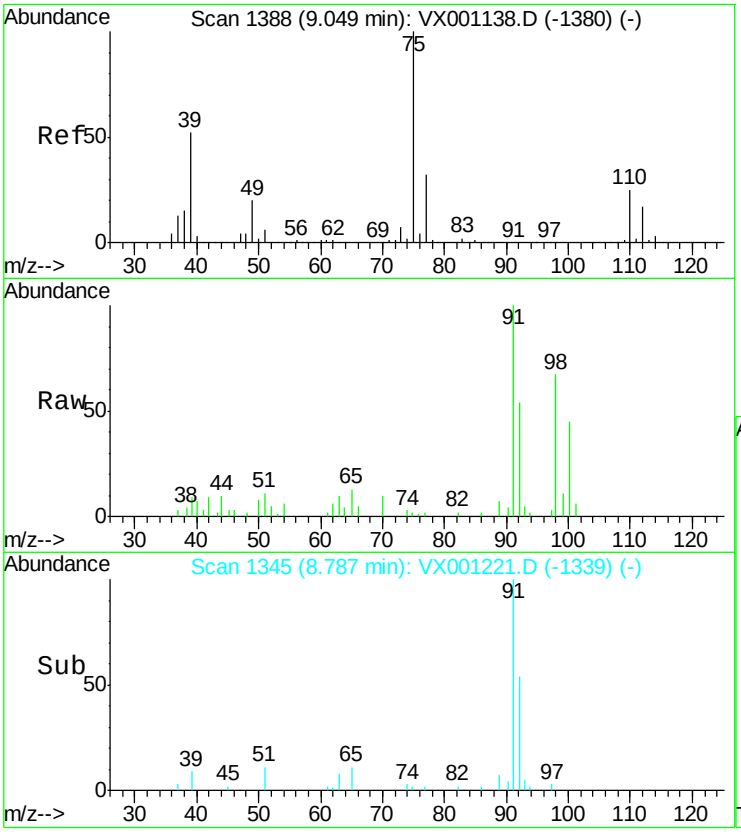


#52
Toluene
Concen: 0.78 ug/l
RT: 8.79 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 92 Resp: 3827

Ion	Ratio	Lower	Upper
92	100		
91	171.8	139.8	209.6



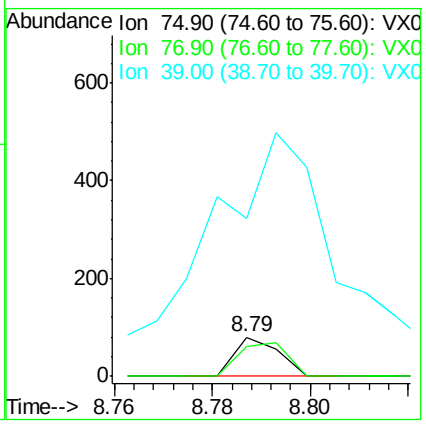


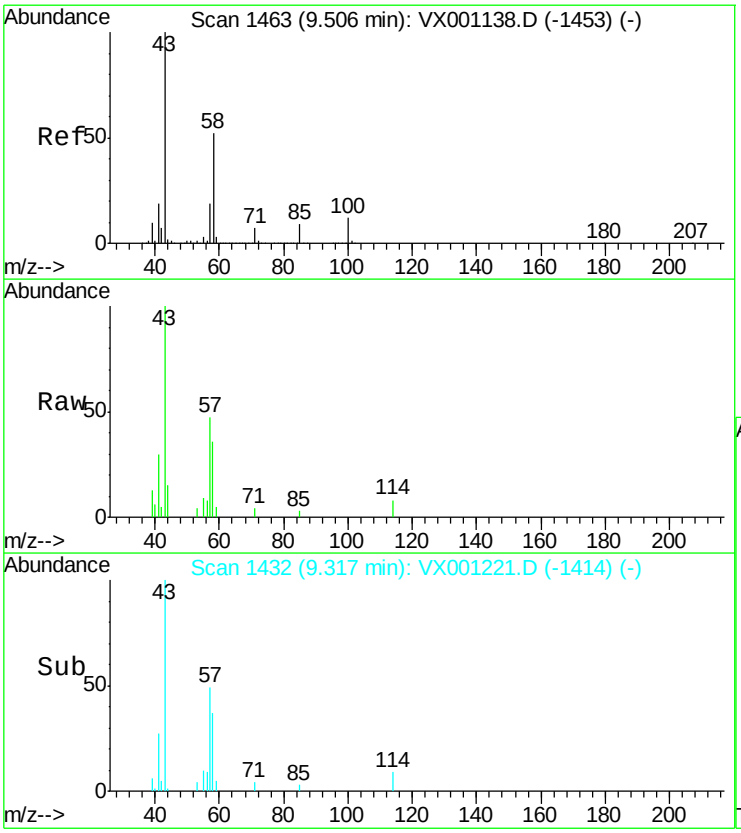
#54
cis-1,3-Dichloropropene
Concen: 3.20 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. -0.26 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 75 Resp: 49

Ion	Ratio	Lower	Upper
75	100		
77	76.3	25.4	38.2#
39	165.0	42.0	63.0#

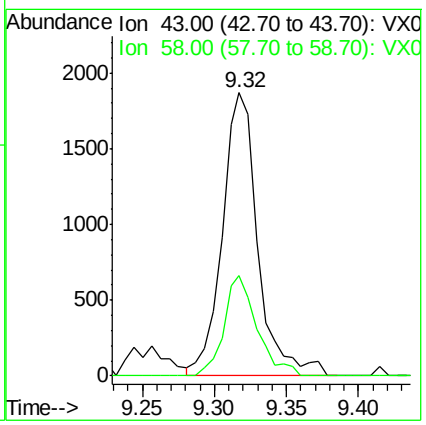


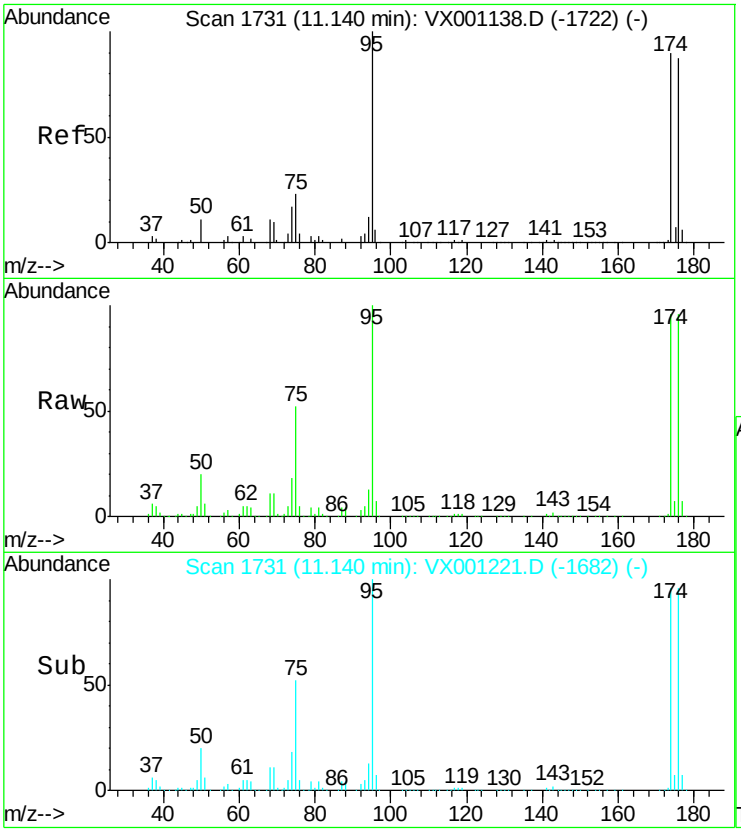


#59
2-Hexanone
Concen: 1.29 ug/l
RT: 9.32 min Scan# 1432
Delta R.T. -0.19 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 43 Resp: 3232

Ion	Ratio	Lower	Upper
43	100		
58	33.0	25.8	77.4



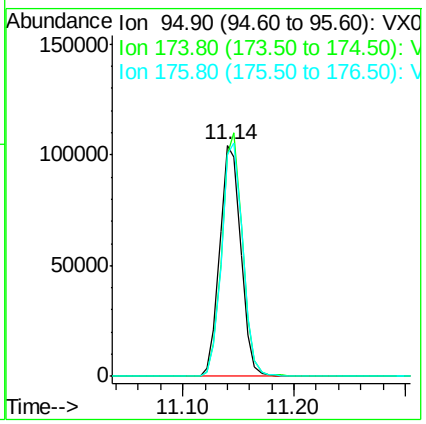


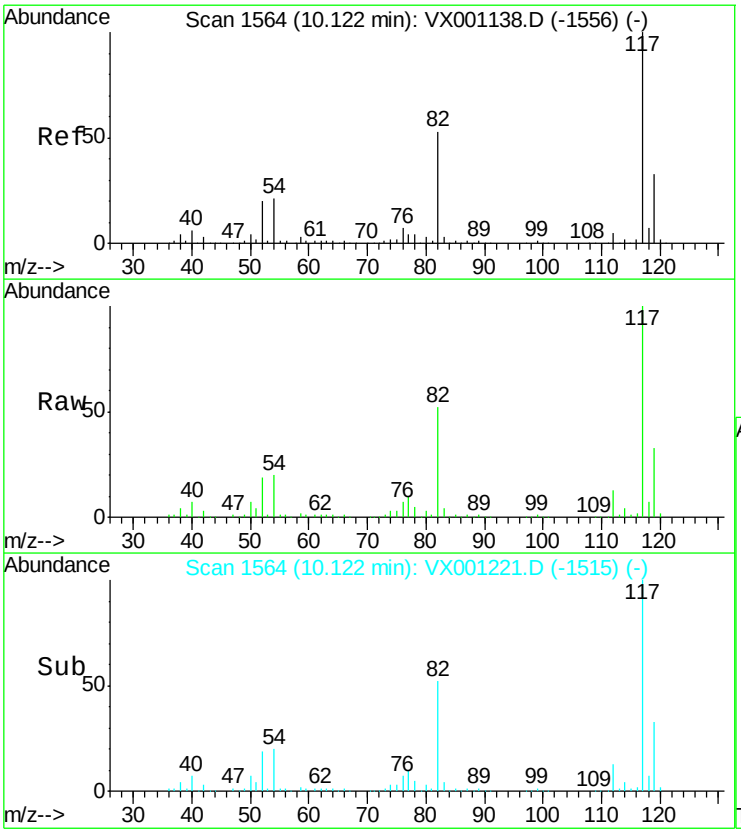
#62
4-Bromofluorobenzene
Concen: 47.91 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 95 Resp: 137334

Ion	Ratio	Lower	Upper
95	100		
174	102.5	0.0	194.4
176	100.7	0.0	190.2

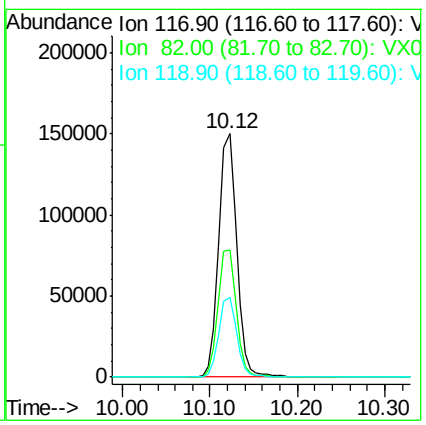


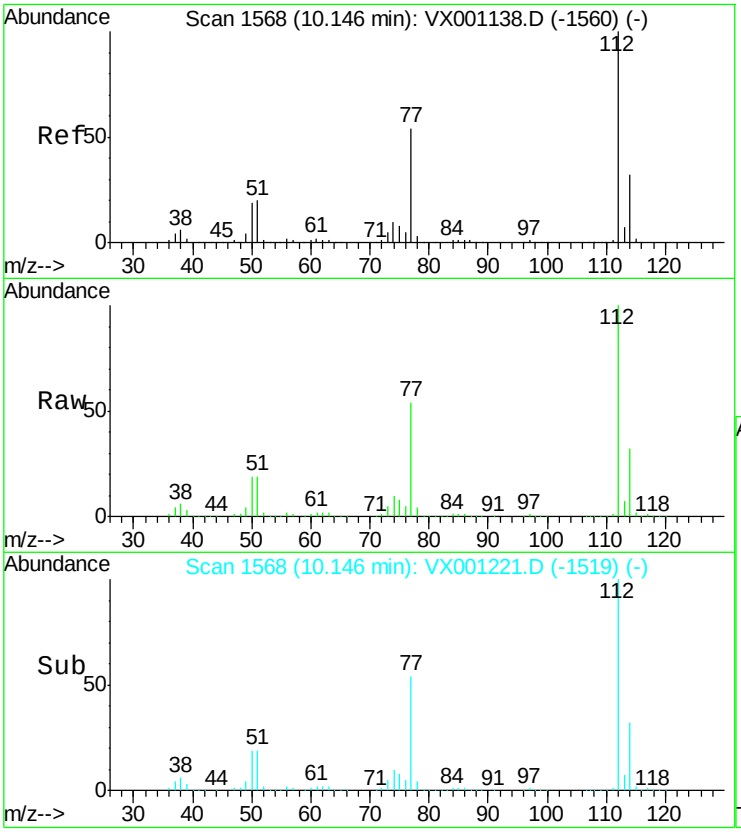


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion:117 Resp: 214782

Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.1	63.1
119	32.6	26.1	39.1



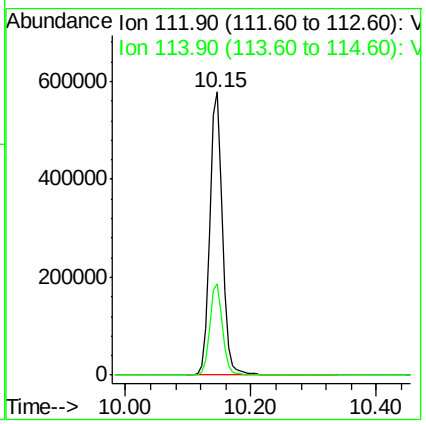


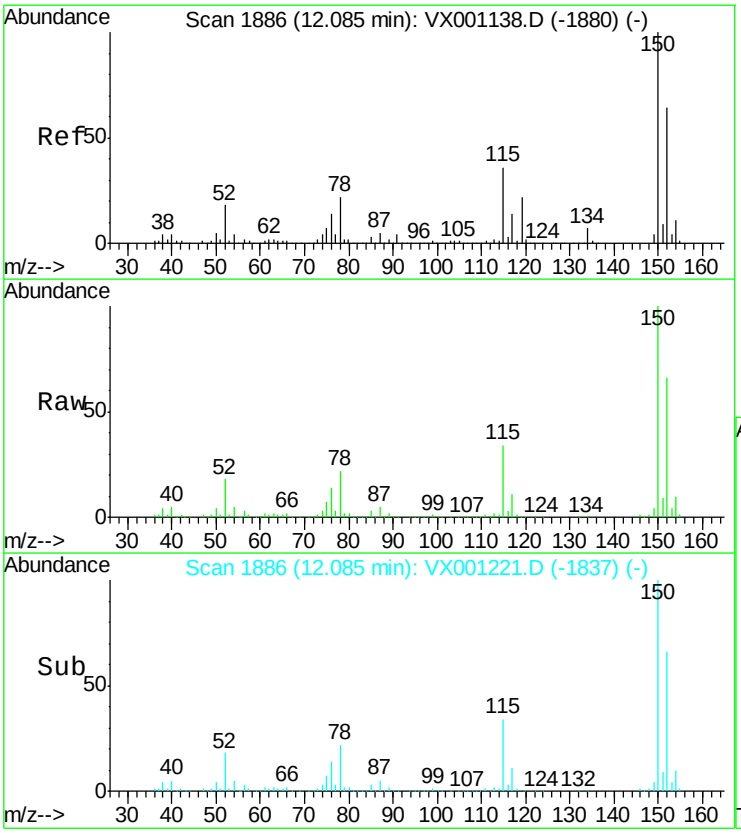
#65
Chlorobenzene
Concen: 142.46 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion:112 Resp: 801645

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.7	38.5

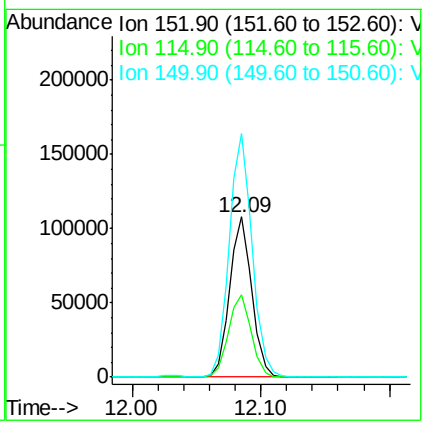


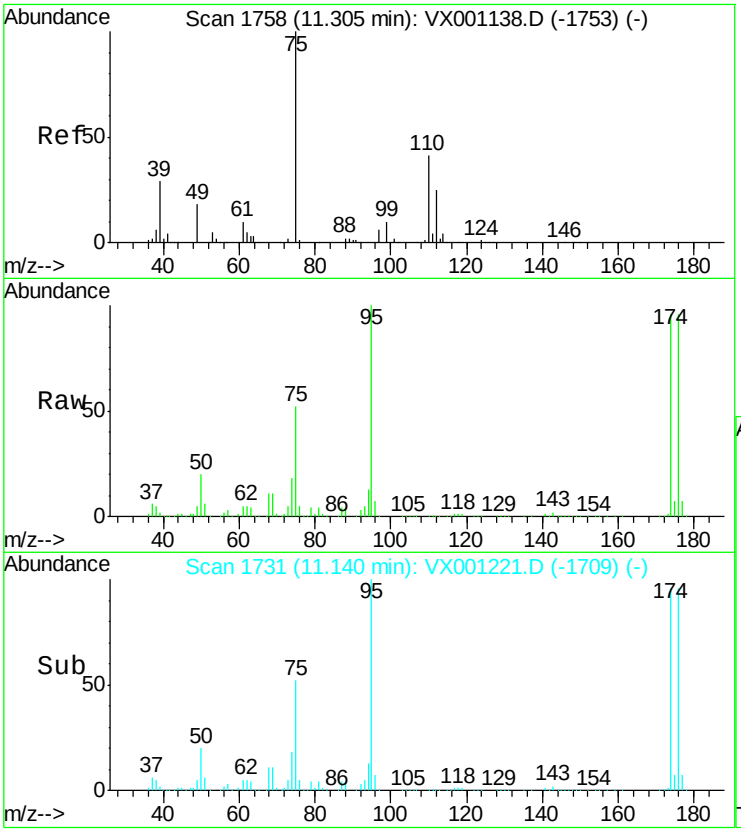


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion:152 Resp: 129598

Ion	Ratio	Lower	Upper
152	100		
115	52.8	38.0	114.0
150	157.1	0.0	349.6



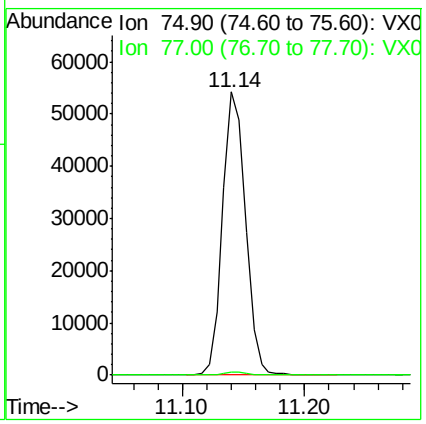


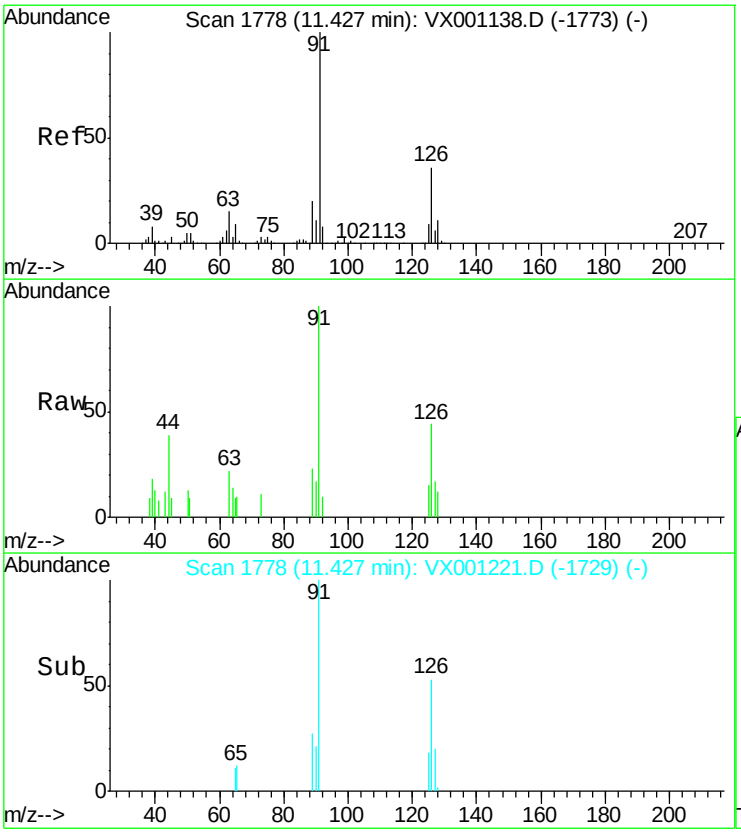
#76
1,2,3-Trichloropropane
Concen: 26.83 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.16 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 75 Resp: 70801

Ion	Ratio	Lower	Upper
75	100		
77	1.1	18.9	56.9#

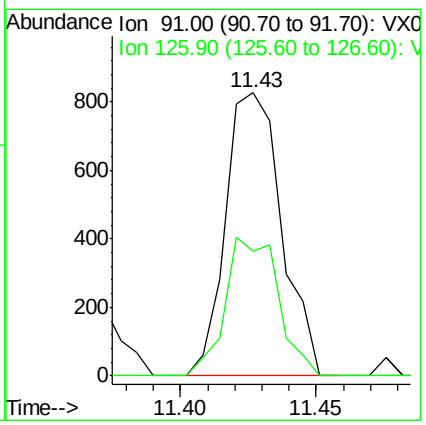


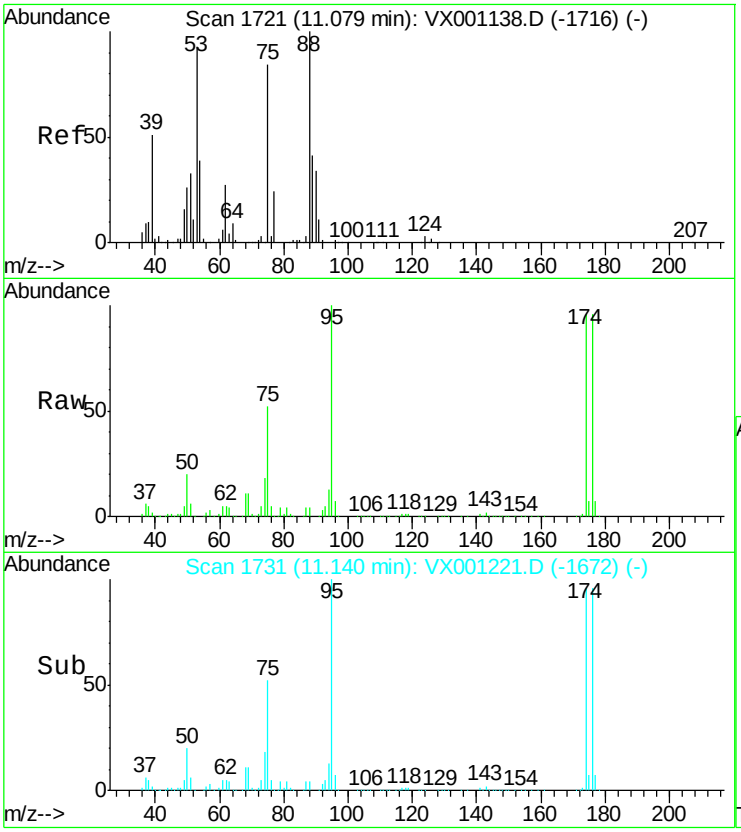


#79
2-Chlorotoluene
Concen: 0.20 ug/l
RT: 11.43 min Scan# 1778
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 91 Resp: 1179

Ion	Ratio	Lower	Upper
91	100		
126	46.2	18.2	54.6



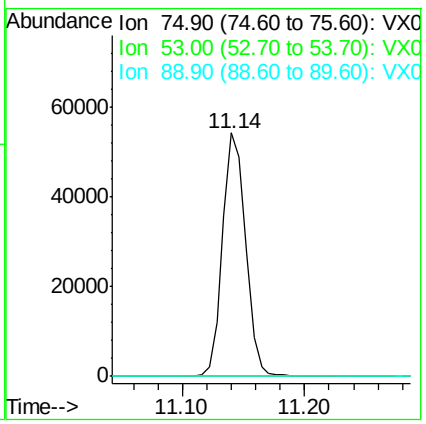


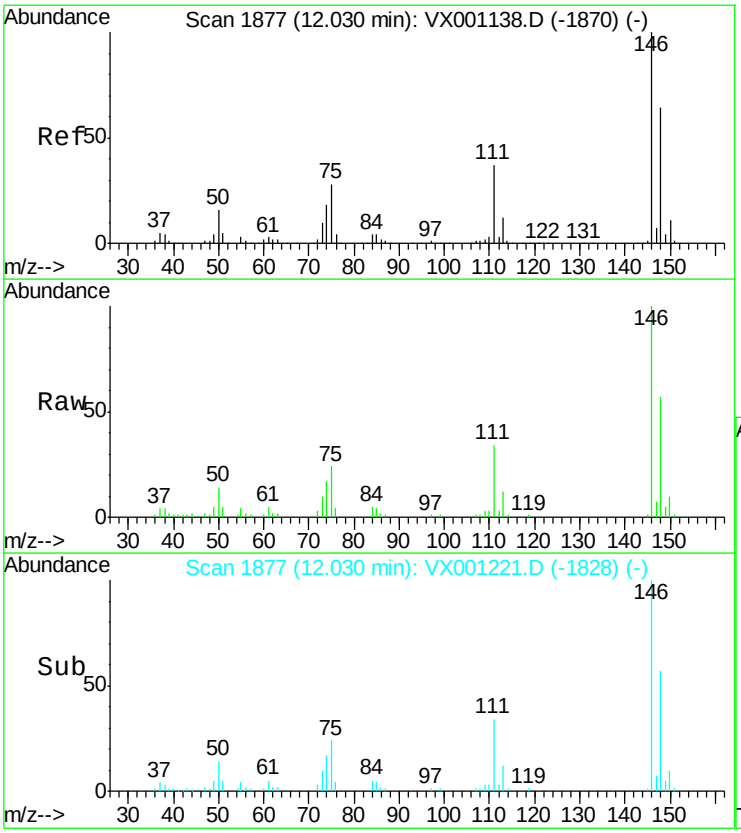
#81
trans-1,4-Dichloro-2-butene
Concen: 81.66 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion: 75 Resp: 70801

Ion	Ratio	Lower	Upper
75	100		
53	0.1	87.9	131.9#
89	0.0	37.7	56.5#

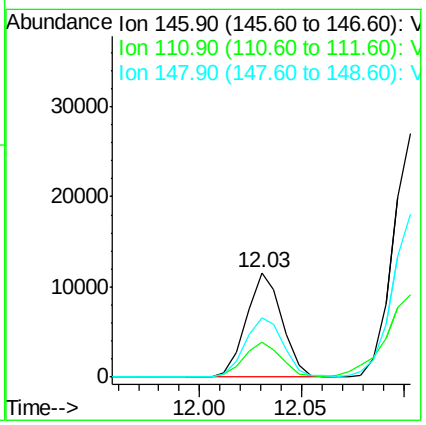


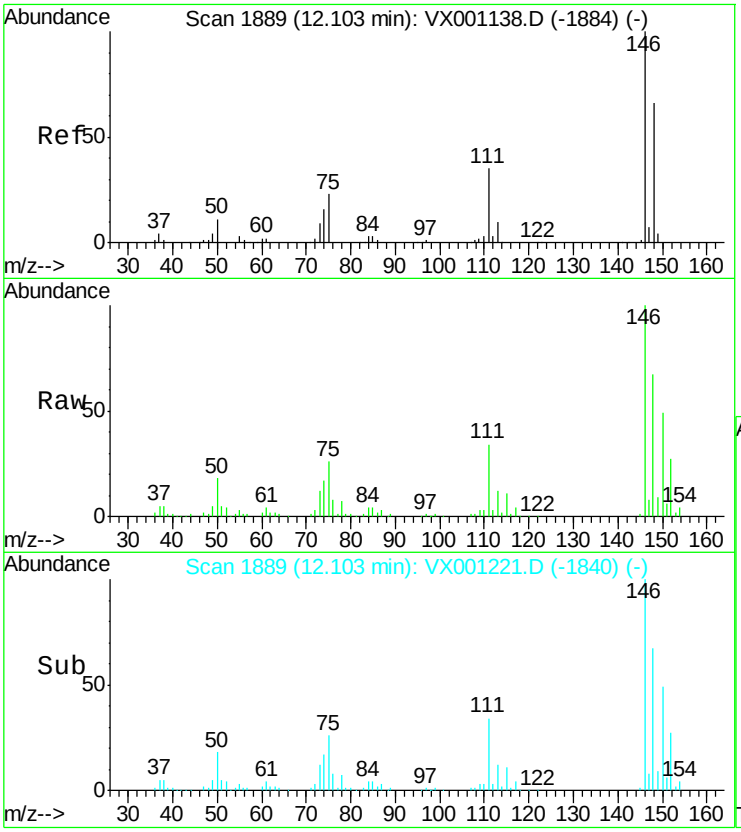


#87
1,3-Dichlorobenzene
Concen: 3.14 ug/l
RT: 12.03 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion:146 Resp: 14131

Ion	Ratio	Lower	Upper
146	100		
111	34.6	18.6	56.0
148	60.7	32.3	96.8



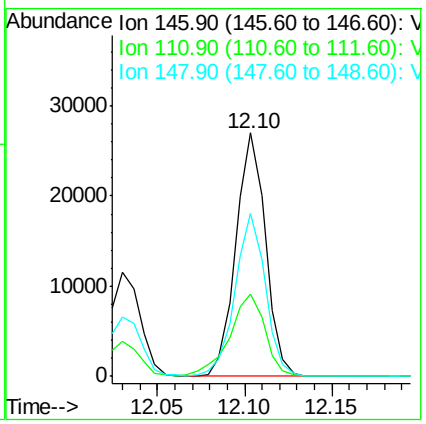


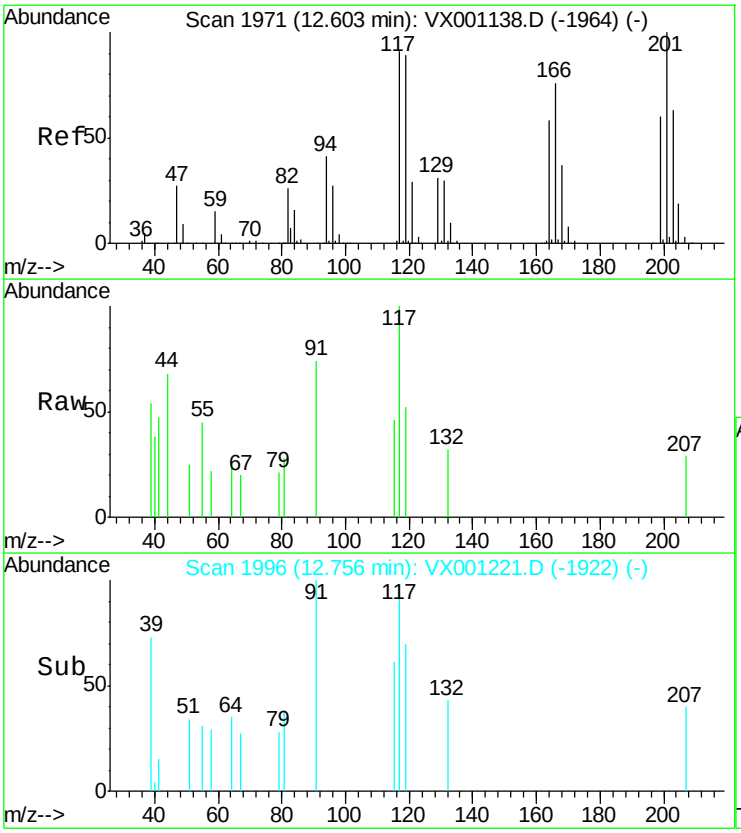
#88
1,4-Dichlorobenzene
Concen: 6.81 ug/l
RT: 12.10 min Scan# 1889
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion:146 Resp: 31901

Ion	Ratio	Lower	Upper
146	100		
111	40.7	18.0	54.0
148	68.2	32.5	97.5

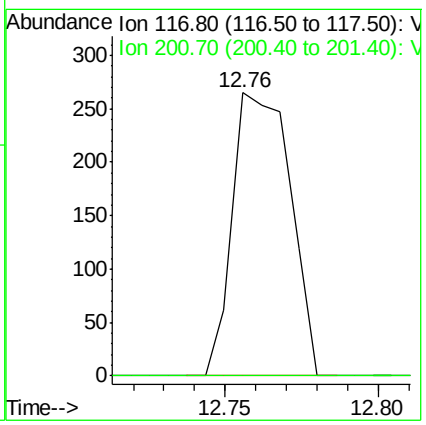


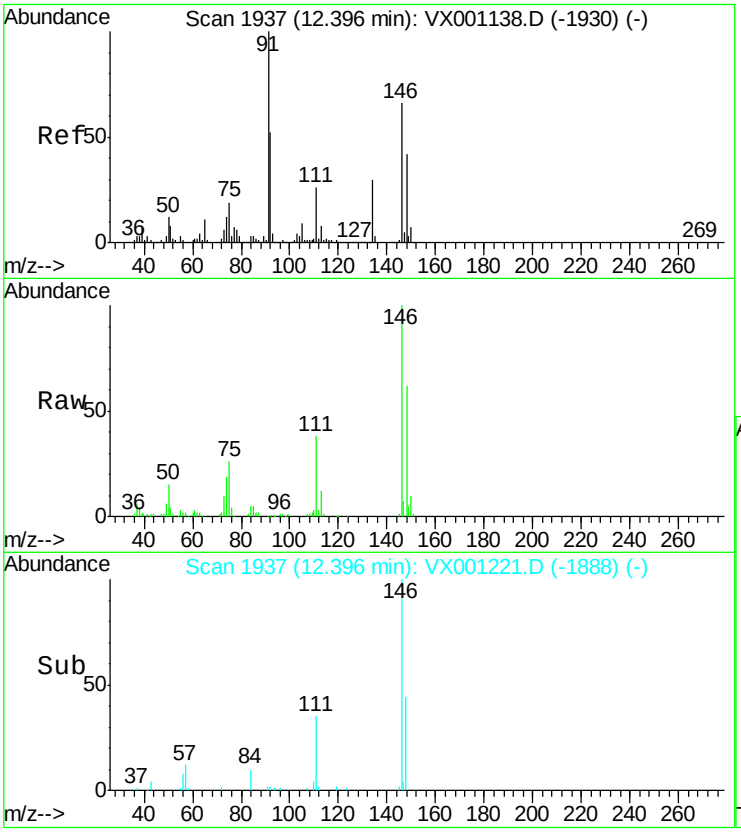


#90
Hexachloroethane
Concen: 3.63 ug/l
RT: 12.76 min Scan# 1996
Delta R.T. 0.15 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion:117 Resp: 346

Ion	Ratio	Lower	Upper
117	100		
201	0.0	51.8	155.4#



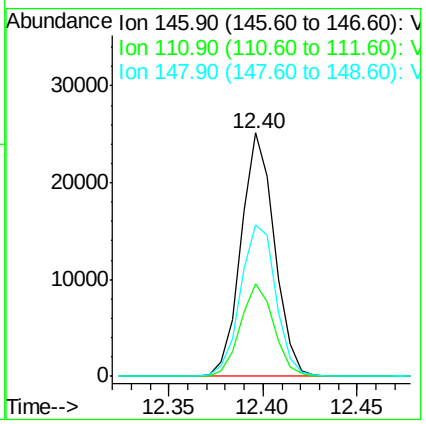


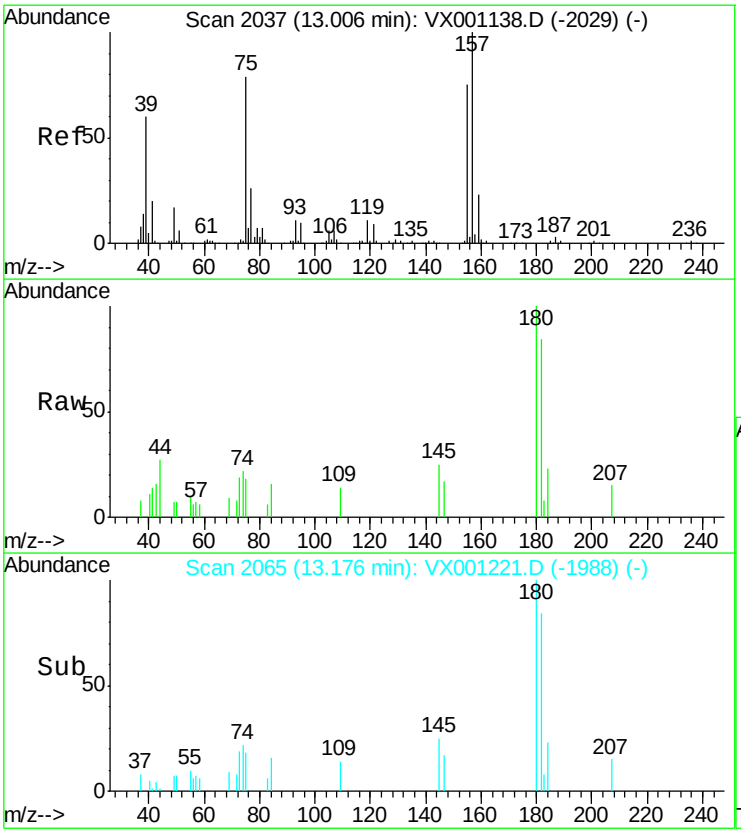
#91
1,2-Dichlorobenzene
Concen: 6.81 ug/l
RT: 12.40 min Scan# 1937
Delta R.T. 0.00 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Instrument :
MSVOA_X
ClientSampleId :
WP022MW359-180423

Tgt Ion:146 Resp: 30963

Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.1	57.3
148	65.7	32.2	96.6





#92
1,2-Dibromo-3-Chloropropane
Concen: 0.30 ug/l
RT: 13.18 min Scan# 2065
Delta R.T. 0.17 min
Lab File: VX001221.D
Acq: 28 Apr 2018 18:30

Tgt Ion: 75 Resp: 187

Ion	Ratio	Lower	Upper
75	100		
155	0.0	48.4	145.3#
157	0.0	62.7	188.1#