

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX053118\
 Data File : VX002203.D
 Acq On : 01 Jun 2018 07:22
 Operator : JC/MD
 Sample : J3119-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 01 08:15:28 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	266813	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	390205	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	353597	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	193667	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	228071	47.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.64%	
35) Dibromofluoromethane	5.51	113	167110	42.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.66%	
50) Toluene-d8	8.72	98	669871	47.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.84%	
62) 4-Bromofluorobenzene	11.14	95	235924	42.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.36%	

Target Compounds

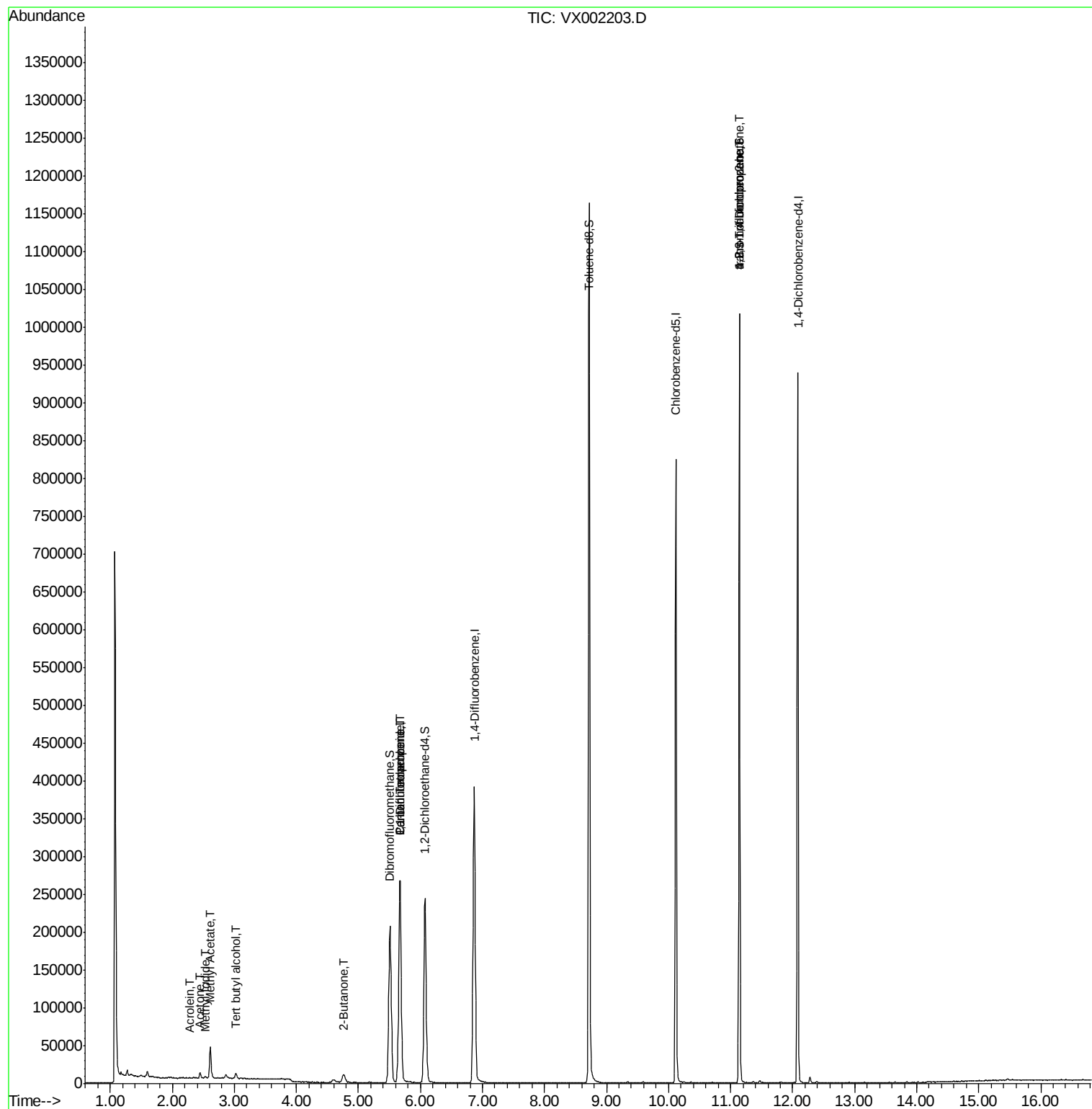
						Qvalue
2) Dichlorodifluoromethane	1.20	85	331	Below Cal		91
5) Bromomethane	1.61	94	216	Below Cal	#	51
10) Methyl Iodide	2.53	142	1803	0.40	ug/l #	92
11) Tert butyl alcohol	3.03	59	4177	4.46	ug/l #	71
13) Acrolein	2.28	56	327	0.81	ug/l #	58
16) Acetone	2.45	43	8186	4.45	ug/l #	87
18) Methyl Acetate	2.61	43	10712	1.31	ug/l #	55
20) Methylene Chloride	2.86	84	2150	Below Cal		85
21) trans-1,2-Dichloroethene	3.17	96	199	Below Cal	#	19
25) 2-Butanone	4.76	43	1157	0.34	ug/l #	53
28) Bromochloromethane	5.03	49	57	Below Cal	#	14
36) 1,1-Dichloropropene	5.67	75	19086	3.52	ug/l #	51
38) Carbon Tetrachloride	5.67	117	25358	4.01	ug/l #	14
41) Methacrylonitrile	5.08	41	215	Below Cal	#	7
74) N-amyl acetate	6.47	43	128	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.14	83	360	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.14	75	126437	27.18	ug/l #	33
79) 2-Chlorotoluene	11.52	91	342	Below Cal		74
81) trans-1,4-Dichloro-2-buten	11.14	75	126437	65.33	ug/l #	10

(#) = 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. -0.00 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

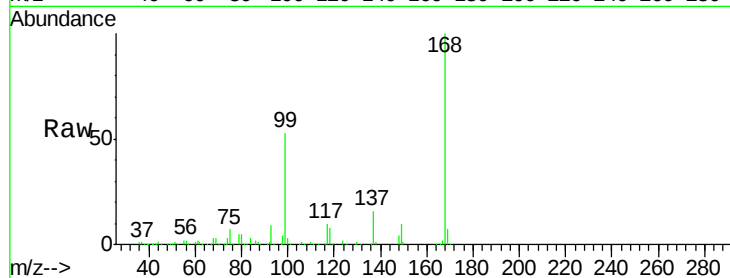
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 266813

Ion Ratio Lower Upper

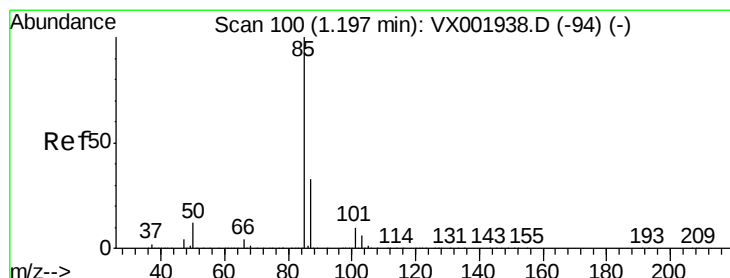
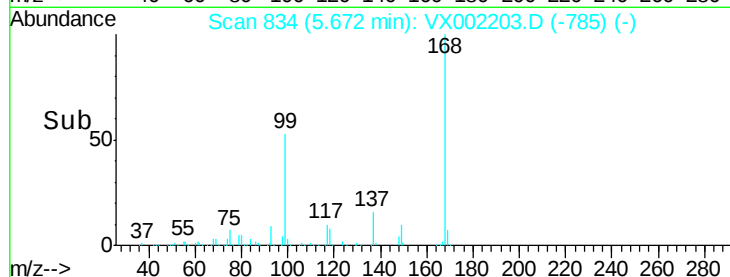
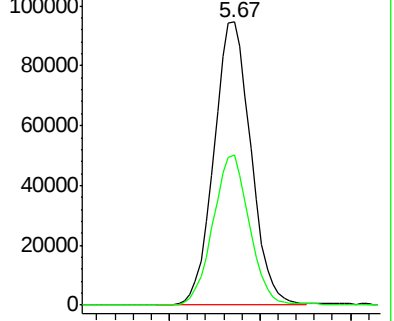
168 100

99 53.0 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX002203.D

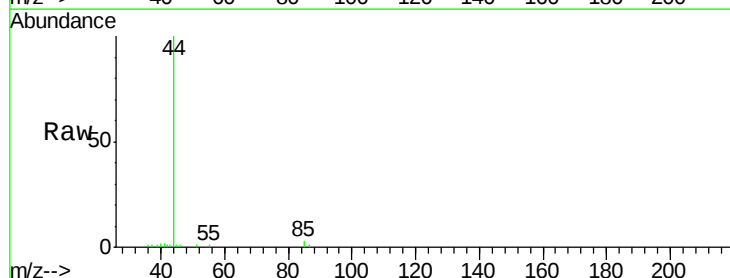
Acq: 01 Jun 2018 07:22

Tgt Ion: 85 Resp: 331

Ion Ratio Lower Upper

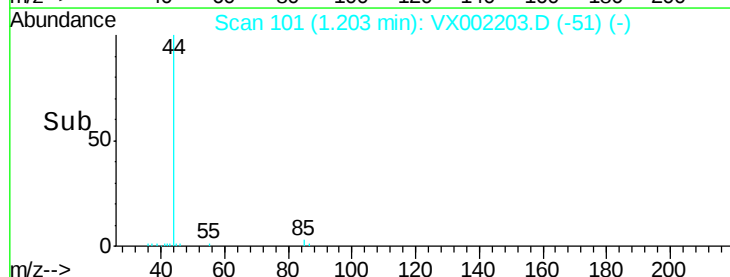
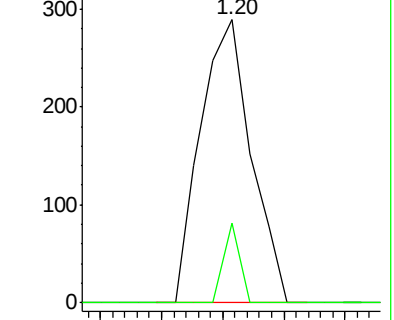
85 100

87 28.4 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 167

Delta R.T. -0.03 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

Instrument :

MSVOA_X

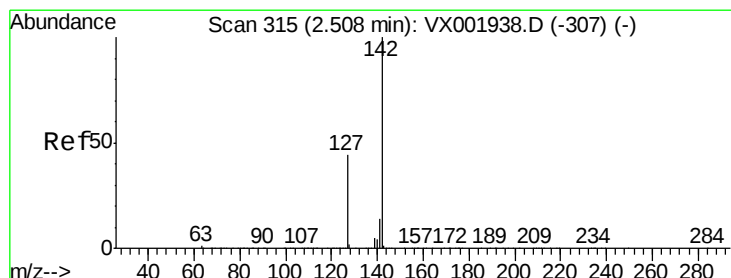
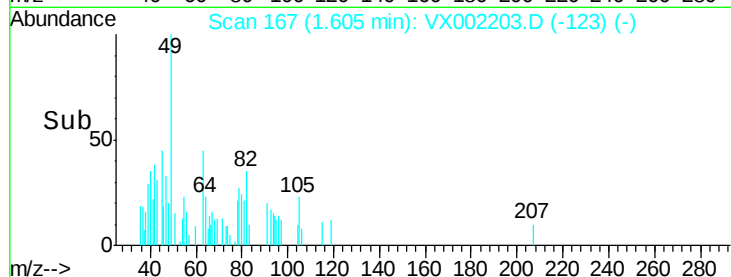
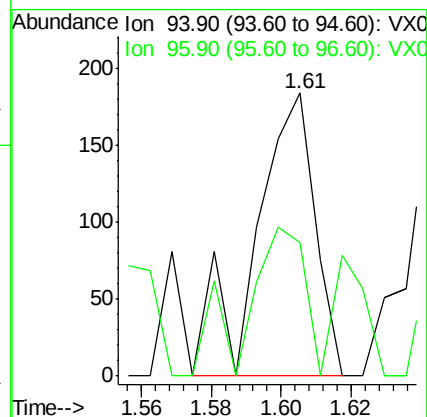
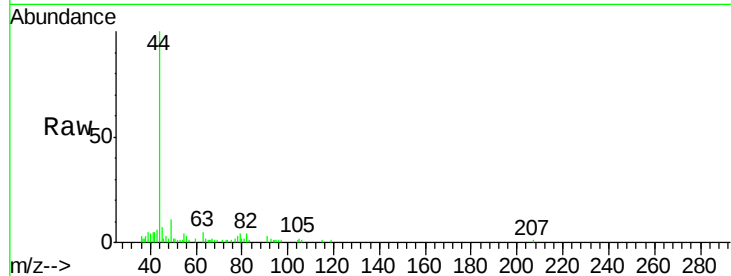
ClientSampled :

Tot Ion: 94 Resp: 216

Ion Ratio Lower Upper

94 100

96 47.3 75.9 113.9#



#10

Methyl Iodide

Concen: 0.40 ug/l

RT: 2.53 min Scan# 319

Delta R.T. 0.02 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

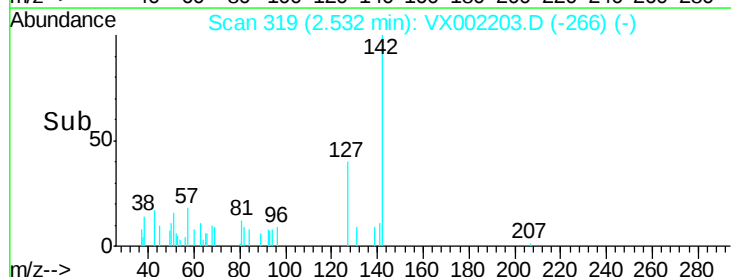
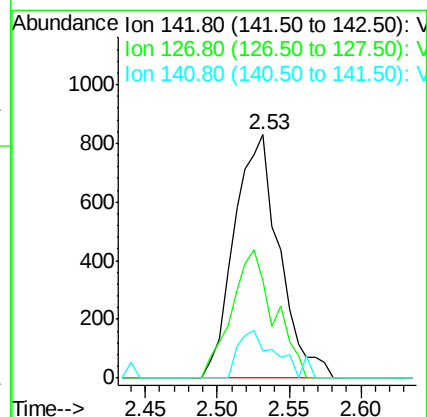
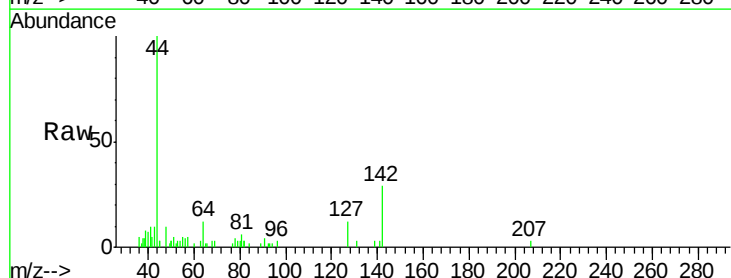
Tgt Ion:142 Resp: 1803

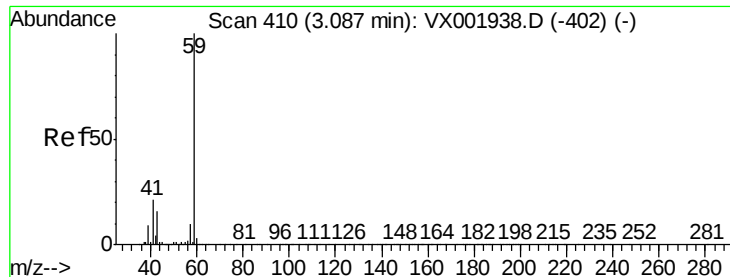
Ion Ratio Lower Upper

142 100

127 49.8 35.5 53.3

141 17.0 11.3 16.9#

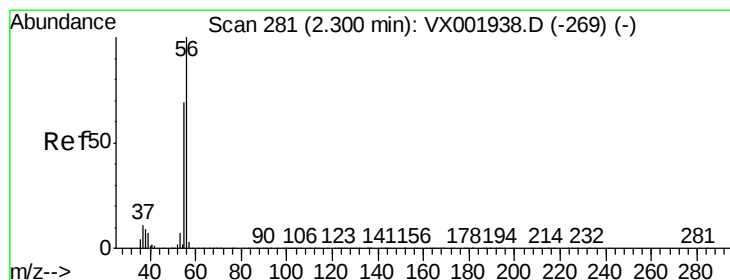
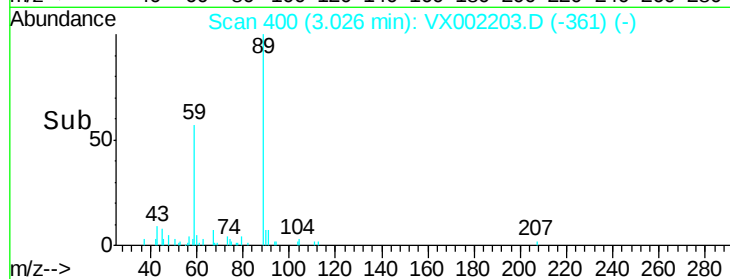
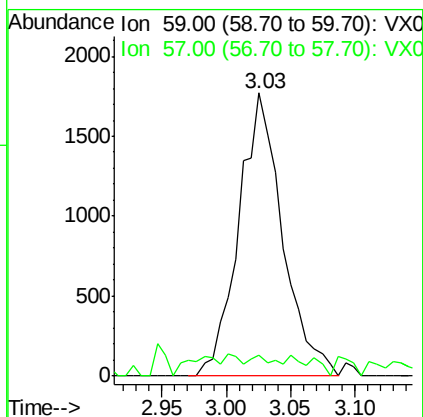
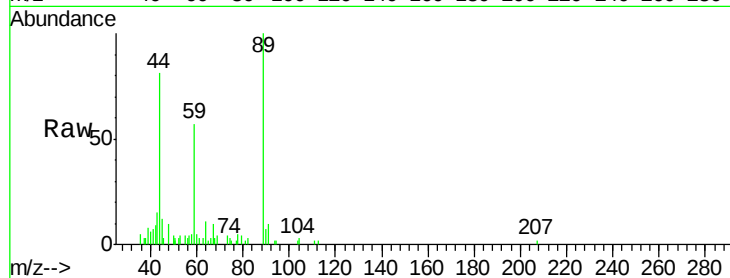




#11
Tert butyl alcohol
Concen: 4.46 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.06 min
Lab File: VX002203.D
Acq: 01 Jun 2018 07:22

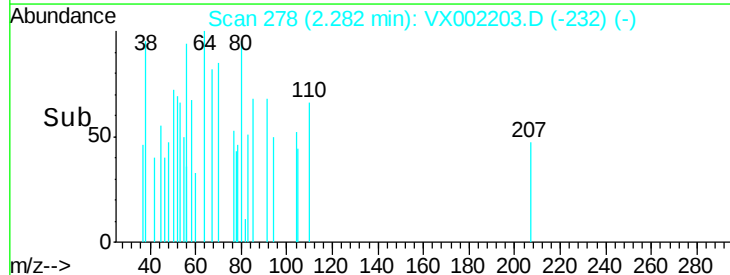
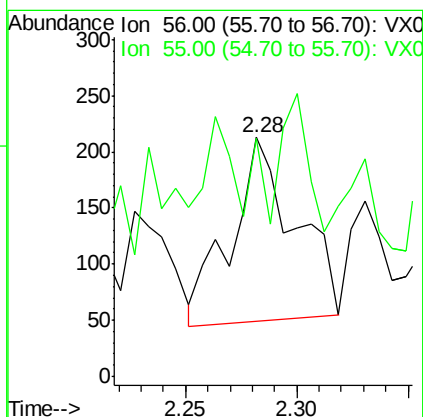
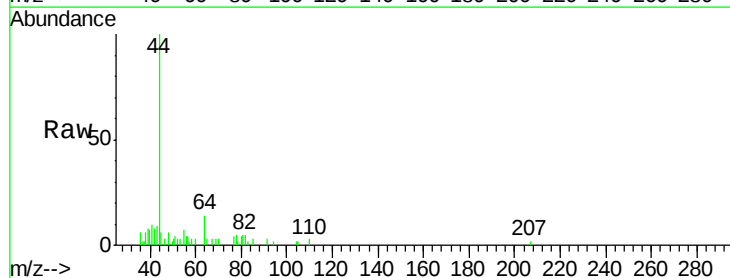
Instrument :
MSVOA_X
ClientSampleId :

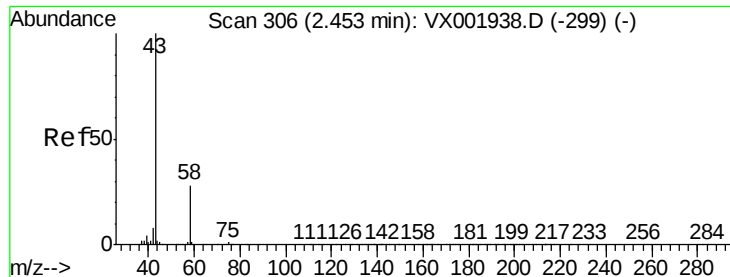
Tot Ion: 59 Resp: 4177
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#



#13
Acrolein
Concen: 0.81 ug/l
RT: 2.28 min Scan# 278
Delta R.T. -0.02 min
Lab File: VX002203.D
Acq: 01 Jun 2018 07:22

Tgt Ion: 56 Resp: 327
Ion Ratio Lower Upper
56 100
55 36.1 56.8 85.2#





#16

Acetone

Concen: 4.45 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

Instrument :

MSVOA_X

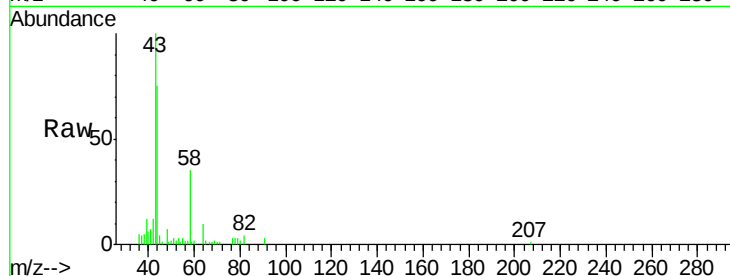
ClientSampleId :

Tot Ion: 43 Resp: 8186

Ion Ratio Lower Upper

43 100

58 34.6 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

4000

3000

2000

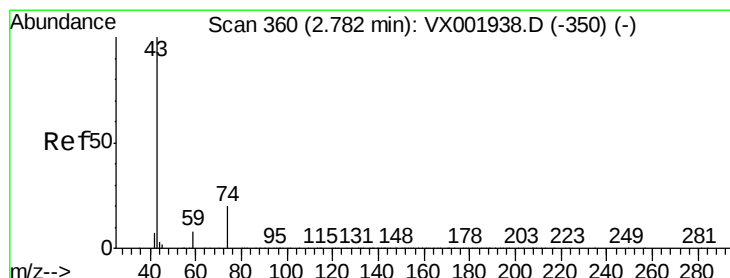
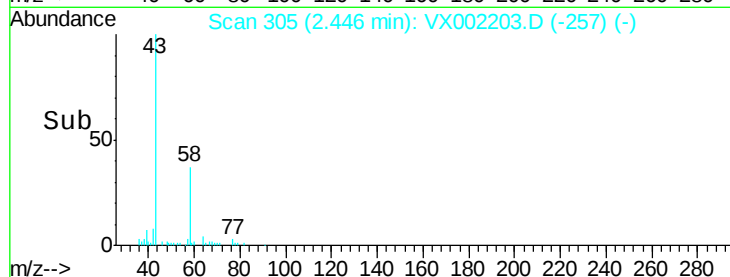
1000

0

Time-->

2.40

2.50



#18

Methyl Acetate

Concen: 1.31 ug/l

RT: 2.61 min Scan# 332

Delta R.T. -0.17 min

Lab File: VX002203.D

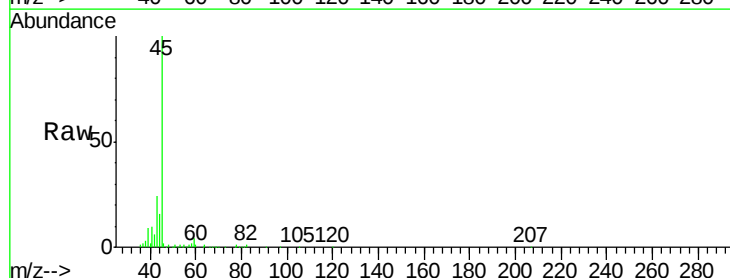
Acq: 01 Jun 2018 07:22

Tgt Ion: 43 Resp: 10712

Ion Ratio Lower Upper

43 100

74 0.0 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.61

6000

4000

2000

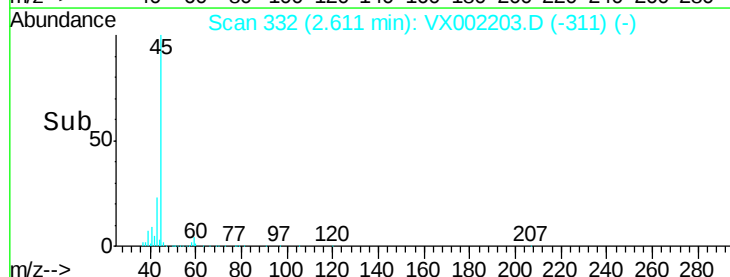
0

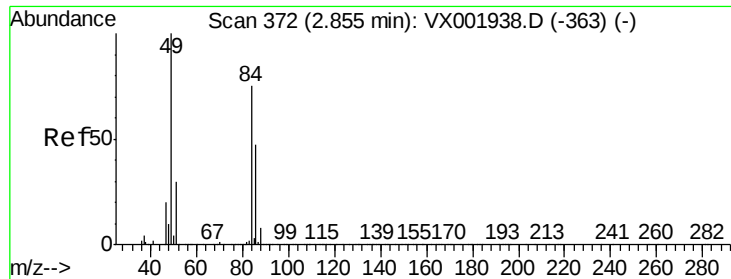
Time-->

2.55

2.65

2.70

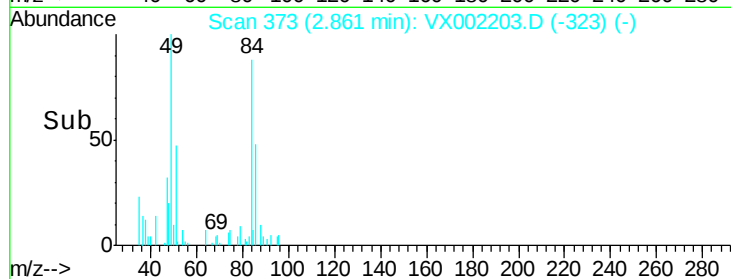
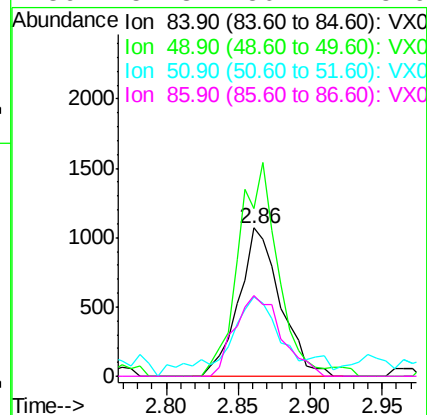
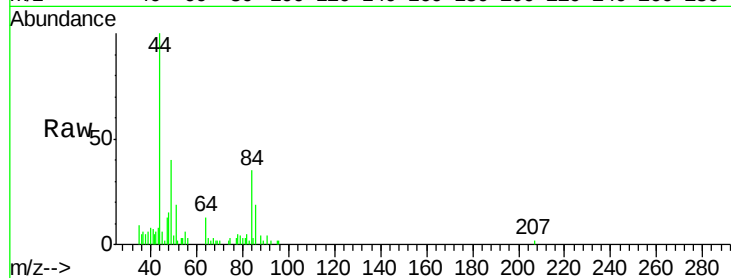




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002203.D
Acq: 01 Jun 2018 07:22

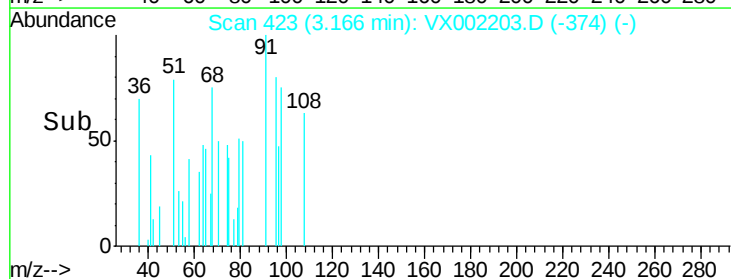
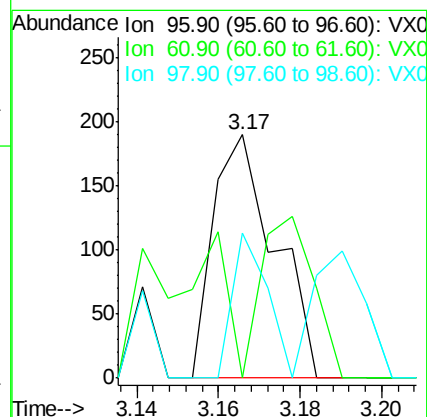
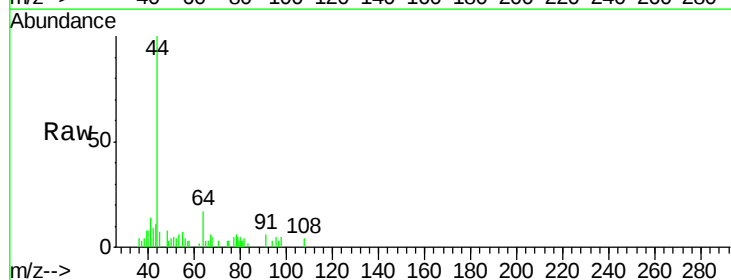
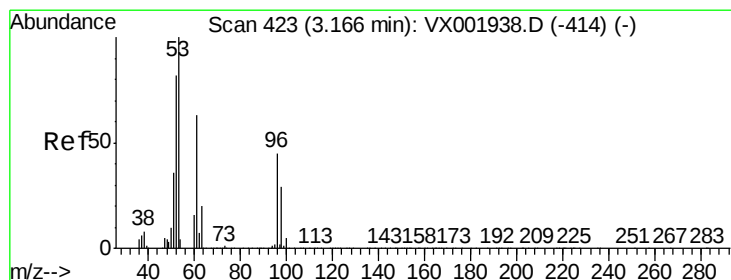
Instrument :
MSVOA_X
ClientSampleId :

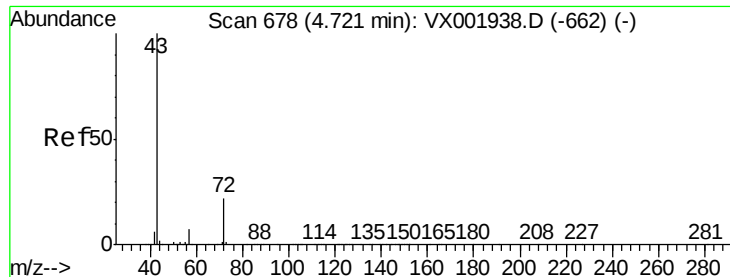
Tot Ion:	84	Resp:	2150
Ion	Ratio	Lower	Upper
84	100		
49	113.0	107.2	160.8
51	46.2	32.4	48.6
86	54.3	50.4	75.6



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 423
Delta R.T. -0.00 min
Lab File: VX002203.D
Acq: 01 Jun 2018 07:22

Tgt Ion:	96	Resp:	199
Ion	Ratio	Lower	Upper
96	100		
61	0.0	113.3	169.9#
98	59.5	51.7	77.5





#25

2-Butanone

Concen: 0.34 ug/l

RT: 4.76 min Scan# 685

Delta R.T. 0.04 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

Instrument :

MSVOA_X

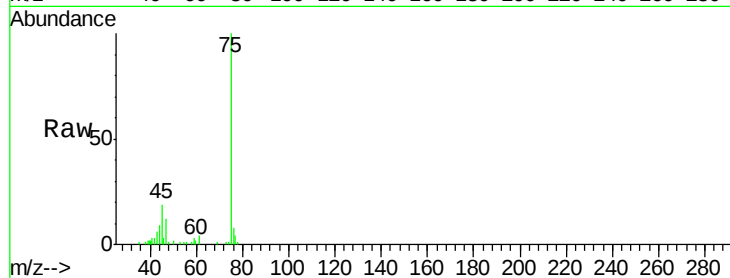
ClientSampleId :

Tot Ion: 43 Resp: 1157

Ion Ratio Lower Upper

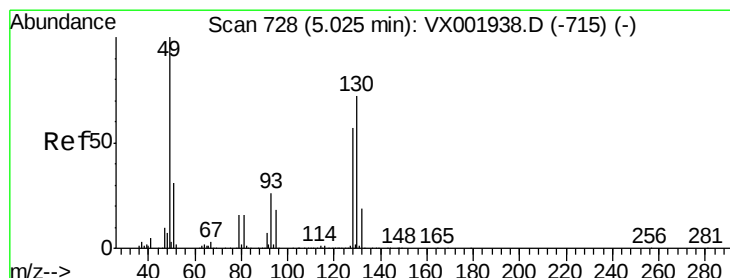
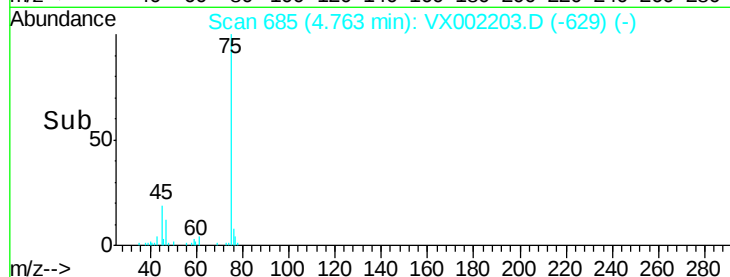
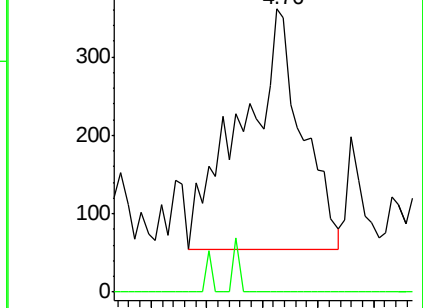
43 100

72 0.0 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

Delta R.T. 0.01 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

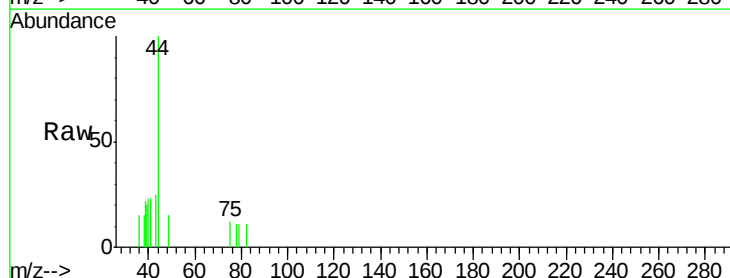
Tgt Ion: 49 Resp: 57

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

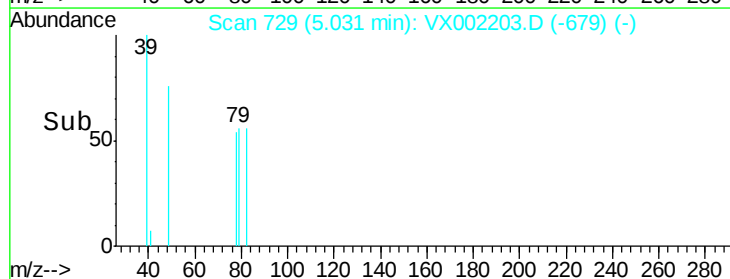
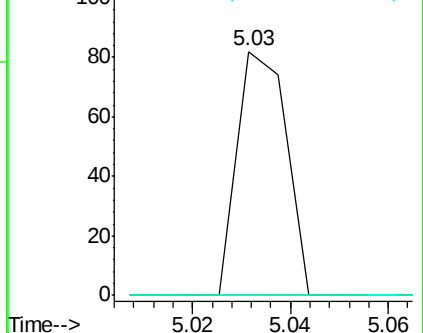
130 0.0 59.4 89.2#

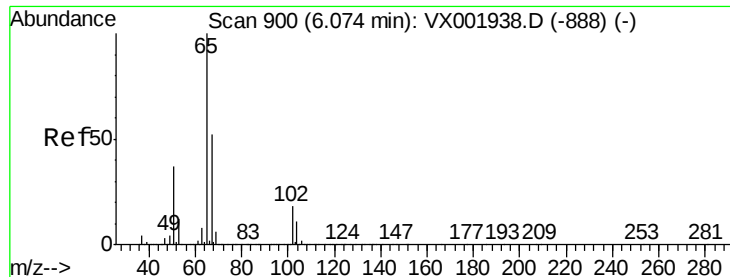


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#33

1,2-Dichloroethane-d4

Concen: 47.82 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

Instrument :

MSVOA_X

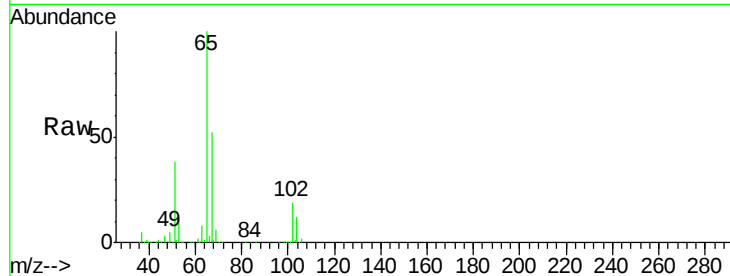
ClientSampleId :

Tot Ion: 65 Resp: 228071

Ion Ratio Lower Upper

65 100

67 51.9 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

100000

80000

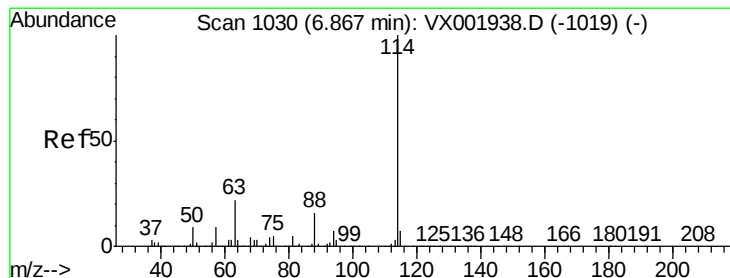
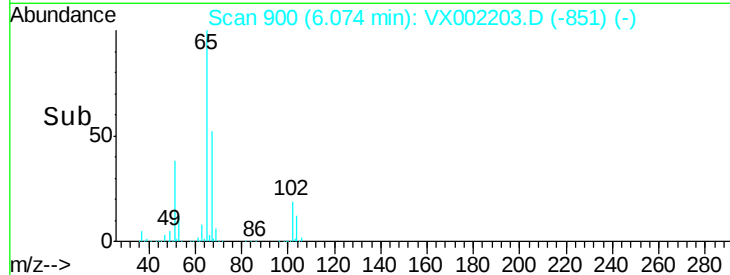
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

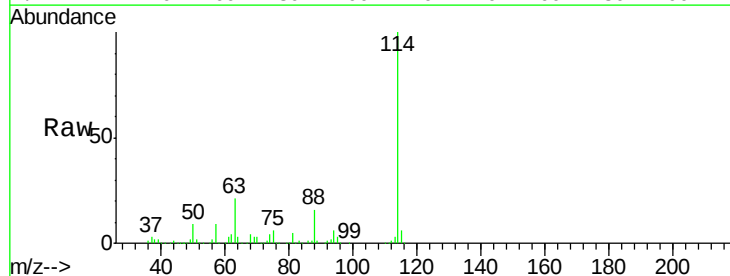
Tgt Ion: 114 Resp: 390205

Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.2

88 15.6 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

200000

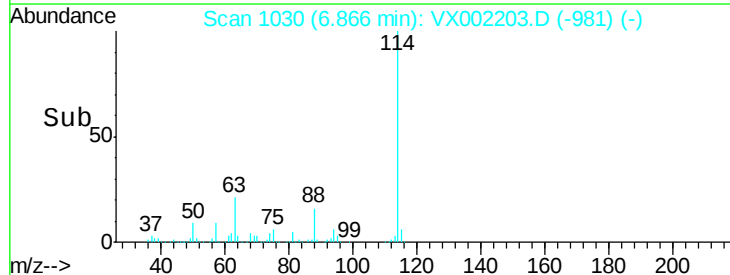
150000

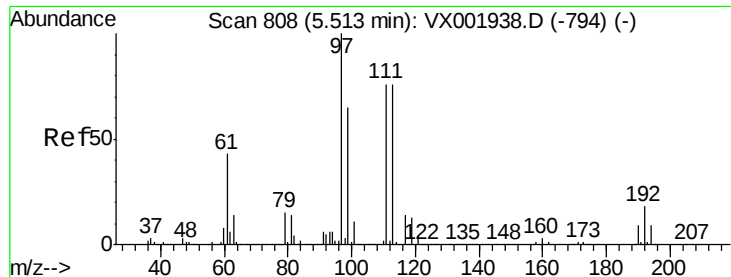
100000

50000

0

Time--> 6.70 6.80 6.90 7.00 7.10

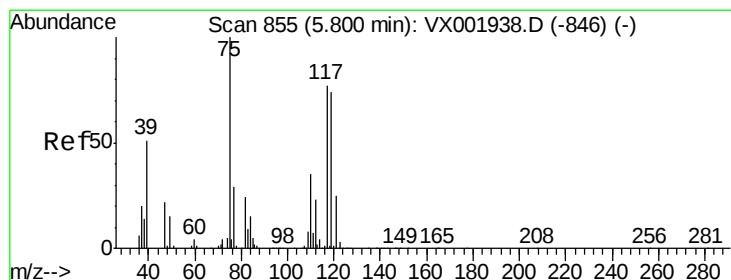
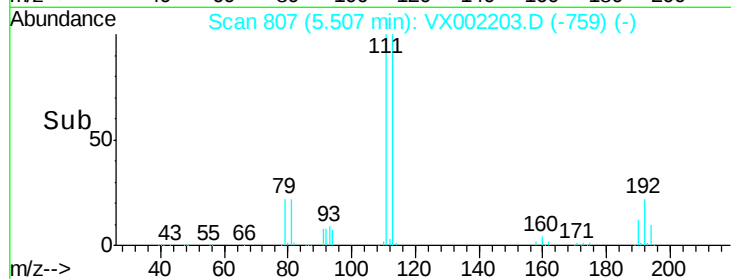
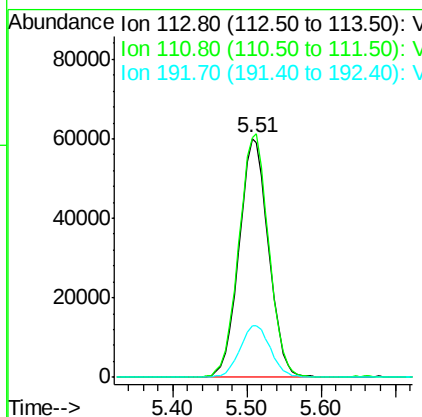
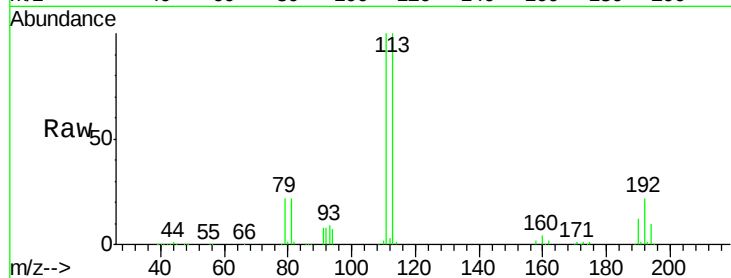




#35
Dibromofluoromethane
Concen: 42.83 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.01 min
Lab File: VX002203.D
Acq: 01 Jun 2018 07:22

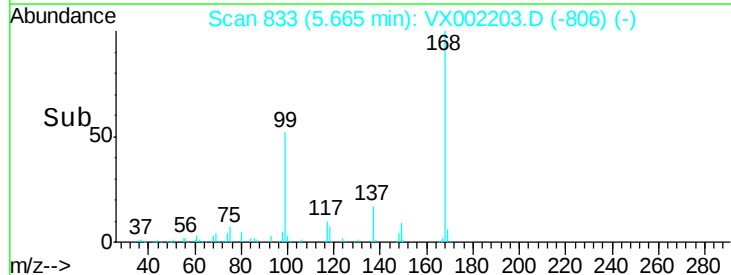
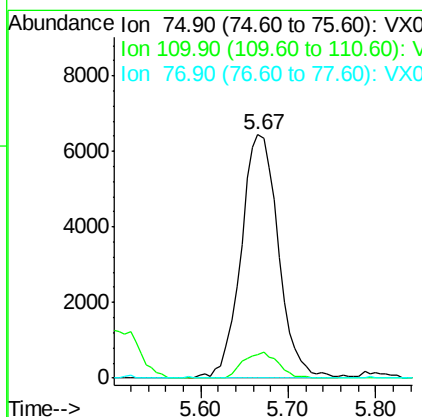
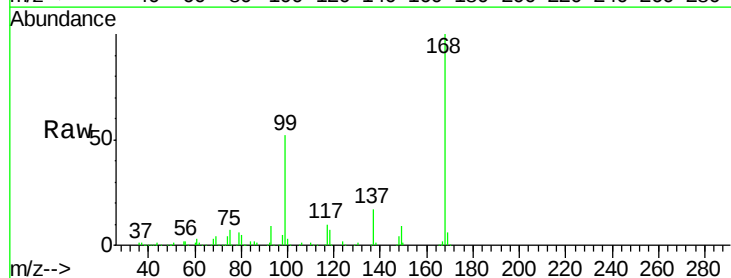
Instrument :
MSVOA_X
ClientSampleId :

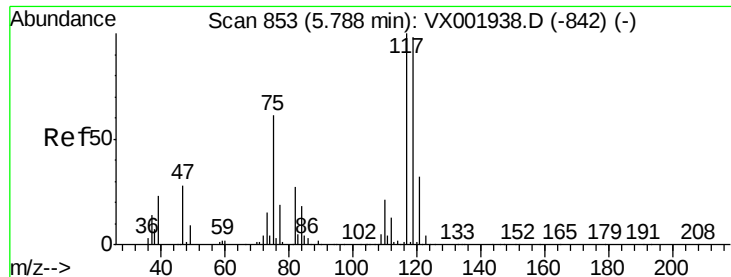
Tot Ion:113 Resp: 167110
Ion Ratio Lower Upper
113 100
111 103.2 82.0 123.0
192 22.5 18.9 28.3



#36
1,1-Dichloropropene
Concen: 3.52 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.13 min
Lab File: VX002203.D
Acq: 01 Jun 2018 07:22

Tgt Ion: 75 Resp: 19086
Ion Ratio Lower Upper
75 100
110 10.0 17.4 52.2#
77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 4.01 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

Instrument :
MSVOA_X
ClientSampleId :

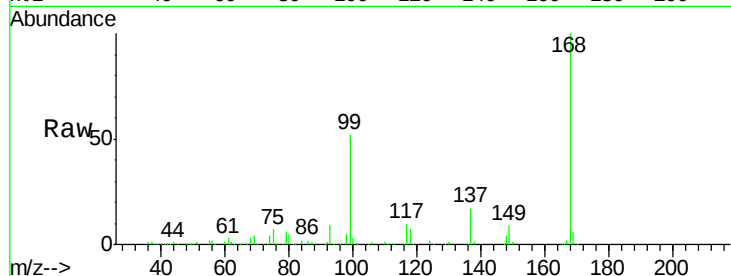
Tot Ion:117 Resp: 25358

Ion Ratio Lower Upper

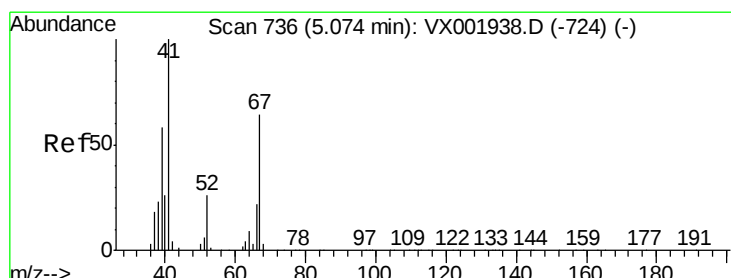
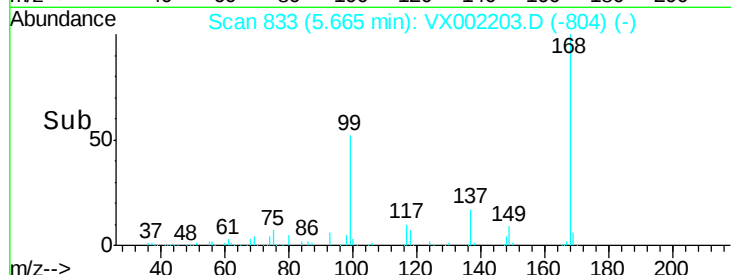
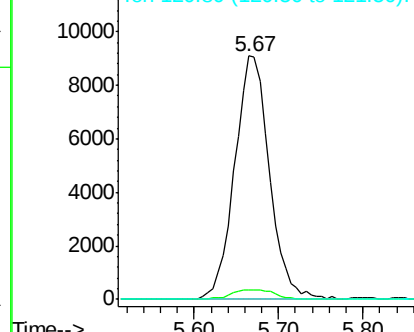
117 100

119 4.1 78.5 117.7#

121 0.0 25.5 38.3#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 5.08 min Scan# 737

Delta R.T. 0.01 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

Tgt Ion: 41 Resp: 215

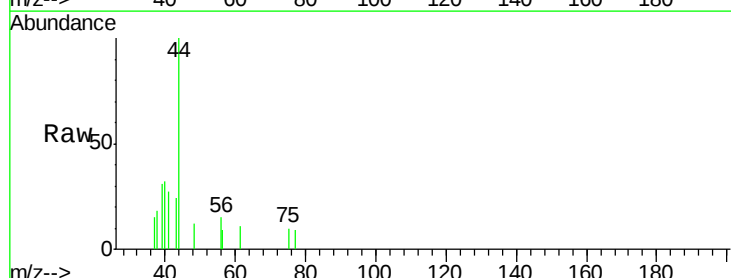
Ion Ratio Lower Upper

41 100

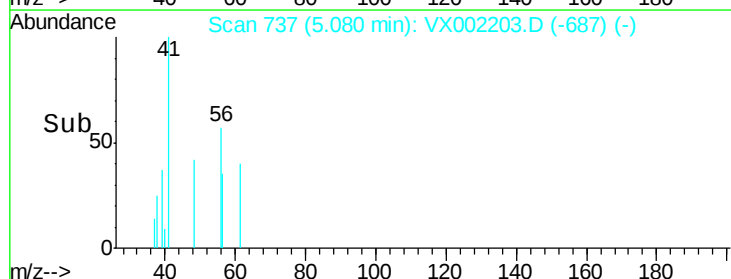
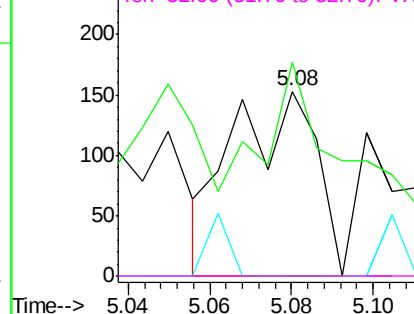
39 158.6 46.0 69.0#

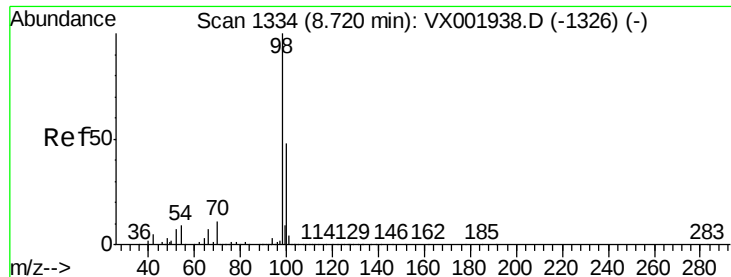
67 8.8 50.6 75.8#

52 0.0 21.9 32.9#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#50

Toluene-d8

Concen: 47.42 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

Instrument :

MSVOA_X

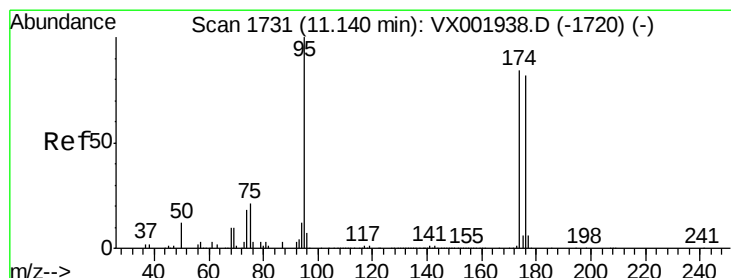
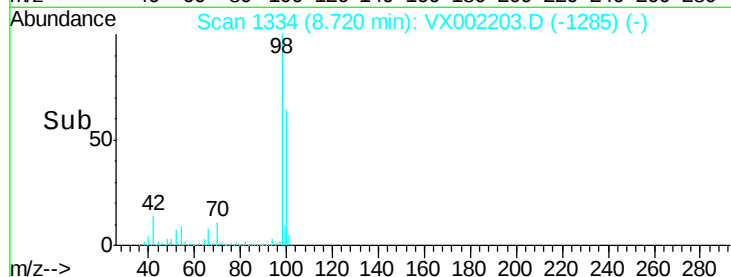
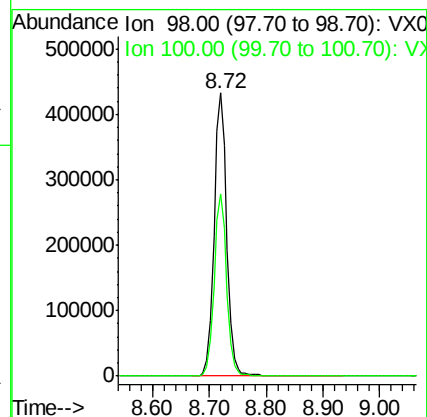
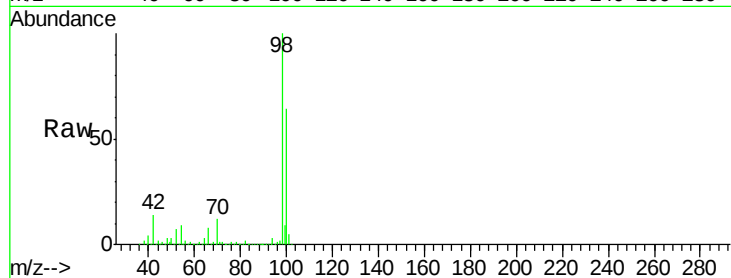
ClientSampleId :

Tot Ion: 98 Resp: 669871

Ion Ratio Lower Upper

98 100

100 63.7 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 42.68 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

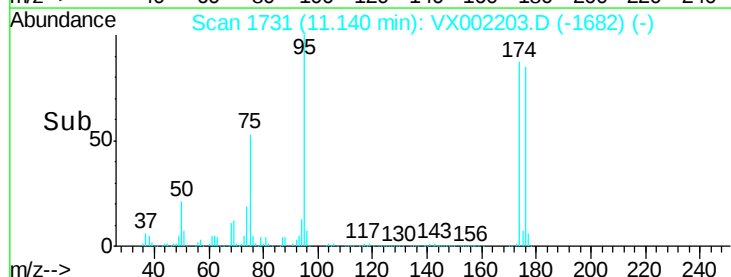
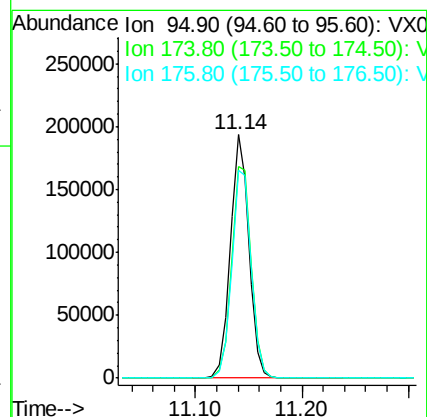
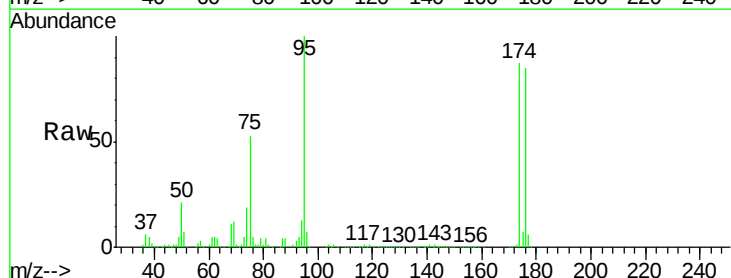
Tgt Ion: 95 Resp: 235924

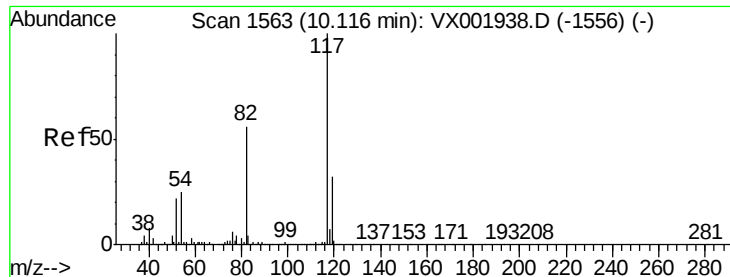
Ion Ratio Lower Upper

95 100

174 92.3 0.0 178.8

176 89.8 0.0 175.6

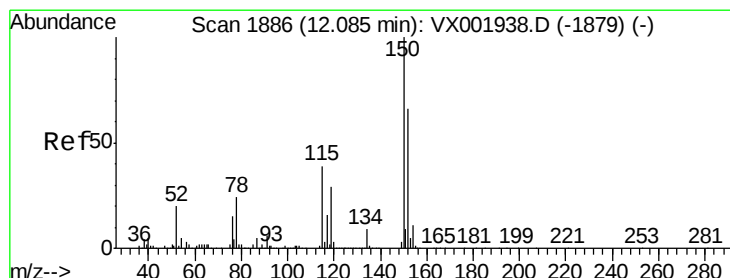
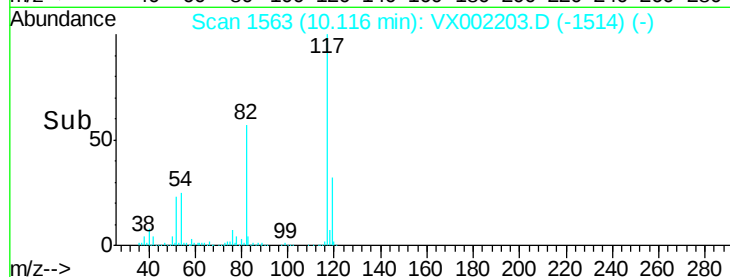
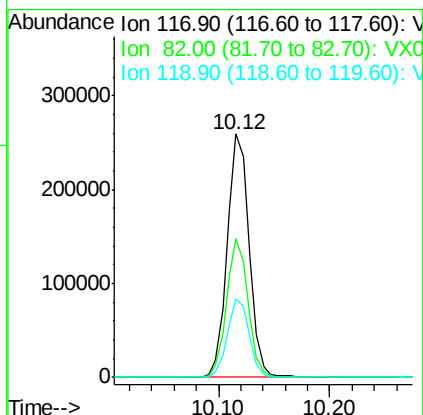
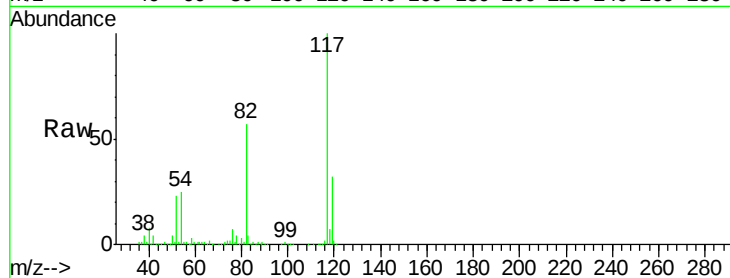




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002203.D
Acq: 01 Jun 2018 07:22

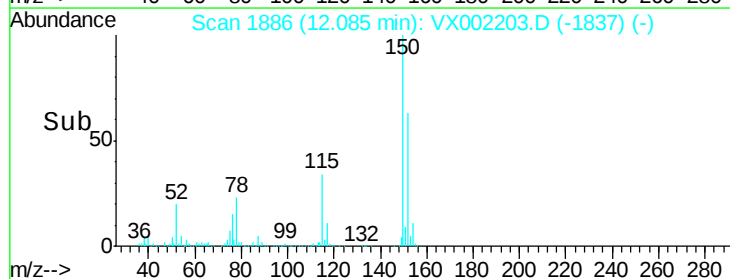
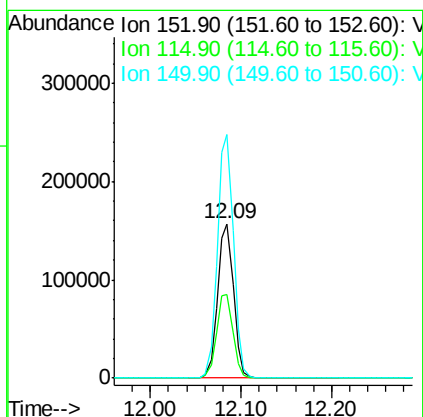
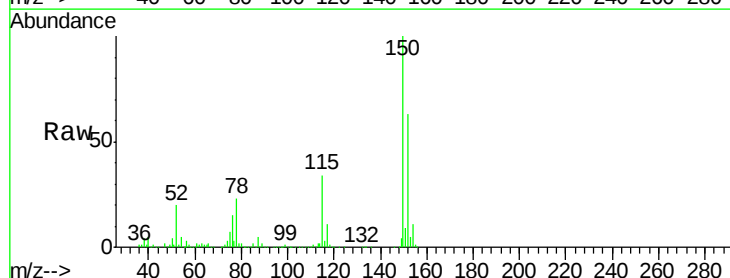
Instrument :
MSVOA_X
ClientSampleId :

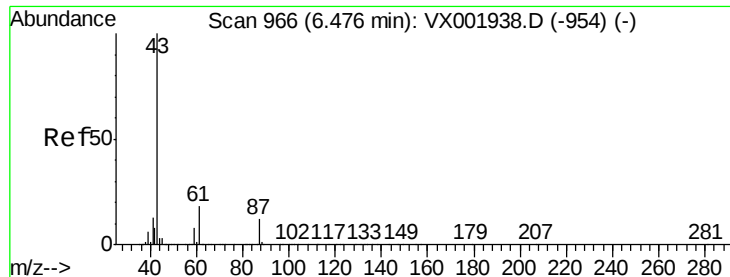
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.2	44.8	67.2
119	32.0	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002203.D
Acq: 01 Jun 2018 07:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.9	42.3	126.8
150	158.8	0.0	351.0





#74

N-amvl acetate

Concen: Below Cal

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 128

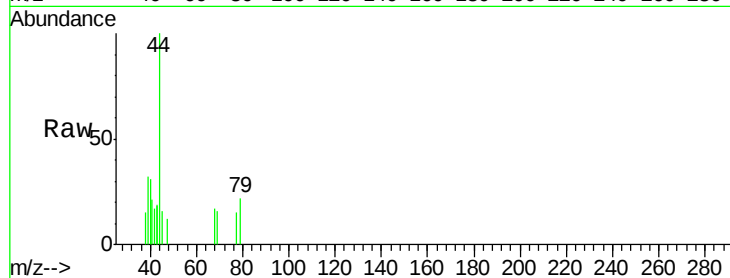
Ion Ratio Lower Upper

43 100

70 0.0 0.1 0.1#

55 38.3 0.1 0.1#

61 0.0 14.5 21.7#

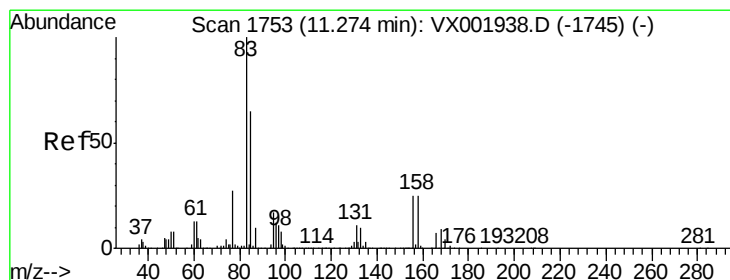
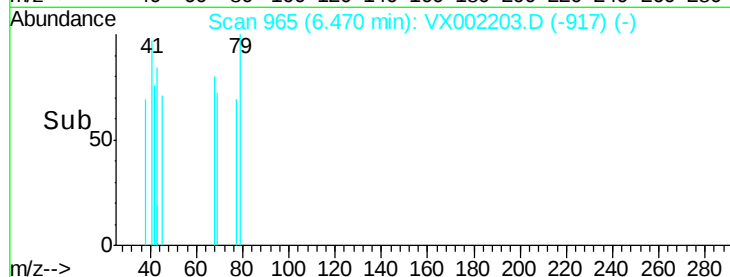
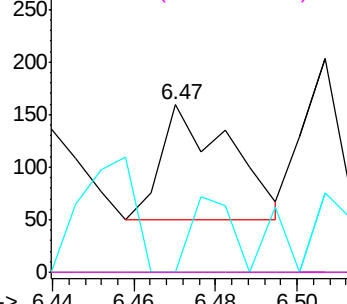


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: Below Cal

RT: 11.14 min Scan# 1731

Delta R.T. -0.13 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

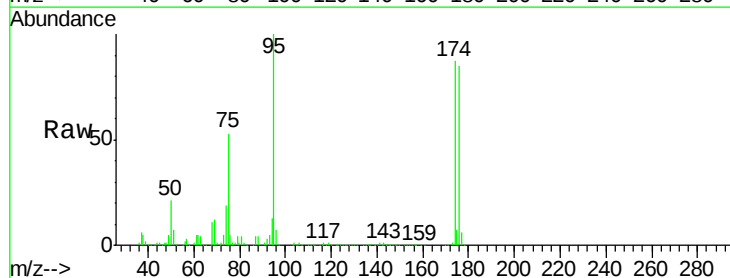
Tgt Ion: 83 Resp: 360

Ion Ratio Lower Upper

83 100

131 112.8 5.7 17.0#

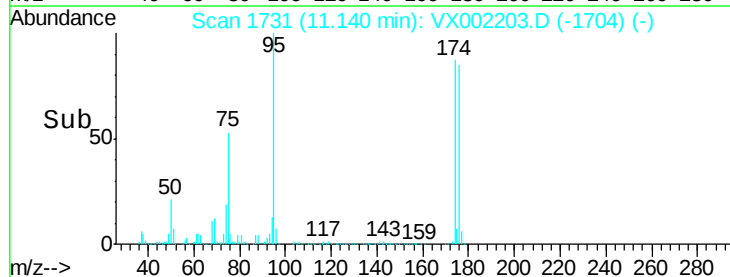
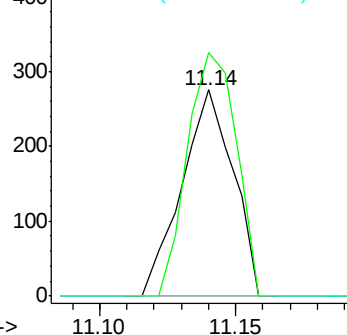
85 0.0 32.6 97.7#

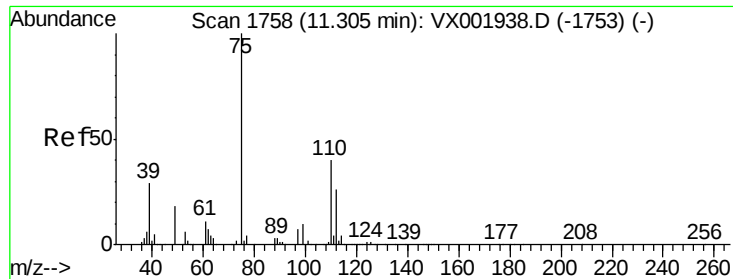


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

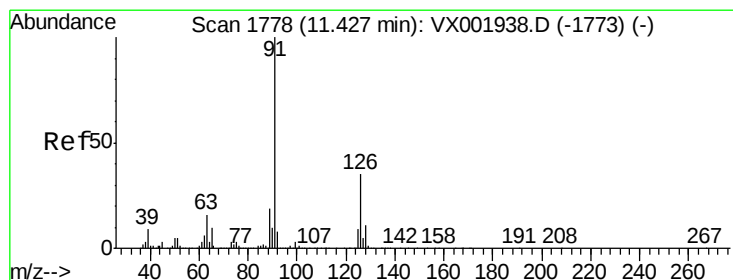
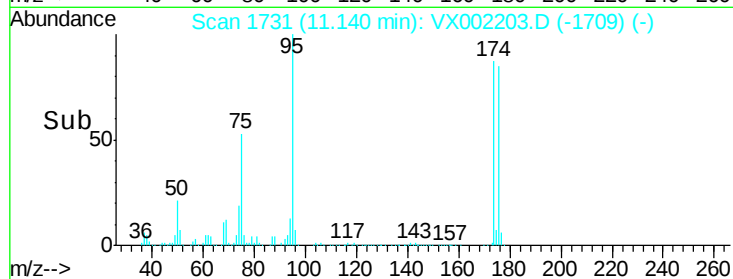
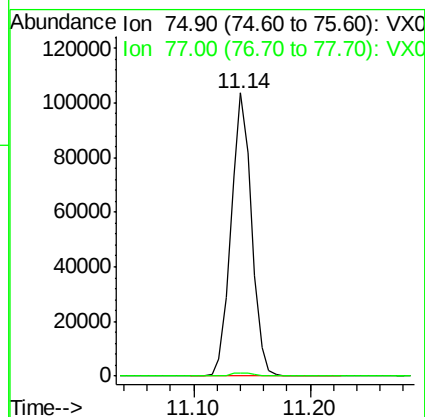
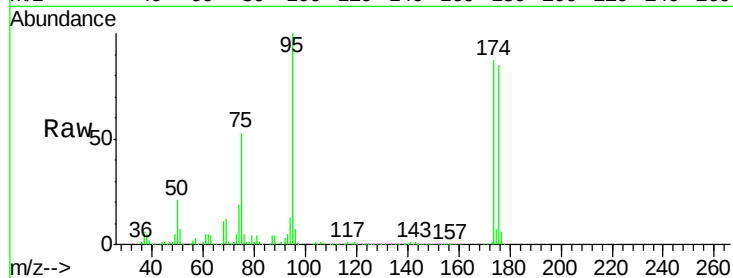




#76
 1,2,3-Trichloropropane
 Concen: 27.18 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002203.D
 Acq: 01 Jun 2018 07:22

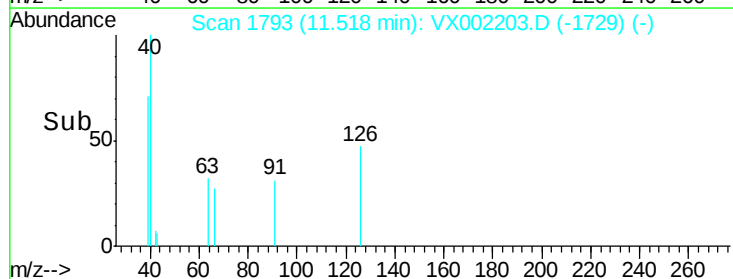
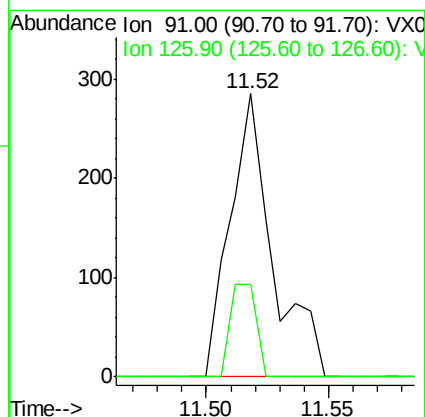
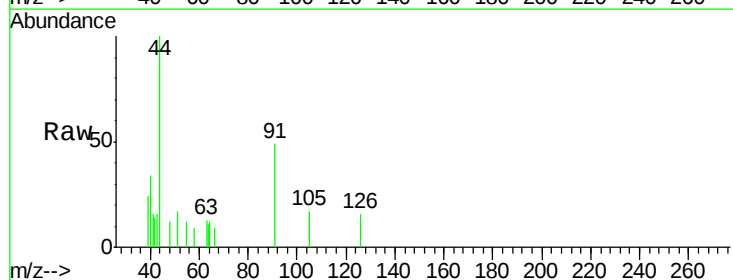
Instrument :
 MSVOA_X
 ClientSampleId :

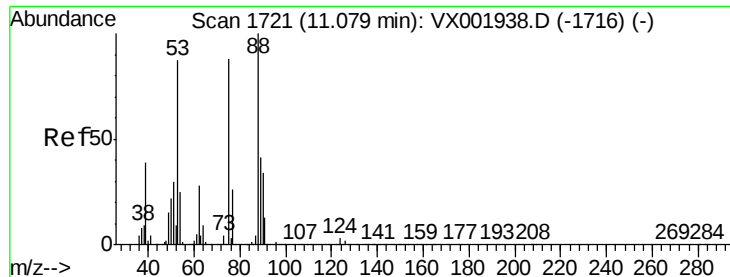
Tot Ion: 75 Resp: 126437
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.52 min Scan# 1793
 Delta R.T. 0.09 min
 Lab File: VX002203.D
 Acq: 01 Jun 2018 07:22

Tgt Ion: 91 Resp: 342
 Ion Ratio Lower Upper
 91 100
 126 19.9 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 65.33 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002203.D

Acq: 01 Jun 2018 07:22

Instrument :

MSVOA_X

ClientSampleId :

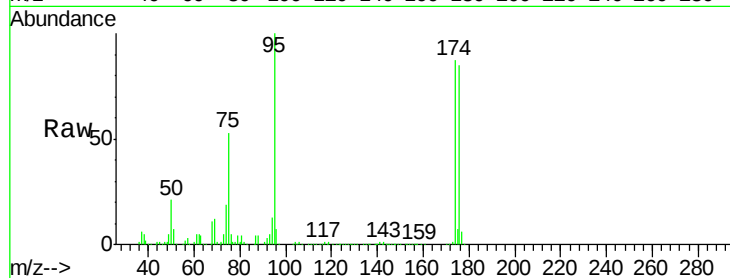
Tot Ion: 75 Resp: 126437

Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 39.4 59.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

