

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071018\
 Data File : VX003310.D
 Acq On : 11 Jul 2018 03:44
 Operator : JC/MD
 Sample : J3914-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SEMH

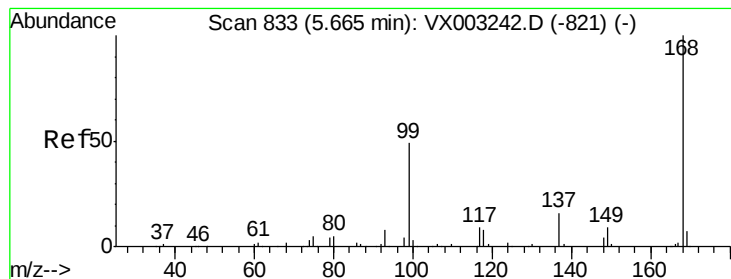
Quant Time: Jul 11 04:59:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	266040	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	362624	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	350335	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	197429	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	159197	38.02	ug/l	0.00
Spiked Amount			Recovery	=	76.04%	
35) Dibromofluoromethane	5.51	113	139174	35.72	ug/l	0.00
Spiked Amount			Recovery	=	71.44%	
50) Toluene-d8	8.72	98	518292	37.45	ug/l	0.00
Spiked Amount			Recovery	=	74.90%	
62) 4-Bromofluorobenzene	11.14	95	180417	35.28	ug/l	0.00
Spiked Amount			Recovery	=	70.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	1429	Below Cal	#	61
10) Methyl Iodide	2.51	142	1639	6.05	ug/l	98
11) Tert butyl alcohol	3.07	59	278	0.37	ug/l	# 1
16) Acetone	2.45	43	13859	9.32	ug/l	97
18) Methyl Acetate	2.78	43	16921	4.04	ug/l	92
20) Methylene Chloride	2.86	84	44069	13.96	ug/l	91
25) 2-Butanone	4.72	43	4642	1.76	ug/l	# 80
29) Tetrahydrofuran	5.18	42	2011	1.18	ug/l	# 86
30) Chloroform	5.22	83	4502	0.70	ug/l	100
36) 1,1-Dichloropropene	5.67	75	15517	3.02	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	22160	3.95	ug/l	# 17
40) Benzene	6.14	78	3186	0.21	ug/l	92
44) Trichloroethene	7.21	130	5765	1.28	ug/l	88
47) Bromodichloromethane	7.90	83	1311	0.26	ug/l	# 83
51) 4-Methyl-2-Pentanone	8.66	43	1424	0.26	ug/l	94
52) Toluene	8.79	92	2154	0.22	ug/l	95
64) Tetrachloroethene	9.34	164	1666	0.31	ug/l	89
68) m/p-Xylenes	10.36	106	2041	0.27	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	89273	20.92	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	89273	68.38	ug/l	# 7
95) Naphthalene	13.84	128	19139	1.21	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003310.D

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ClientSampleId :

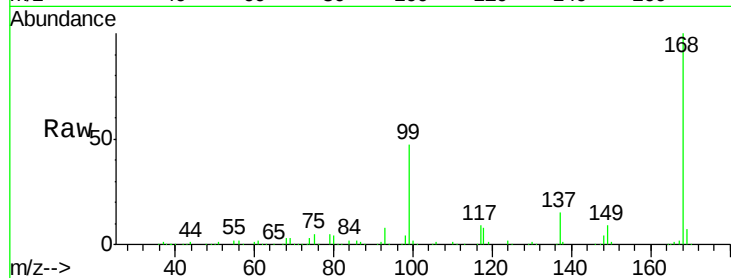
SEMH

Tot Ion:168 Resp: 266040

Ion Ratio Lower Upper

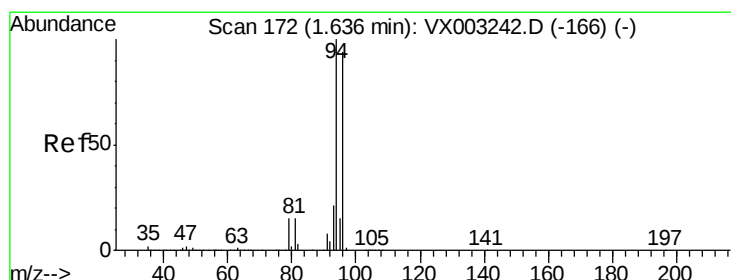
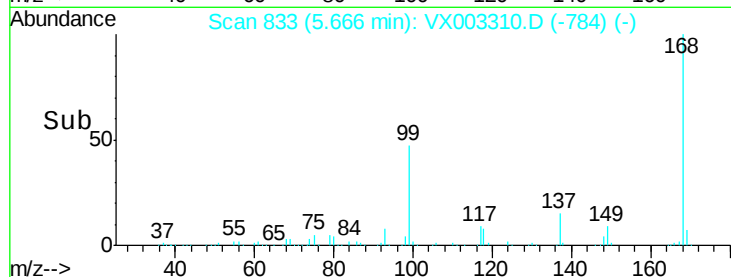
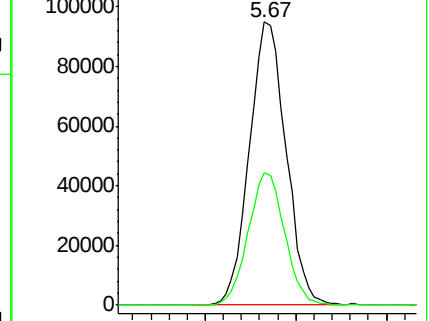
168 100

99 46.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003310.D

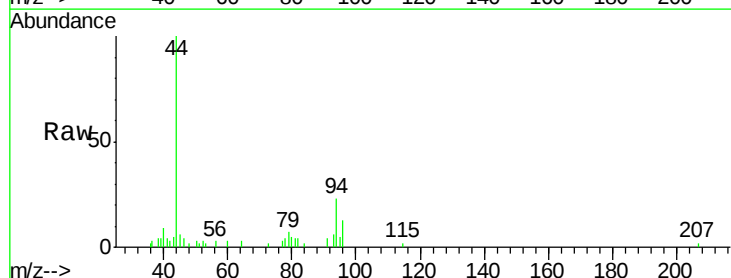
Acq: 11 Jul 2018 03:44

Tgt Ion: 94 Resp: 1429

Ion Ratio Lower Upper

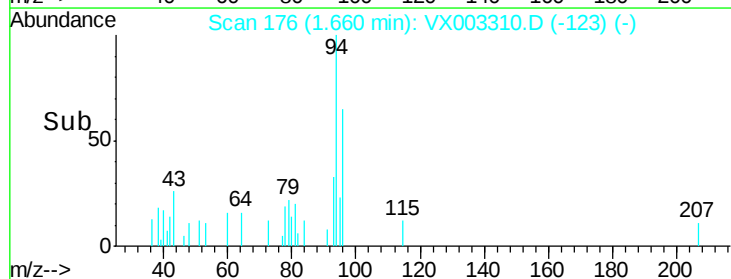
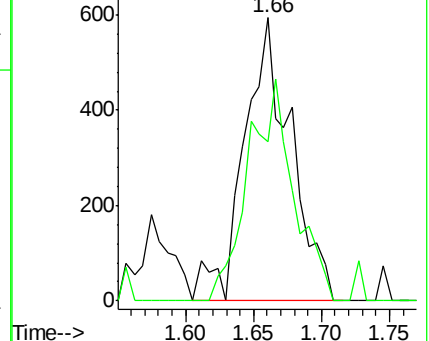
94 100

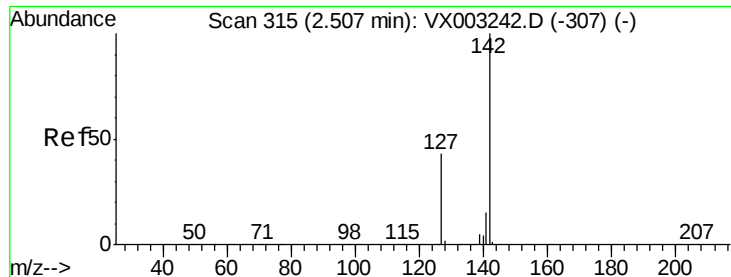
96 56.1 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

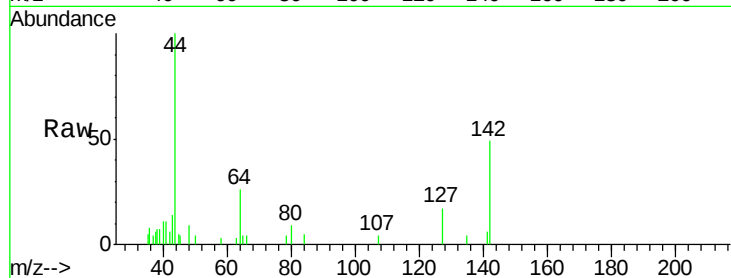




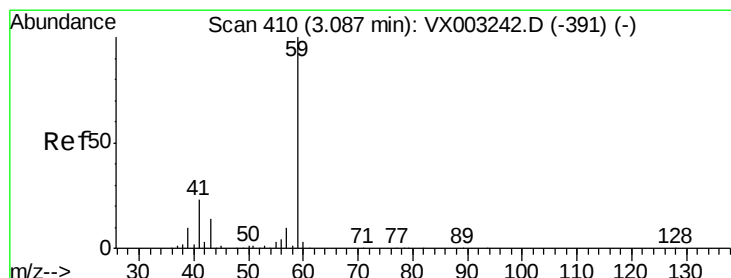
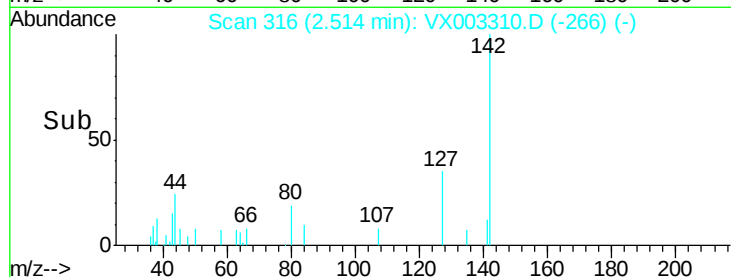
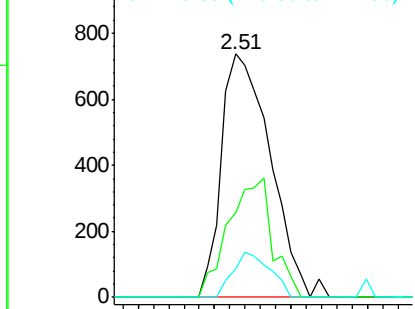
#10
Methyl Iodide
Concen: 6.05 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX003310.D
Acq: 11 Jul 2018 03:44

Instrument :
MSVOA_X
ClientSampleId :
SEMH

Tot Ion:142 Resp: 1639
Ion Ratio Lower Upper
142 100
127 43.7 36.6 55.0
141 14.1 11.3 16.9

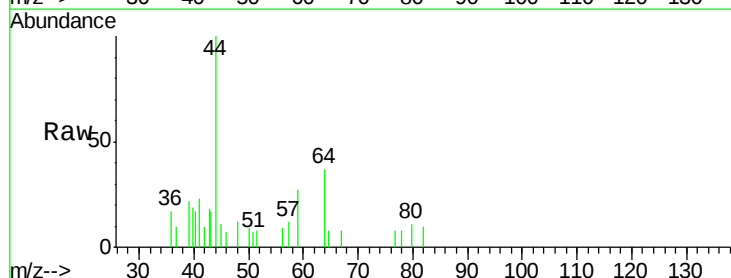


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

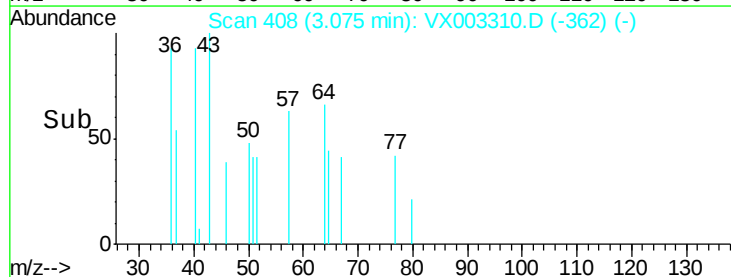
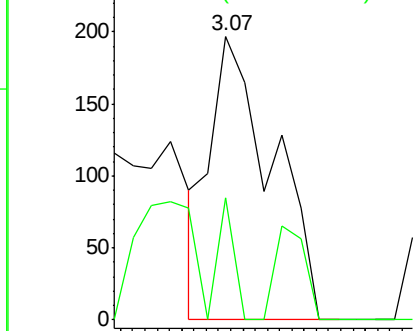


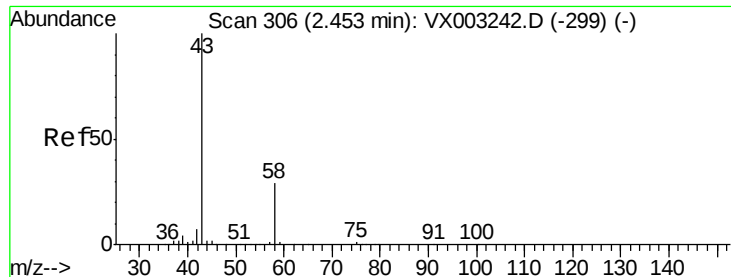
#11
Tert butyl alcohol
Concen: 0.37 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.02 min
Lab File: VX003310.D
Acq: 11 Jul 2018 03:44

Tgt Ion: 59 Resp: 278
Ion Ratio Lower Upper
59 100
57 59.4 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 9.32 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003310.D

Acq: 11 Jul 2018 03:44

Instrument :

MSVOA_X

ClientSampleId :

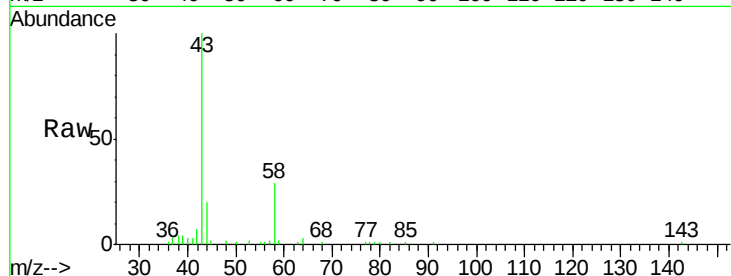
SEMH

Tot Ion: 43 Resp: 13859

Ion Ratio Lower Upper

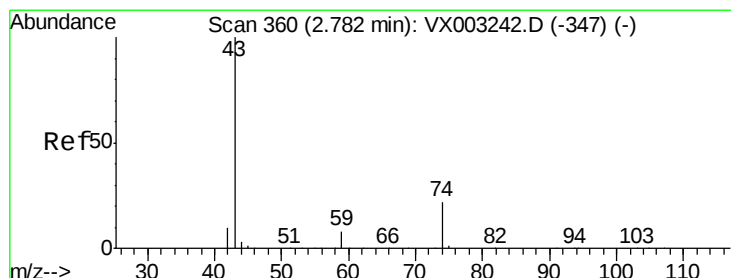
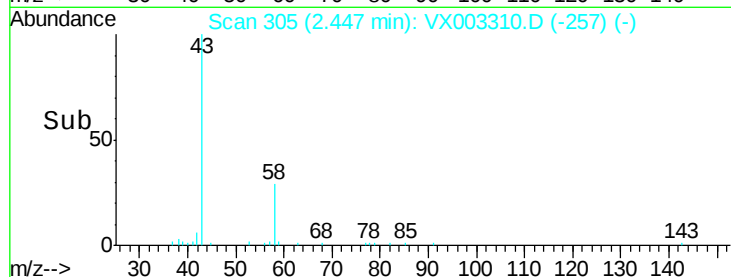
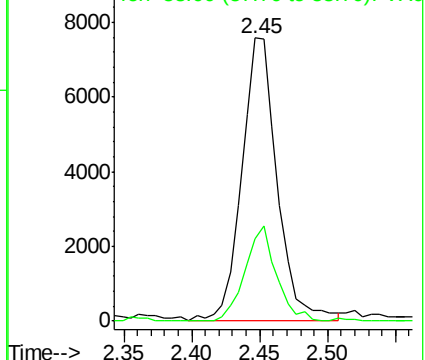
43 100

58 29.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 4.04 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003310.D

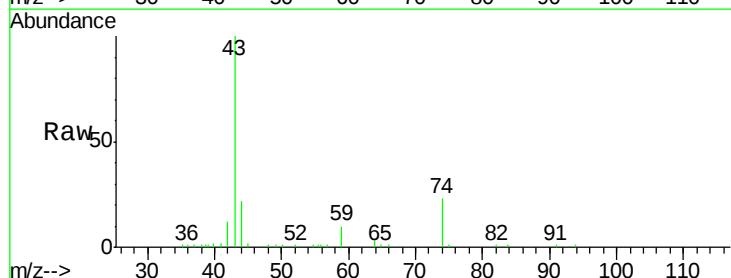
Acq: 11 Jul 2018 03:44

Tgt Ion: 43 Resp: 16921

Ion Ratio Lower Upper

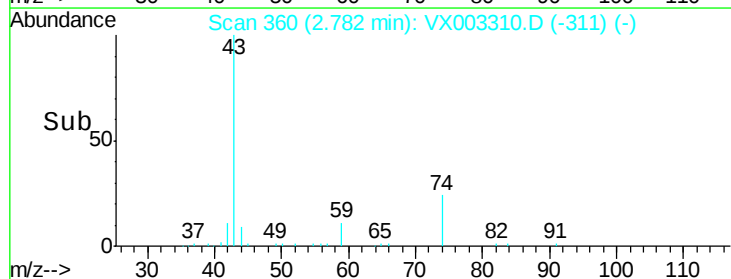
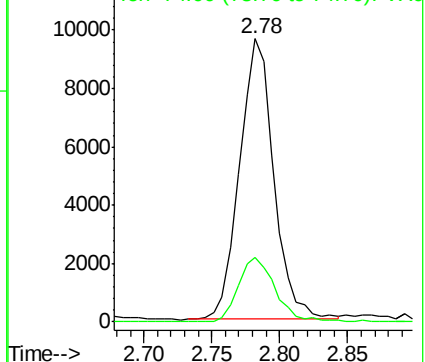
43 100

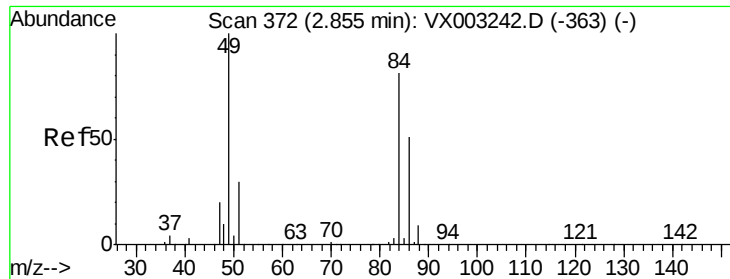
74 24.5 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

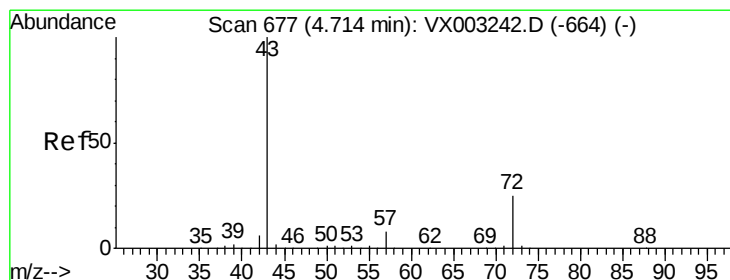
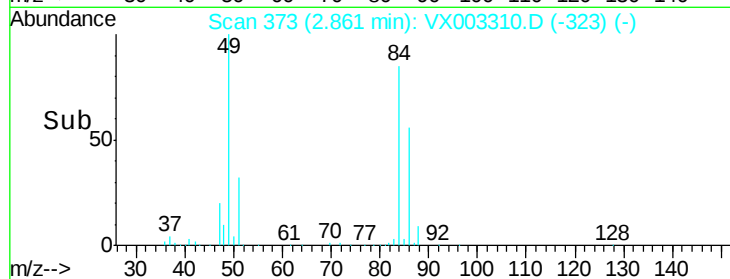
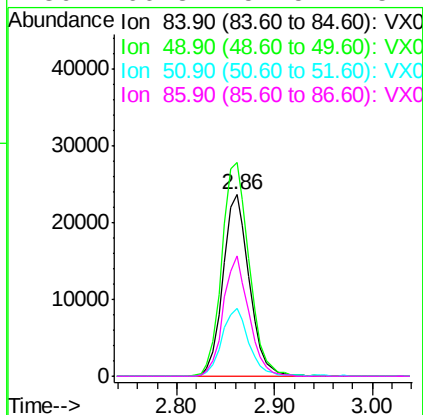
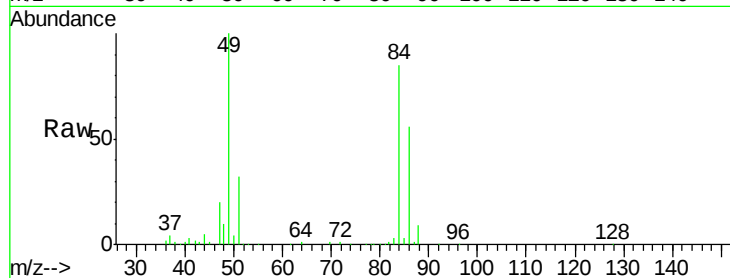




#20
Methvlene Chloride
Concen: 13.96 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003310.D
Acq: 11 Jul 2018 03:44

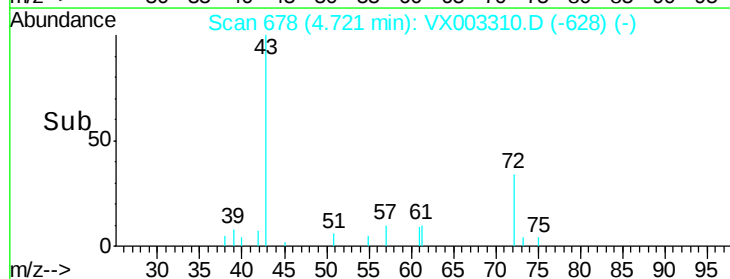
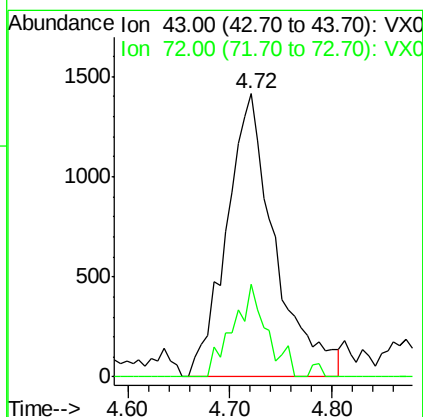
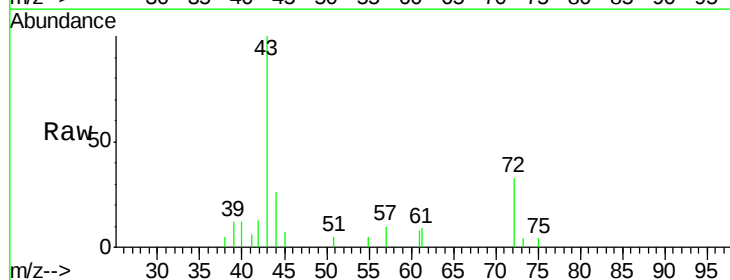
Instrument :
MSVOA_X
ClientSampled :
SEMH

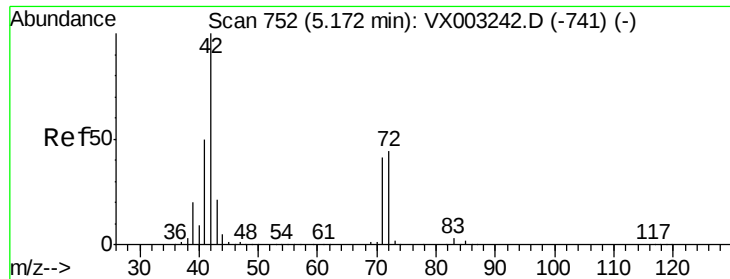
Tot Ion: 84 Resp: 44069
Ion Ratio Lower Upper
84 100
49 117.4 107.8 161.6
51 37.5 32.8 49.2
86 66.3 52.5 78.7



#25
2-Butanone
Concen: 1.76 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX003310.D
Acq: 11 Jul 2018 03:44

Tgt Ion: 43 Resp: 4642
Ion Ratio Lower Upper
43 100
72 32.8 18.5 27.7#

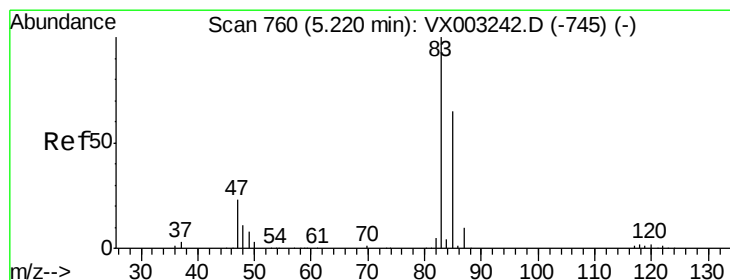
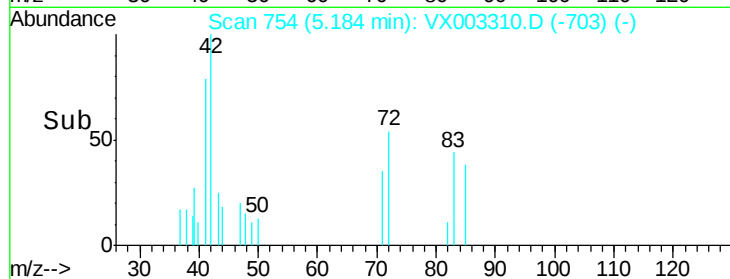
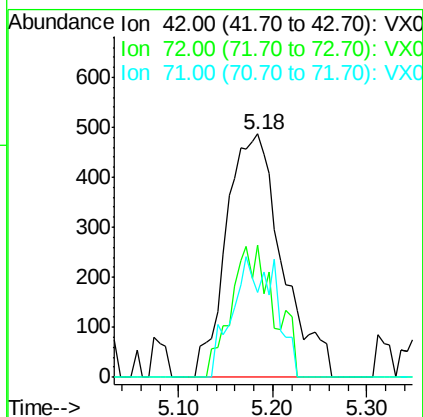
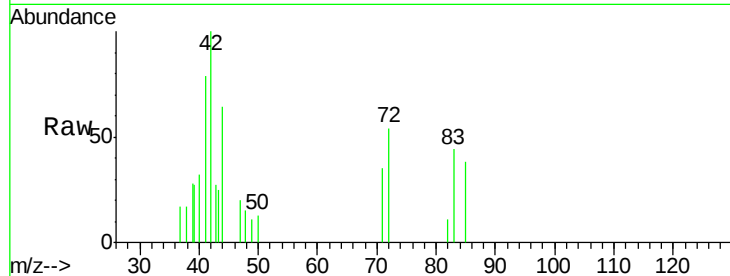




#29
Tetrahydrofuran
Concen: 1.18 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.01 min
Lab File: VX003310.D
Acq: 11 Jul 2018 03:44

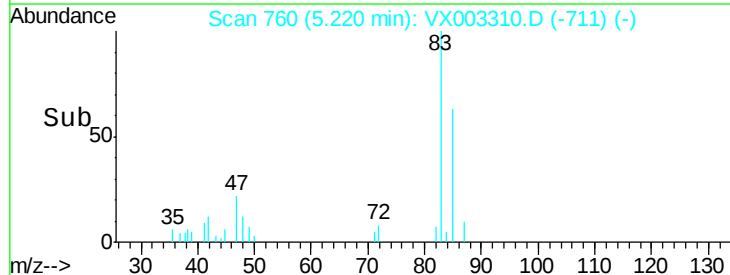
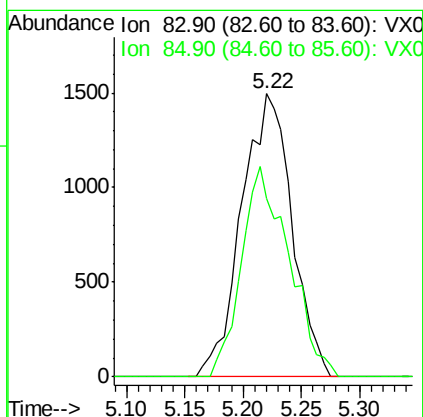
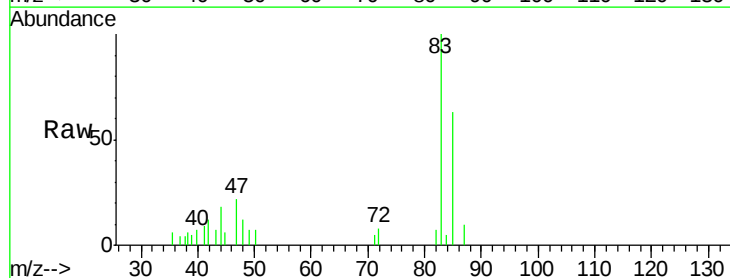
Instrument :
MSVOA_X
ClientSampleId :
SEMH

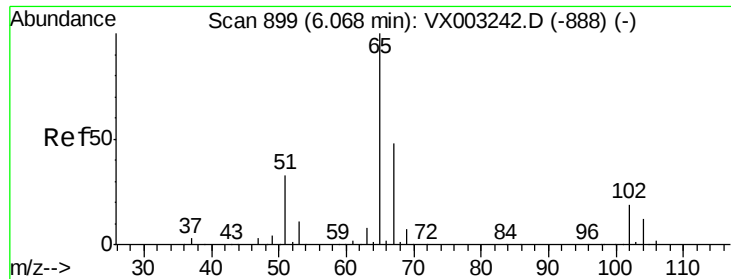
Tot Ion: 42 Resp: 2011
Ion Ratio Lower Upper
42 100
72 41.6 32.0 48.0
71 22.4 30.1 45.1#



#30
Chloroform
Concen: 0.70 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.00 min
Lab File: VX003310.D
Acq: 11 Jul 2018 03:44

Tgt Ion: 83 Resp: 4502
Ion Ratio Lower Upper
83 100
85 63.2 50.4 75.6

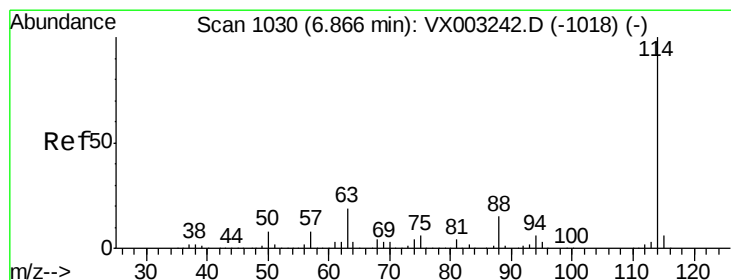
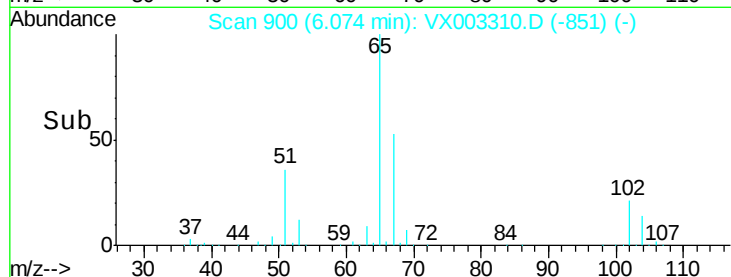
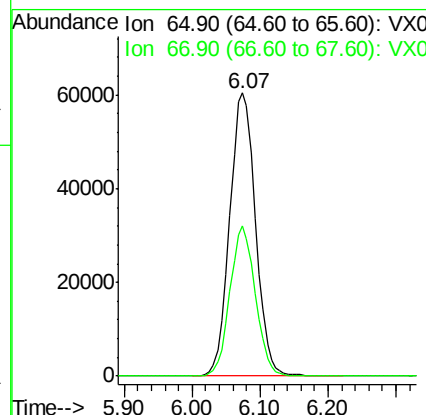
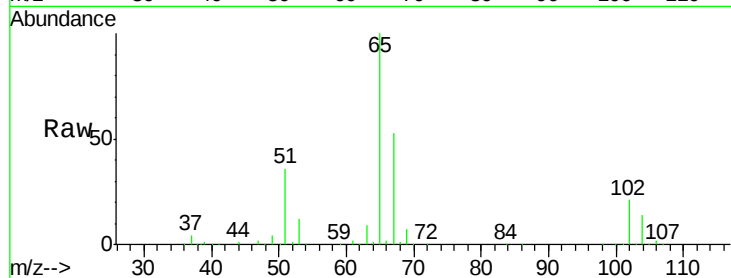




#33
 1,2-Dichloroethane-d4
 Concen: 38.02 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX003310.D
 Acq: 11 Jul 2018 03:44

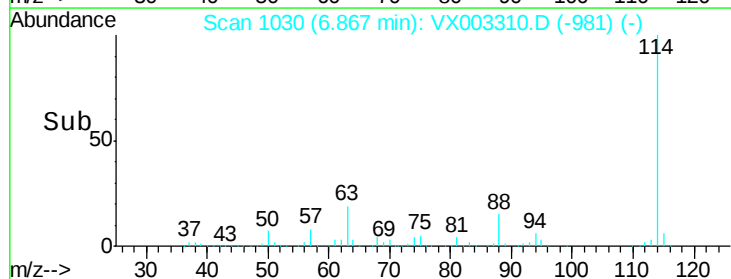
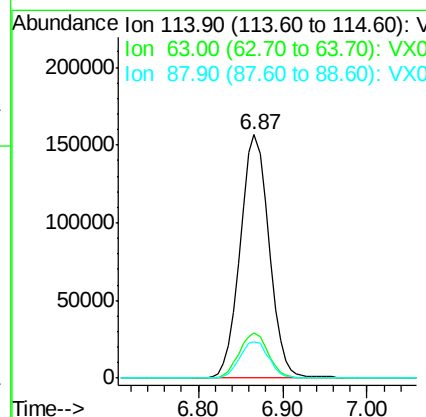
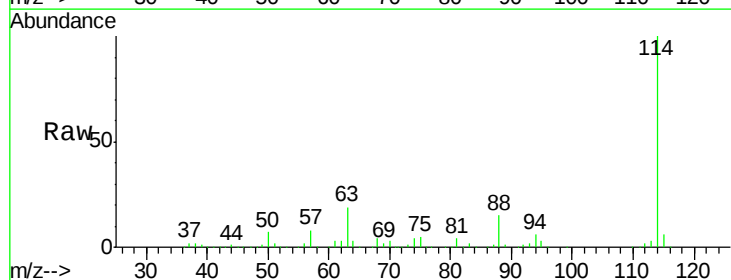
Instrument :
 MSVOA_X
 ClientSampleId :
 SEMH

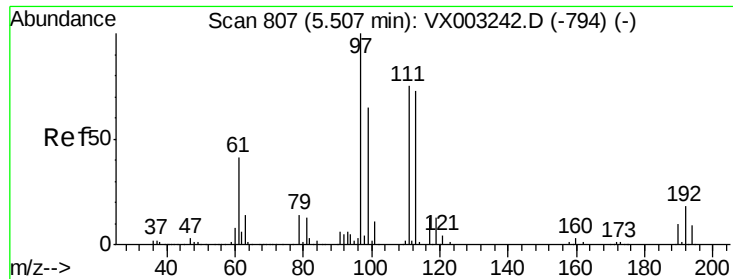
Tot Ion: 65 Resp: 159197
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003310.D
 Acq: 11 Jul 2018 03:44

Tgt Ion: 114 Resp: 362624
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 41.4
 88 14.8 0.0 30.0





#35

Dibromofluoromethane

Concen: 35.72 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003310.D

Acq: 11 Jul 2018 03:44

Instrument :

MSVOA_X

ClientSampleId :

SEMH

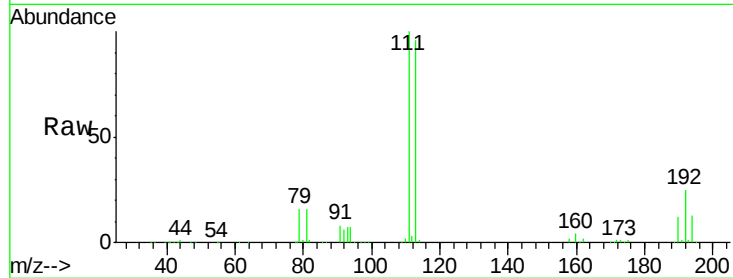
Tot Ion:113 Resp: 139174

Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.0

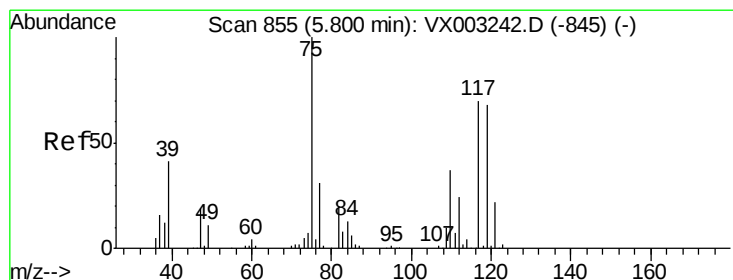
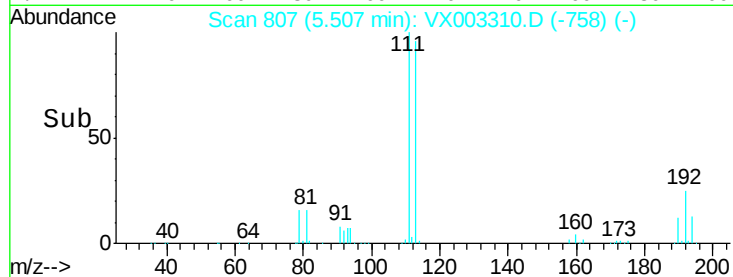
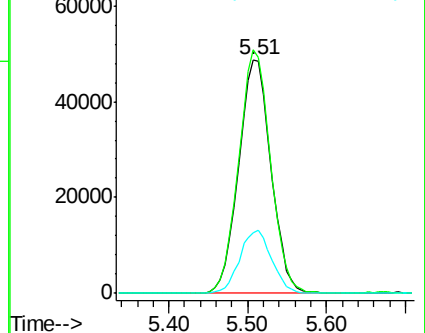
192 26.6 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.02 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003310.D

Acq: 11 Jul 2018 03:44

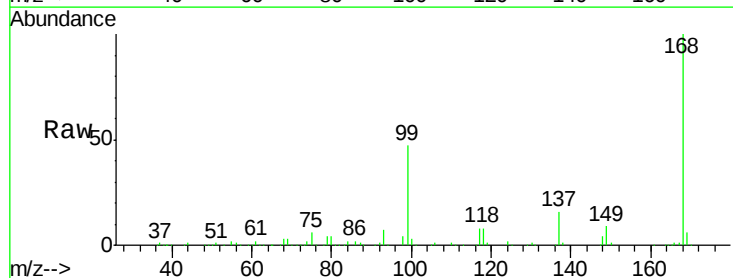
Tgt Ion: 75 Resp: 15517

Ion Ratio Lower Upper

75 100

110 11.2 18.1 54.4#

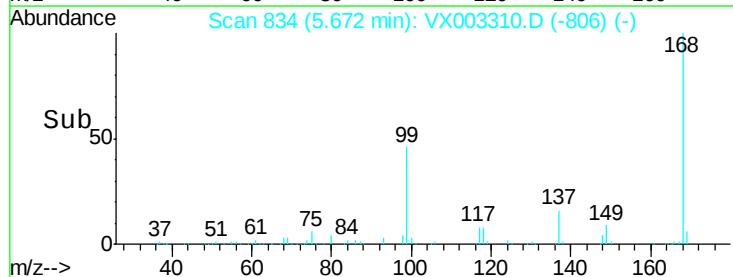
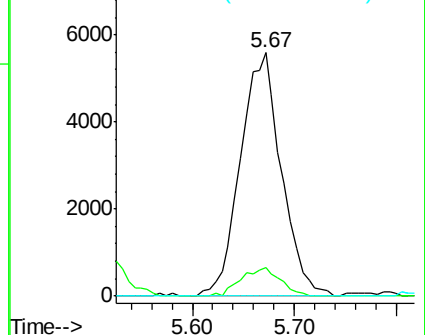
77 0.0 24.3 36.5#

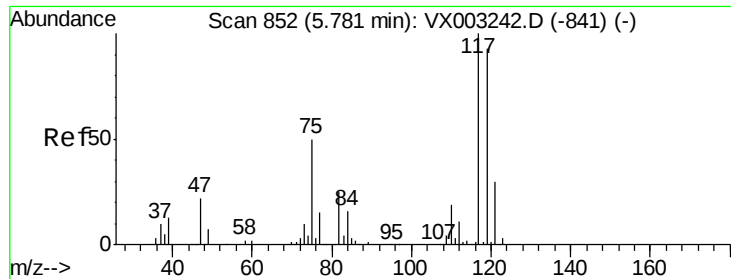


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 3.95 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003310.D

Acq: 11 Jul 2018 03:44

Instrument :

MSVOA_X

ClientSampled :

SEMH

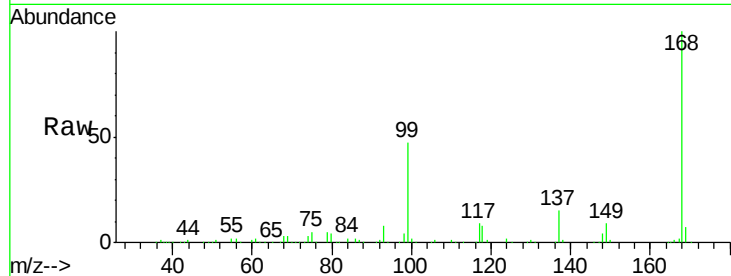
Tot Ion:117 Resp: 22160

Ion Ratio Lower Upper

117 100

119 7.1 77.4 116.0#

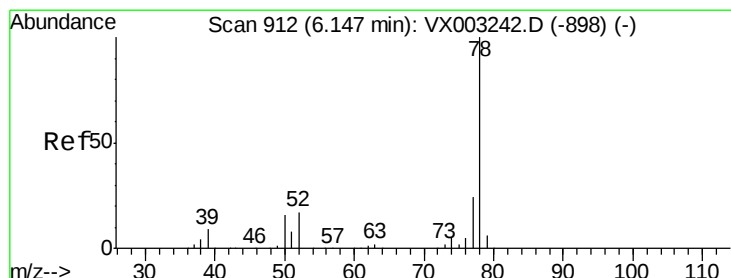
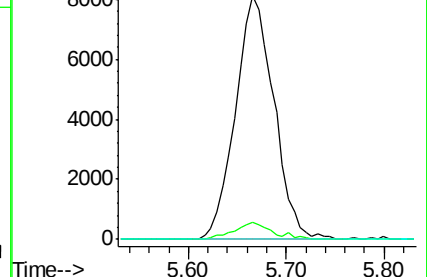
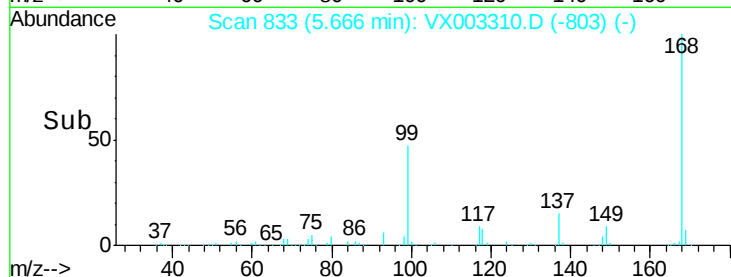
121 0.0 24.4 36.6#



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: 0.21 ug/l

RT: 6.14 min Scan# 911

Delta R.T. -0.01 min

Lab File: VX003310.D

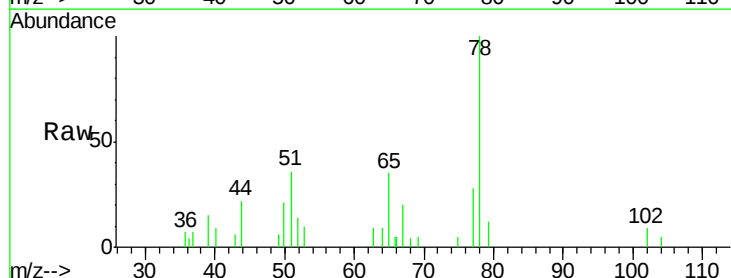
Acq: 11 Jul 2018 03:44

Tgt Ion: 78 Resp: 3186

Ion Ratio Lower Upper

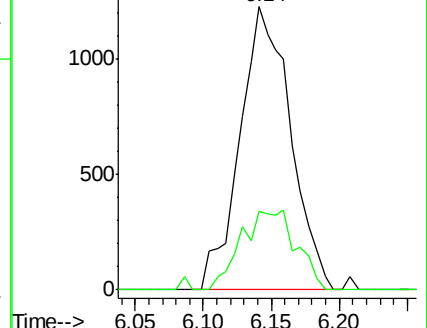
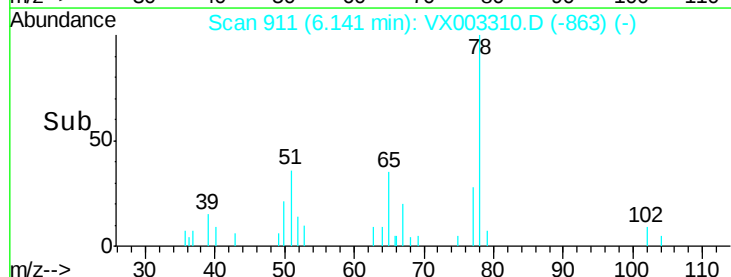
78 100

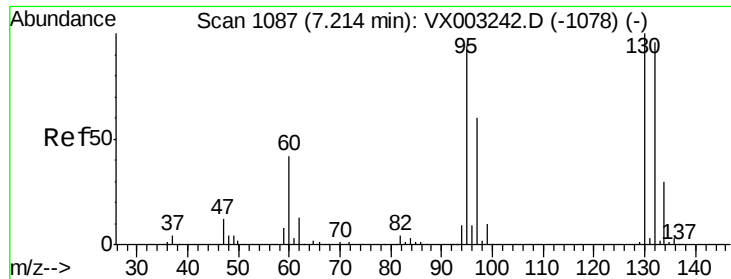
77 27.7 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 1.28 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003310.D

Acq: 11 Jul 2018 03:44

Instrument :

MSVOA_X

ClientSampleId :

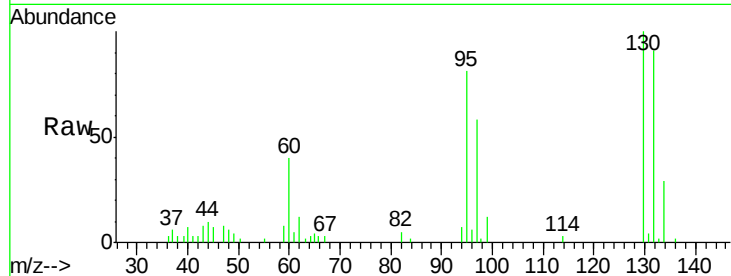
SEMH

Tot Ion:130 Resp: 5765

Ion Ratio Lower Upper

130 100

95 81.4 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

2500

2000

1500

1000

500

0

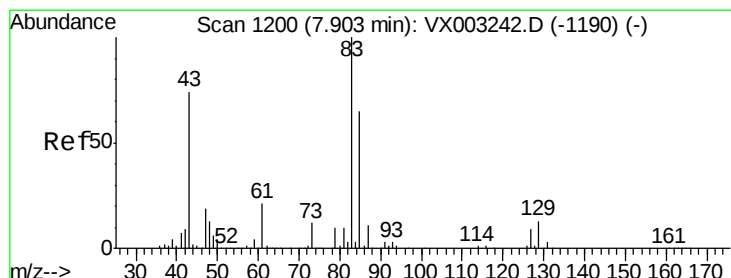
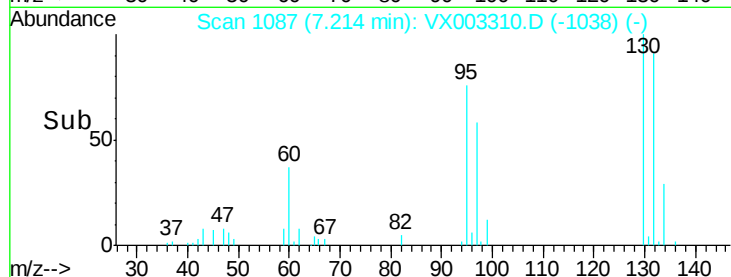
7.15

7.20

7.25

7.30

Time-->



#47

Bromodichloromethane

Concen: 0.26 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX003310.D

Acq: 11 Jul 2018 03:44

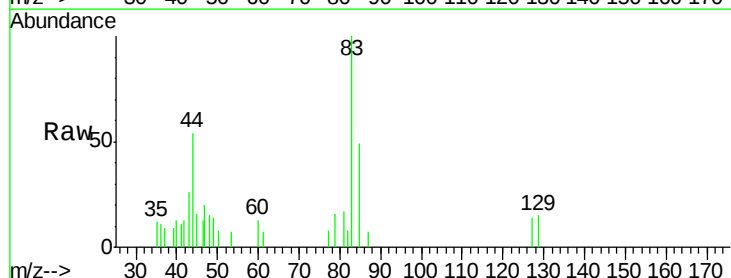
Tgt Ion: 83 Resp: 1311

Ion Ratio Lower Upper

83 100

85 49.5 50.3 75.5#

127 14.0 7.0 10.4#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

7.90

1000

800

600

400

200

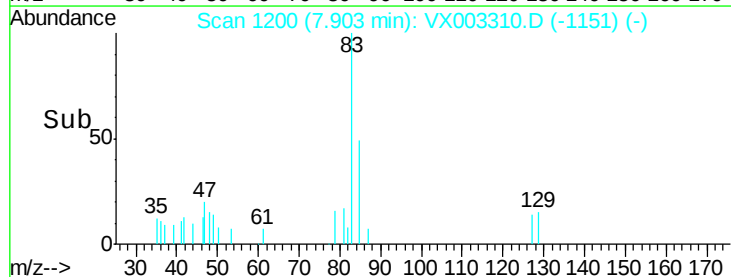
0

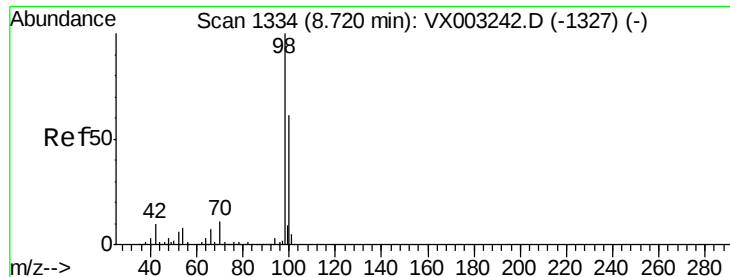
7.85

7.90

7.95

Time-->





#50

Toluene-d8

Concen: 37.45 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003310.D

Acq: 11 Jul 2018 03:44

Instrument :

MSVOA_X

ClientSampleId :

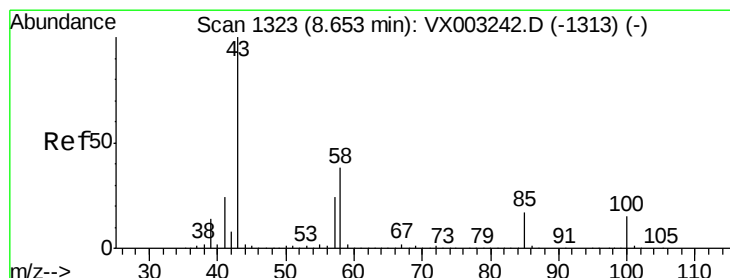
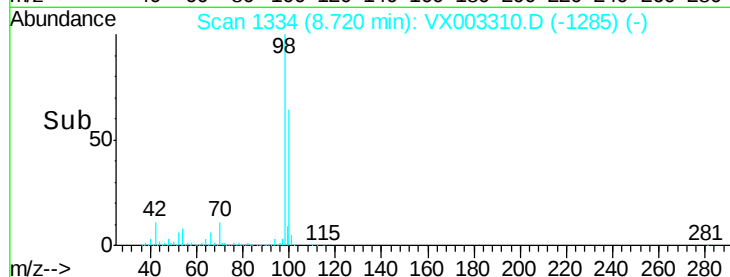
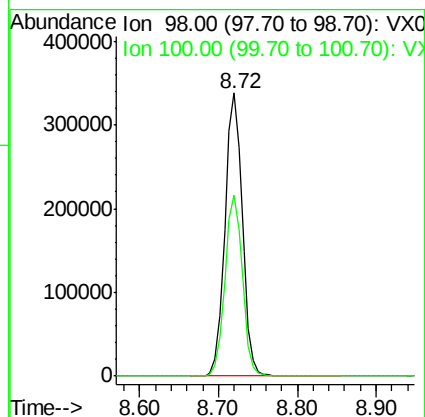
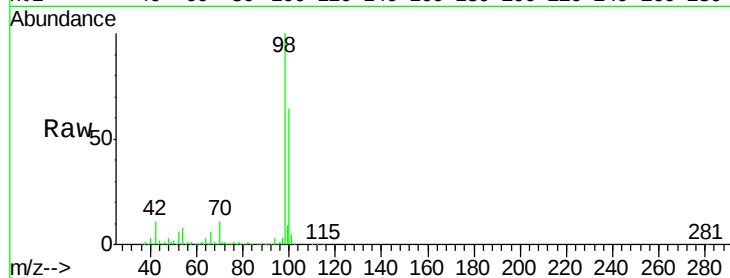
SEMH

Tot Ion: 98 Resp: 518292

Ion Ratio Lower Upper

98 100

100 63.8 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 0.26 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VX003310.D

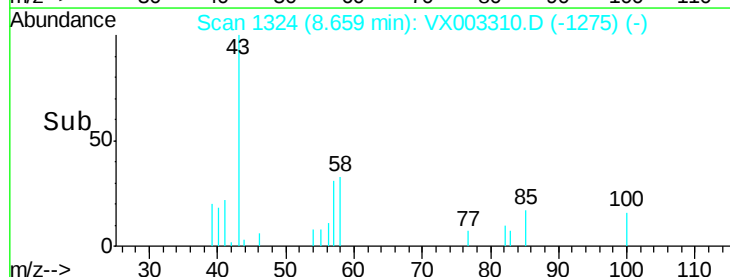
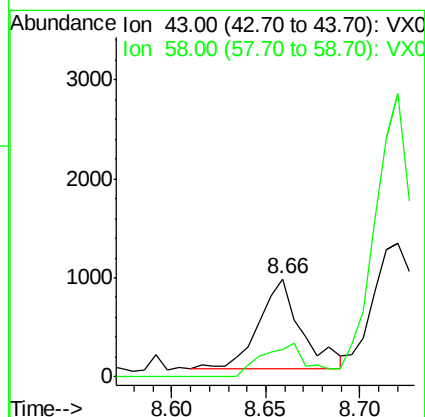
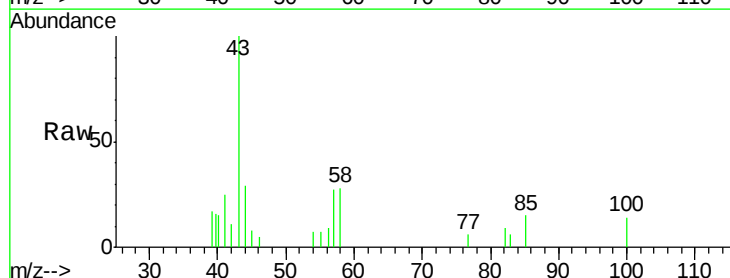
Acq: 11 Jul 2018 03:44

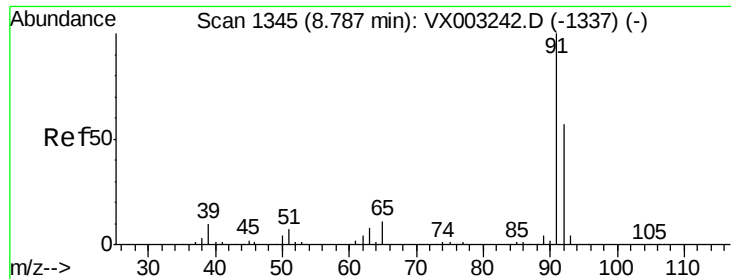
Tgt Ion: 43 Resp: 1424

Ion Ratio Lower Upper

43 100

58 39.3 28.6 42.8





#52

Toluene

Concen: 0.22 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. 0.01 min

Lab File: VX003310.D

Acq: 11 Jul 2018 03:44

Instrument :

MSVOA_X

ClientSampleId :

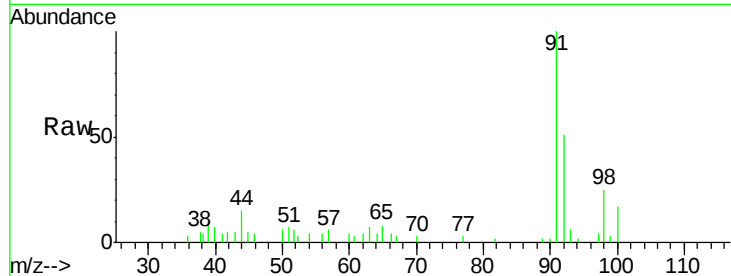
SEMH

Tot Ion: 92 Resp: 2154

Ion Ratio Lower Upper

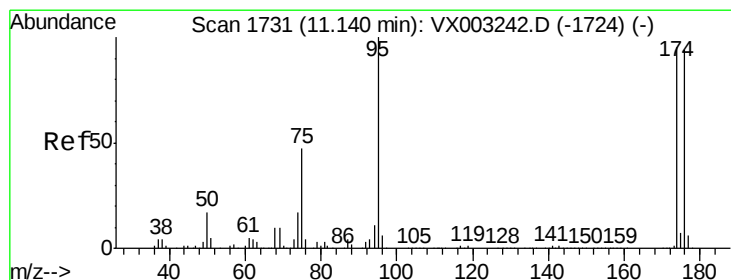
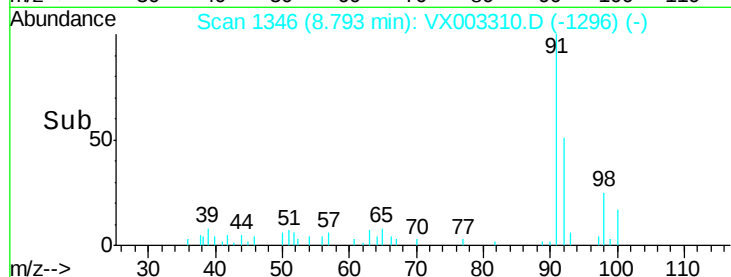
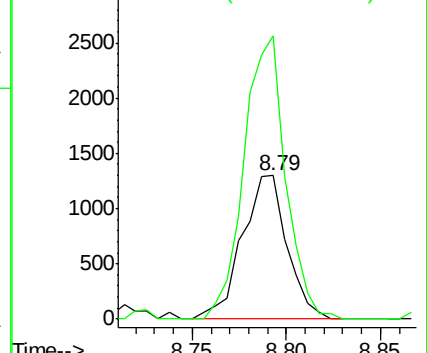
92 100

91 182.1 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 35.28 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003310.D

Acq: 11 Jul 2018 03:44

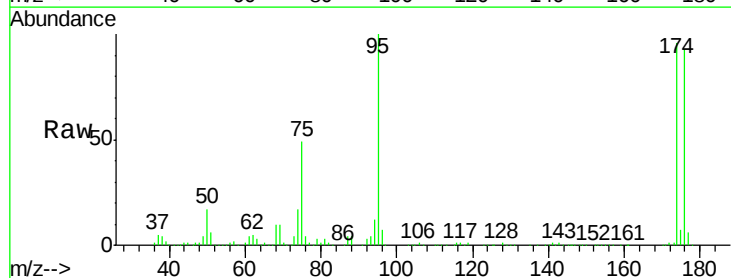
Tgt Ion: 95 Resp: 180417

Ion Ratio Lower Upper

95 100

174 99.6 0.0 187.4

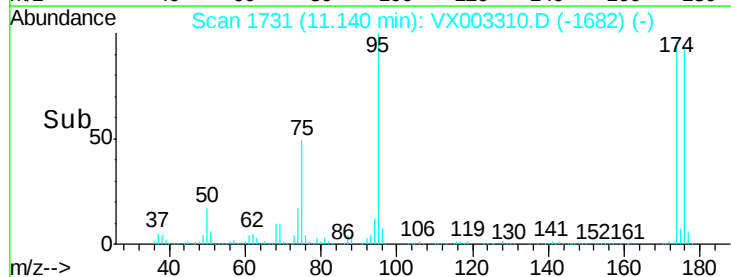
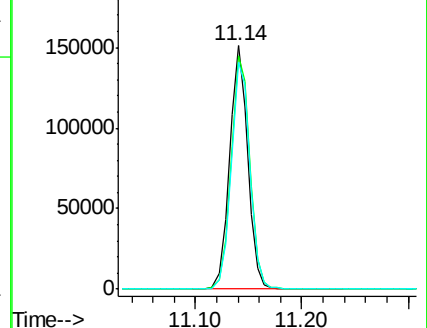
176 95.9 0.0 181.0

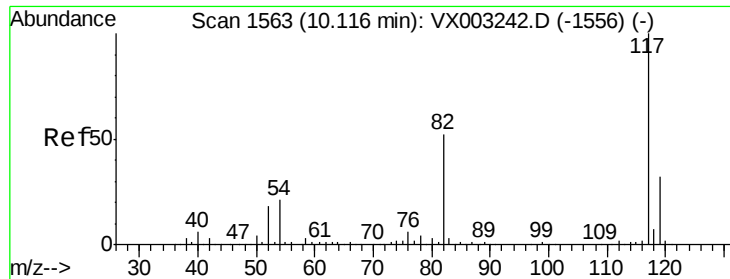


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

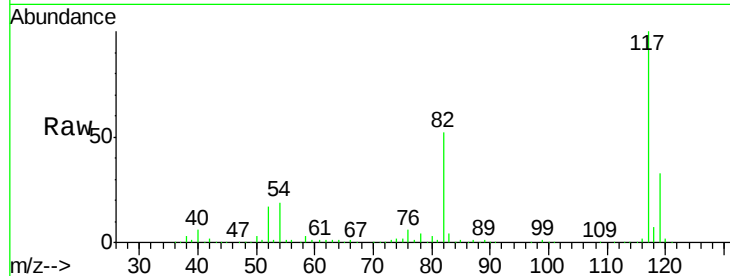




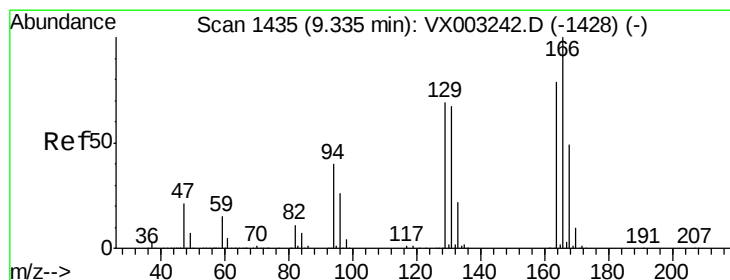
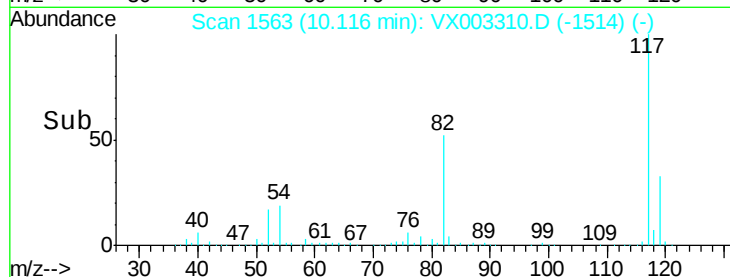
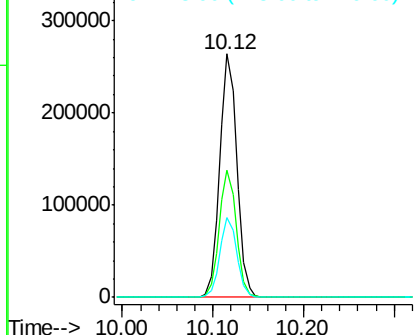
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003310.D
Acq: 11 Jul 2018 03:44

Instrument :
MSVOA_X
ClientSampleId :
SEMH

Tot Ion:117 Resp: 350335
Ion Ratio Lower Upper
117 100
82 52.0 45.0 67.4
119 32.5 25.8 38.6

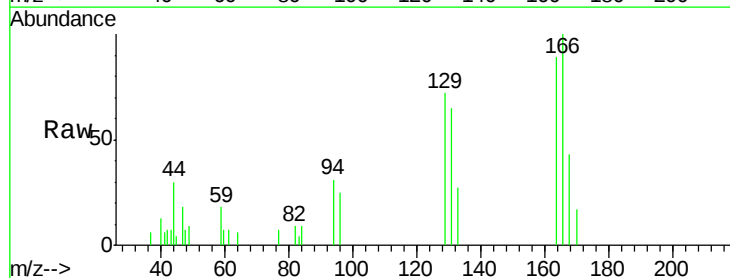


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

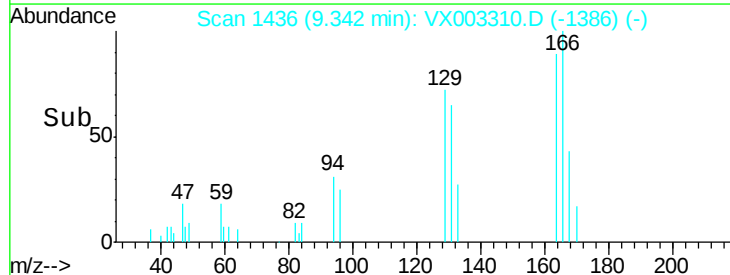
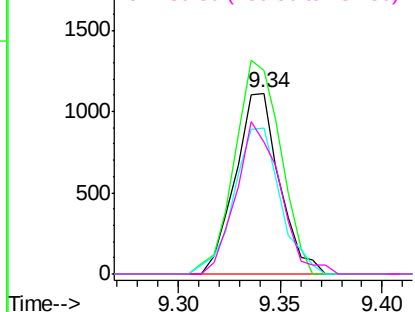


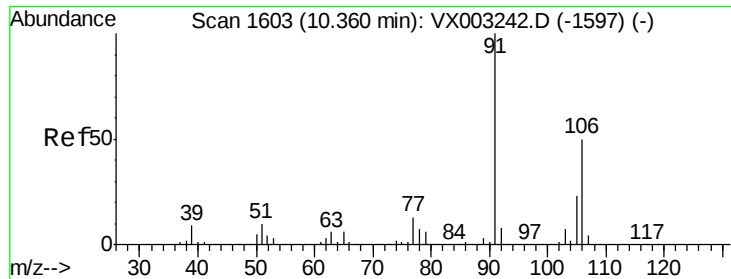
#64
Tetrachloroethene
Concen: 0.31 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.01 min
Lab File: VX003310.D
Acq: 11 Jul 2018 03:44

Tgt Ion:164 Resp: 1666
Ion Ratio Lower Upper
164 100
166 112.7 102.9 154.3
129 80.8 68.6 102.8
131 73.0 66.8 100.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#68

m/p-Xvlenes

Concen: 0.27 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VX003310.D

Acq: 11 Jul 2018 03:44

Instrument :

MSVOA_X

ClientSampleId :

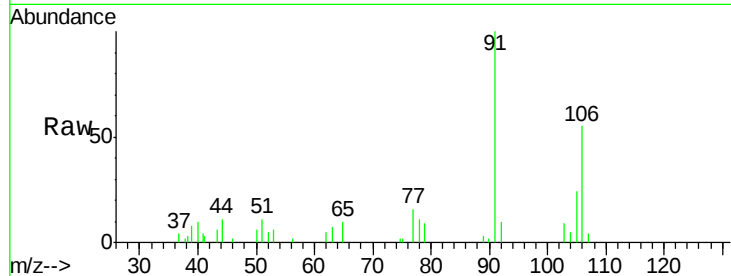
SEMH

Tot Ion:106 Resp: 2041

Ion Ratio Lower Upper

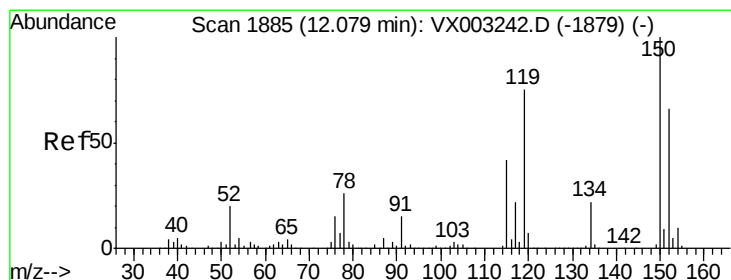
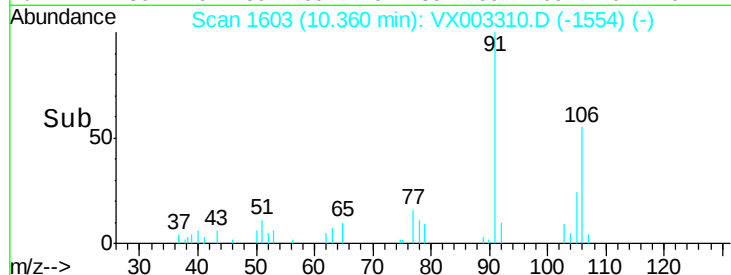
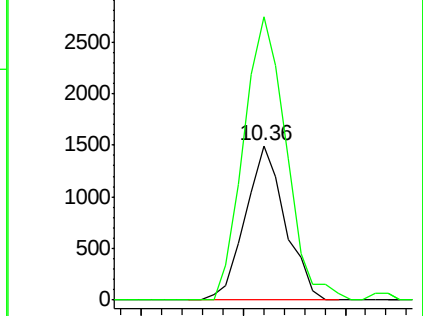
106 100

91 194.3 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VX003310.D

Acq: 11 Jul 2018 03:44

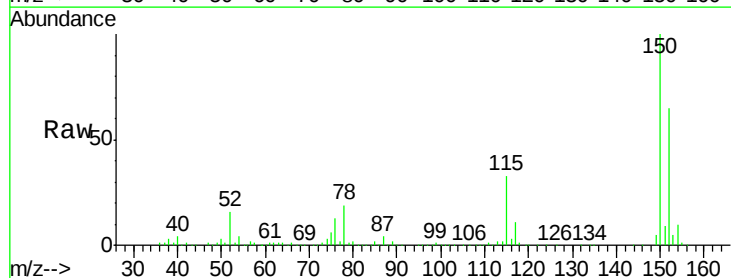
Tgt Ion:152 Resp: 197429

Ion Ratio Lower Upper

152 100

115 53.7 40.1 120.2

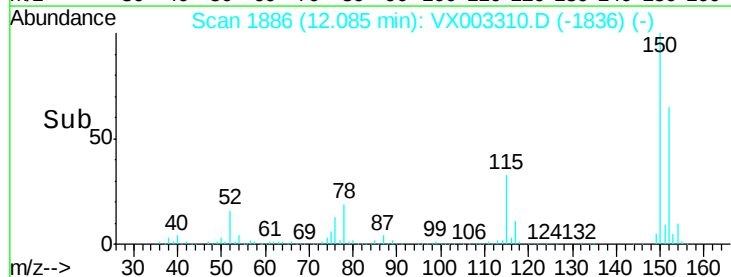
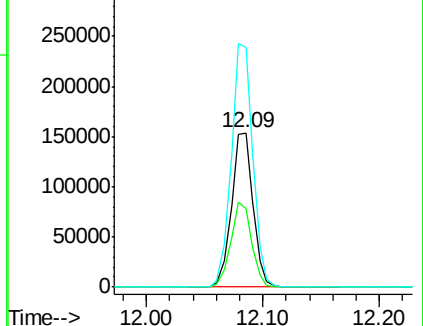
150 157.9 0.0 347.2

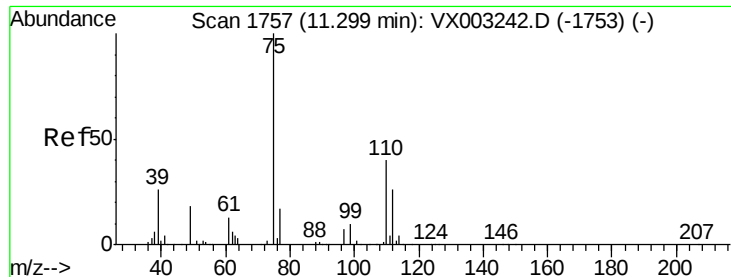


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

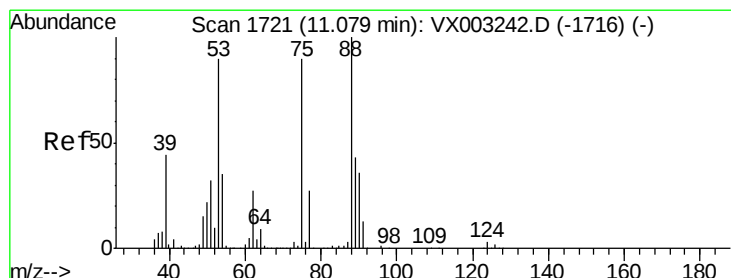
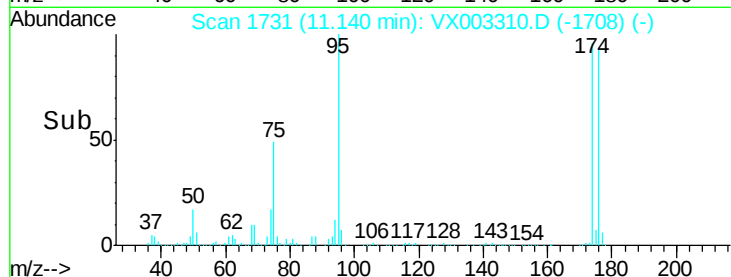
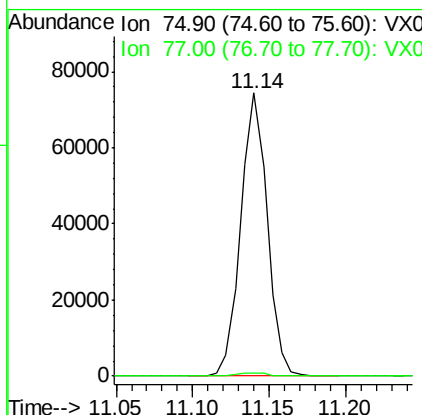
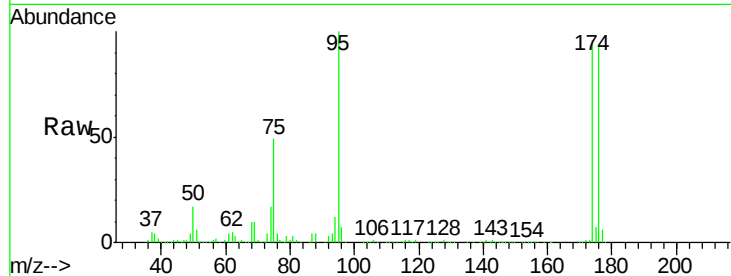




#76
 1,2,3-Trichloropropane
 Concen: 20.92 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003310.D
 Acq: 11 Jul 2018 03:44

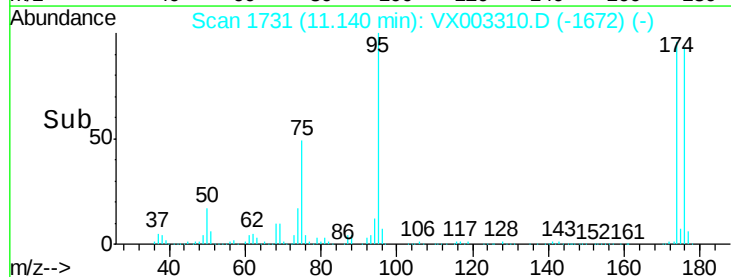
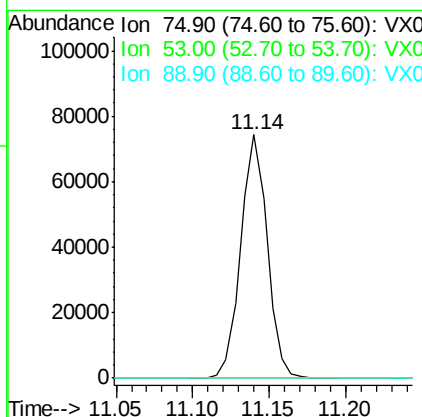
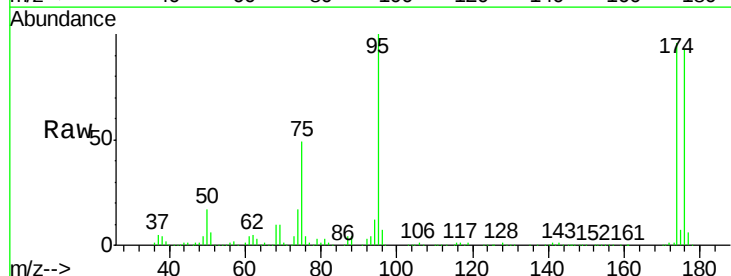
Instrument :
 MSVOA_X
 ClientSampleId :
 SEMH

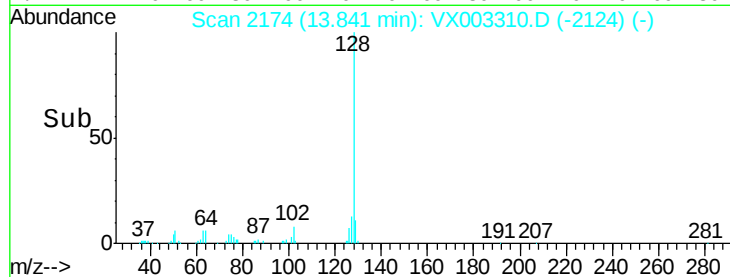
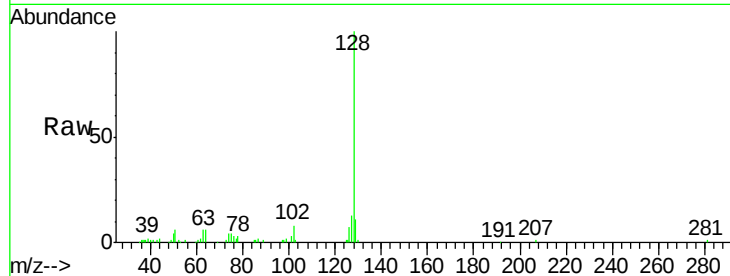
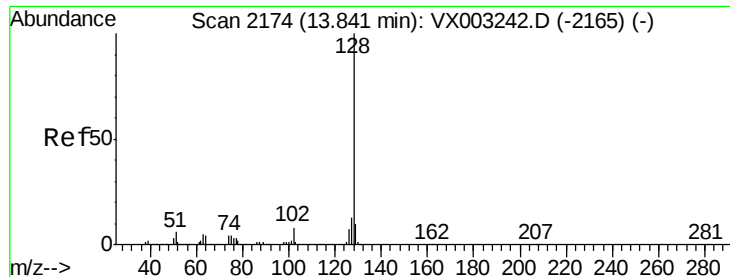
Tot Ion: 75 Resp: 89273
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.38 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003310.D
 Acq: 11 Jul 2018 03:44

Tgt Ion: 75 Resp: 89273
 Ion Ratio Lower Upper
 75 100
 53 0.3 86.8 130.2#
 89 0.0 38.2 57.2#





#95

Naphthalene

Concen: 1.21 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.01 min

Lab File: VX003310.D

Acq: 11 Jul 2018 03:44

Instrument :

MSVOA_X

ClientSampleId :

SEMH

Tot Ion:128 Resp: 19139

Ion Ratio Lower Upper

128 100

127 13.9 10.4 15.6

129 11.7 8.6 13.0

