

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052218\
 Data File : VX001892.D
 Acq On : 22 May 2018 14:35
 Operator : JC/MD
 Sample : VX0522WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 01:12:24 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X051518W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 15 01:36:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	237575	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	320574	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	279944	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	153809	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	165325	51.92	ug/l	0.00
Spiked Amount			Recovery	=	103.84%	
35) Dibromofluoromethane	5.51	113	131179	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
50) Toluene-d8	8.72	98	465795	48.07	ug/l	0.00
Spiked Amount			Recovery	=	96.14%	
62) 4-Bromofluorobenzene	11.14	95	148194	42.48	ug/l	0.00
Spiked Amount			Recovery	=	84.96%	

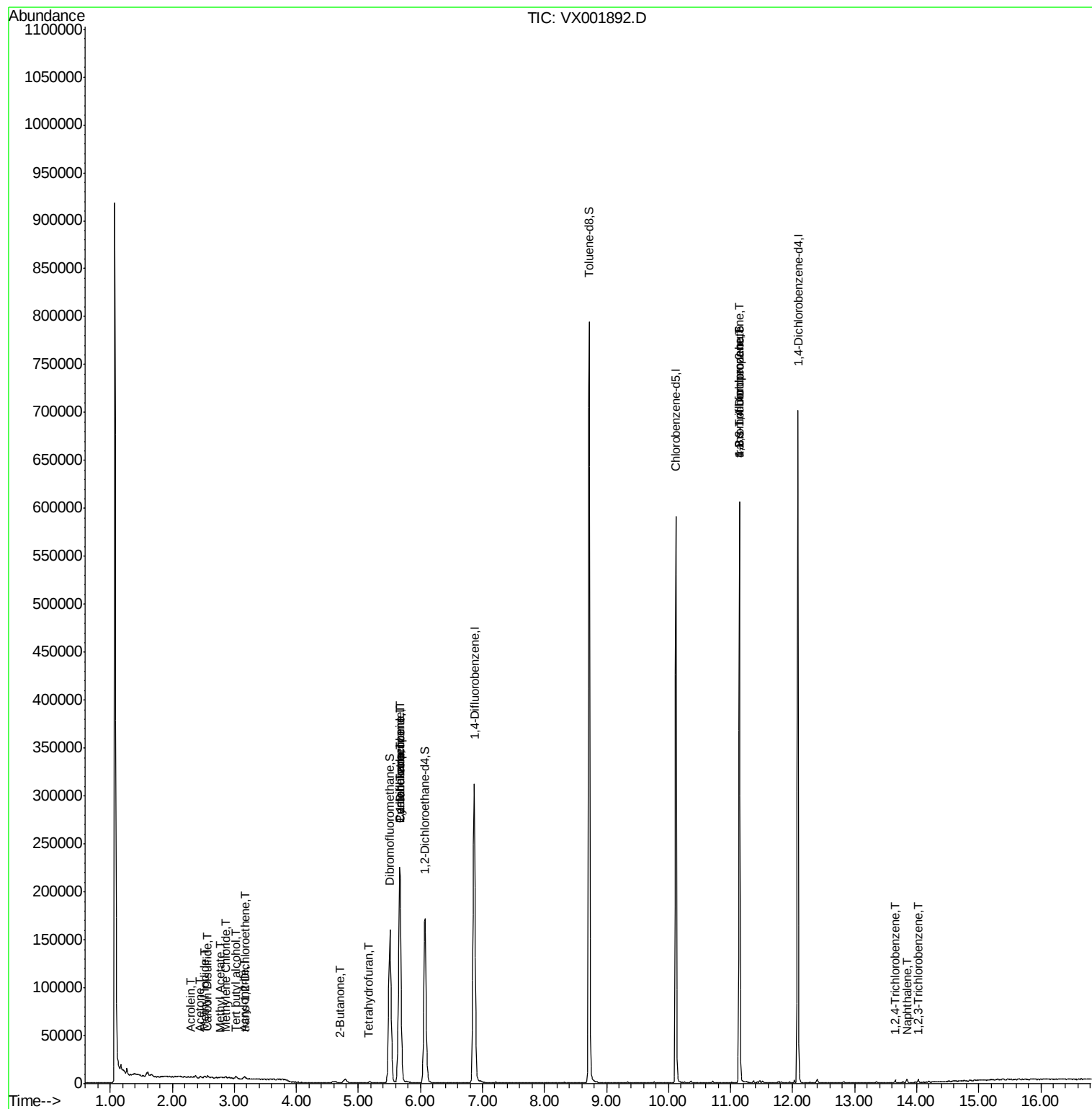
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1296	Below Cal		87
10) Methyl Iodide	2.51	142	2227	0.99 ug/l	#	93
11) Tert butyl alcohol	3.03	59	1177	2.08 ug/l	#	72
13) Acrolein	2.31	56	298	0.74 ug/l	#	70
15) Acrylonitrile	3.15	53	935	0.66 ug/l	#	72
16) Acetone	2.45	43	854	0.68 ug/l		92
17) Carbon Disulfide	2.57	76	2014	0.33 ug/l	#	76
18) Methyl Acetate	2.78	43	867	0.24 ug/l		94
20) Methylene Chloride	2.86	84	666	0.25 ug/l	#	73
21) trans-1,2-Dichloroethene	3.17	96	618	0.24 ug/l	#	75
25) 2-Butanone	4.70	43	391	0.20 ug/l	#	51
29) Tetrahydrofuran	5.17	42	517	0.41 ug/l	#	63
31) Cyclohexane	5.66	56	4020	1.00 ug/l	#	15
36) 1,1-Dichloropropene	5.66	75	14659	3.97 ug/l	#	49
38) Carbon Tetrachloride	5.67	117	20144	5.21 ug/l	#	16
76) 1,2,3-Trichloropropane	11.14	75	71516	24.45 ug/l	#	39
81) trans-1,4-Dichloro-2-buten	11.14	75	71516	71.36 ug/l	#	10
93) 1,2,4-Trichlorobenzene	13.65	180	896	0.20 ug/l		97
95) Naphthalene	13.84	128	2406	0.21 ug/l		98
96) 1,2,3-Trichlorobenzene	14.02	180	902	0.20 ug/l		92

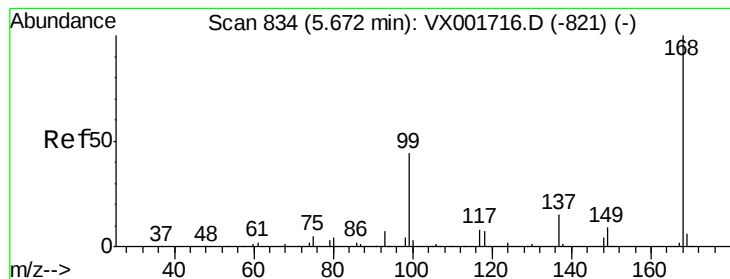
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 15 01:36:22 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

Instrument :

MSVOA_X

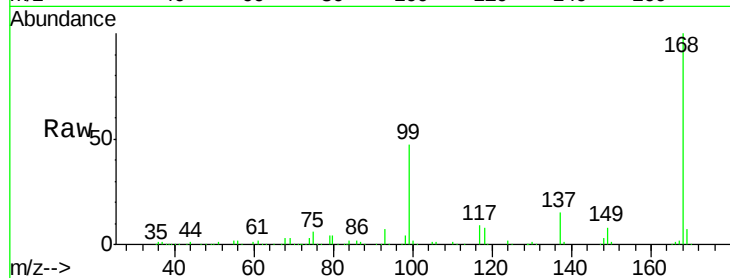
ClientSampled :

Tot Ion:168 Resp: 237575

Ion Ratio Lower Upper

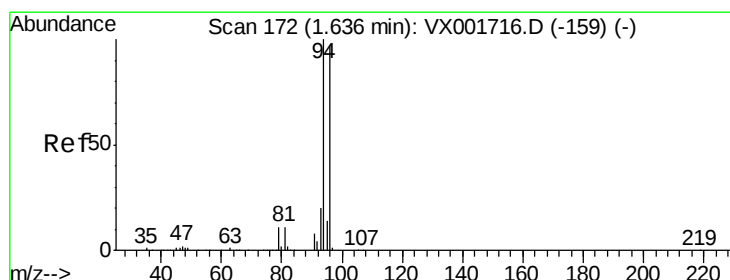
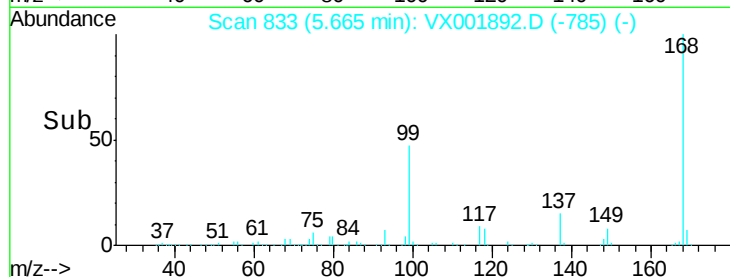
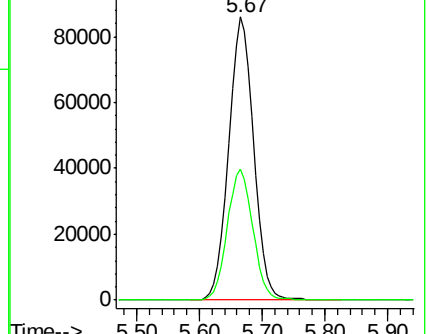
168 100

99 46.5 35.0 52.4



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: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001892.D

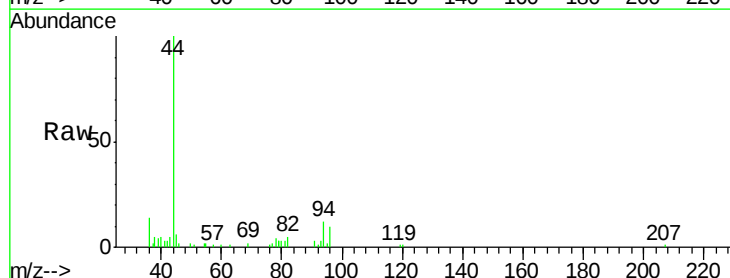
Acq: 22 May 2018 14:35

Tgt Ion: 94 Resp: 1296

Ion Ratio Lower Upper

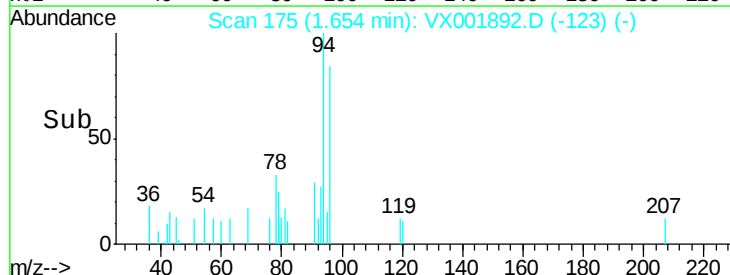
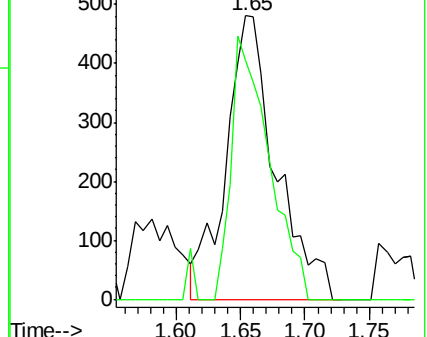
94 100

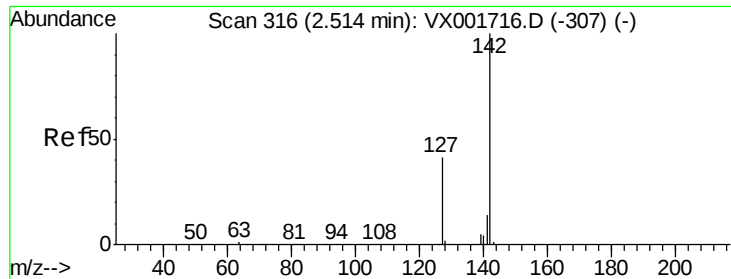
96 84.4 77.4 116.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

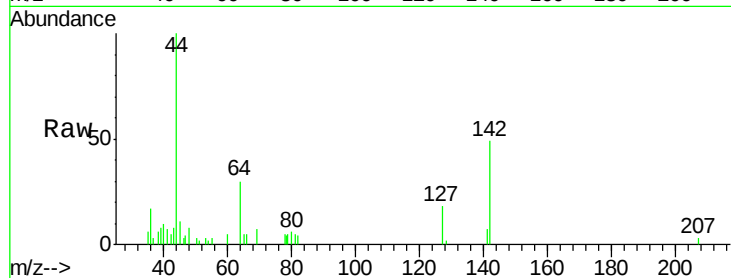




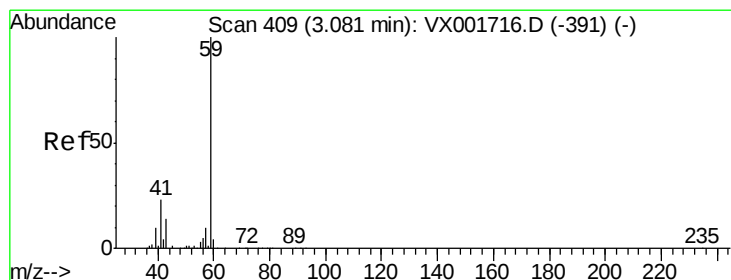
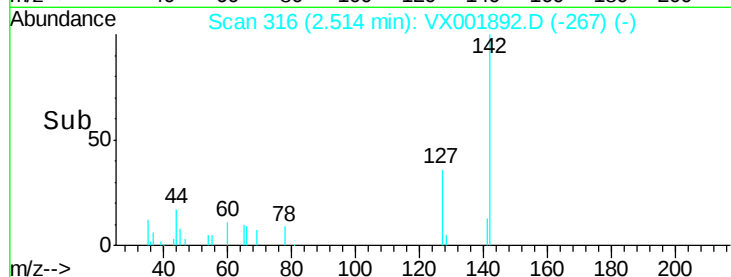
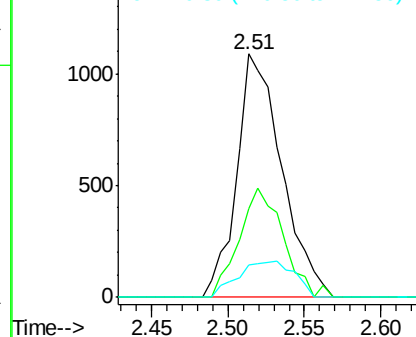
#10
Methvl Iodide
Concen: 0.99 ug/l
RT: 2.51 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX001892.D
Acq: 22 May 2018 14:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 2227
Ion Ratio Lower Upper
142 100
127 44.0 32.5 48.7
141 18.5 11.4 17.0#

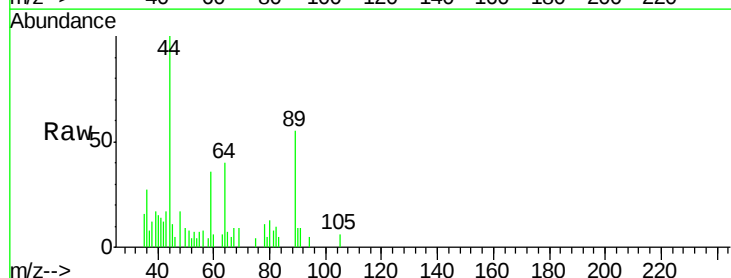


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

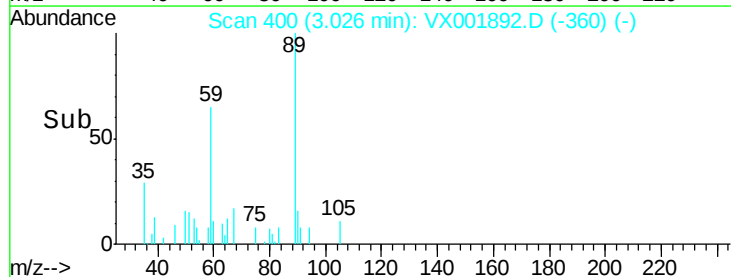
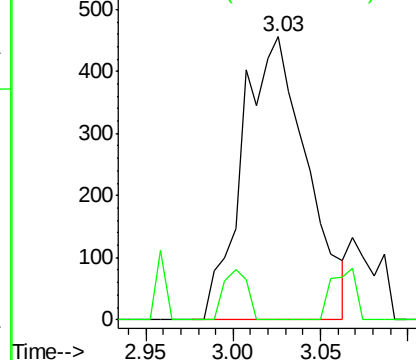


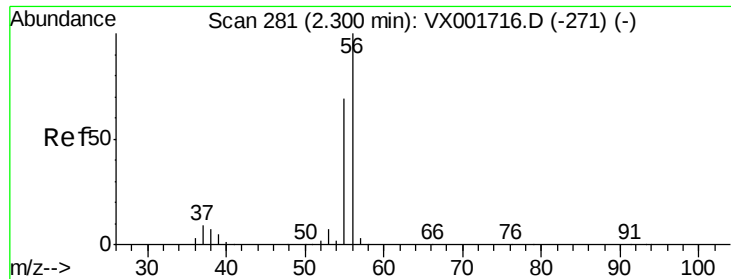
#11
Tert butyl alcohol
Concen: 2.08 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.06 min
Lab File: VX001892.D
Acq: 22 May 2018 14:35

Tgt Ion: 59 Resp: 1177
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



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





#13

Acrolein

Concen: 0.74 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

Instrument :

MSVOA_X

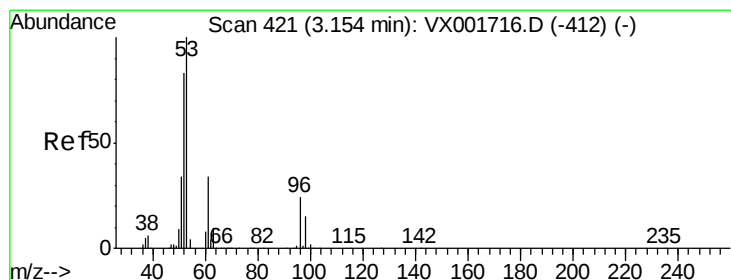
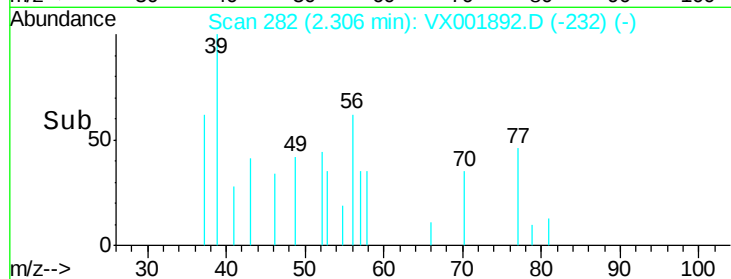
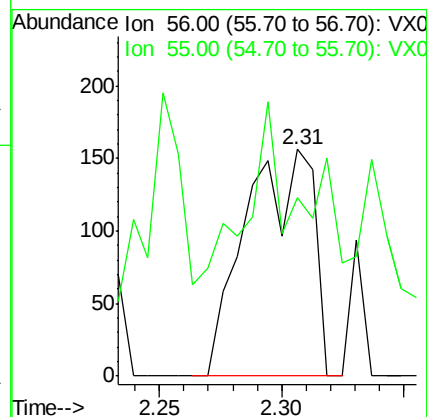
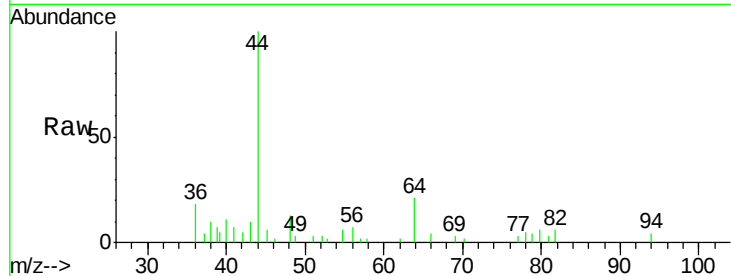
ClientSampled :

Tot Ion: 56 Resp: 298

Ion Ratio Lower Upper

56 100

55 45.3 56.2 84.2#



#15

Acrylonitrile

Concen: 0.66 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

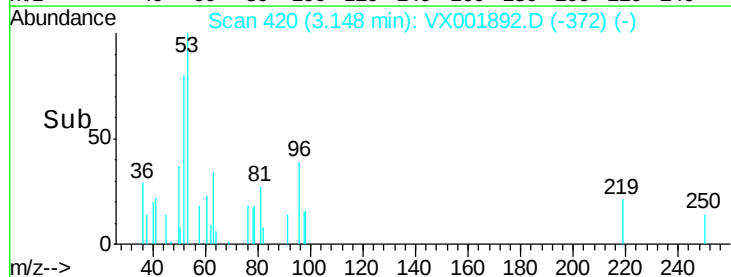
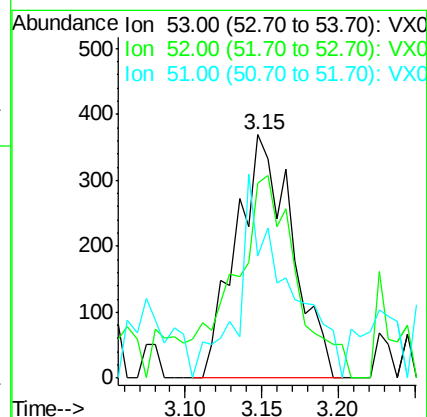
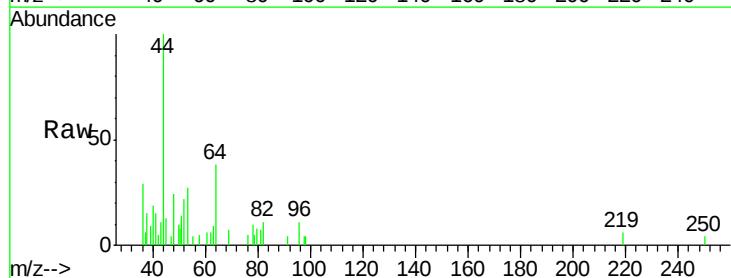
Tgt Ion: 53 Resp: 935

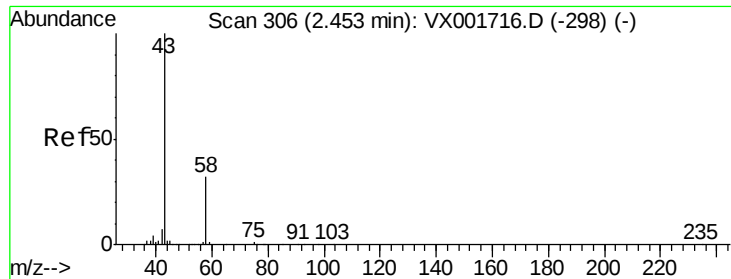
Ion Ratio Lower Upper

53 100

52 93.4 65.6 98.4

51 71.9 28.1 42.1#





#16

Acetone

Concen: 0.68 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

Instrument :

MSVOA_X

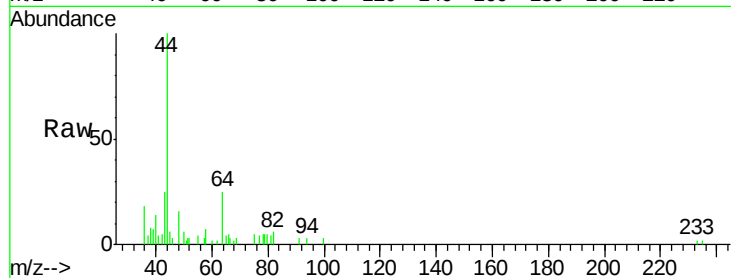
ClientSampleId :

Tot Ion: 43 Resp: 854

Ion Ratio Lower Upper

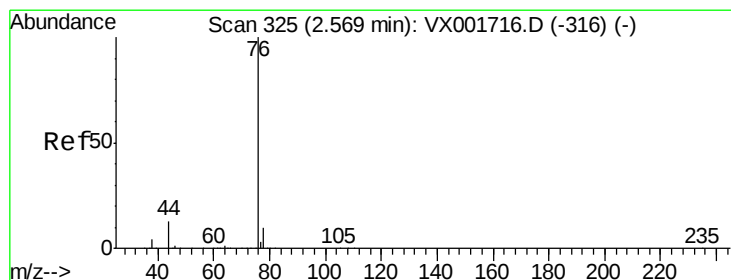
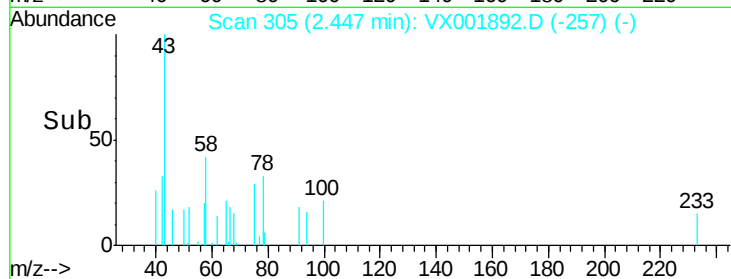
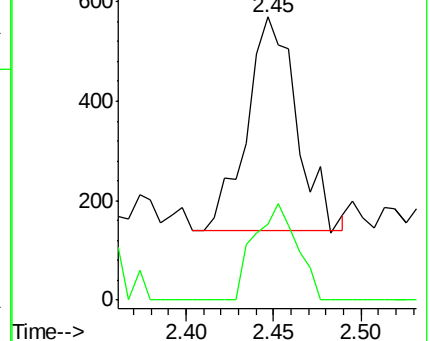
43 100

58 35.8 25.3 37.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.33 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX001892.D

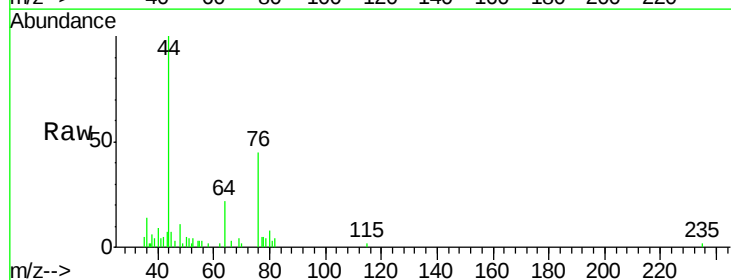
Acq: 22 May 2018 14:35

Tgt Ion: 76 Resp: 2014

Ion Ratio Lower Upper

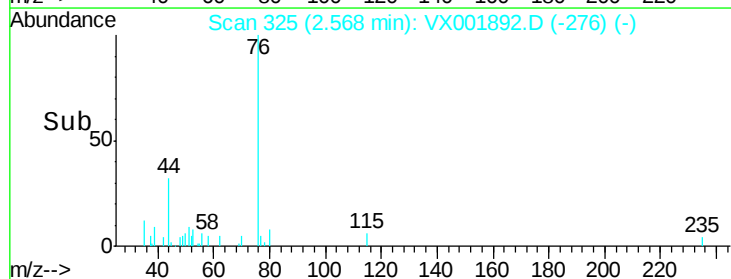
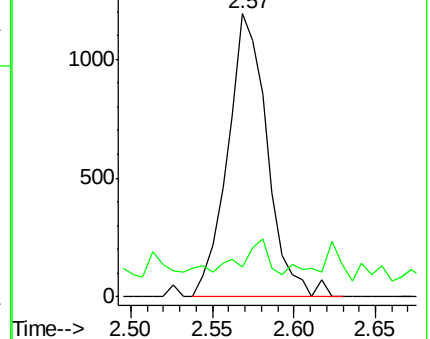
76 100

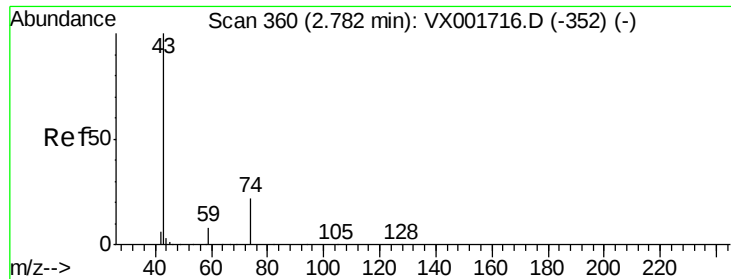
78 0.8 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

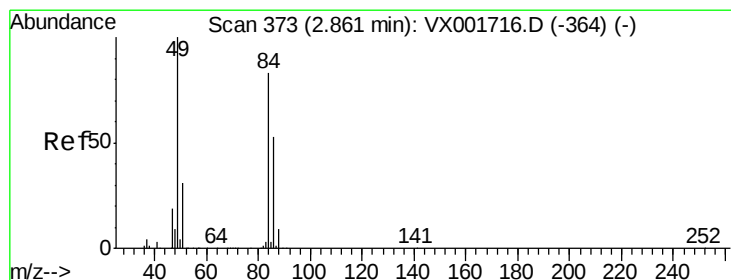
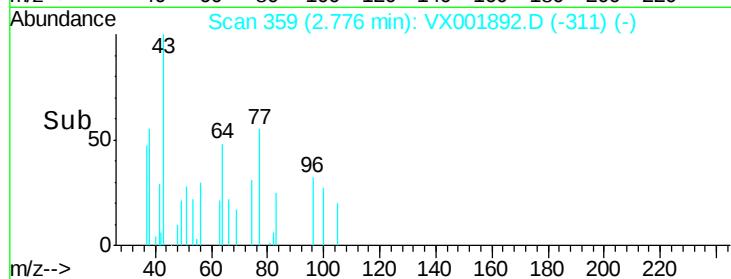
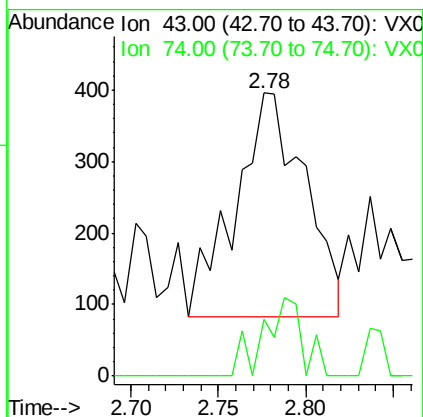
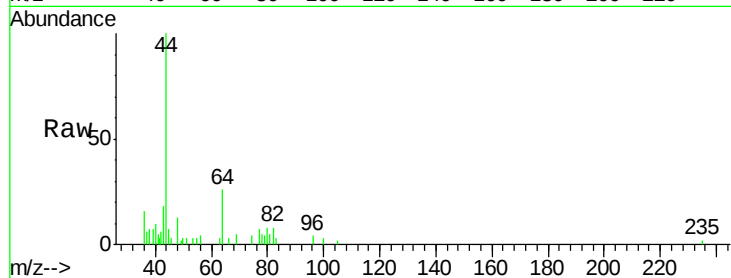




#18
Methvl Acetate
Concen: 0.24 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX001892.D
Acq: 22 May 2018 14:35

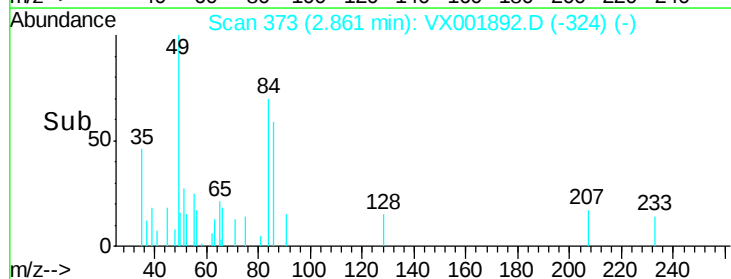
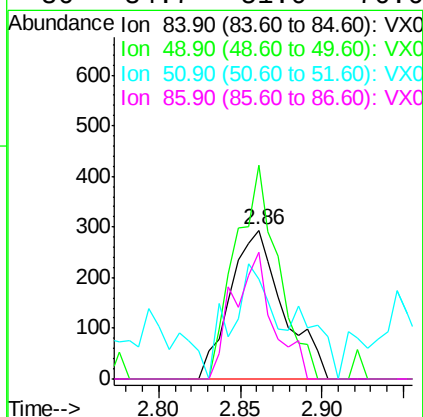
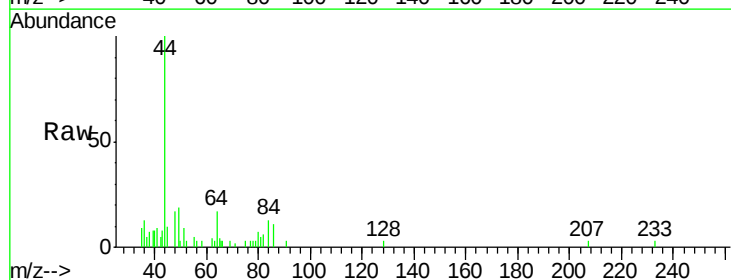
Instrument :
MSVOA_X
ClientSampleId :

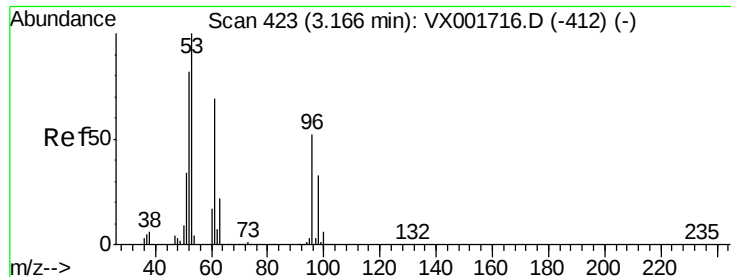
Tot Ion: 43 Resp: 867
Ion Ratio Lower Upper
43 100
74 19.6 18.2 27.2



#20
Methylene Chloride
Concen: 0.25 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX001892.D
Acq: 22 May 2018 14:35

Tgt Ion: 84 Resp: 666
Ion Ratio Lower Upper
84 100
49 143.5 96.3 144.5
51 66.7 29.8 44.6#
86 84.7 51.0 76.6#





#21

trans-1,2-Dichloroethene

Concen: 0.24 ug/l

RT: 3.17 min Scan# 424

Delta R.T. 0.01 min

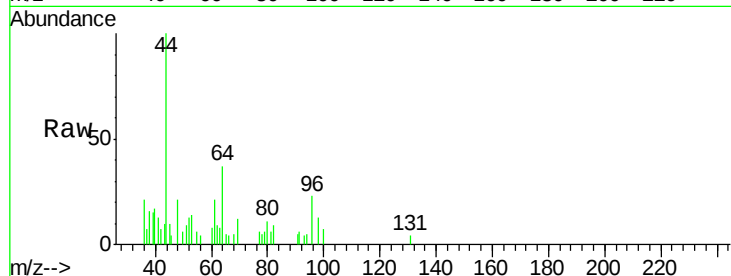
Lab File: VX001892.D

Acq: 22 May 2018 14:35

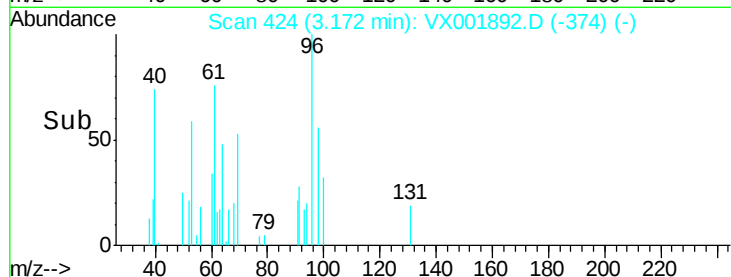
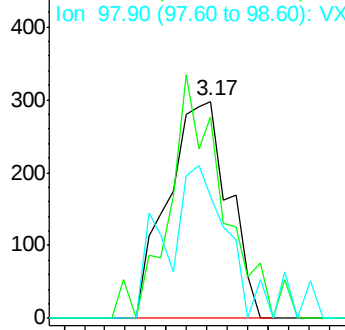
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 96 Resp: 618

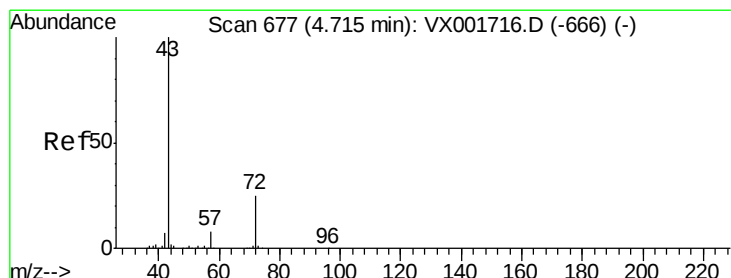
Ion	Ratio	Lower	Upper
96	100		
61	93.0	105.8	158.8#
98	56.4	50.2	75.4



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



Time-->



#25

2-Butanone

Concen: 0.20 ug/l

RT: 4.70 min Scan# 675

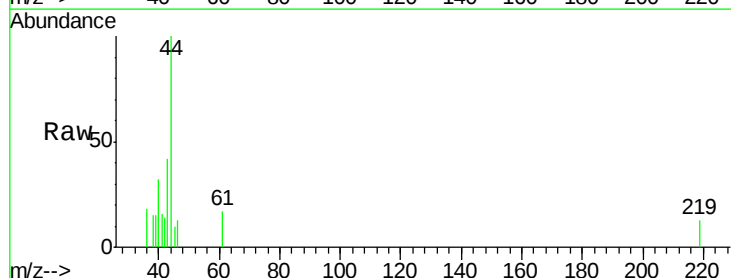
Delta R.T. -0.01 min

Lab File: VX001892.D

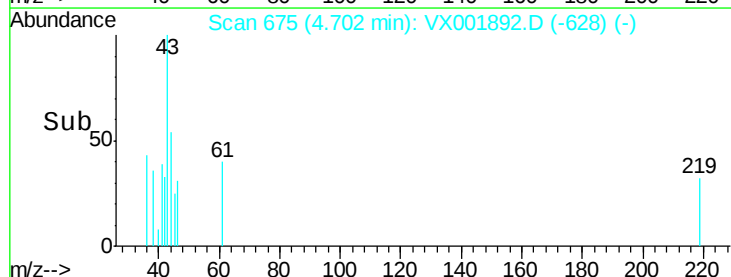
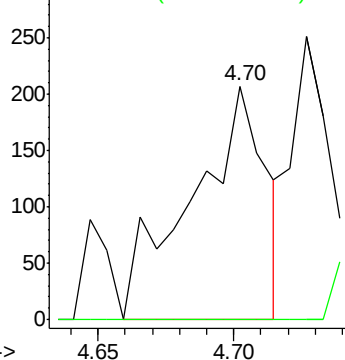
Acq: 22 May 2018 14:35

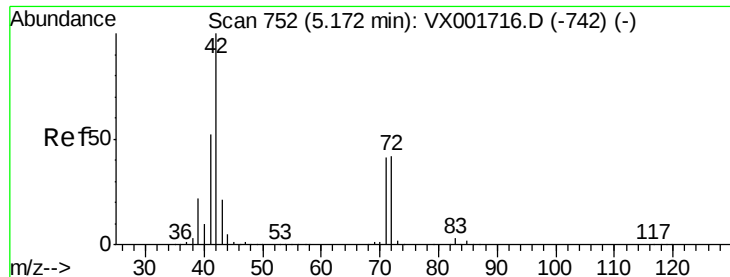
Tgt Ion: 43 Resp: 391

Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.8	29.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

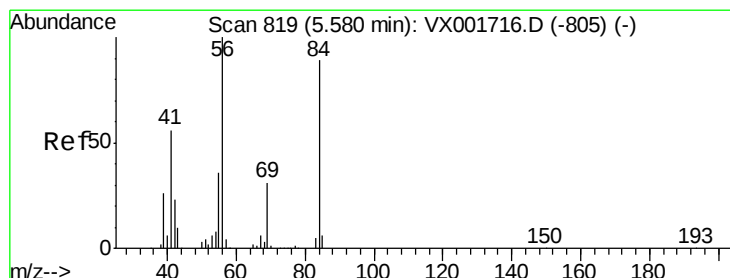
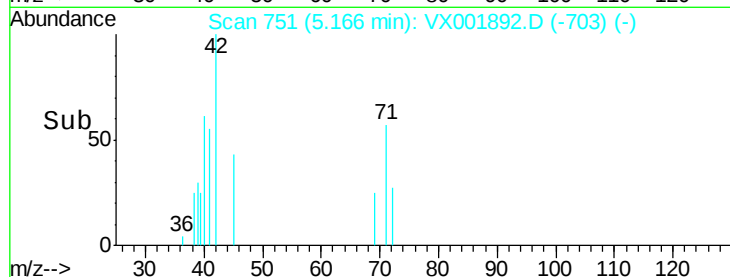
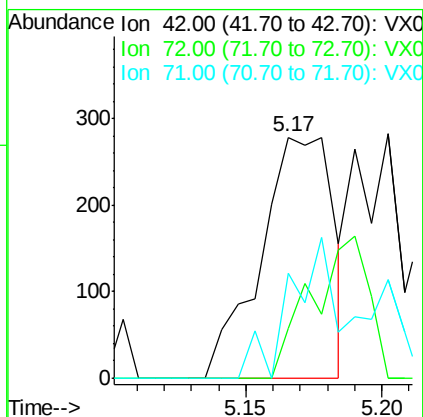
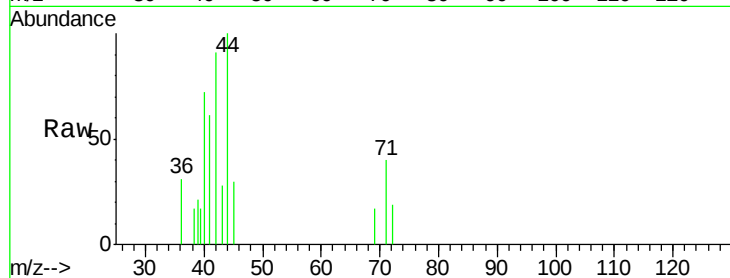




#29
Tetrahydrofuran
Concen: 0.41 ug/l
RT: 5.17 min Scan# 751
Delta R.T. -0.01 min
Lab File: VX001892.D
Acq: 22 May 2018 14:35

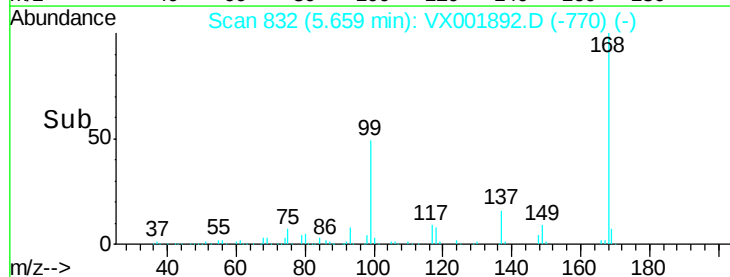
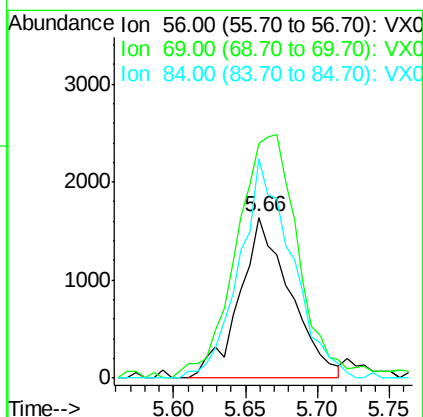
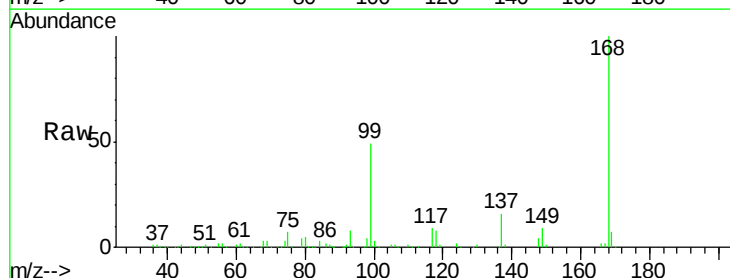
Instrument :
MSVOA_X
ClientSampleId :

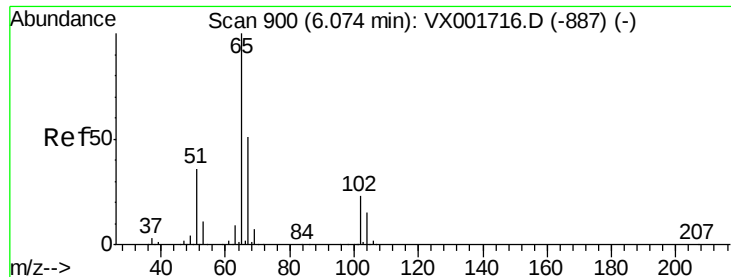
Tot Ion: 42 Resp: 517
Ion Ratio Lower Upper
42 100
72 0.0 35.4 53.2#
71 43.5 33.2 49.8



#31
Cyclohexane
Concen: 1.00 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.08 min
Lab File: VX001892.D
Acq: 22 May 2018 14:35

Tgt Ion: 56 Resp: 4020
Ion Ratio Lower Upper
56 100
69 137.3 25.0 37.6#
84 132.4 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 51.92 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

Instrument :

MSVOA_X

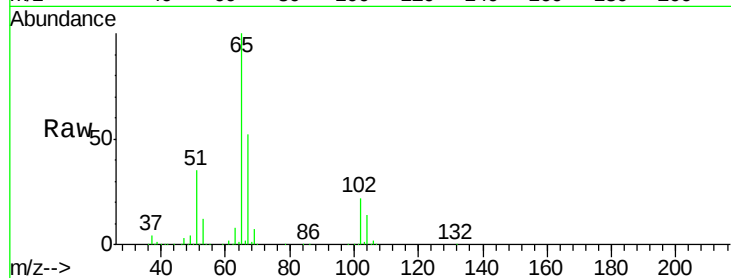
ClientSampleId :

Tot Ion: 65 Resp: 165325

Ion Ratio Lower Upper

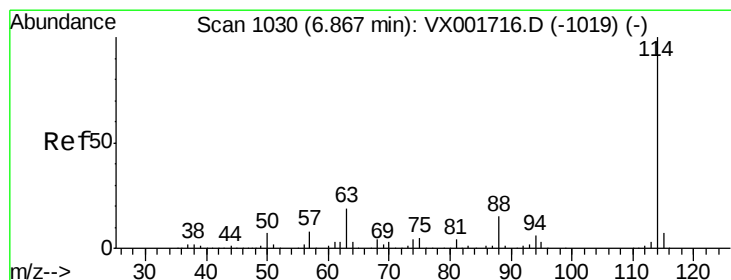
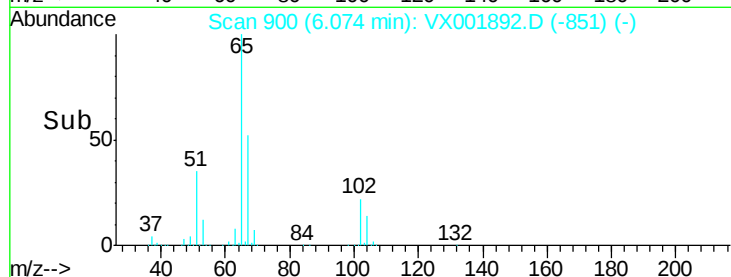
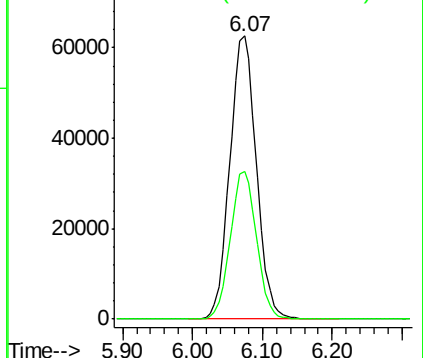
65 100

67 51.5 0.0 102.8



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: VX001892.D

Acq: 22 May 2018 14:35

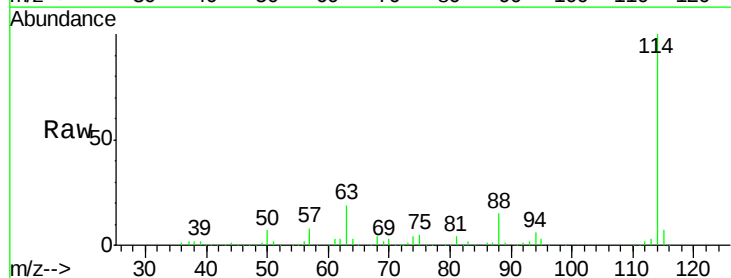
Tgt Ion: 114 Resp: 320574

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.0

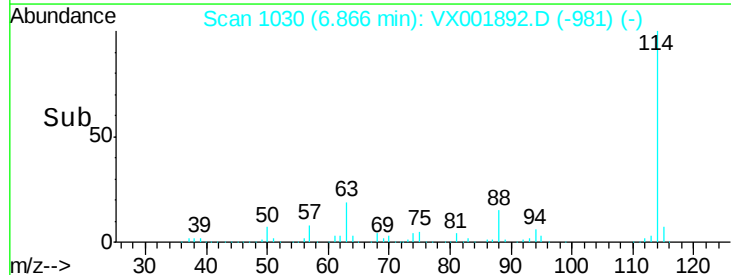
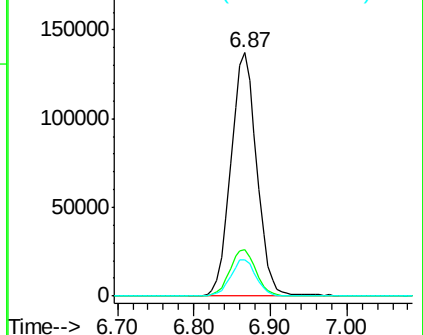
88 15.1 0.0 29.8

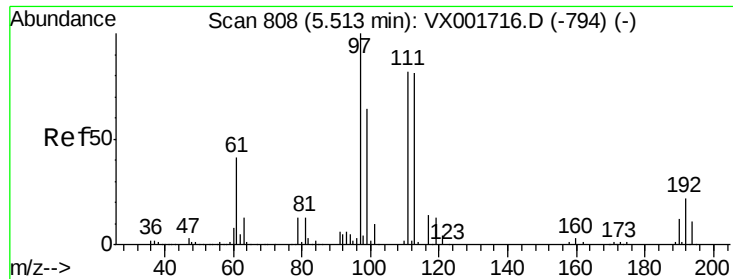


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.49 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

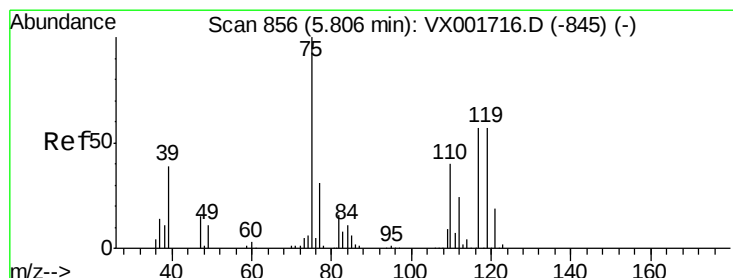
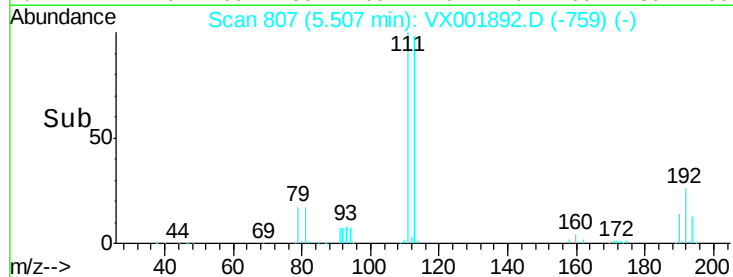
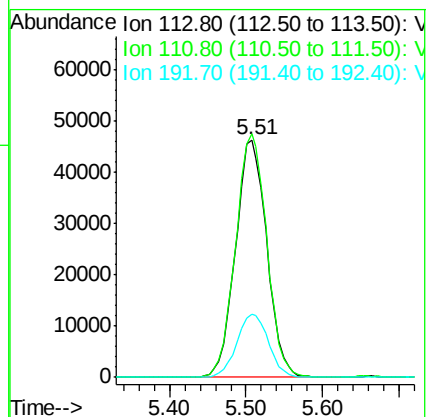
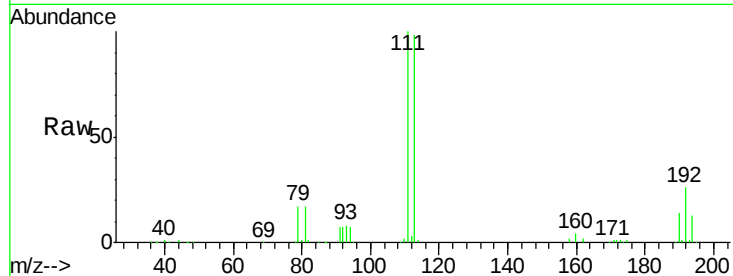
Tot Ion:113 Resp: 131179

Ion Ratio Lower Upper

113 100

111 102.4 82.0 123.0

192 26.9 21.6 32.4



#36

1,1-Dichloropropene

Concen: 3.97 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.15 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

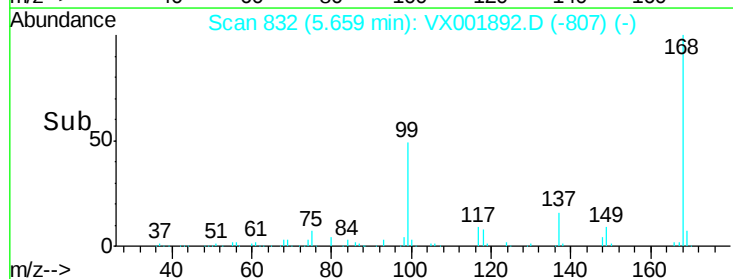
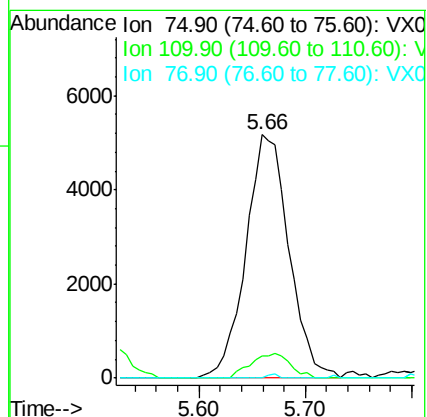
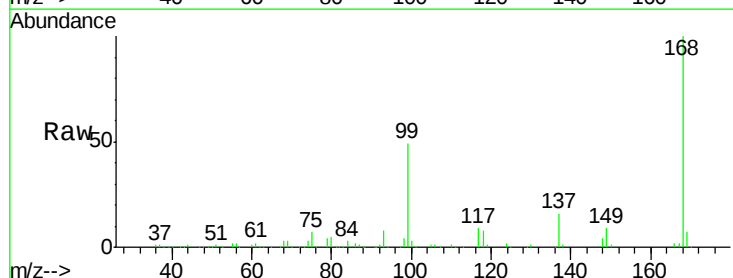
Tgt Ion: 75 Resp: 14659

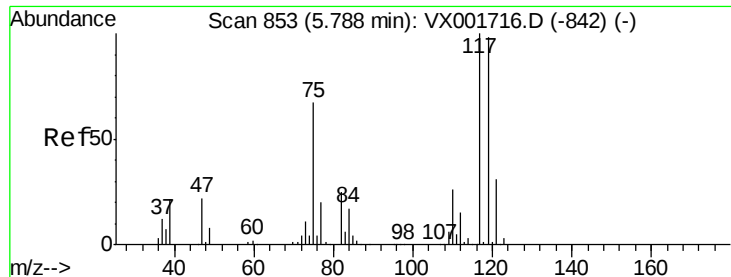
Ion Ratio Lower Upper

75 100

110 9.4 19.1 57.1#

77 0.4 24.6 37.0#

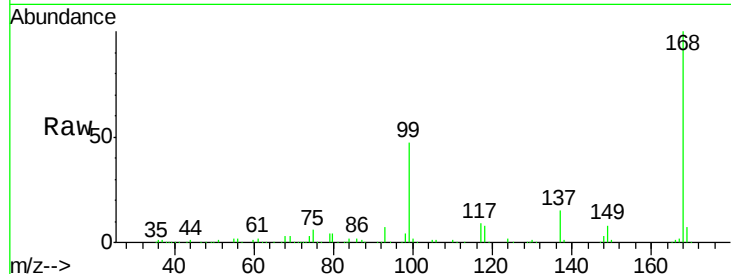




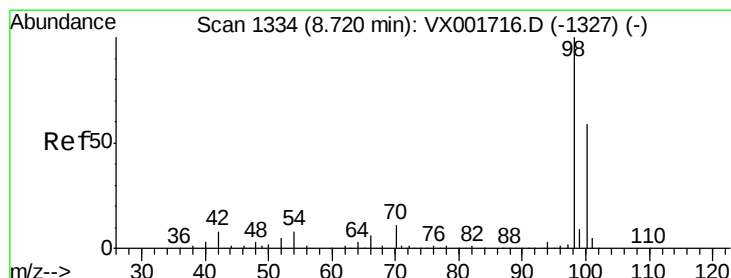
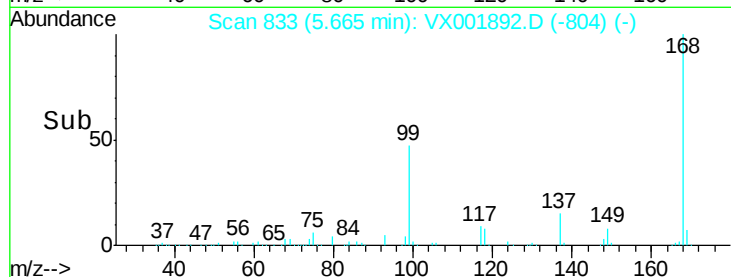
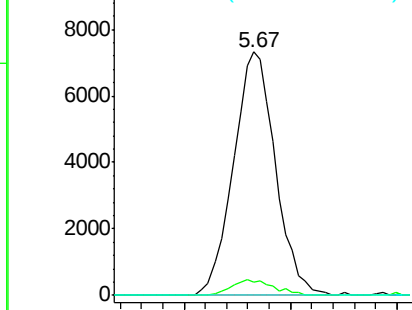
#38
Carbon Tetrachloride
Concen: 5.21 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX001892.D
Acq: 22 May 2018 14:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 20144
Ion Ratio Lower Upper
117 100
119 5.2 77.6 116.4#
121 0.0 24.6 36.8#

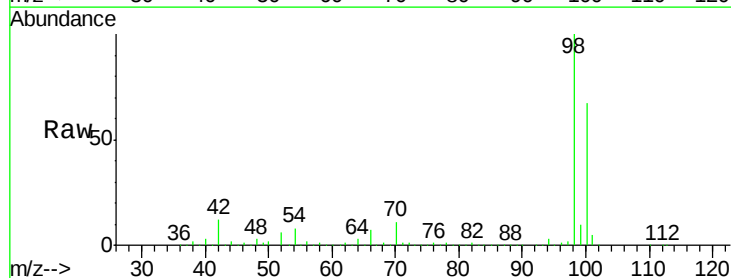


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

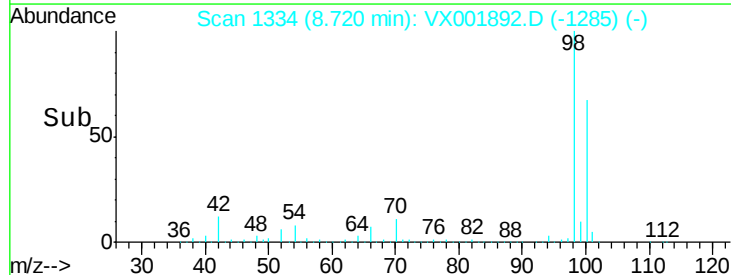
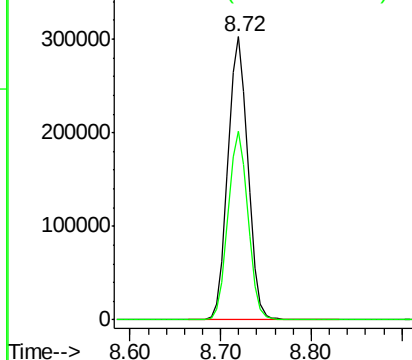


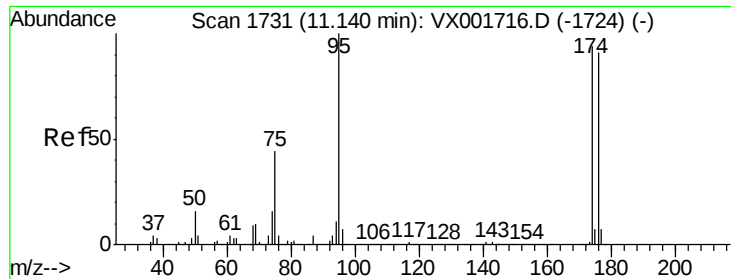
#50
Toluene-d8
Concen: 48.07 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX001892.D
Acq: 22 May 2018 14:35

Tgt Ion: 98 Resp: 465795
Ion Ratio Lower Upper
98 100
100 66.2 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 42.48 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

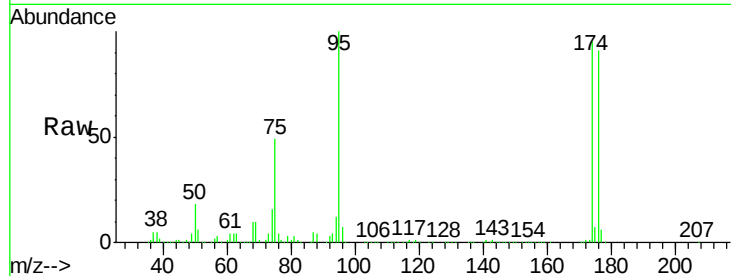
Tot Ion: 95 Resp: 148194

Ion Ratio Lower Upper

95 100

174 102.5 0.0 201.8

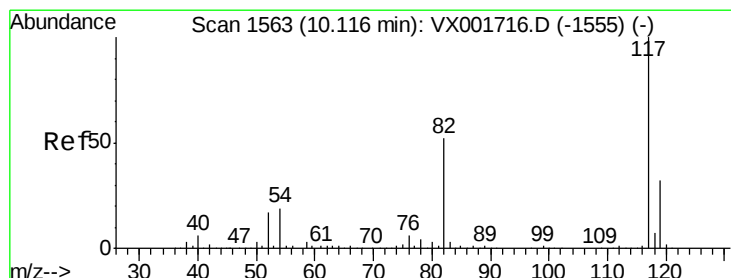
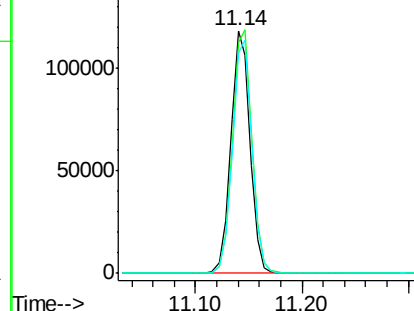
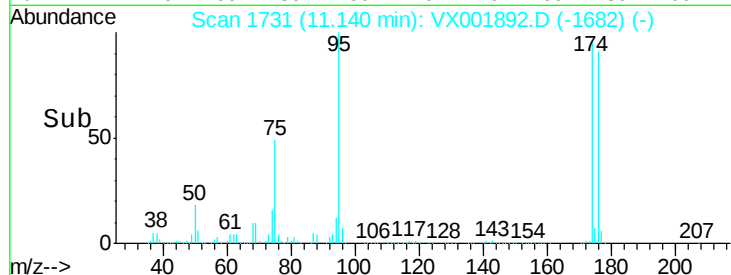
176 98.1 0.0 196.8



Abundance Ion 94.90 (94.60 to 95.60): VX001892.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX001892.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX001892.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

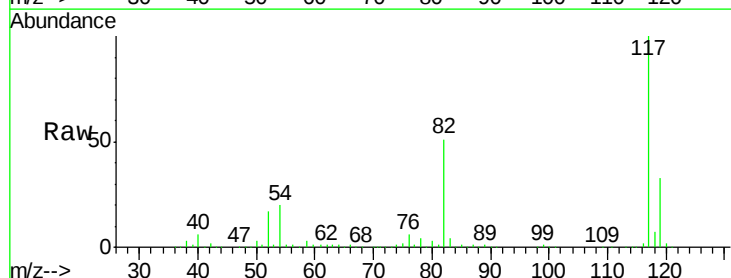
Tgt Ion: 117 Resp: 279944

Ion Ratio Lower Upper

117 100

82 50.6 41.4 62.2

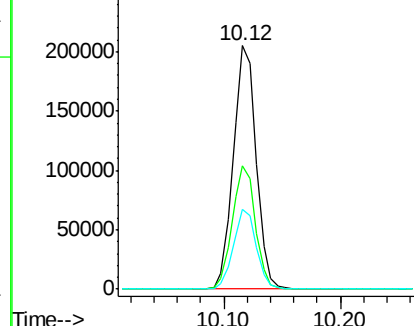
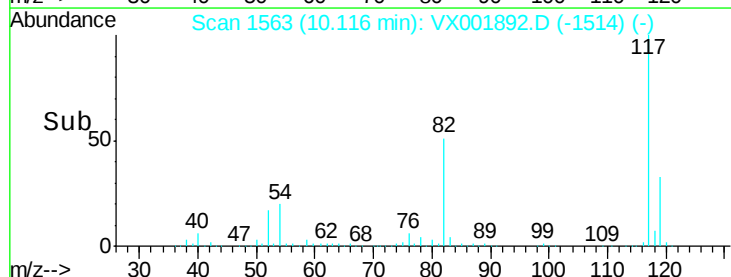
119 32.5 25.6 38.4

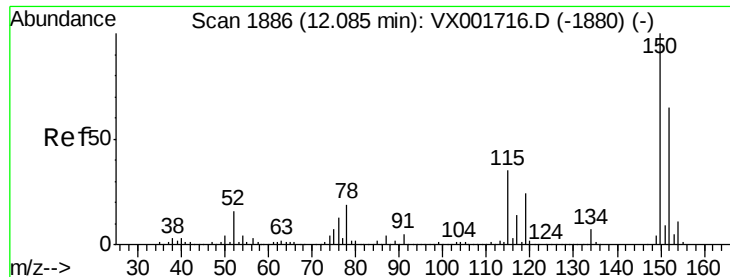


Abundance Ion 116.90 (116.60 to 117.60): VX001892.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX001892.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX001892.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

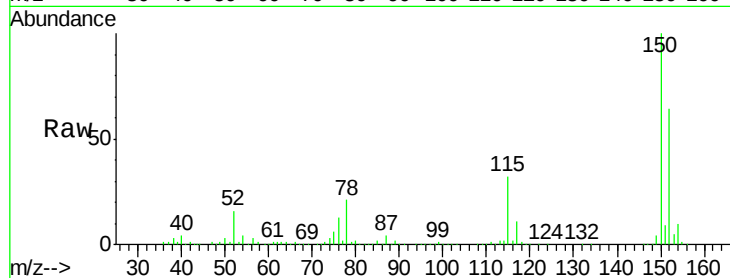
Tot Ion:152 Resp: 153809

Ion Ratio Lower Upper

152 100

115 52.1 37.4 112.2

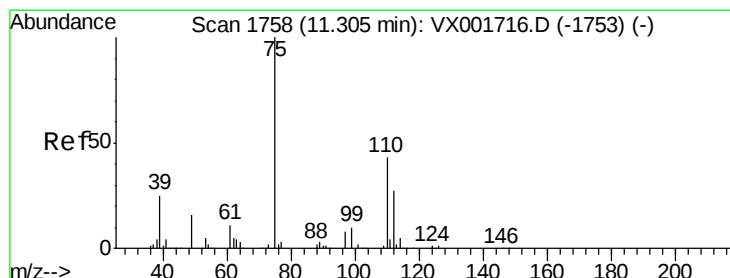
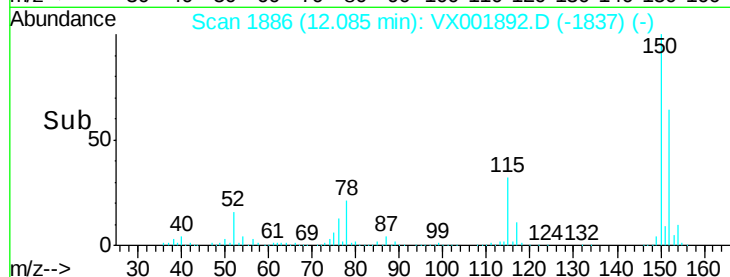
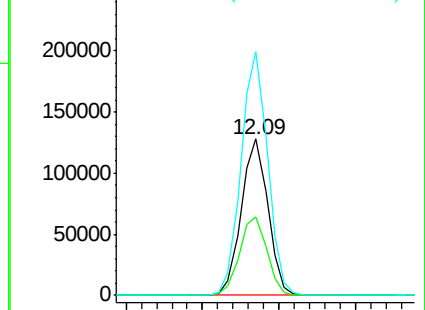
150 155.9 0.0 344.8



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: 24.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001892.D

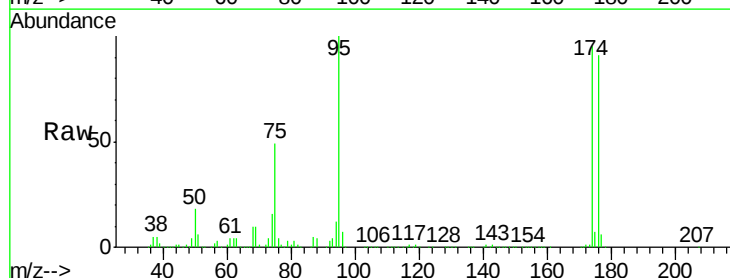
Acq: 22 May 2018 14:35

Tgt Ion: 75 Resp: 71516

Ion Ratio Lower Upper

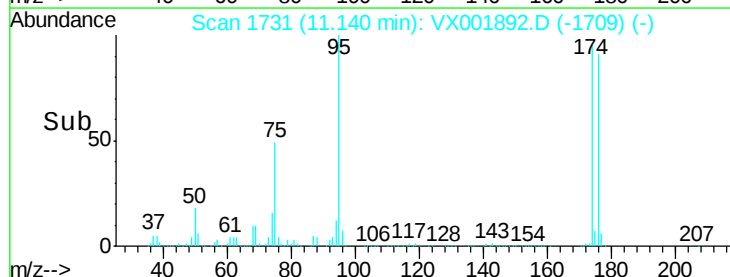
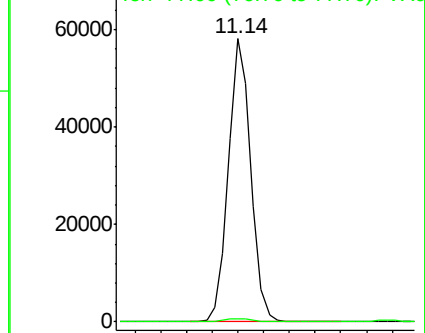
75 100

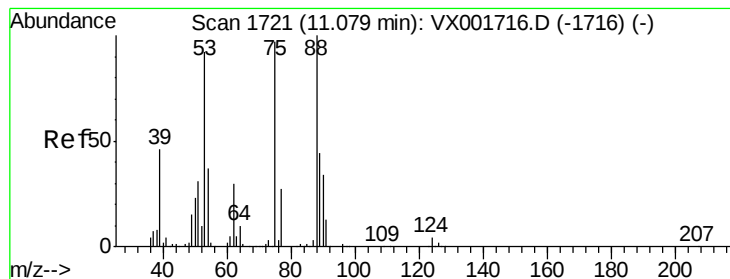
77 1.4 18.9 56.7#



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: 71.36 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

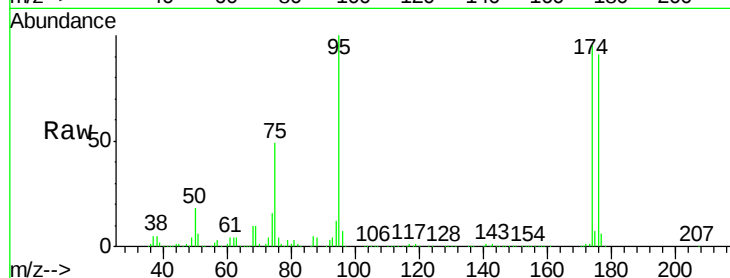
Tot Ion: 75 Resp: 71516

Ion Ratio Lower Upper

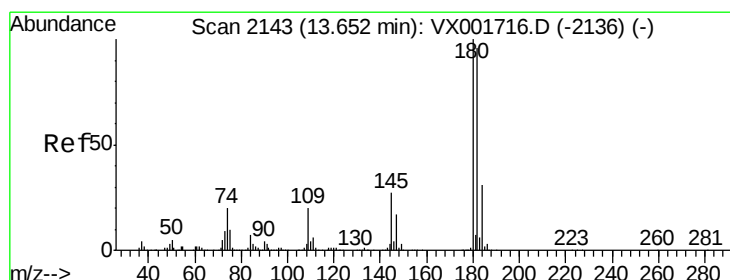
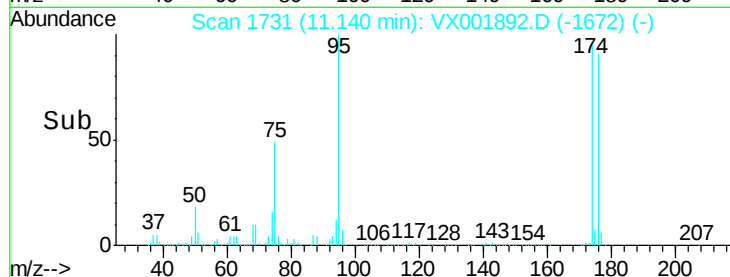
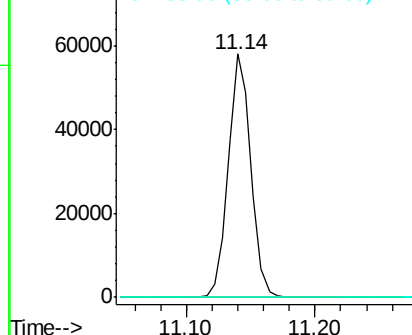
75 100

53 0.1 79.4 119.2#

89 0.0 38.8 58.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.20 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

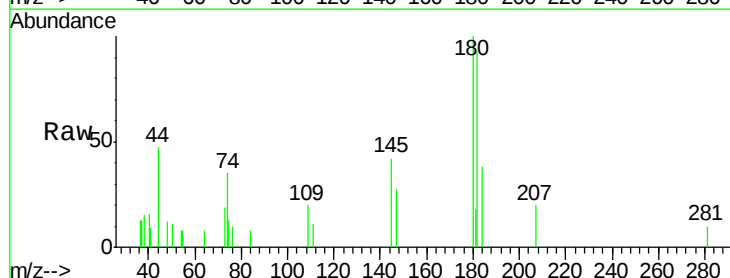
Tgt Ion:180 Resp: 896

Ion Ratio Lower Upper

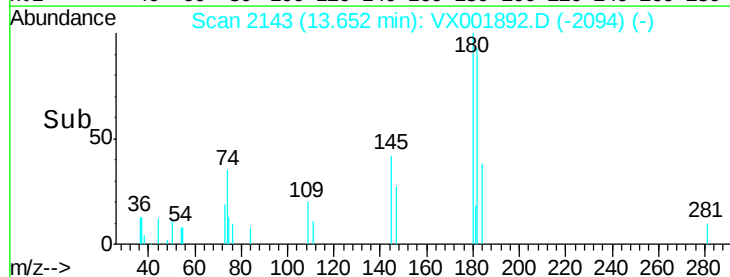
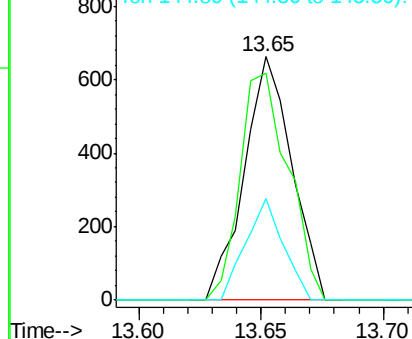
180 100

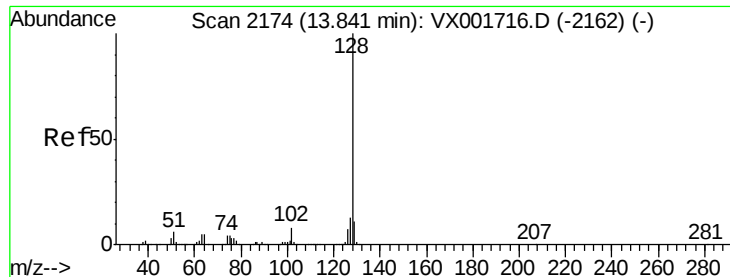
182 94.2 47.6 142.9

145 32.8 13.4 40.1



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.21 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

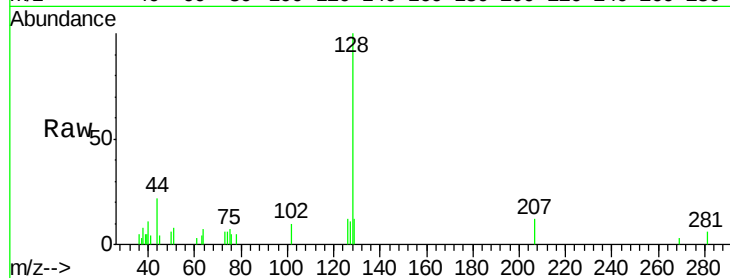
Tot Ion:128 Resp: 2406

Ion Ratio Lower Upper

128 100

127 11.9 10.2 15.4

129 12.0 8.9 13.3



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

13.84

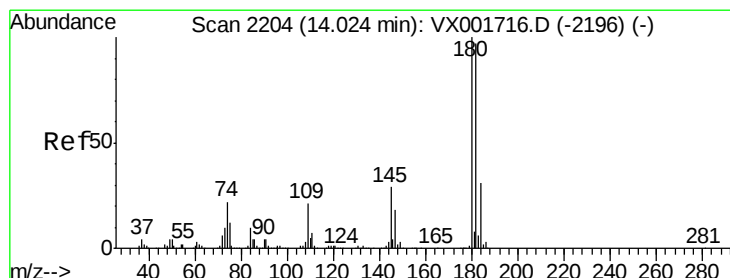
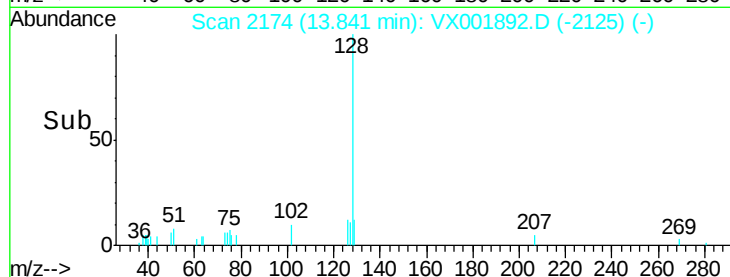
1500

1000

500

0

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 0.20 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. -0.00 min

Lab File: VX001892.D

Acq: 22 May 2018 14:35

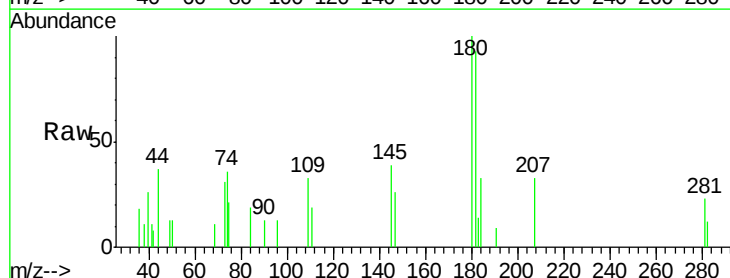
Tgt Ion:180 Resp: 902

Ion Ratio Lower Upper

180 100

182 87.3 47.9 143.7

145 26.1 14.2 42.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

14.02

800

600

400

200

0

Time-->

