

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102020\
 Data File : VX018992.D
 Acq On : 20 Oct 2020 22:38
 Operator : JC/SP
 Sample : L4435-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 5412

Quant Time: Oct 21 03:28:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102020W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 20 19:16:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	164645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	307983	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	298679	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	147322	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	114116	52.73	ug/l	0.00
Spiked Amount			Recovery	=	105.46%	
35) Dibromofluoromethane	5.46	113	94360	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
50) Toluene-d8	8.70	98	397932	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
62) 4-Bromofluorobenzene	11.12	95	144753	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	

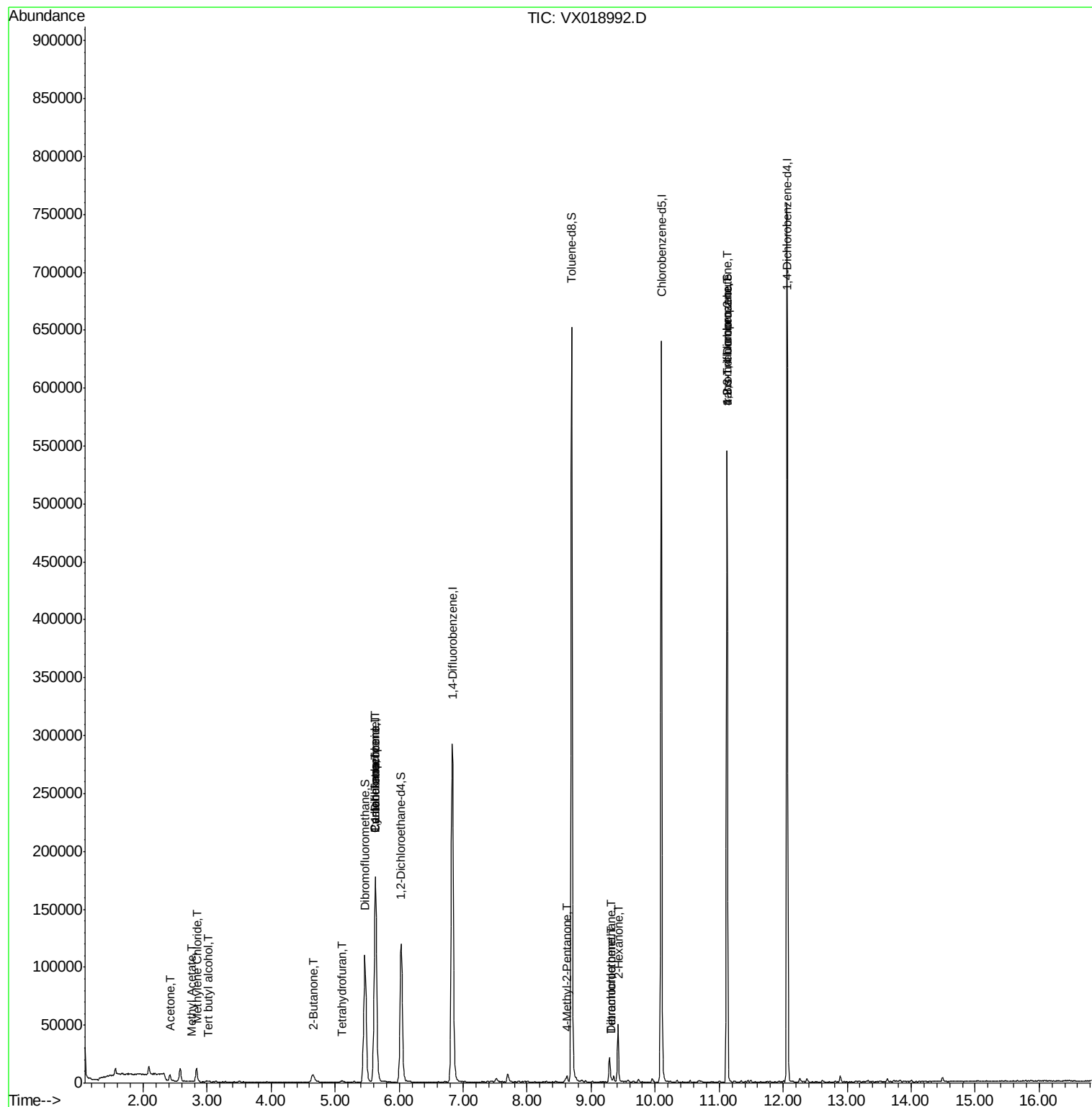
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	2.37	101	81	Below Cal	#	72
11) Tert butyl alcohol	3.02	59	811	1.634	ug/l #	79
12) 1,1-Dichloroethene	2.35	96	112	Below Cal	#	47
13) Acrolein	2.29	56	119	Below Cal		99
16) Acetone	2.42	43	5524	7.330	ug/l	96
18) Methyl Acetate	2.75	43	505	0.277	ug/l	91
20) Methylene Chloride	2.83	84	5686	2.920	ug/l	94
25) 2-Butanone	4.65	43	2708	2.225	ug/l	89
29) Tetrahydrofuran	5.11	42	1023	1.426	ug/l #	73
31) Cyclohexane	5.63	56	3829	1.513	ug/l #	15
36) 1,1-Dichloropropene	5.63	75	13922	4.837	ug/l #	48
38) Carbon Tetrachloride	5.63	117	17331	5.983	ug/l #	14
51) 4-Methyl-2-Pentanone	8.62	43	3350	1.294	ug/l	92
59) 2-Hexanone	9.42	43	30368	15.105	ug/l #	17
60) Dibromochloromethane	9.32	129	517	0.205	ug/l #	11
64) Tetrachloroethene	9.32	164	491	0.233	ug/l #	78
76) 1,2,3-Trichloropropane	11.12	75	74030	24.449	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	74030	64.492	ug/l #	16

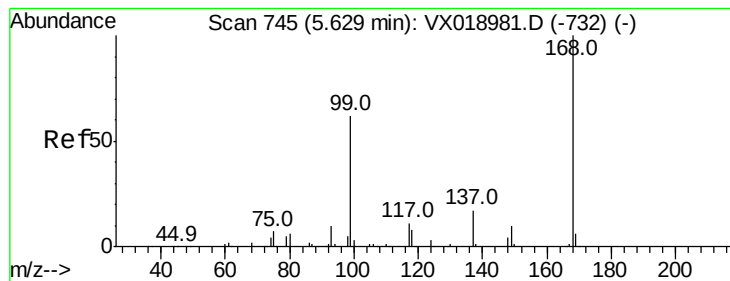
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

Instrument :

MSVOA_X

ClientSampleId :

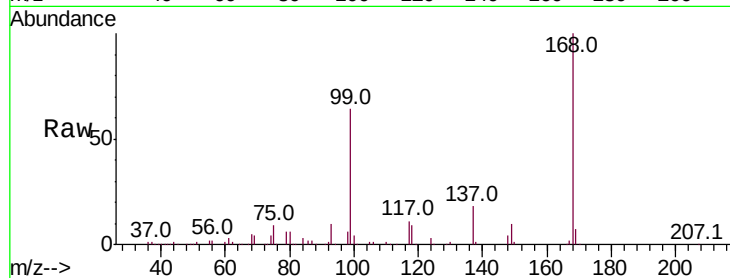
5412

Tot Ion:168 Resp: 164645

Ion Ratio Lower Upper

168 100

99 64.2 49.7 74.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

60000

50000

40000

30000

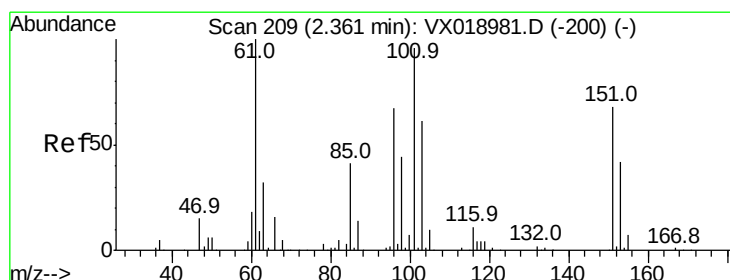
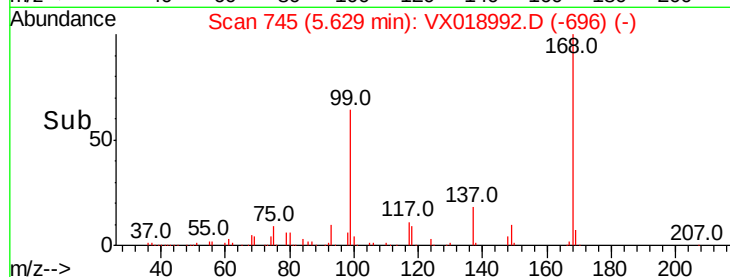
20000

10000

0

Time-->

5.50 5.60 5.70



#9

1,1,2-Trichlorotrifluoroethane

Concen: Below Cal

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

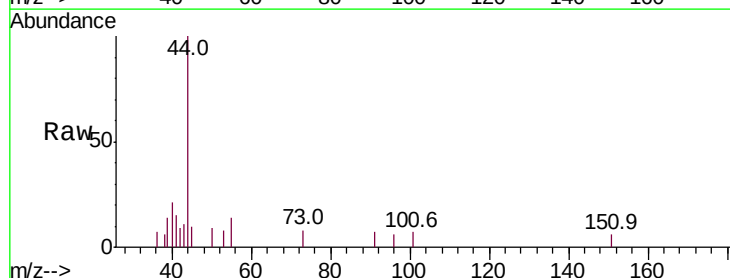
Tgt Ion:101 Resp: 81

Ion Ratio Lower Upper

101 100

85 0.0 34.9 52.3#

151 72.8 56.1 84.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

100

80

60

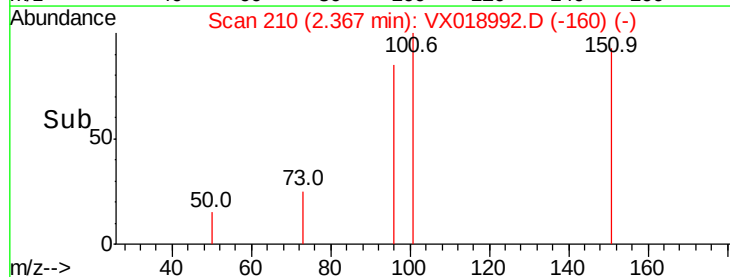
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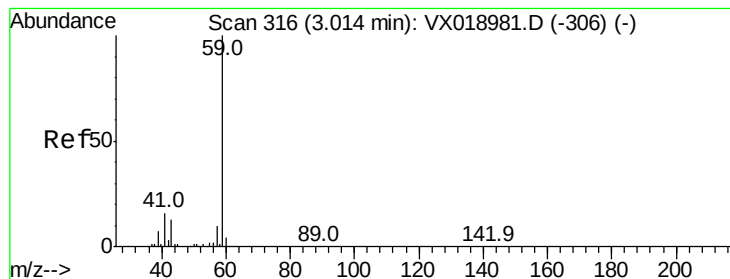
20

0

Time-->

2.34 2.36 2.38 2.40



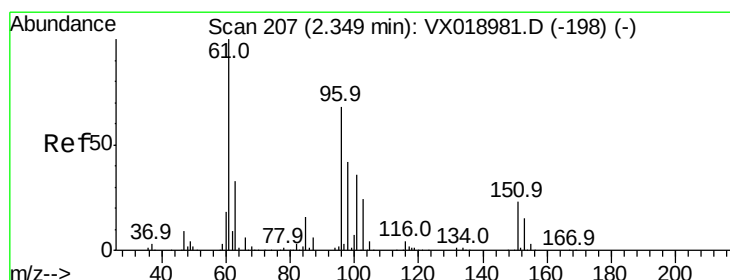
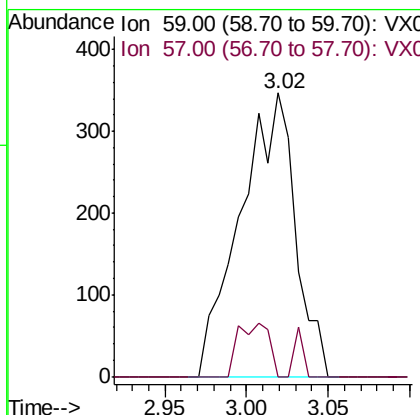
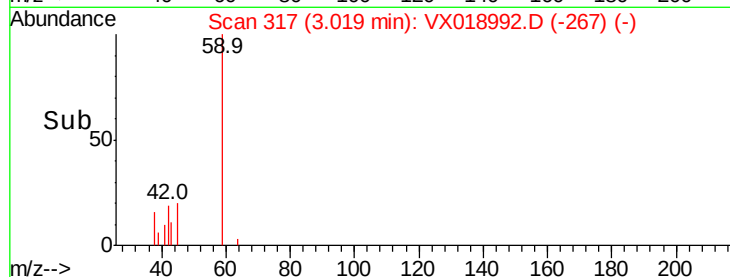
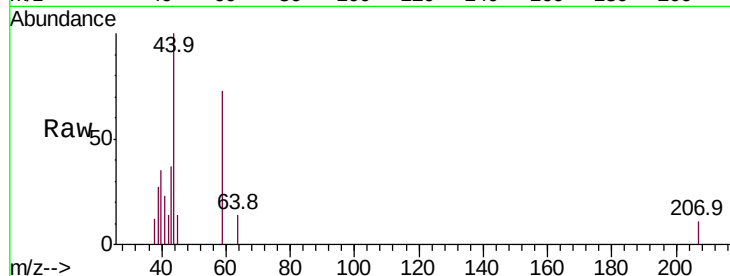


#11

Tert butyl alcohol
Concen: 1.634 ug/l
RT: 3.02 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX018992.D
Acq: 20 Oct 2020 22:38

Instrument :
MSVOA_X
ClientSampleId :
5412

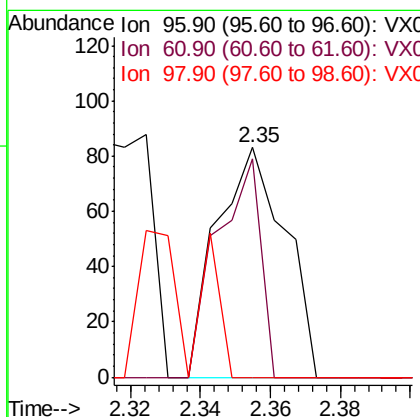
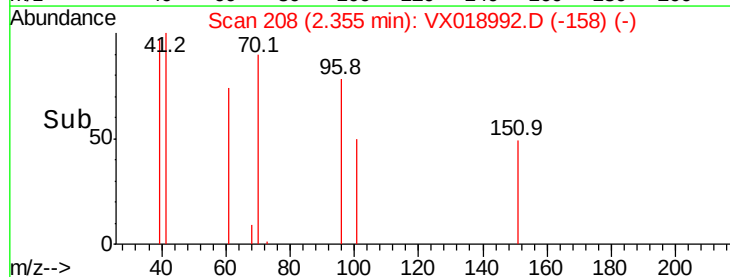
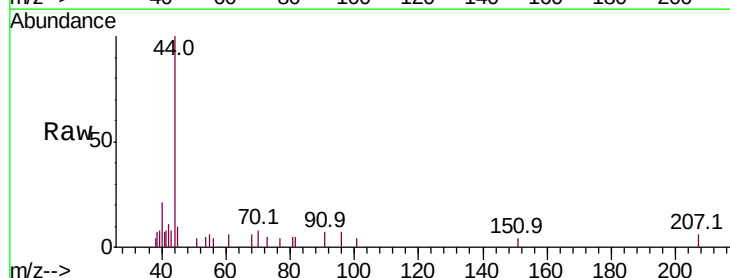
Tot Ion: 59 Resp: 811
Ion Ratio Lower Upper
59 100
57 2.7 8.3 12.5#

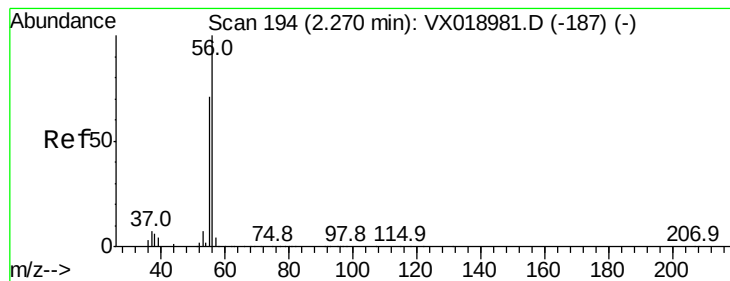


#12

1,1-Dichloroethene
Concen: Below Cal
RT: 2.35 min Scan# 208
Delta R.T. 0.01 min
Lab File: VX018992.D
Acq: 20 Oct 2020 22:38

Tgt Ion: 96 Resp: 112
Ion Ratio Lower Upper
96 100
61 95.2 117.4 176.0#
98 0.0 48.9 73.3#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 197

Delta R.T. 0.02 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

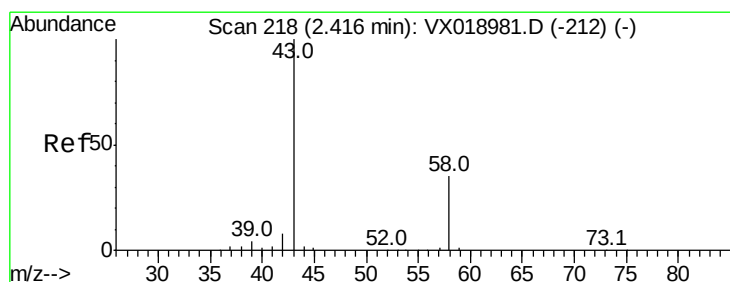
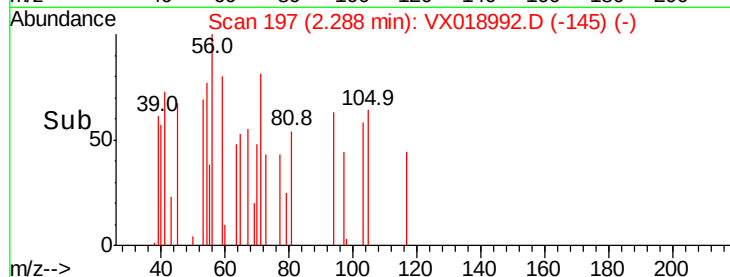
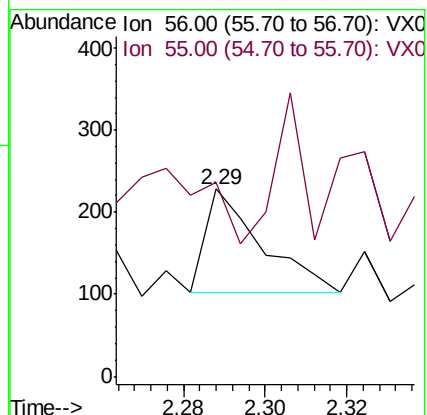
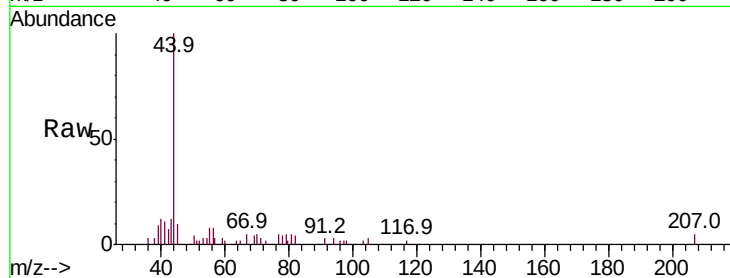
Instrument :
MSVOA_X
ClientSampled :
5412

Tot Ion: 56 Resp: 119

Ion Ratio Lower Upper

56 100

55 69.7 55.4 83.2



#16

Acetone

Concen: 7.330 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX018992.D

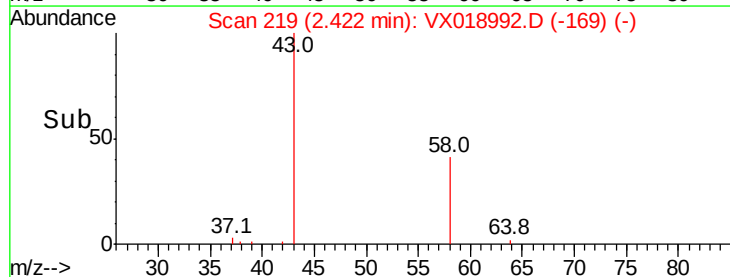
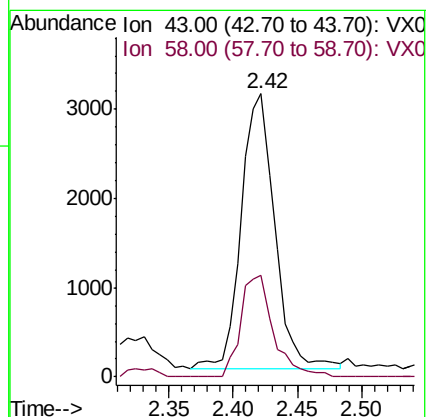
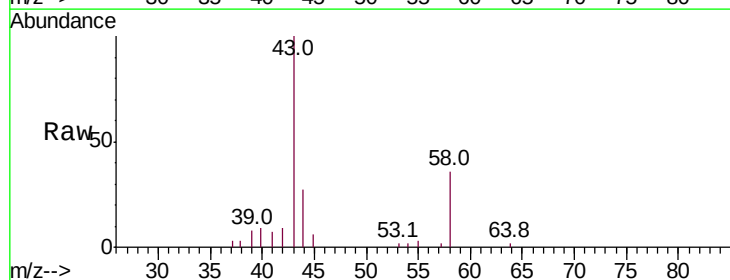
Acq: 20 Oct 2020 22:38

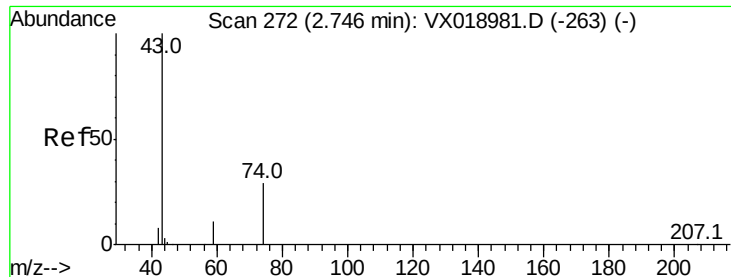
Tgt Ion: 43 Resp: 5524

Ion Ratio Lower Upper

43 100

58 37.1 27.9 41.9

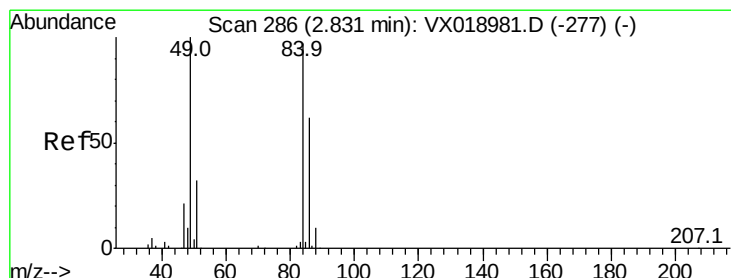
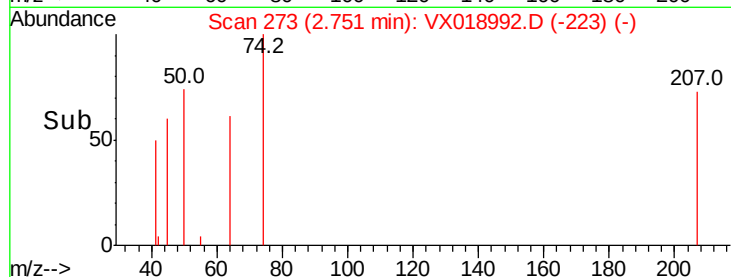
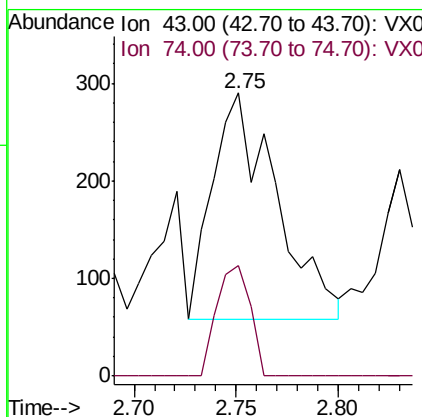
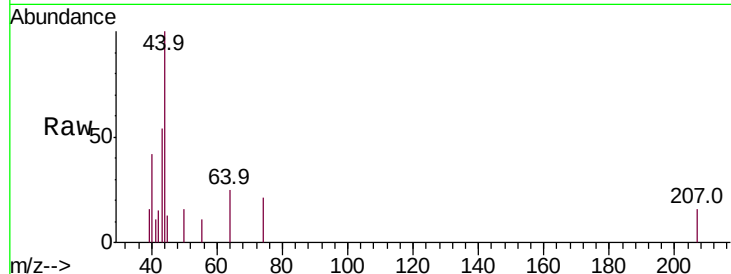




#18
Methyl Acetate
Concen: 0.277 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX018992.D
Acq: 20 Oct 2020 22:38

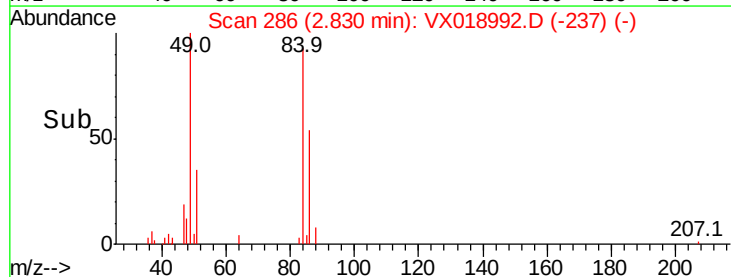
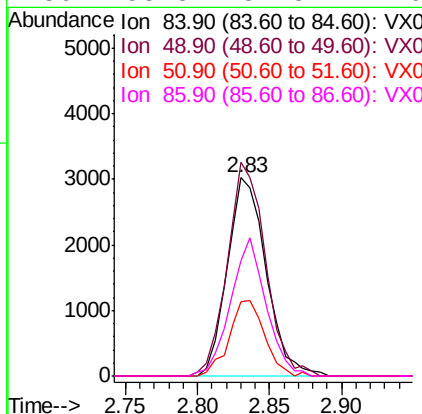
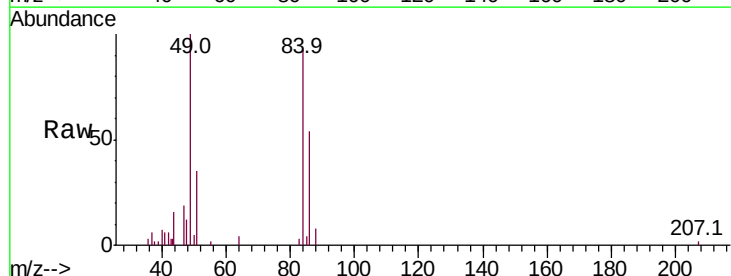
Instrument :
MSVOA_X
ClientSampled :
5412

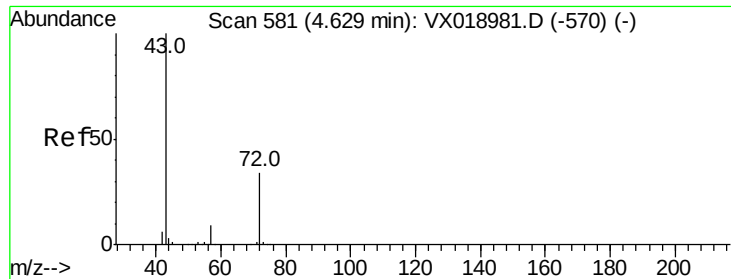
Tot Ion: 43 Resp: 505
Ion Ratio Lower Upper
43 100
74 25.3 24.1 36.1



#20
Methylene Chloride
Concen: 2.920 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX018992.D
Acq: 20 Oct 2020 22:38

Tgt Ion: 84 Resp: 5686
Ion Ratio Lower Upper
84 100
49 108.0 82.9 124.3
51 37.6 26.4 39.6
86 58.3 51.8 77.6





#25

2-Butanone

Concen: 2.225 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

Instrument :

MSVOA_X

ClientSampled :

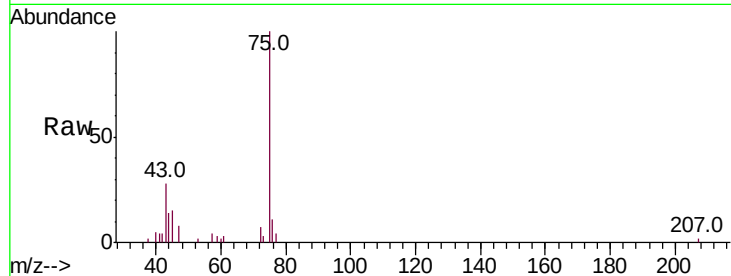
5412

Tot Ion: 43 Resp: 2708

Ion Ratio Lower Upper

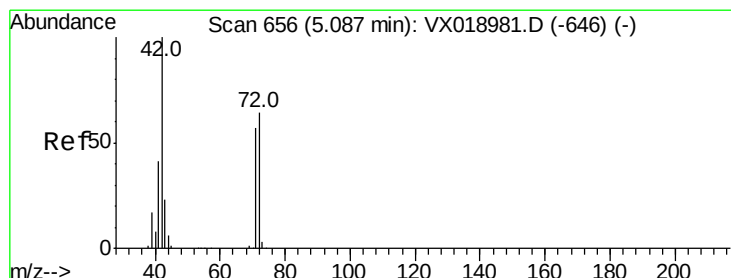
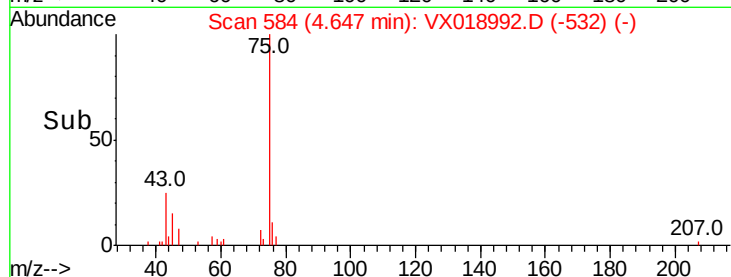
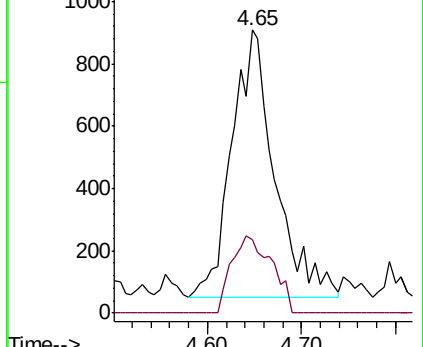
43 100

72 27.7 27.3 40.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.426 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

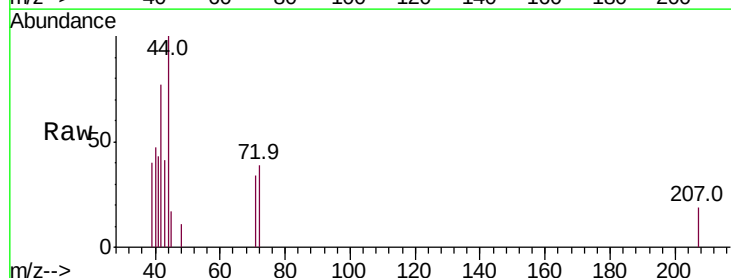
Tgt Ion: 42 Resp: 1023

Ion Ratio Lower Upper

42 100

72 45.5 49.2 73.8#

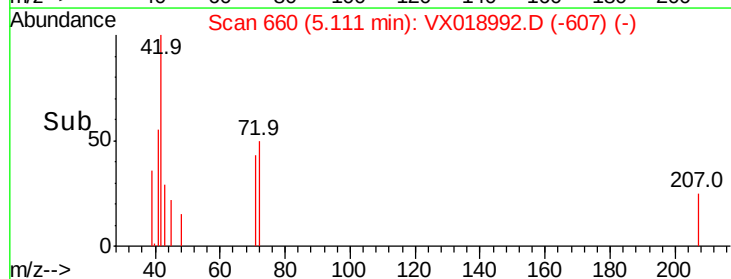
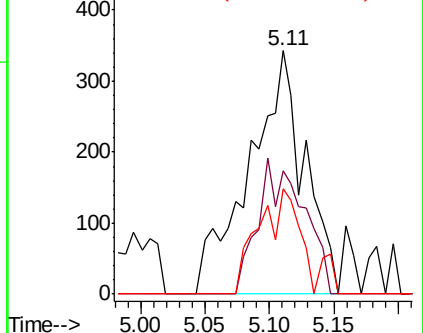
71 31.9 45.3 67.9#

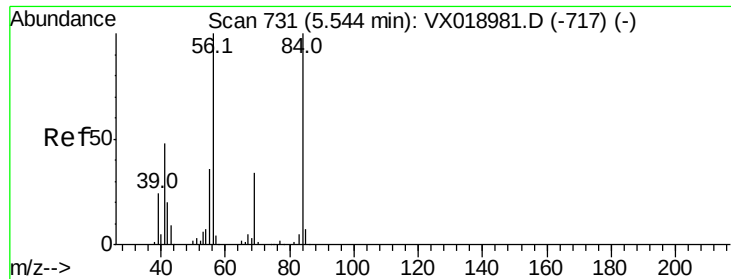


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

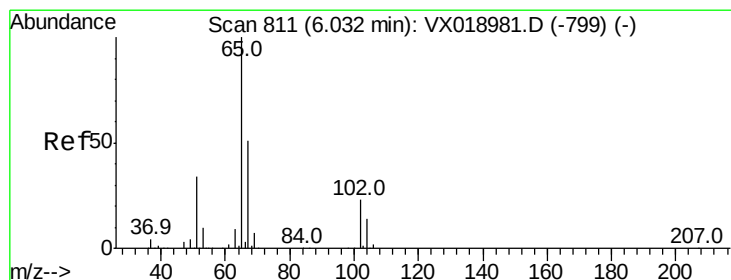
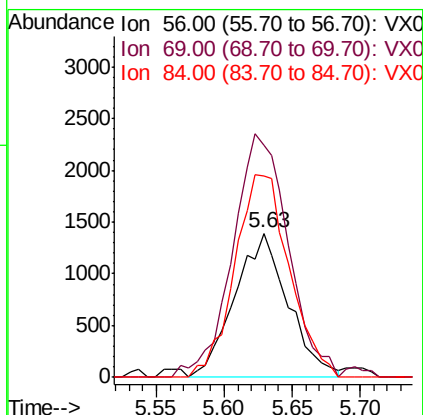
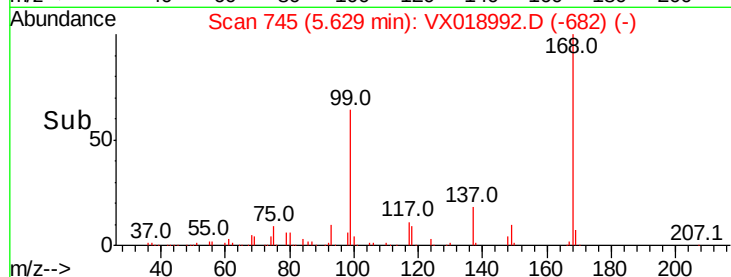
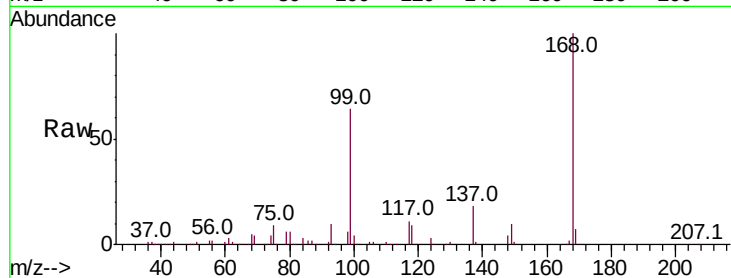




#31
Cyclohexane
Concen: 1.513 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX018992.D
Acq: 20 Oct 2020 22:38

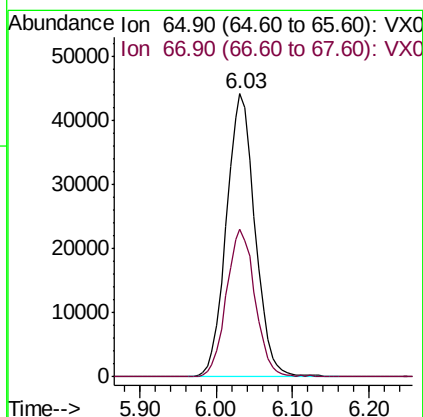
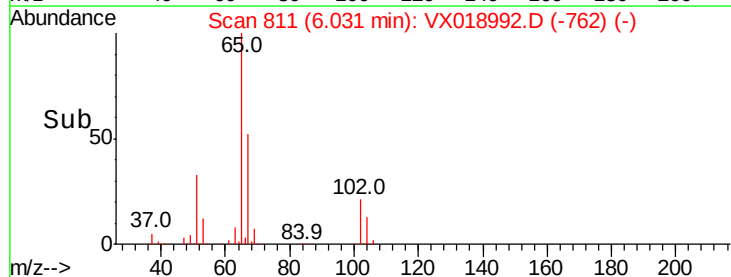
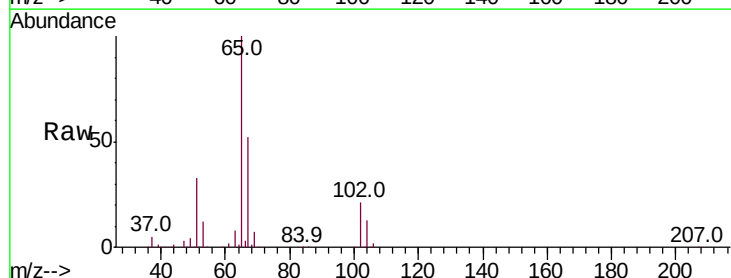
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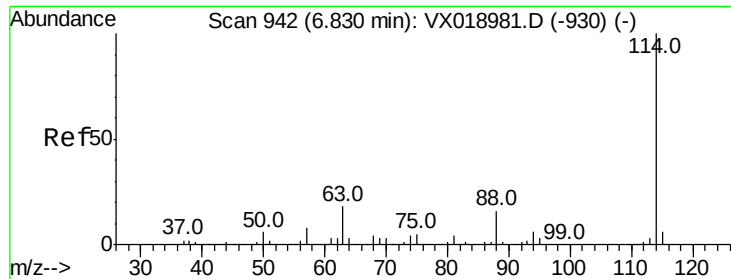
Tot Ion: 56 Resp: 3829
Ion Ratio Lower Upper
56 100
69 160.5 27.1 40.7#
84 139.2 80.4 120.6#



#33
1,2-Dichloroethane-d4
Concen: 52.728 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX018992.D
Acq: 20 Oct 2020 22:38

Tgt Ion: 65 Resp: 114116
Ion Ratio Lower Upper
65 100
67 52.0 0.0 105.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

Instrument :

MSVOA_X

ClientSampleId :

5412

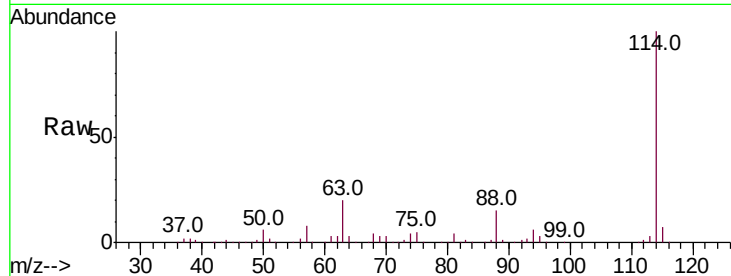
Tot Ion:114 Resp: 307983

Ion Ratio Lower Upper

114 100

63 19.7 0.0 36.8

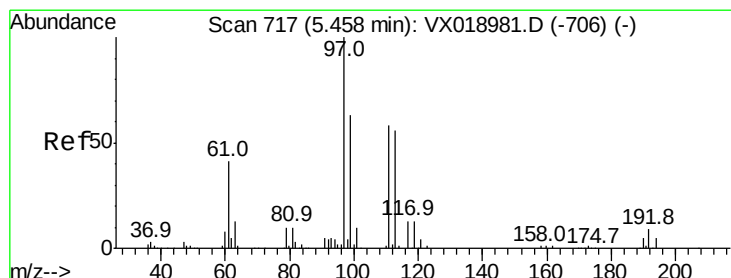
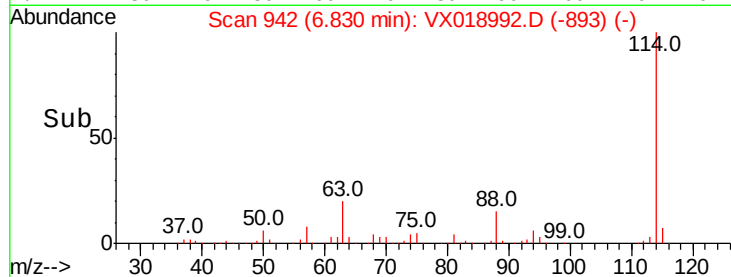
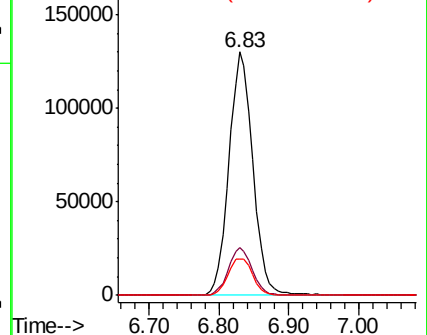
88 15.0 0.0 31.8



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: 48.477 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

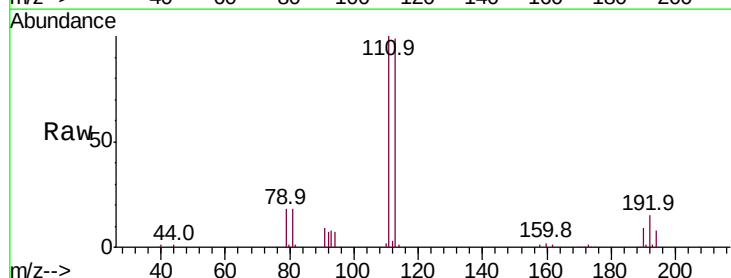
Tgt Ion:113 Resp: 94360

Ion Ratio Lower Upper

113 100

111 102.8 84.1 126.1

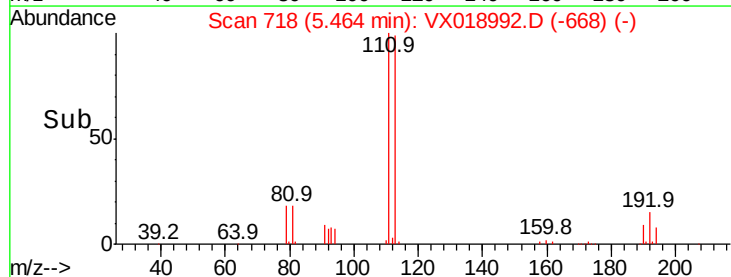
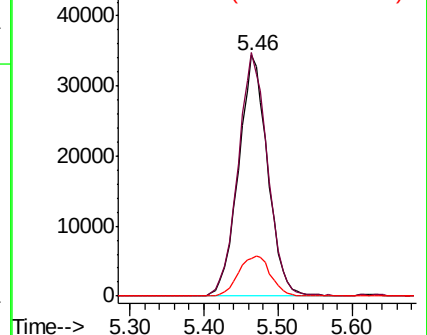
192 18.4 14.7 22.1

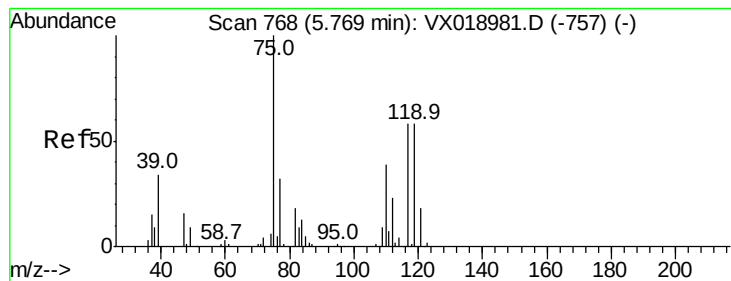


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.837 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

Instrument :

MSVOA_X

ClientSampleId :

5412

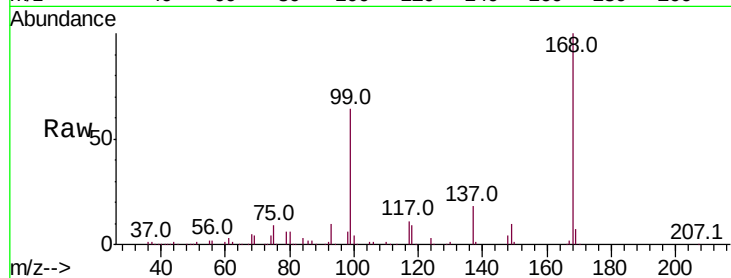
Tot Ion: 75 Resp: 13922

Ion Ratio Lower Upper

75 100

110 8.9 18.6 55.6#

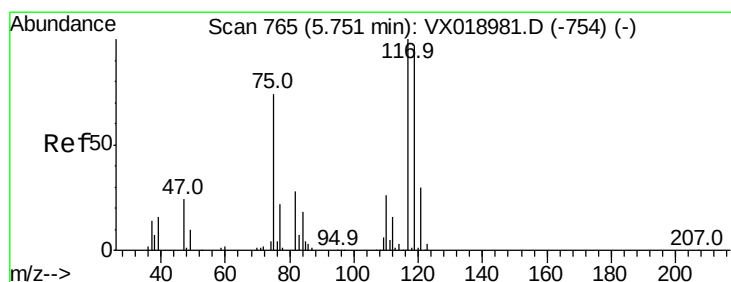
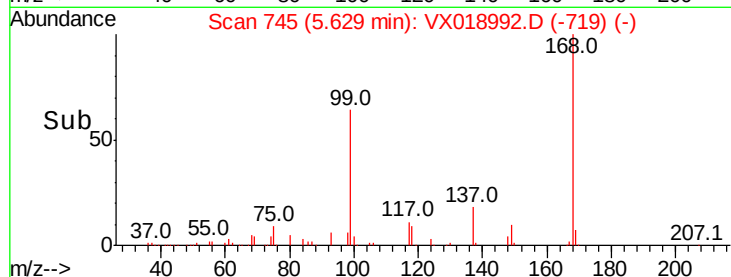
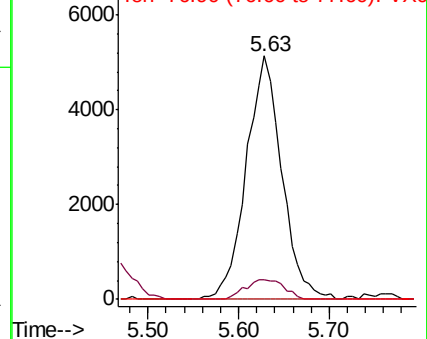
77 0.0 25.0 37.4#



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: 5.983 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

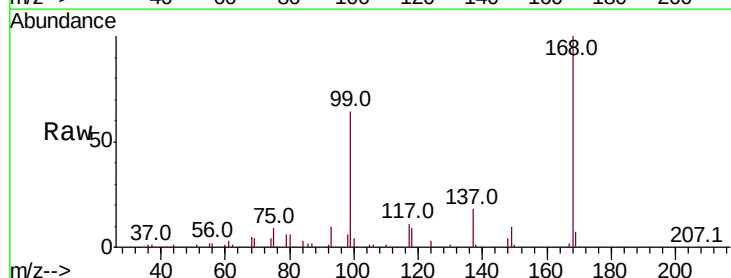
Tgt Ion: 117 Resp: 17331

Ion Ratio Lower Upper

117 100

119 3.8 77.6 116.4#

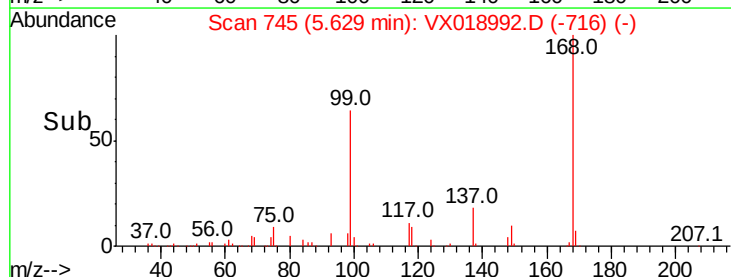
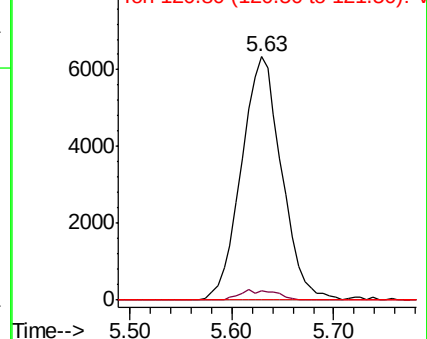
121 0.0 23.9 35.9#

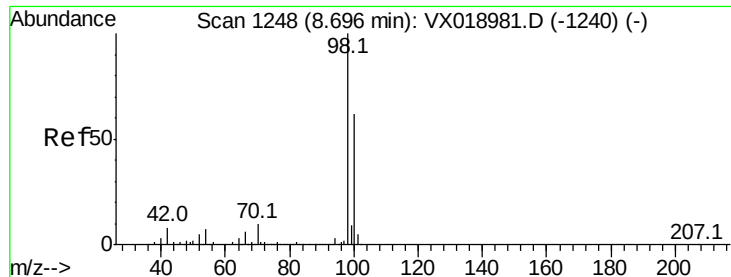


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 51.304 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

Instrument :

MSVOA_X

ClientSampleId :

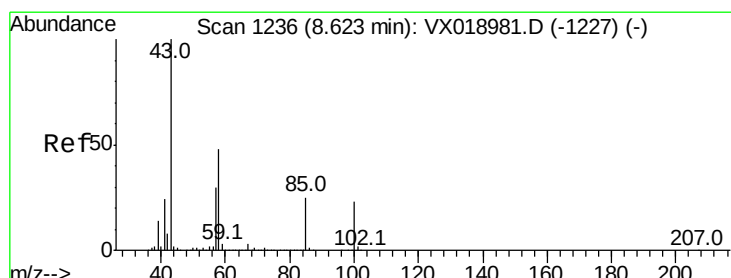
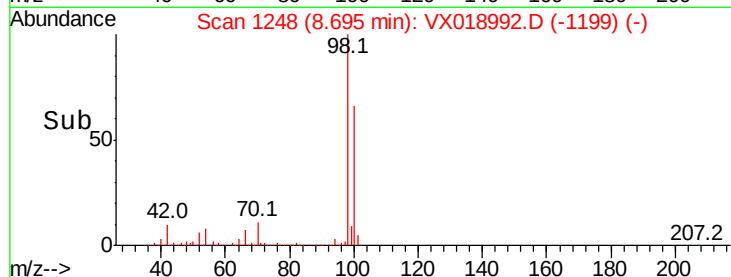
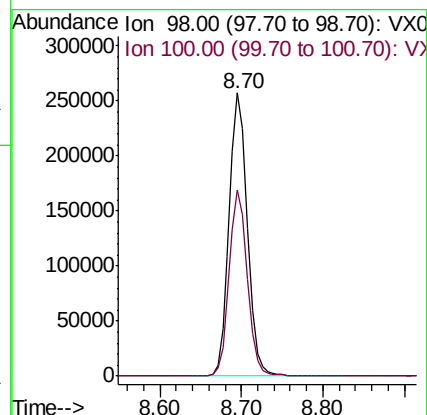
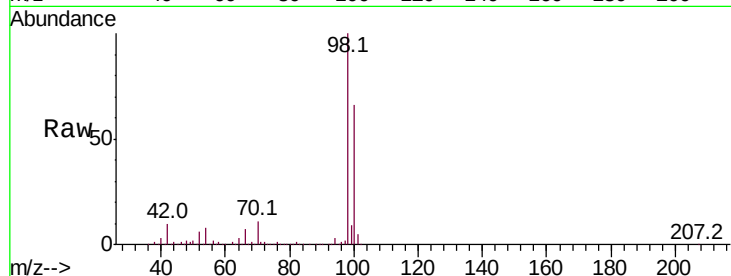
5412

Tot Ion: 98 Resp: 397932

Ion Ratio Lower Upper

98 100

100 65.4 52.6 78.8



#51

4-Methyl-2-Pentanone

Concen: 1.294 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX018992.D

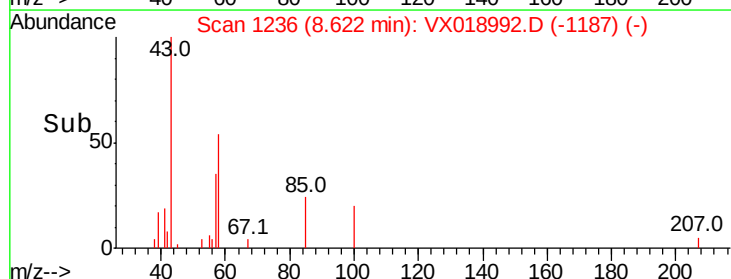
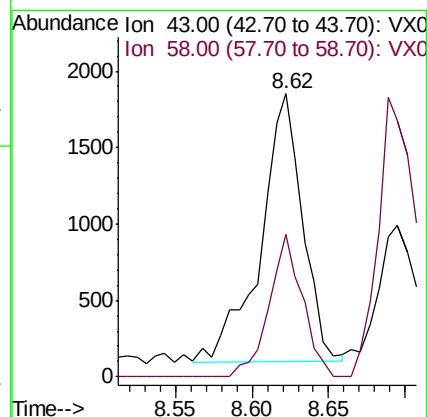
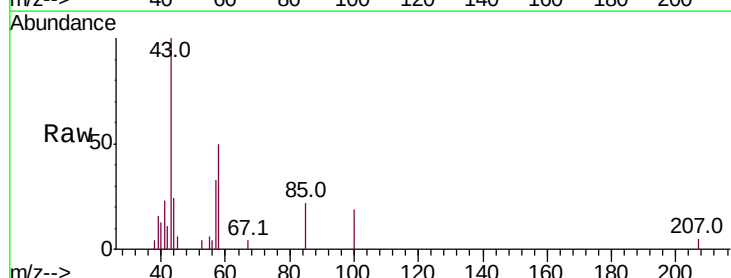
Acq: 20 Oct 2020 22:38

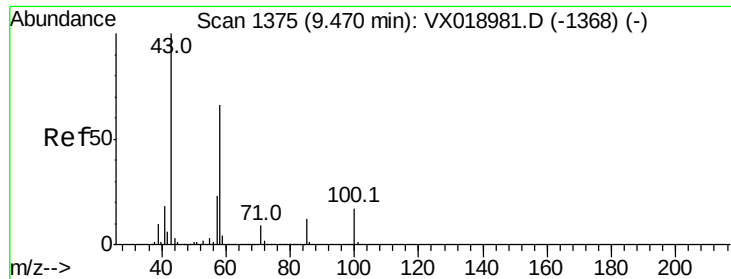
Tgt Ion: 43 Resp: 3350

Ion Ratio Lower Upper

43 100

58 42.0 37.8 56.8

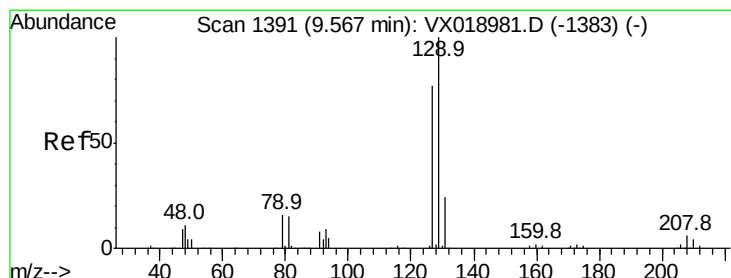
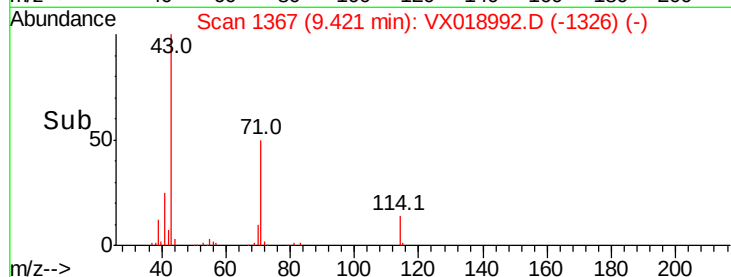
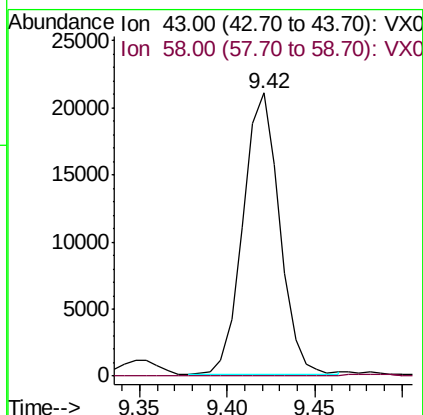
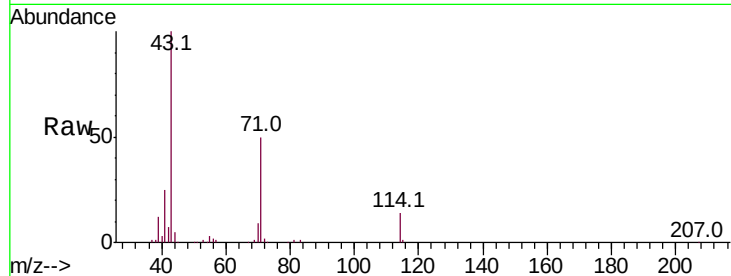




#59
2-Hexanone
Concen: 15.105 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX018992.D
Acq: 20 Oct 2020 22:38

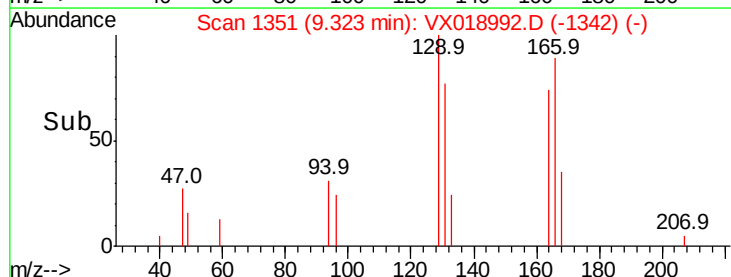
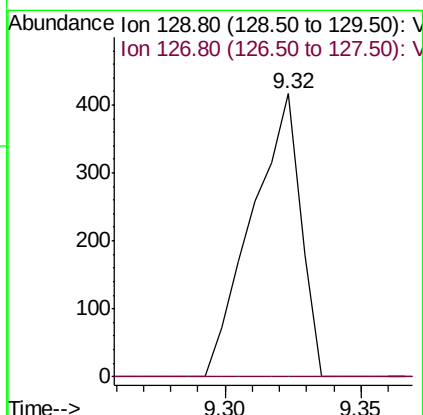
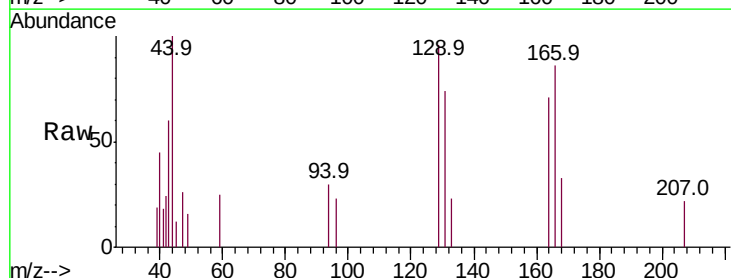
Instrument :
MSVOA_X
ClientSampleId :
5412

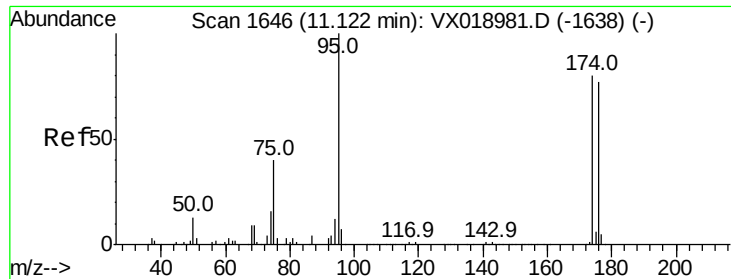
Tot Ion: 43 Resp: 30368
Ion Ratio Lower Upper
43 100
58 0.0 33.0 99.0#



#60
Dibromochloromethane
Concen: 0.205 ug/l
RT: 9.32 min Scan# 1351
Delta R.T. -0.24 min
Lab File: VX018992.D
Acq: 20 Oct 2020 22:38

Tgt Ion: 129 Resp: 517
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.4#

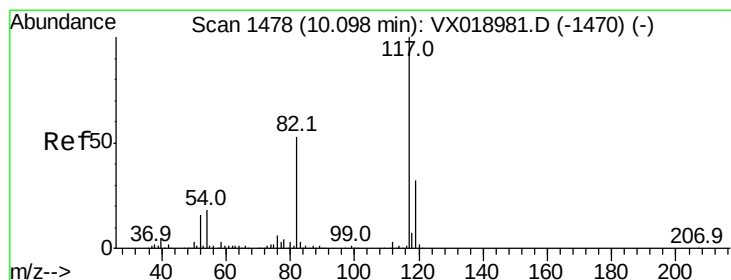
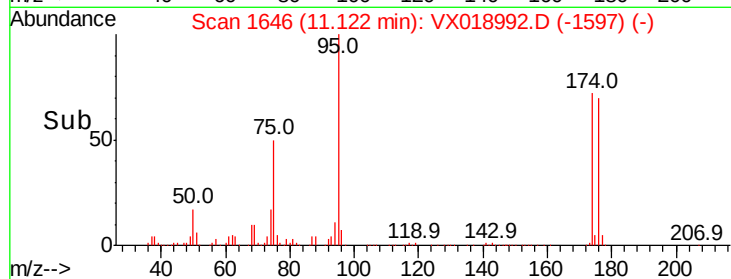
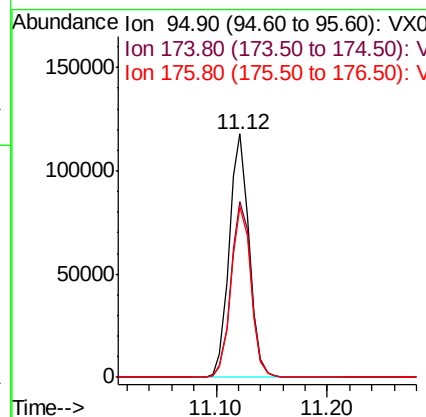
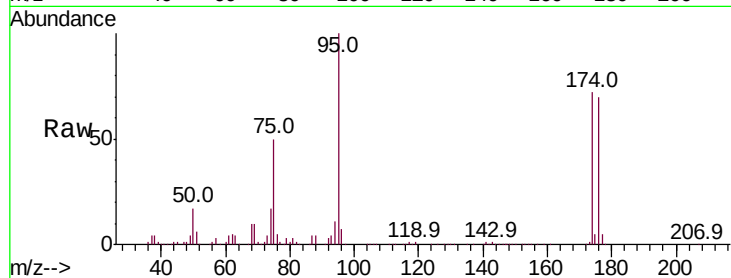




#62
4-Bromofluorobenzene
Concen: 47.779 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX018992.D
Acq: 20 Oct 2020 22:38

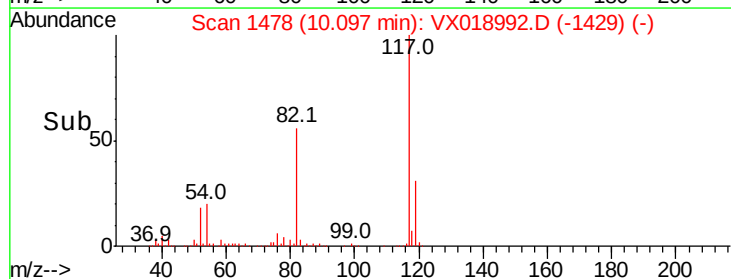
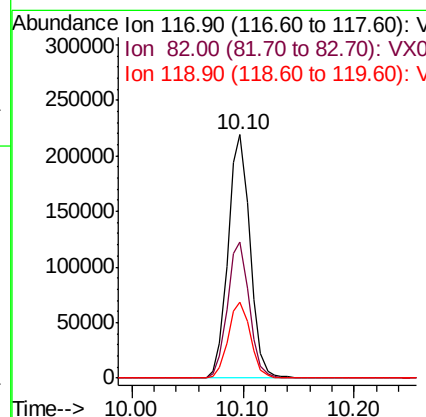
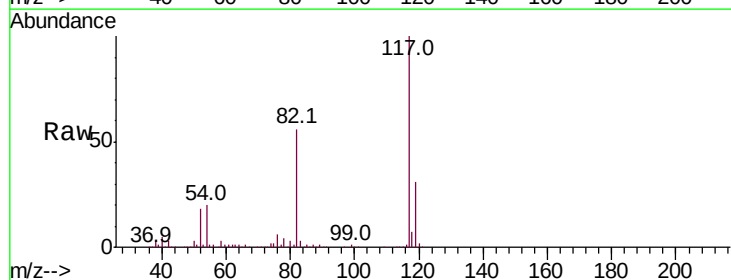
Instrument :
MSVOA_X
ClientSampleId :
5412

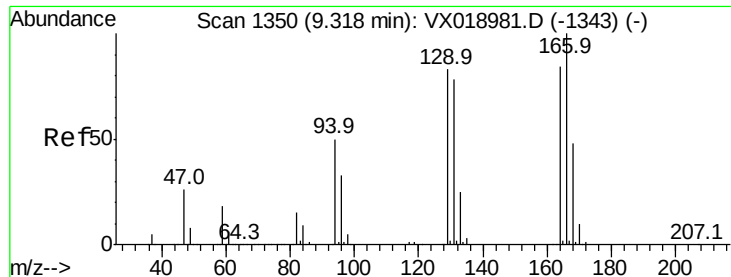
Tot Ion: 95 Resp: 144753
Ion Ratio Lower Upper
95 100
174 73.8 0.0 159.8
176 70.9 0.0 152.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018992.D
Acq: 20 Oct 2020 22:38

Tgt Ion: 117 Resp: 298679
Ion Ratio Lower Upper
117 100
82 56.1 42.2 63.4
119 31.2 25.8 38.8





#64

Tetrachloroethene

Concen: 0.233 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

Instrument :

MSVOA_X

ClientSampleId :

5412

Tot Ion:164 Resp: 491

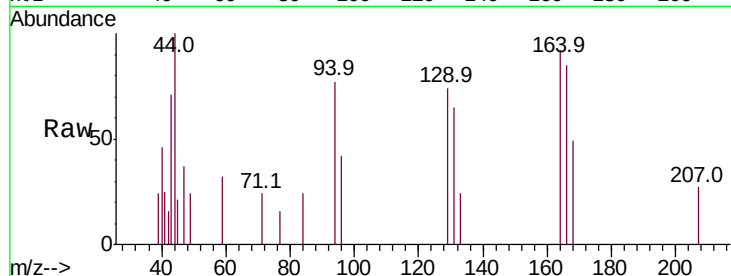
Ion Ratio Lower Upper

164 100

166 92.5 95.2 142.8#

129 81.2 79.4 119.0

131 71.5 74.2 111.2#



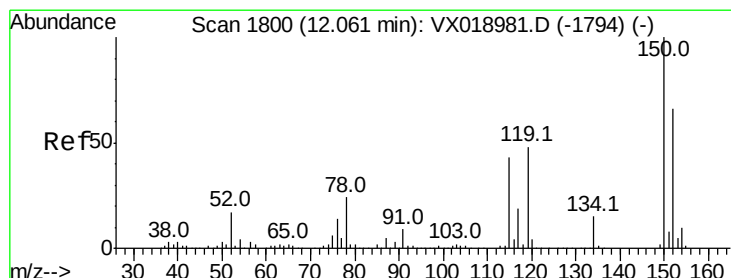
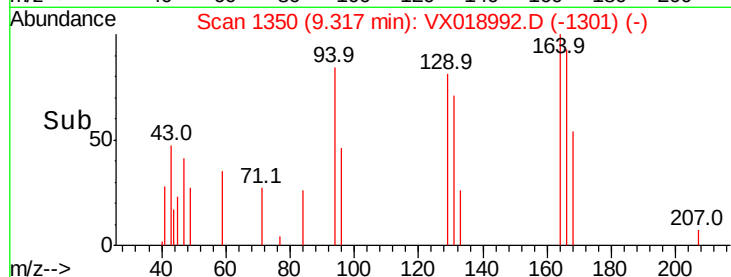
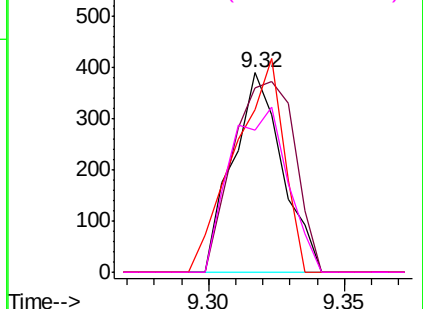
Abundance

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

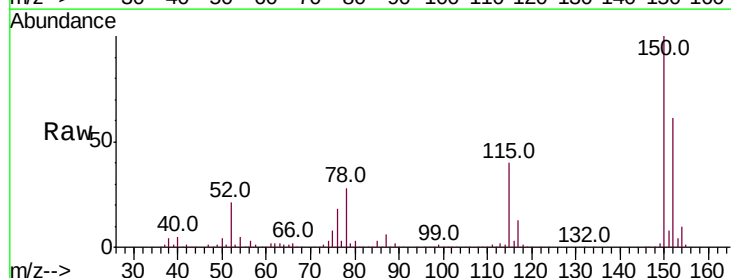
Tgt Ion:152 Resp: 147322

Ion Ratio Lower Upper

152 100

115 62.6 41.2 123.6

150 157.8 0.0 345.6

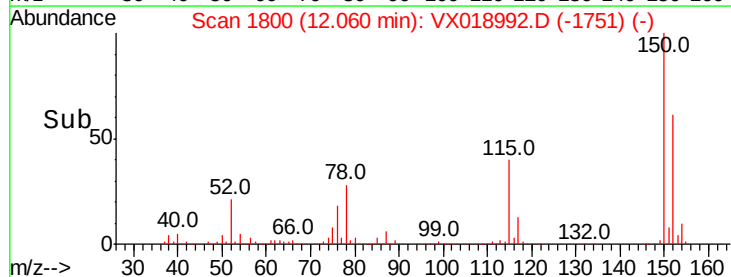
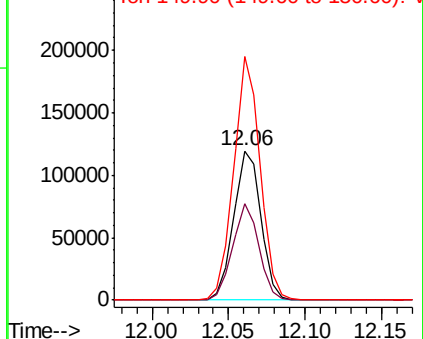


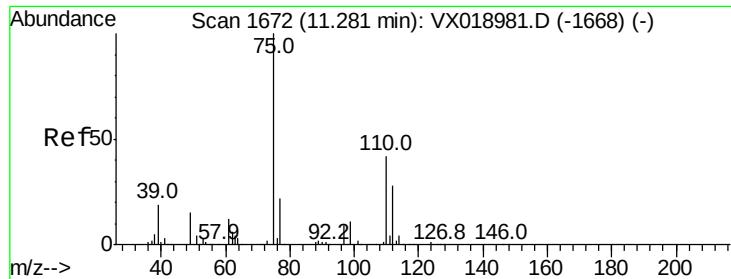
Abundance

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: 24.449 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

Instrument :

MSVOA_X

ClientSampled :

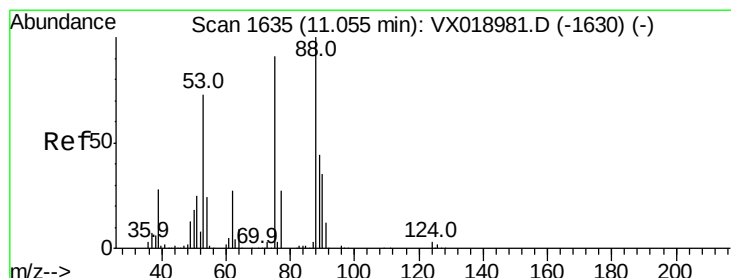
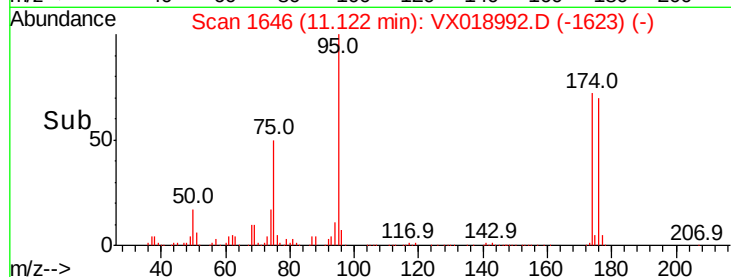
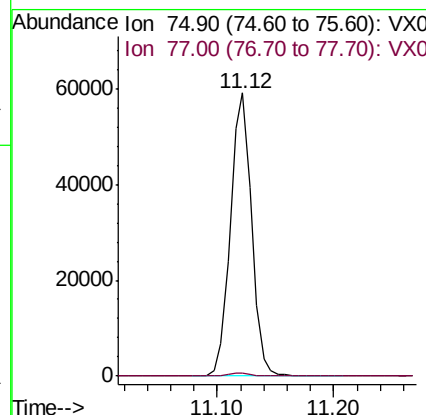
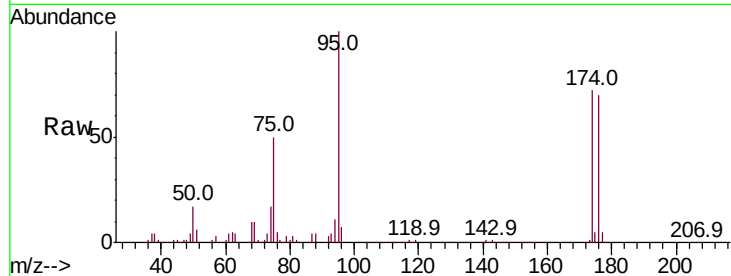
5412

Tot Ion: 75 Resp: 74030

Ion Ratio Lower Upper

75 100

77 1.2 20.6 61.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.492 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018992.D

Acq: 20 Oct 2020 22:38

Tgt Ion: 75 Resp: 74030

Ion Ratio Lower Upper

75 100

53 0.0 63.9 95.9#

89 0.0 39.9 59.9#

