

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX032918\
 Data File : VX000551.D
 Acq On : 30 Mar 2018 08:34
 Operator : JC/MD
 Sample : J2094-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 30 11:10:21 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	103621	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	185325	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	188267	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	98702	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	75120	55.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.08%	
35) Dibromofluoromethane	5.51	113	58407	50.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.04%	
50) Toluene-d8	8.73	98	237262	49.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.12%	
62) 4-Bromofluorobenzene	11.15	95	82864	41.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.42%	

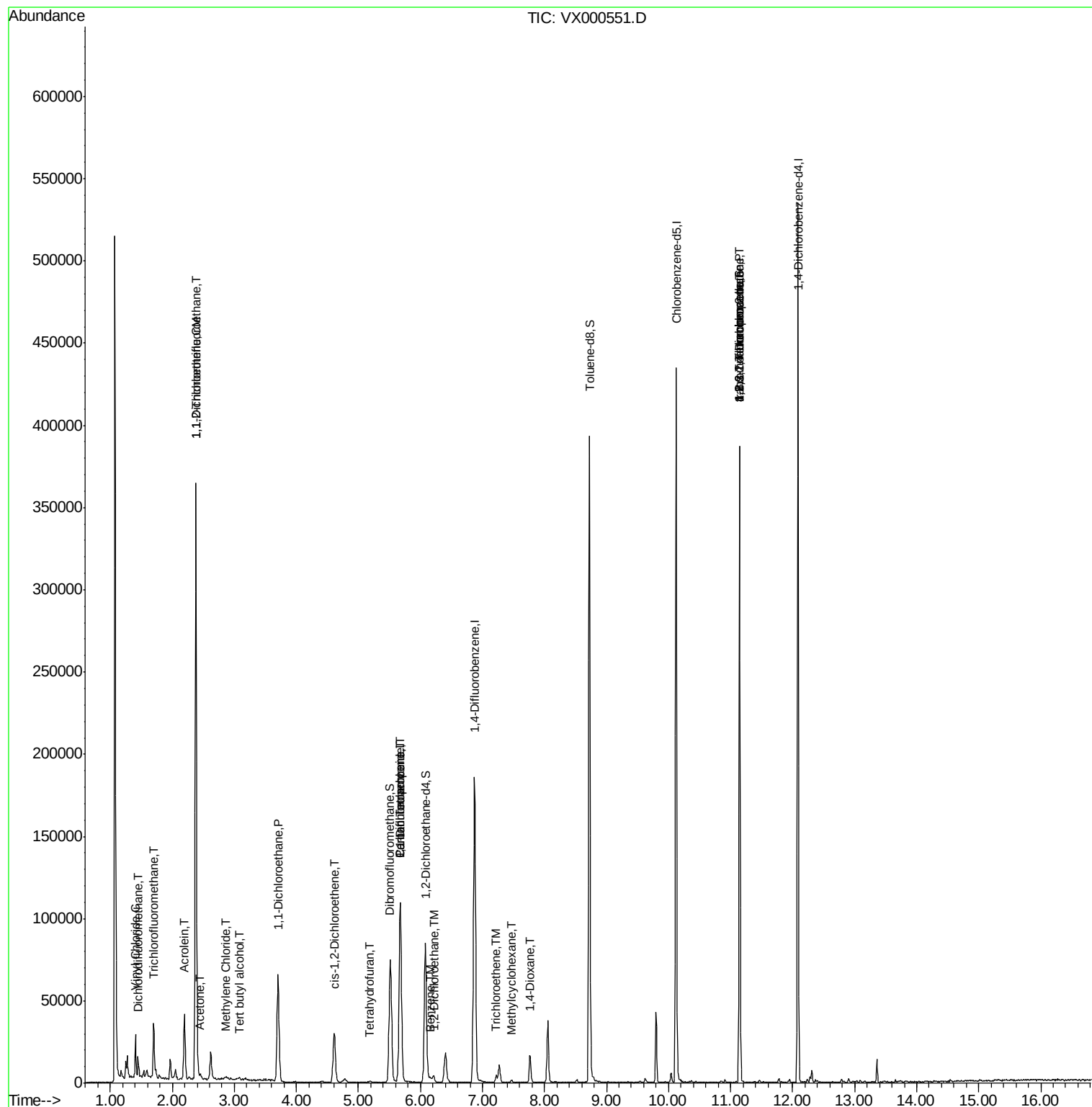
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.45	85	2328	2.04	ug/l	99
4) Vinyl Chloride	1.40	62	16780	13.20	ug/l	99
6) Chloroethane	1.73	64	2183	Below Cal	#	83
7) Trichlorofluoromethane	1.70	101	516	0.22	ug/l #	18
9) 1,1,2-Trichlorotrifluoroet	2.39	101	269	0.21	ug/l #	18
11) Tert butyl alcohol	3.08	59	1613	3.47	ug/l	99
12) 1,1-Dichloroethene	2.38	96	111523	99.29	ug/l	97
13) Acrolein	2.18	56	23	14.72	ug/l #	1
14) Allyl chloride	2.71	41	78	Below Cal	#	22
16) Acetone	2.45	43	2701	2.40	ug/l	97
20) Methylene Chloride	2.87	84	843	0.65	ug/l #	71
24) 1,1-Dichloroethane	3.70	63	66896	30.30	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	18511	15.81	ug/l	87
29) Tetrahydrofuran	5.17	42	157	0.20	ug/l #	49
36) 1,1-Dichloropropene	5.67	75	8335	4.80	ug/l #	49
38) Carbon Tetrachloride	5.68	117	10857	5.96	ug/l #	16
39) Methylcyclohexane	7.46	83	463	0.22	ug/l #	64
40) Benzene	6.16	78	2972	0.59	ug/l	94
42) 1,2-Dichloroethane	6.21	62	3781	1.91	ug/l	98
44) Trichloroethene	7.21	130	1586	1.10	ug/l	83
49) 1,4-Dioxane	7.77	88	11823	328.23	ug/l	97
74) N-amyl acetate	6.49	43	232	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.15	83	750	0.32	ug/l	78
76) 1,2,3-Trichloropropane	11.15	75	47902	22.58	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.15	75	47902	73.11	ug/l #	15

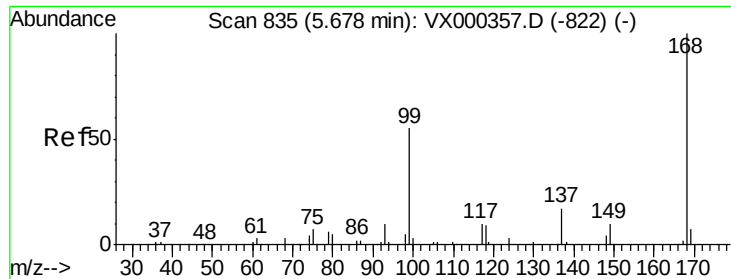
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 21 04:52:42 2018
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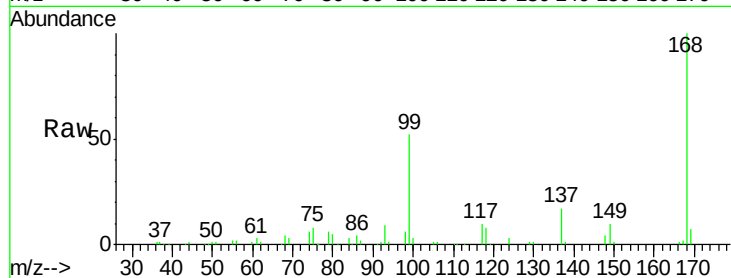




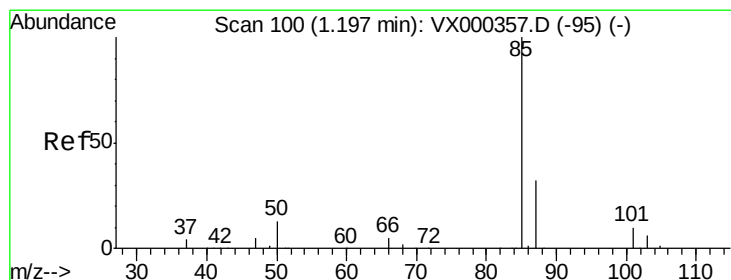
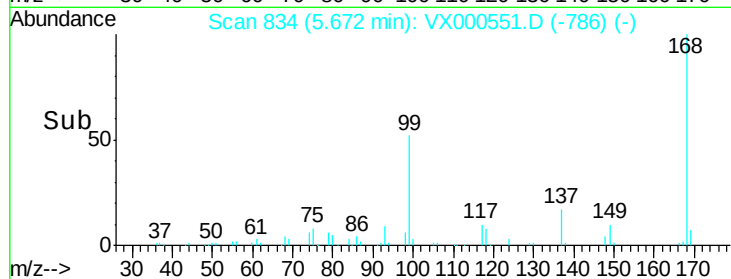
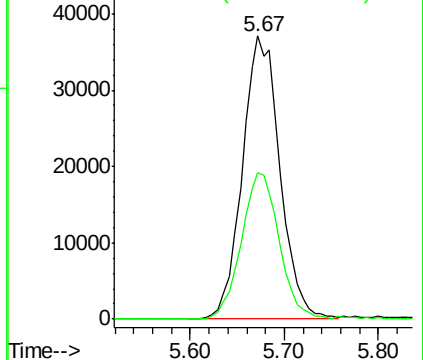
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.01 min
Lab File: VX000551.D
Acq: 30 Mar 2018 08:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 103621
Ion Ratio Lower Upper
168 100
99 51.6 45.8 68.6

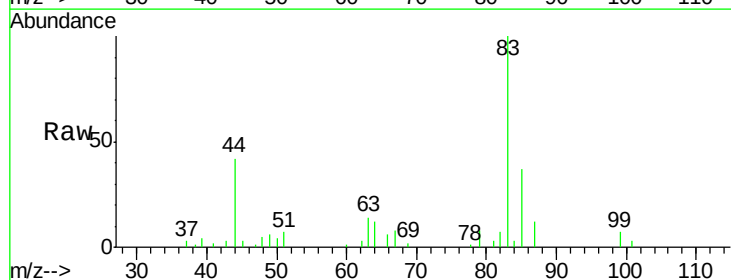


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VX0

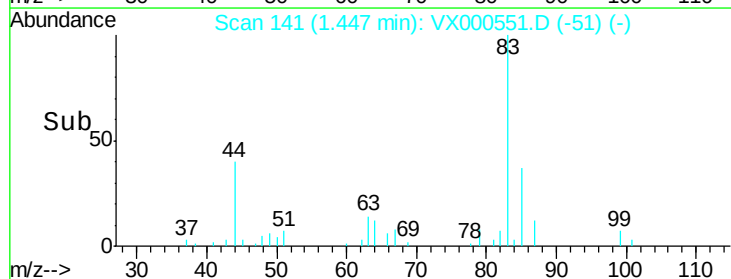
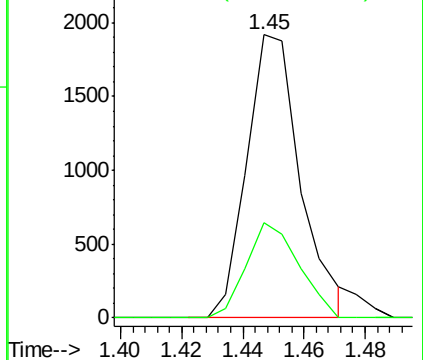


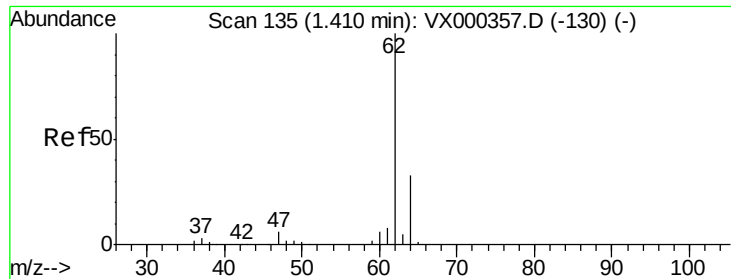
#2
Dichlorodifluoromethane
Concen: 2.04 ug/l
RT: 1.45 min Scan# 141
Delta R.T. 0.25 min
Lab File: VX000551.D
Acq: 30 Mar 2018 08:34

Tgt Ion: 85 Resp: 2328
Ion Ratio Lower Upper
85 100
87 33.8 16.8 50.3



Abundance Ion 84.90 (84.60 to 85.60): VX0
Ion 86.90 (86.60 to 87.60): VX0





#4

Vinyl Chloride

Concen: 13.20 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

Instrument :

MSVOA_X

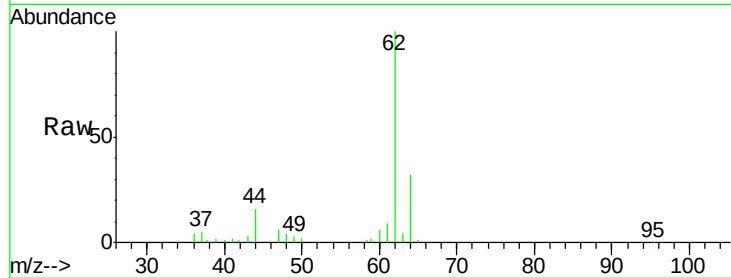
ClientSampleId :

Tot Ion: 62 Resp: 16780

Ion Ratio Lower Upper

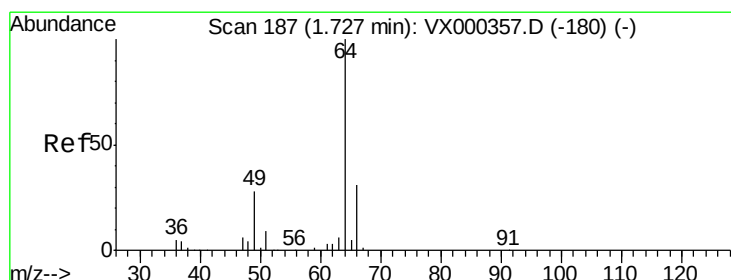
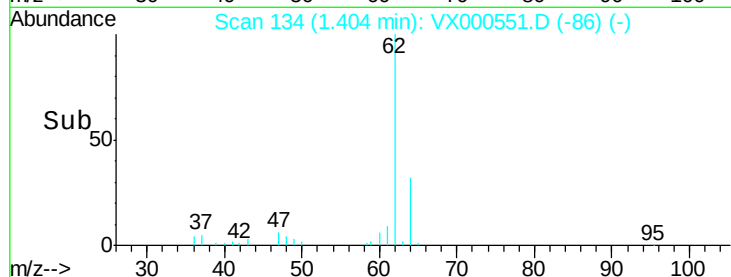
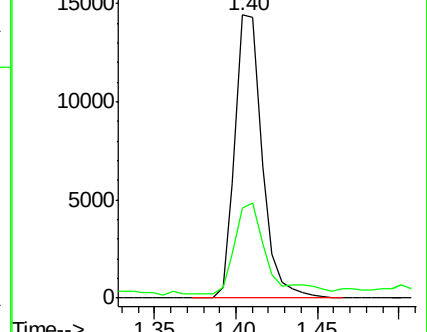
62 100

64 30.2 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX000551.D

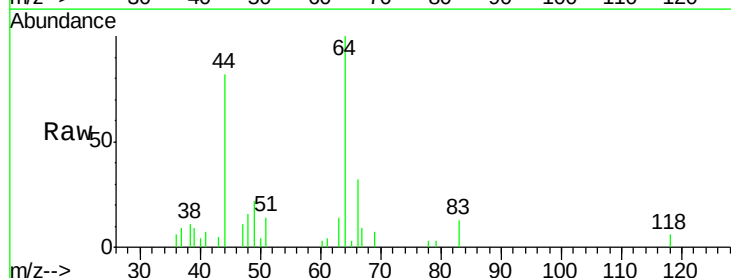
Acq: 30 Mar 2018 08:34

Tgt Ion: 64 Resp: 2183

Ion Ratio Lower Upper

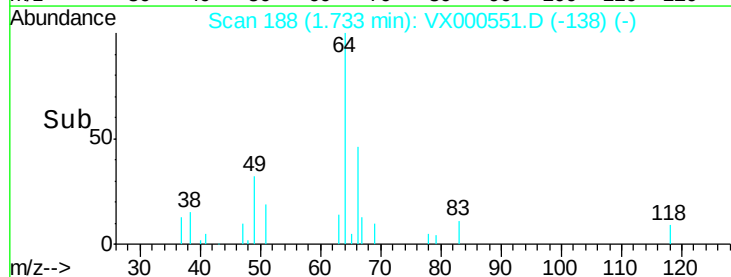
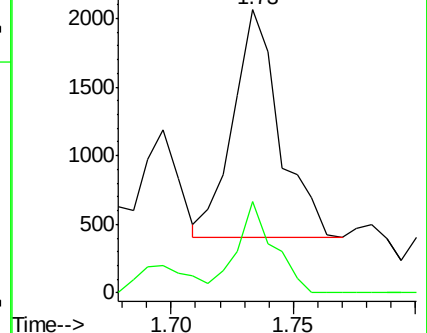
64 100

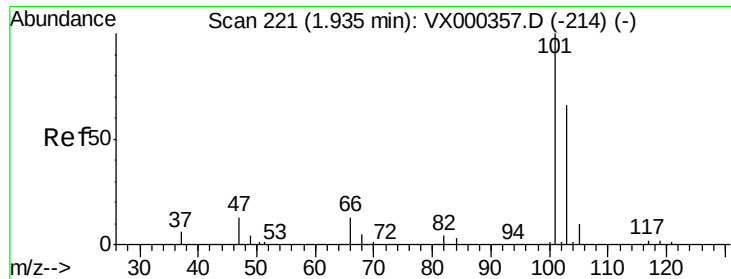
66 40.3 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



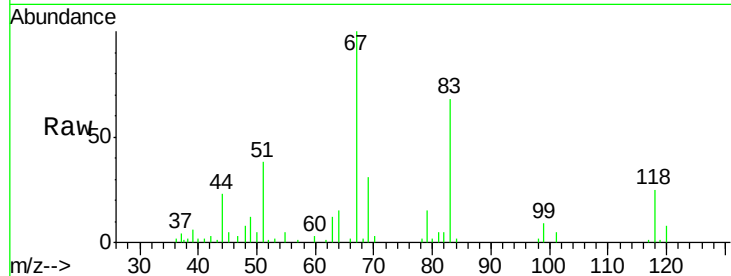


#7

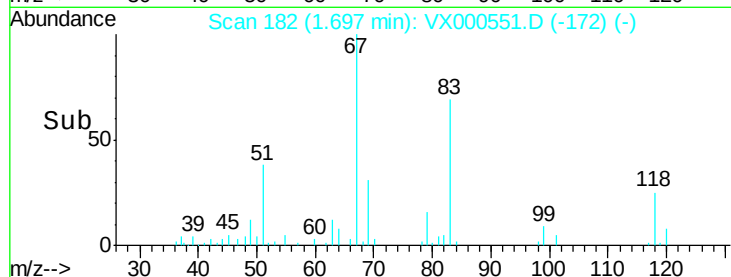
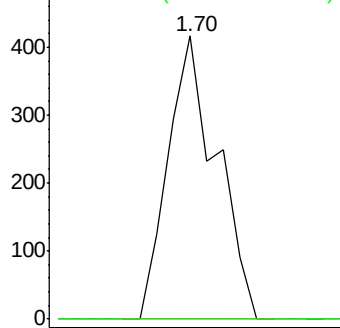
Trichlorofluoromethane
Concen: 0.22 ug/l
RT: 1.70 min Scan# 182
Delta R.T. -0.24 min
Lab File: VX000551.D
Acq: 30 Mar 2018 08:34

Instrument :
MSVOA_X
ClientSampleId :

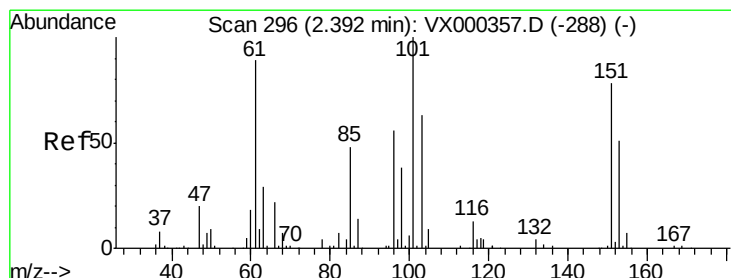
Tot Ion:101 Resp: 516
Ion Ratio Lower Upper
101 100
103 0.0 51.6 77.4#



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 102.80 (102.50 to 103.50): V



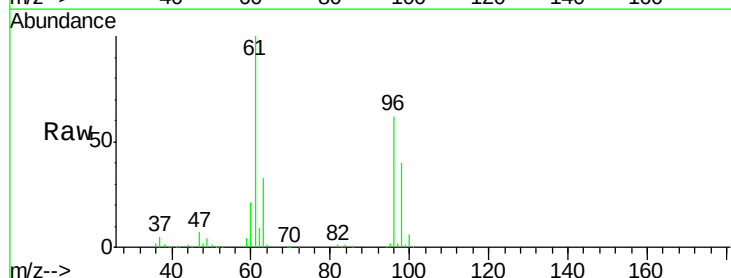
Time-->



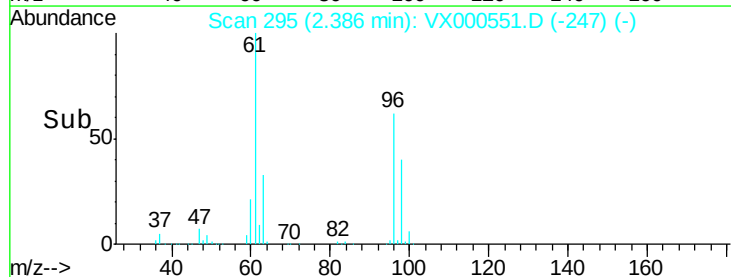
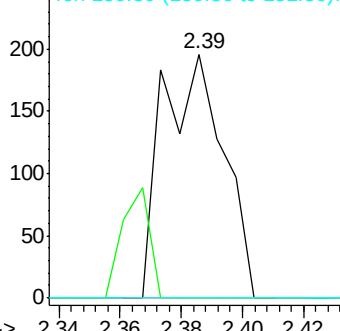
#9

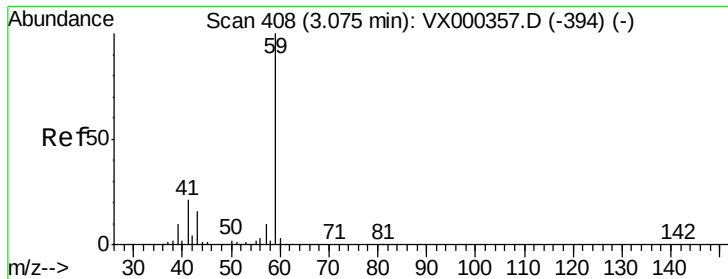
1,1,2-Trichlorotrifluoroethane
Concen: 0.21 ug/l
RT: 2.39 min Scan# 295
Delta R.T. -0.01 min
Lab File: VX000551.D
Acq: 30 Mar 2018 08:34

Tgt Ion:101 Resp: 269
Ion Ratio Lower Upper
101 100
85 0.0 37.6 56.4#
151 0.0 62.6 93.8#



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VX0
Ion 150.80 (150.50 to 151.50): V



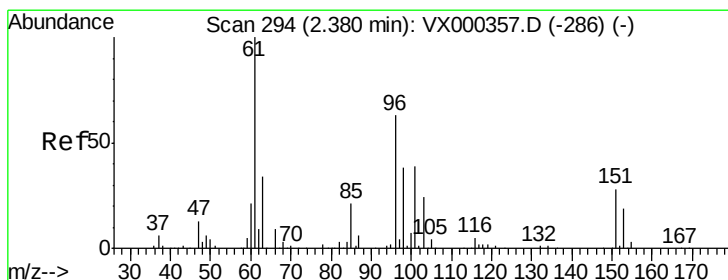
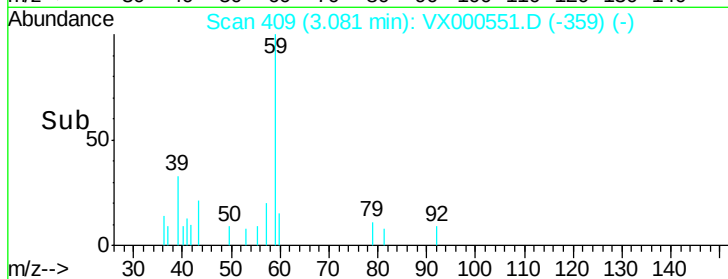
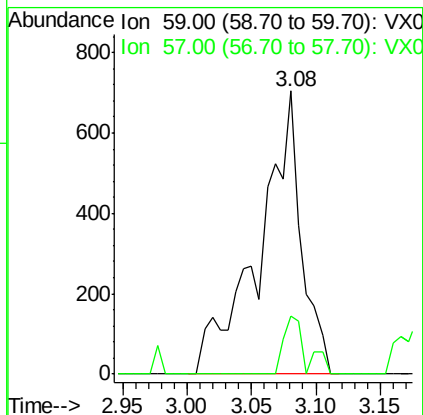
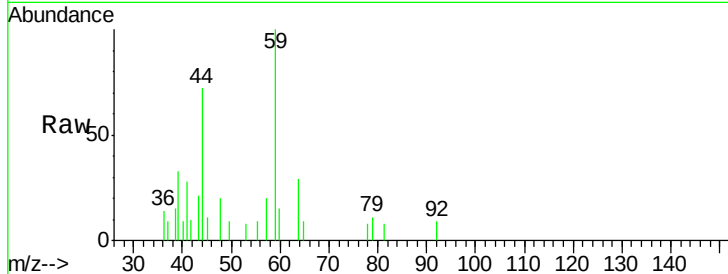


#11

Tert butyl alcohol
Concen: 3.47 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.01 min
Lab File: VX000551.D
Acq: 30 Mar 2018 08:34

Instrument :
MSVOA_X
ClientSampleId :

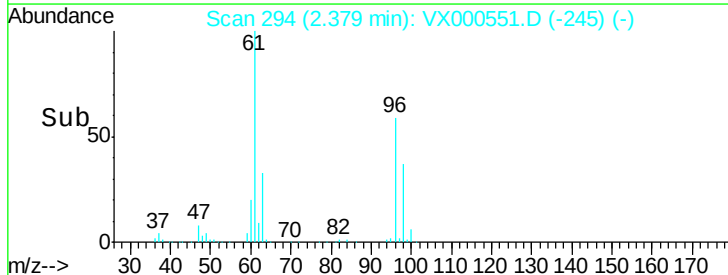
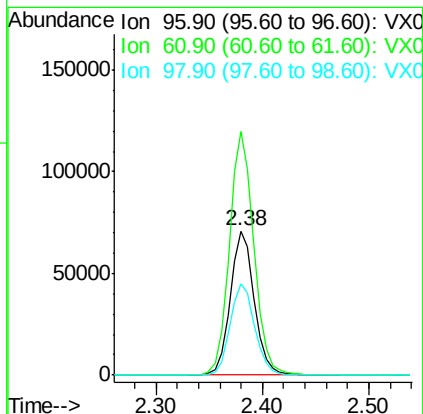
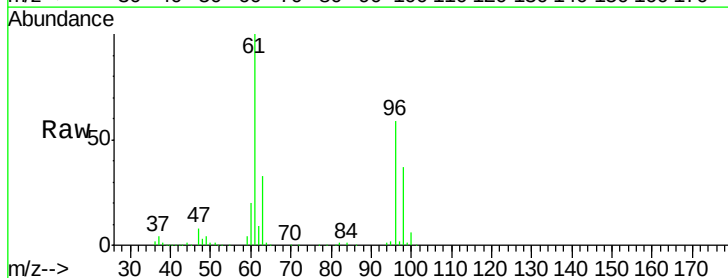
Tot Ion: 59 Resp: 1613
Ion Ratio Lower Upper
59 100
57 10.8 8.4 12.6

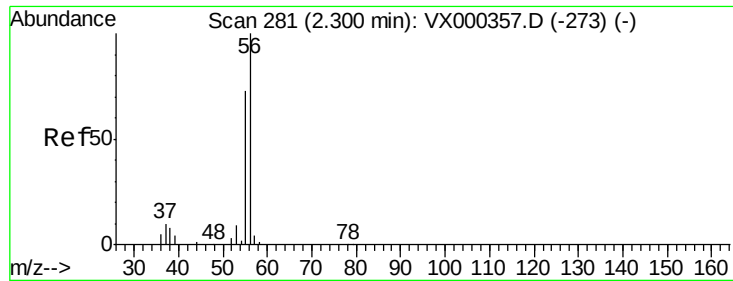


#12

1,1-Dichloroethene
Concen: 99.29 ug/l
RT: 2.38 min Scan# 294
Delta R.T. -0.00 min
Lab File: VX000551.D
Acq: 30 Mar 2018 08:34

Tgt Ion: 96 Resp: 111523
Ion Ratio Lower Upper
96 100
61 168.6 131.2 196.8
98 63.1 49.8 74.8





#13

Acrolein

Concen: 14.72 ug/l

RT: 2.18 min Scan# 262

Delta R.T. -0.12 min

Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

Instrument :

MSVOA_X

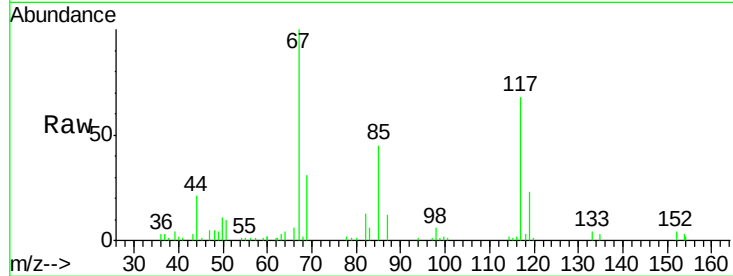
ClientSampled :

Tot Ion: 56 Resp: 23

Ion Ratio Lower Upper

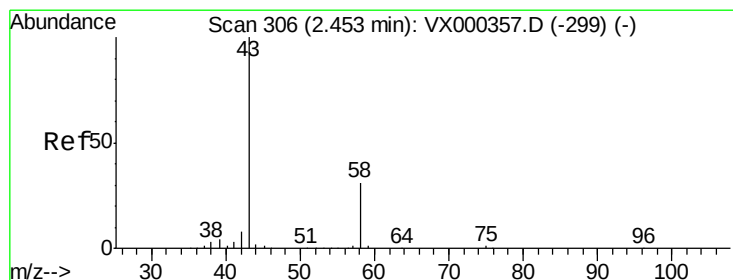
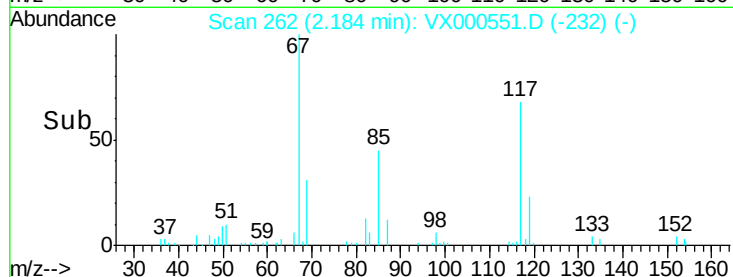
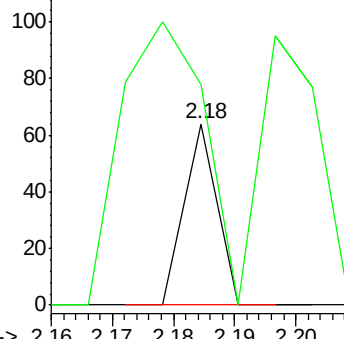
56 100

55 408.7 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.40 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000551.D

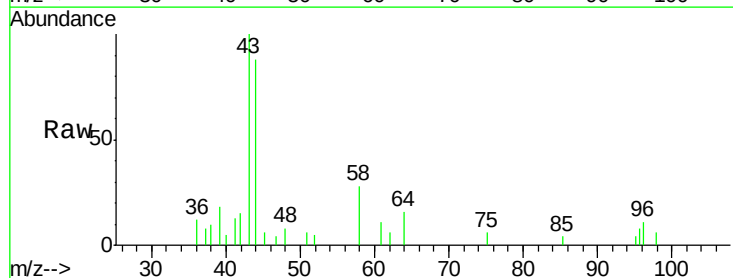
Acq: 30 Mar 2018 08:34

Tgt Ion: 43 Resp: 2701

Ion Ratio Lower Upper

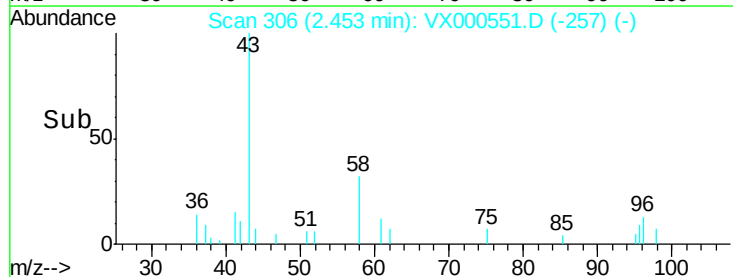
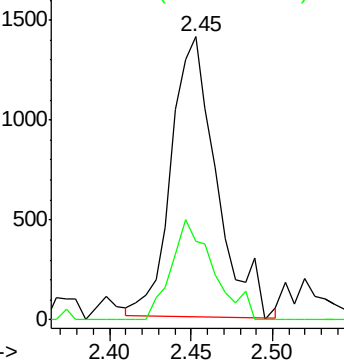
43 100

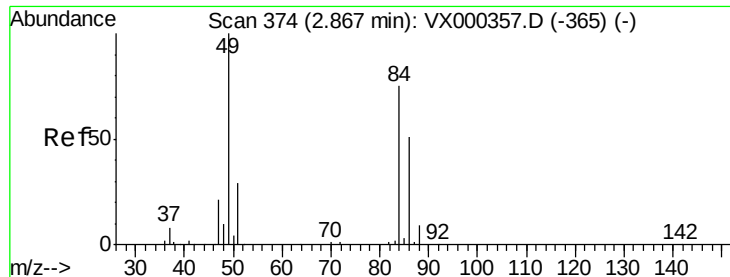
58 29.0 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

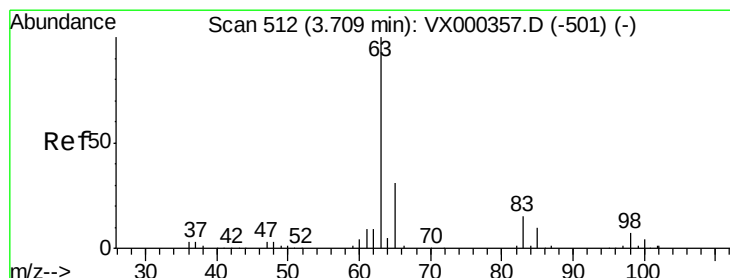
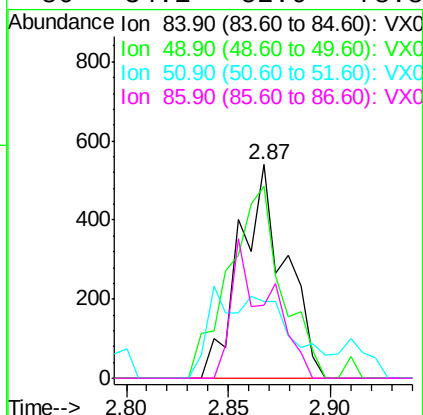
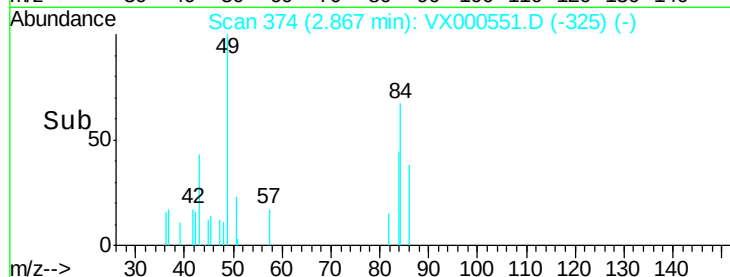
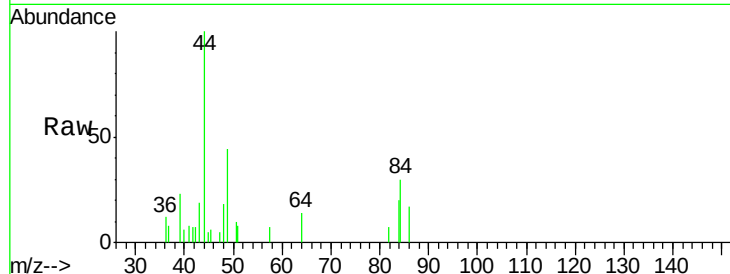




#20
Methylene Chloride
Concen: 0.65 ug/l
RT: 2.87 min Scan# 374
Delta R.T. -0.00 min
Lab File: VX000551.D
Acq: 30 Mar 2018 08:34

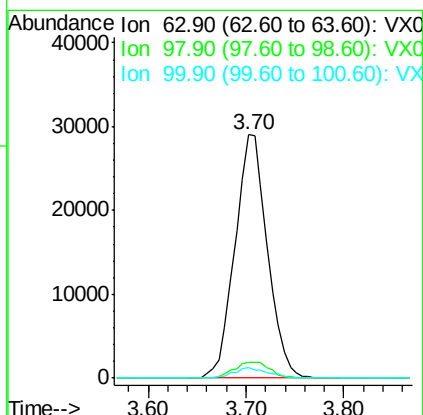
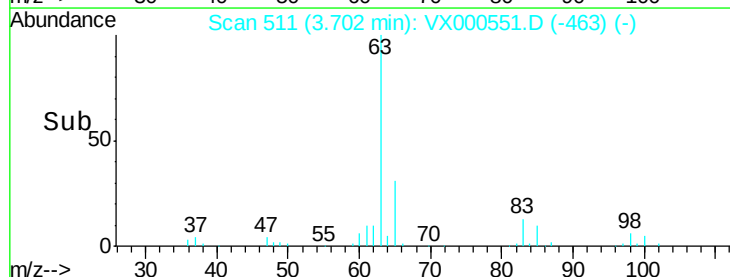
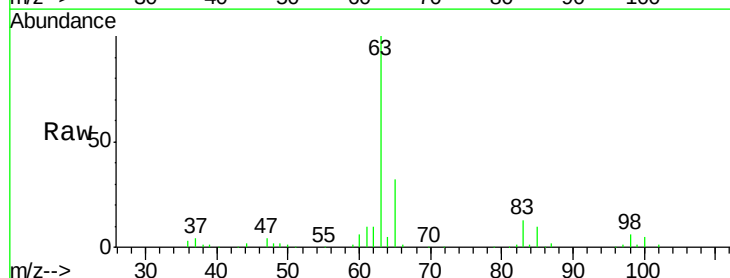
Instrument :
MSVOA_X
ClientSampled :

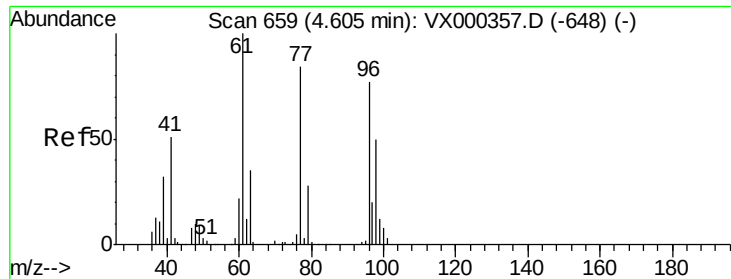
Tot Ion: 84 Resp: 843
Ion Ratio Lower Upper
84 100
49 90.0 100.6 151.0#
51 36.3 31.6 47.4
86 34.1 52.6 78.8#



#24
1,1-Dichloroethane
Concen: 30.30 ug/l
RT: 3.70 min Scan# 511
Delta R.T. -0.01 min
Lab File: VX000551.D
Acq: 30 Mar 2018 08:34

Tgt Ion: 63 Resp: 66896
Ion Ratio Lower Upper
63 100
98 6.5 3.3 9.9
100 4.6 2.0 5.8





#27

cis-1,2-Dichloroethene

Concen: 15.81 ug/l

RT: 4.60 min Scan# 659

Delta R.T. -0.00 min

Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

Instrument :

MSVOA_X

ClientSampled :

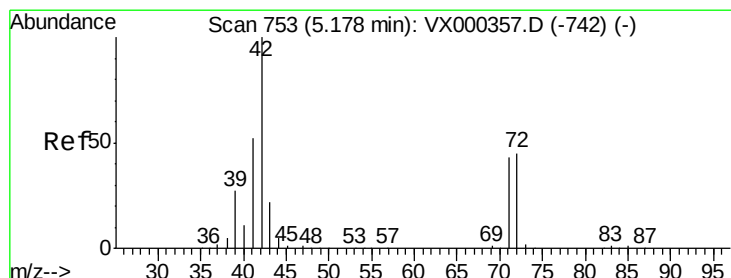
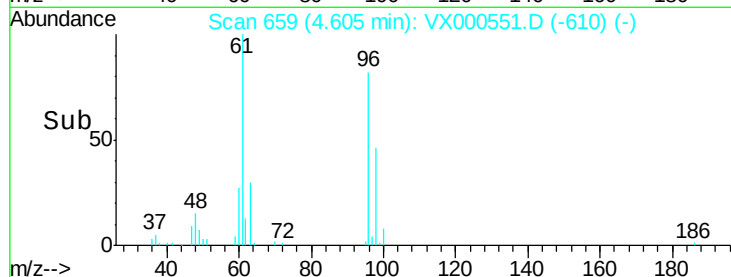
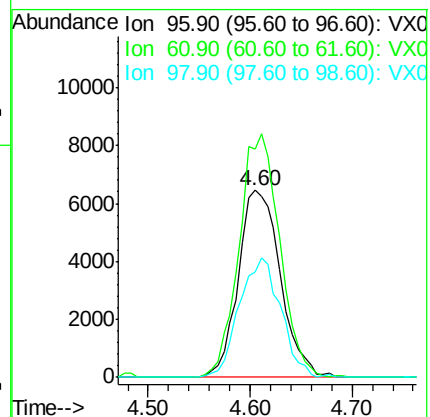
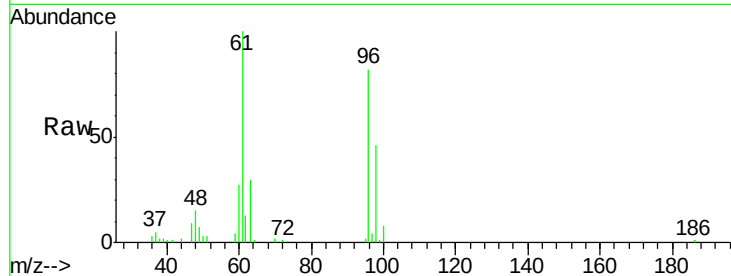
Tot Ion: 96 Resp: 18511

Ion Ratio Lower Upper

96 100

61 125.2 0.0 291.6

98 62.5 0.0 132.0



#29

Tetrahydrofuran

Concen: 0.20 ug/l

RT: 5.17 min Scan# 752

Delta R.T. -0.01 min

Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

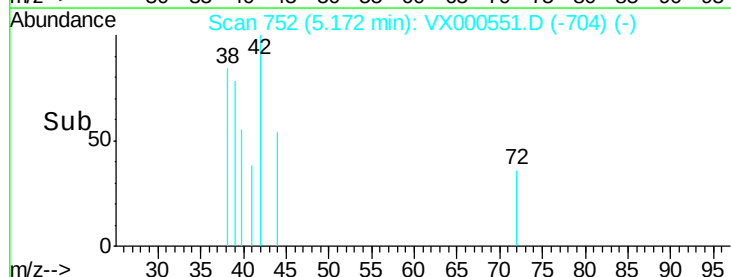
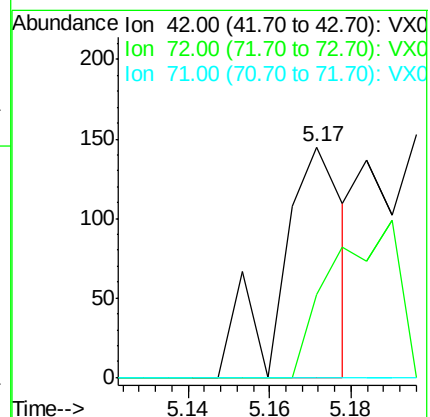
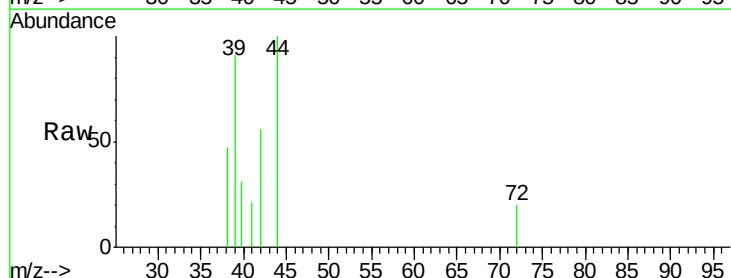
Tgt Ion: 42 Resp: 157

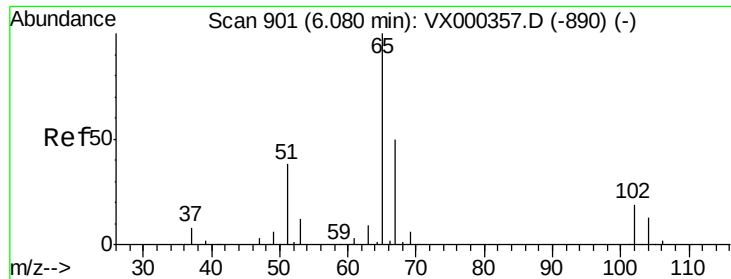
Ion Ratio Lower Upper

42 100

72 71.3 37.9 56.9#

71 0.0 34.4 51.6#

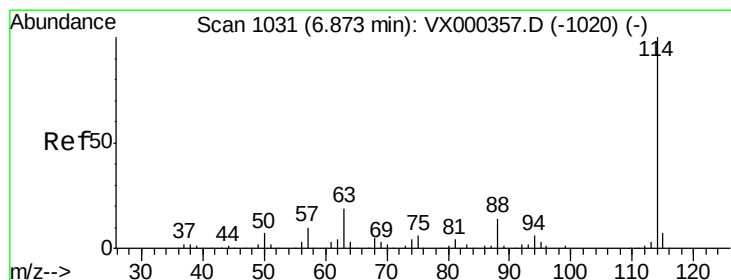
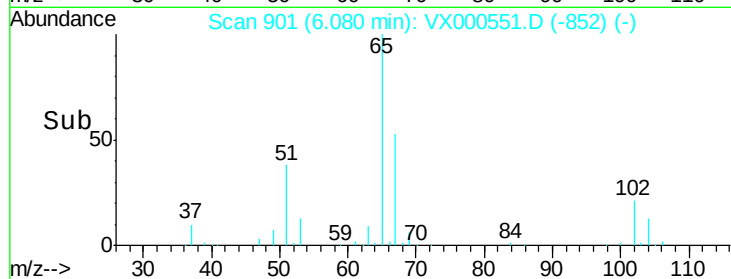
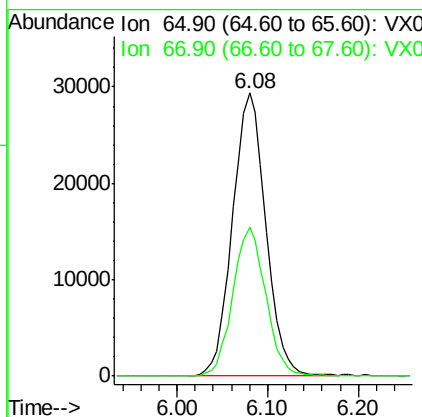
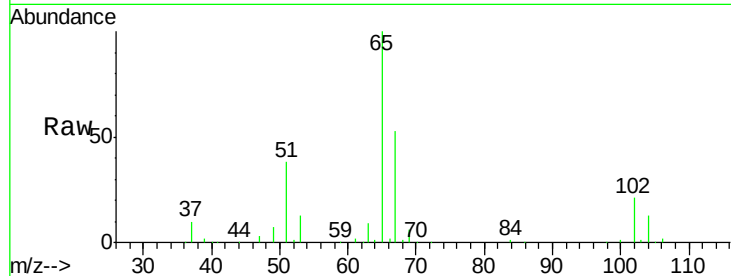




#33
 1,2-Dichloroethane-d4
 Concen: 55.54 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: VX000551.D
 Acq: 30 Mar 2018 08:34

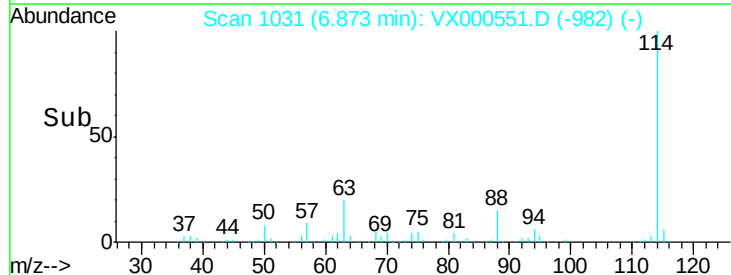
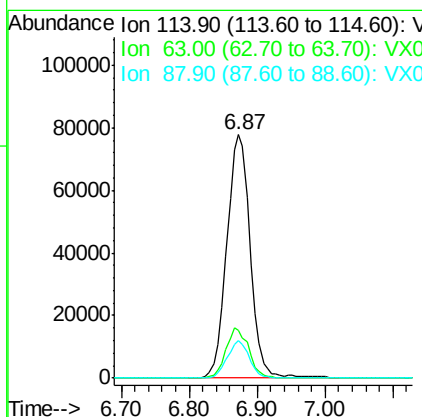
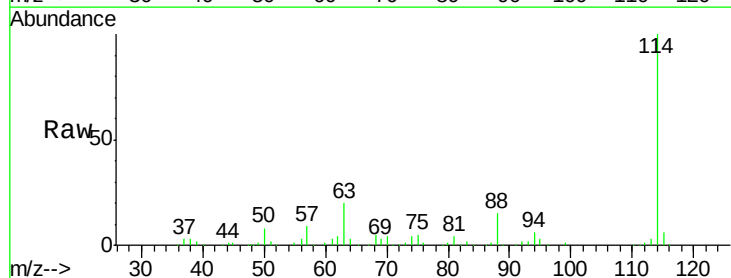
Instrument :
 MSVOA_X
 ClientSampleId :

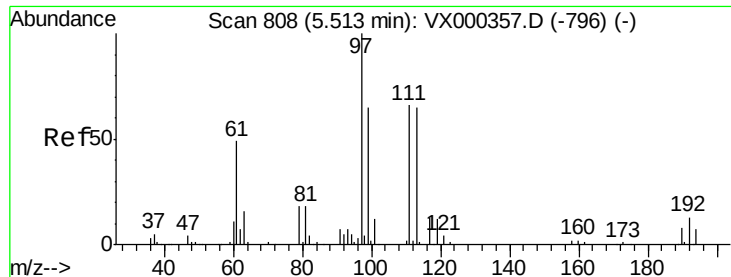
Tot Ion: 65 Resp: 75120
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000551.D
 Acq: 30 Mar 2018 08:34

Tgt Ion: 114 Resp: 185325
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 38.4
 88 15.3 0.0 27.0

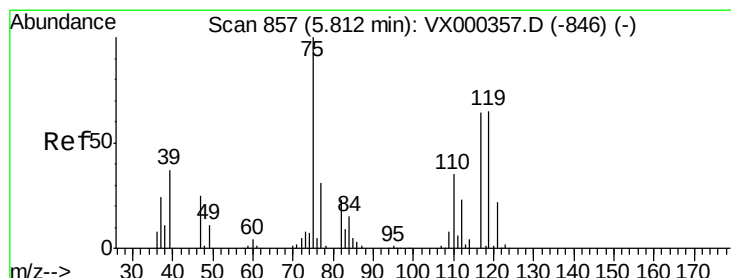
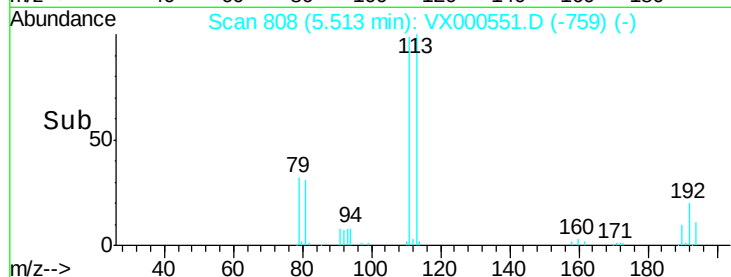
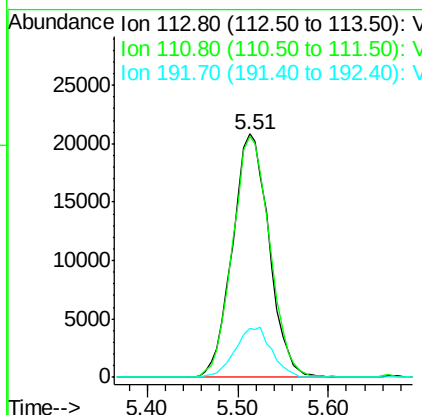
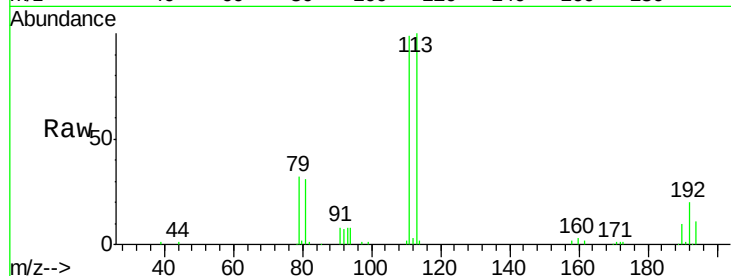




#35
 Dibromofluoromethane
 Concen: 50.02 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX000551.D
 Acq: 30 Mar 2018 08:34

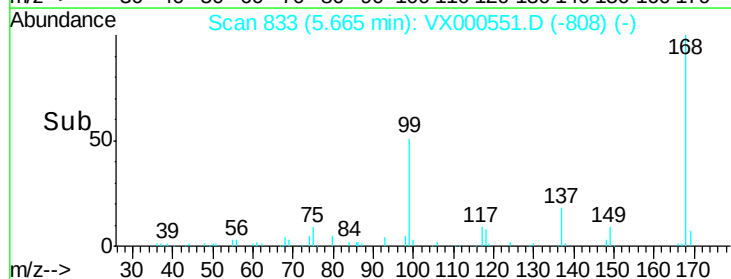
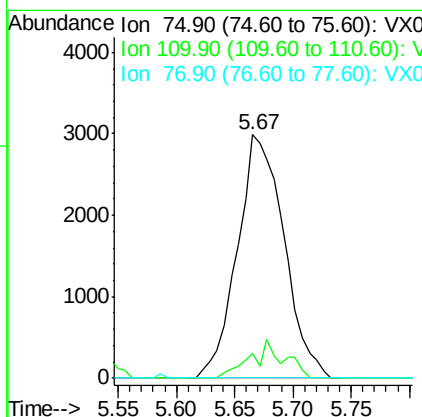
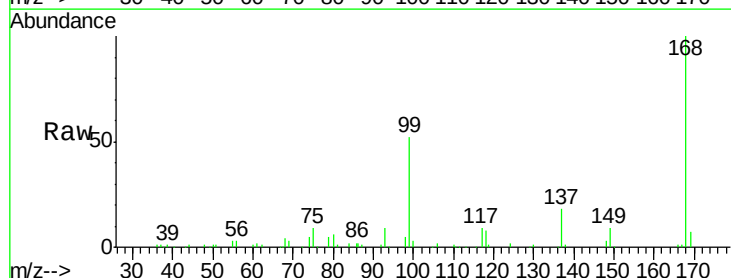
Instrument :
 MSVOA_X
 ClientSampled :

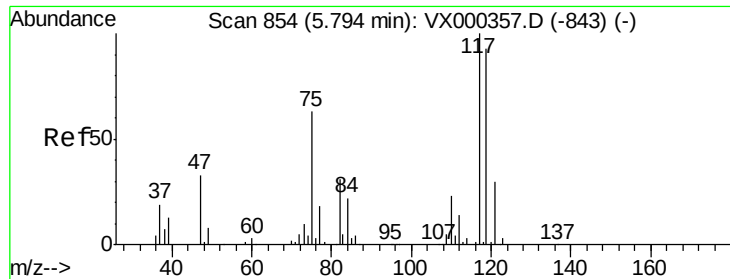
Tot Ion:113 Resp: 58407
 Ion Ratio Lower Upper
 113 100
 111 100.6 82.4 123.6
 192 20.5 15.8 23.6



#36
 1,1-Dichloropropene
 Concen: 4.80 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.15 min
 Lab File: VX000551.D
 Acq: 30 Mar 2018 08:34

Tgt Ion: 75 Resp: 8335
 Ion Ratio Lower Upper
 75 100
 110 8.4 17.9 53.7#
 77 0.0 24.0 36.0#





#38

Carbon Tetrachloride

Concen: 5.96 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

Instrument :

MSVOA_X

ClientSampleId :

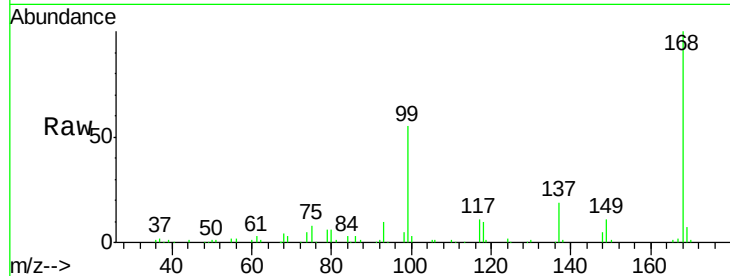
Tot Ion:117 Resp: 10857

Ion Ratio Lower Upper

117 100

119 5.3 77.4 116.2#

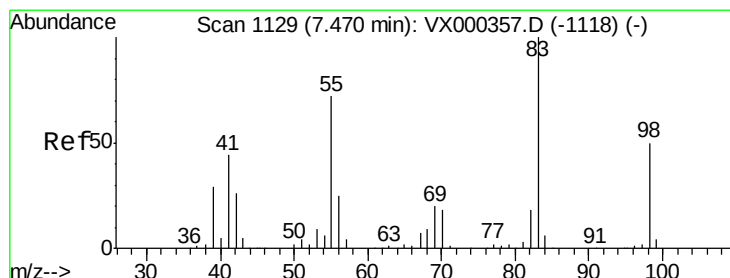
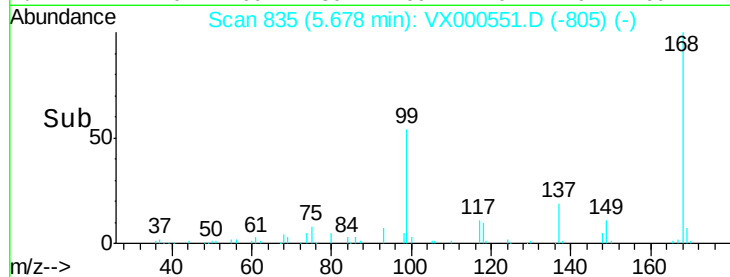
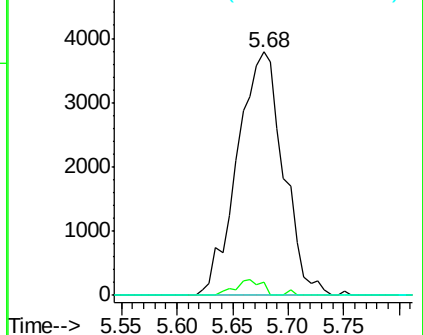
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.22 ug/l

RT: 7.46 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

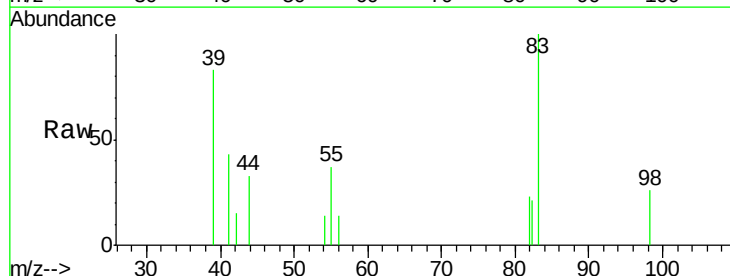
Tgt Ion: 83 Resp: 463

Ion Ratio Lower Upper

83 100

55 37.4 55.5 83.3#

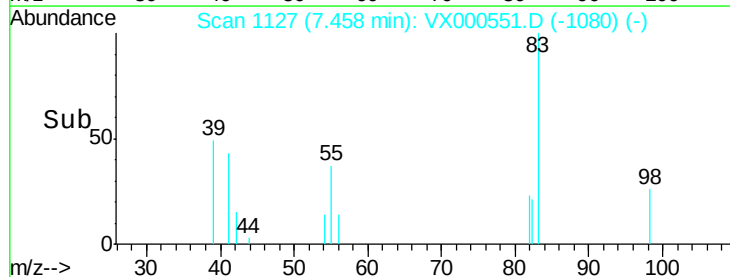
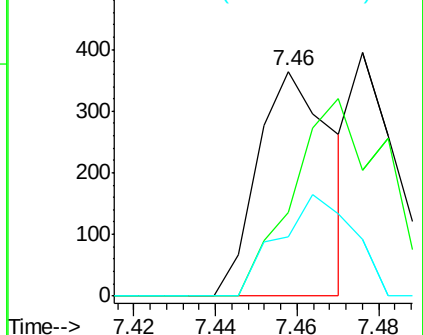
98 26.4 38.2 57.4#

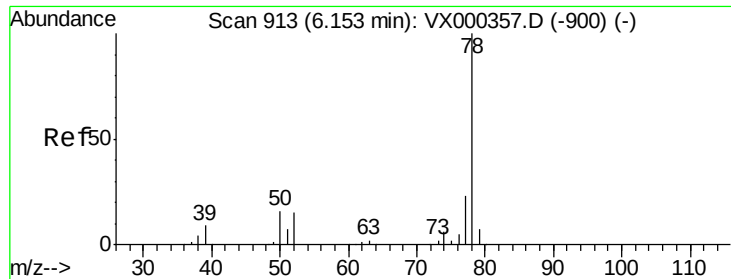


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 0.59 ug/l

RT: 6.16 min Scan# 914

Delta R.T. 0.01 min

Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

Instrument :

MSVOA_X

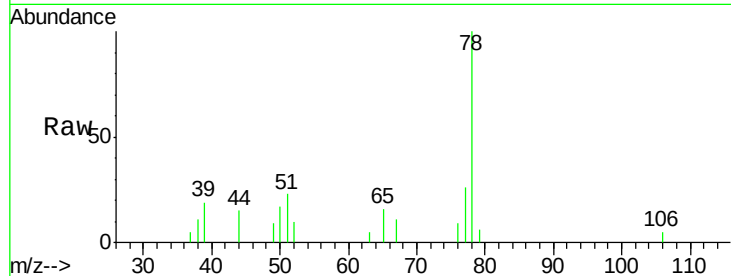
ClientSampled :

Tot Ion: 78 Resp: 2972

Ion Ratio Lower Upper

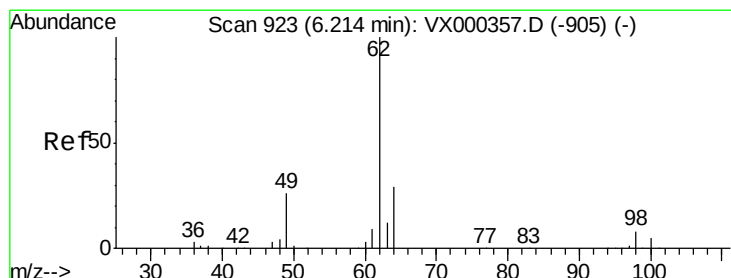
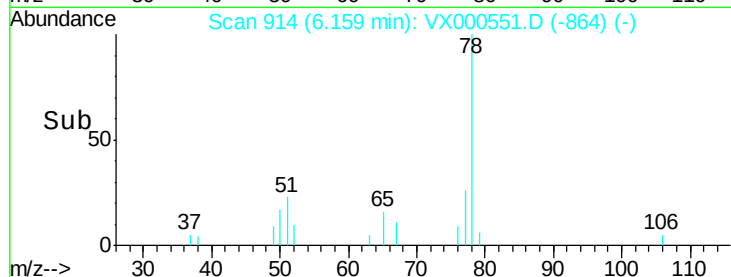
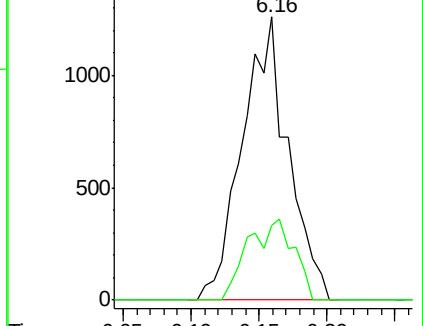
78 100

77 26.4 18.7 28.1



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#42

1,2-Dichloroethane

Concen: 1.91 ug/l

RT: 6.21 min Scan# 923

Delta R.T. -0.00 min

Lab File: VX000551.D

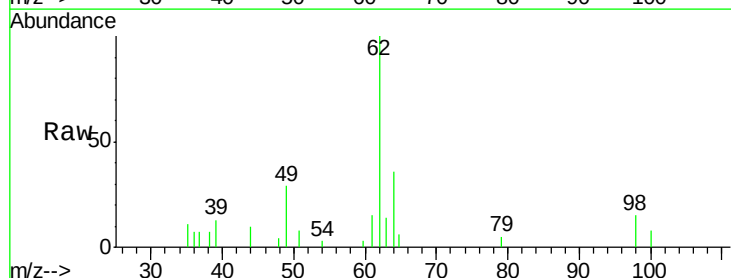
Acq: 30 Mar 2018 08:34

Tgt Ion: 62 Resp: 3781

Ion Ratio Lower Upper

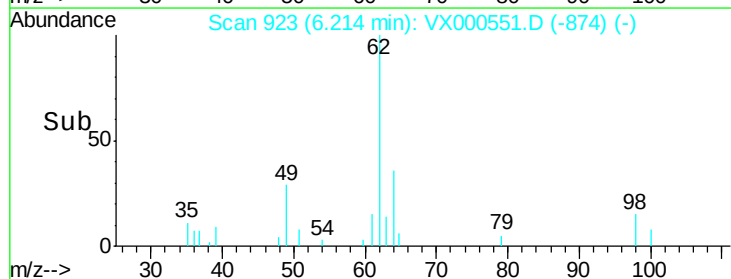
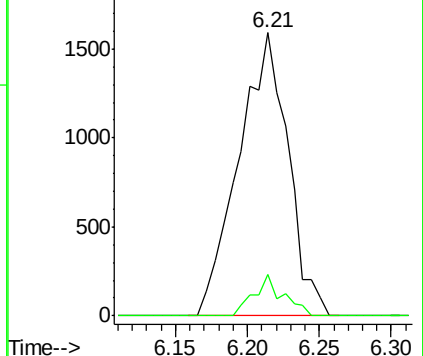
62 100

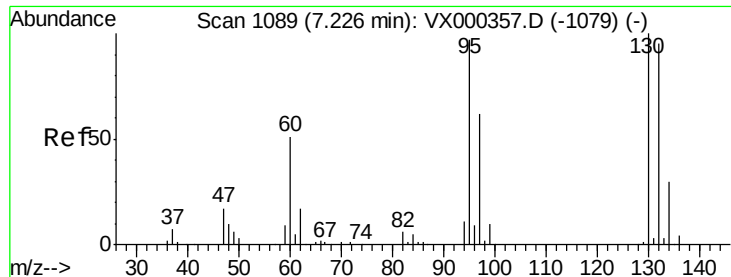
98 8.4 0.0 15.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

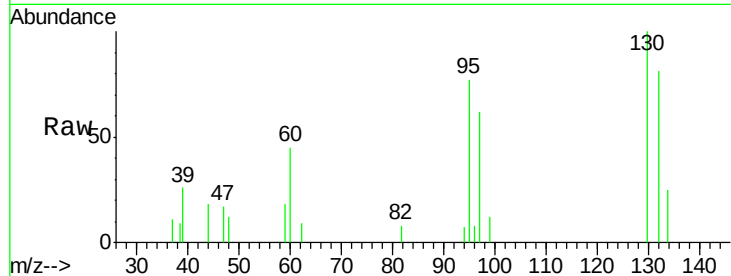




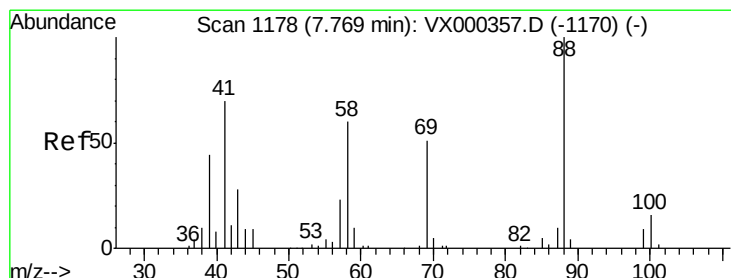
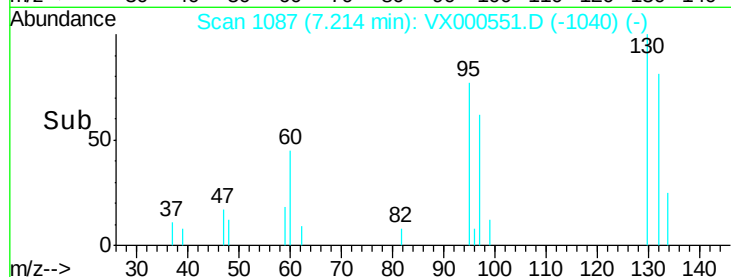
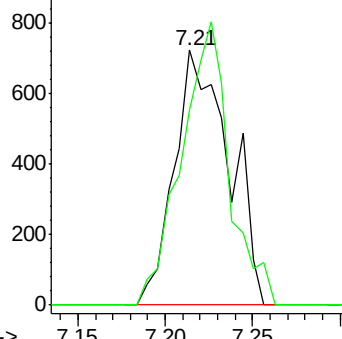
#44
 Trichloroethene
 Concen: 1.10 ug/l
 RT: 7.21 min Scan# 1087
 Delta R.T. -0.01 min
 Lab File: VX000551.D
 Acq: 30 Mar 2018 08:34

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:130 Resp: 1586
 Ion Ratio Lower Upper
 130 100
 95 76.5 0.0 186.0

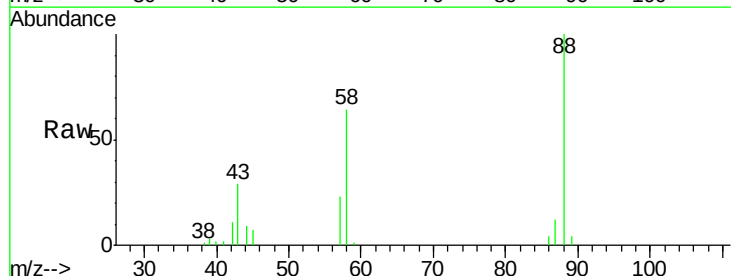


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

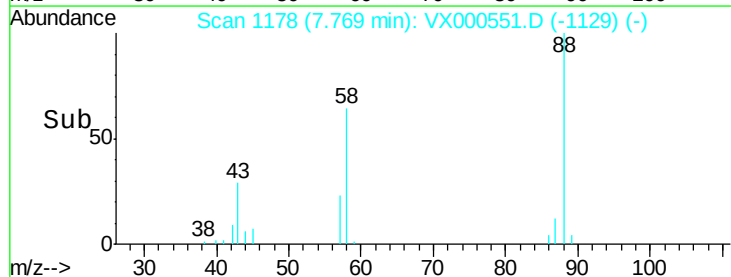
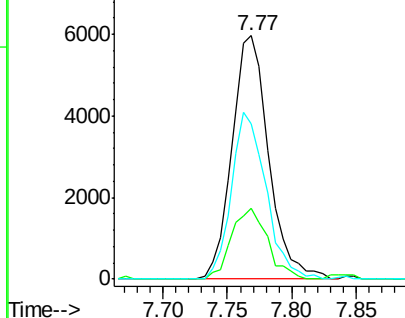


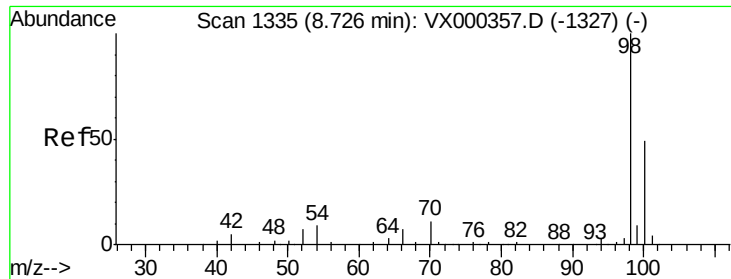
#49
 1,4-Dioxane
 Concen: 328.23 ug/l
 RT: 7.77 min Scan# 1178
 Delta R.T. -0.00 min
 Lab File: VX000551.D
 Acq: 30 Mar 2018 08:34

Tgt Ion: 88 Resp: 11823
 Ion Ratio Lower Upper
 88 100
 43 28.7 26.8 40.2
 58 64.5 52.2 78.2



Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.06 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

Instrument :

MSVOA_X

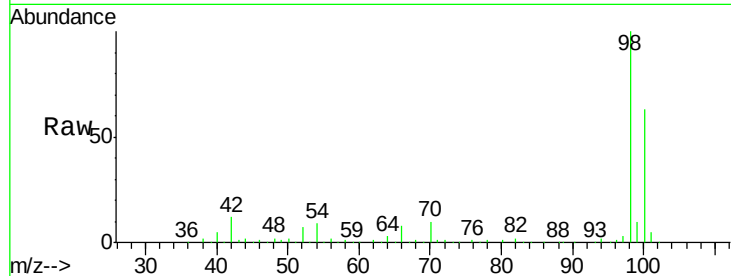
ClientSampleId :

Tot Ion: 98 Resp: 237262

Ion Ratio Lower Upper

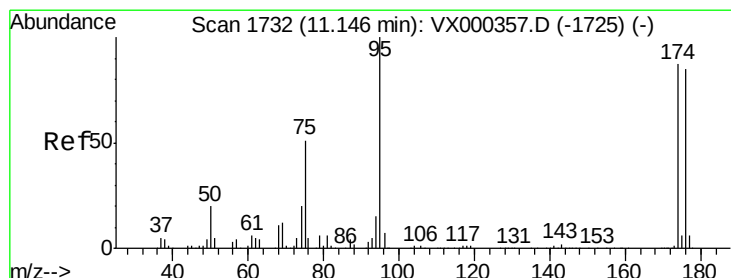
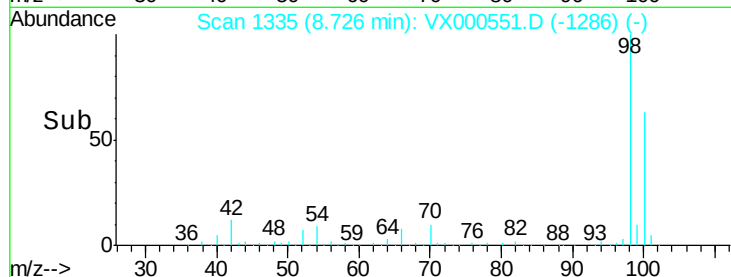
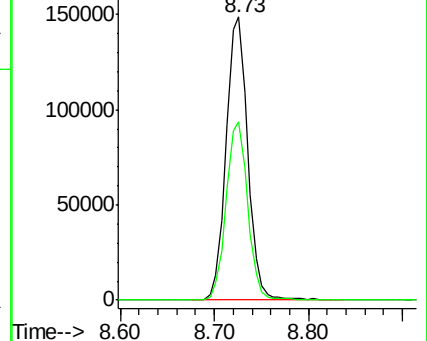
98 100

100 62.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 41.71 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

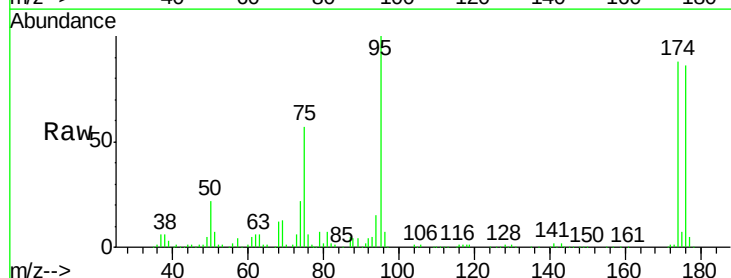
Tgt Ion: 95 Resp: 82864

Ion Ratio Lower Upper

95 100

174 90.4 0.0 173.6

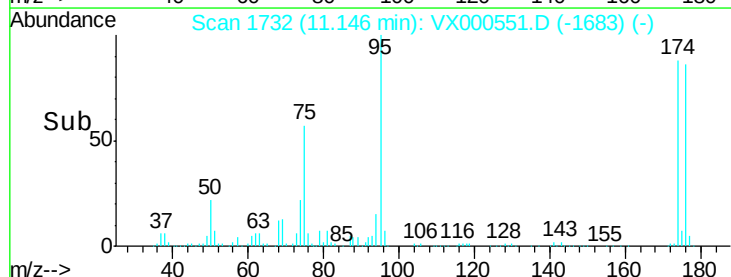
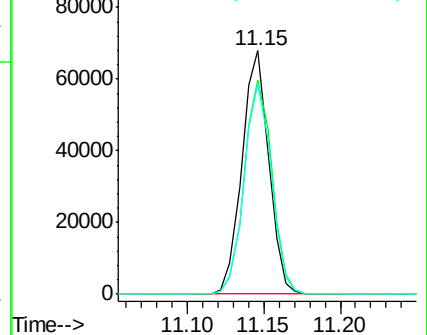
176 87.7 0.0 164.6

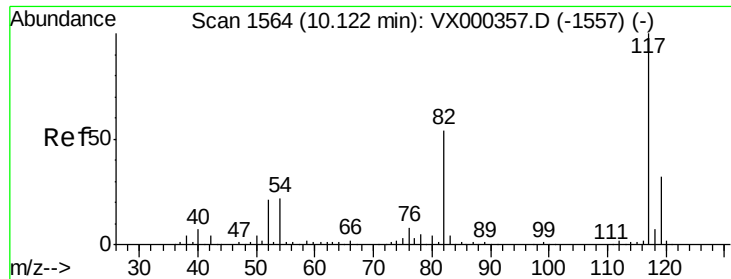


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

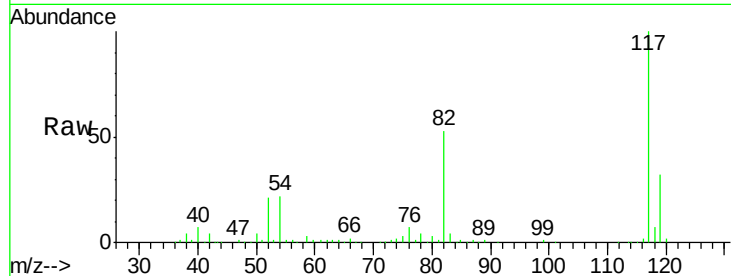




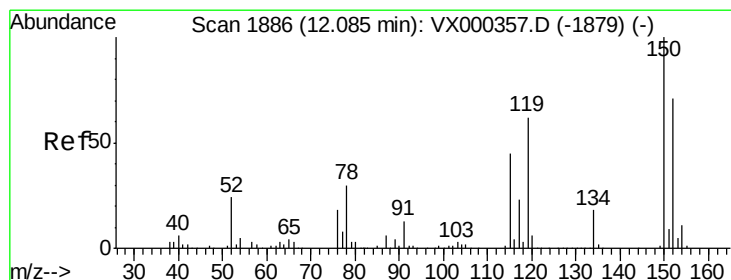
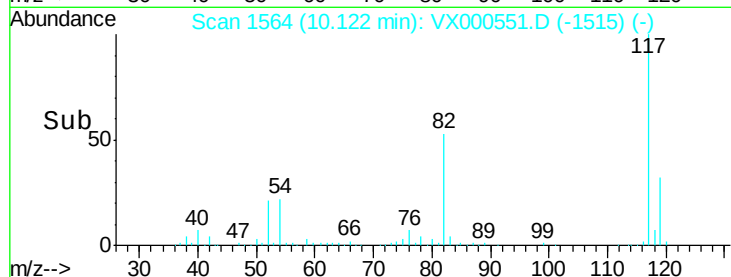
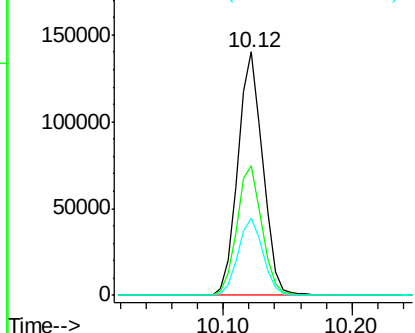
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000551.D
Acq: 30 Mar 2018 08:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 188267
Ion Ratio Lower Upper
117 100
82 53.4 43.8 65.8
119 31.7 24.9 37.3

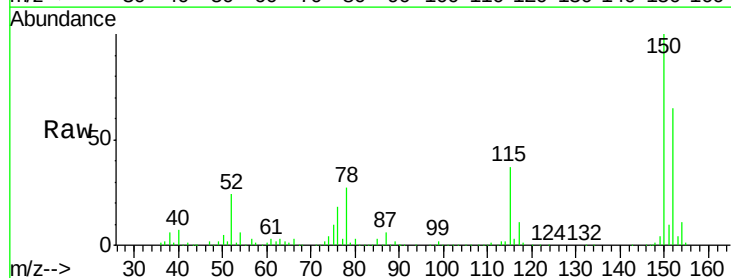


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

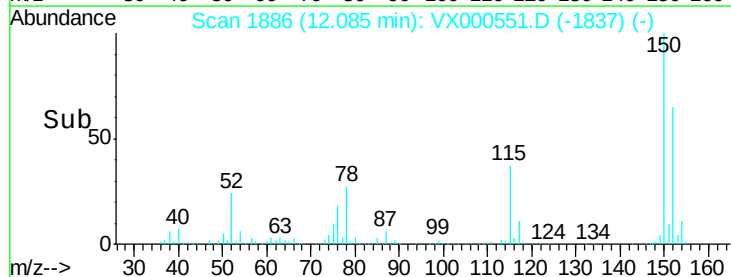
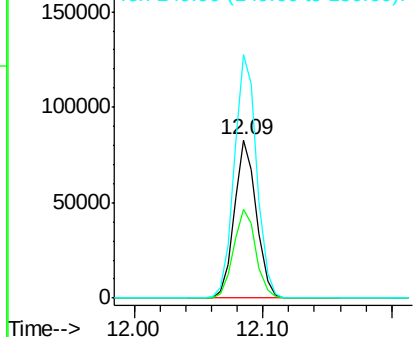


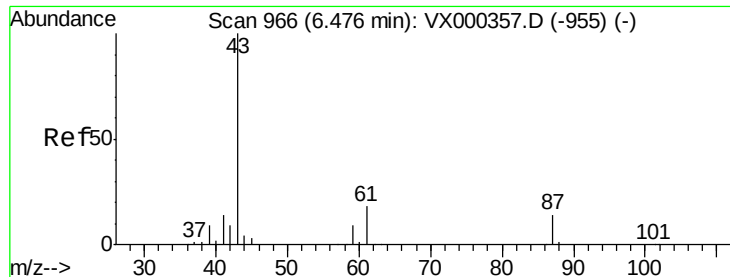
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX000551.D
Acq: 30 Mar 2018 08:34

Tgt Ion:152 Resp: 98702
Ion Ratio Lower Upper
152 100
115 56.5 39.8 119.3
150 156.9 0.0 344.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

Instrument :

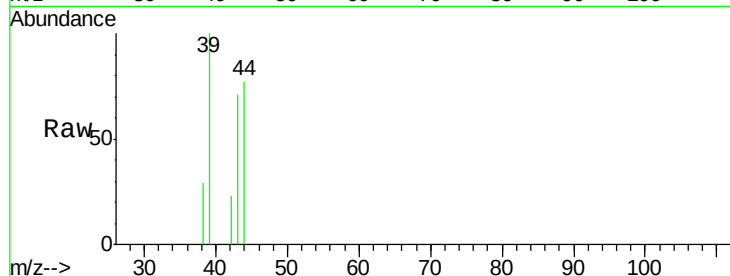
MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 232

Ion Ratio Lower Upper

43	100		
70	0.0	0.0	0.0
55	0.0	0.0	0.0
61	0.0	14.4	21.6#

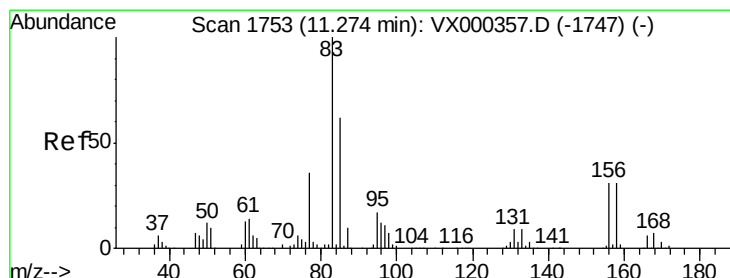
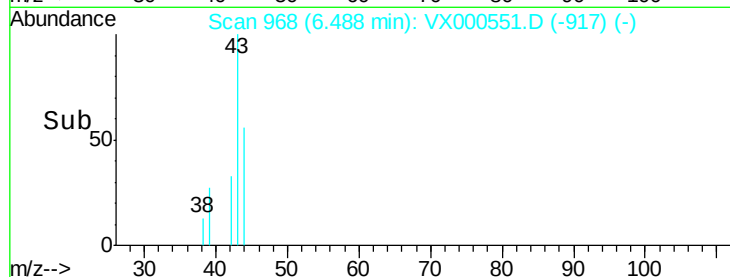
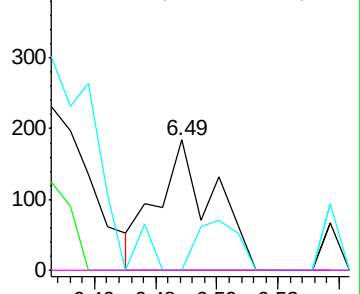


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#75

1,1,2,2-Tetrachloroethane

Concen: 0.32 ug/l

RT: 11.15 min Scan# 1733

Delta R.T. -0.12 min

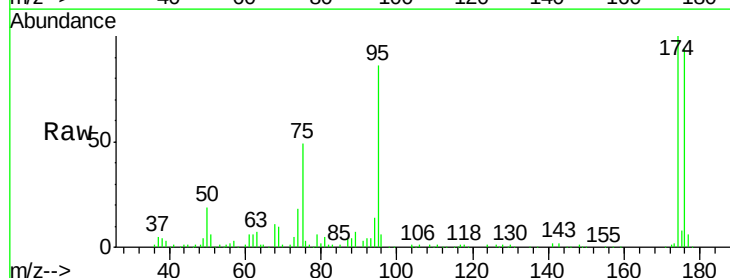
Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

Tgt Ion: 83 Resp: 750

Ion Ratio Lower Upper

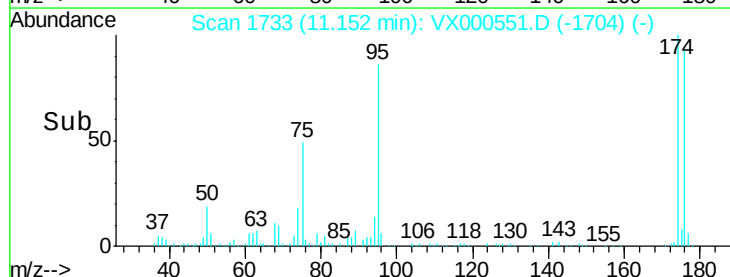
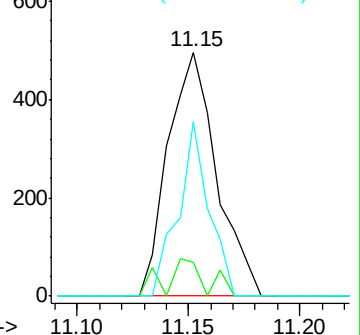
83	100		
131	12.5	5.0	14.9
85	45.6	32.5	97.5

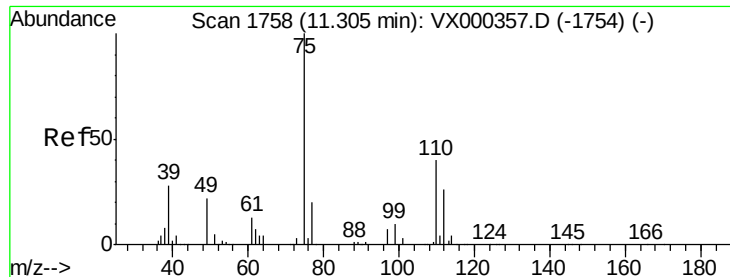


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 22.58 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

Instrument :

MSVOA_X

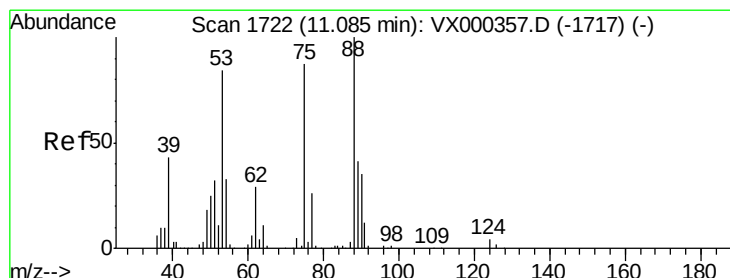
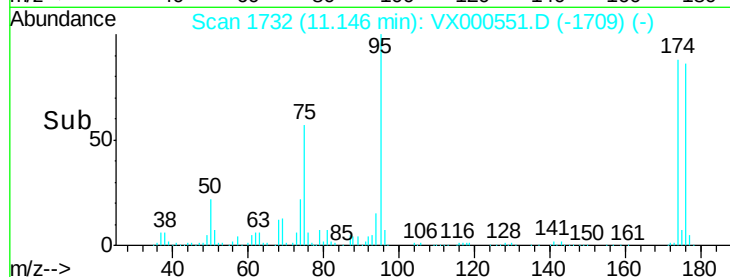
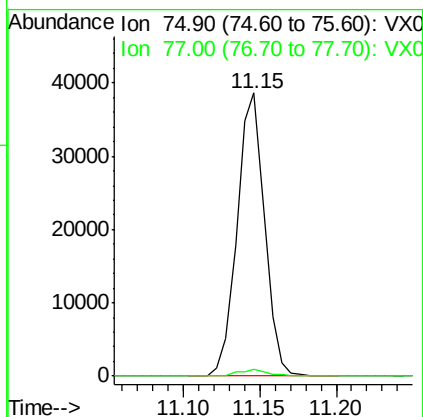
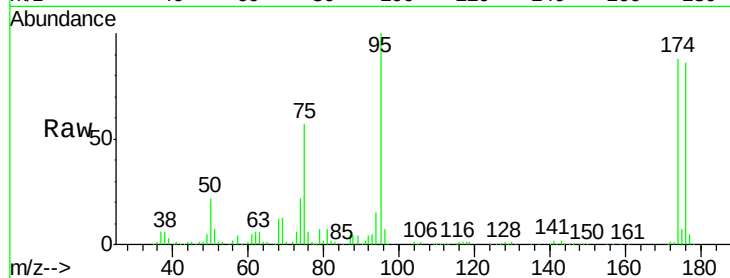
ClientSampleId :

Tot Ion: 75 Resp: 47902

Ion Ratio Lower Upper

75 100

77 2.5 21.4 64.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.11 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000551.D

Acq: 30 Mar 2018 08:34

Tgt Ion: 75 Resp: 47902

Ion Ratio Lower Upper

75 100

53 2.1 80.7 121.1#

89 9.2 39.4 59.0#

