

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070318\
 Data File : VX003160.D
 Acq On : 03 Jul 2018 20:20
 Operator : JC/MD
 Sample : J3814-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 8782-AA

Quant Time: Jul 04 03:19:22 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	262814	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	361003	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	338905	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	193197	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	169764	46.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.46%	
35) Dibromofluoromethane	5.51	113	141281	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	
50) Toluene-d8	8.72	98	513026	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	
62) 4-Bromofluorobenzene	11.14	95	179293	44.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.06%	

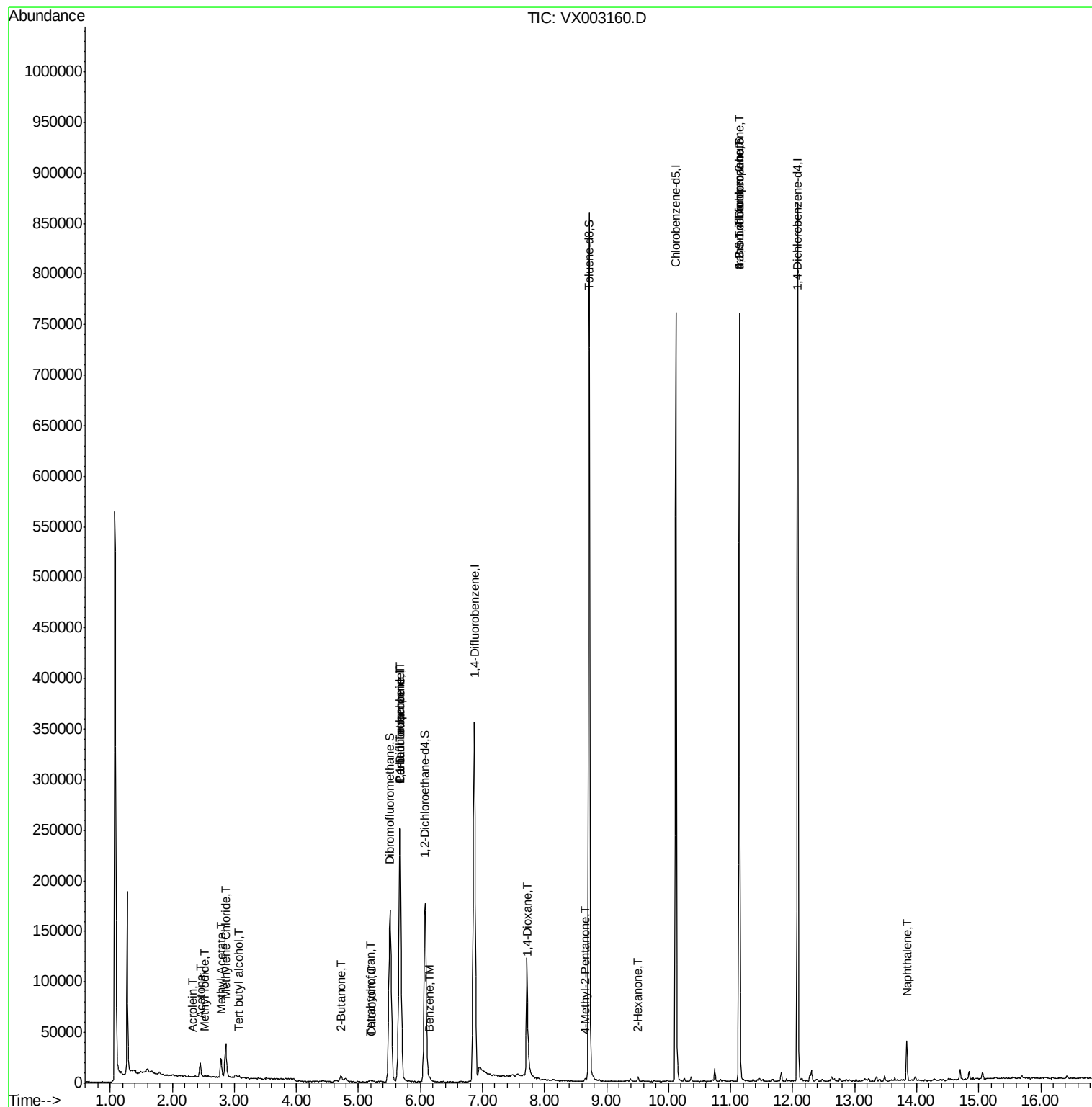
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	68	Below Cal	#	43
3) Chloromethane	1.32	50	731	Below Cal	#	85
5) Bromomethane	1.66	94	2109	Below Cal		98
6) Chloroethane	1.75	64	311	Below Cal	#	43
10) Methyl Iodide	2.52	142	1625	6.71	ug/l	# 90
11) Tert butyl alcohol	3.08	59	1712	2.37	ug/l	# 91
13) Acrolein	2.32	56	301	4.97	ug/l	# 14
16) Acetone	2.45	43	14712	9.78	ug/l	100
18) Methyl Acetate	2.78	43	23510	5.59	ug/l	95
20) Methylene Chloride	2.86	84	15753	5.38	ug/l	93
25) 2-Butanone	4.71	43	9600	4.30	ug/l	93
29) Tetrahydrofuran	5.18	42	816	0.57	ug/l	# 87
30) Chloroform	5.22	83	1097	0.20	ug/l	98
36) 1,1-Dichloropropene	5.67	75	16865	4.26	ug/l	# 45
38) Carbon Tetrachloride	5.67	117	23430	5.39	ug/l	# 16
40) Benzene	6.15	78	3926	0.34	ug/l	97
49) 1,4-Dioxane	7.73	88	20	0.28	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.65	43	1309	0.29	ug/l	# 74
59) 2-Hexanone	9.51	43	2507	0.74	ug/l	88
76) 1,2,3-Trichloropropane	11.14	75	91470	26.14	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	91470	74.10	ug/l	# 7
95) Naphthalene	13.84	128	25464	1.93	ug/l	99

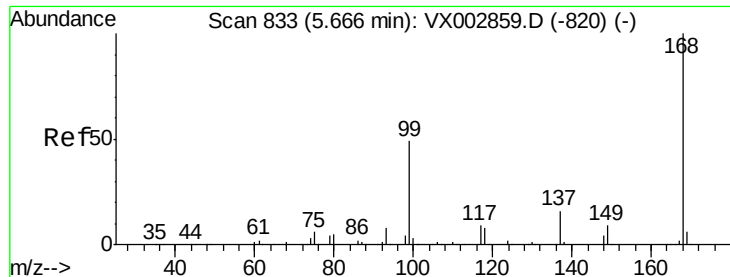
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX003160.D

Acq: 03 Jul 2018 20:20

Instrument :

MSVOA_X

ClientSampleId :

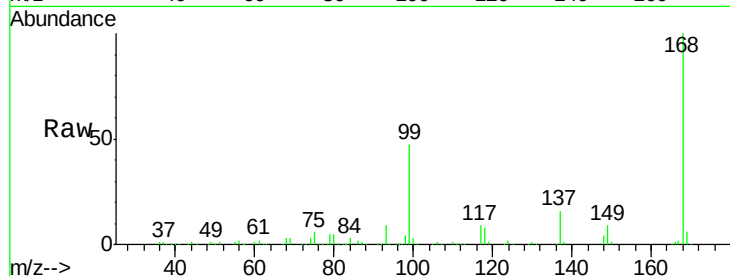
8782-AA

Tot Ion:168 Resp: 262814

Ion Ratio Lower Upper

168 100

99 46.6 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

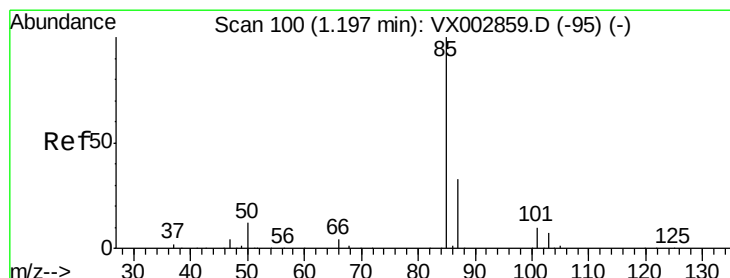
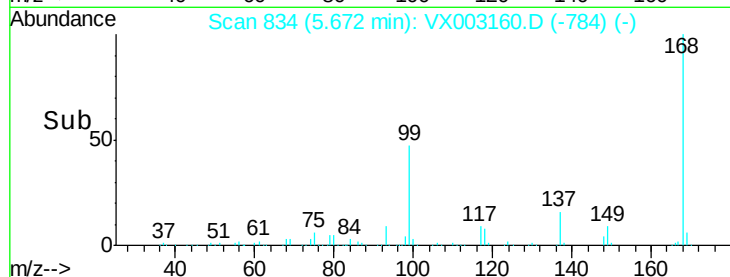
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX003160.D

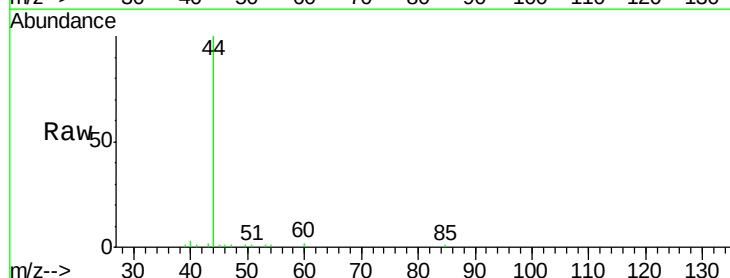
Acq: 03 Jul 2018 20:20

Tgt Ion: 85 Resp: 68

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

1.20

60

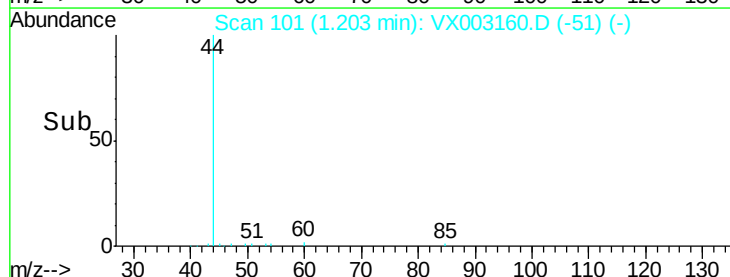
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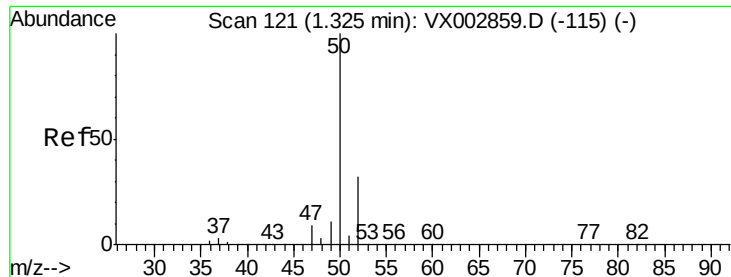
20

0

Time-->

1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003160.D

Acq: 03 Jul 2018 20:20

Instrument :

MSVOA_X

ClientSampled :

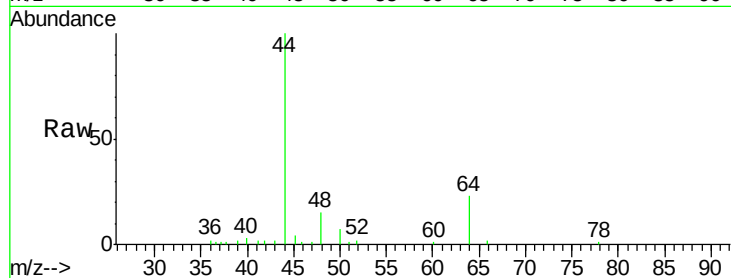
8782-AA

Tot Ion: 50 Resp: 731

Ion Ratio Lower Upper

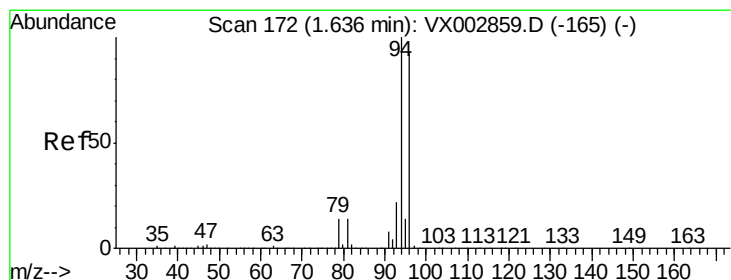
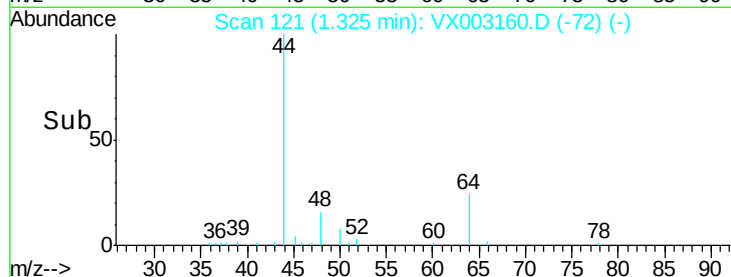
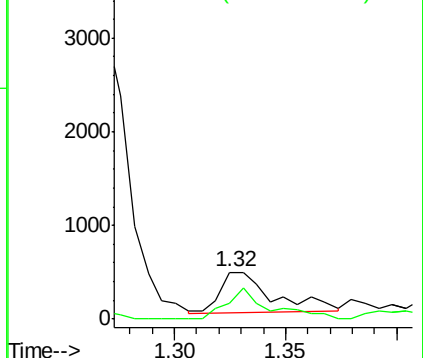
50 100

52 40.7 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: VX003160.D

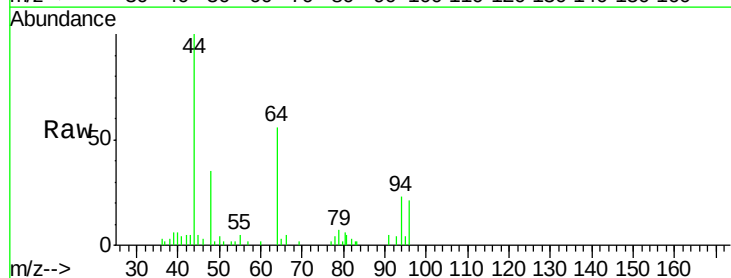
Acq: 03 Jul 2018 20:20

Tgt Ion: 94 Resp: 2109

Ion Ratio Lower Upper

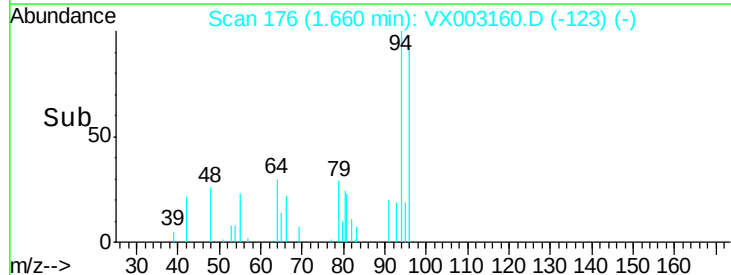
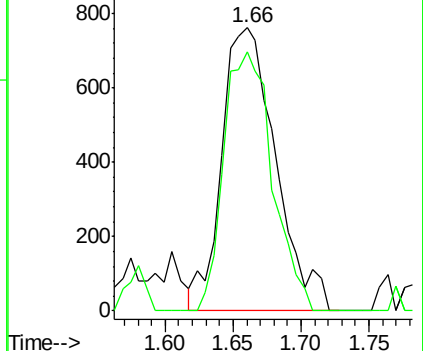
94 100

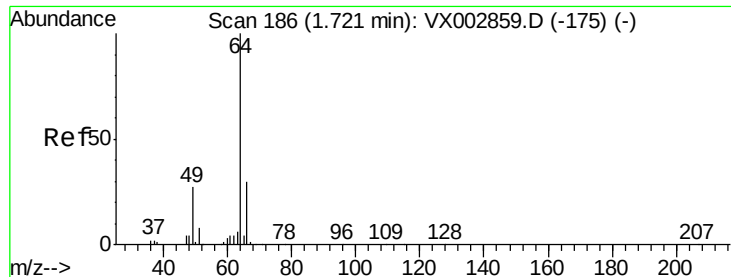
96 91.6 74.9 112.3



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: 1.75 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX003160.D

Acq: 03 Jul 2018 20:20

Instrument :

MSVOA_X

ClientSampleId :

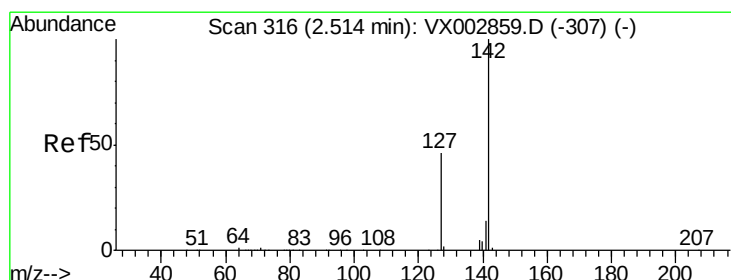
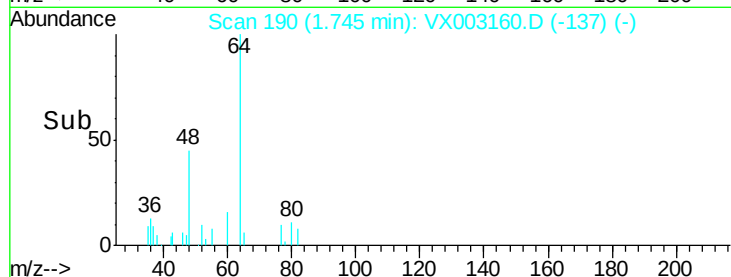
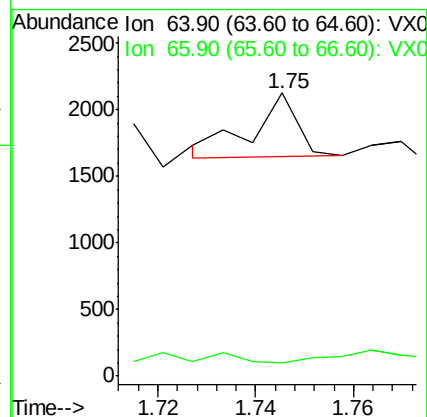
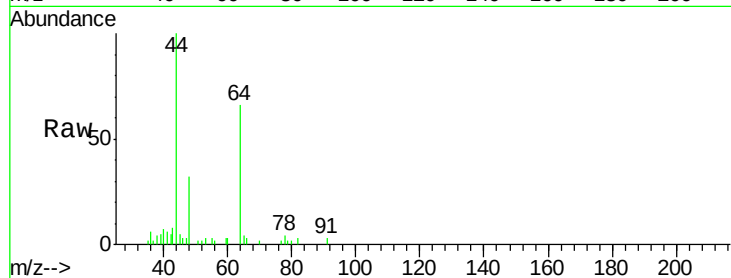
8782-AA

Tot Ion: 64 Resp: 311

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#10

Methyl Iodide

Concen: 6.71 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003160.D

Acq: 03 Jul 2018 20:20

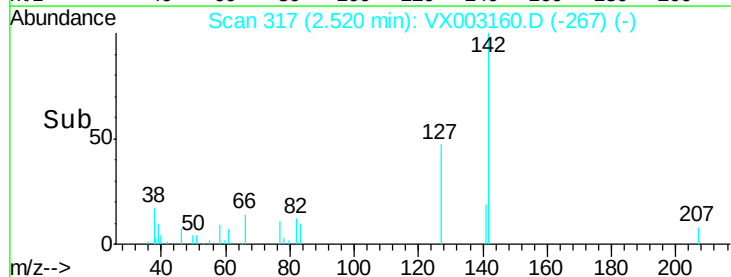
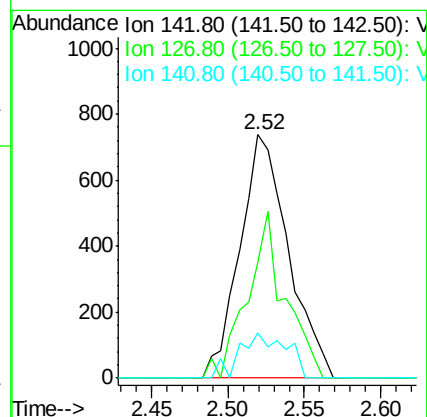
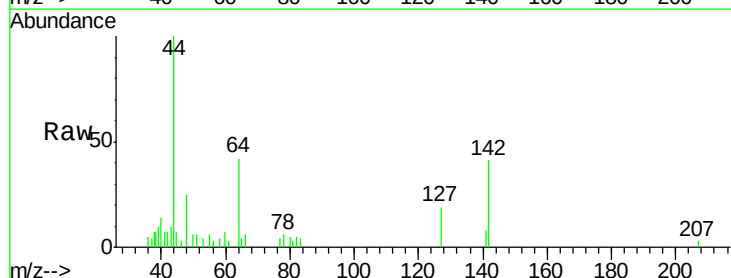
Tgt Ion: 142 Resp: 1625

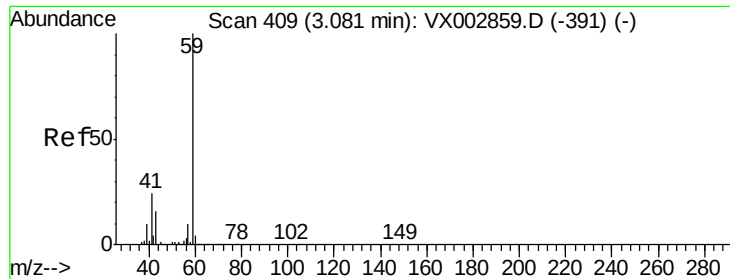
Ion Ratio Lower Upper

142 100

127 52.8 36.6 55.0

141 17.8 11.3 16.9#

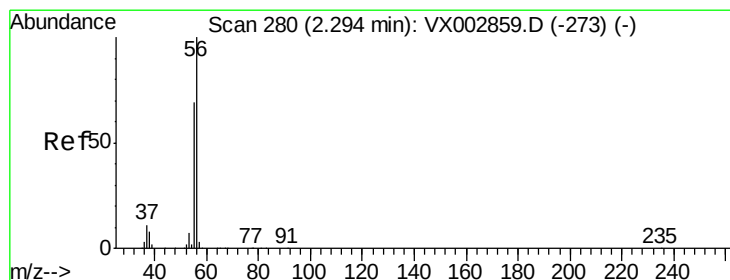
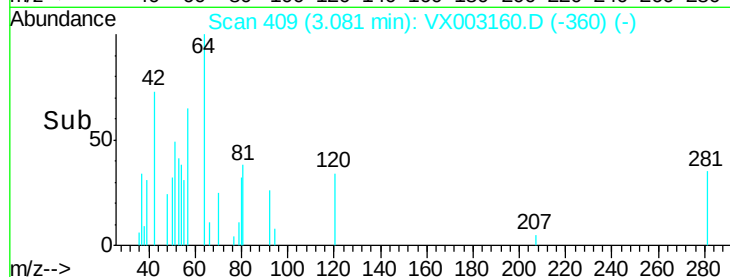
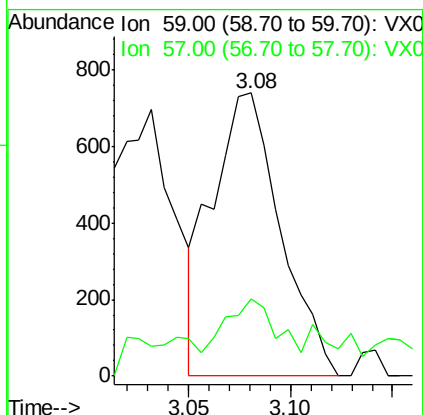
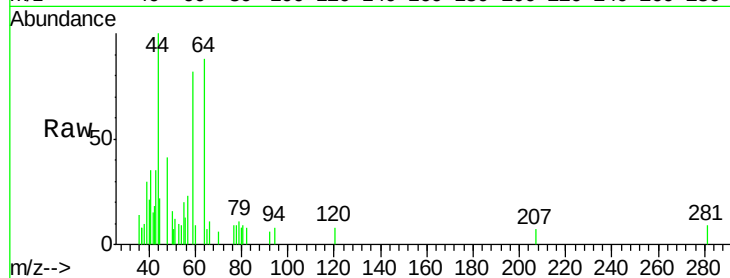




#11
Tert butyl alcohol
Concen: 2.37 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.00 min
Lab File: VX003160.D
Acq: 03 Jul 2018 20:20

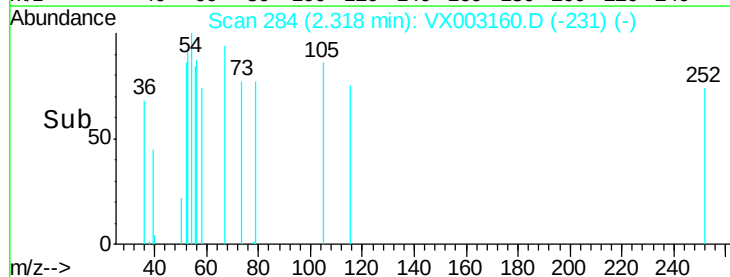
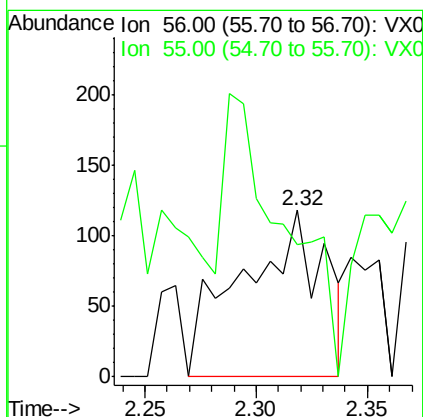
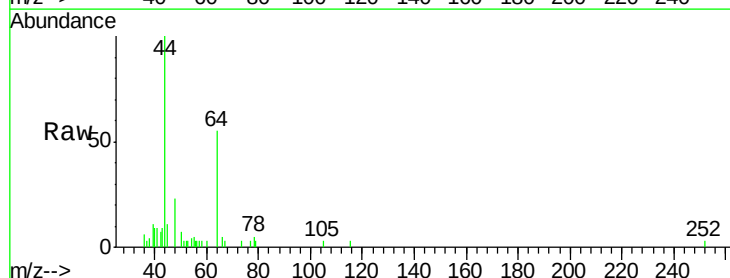
Instrument :
MSVOA_X
ClientSampleId :
8782-AA

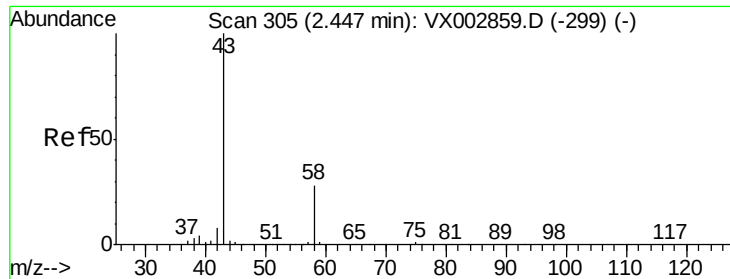
Tot Ion: 59 Resp: 1712
Ion Ratio Lower Upper
59 100
57 13.4 8.2 12.2#



#13
Acrolein
Concen: 4.97 ug/l
RT: 2.32 min Scan# 284
Delta R.T. 0.02 min
Lab File: VX003160.D
Acq: 03 Jul 2018 20:20

Tgt Ion: 56 Resp: 301
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#16

Acetone

Concen: 9.78 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003160.D

Acq: 03 Jul 2018 20:20

Instrument :

MSVOA_X

ClientSampleId :

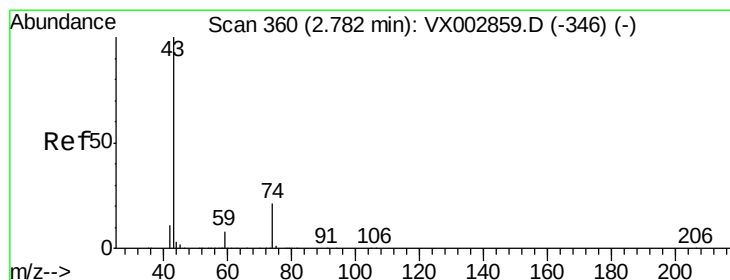
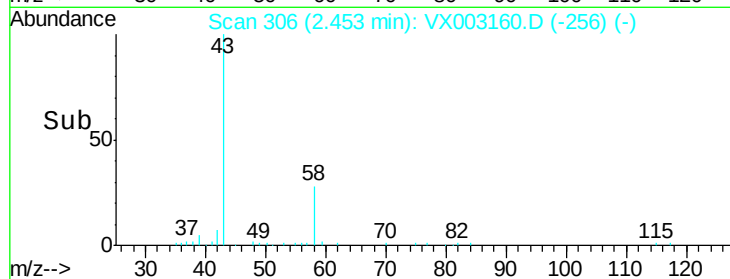
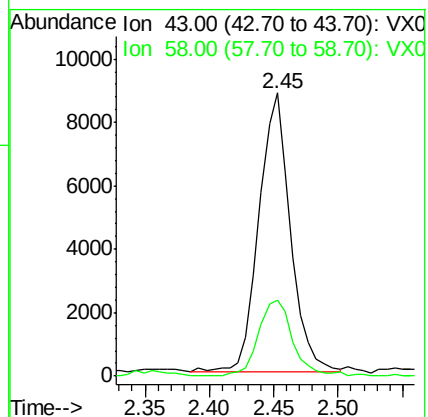
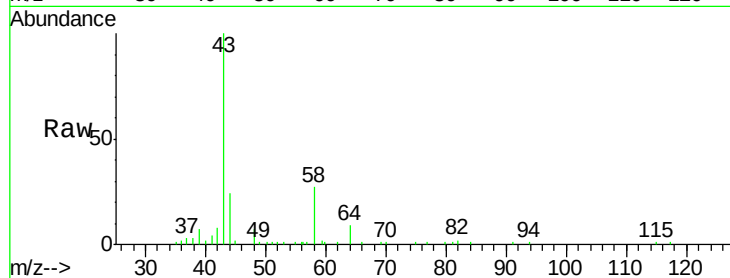
8782-AA

Tot Ion: 43 Resp: 14712

Ion Ratio Lower Upper

43 100

58 27.4 22.1 33.1



#18

Methyl Acetate

Concen: 5.59 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX003160.D

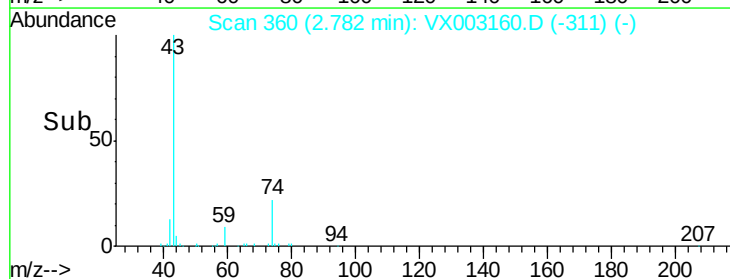
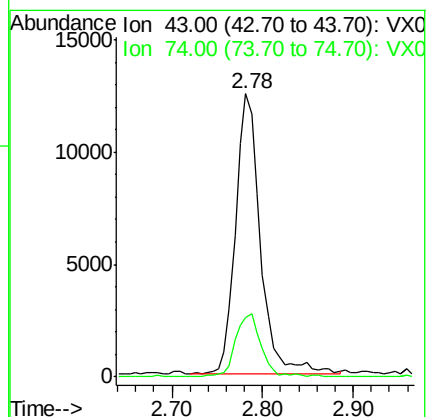
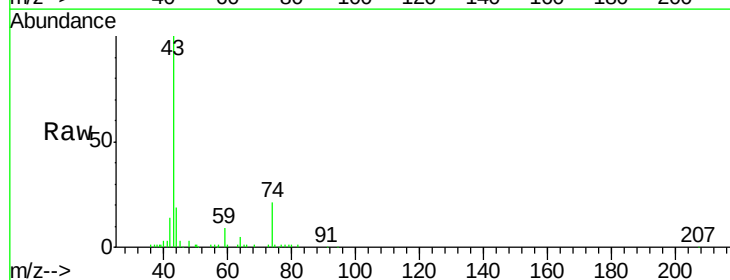
Acq: 03 Jul 2018 20:20

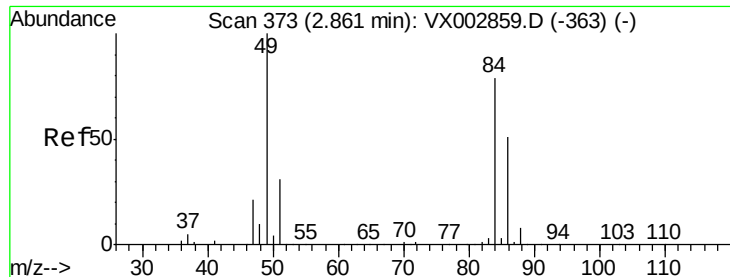
Tgt Ion: 43 Resp: 23510

Ion Ratio Lower Upper

43 100

74 23.2 16.7 25.1

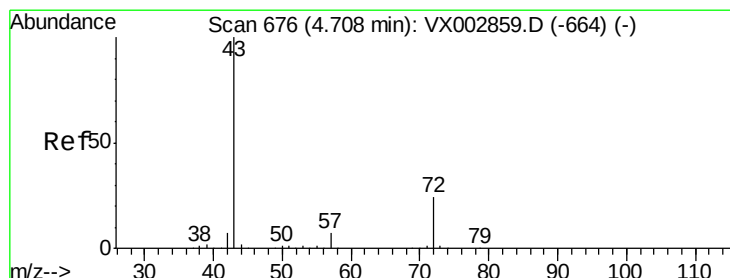
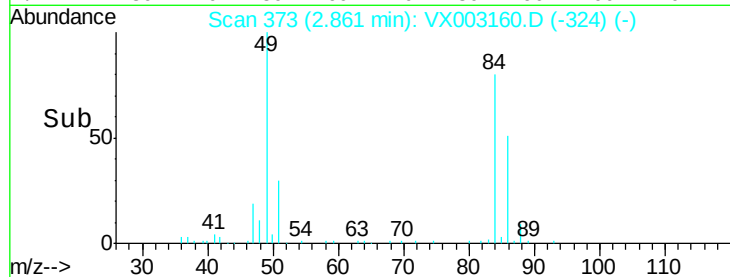
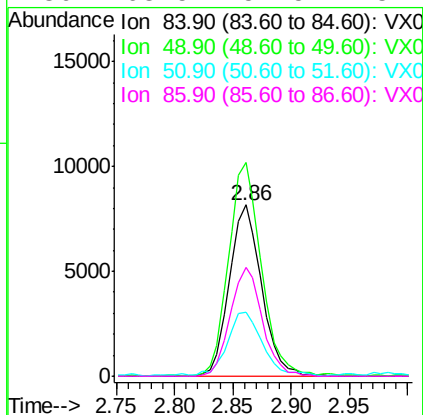
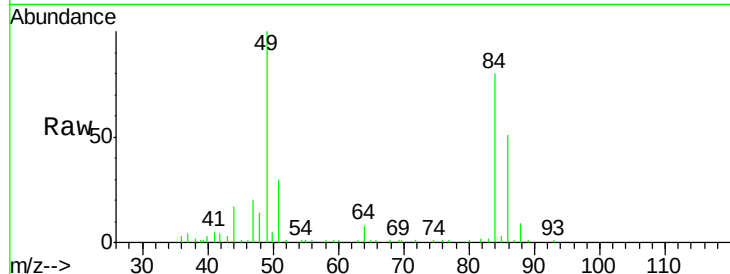




#20
Methvlene Chloride
Concen: 5.38 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX003160.D
Acq: 03 Jul 2018 20:20

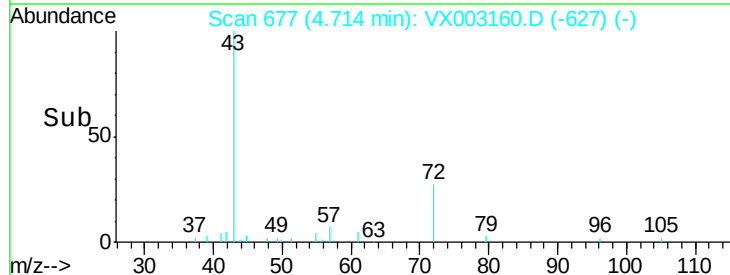
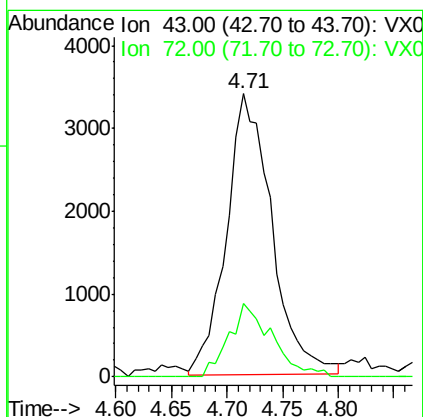
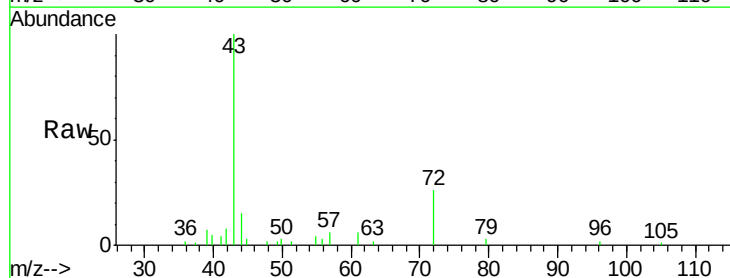
Instrument :
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8782-AA

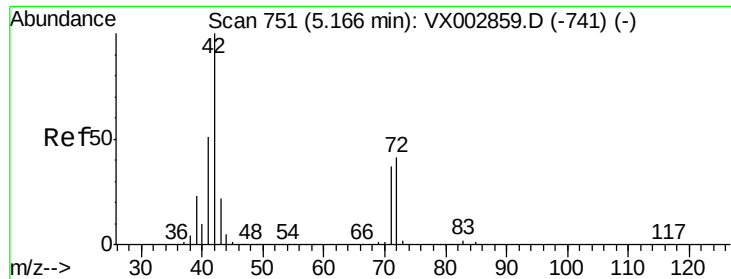
Tot Ion: 84 Resp: 15753
Ion Ratio Lower Upper
84 100
49 124.7 107.8 161.6
51 36.9 32.8 49.2
86 63.5 52.5 78.7



#25
2-Butanone
Concen: 4.30 ug/l
RT: 4.71 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX003160.D
Acq: 03 Jul 2018 20:20

Tgt Ion: 43 Resp: 9600
Ion Ratio Lower Upper
43 100
72 26.4 18.5 27.7

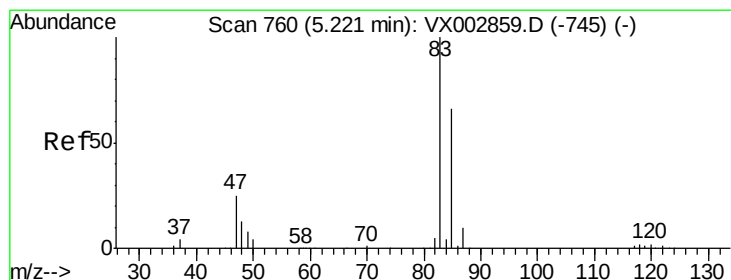
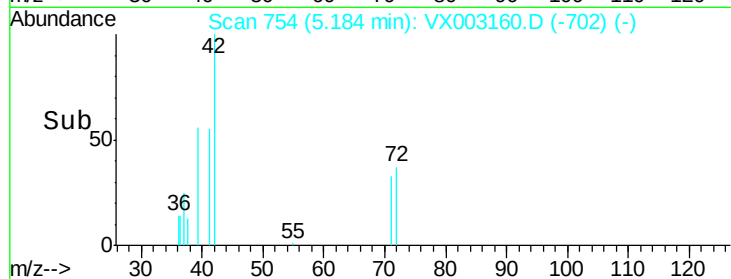
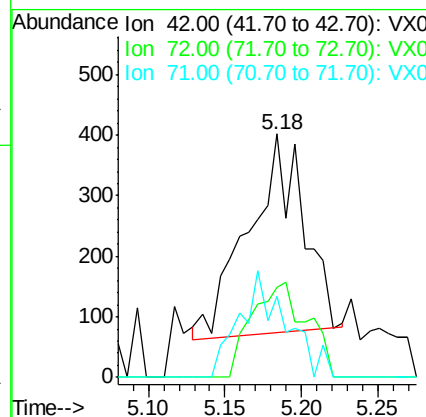
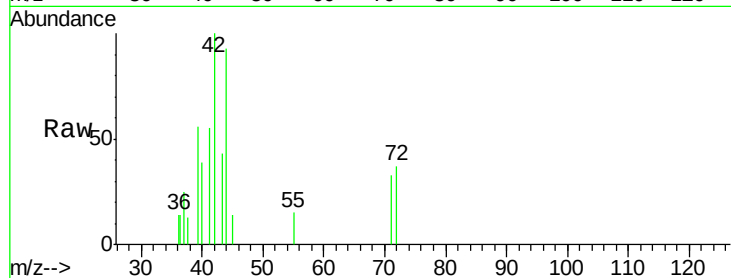




#29
Tetrahydrofuran
Concen: 0.57 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX003160.D
Acq: 03 Jul 2018 20:20

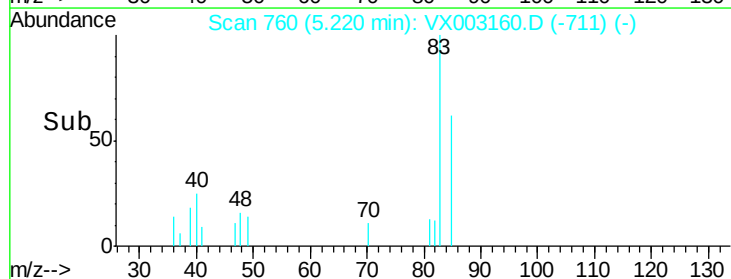
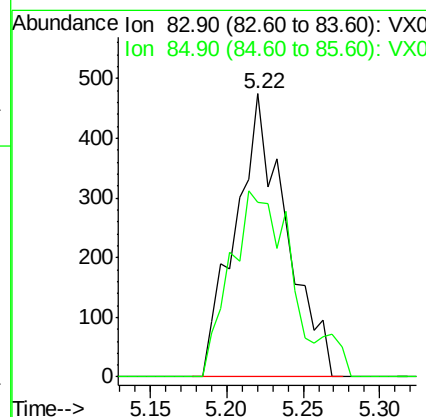
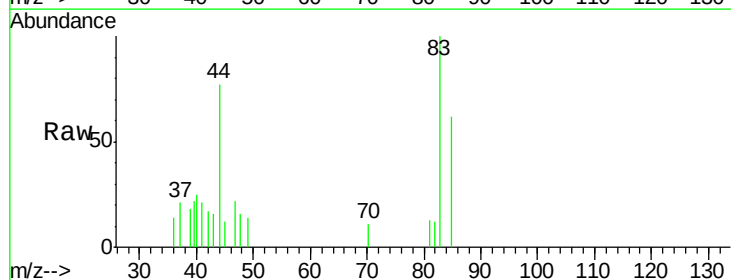
Instrument :
MSVOA_X
ClientSampled :
8782-AA

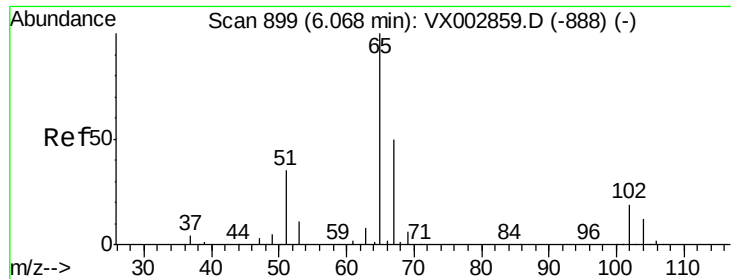
Tot Ion: 42 Resp: 816
Ion Ratio Lower Upper
42 100
72 48.3 32.0 48.0#
71 45.1 30.1 45.1



#30
Chloroform
Concen: 0.20 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX003160.D
Acq: 03 Jul 2018 20:20

Tgt Ion: 83 Resp: 1097
Ion Ratio Lower Upper
83 100
85 61.8 50.4 75.6

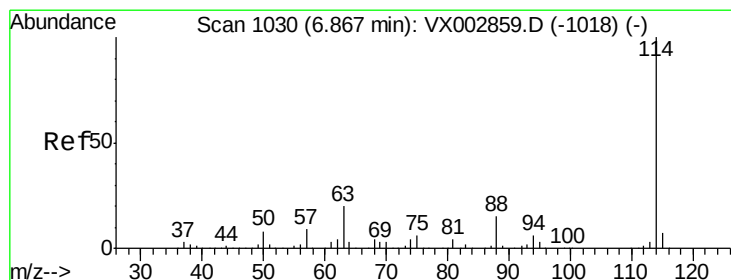
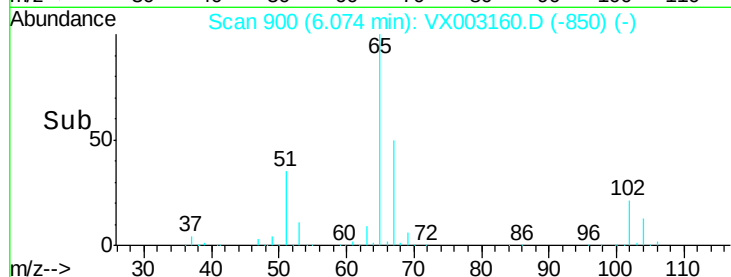
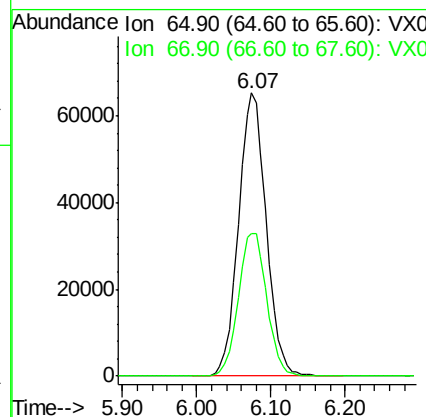
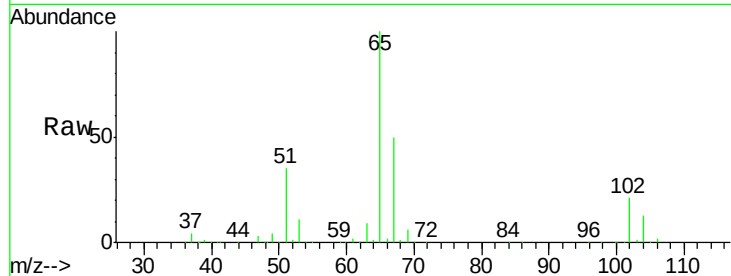




#33
 1,2-Dichloroethane-d4
 Concen: 46.73 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003160.D
 Acq: 03 Jul 2018 20:20

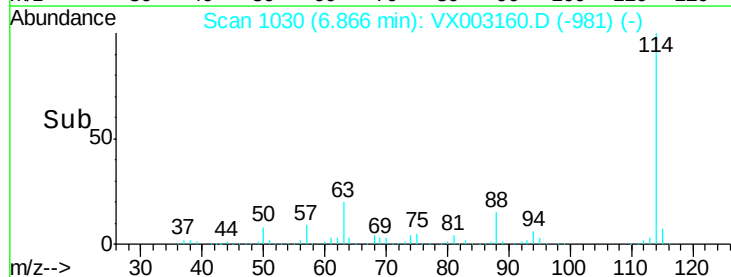
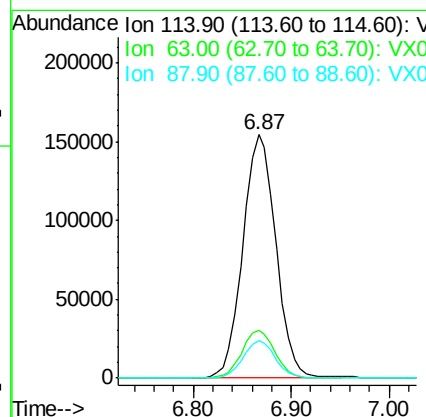
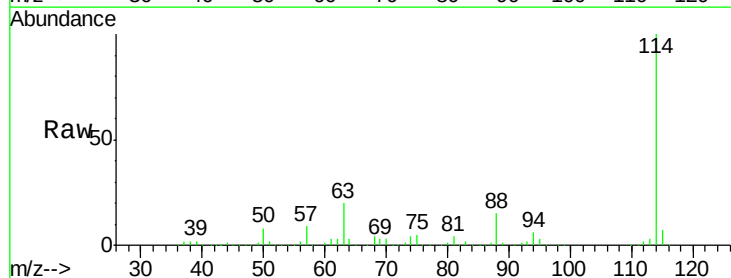
Instrument :
 MSVOA_X
 ClientSampleId :
 8782-AA

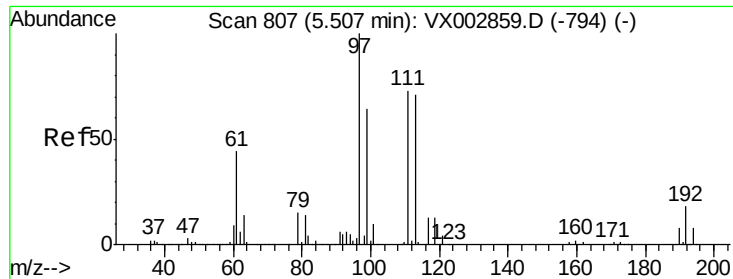
Tot Ion: 65 Resp: 169764
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003160.D
 Acq: 03 Jul 2018 20:20

Tgt Ion: 114 Resp: 361003
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.4
 88 15.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 49.42 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003160.D

Acq: 03 Jul 2018 20:20

Instrument :

MSVOA_X

ClientSampleId :

8782-AA

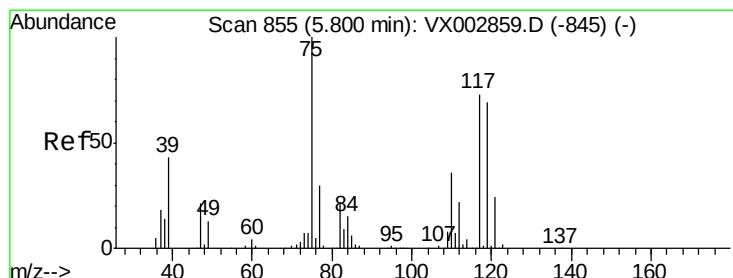
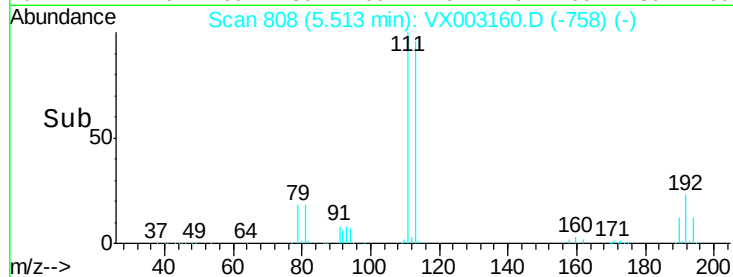
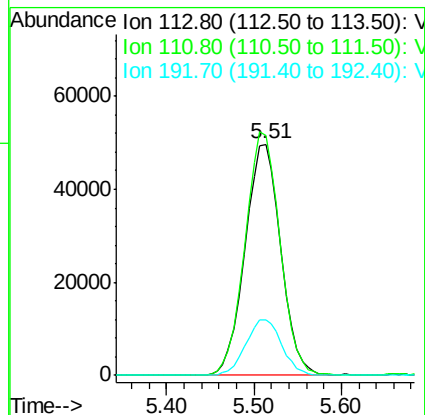
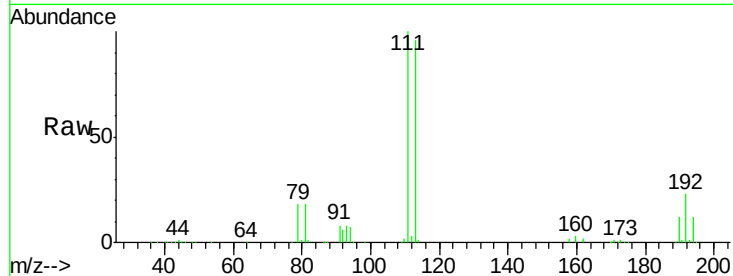
Tot Ion:113 Resp: 141281

Ion Ratio Lower Upper

113 100

111 103.2 81.4 122.0

192 24.6 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.26 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003160.D

Acq: 03 Jul 2018 20:20

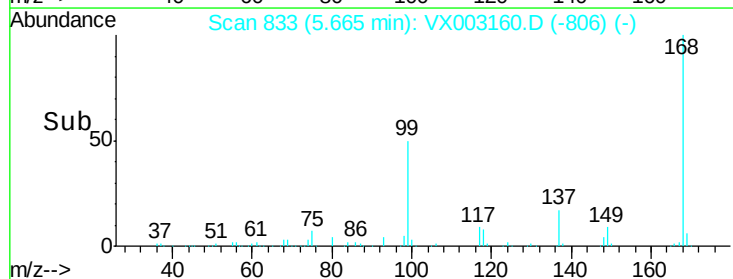
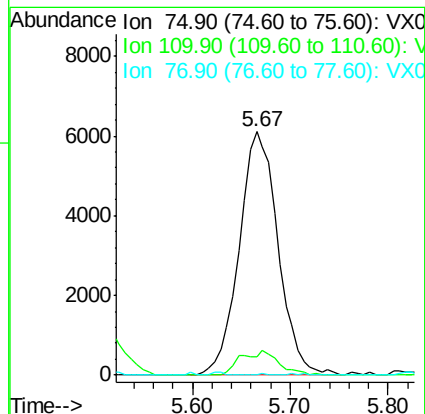
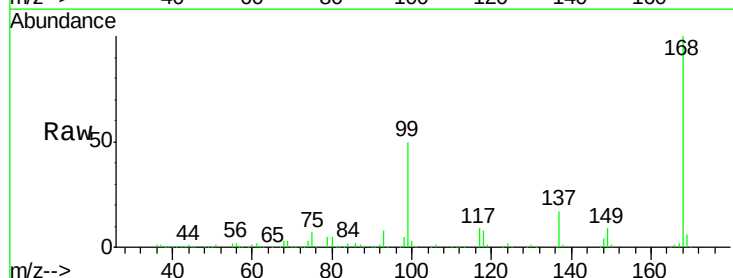
Tgt Ion: 75 Resp: 16865

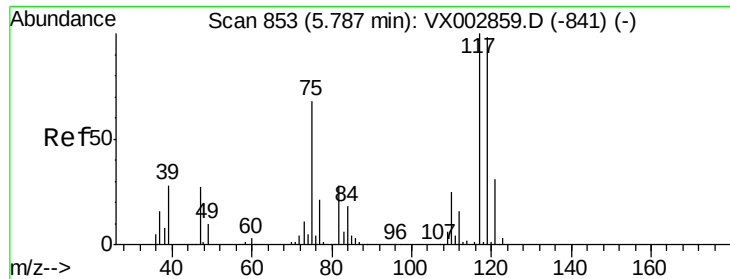
Ion Ratio Lower Upper

75 100

110 3.8 18.1 54.4#

77 0.1 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.39 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003160.D

Acq: 03 Jul 2018 20:20

Instrument :

MSVOA_X

ClientSampled :

8782-AA

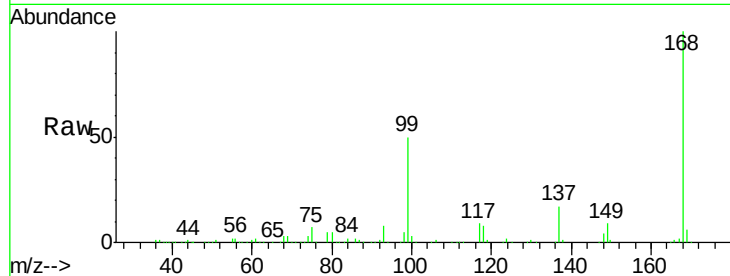
Tot Ion:117 Resp: 23430

Ion Ratio Lower Upper

117 100

119 6.0 77.4 116.0#

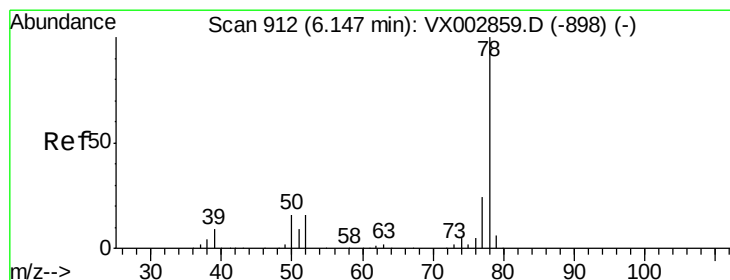
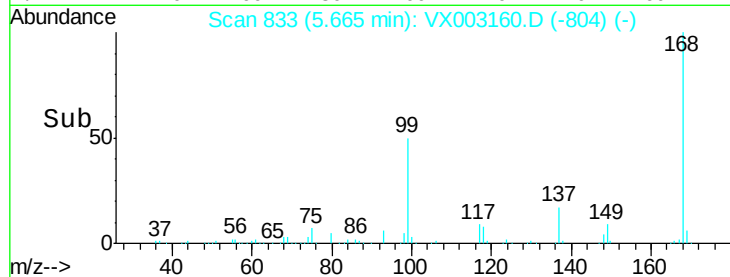
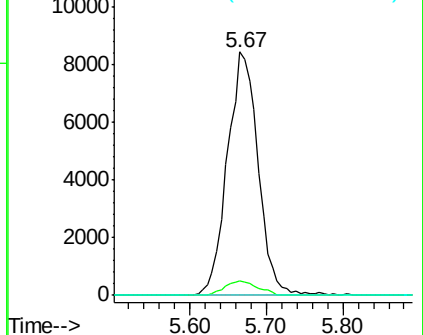
121 0.0 24.4 36.6#



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: 0.34 ug/l

RT: 6.15 min Scan# 913

Delta R.T. 0.01 min

Lab File: VX003160.D

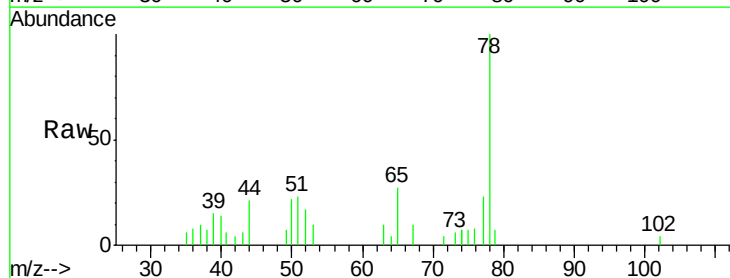
Acq: 03 Jul 2018 20:20

Tgt Ion: 78 Resp: 3926

Ion Ratio Lower Upper

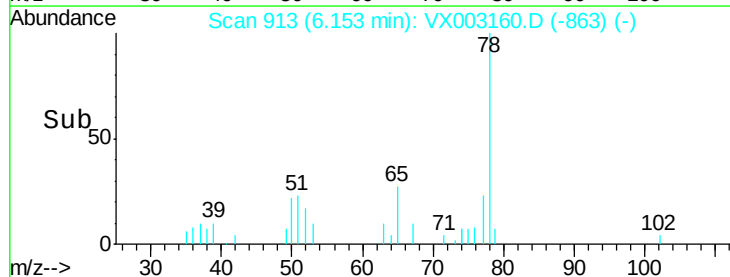
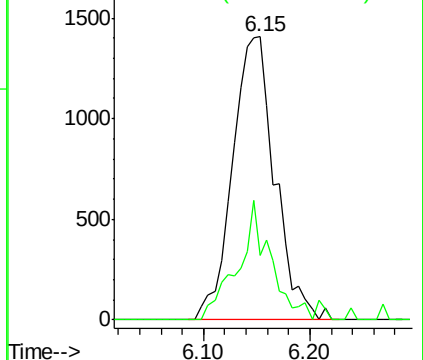
78 100

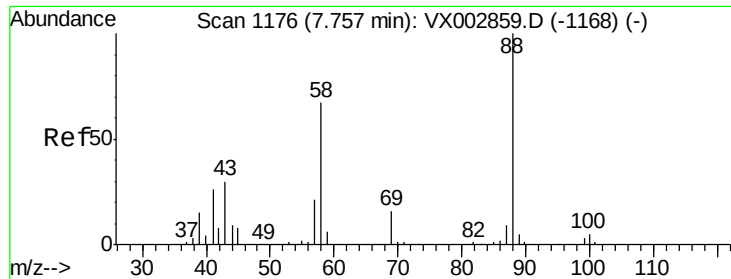
77 22.6 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

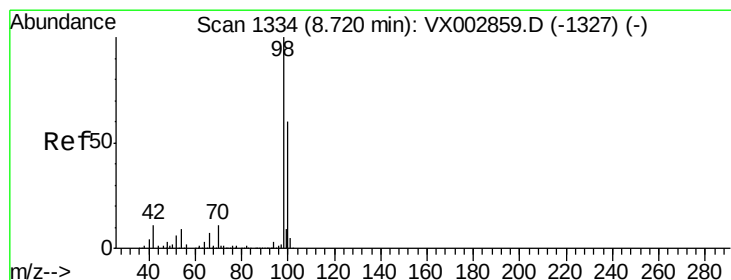
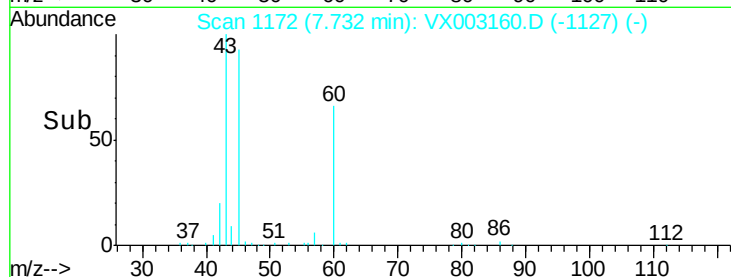
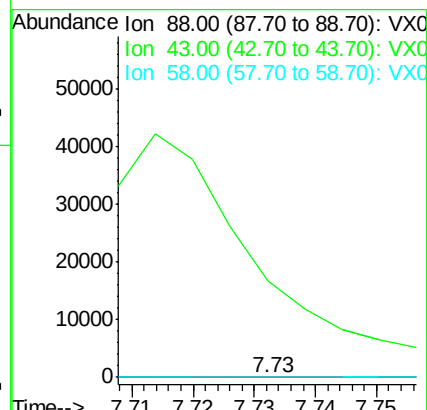
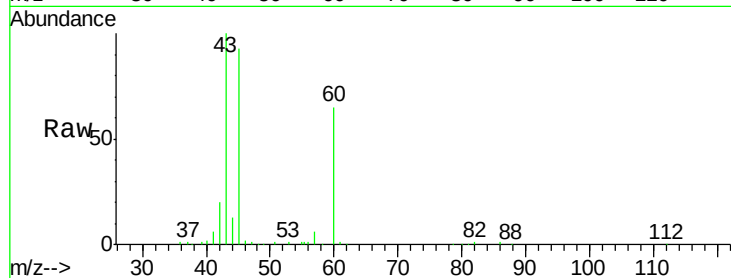




#49
 1,4-Dioxane
 Concen: 0.28 ug/l
 RT: 7.73 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: VX003160.D
 Acq: 03 Jul 2018 20:20

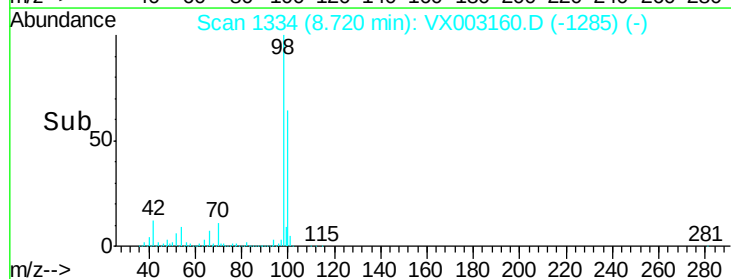
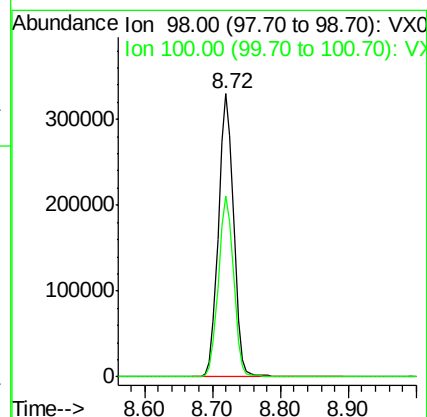
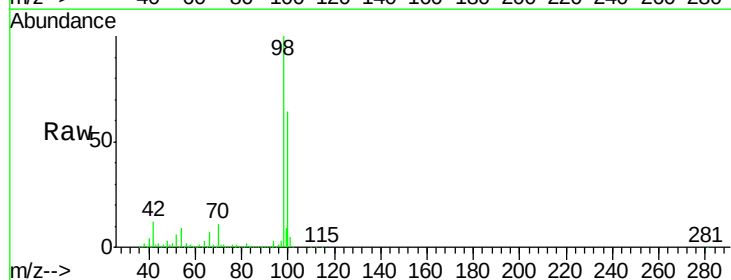
Instrument :
 MSVOA_X
 ClientSampled :
 8782-AA

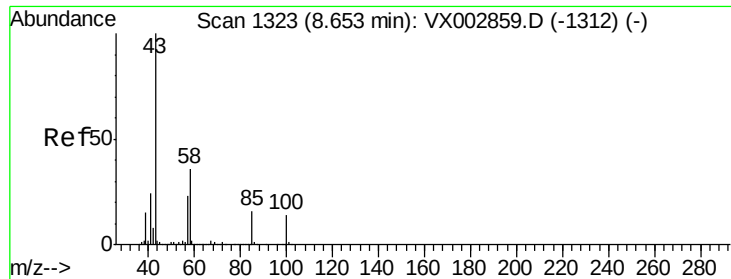
Tot Ion: 88 Resp: 20
 Ion Ratio Lower Upper
 88 100
 43 0.0 29.8 44.6#
 58 440.0 57.1 85.7#



#50
 Toluene-d8
 Concen: 49.14 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX003160.D
 Acq: 03 Jul 2018 20:20

Tgt Ion: 98 Resp: 513026
 Ion Ratio Lower Upper
 98 100
 100 63.7 50.9 76.3

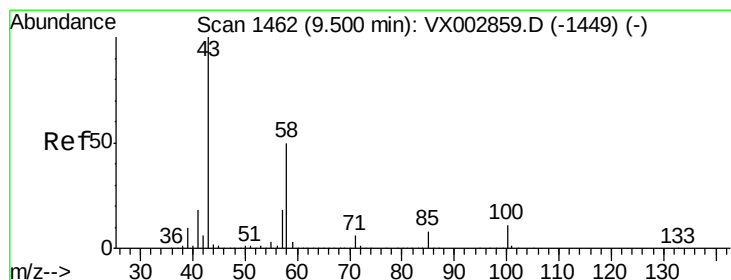
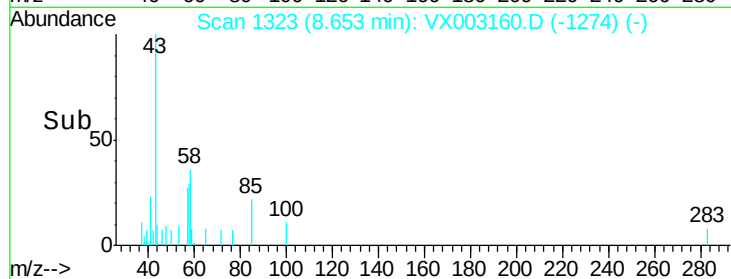
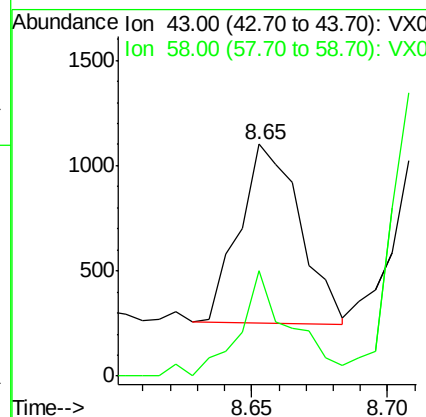
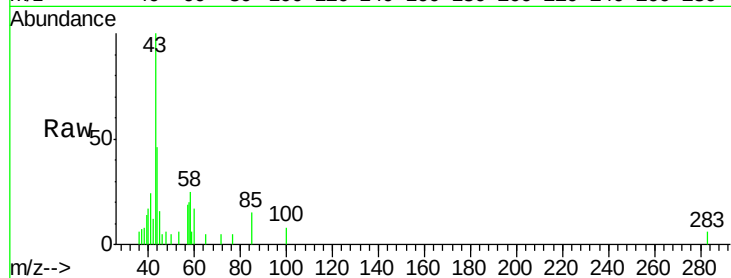




#51
 4-Methyl-2-Pentanone
 Concen: 0.29 ug/l
 RT: 8.65 min Scan# 1323
 Delta R.T. -0.00 min
 Lab File: VX003160.D
 Acq: 03 Jul 2018 20:20

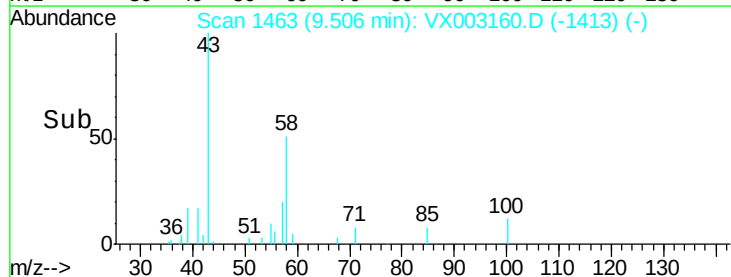
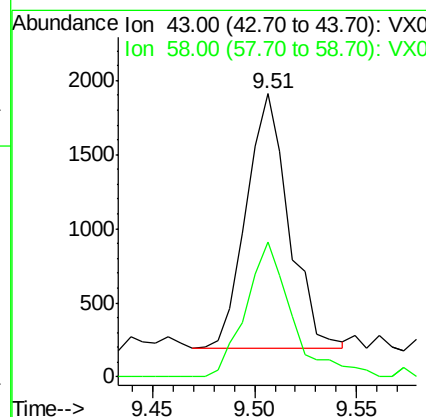
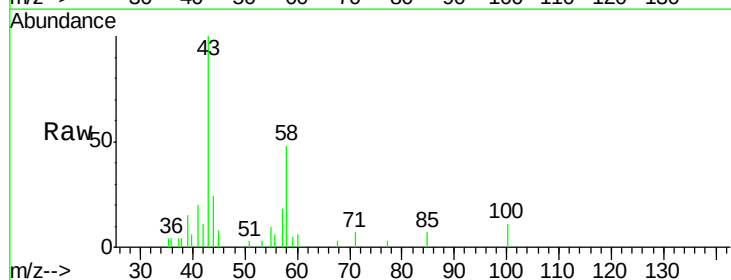
Instrument :
 MSVOA_X
 ClientSampled :
 8782-AA

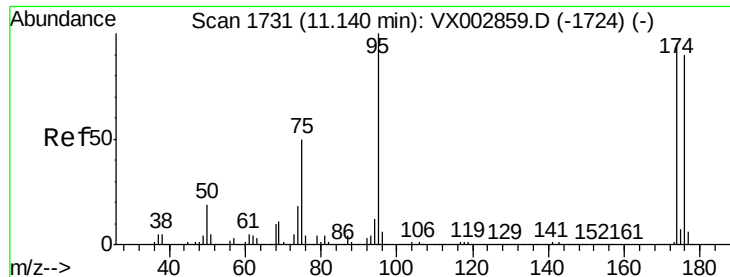
Tot Ion: 43 Resp: 1309
 Ion Ratio Lower Upper
 43 100
 58 50.8 28.6 42.8#



#59
 2-Hexanone
 Concen: 0.74 ug/l
 RT: 9.51 min Scan# 1463
 Delta R.T. 0.01 min
 Lab File: VX003160.D
 Acq: 03 Jul 2018 20:20

Tgt Ion: 43 Resp: 2507
 Ion Ratio Lower Upper
 43 100
 58 57.2 24.6 73.6

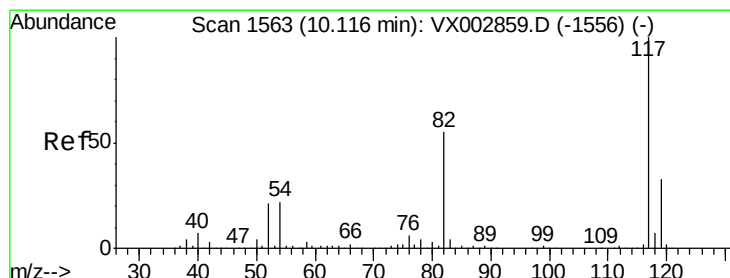
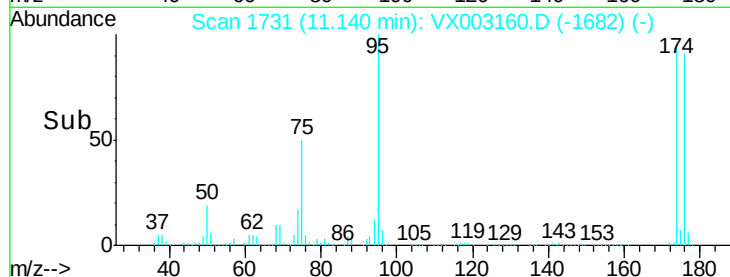
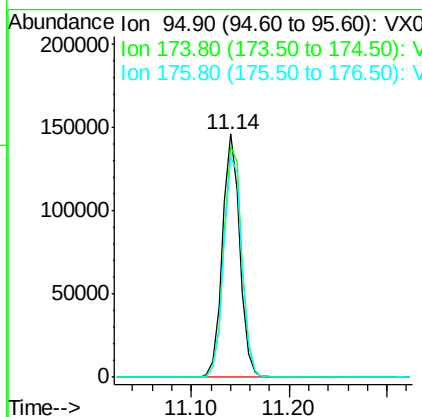
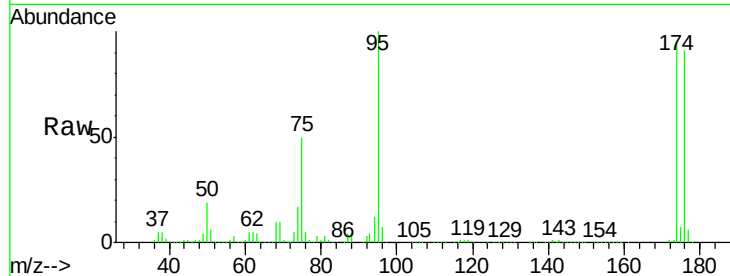




#62
4-Bromofluorobenzene
Concen: 44.53 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003160.D
Acq: 03 Jul 2018 20:20

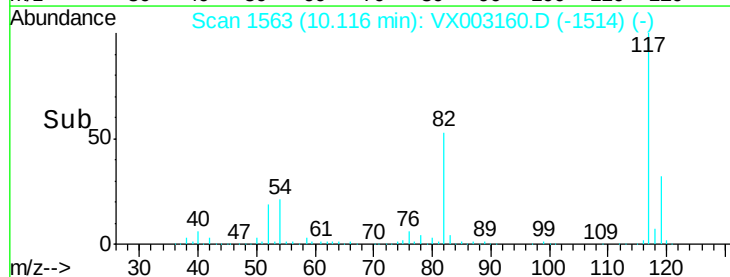
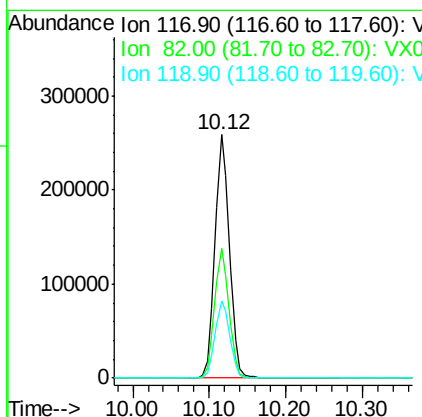
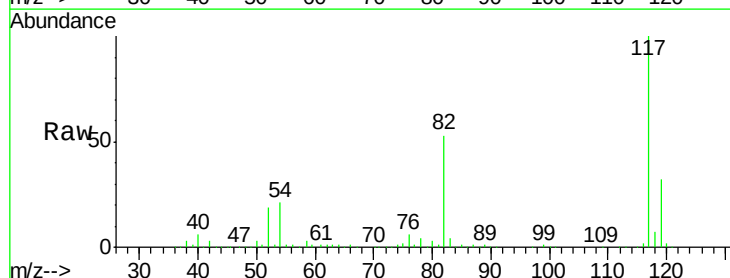
Instrument :
MSVOA_X
ClientSampleId :
8782-AA

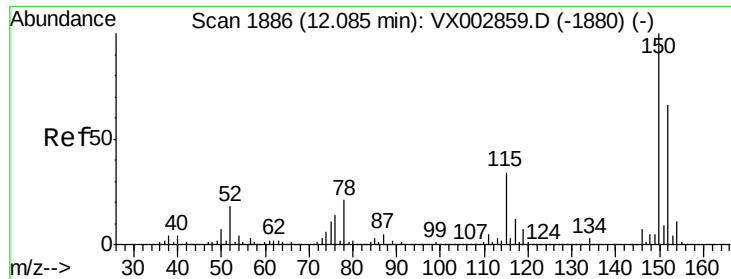
Tot Ion: 95 Resp: 179293
Ion Ratio Lower Upper
95 100
174 99.7 0.0 187.4
176 95.4 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003160.D
Acq: 03 Jul 2018 20:20

Tgt Ion: 117 Resp: 338905
Ion Ratio Lower Upper
117 100
82 53.1 45.0 67.4
119 31.6 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX003160.D

Acq: 03 Jul 2018 20:20

Instrument :

MSVOA_X

ClientSampled :

8782-AA

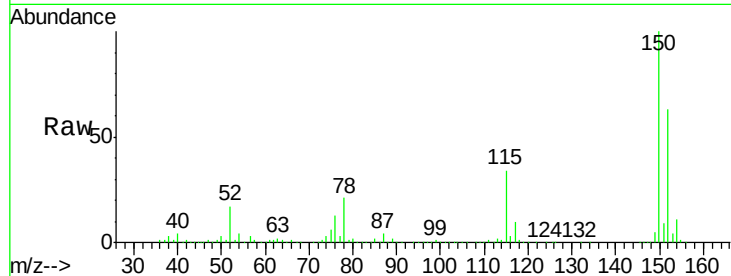
Tot Ion:152 Resp: 193197

Ion Ratio Lower Upper

152 100

115 54.3 40.1 120.2

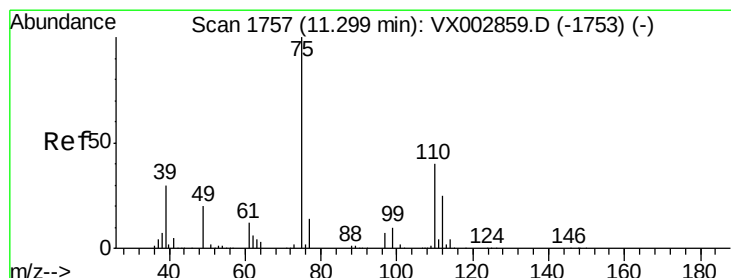
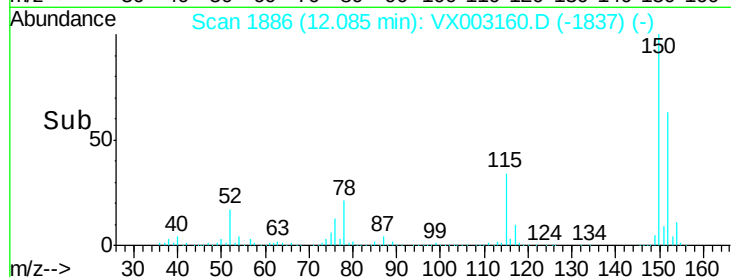
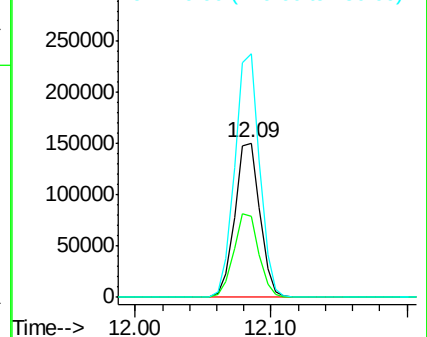
150 156.7 0.0 347.2



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: 26.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003160.D

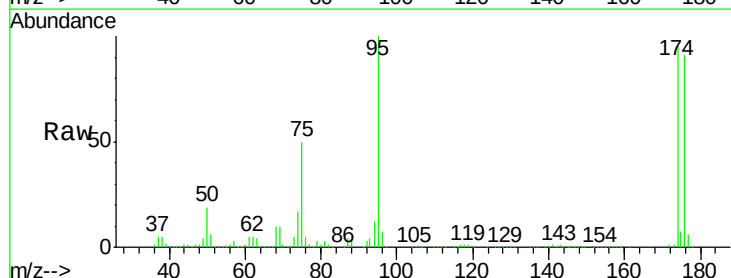
Acq: 03 Jul 2018 20:20

Tgt Ion: 75 Resp: 91470

Ion Ratio Lower Upper

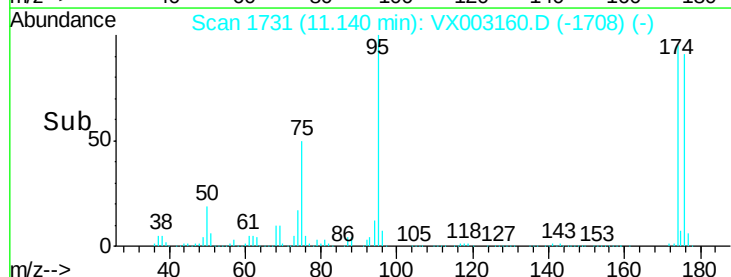
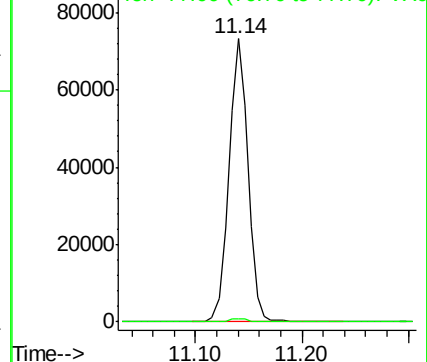
75 100

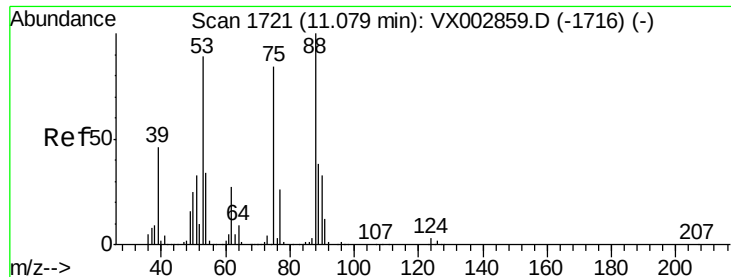
77 1.3 22.8 68.3#



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: 74.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003160.D

Acq: 03 Jul 2018 20:20

Instrument :

MSVOA_X

ClientSampleId :

8782-AA

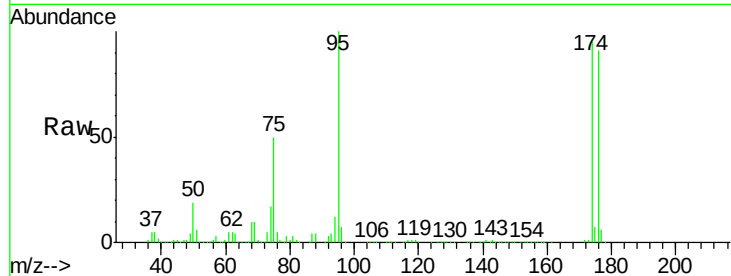
Tot Ion: 75 Resp: 91470

Ion Ratio Lower Upper

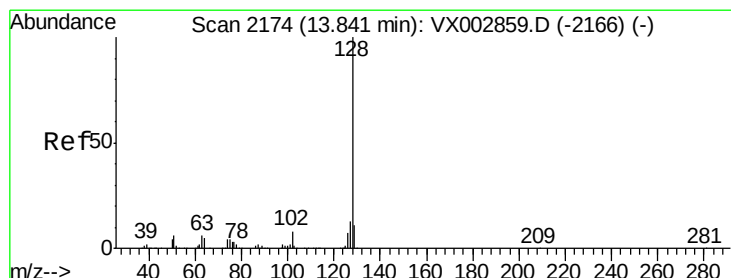
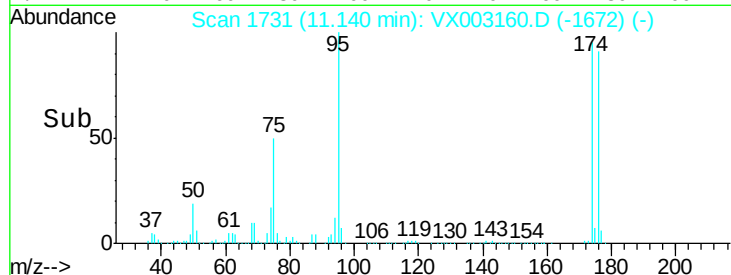
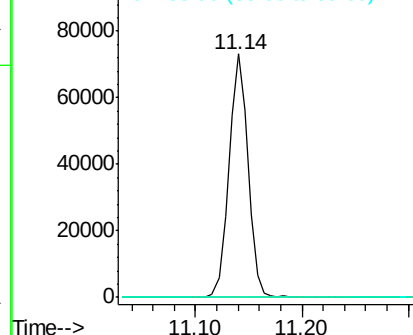
75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



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



#95

Naphthalene

Concen: 1.93 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX003160.D

Acq: 03 Jul 2018 20:20

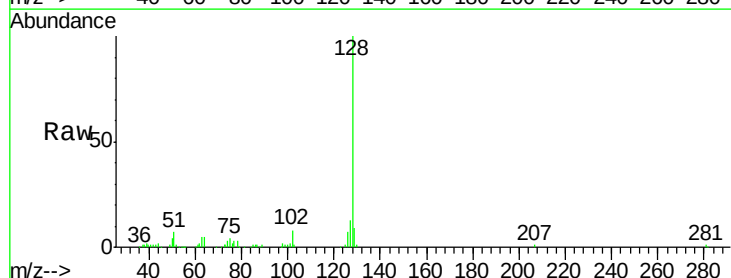
Tgt Ion: 128 Resp: 25464

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

129 10.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

