

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070318\
 Data File : VX003161.D
 Acq On : 03 Jul 2018 20:47
 Operator : JC/MD
 Sample : J3813-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 04 03:19:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	265678	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	364746	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	347636	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	196952	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	173355	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
35) Dibromofluoromethane	5.51	113	143169	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
50) Toluene-d8	8.72	98	515813	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
62) 4-Bromofluorobenzene	11.14	95	182520	44.87	ug/l	0.00
Spiked Amount			Recovery	=	89.74%	

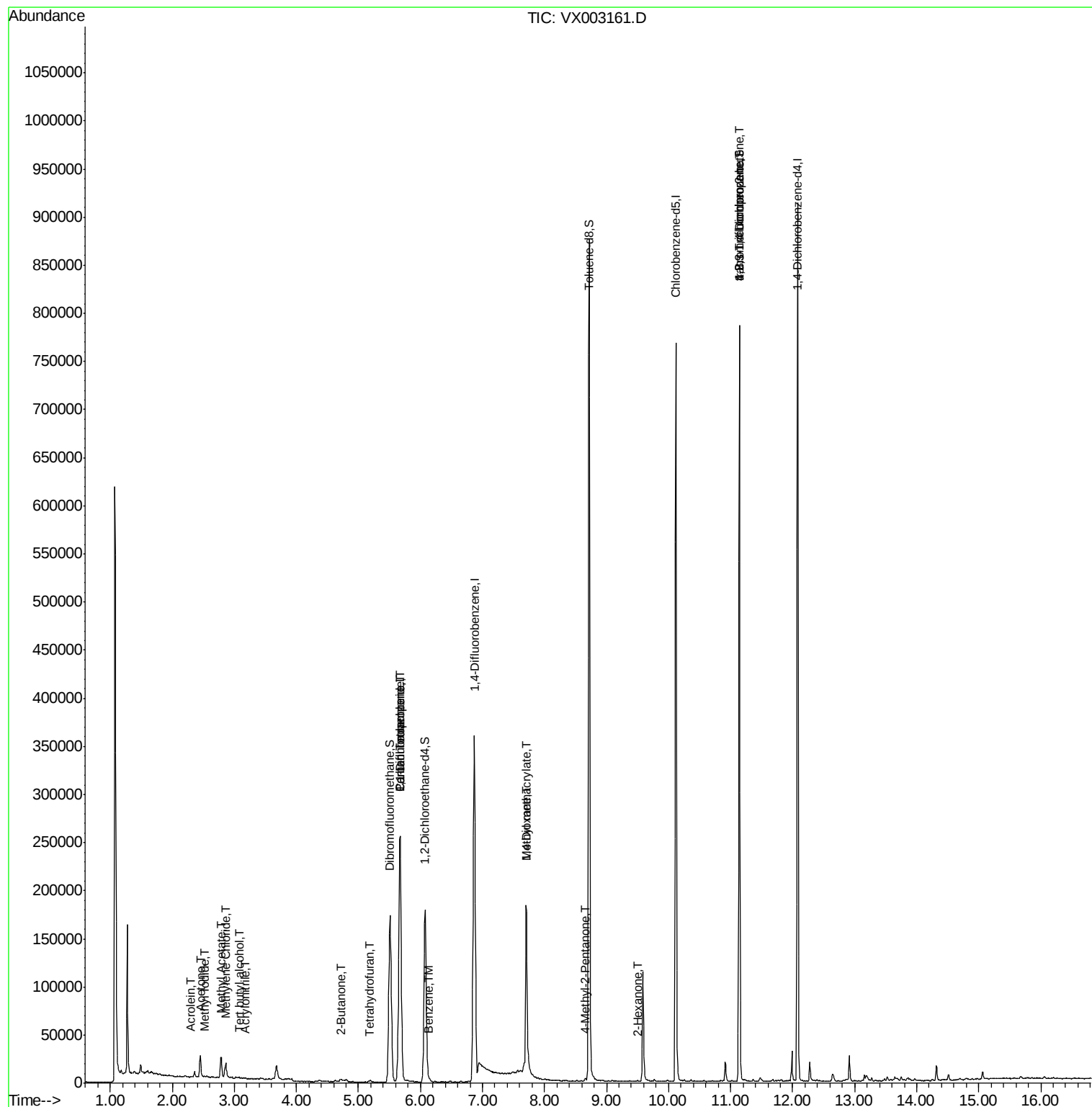
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	24	Below Cal	#	43
3) Chloromethane	1.33	50	605	Below Cal	#	1
5) Bromomethane	1.66	94	1789	Below Cal		98
6) Chloroethane	1.71	64	753	Below Cal	#	48
10) Methyl Iodide	2.52	142	1444	6.65	ug/l	# 97
11) Tert butyl alcohol	3.07	59	1344	1.84	ug/l	# 57
13) Acrolein	2.30	56	548	5.56	ug/l	87
15) Acrylonitrile	3.17	53	386	0.25	ug/l	# 56
16) Acetone	2.45	43	23661	15.56	ug/l	96
18) Methyl Acetate	2.78	43	26691	6.28	ug/l	97
20) Methylene Chloride	2.86	84	7270	2.46	ug/l	97
25) 2-Butanone	4.71	43	5001	2.22	ug/l	95
29) Tetrahydrofuran	5.18	42	1478	1.02	ug/l	# 93
36) 1,1-Dichloropropene	5.67	75	17311	4.33	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	23324	5.31	ug/l	# 16
40) Benzene	6.14	78	2819	0.24	ug/l	95
48) Methyl methacrylate	7.70	41	5882	1.58	ug/l	# 16
49) 1,4-Dioxane	7.71	88	25	0.35	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.66	43	1798	0.40	ug/l	# 83
59) 2-Hexanone	9.51	43	769	0.22	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	92154	25.83	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	92154	73.27	ug/l	# 7

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

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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: VX003161.D

Acq: 03 Jul 2018 20:47

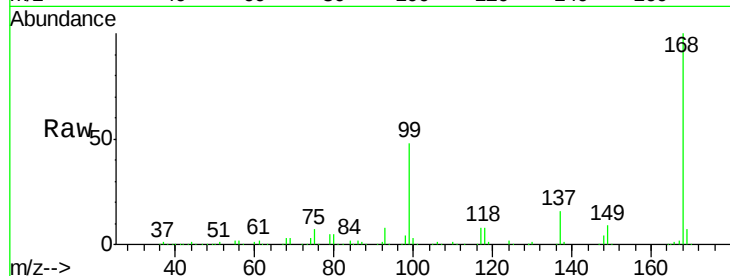
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 265678

Ion Ratio Lower Upper

168 100

99 48.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

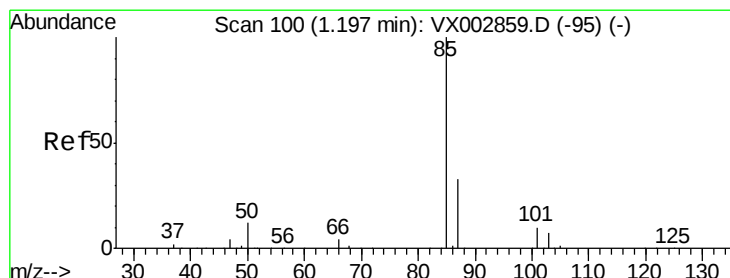
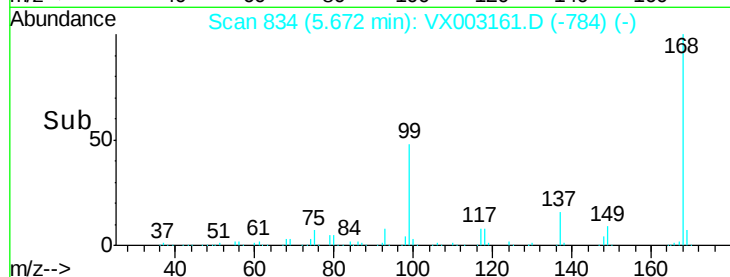
40000

20000

0

Time-->

5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX003161.D

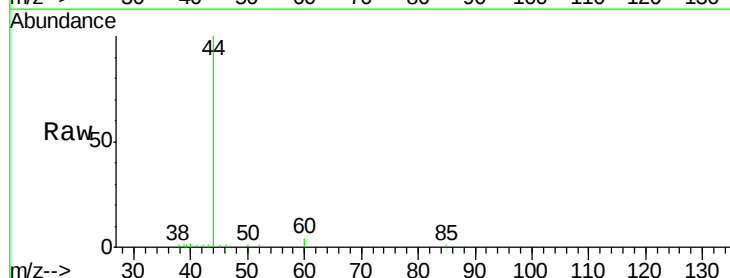
Acq: 03 Jul 2018 20:47

Tgt Ion: 85 Resp: 24

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

60

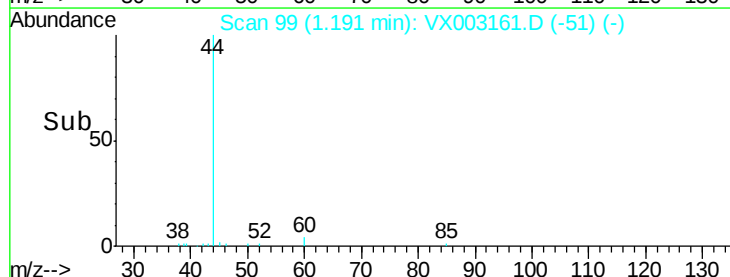
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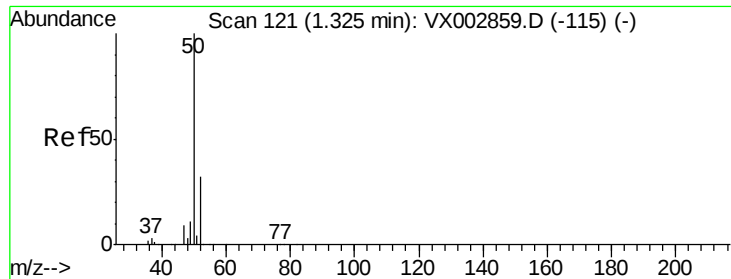
20

0

Time-->

1.17 1.18 1.19 1.20 1.21





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003161.D

Acq: 03 Jul 2018 20:47

Instrument :

MSVOA_X

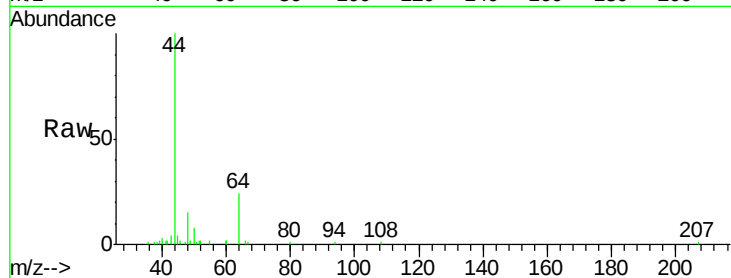
ClientSampled :

Tot Ion: 50 Resp: 605

Ion Ratio Lower Upper

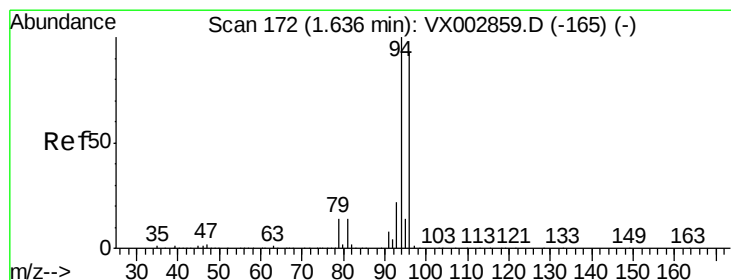
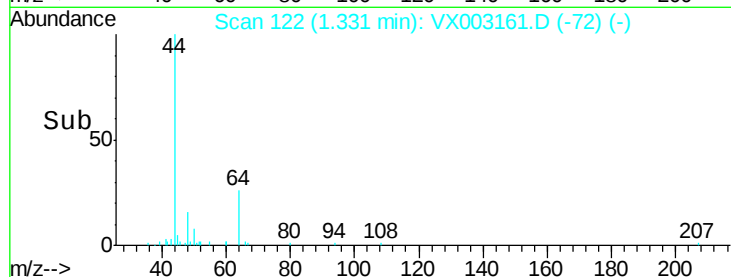
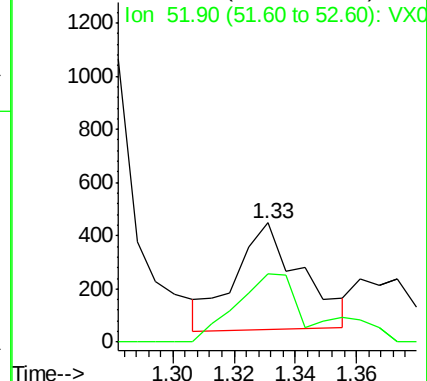
50 100

52 88.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003161.D

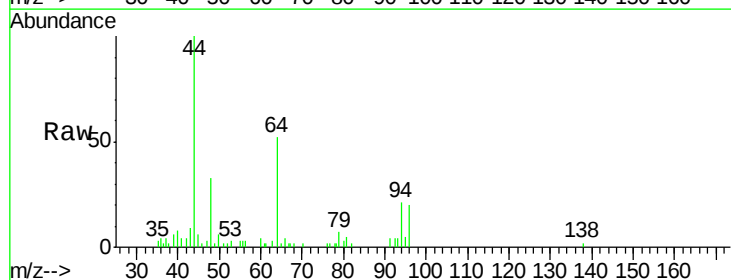
Acq: 03 Jul 2018 20:47

Tgt Ion: 94 Resp: 1789

Ion Ratio Lower Upper

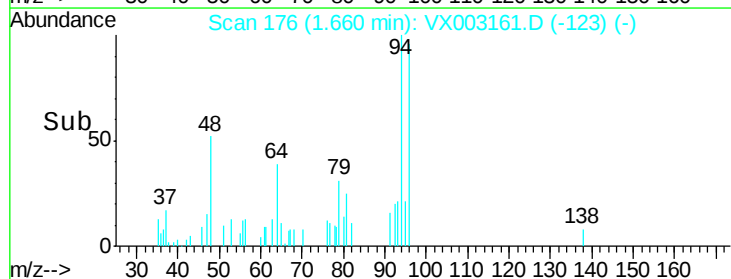
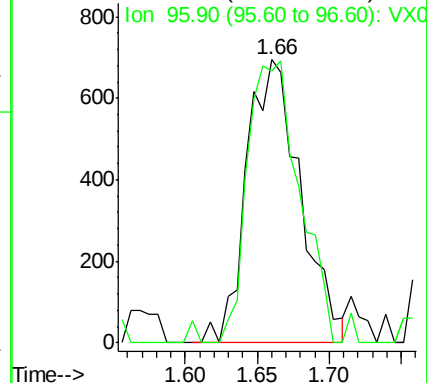
94 100

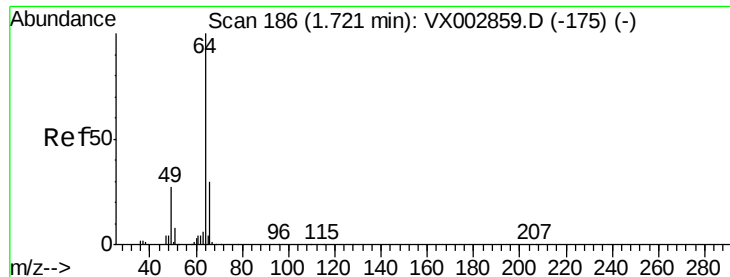
96 96.0 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX003161.D

Acq: 03 Jul 2018 20:47

Instrument :

MSVOA_X

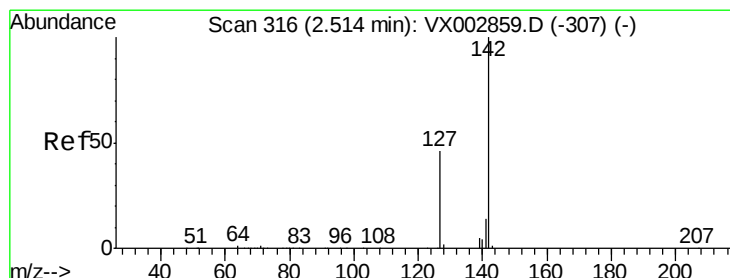
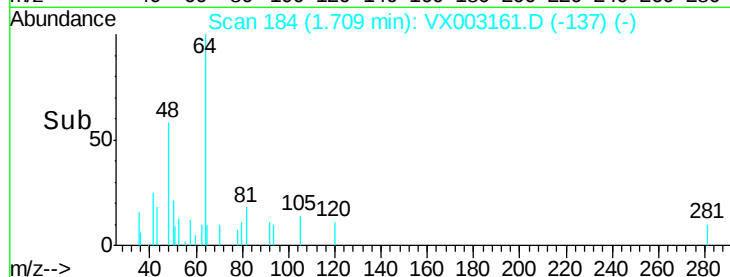
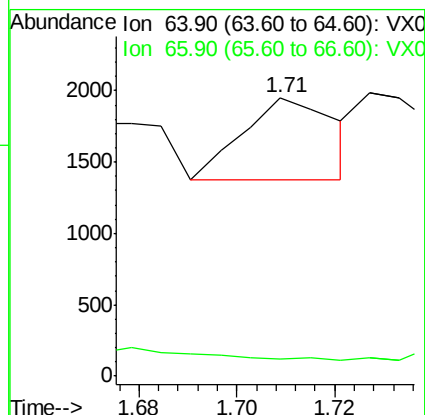
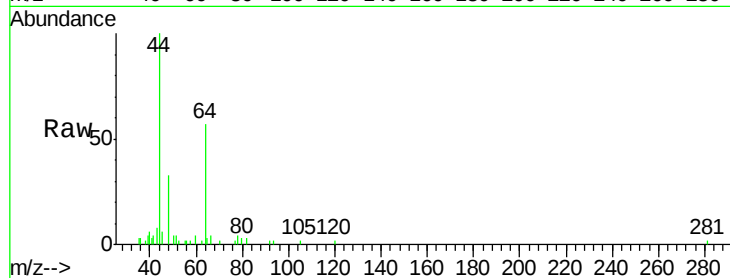
ClientSampleId :

Tot Ion: 64 Resp: 753

Ion Ratio Lower Upper

64 100

66 2.8 25.5 38.3#



#10

Methyl Iodide

Concen: 6.65 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003161.D

Acq: 03 Jul 2018 20:47

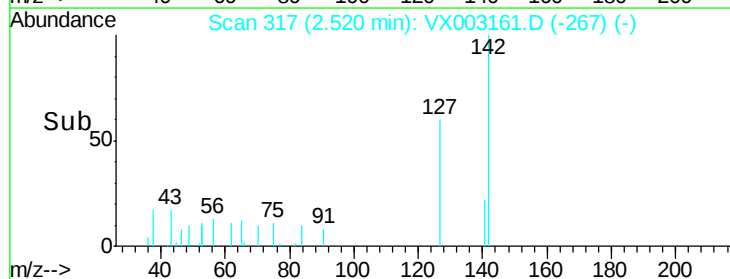
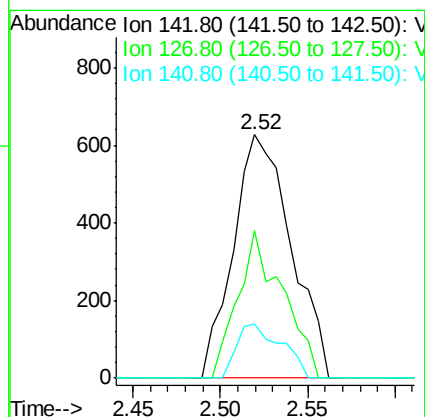
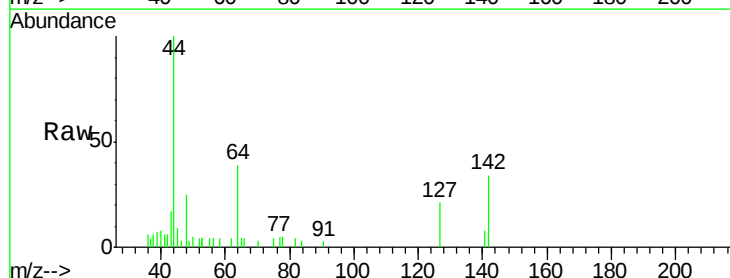
Tgt Ion: 142 Resp: 1444

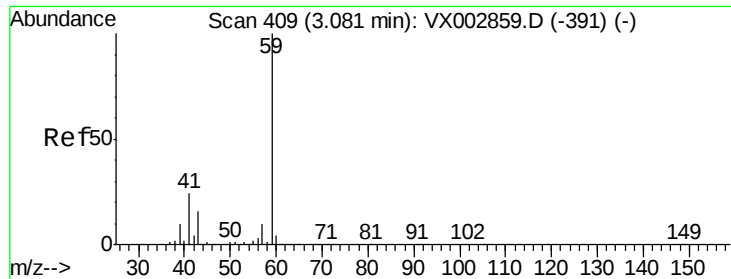
Ion Ratio Lower Upper

142 100

127 46.9 36.6 55.0

141 17.1 11.3 16.9#



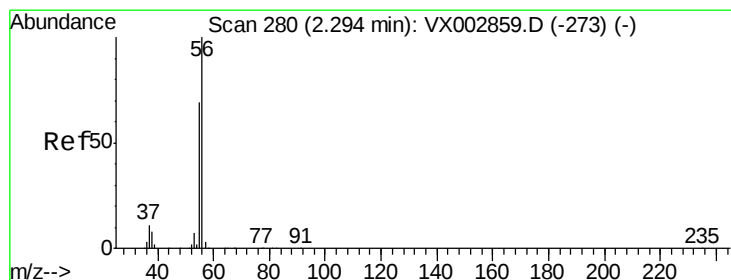
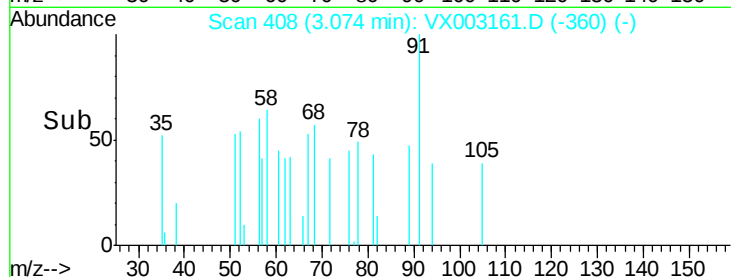
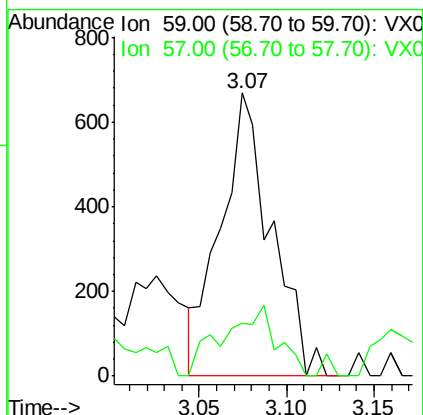
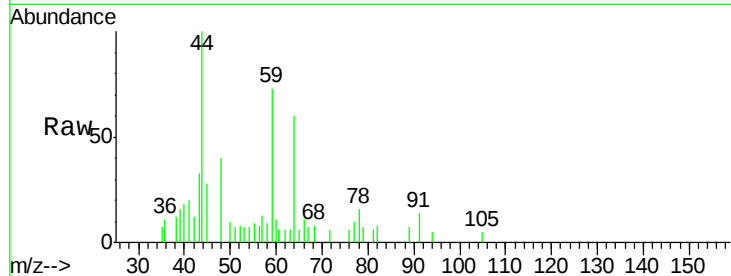


#11

Tert butyl alcohol
 Concen: 1.84 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VX003161.D
 Acq: 03 Jul 2018 20:47

Instrument :
 MSVOA_X
 ClientSampled :

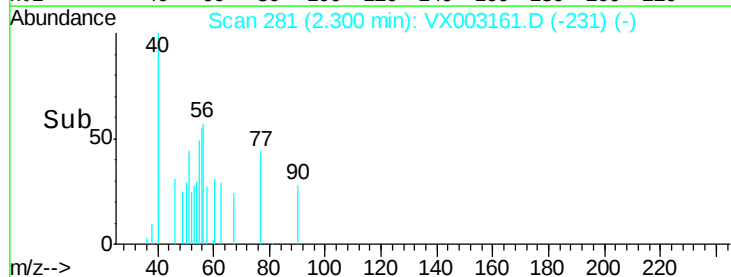
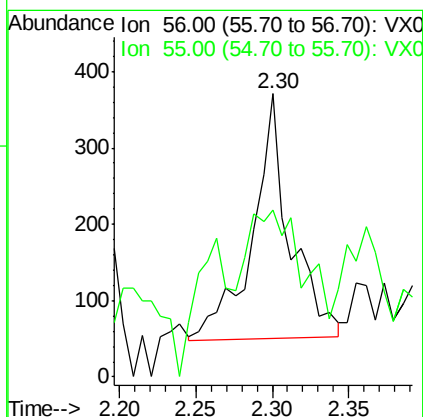
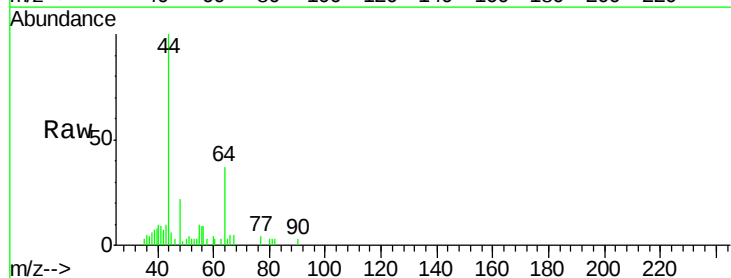
Tot Ion: 59 Resp: 1344
 Ion Ratio Lower Upper
 59 100
 57 26.3 8.2 12.2#

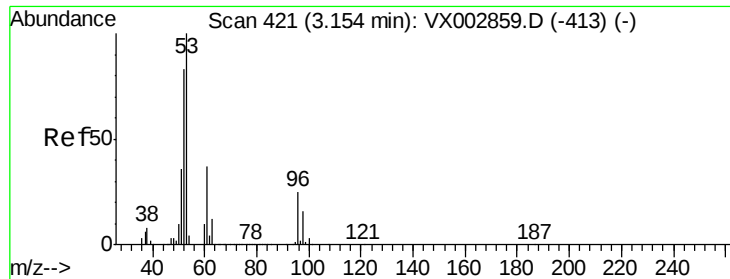


#13

Acrolein
 Concen: 5.56 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX003161.D
 Acq: 03 Jul 2018 20:47

Tgt Ion: 56 Resp: 548
 Ion Ratio Lower Upper
 56 100
 55 60.0 57.0 85.4

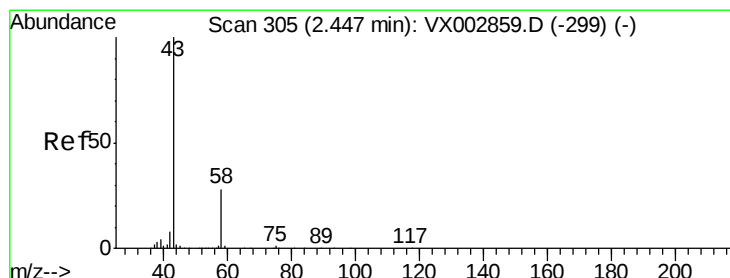
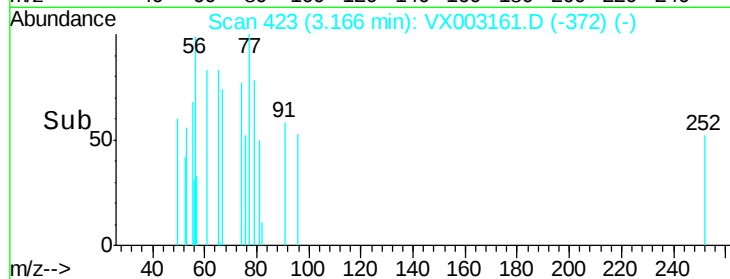
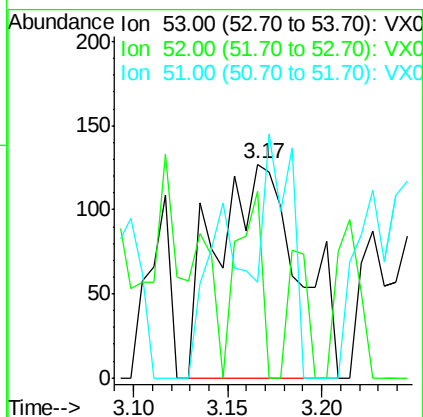
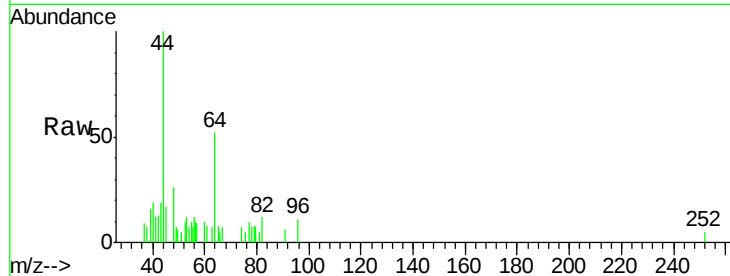




#15
 Acrylonitrile
 Concen: 0.25 ug/l
 RT: 3.17 min Scan# 423
 Delta R.T. 0.01 min
 Lab File: VX003161.D
 Acq: 03 Jul 2018 20:47

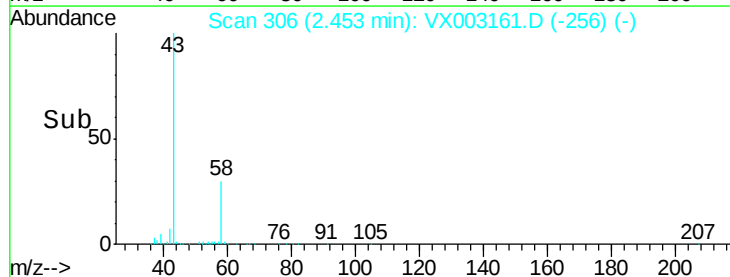
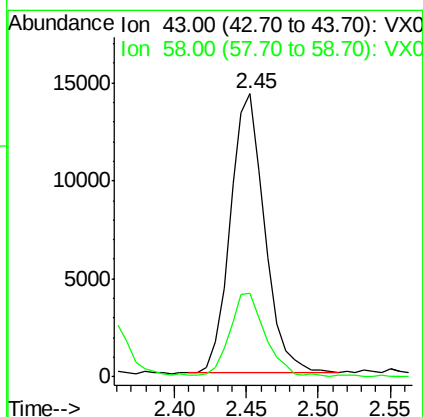
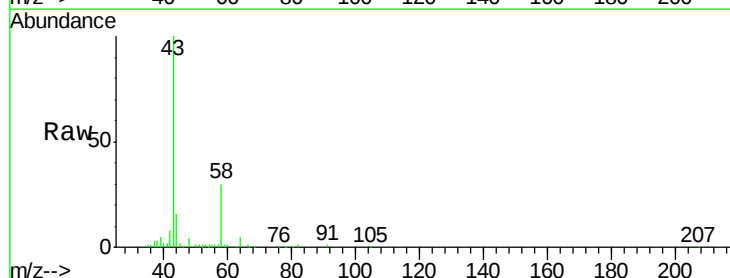
Instrument :
 MSVOA_X
 ClientSampleID :

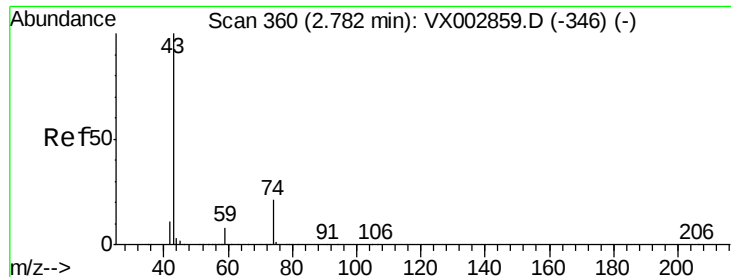
Tot Ion: 53 Resp: 386
 Ion Ratio Lower Upper
 53 100
 52 26.2 66.7 100.1#
 51 36.0 29.9 44.9



#16
 Acetone
 Concen: 15.56 ug/l
 RT: 2.45 min Scan# 306
 Delta R.T. 0.01 min
 Lab File: VX003161.D
 Acq: 03 Jul 2018 20:47

Tgt Ion: 43 Resp: 23661
 Ion Ratio Lower Upper
 43 100
 58 29.7 22.1 33.1

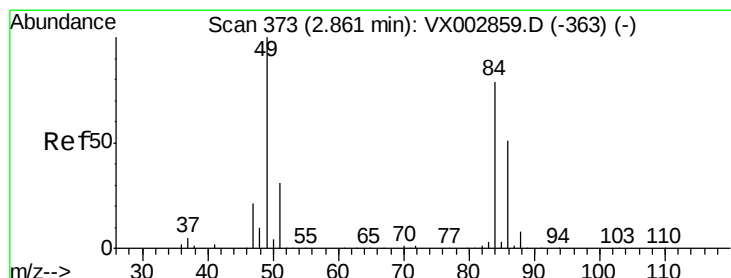
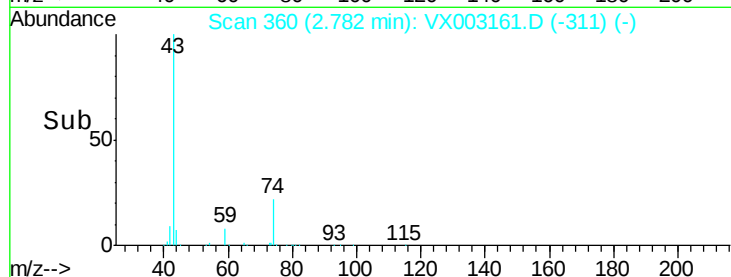
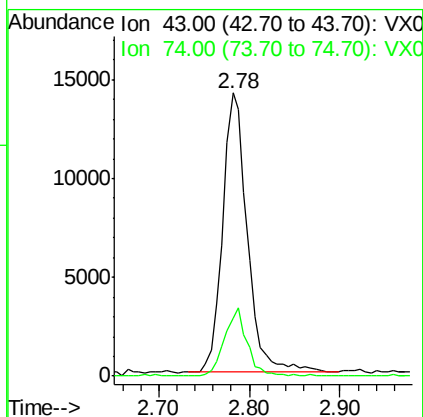
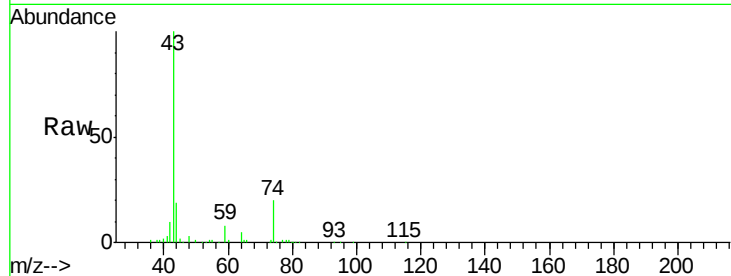




#18
Methvl Acetate
Concen: 6.28 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX003161.D
Acq: 03 Jul 2018 20:47

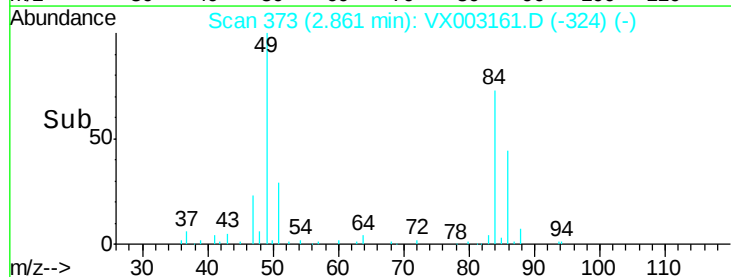
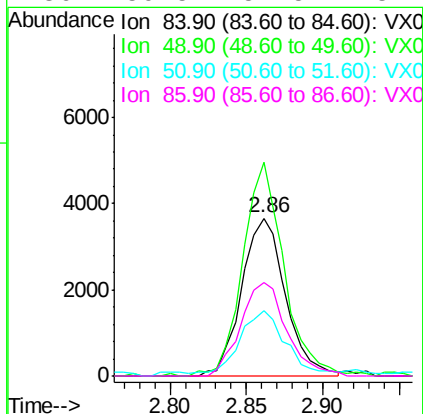
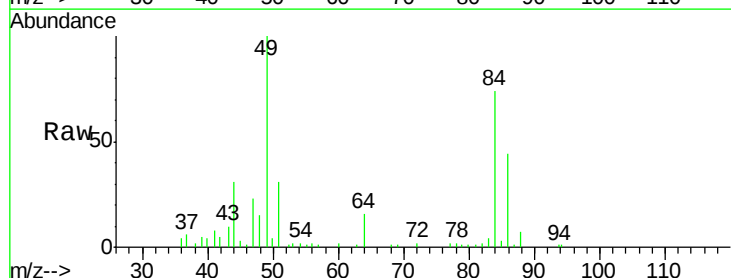
Instrument :
MSVOA_X
ClientSampleId :

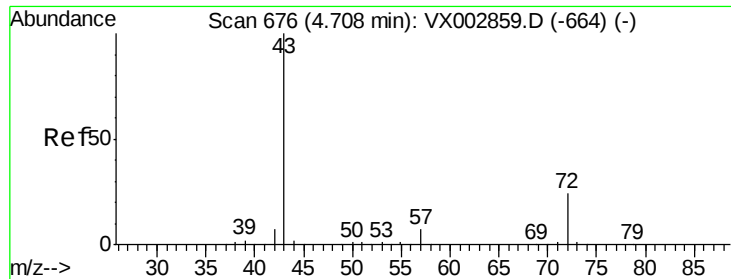
Tot Ion: 43 Resp: 26691
Ion Ratio Lower Upper
43 100
74 22.5 16.7 25.1



#20
Methylene Chloride
Concen: 2.46 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX003161.D
Acq: 03 Jul 2018 20:47

Tgt Ion: 84 Resp: 7270
Ion Ratio Lower Upper
84 100
49 135.6 107.8 161.6
51 40.2 32.8 49.2
86 59.5 52.5 78.7





#25

2-Butanone

Concen: 2.22 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003161.D

Acq: 03 Jul 2018 20:47

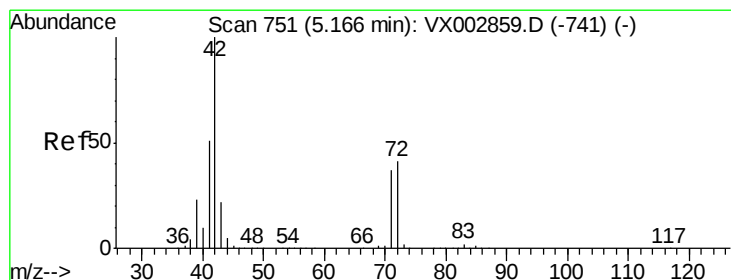
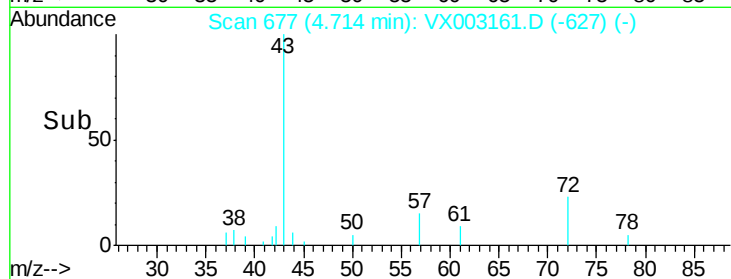
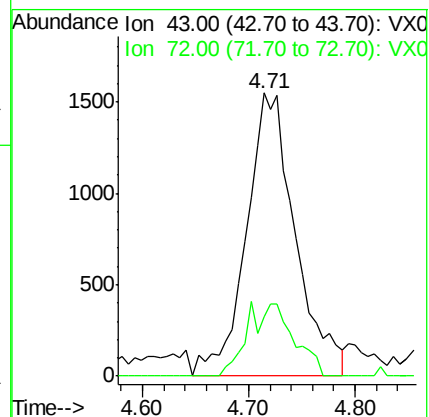
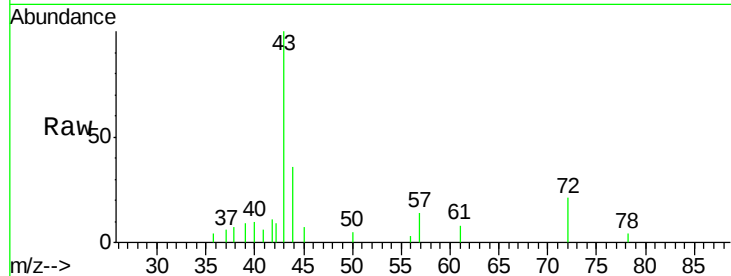
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 5001

Ion Ratio Lower Upper

43 100

72 20.8 18.5 27.7



#29

Tetrahydrofuran

Concen: 1.02 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003161.D

Acq: 03 Jul 2018 20:47

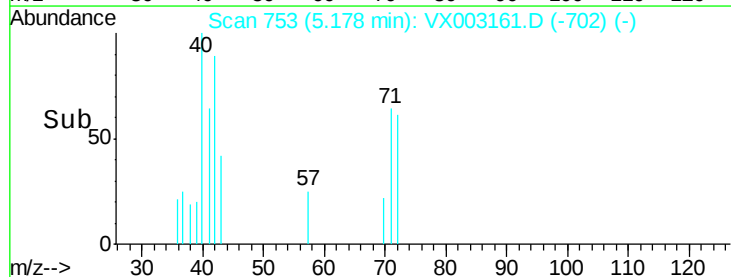
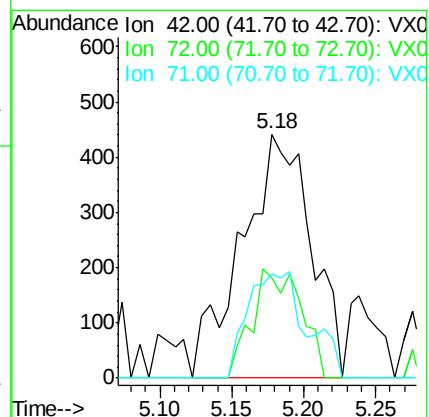
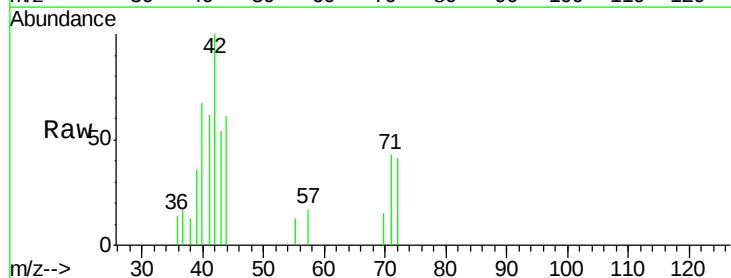
Tgt Ion: 42 Resp: 1478

Ion Ratio Lower Upper

42 100

72 31.8 32.0 48.0#

71 36.9 30.1 45.1

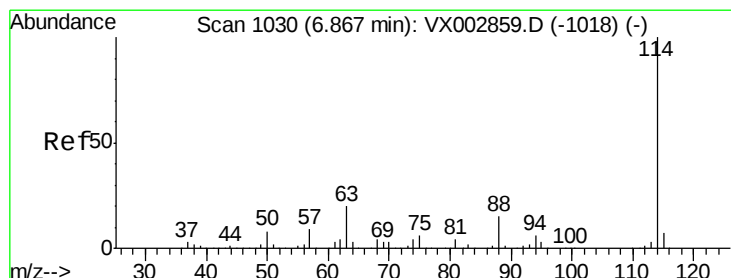
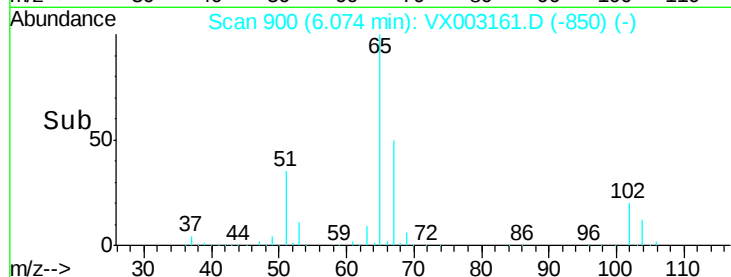
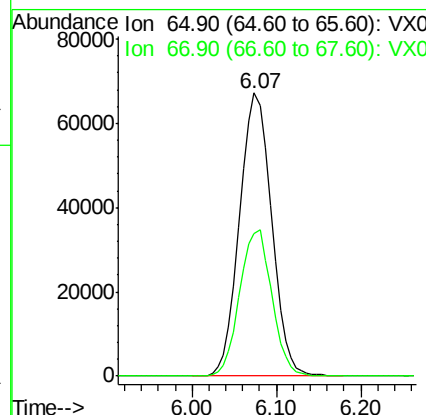
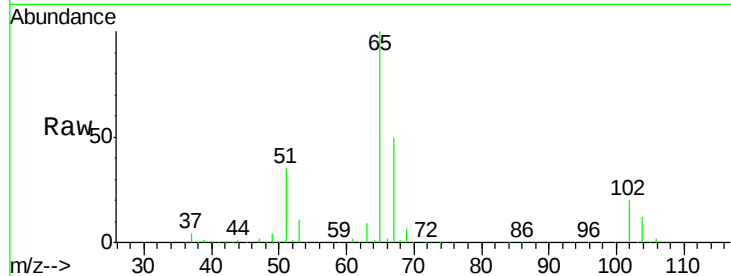




#33
 1,2-Dichloroethane-d4
 Concen: 47.21 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003161.D
 Acq: 03 Jul 2018 20:47

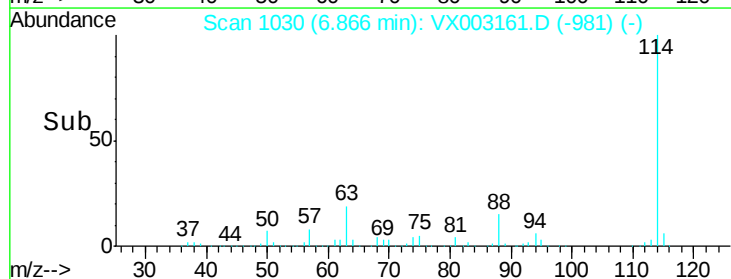
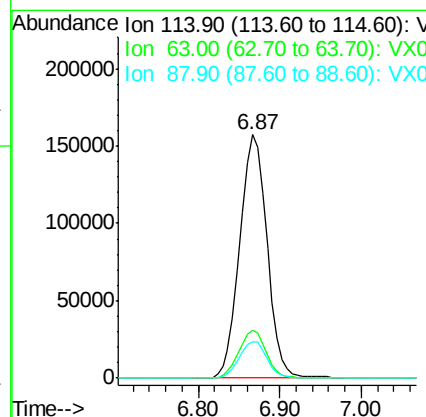
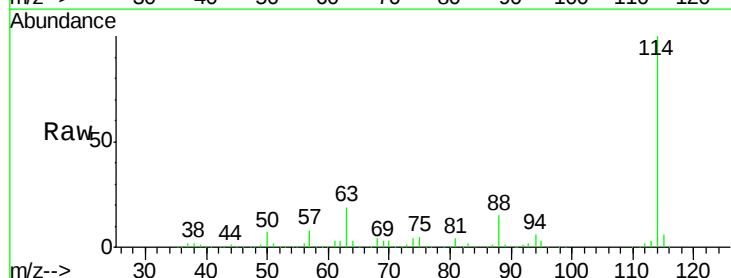
Instrument :
 MSVOA_X
 ClientSampleId :

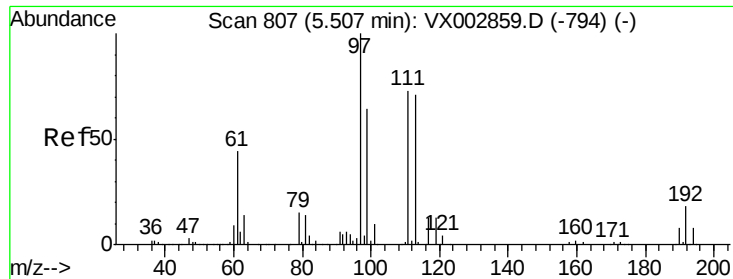
Tot Ion: 65 Resp: 173355
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003161.D
 Acq: 03 Jul 2018 20:47

Tgt Ion: 114 Resp: 364746
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 41.4
 88 15.0 0.0 30.0

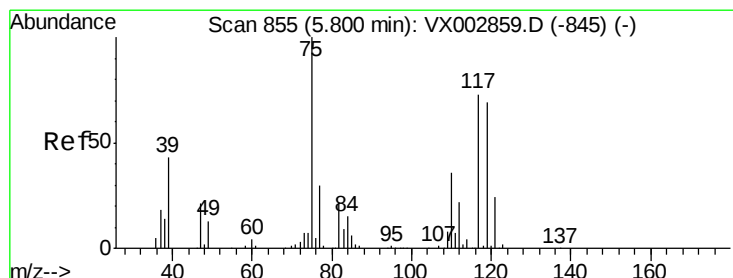
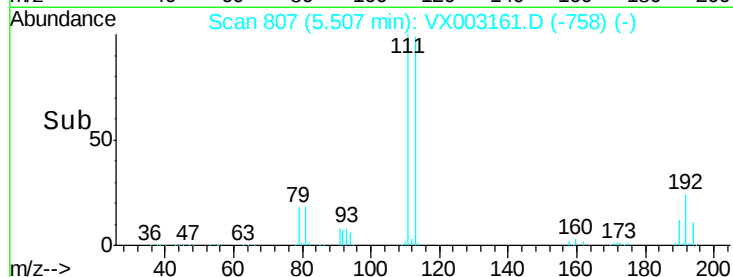
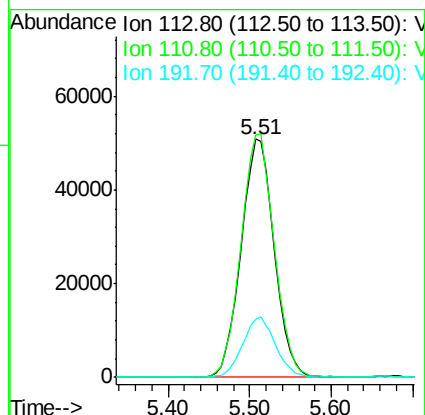
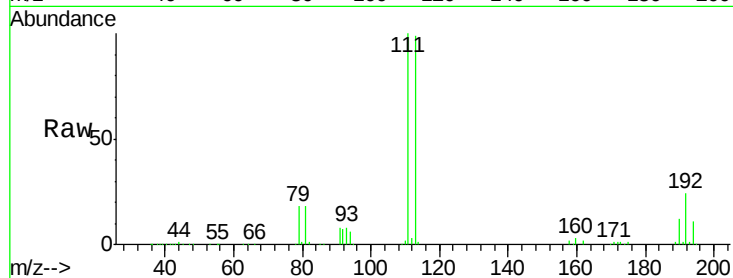




#35
 Dibromofluoromethane
 Concen: 49.57 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003161.D
 Acq: 03 Jul 2018 20:47

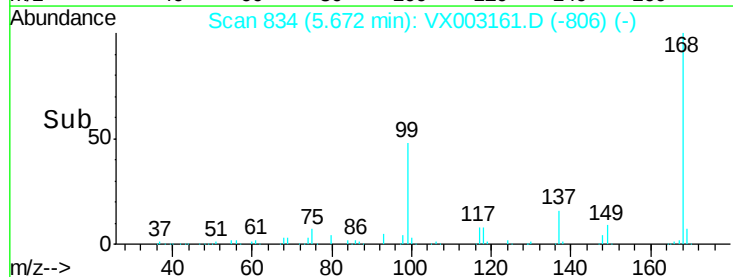
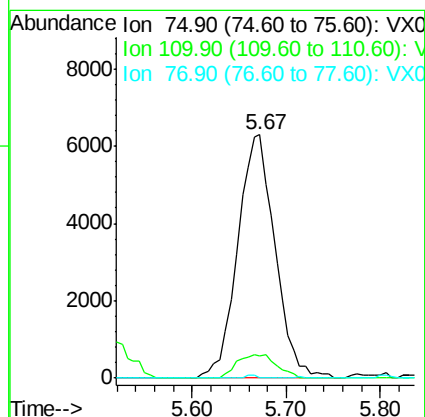
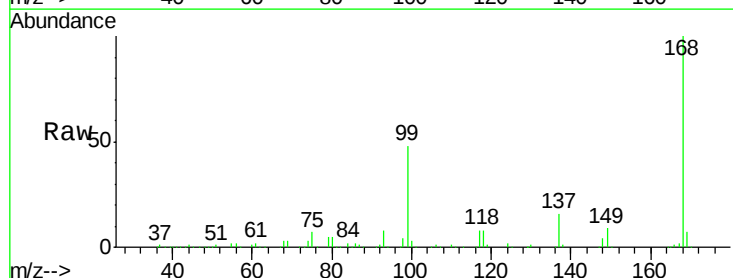
Instrument :
 MSVOA_X
 ClientSampleId :

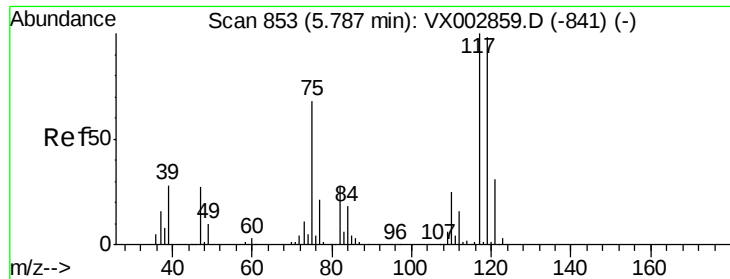
Tot Ion:113 Resp: 143169
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.4 122.0
 192 25.3 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.33 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX003161.D
 Acq: 03 Jul 2018 20:47

Tgt Ion: 75 Resp: 17311
 Ion Ratio Lower Upper
 75 100
 110 10.1 18.1 54.4#
 77 0.3 24.3 36.5#

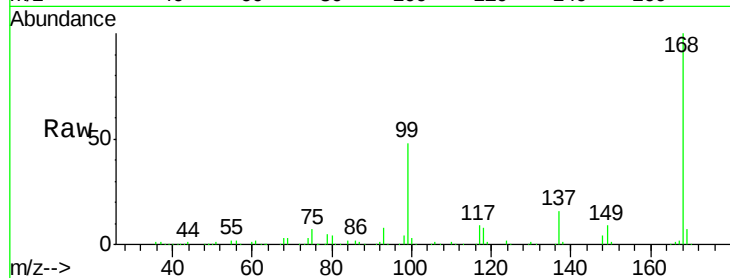




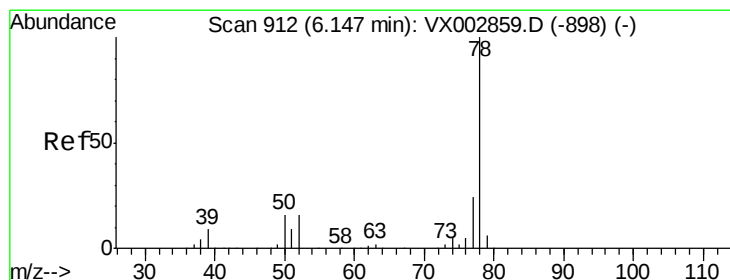
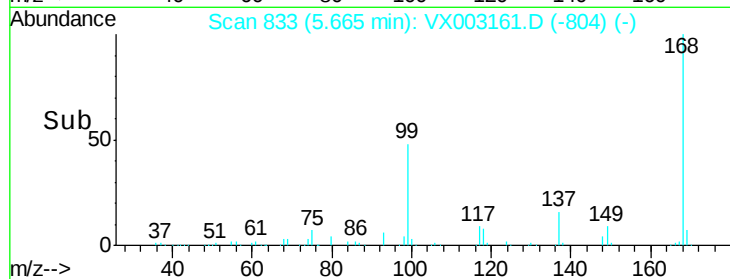
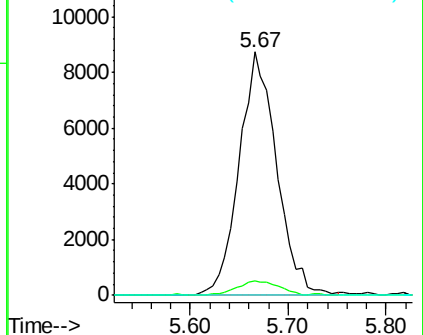
#38
Carbon Tetrachloride
Concen: 5.31 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003161.D
Acq: 03 Jul 2018 20:47

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 23324
Ion Ratio Lower Upper
117 100
119 6.0 77.4 116.0#
121 0.0 24.4 36.6#

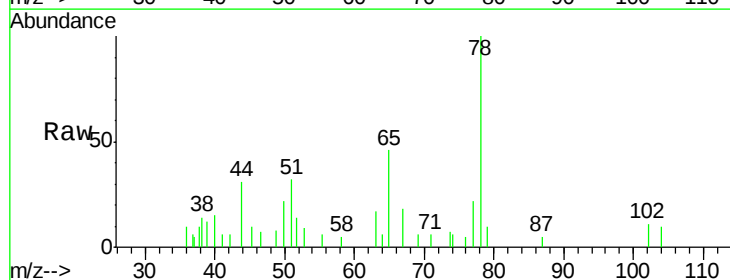


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

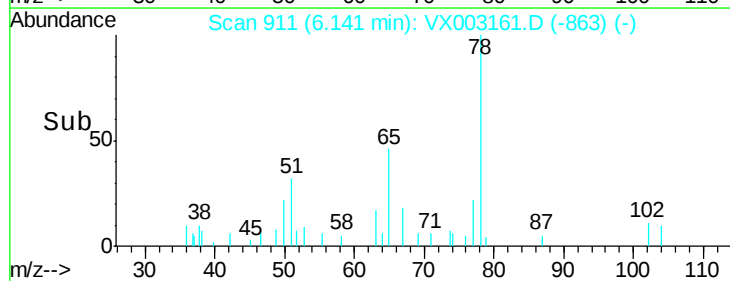
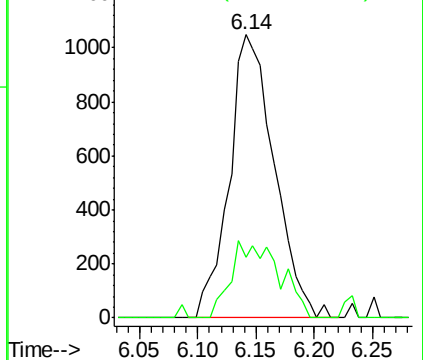


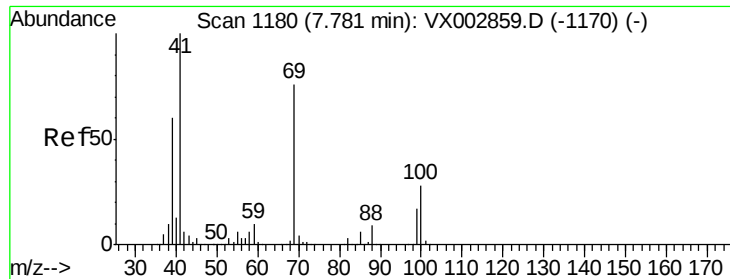
#40
Benzene
Concen: 0.24 ug/l
RT: 6.14 min Scan# 911
Delta R.T. -0.01 min
Lab File: VX003161.D
Acq: 03 Jul 2018 20:47

Tgt Ion: 78 Resp: 2819
Ion Ratio Lower Upper
78 100
77 21.6 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0

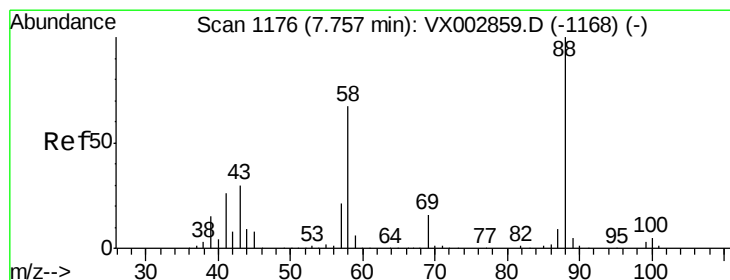
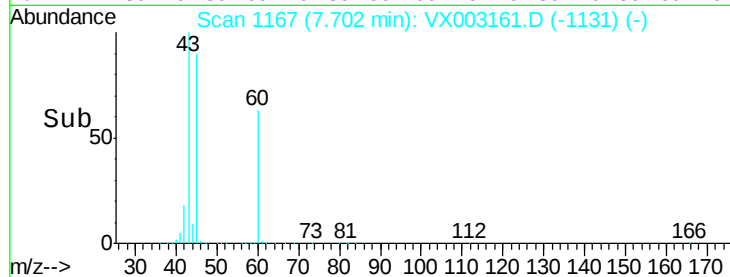
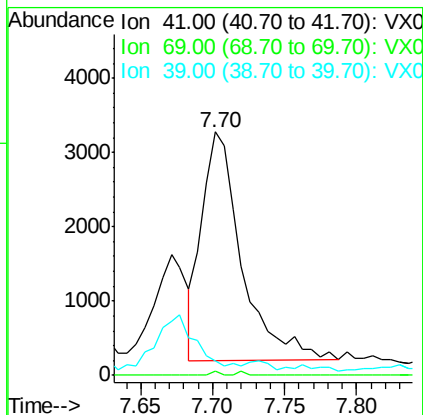
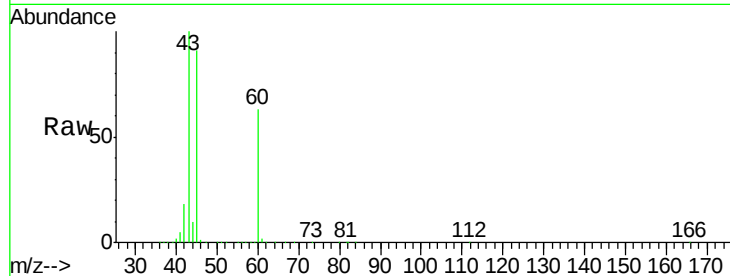




#48
Methvl methacrylate
Concen: 1.58 ug/l
RT: 7.70 min Scan# 1167
Delta R.T. -0.08 min
Lab File: VX003161.D
Acq: 03 Jul 2018 20:47

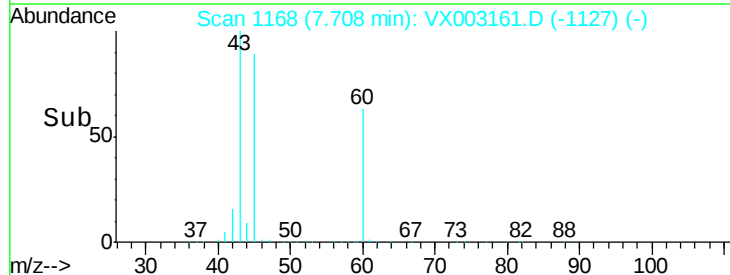
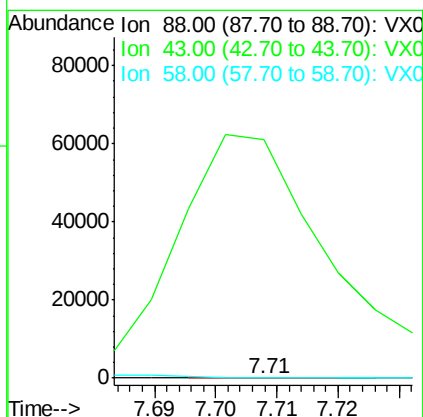
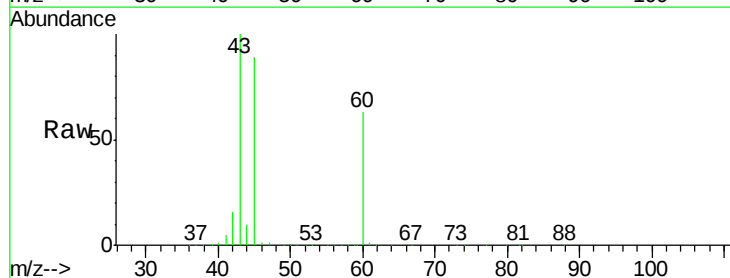
Instrument :
MSVOA_X
ClientSampleId :

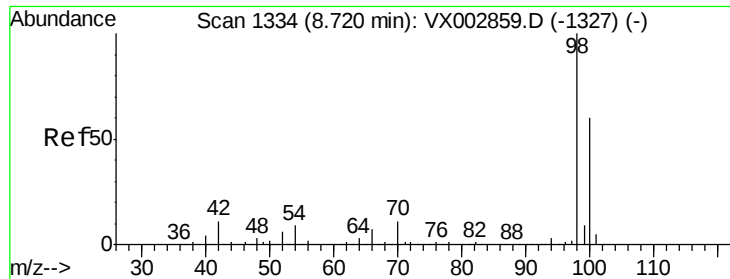
Tot Ion: 41 Resp: 5882
Ion Ratio Lower Upper
41 100
69 0.4 59.1 88.7#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 0.35 ug/l
RT: 7.71 min Scan# 1168
Delta R.T. -0.05 min
Lab File: VX003161.D
Acq: 03 Jul 2018 20:47

Tgt Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 486812.0 29.8 44.6#
58 324.0 57.1 85.7#





#50

Toluene-d8

Concen: 48.90 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003161.D

Acq: 03 Jul 2018 20:47

Instrument :

MSVOA_X

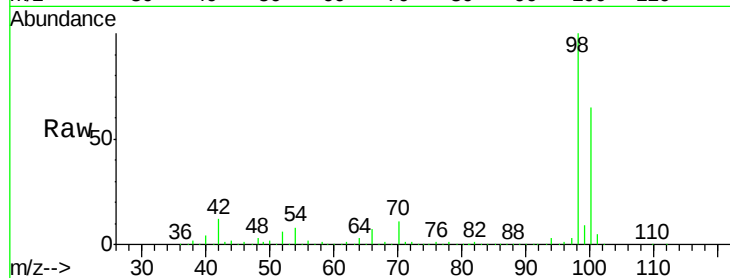
ClientSampleId :

Tot Ion: 98 Resp: 515813

Ion Ratio Lower Upper

98 100

100 64.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.72

300000

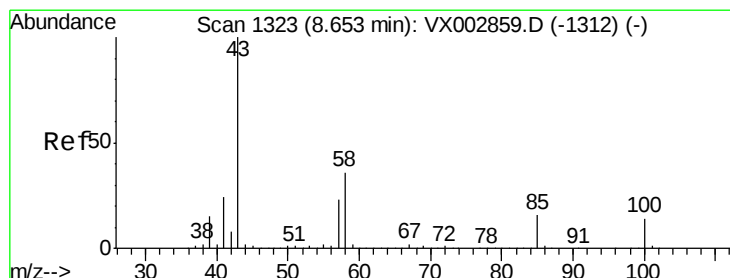
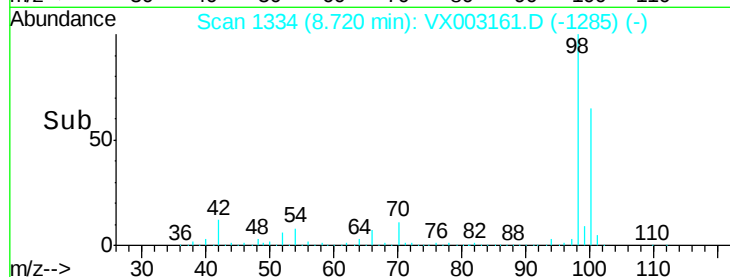
200000

100000

0

Time-->

8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 0.40 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX003161.D

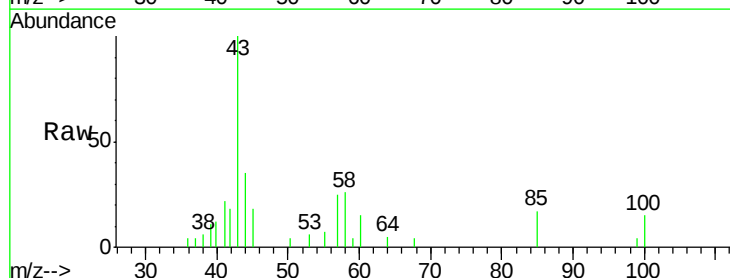
Acq: 03 Jul 2018 20:47

Tgt Ion: 43 Resp: 1798

Ion Ratio Lower Upper

43 100

58 45.7 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

1500

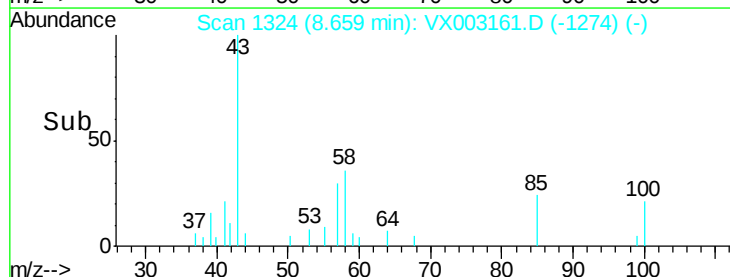
1000

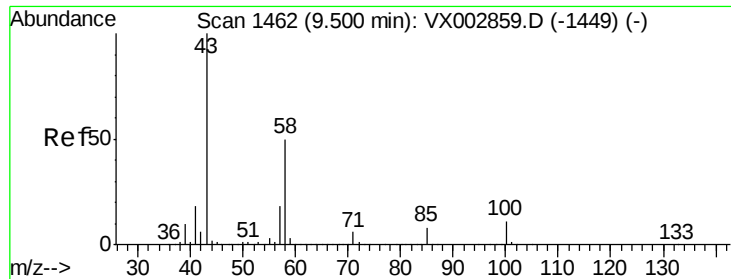
500

0

Time-->

8.60 8.65 8.70

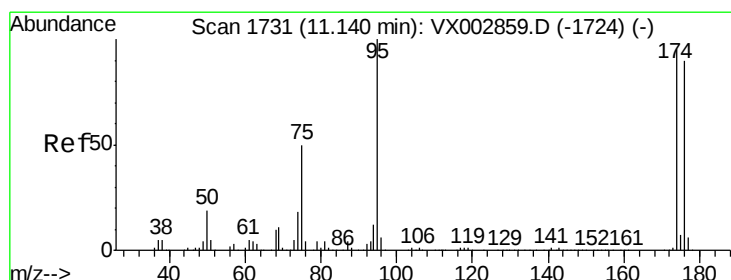
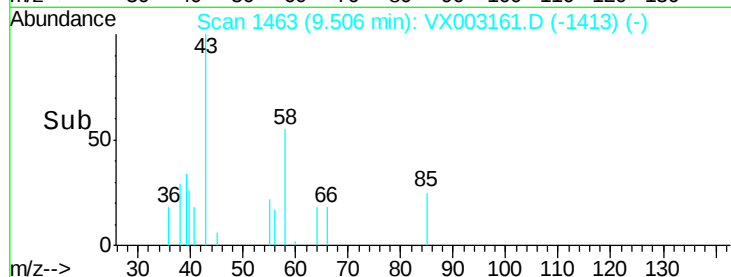
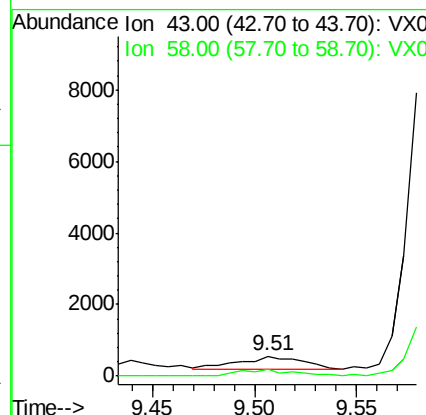
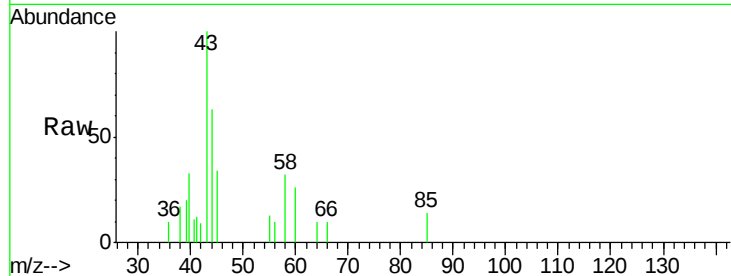




#59
2-Hexanone
Concen: 0.22 ug/l
RT: 9.51 min Scan# 1463
Delta R.T. 0.01 min
Lab File: VX003161.D
Acq: 03 Jul 2018 20:47

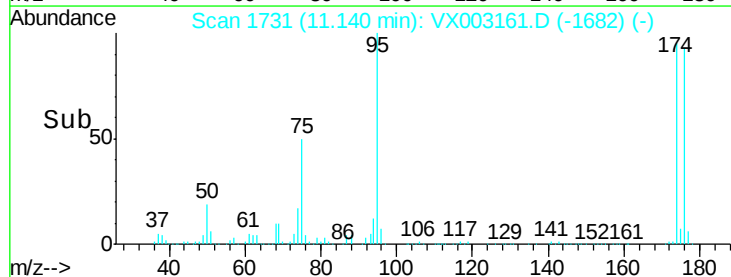
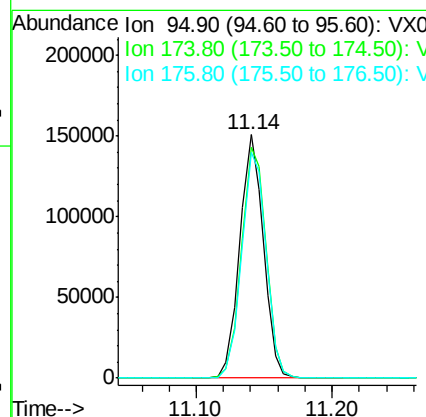
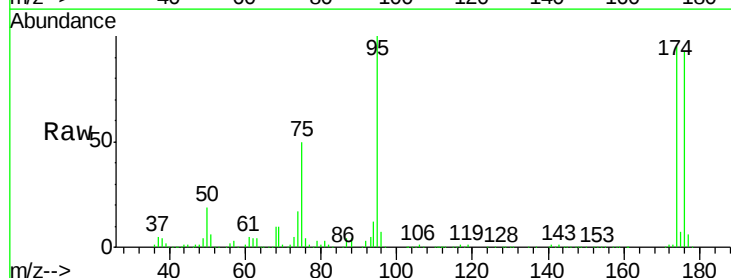
Instrument :
MSVOA_X
ClientSampleId :

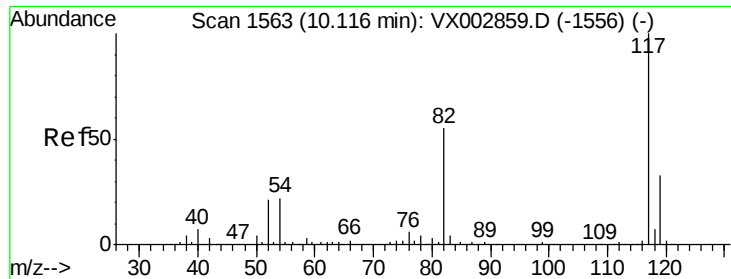
Tot Ion: 43 Resp: 769
Ion Ratio Lower Upper
43 100
58 44.9 24.6 73.6



#62
4-Bromofluorobenzene
Concen: 44.87 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003161.D
Acq: 03 Jul 2018 20:47

Tgt Ion: 95 Resp: 182520
Ion Ratio Lower Upper
95 100
174 99.1 0.0 187.4
176 96.1 0.0 181.0

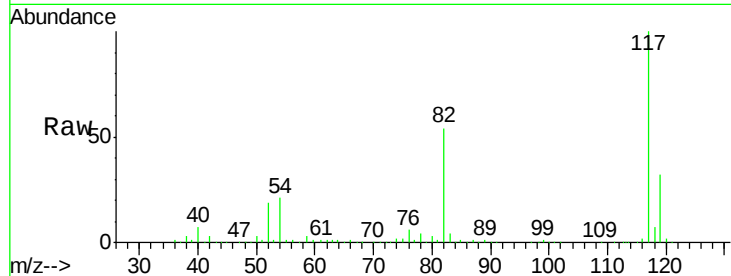




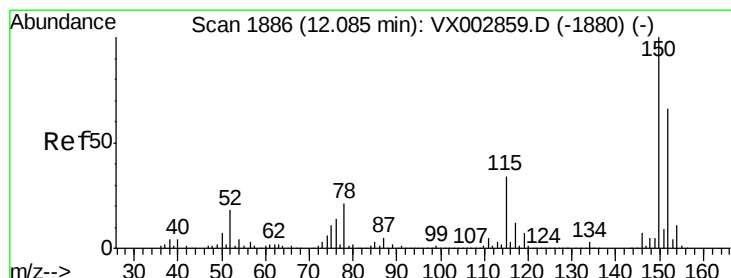
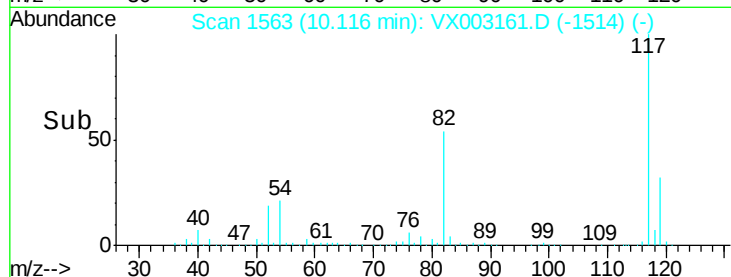
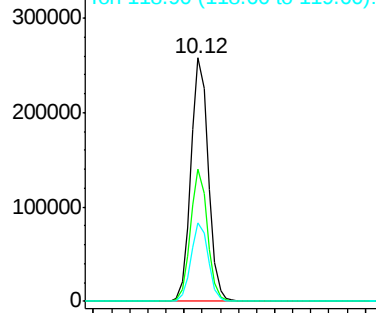
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003161.D
Acq: 03 Jul 2018 20:47

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 347636
Ion Ratio Lower Upper
117 100
82 54.4 45.0 67.4
119 32.0 25.8 38.6

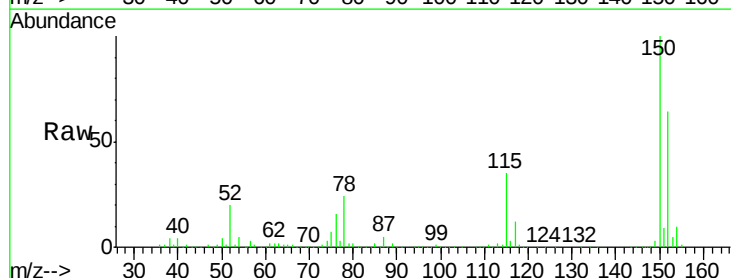


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

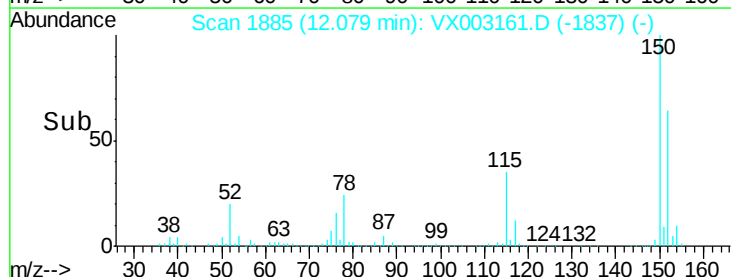
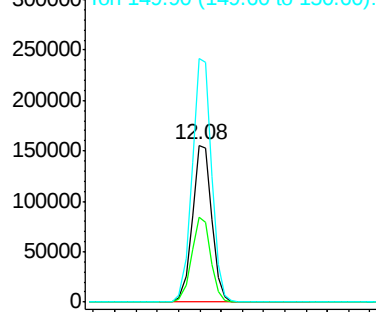


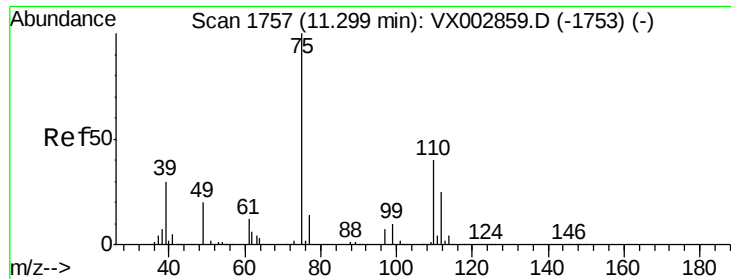
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX003161.D
Acq: 03 Jul 2018 20:47

Tgt Ion:152 Resp: 196952
Ion Ratio Lower Upper
152 100
115 53.6 40.1 120.2
150 156.2 0.0 347.2



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





#76

1,2,3-Trichloropropane

Concen: 25.83 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003161.D

Acq: 03 Jul 2018 20:47

Instrument :

MSVOA_X

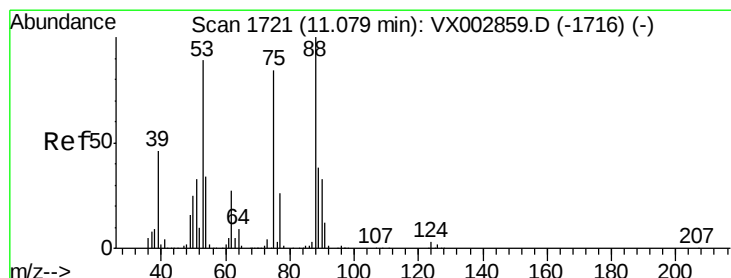
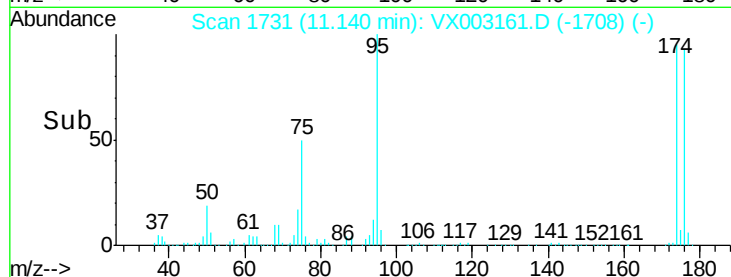
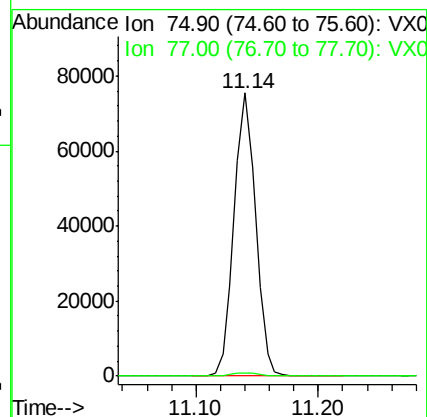
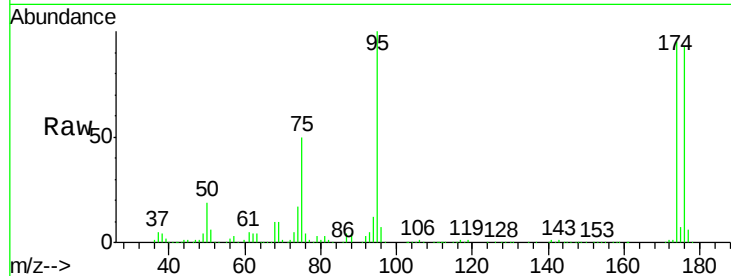
ClientSampleId :

Tot Ion: 75 Resp: 92154

Ion Ratio Lower Upper

75 100

77 1.4 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.27 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003161.D

Acq: 03 Jul 2018 20:47

Tgt Ion: 75 Resp: 92154

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#

