

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071818\
 Data File : VX003447.D
 Acq On : 18 Jul 2018 15:08
 Operator : JC/MD
 Sample : J4008-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 19 01:40:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 13:15:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	308398	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	438040	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	393654	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	212325	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	187096	46.33	ug/l	0.00
Spiked Amount			Recovery	=	92.66%	
35) Dibromofluoromethane	5.51	113	160294	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
50) Toluene-d8	8.72	98	617416	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
62) 4-Bromofluorobenzene	11.14	95	212178	45.44	ug/l	0.00
Spiked Amount			Recovery	=	90.88%	

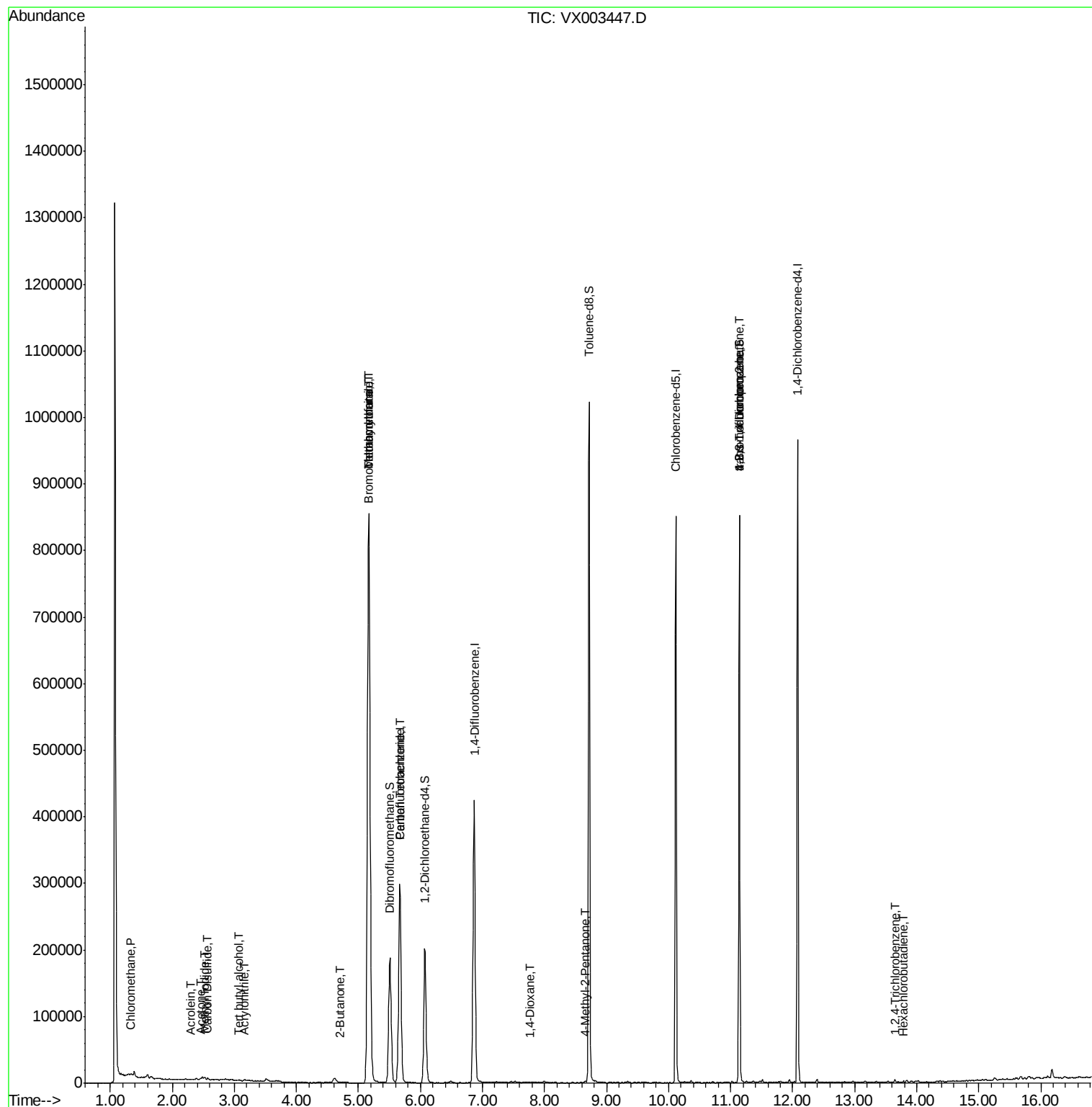
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	840	0.22	ug/l	# 71
5) Bromomethane	1.65	94	2574	Below Cal		100
6) Chloroethane	1.73	64	136	Below Cal		# 43
10) Methyl Iodide	2.52	142	3937	1.07	ug/l	# 89
11) Tert butyl alcohol	3.07	59	1717	1.89	ug/l	# 83
13) Acrolein	2.31	56	244	0.56	ug/l	# 14
15) Acrylonitrile	3.15	53	517	0.25	ug/l	# 95
16) Acetone	2.45	43	1762	1.05	ug/l	# 89
17) Carbon Disulfide	2.57	76	3193	0.36	ug/l	# 86
20) Methylene Chloride	2.86	84	615	Below Cal		# 66
25) 2-Butanone	4.71	43	597	0.23	ug/l	# 52
28) Bromochloromethane	5.15	49	791	0.28	ug/l	# 13
29) Tetrahydrofuran	5.17	42	789648	473.62	ug/l	91
38) Carbon Tetrachloride	5.67	117	26504	5.87	ug/l	# 17
41) Methacrylonitrile	5.17	41	436194	158.69	ug/l	# 46
49) 1,4-Dioxane	7.77	88	19	0.22	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.65	43	1592	0.32	ug/l	89
76) 1,2,3-Trichloropropane	11.14	75	101317	26.36	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	101317	85.63	ug/l	# 7
93) 1,2,4-Trichlorobenzene	13.65	180	1100	0.23	ug/l	99
94) Hexachlorobutadiene	13.79	225	483	0.21	ug/l	97

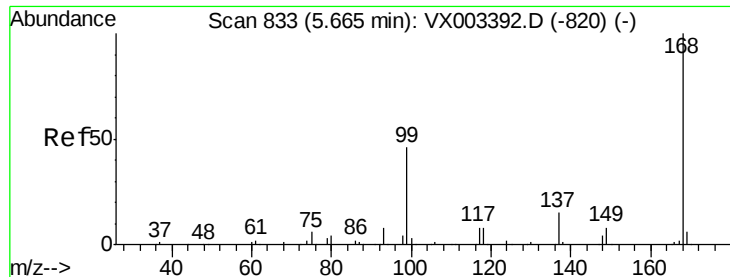
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jul 16 13:15:28 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003447.D

Acq: 18 Jul 2018 15:08

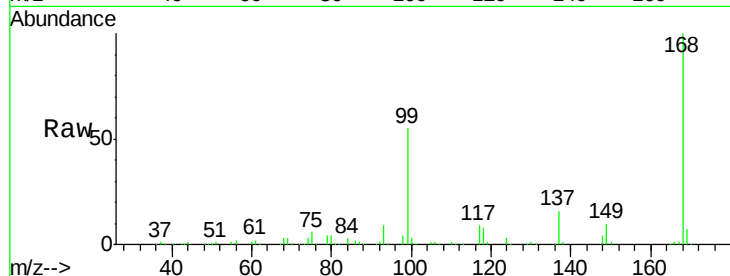
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 308398

Ion Ratio Lower Upper

168 100

99 54.7 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

120000

100000

80000

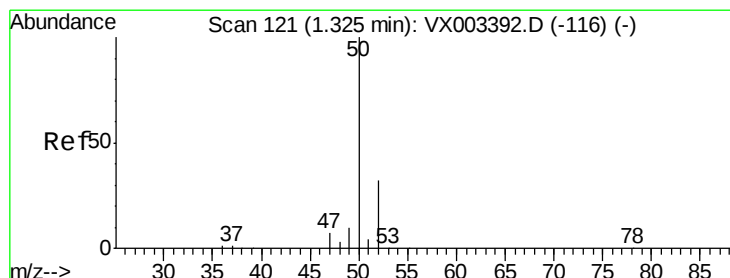
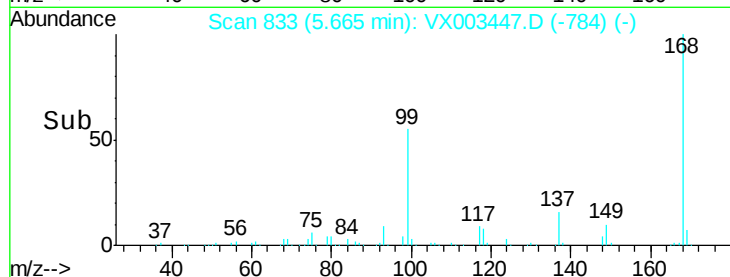
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.22 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003447.D

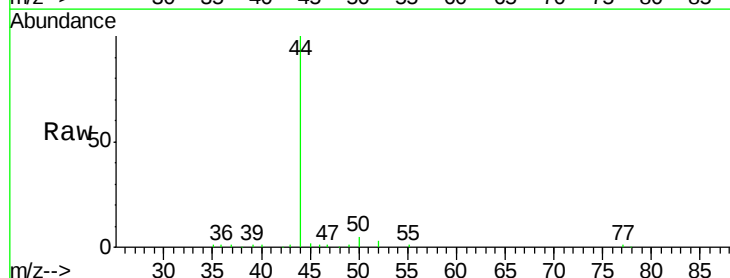
Acq: 18 Jul 2018 15:08

Tgt Ion: 50 Resp: 840

Ion Ratio Lower Upper

50 100

52 48.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

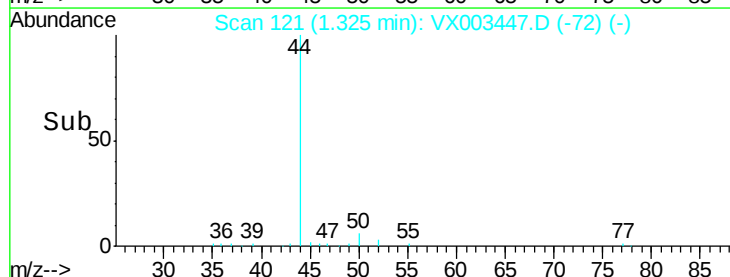
600

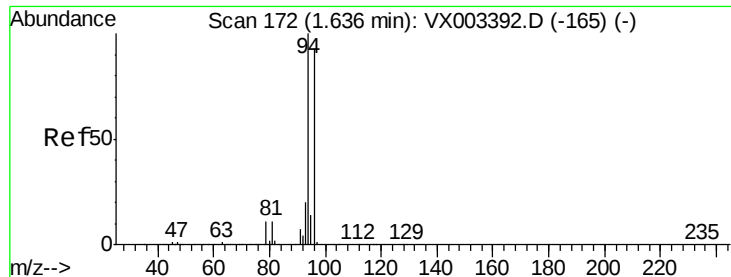
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003447.D

Acq: 18 Jul 2018 15:08

Instrument :

MSVOA_X

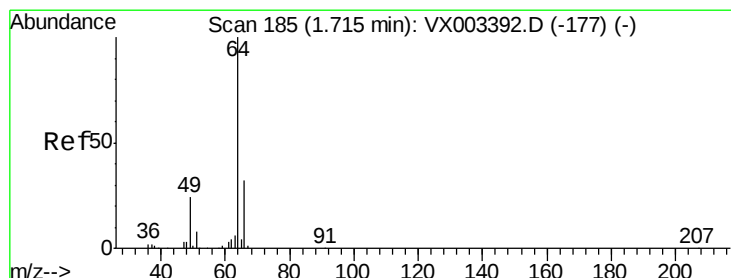
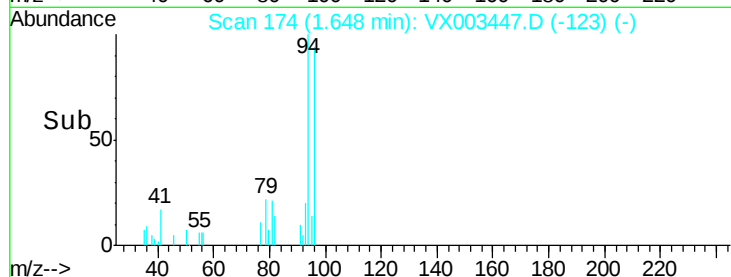
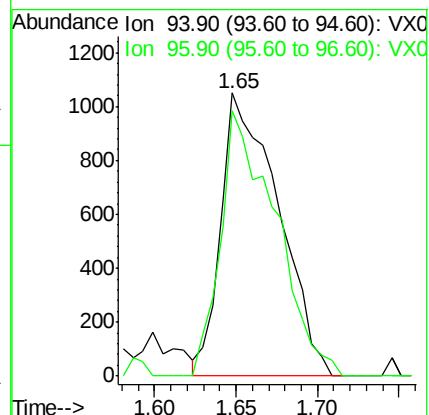
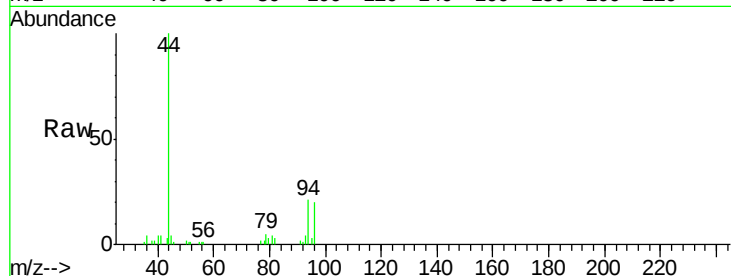
ClientSampleId :

Tot Ion: 94 Resp: 2574

Ion Ratio Lower Upper

94 100

96 93.9 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.02 min

Lab File: VX003447.D

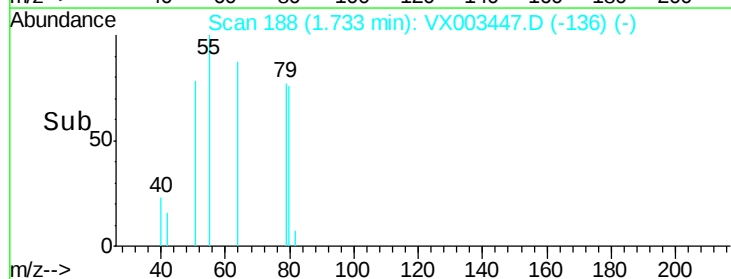
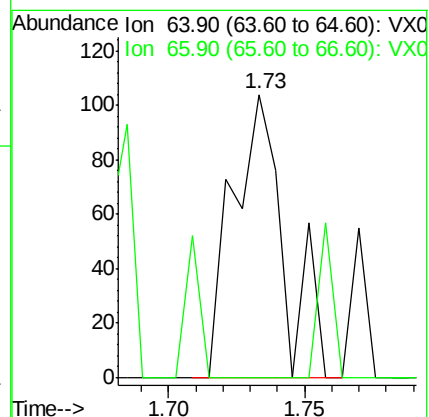
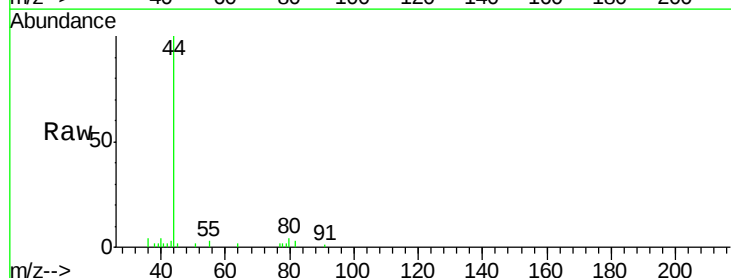
Acq: 18 Jul 2018 15:08

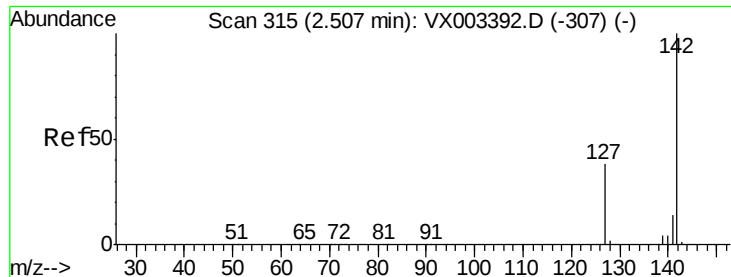
Tgt Ion: 64 Resp: 136

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

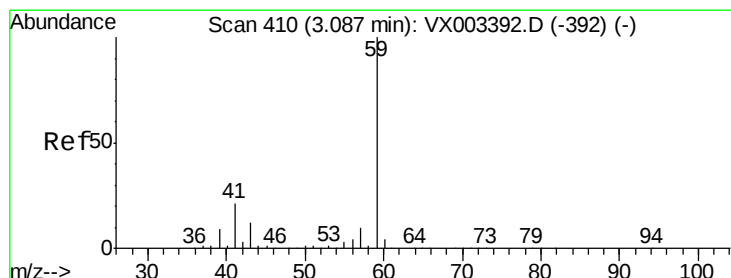
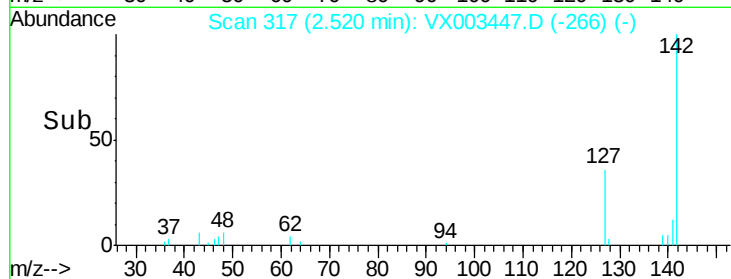
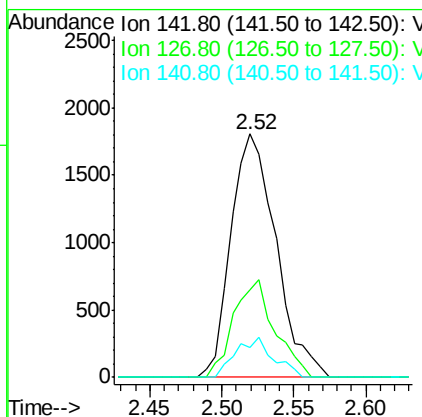
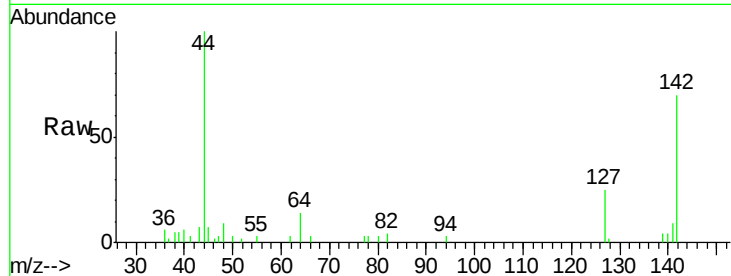




#10
Methvl Iodide
Concen: 1.07 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003447.D
Acq: 18 Jul 2018 15:08

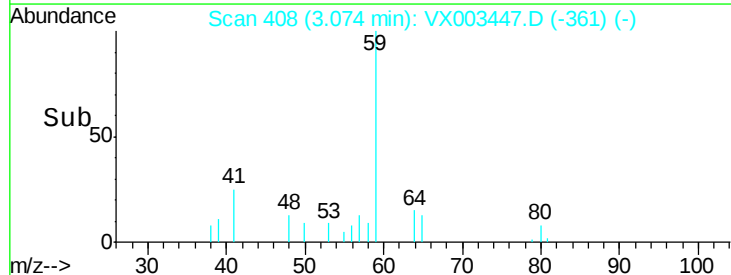
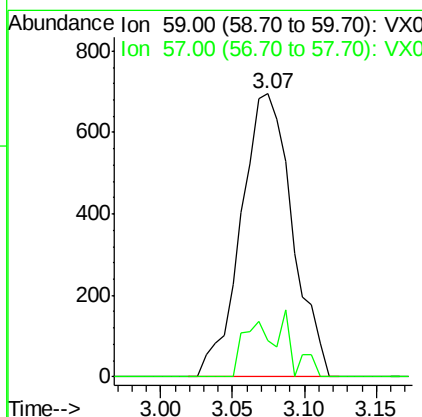
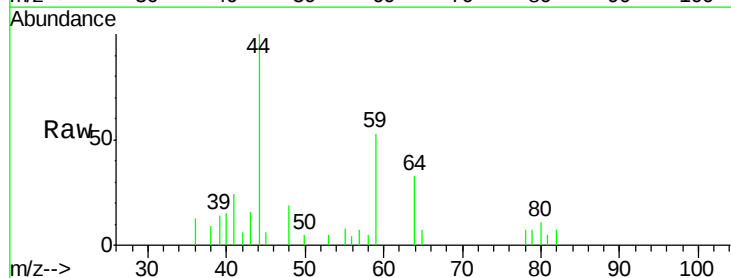
Instrument :
MSVOA_X
ClientSampleId :

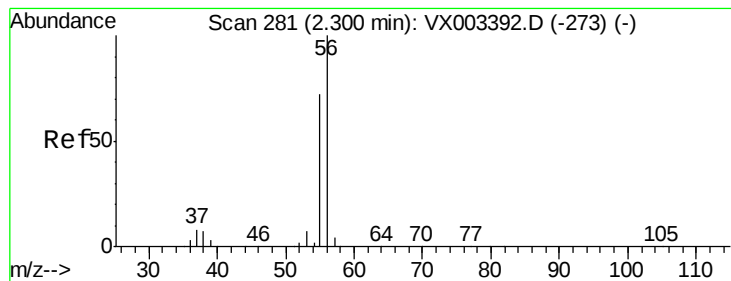
Tot Ion:142 Resp: 3937
Ion Ratio Lower Upper
142 100
127 36.6 36.6 55.0#
141 13.9 11.3 16.9



#11
Tert butyl alcohol
Concen: 1.89 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003447.D
Acq: 18 Jul 2018 15:08

Tgt Ion: 59 Resp: 1717
Ion Ratio Lower Upper
59 100
57 16.7 8.2 12.2#





#13

Acrolein

Concen: 0.56 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX003447.D

Acq: 18 Jul 2018 15:08

Instrument :

MSVOA_X

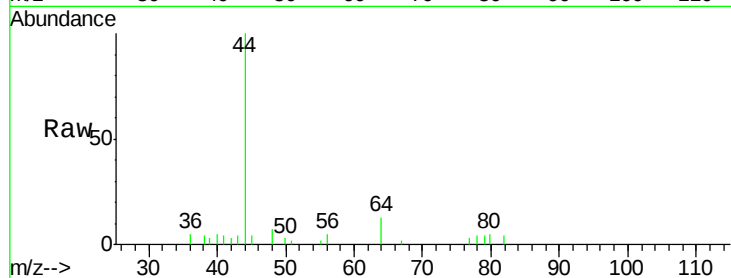
ClientSampleId :

Tot Ion: 56 Resp: 244

Ion Ratio Lower Upper

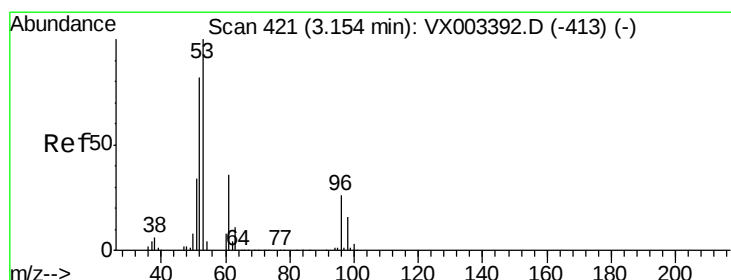
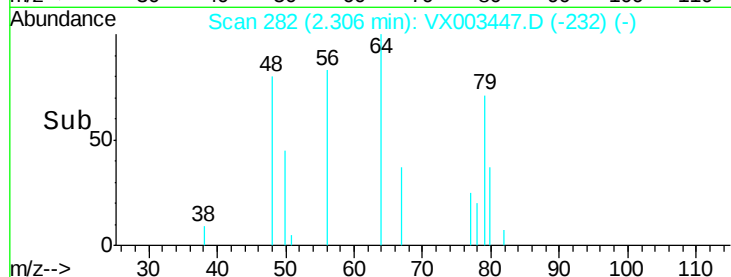
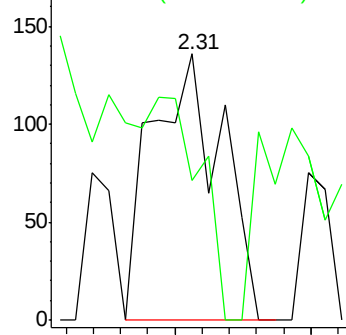
56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.25 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX003447.D

Acq: 18 Jul 2018 15:08

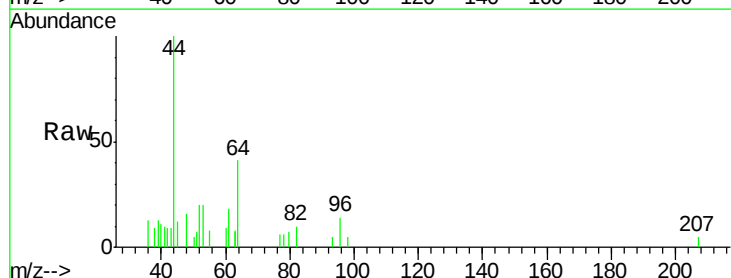
Tgt Ion: 53 Resp: 517

Ion Ratio Lower Upper

53 100

52 82.2 66.7 100.1

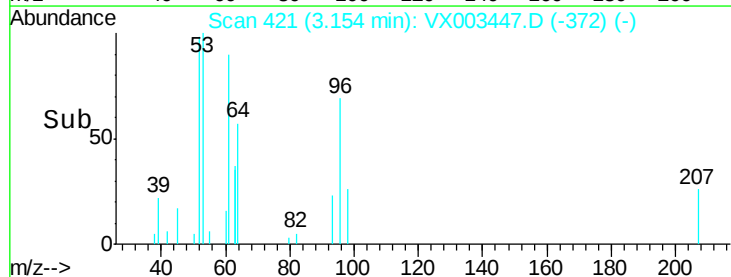
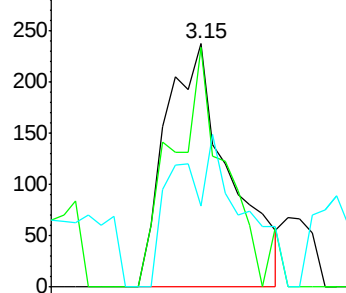
51 29.2 29.9 44.9#

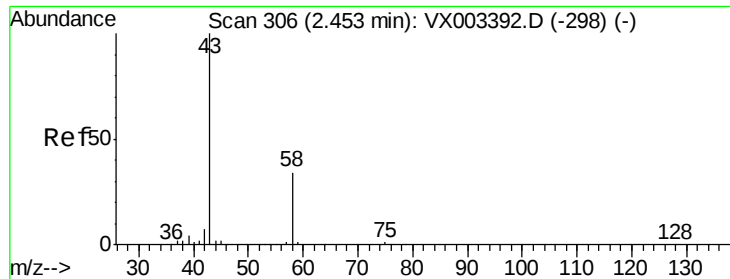


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.05 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX003447.D

Acq: 18 Jul 2018 15:08

Instrument :

MSVOA_X

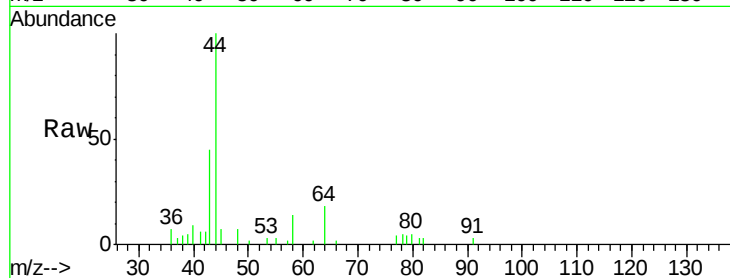
ClientSampled :

Tot Ion: 43 Resp: 1762

Ion Ratio Lower Upper

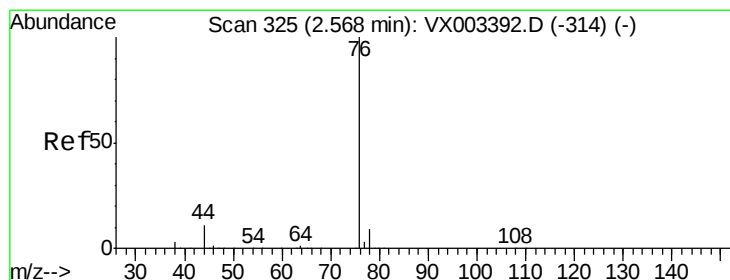
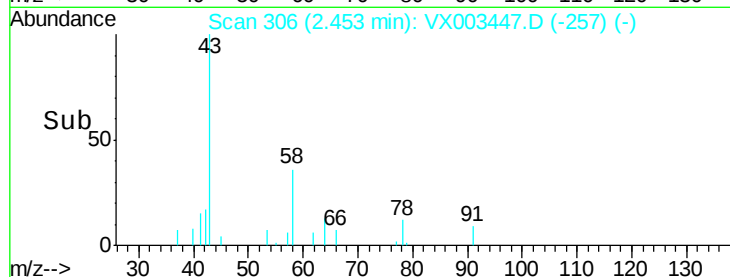
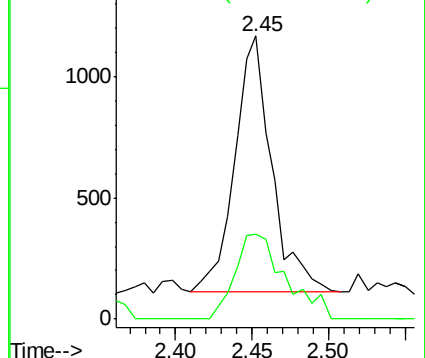
43 100

58 33.1 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.36 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003447.D

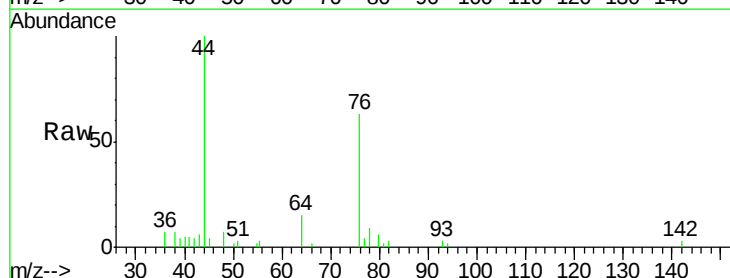
Acq: 18 Jul 2018 15:08

Tgt Ion: 76 Resp: 3193

Ion Ratio Lower Upper

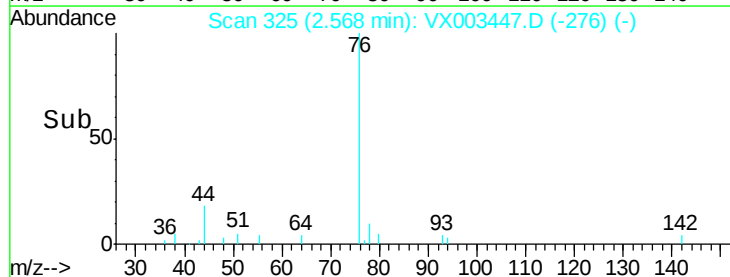
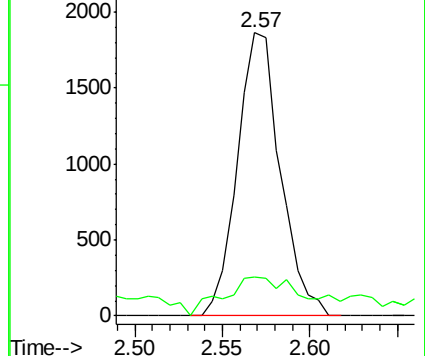
76 100

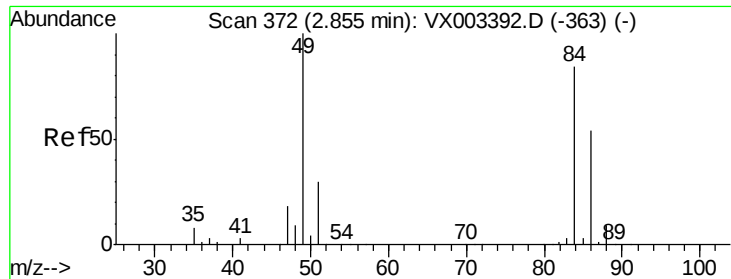
78 13.6 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

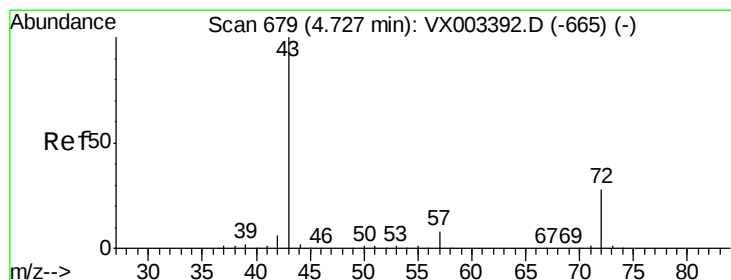
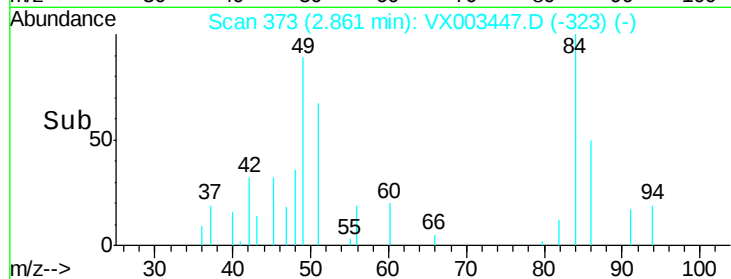
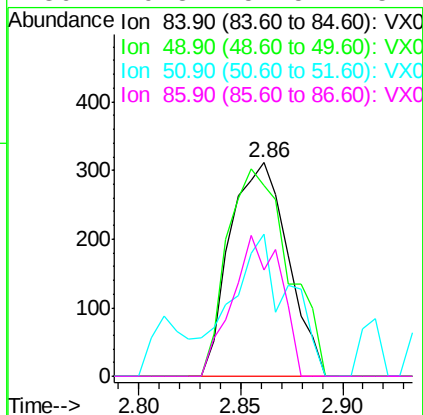
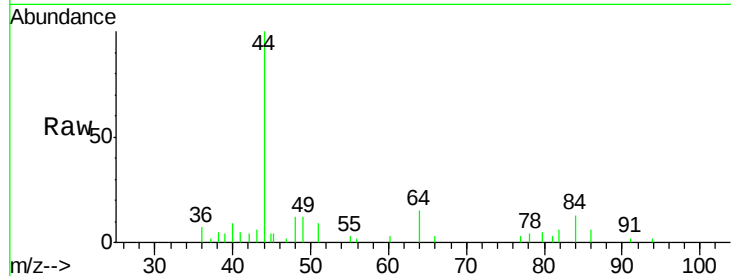




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003447.D
Acq: 18 Jul 2018 15:08

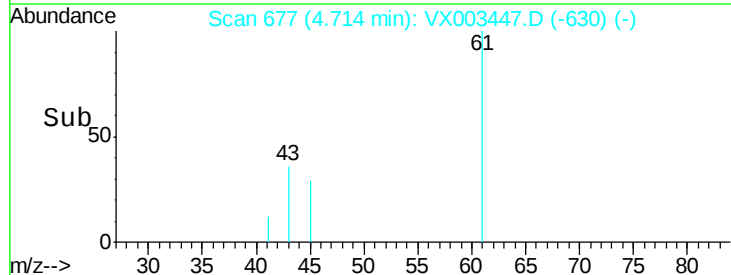
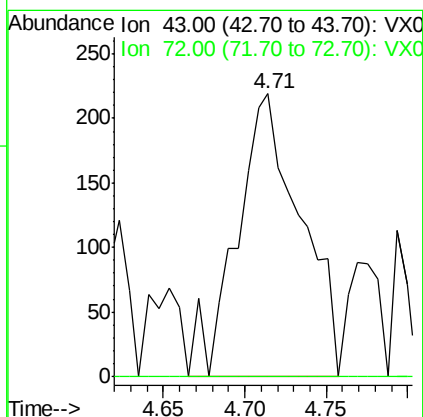
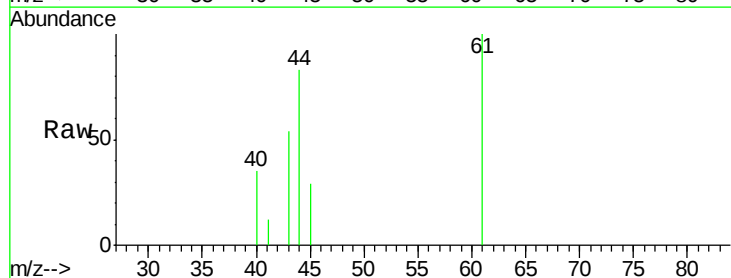
Instrument :
MSVOA_X
ClientSampled :

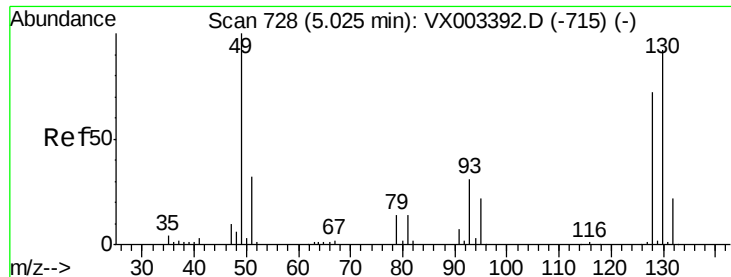
Tot Ion: 84 Resp: 615
Ion Ratio Lower Upper
84 100
49 89.4 107.8 161.6#
51 66.6 32.8 49.2#
86 49.8 52.5 78.7#



#25
2-Butanone
Concen: 0.23 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.01 min
Lab File: VX003447.D
Acq: 18 Jul 2018 15:08

Tgt Ion: 43 Resp: 597
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#28

Bromochloromethane

Concen: 0.28 ug/l

RT: 5.15 min Scan# 749

Delta R.T. 0.13 min

Lab File: VX003447.D

Acq: 18 Jul 2018 15:08

Instrument :

MSVOA_X

ClientSampled :

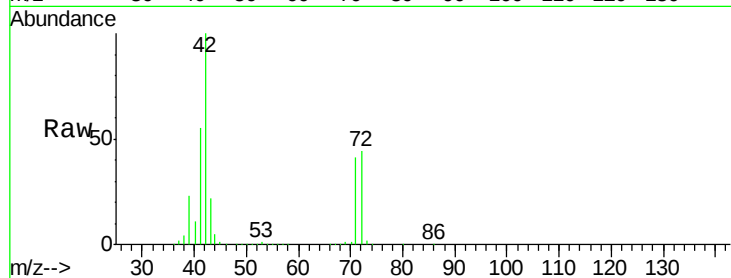
Tot Ion: 49 Resp: 791

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

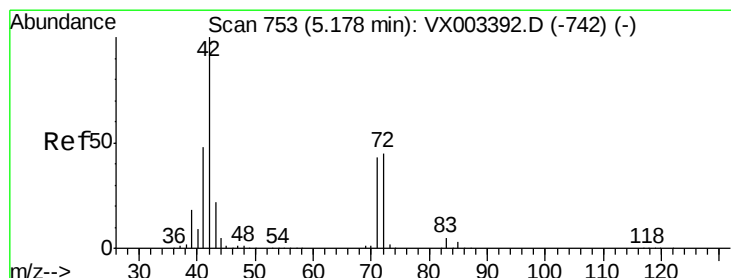
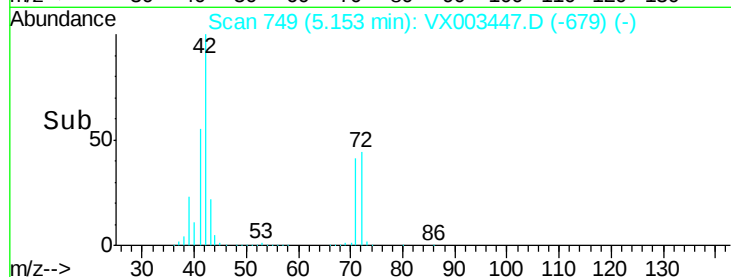
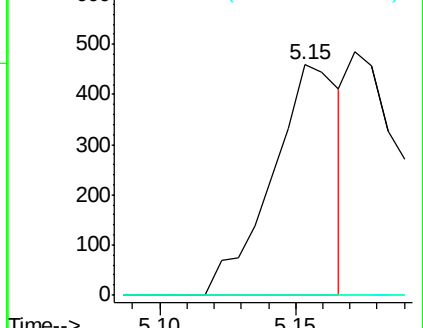
130 0.0 61.2 91.8#



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



#29

Tetrahydrofuran

Concen: 473.62 ug/l

RT: 5.17 min Scan# 751

Delta R.T. -0.01 min

Lab File: VX003447.D

Acq: 18 Jul 2018 15:08

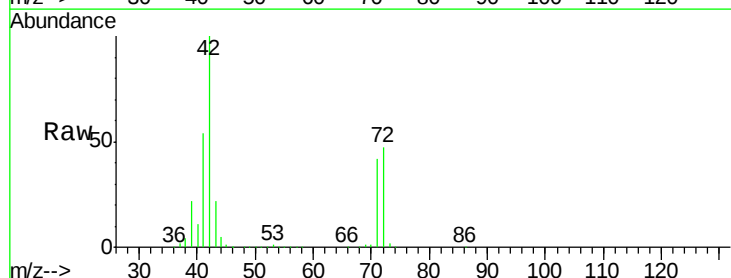
Tgt Ion: 42 Resp: 789648

Ion Ratio Lower Upper

42 100

72 45.8 32.0 48.0

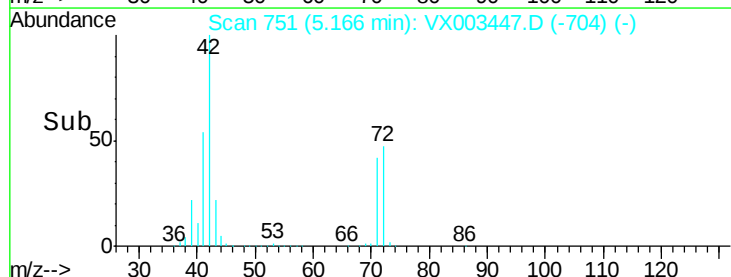
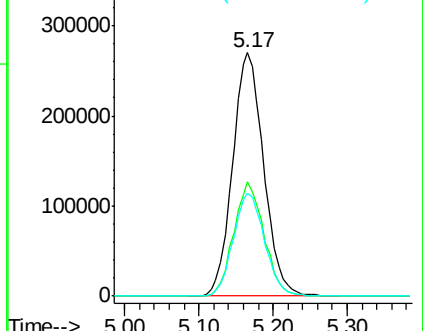
71 42.6 30.1 45.1

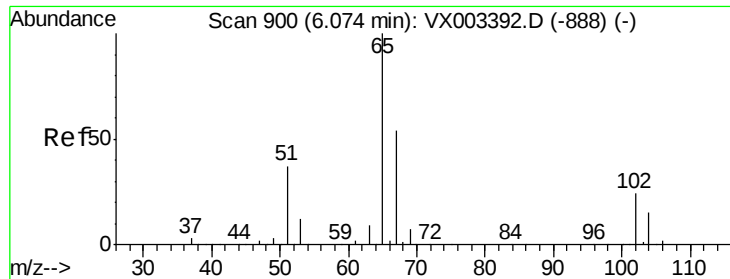


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.33 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.01 min

Lab File: VX003447.D

Acq: 18 Jul 2018 15:08

Instrument :

MSVOA_X

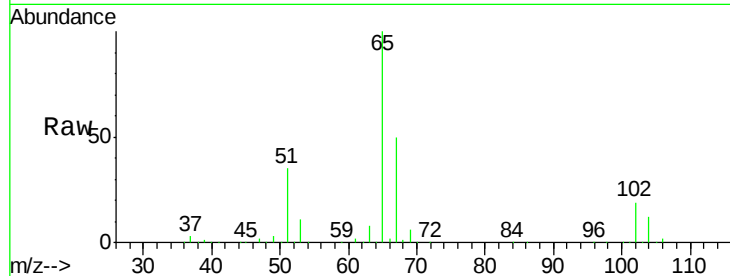
ClientSampleId :

Tot Ion: 65 Resp: 187096

Ion Ratio Lower Upper

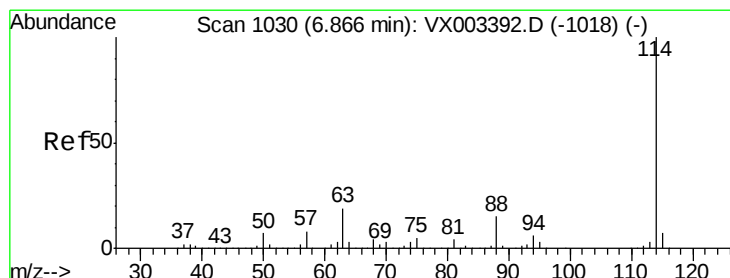
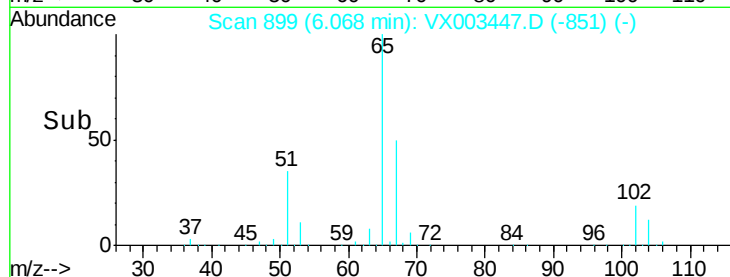
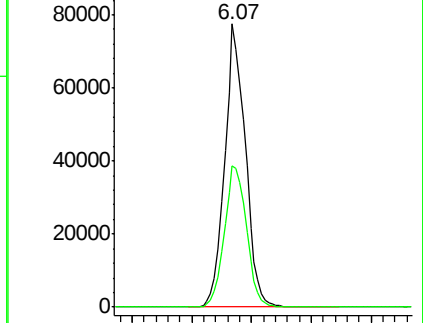
65 100

67 53.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX003447.D

Acq: 18 Jul 2018 15:08

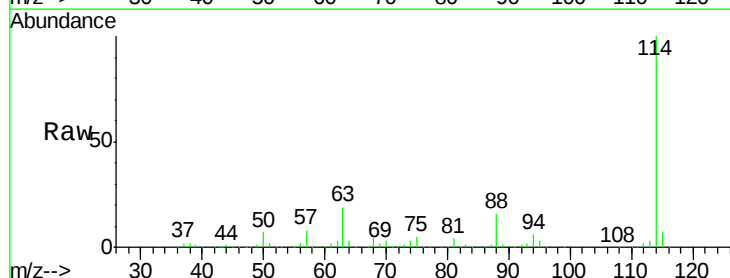
Tgt Ion: 114 Resp: 438040

Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.4

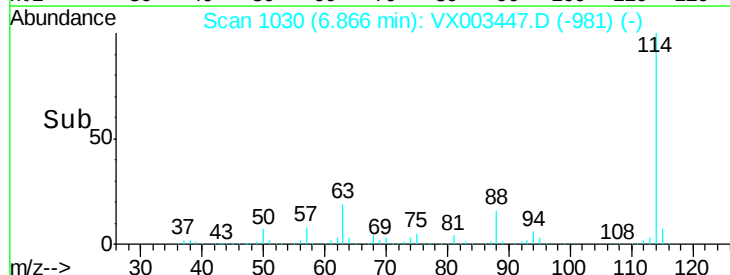
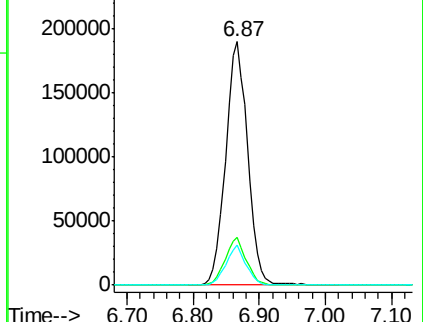
88 16.3 0.0 30.0

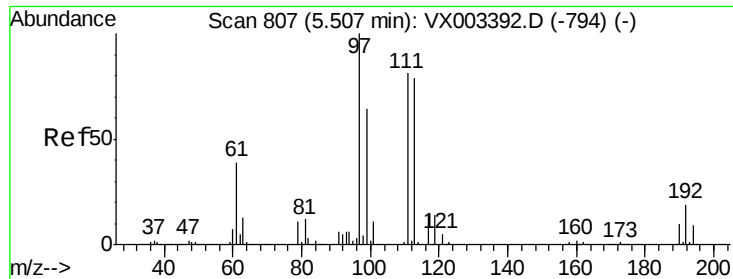


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

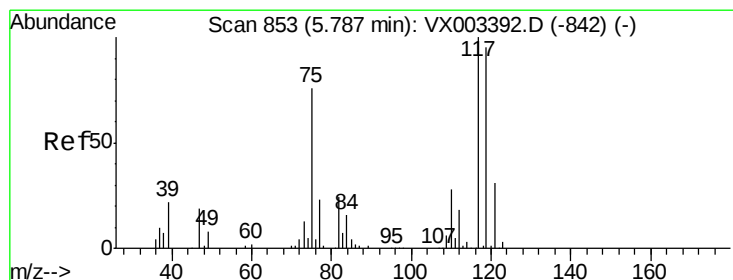
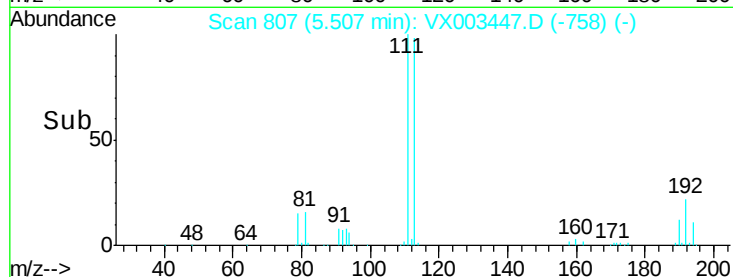
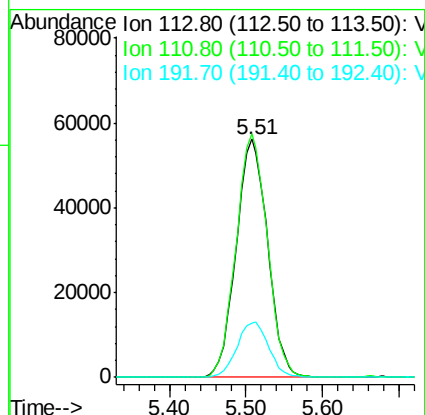
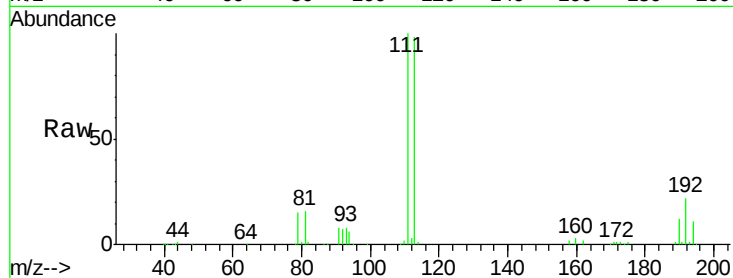




#35
Dibromofluoromethane
Concen: 45.23 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.00 min
Lab File: VX003447.D
Acq: 18 Jul 2018 15:08

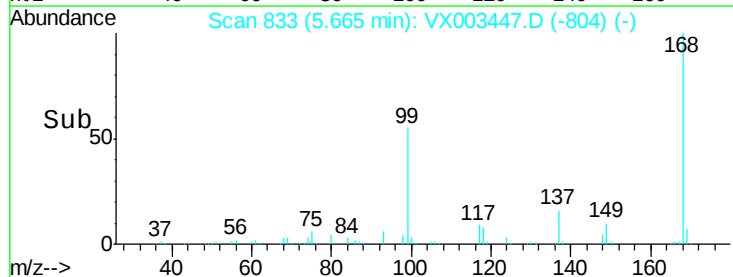
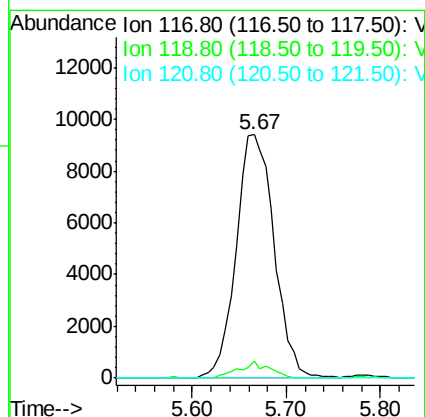
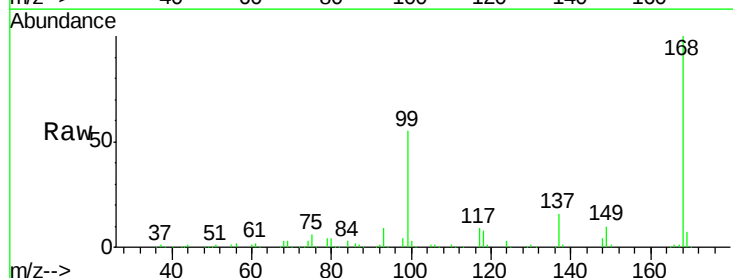
Instrument :
MSVOA_X
ClientSampleId :

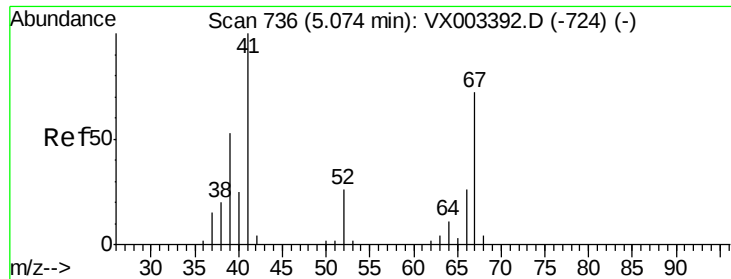
Tot Ion:113 Resp: 160294
Ion Ratio Lower Upper
113 100
111 101.5 81.4 122.0
192 23.4 19.1 28.7



#38
Carbon Tetrachloride
Concen: 5.87 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003447.D
Acq: 18 Jul 2018 15:08

Tgt Ion:117 Resp: 26504
Ion Ratio Lower Upper
117 100
119 6.8 77.4 116.0#
121 0.0 24.4 36.6#

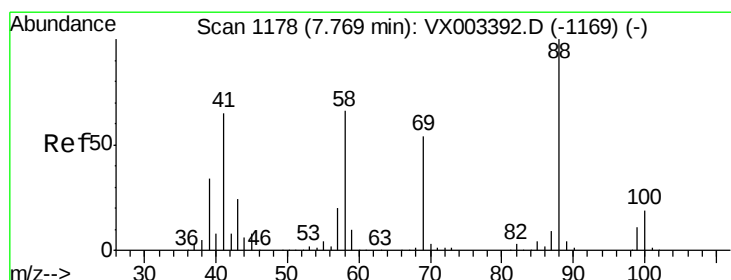
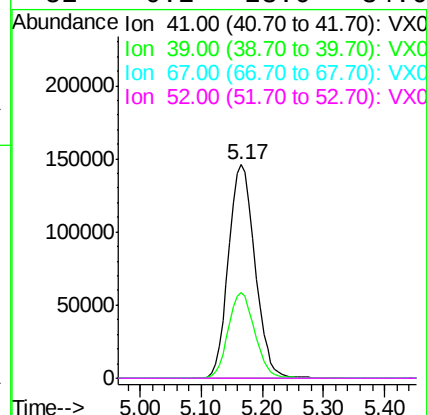
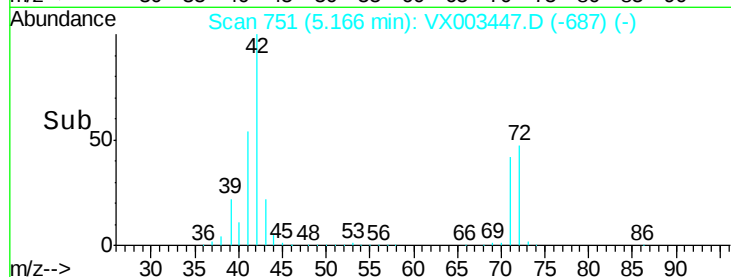
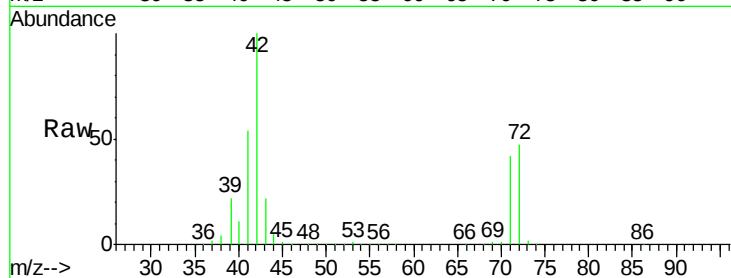




#41
Methacrylonitrile
Concen: 158.69 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.09 min
Lab File: VX003447.D
Acq: 18 Jul 2018 15:08

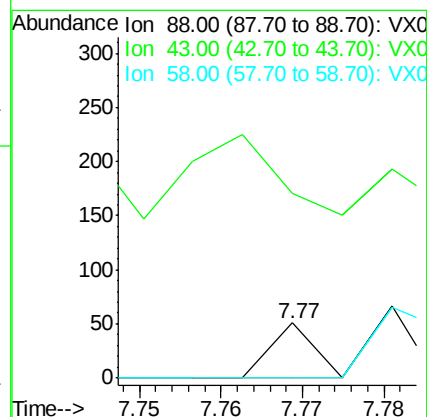
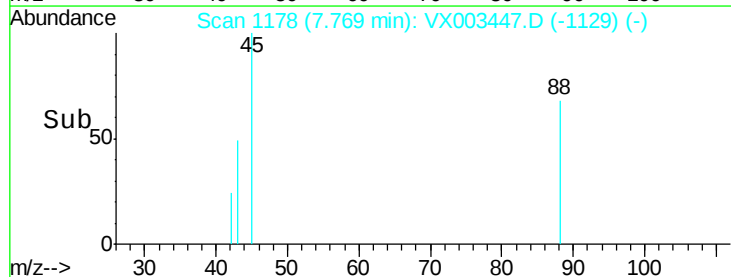
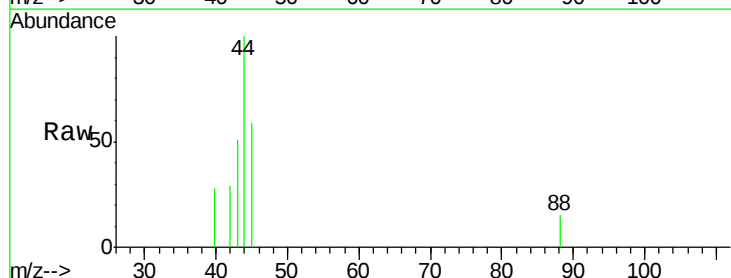
Instrument :
MSVOA_X
ClientSampled :

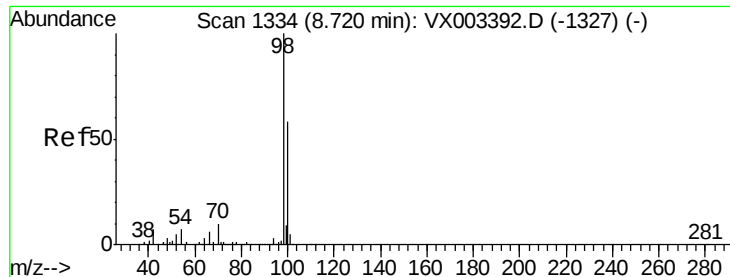
Tot Ion: 41 Resp: 436194
Ion Ratio Lower Upper
41 100
39 40.2 45.8 68.6#
67 0.0 51.3 76.9#
52 0.2 23.0 34.6#



#49
1,4-Dioxane
Concen: 0.22 ug/l
RT: 7.77 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VX003447.D
Acq: 18 Jul 2018 15:08

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 29.8 44.6#
58 231.6 57.1 85.7#





#50

Toluene-d8

Concen: 47.21 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003447.D

Acq: 18 Jul 2018 15:08

Instrument :

MSVOA_X

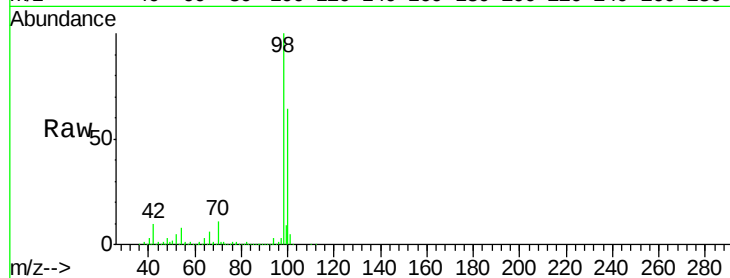
ClientSampled :

Tot Ion: 98 Resp: 617416

Ion Ratio Lower Upper

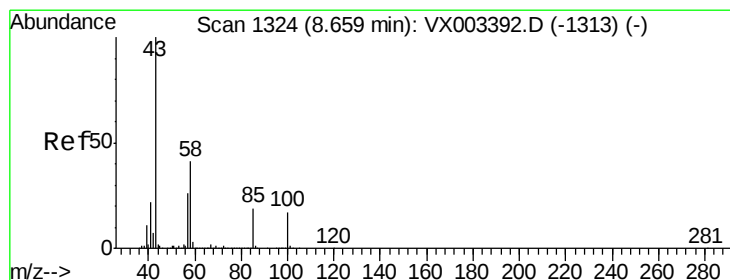
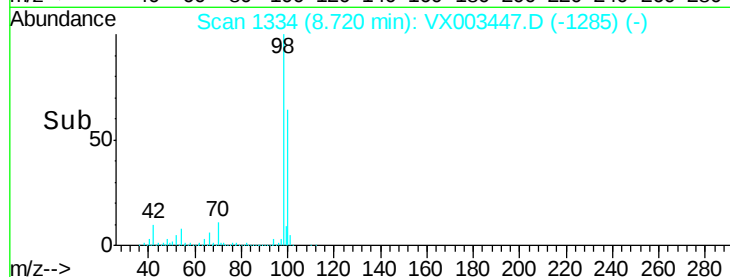
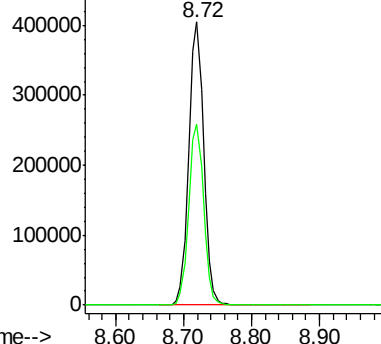
98 100

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



#51

4-Methyl-2-Pentanone

Concen: 0.32 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VX003447.D

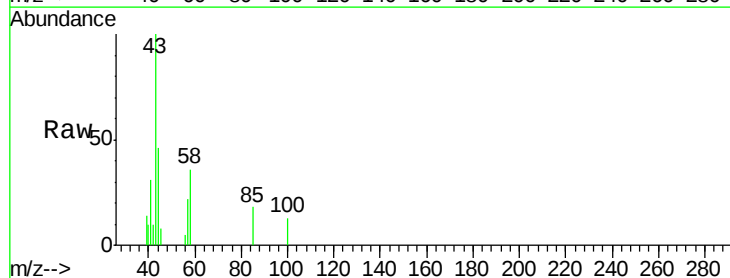
Acq: 18 Jul 2018 15:08

Tgt Ion: 43 Resp: 1592

Ion Ratio Lower Upper

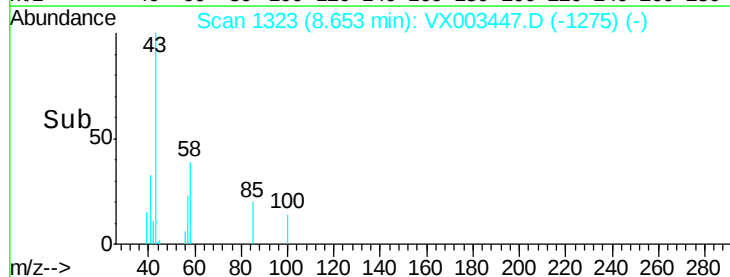
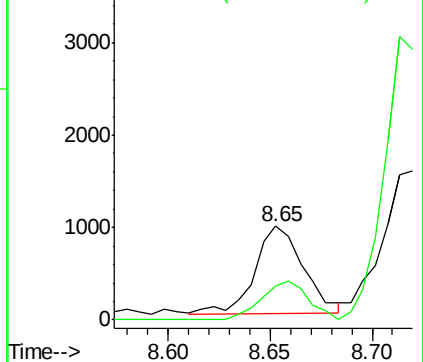
43 100

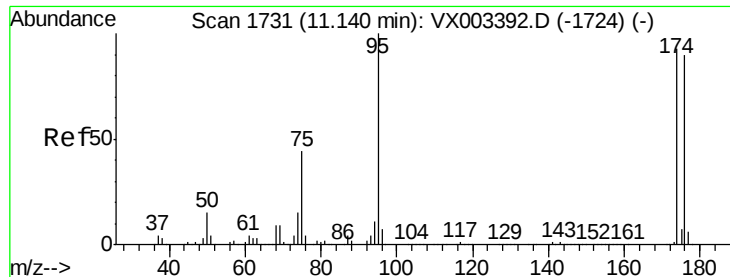
58 42.0 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

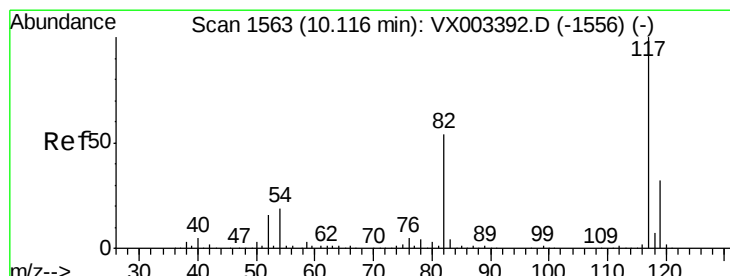
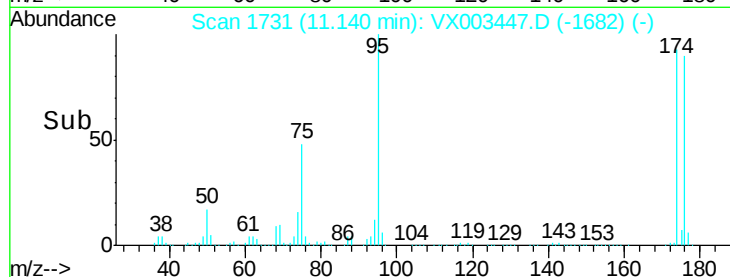
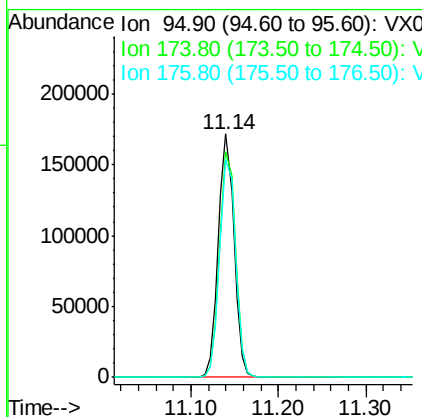
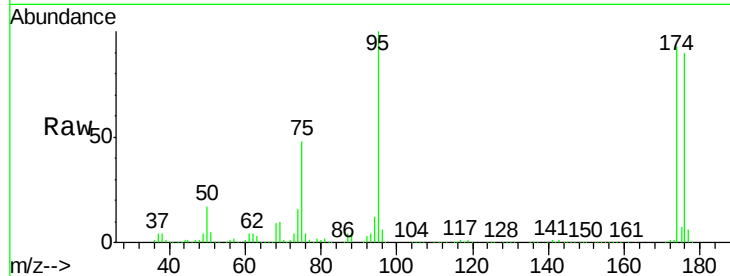




#62
4-Bromofluorobenzene
Concen: 45.44 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003447.D
Acq: 18 Jul 2018 15:08

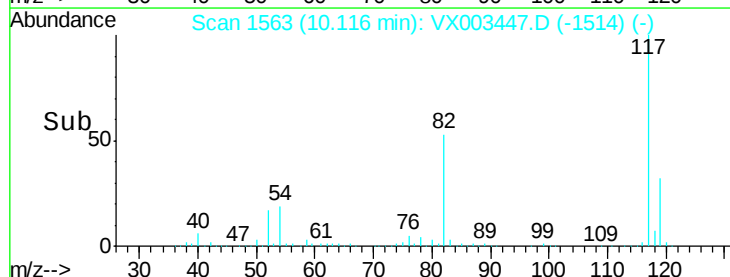
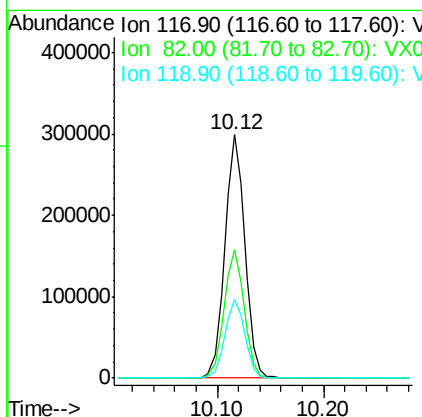
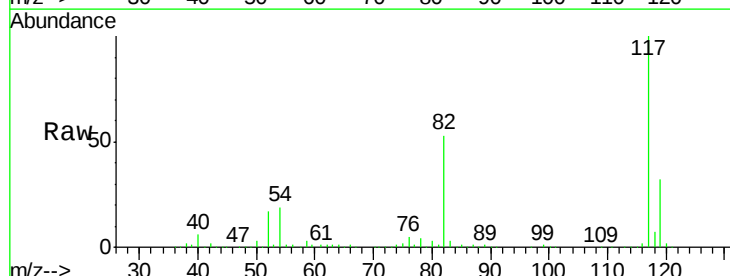
Instrument :
MSVOA_X
ClientSampleId :

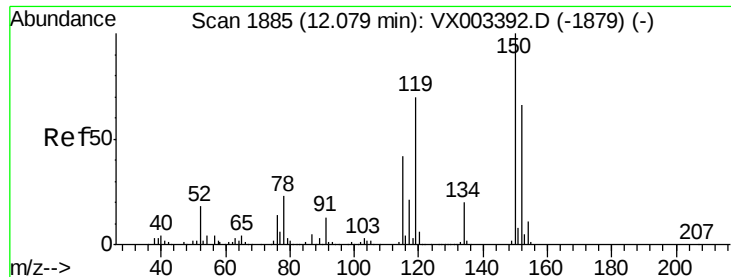
Tot Ion: 95 Resp: 212178
Ion Ratio Lower Upper
95 100
174 95.0 0.0 187.4
176 91.6 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003447.D
Acq: 18 Jul 2018 15:08

Tgt Ion: 117 Resp: 393654
Ion Ratio Lower Upper
117 100
82 52.7 45.0 67.4
119 32.4 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VX003447.D

Acq: 18 Jul 2018 15:08

Instrument :

MSVOA_X

ClientSampleId :

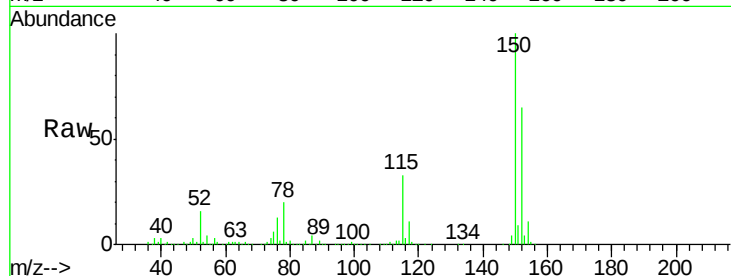
Tot Ion:152 Resp: 212325

Ion Ratio Lower Upper

152 100

115 54.8 40.1 120.2

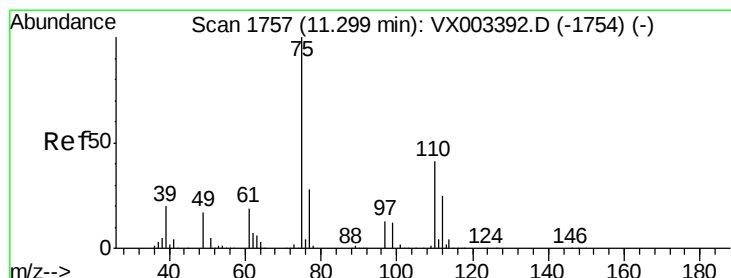
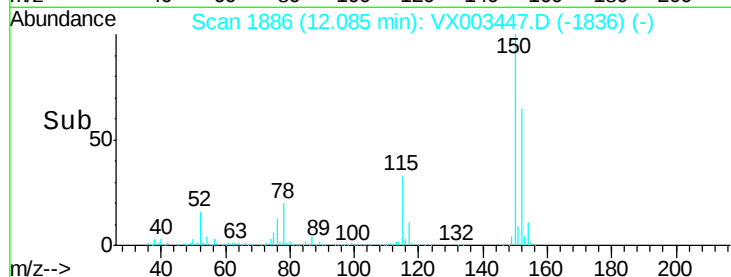
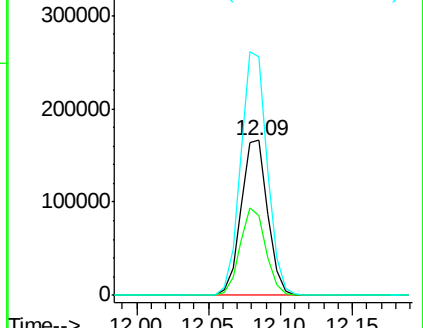
150 156.5 0.0 347.2



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: 26.36 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003447.D

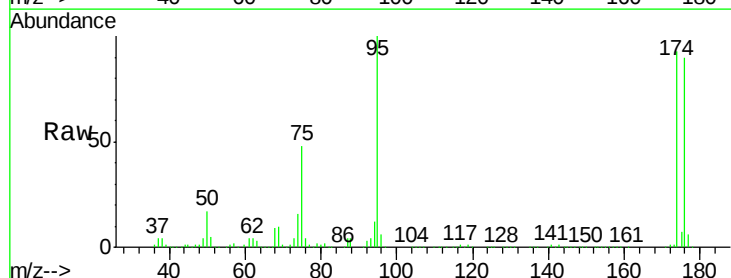
Acq: 18 Jul 2018 15:08

Tgt Ion: 75 Resp: 101317

Ion Ratio Lower Upper

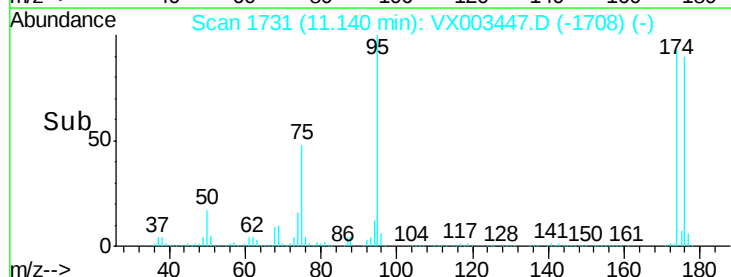
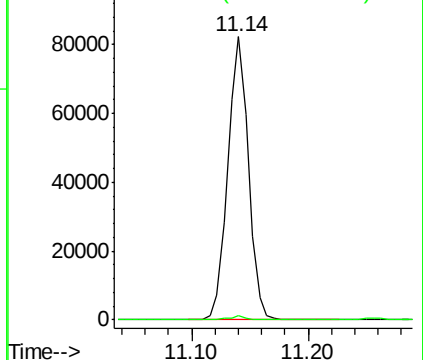
75 100

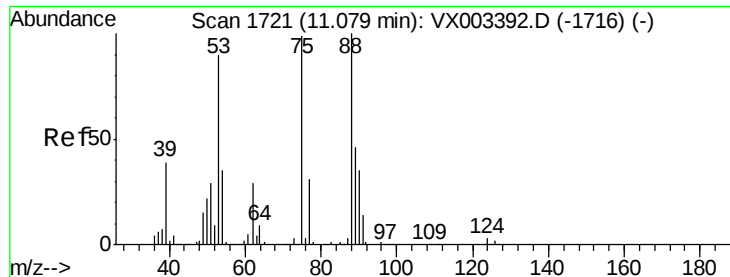
77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

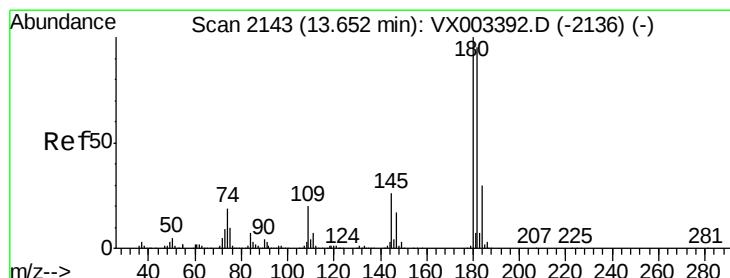
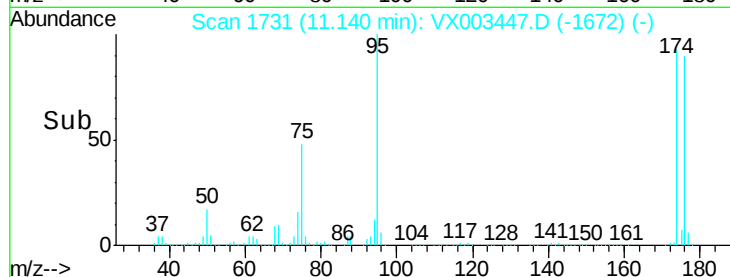
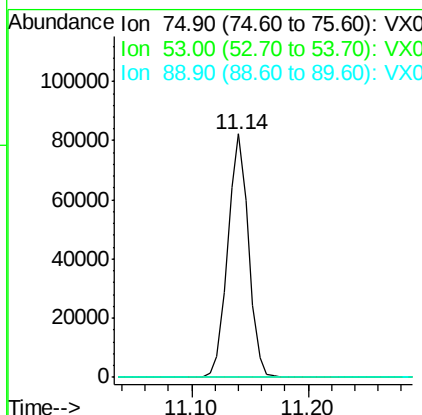
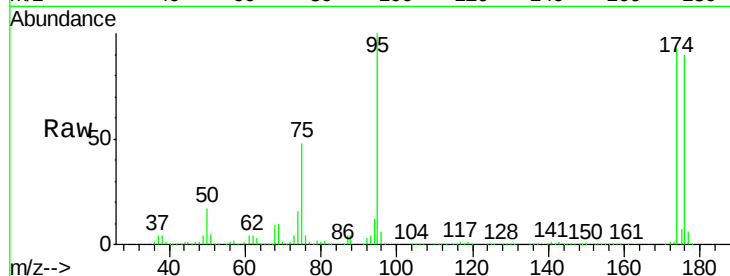




#81
trans-1,4-Dichloro-2-butene
Concen: 85.63 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX003447.D
Acq: 18 Jul 2018 15:08

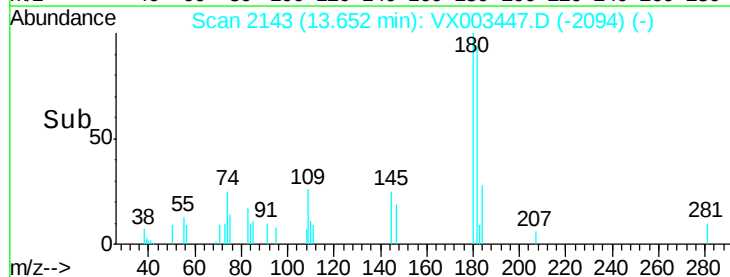
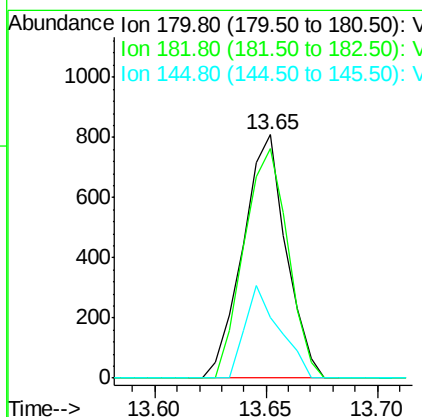
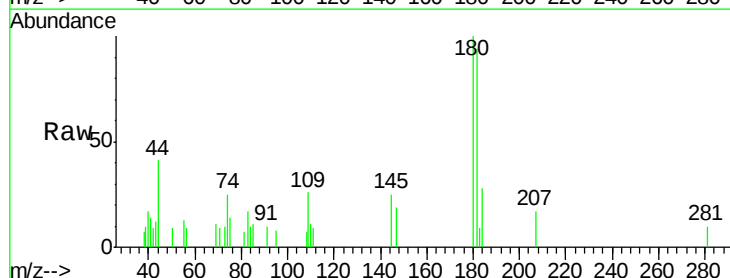
Instrument :
MSVOA_X
ClientSampled :

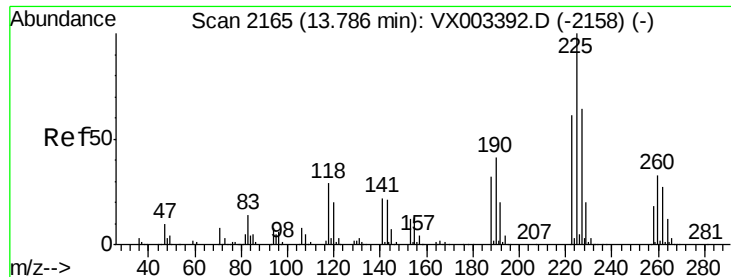
Tot Ion: 75 Resp: 101317
Ion Ratio Lower Upper
75 100
53 0.2 86.8 130.2#
89 0.0 38.2 57.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.23 ug/l
RT: 13.65 min Scan# 2143
Delta R.T. -0.00 min
Lab File: VX003447.D
Acq: 18 Jul 2018 15:08

Tgt Ion:180 Resp: 1100
Ion Ratio Lower Upper
180 100
182 94.9 47.7 143.1
145 30.1 14.1 42.4





#94

Hexachlorobutadiene

Concen: 0.21 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003447.D

Acq: 18 Jul 2018 15:08

Instrument :

MSVOA_X

ClientSampleId :

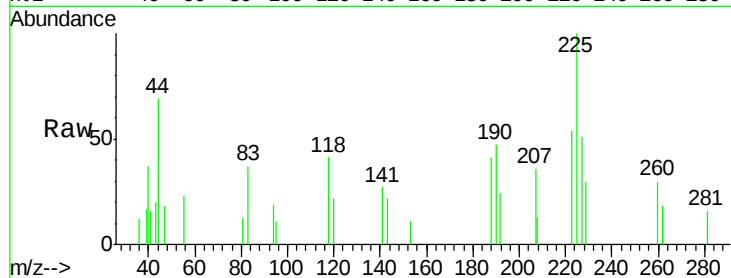
Tot Ion:225 Resp: 483

Ion Ratio Lower Upper

225 100

223 62.7 31.6 95.0

227 60.9 32.4 97.2



Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

