

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019778.D
 Acq On : 09 Dec 2020 15:01
 Operator : JC/MD
 Sample : L4970-22
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 4S1-D-BOTTOM

Quant Time: Dec 10 05:40:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	338062	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.83	114	553086	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	508553	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	223985	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	207056	46.60	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.20%
35) Dibromofluoromethane	5.46	113	170060	47.58	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.16%
50) Toluene-d8	8.70	98	672950	49.31	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.62%
62) 4-Bromofluorobenzene	11.12	95	236653	45.56	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.12%

Target Compounds

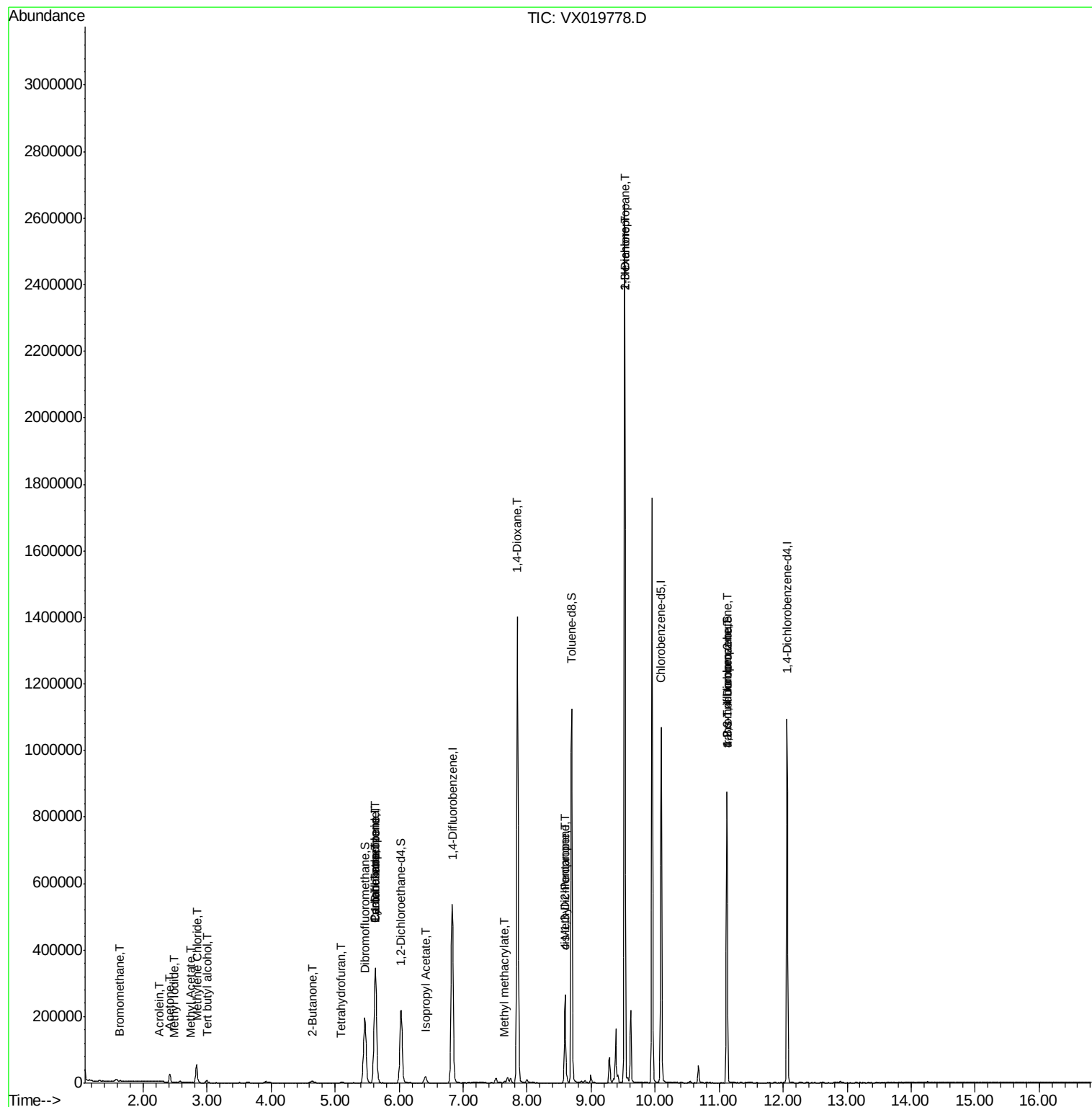
					Qvalue
5) Bromomethane	1.64	94	733	0.575	ug/l 95
10) Methyl Iodide	2.50	142	943	0.209	ug/l 98
11) Tert butyl alcohol	2.99	59	4508	2.347	ug/l # 81
13) Acrolein	2.26	56	157	0.320	ug/l # 71
16) Acetone	2.42	43	25121	15.042	ug/l 99
18) Methyl Acetate	2.75	43	1022	0.250	ug/l 90
20) Methylene Chloride	2.84	84	26812	5.774	ug/l 96
25) 2-Butanone	4.64	43	4156	1.620	ug/l 97
29) Tetrahydrofuran	5.09	42	525	0.318	ug/l # 58
31) Cyclohexane	5.62	56	6428	1.163	ug/l # 1
36) 1,1-Dichloropropene	5.63	75	25136	5.029	ug/l # 48
38) Carbon Tetrachloride	5.63	117	32399	6.620	ug/l # 17
43) Isopropyl Acetate	6.41	43	24702	3.011	ug/l 99
48) Methyl methacrylate	7.65	41	6571	1.629	ug/l # 10
49) 1,4-Dioxane	7.85	88	223	2.281	ug/l # 1
51) 4-Methyl-2-Pentanone	8.59	43	84928	16.956	ug/l # 47
54) cis-1,3-Dichloropropene	8.59	75	45272	7.344	ug/l # 60
57) 1,3-Dichloropropane	9.52	76	23680	3.604	ug/l # 43
59) 2-Hexanone	9.52	43	280321	72.201	ug/l # 46
76) 1,2,3-Trichloropropane	11.12	75	114378	22.768	ug/l # 39
81) trans-1,4-Dichloro-2-buten	11.12	75	114378	65.819	ug/l # 12

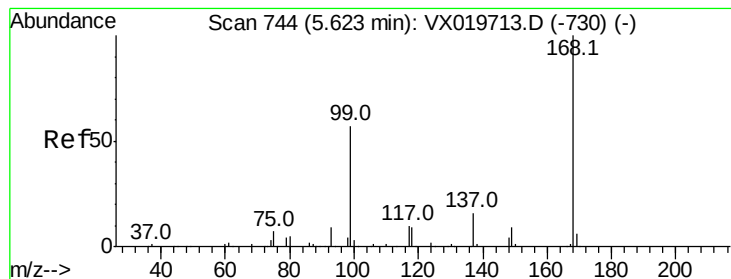
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 10 05:40:15 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

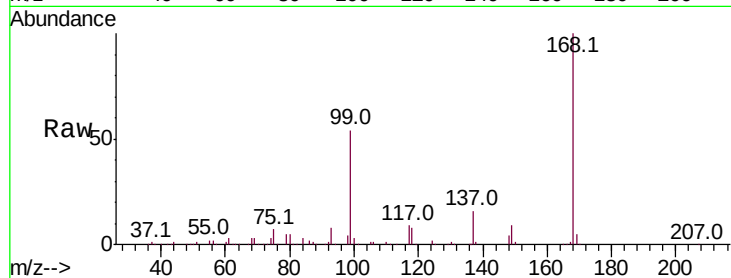
4S1-D-BOTTOM

Tot Ion:168 Resp: 338062

Ion Ratio Lower Upper

168 100

99 53.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

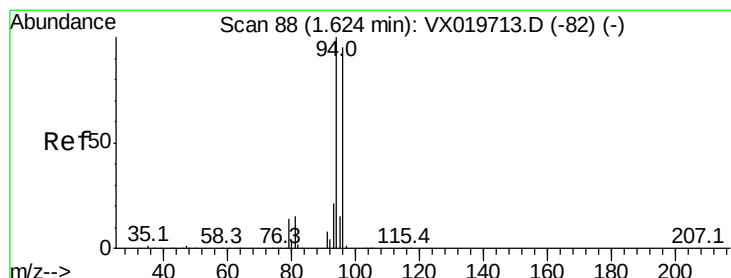
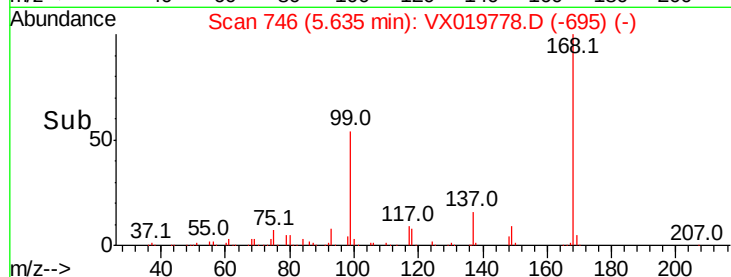
5.63

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.575 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019778.D

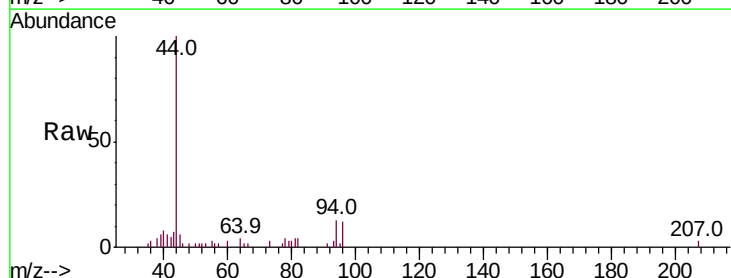
Acq: 09 Dec 2020 15:01

Tgt Ion: 94 Resp: 733

Ion Ratio Lower Upper

94 100

96 90.2 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

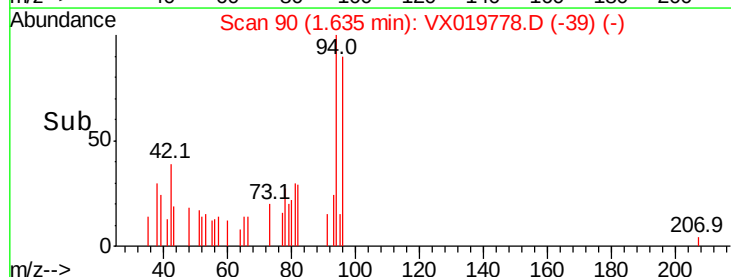
300

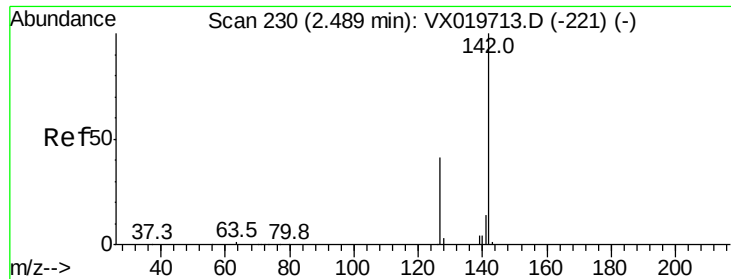
200

100

0

Time-->

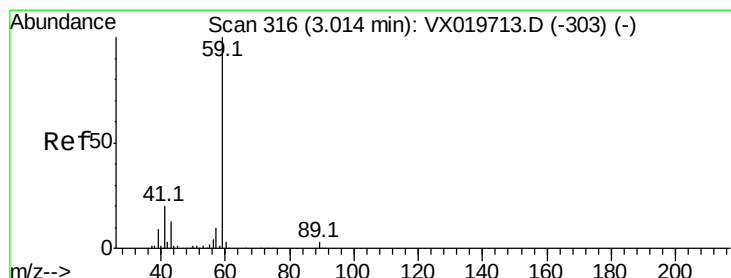
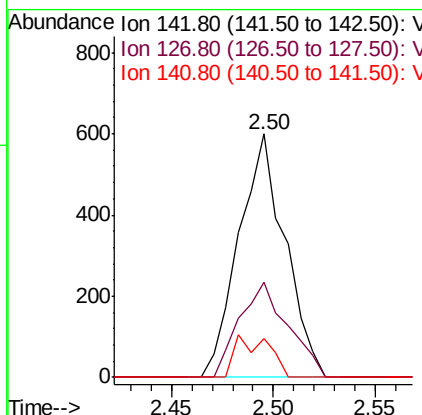
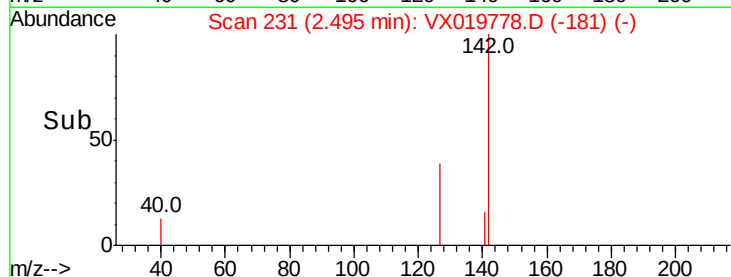
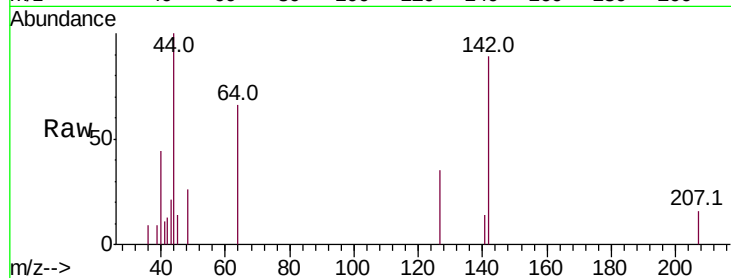




#10
Methvl Iodide
Concen: 0.209 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX019778.D
Acq: 09 Dec 2020 15:01

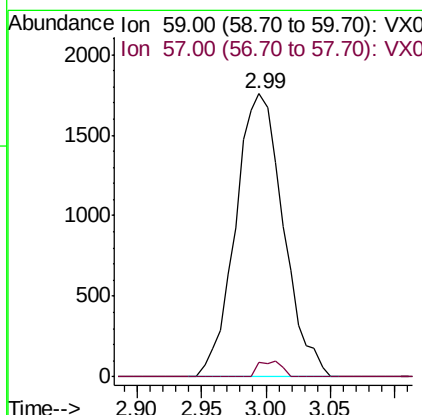
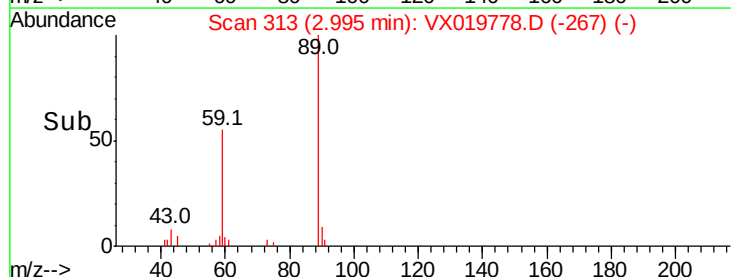
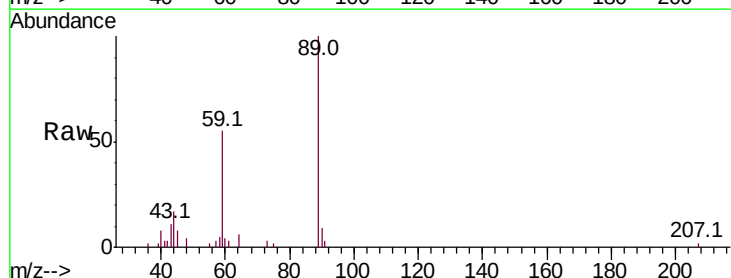
Instrument :
MSVOA_X
ClientSampleId :
4S1-D-BOTTOM

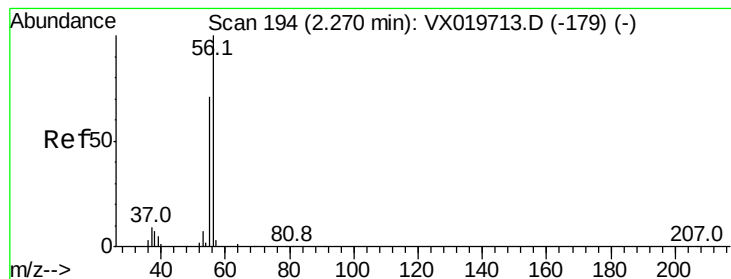
Tot Ion:142 Resp: 943
Ion Ratio Lower Upper
142 100
127 40.9 33.3 49.9
141 12.6 11.4 17.0



#11
Tert butyl alcohol
Concen: 2.347 ug/l
RT: 2.99 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019778.D
Acq: 09 Dec 2020 15:01

Tgt Ion: 59 Resp: 4508
Ion Ratio Lower Upper
59 100
57 2.6 7.8 11.8#





#13

Acrolein

Concen: 0.320 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.01 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

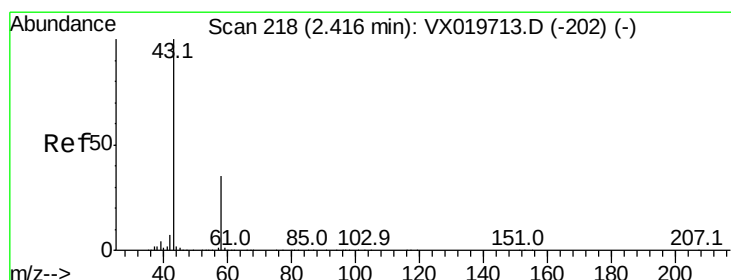
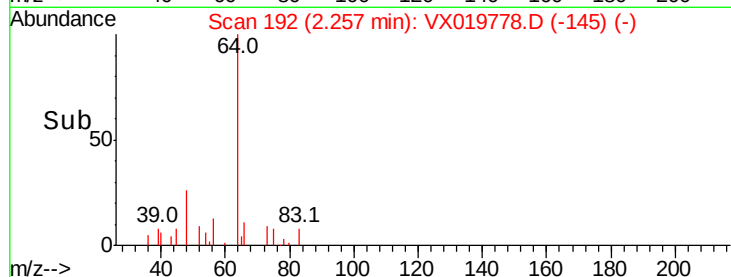
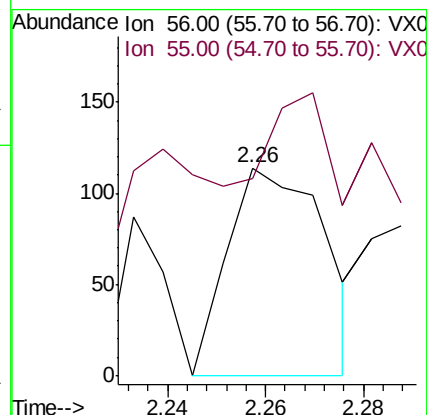
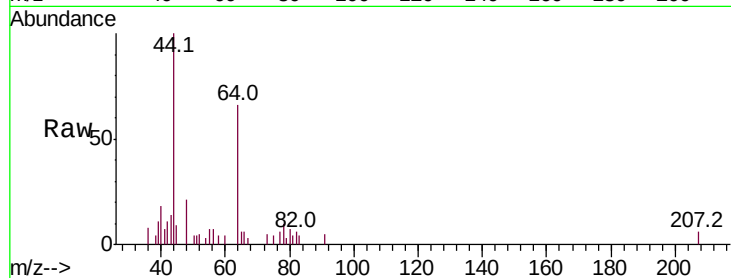
4S1-D-BOTTOM

Tot Ion: 56 Resp: 157

Ion Ratio Lower Upper

56 100

55 94.3 56.4 84.6#



#16

Acetone

Concen: 15.042 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019778.D

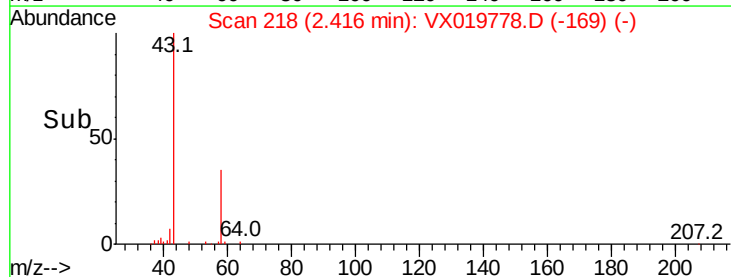
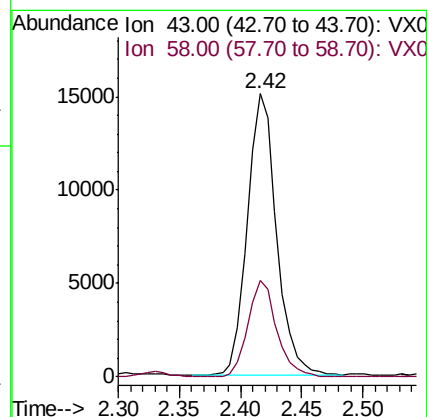
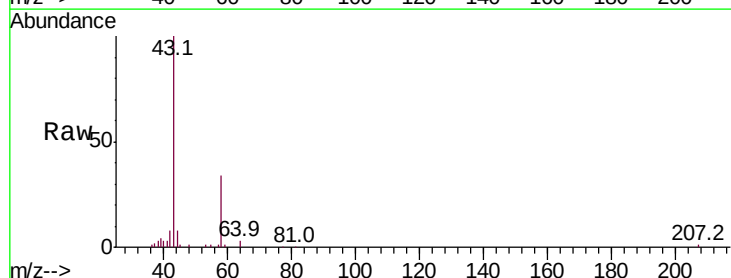
Acq: 09 Dec 2020 15:01

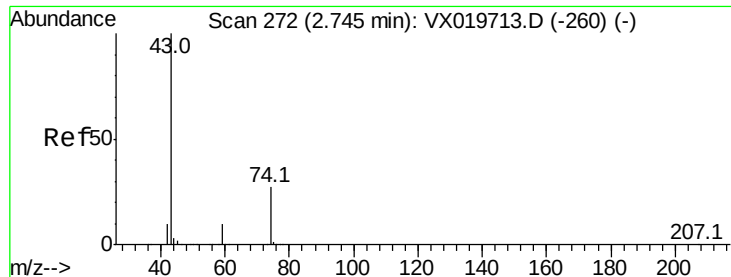
Tgt Ion: 43 Resp: 25121

Ion Ratio Lower Upper

43 100

58 34.2 27.8 41.8

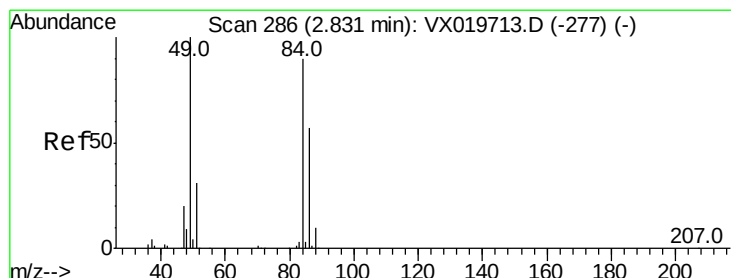
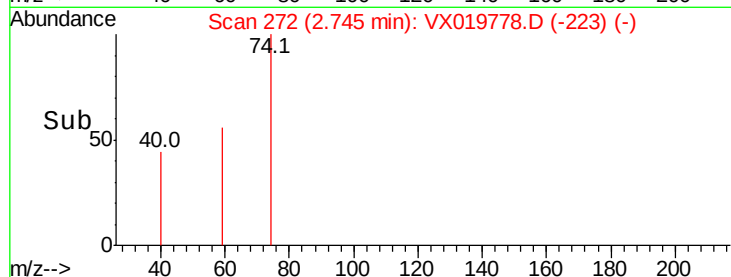
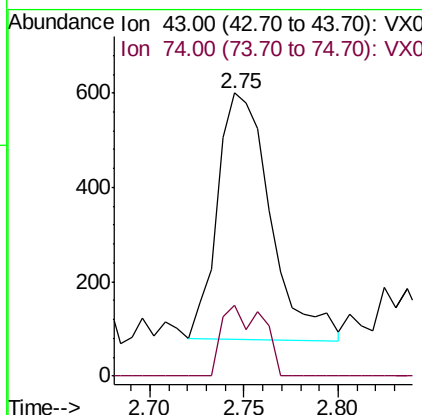
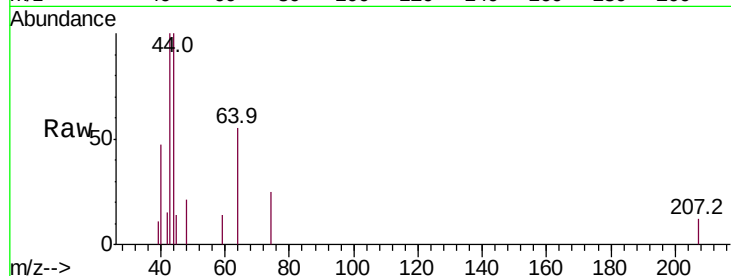




#18
Methvl Acetate
Concen: 0.250 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX019778.D
Acq: 09 Dec 2020 15:01

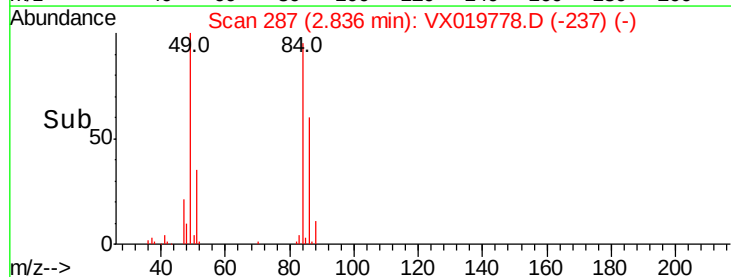
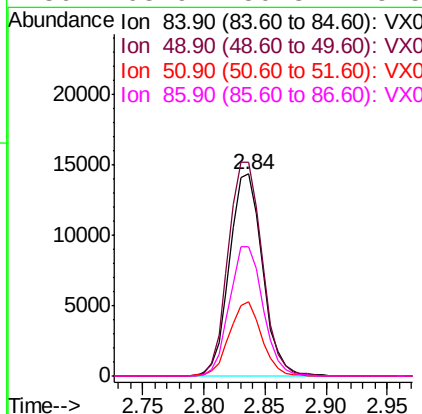
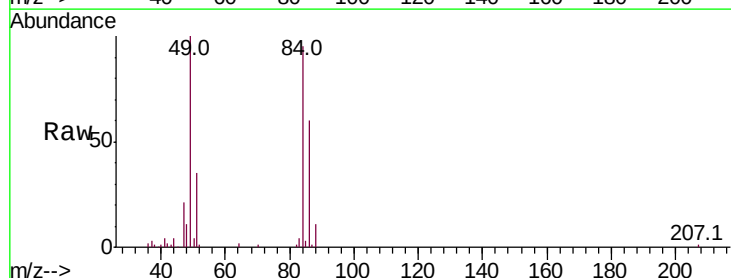
Instrument :
MSVOA_X
ClientSampleId :
4S1-D-BOTTOM

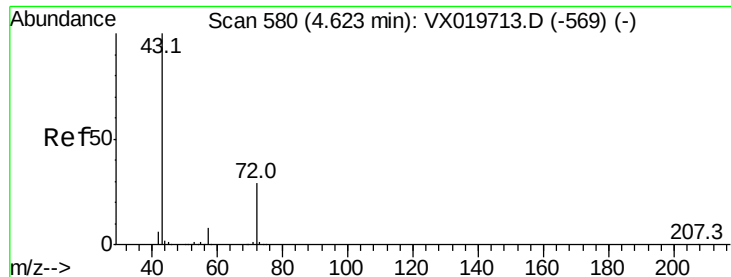
Tot Ion: 43 Resp: 1022
Ion Ratio Lower Upper
43 100
74 22.1 21.9 32.9



#20
Methylene Chloride
Concen: 5.774 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019778.D
Acq: 09 Dec 2020 15:01

Tgt Ion: 84 Resp: 26812
Ion Ratio Lower Upper
84 100
49 105.6 88.6 132.8
51 36.6 27.0 40.6
86 63.9 50.3 75.5





#25

2-Butanone

Concen: 1.620 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

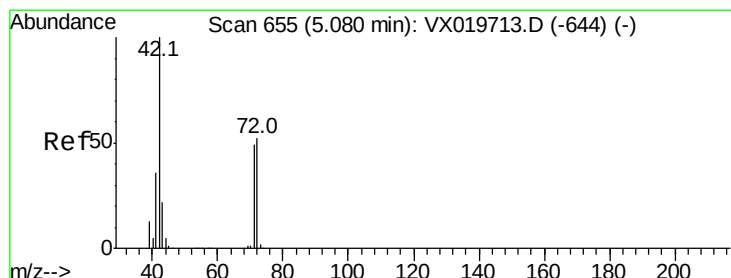
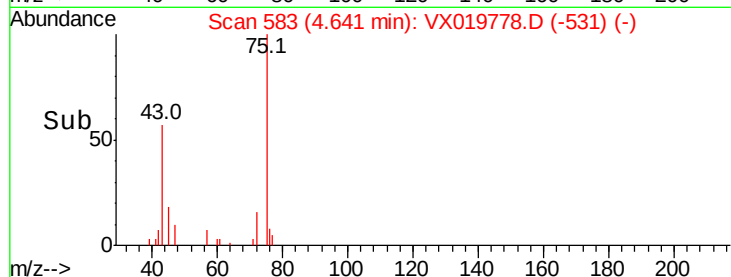
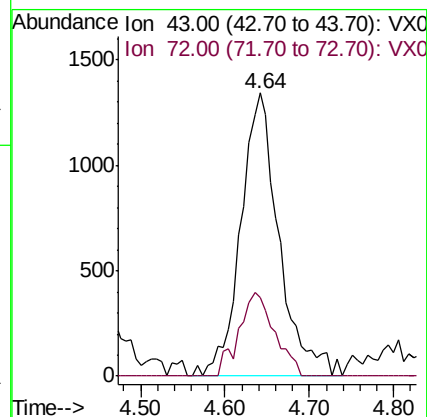
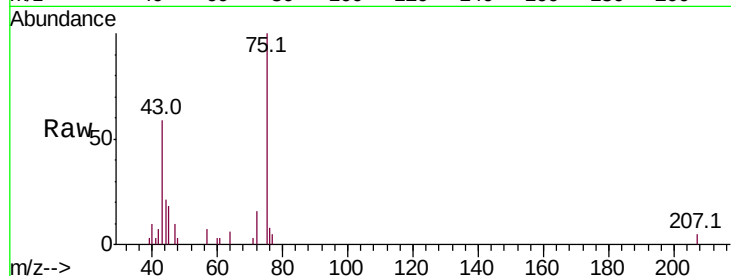
4S1-D-BOTTOM

Tot Ion: 43 Resp: 4156

Ion Ratio Lower Upper

43 100

72 27.8 23.7 35.5



#29

Tetrahydrofuran

Concen: 0.318 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

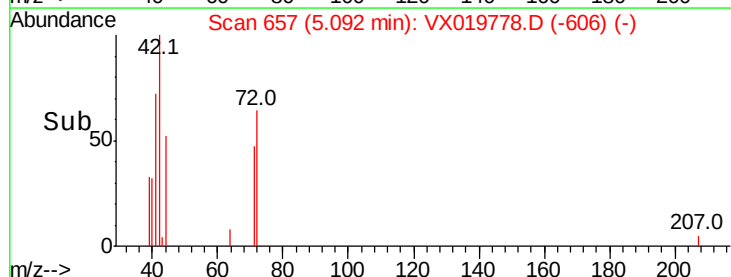
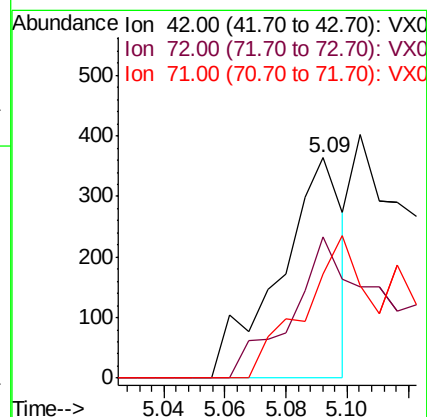
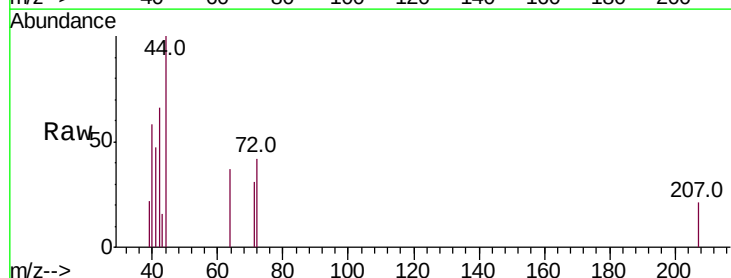
Tgt Ion: 42 Resp: 525

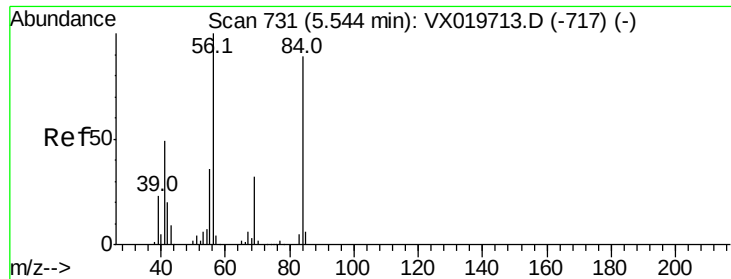
Ion Ratio Lower Upper

42 100

72 93.1 41.7 62.5#

71 64.4 38.4 57.6#

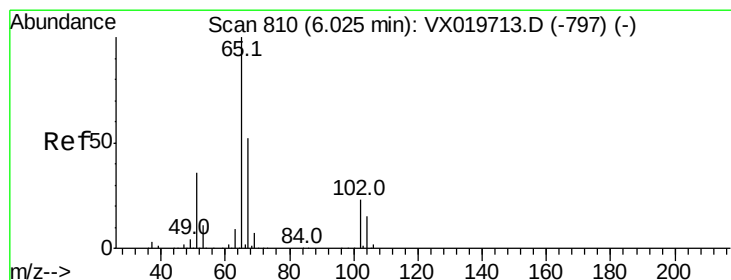
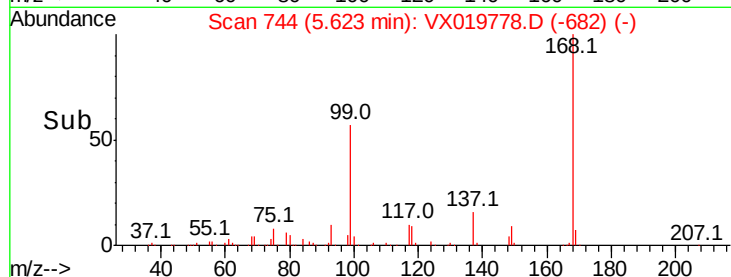
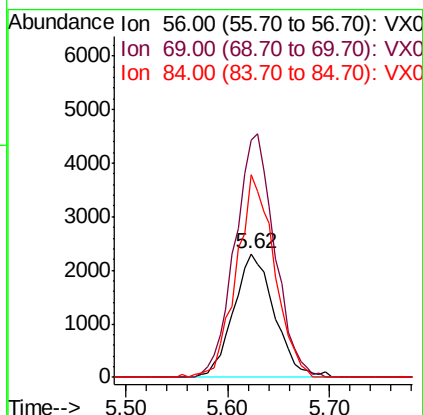
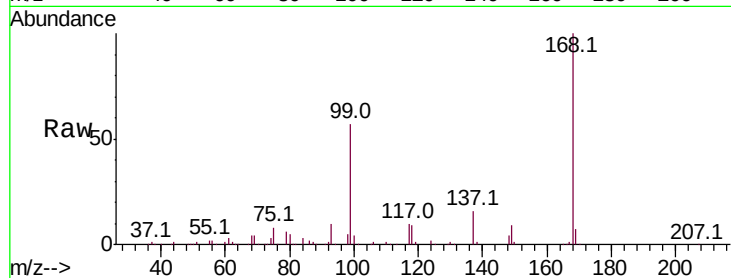




#31
Cyclohexane
Concen: 1.163 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019778.D
Acq: 09 Dec 2020 15:01

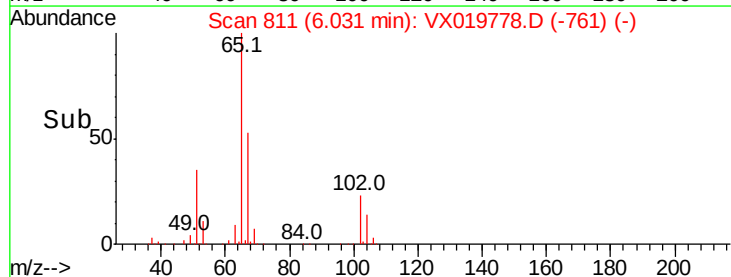
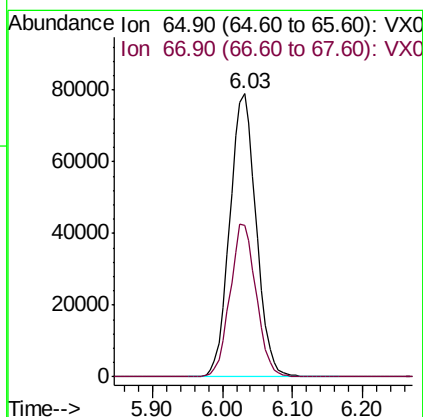
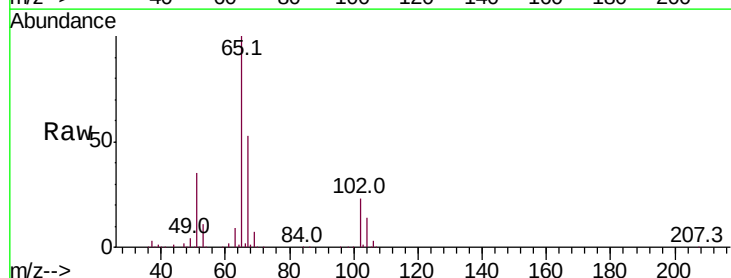
Instrument :
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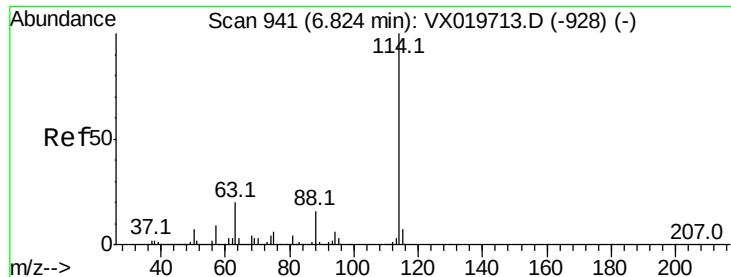
Tot Ion: 56 Resp: 6428
Ion Ratio Lower Upper
56 100
69 191.4 25.3 37.9#
84 163.7 71.4 107.0#



#33
1,2-Dichloroethane-d4
Concen: 46.601 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.01 min
Lab File: VX019778.D
Acq: 09 Dec 2020 15:01

Tgt Ion: 65 Resp: 207056
Ion Ratio Lower Upper
65 100
67 53.4 0.0 105.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

4S1-D-BOTTOM

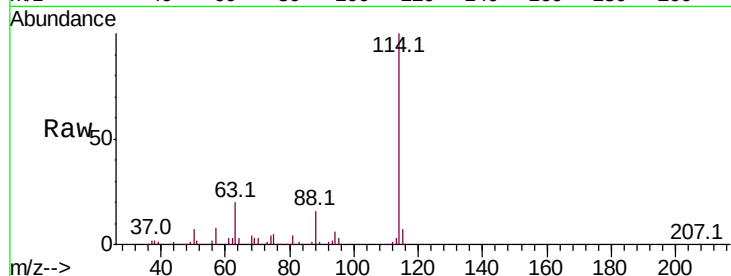
Tot Ion:114 Resp: 553086

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.8

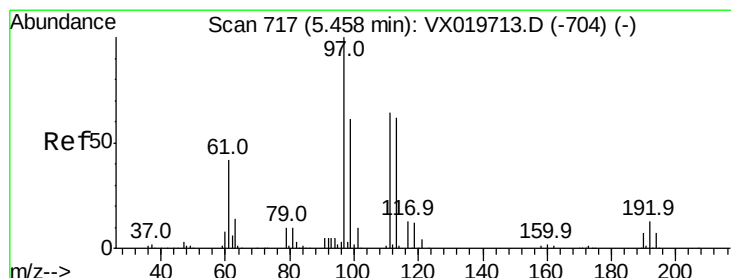
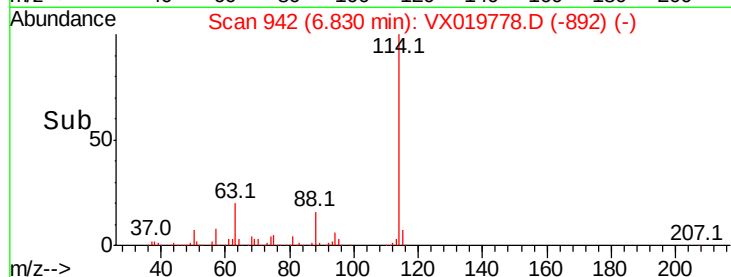
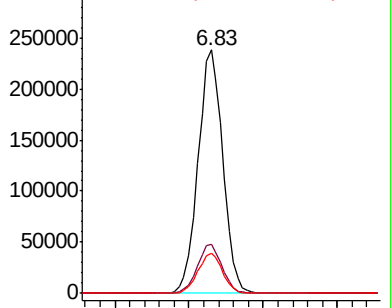
88 16.2 0.0 32.8



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: 47.576 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

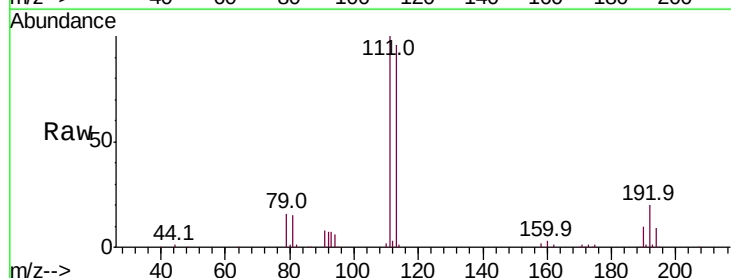
Tgt Ion:113 Resp: 170060

Ion Ratio Lower Upper

113 100

111 102.6 81.9 122.9

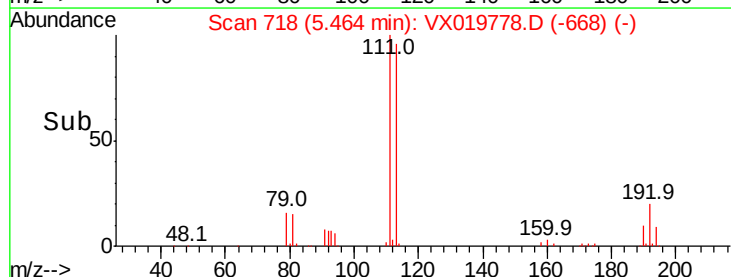
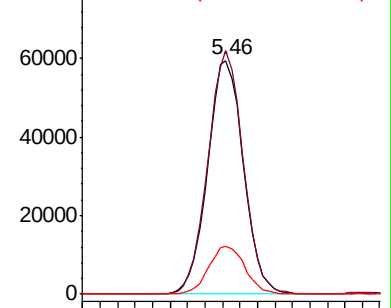
192 20.7 16.7 25.1

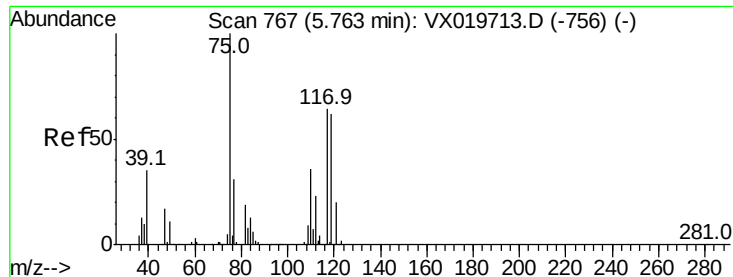


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.029 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

4S1-D-BOTTOM

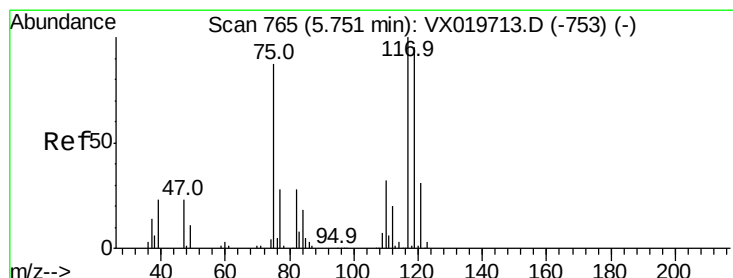
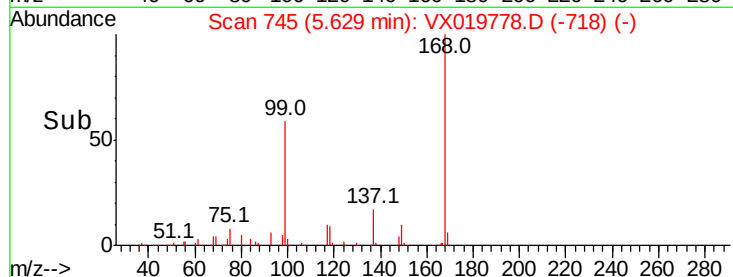
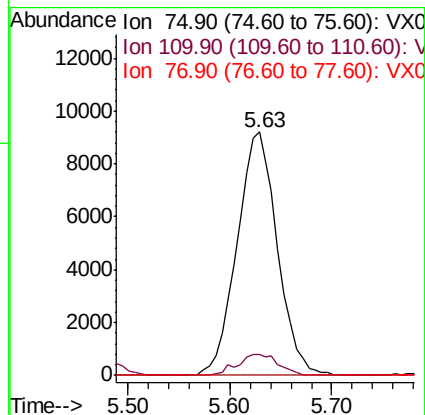
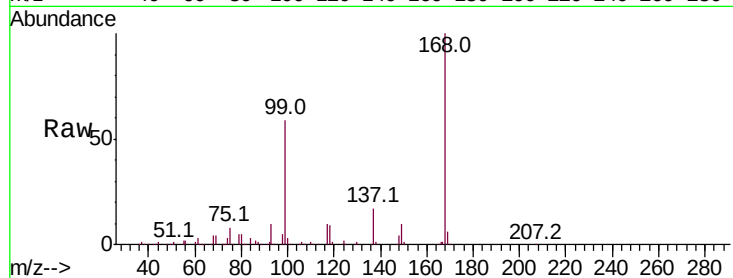
Tot Ion: 75 Resp: 25136

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.4#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 6.620 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

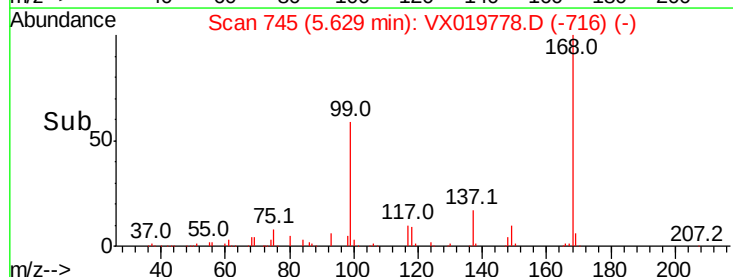
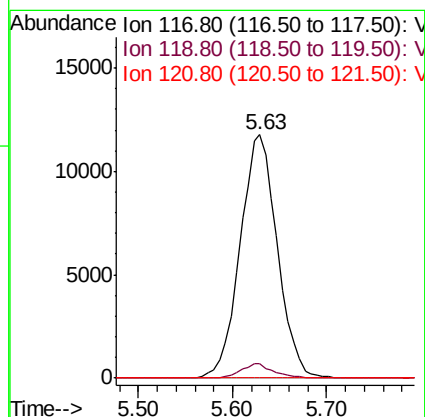
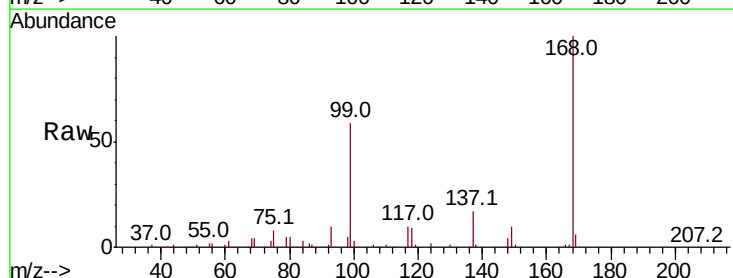
Tgt Ion: 117 Resp: 32399

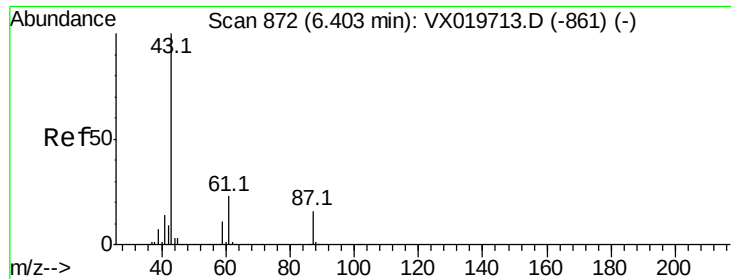
Ion Ratio Lower Upper

117 100

119 5.8 76.2 114.2#

121 0.0 24.8 37.2#





#43

Isopropyl Acetate

Concen: 3.011 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

4S1-D-BOTTOM

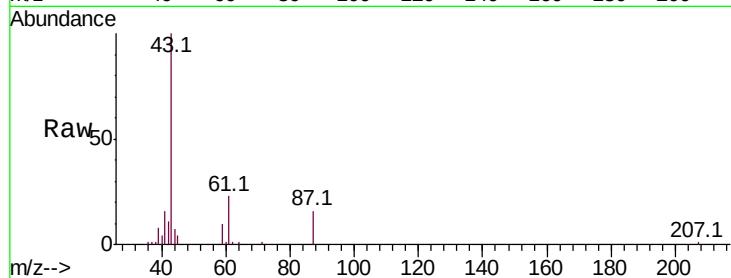
Tot Ion: 43 Resp: 24702

Ion Ratio Lower Upper

43 100

61 22.2 18.2 27.4

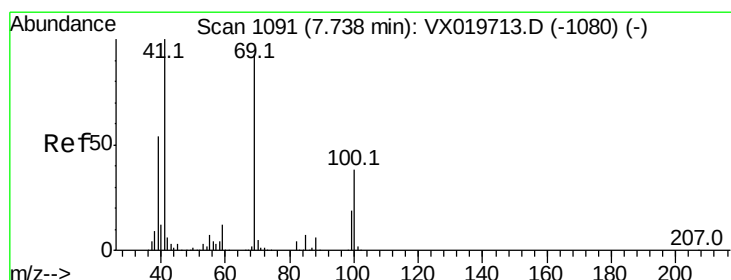
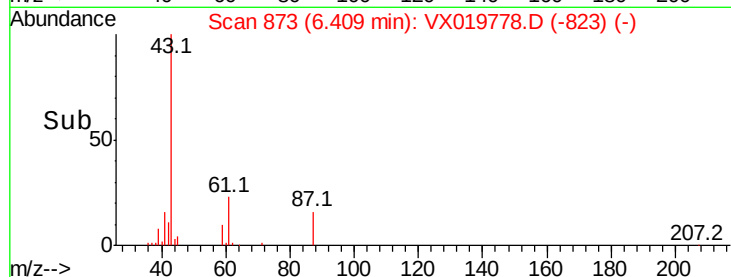
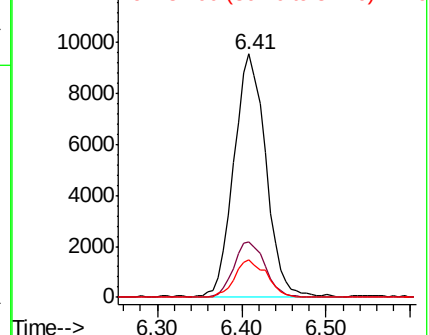
87 15.2 12.5 18.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.629 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

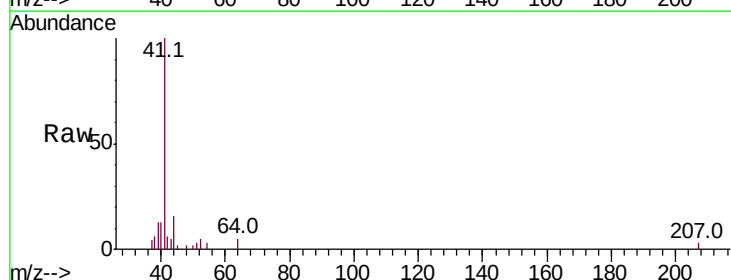
Tgt Ion: 41 Resp: 6571

Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

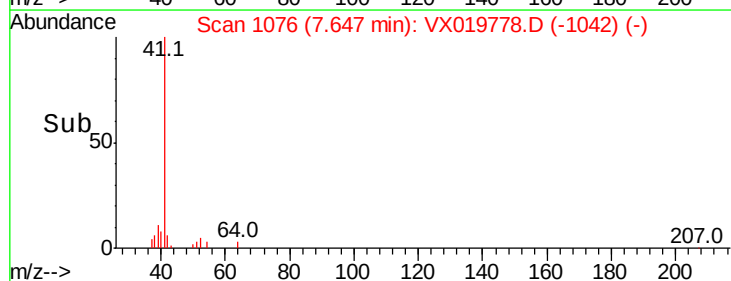
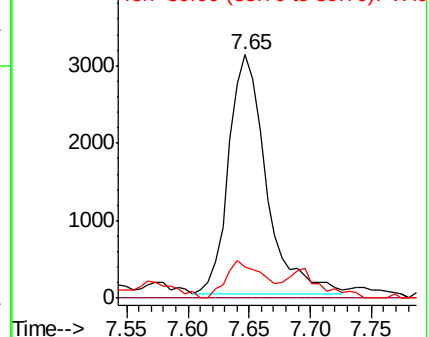
39 0.0 44.6 67.0#

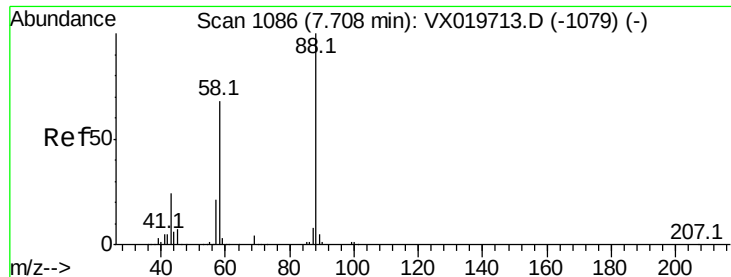


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.281 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.15 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

4S1-D-BOTTOM

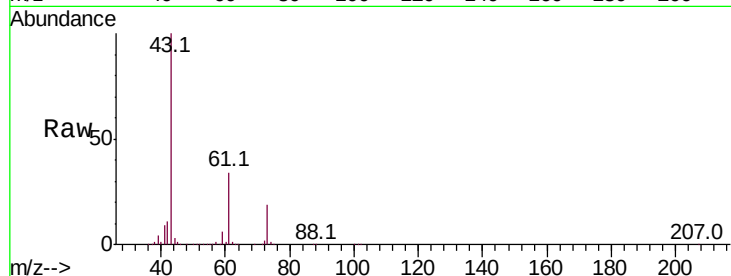
Tot Ion: 88 Resp: 223

Ion Ratio Lower Upper

88 100

43 540067.3 23.2 34.8#

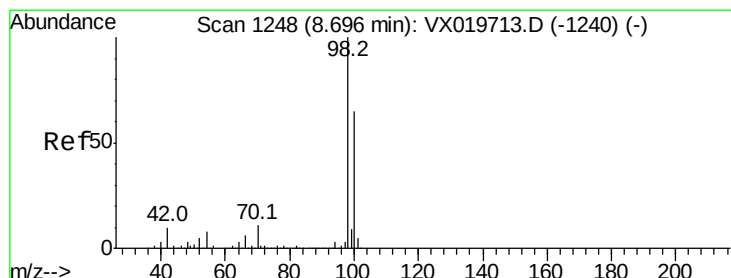
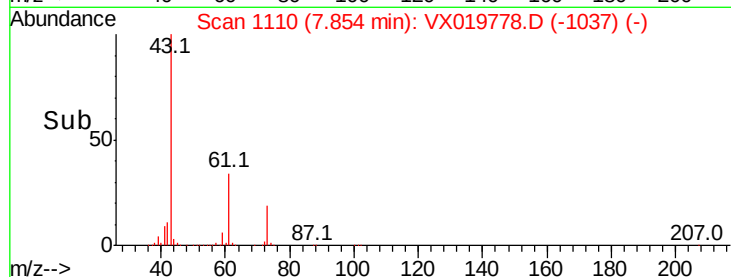
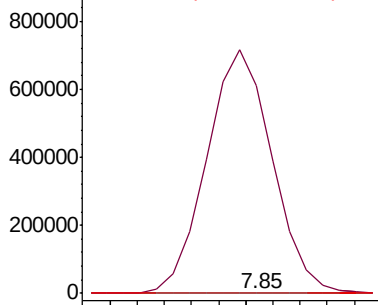
58 2668.2 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.313 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019778.D

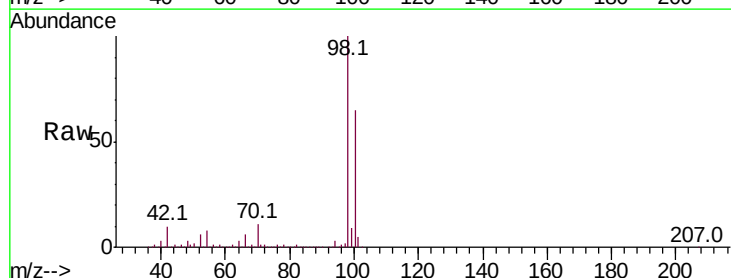
Acq: 09 Dec 2020 15:01

Tgt Ion: 98 Resp: 672950

Ion Ratio Lower Upper

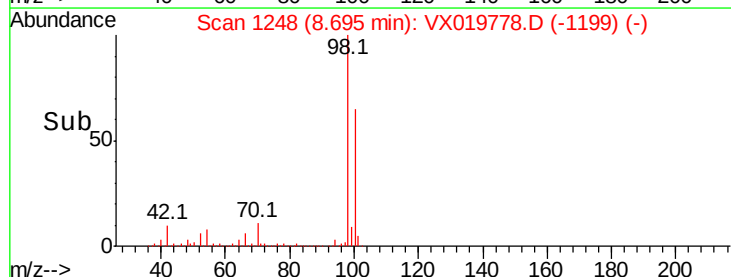
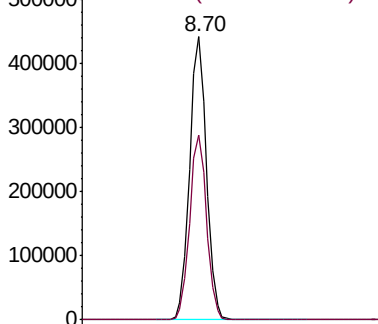
98 100

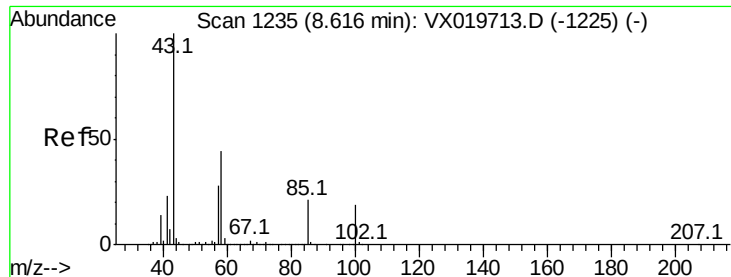
100 65.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 16.956 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

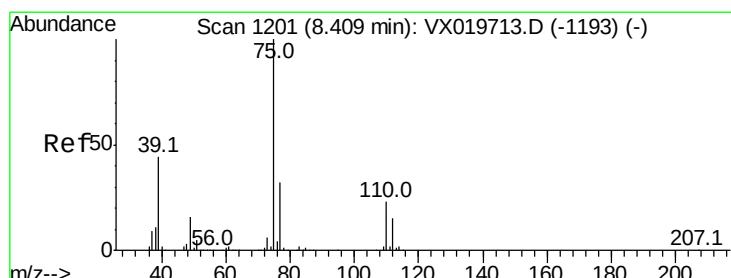
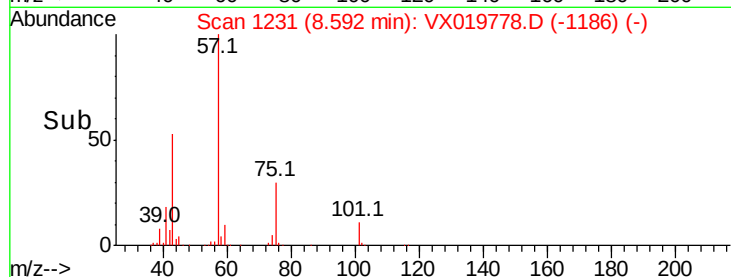
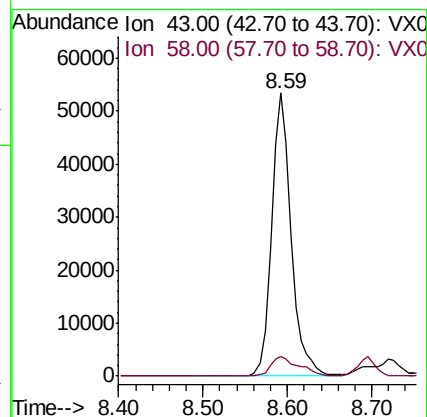
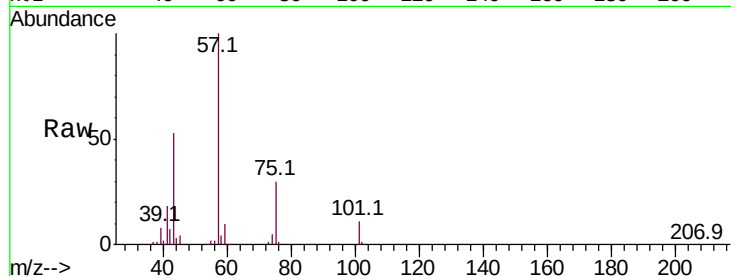
4S1-D-BOTTOM

Tot Ion: 43 Resp: 84928

Ion Ratio Lower Upper

43 100

58 9.9 35.4 53.0#



#54

cis-1,3-Dichloropropene

Concen: 7.344 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

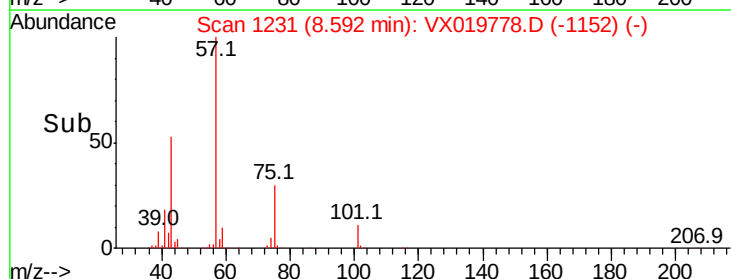
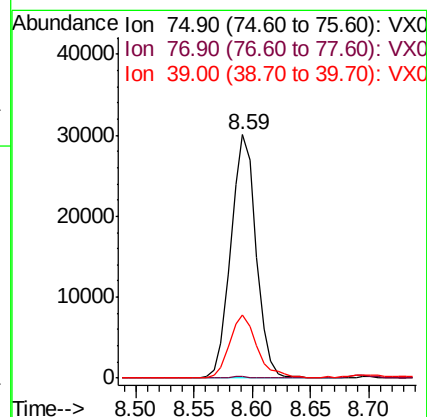
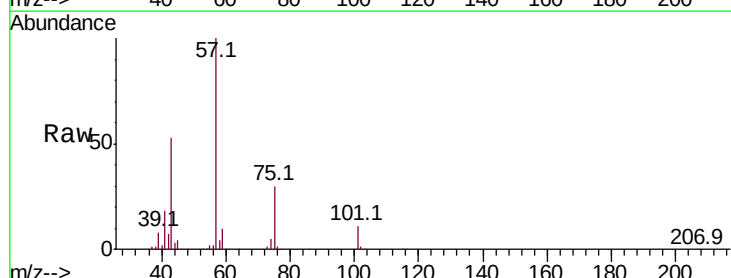
Tgt Ion: 75 Resp: 45272

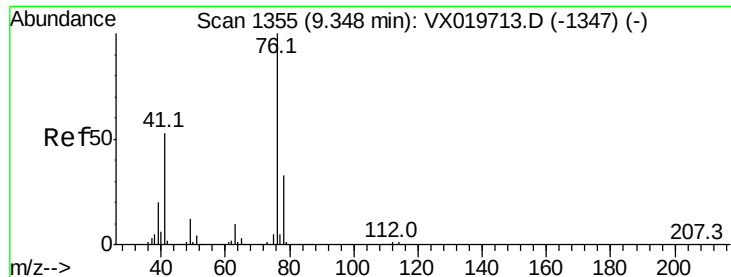
Ion Ratio Lower Upper

75 100

77 0.6 25.7 38.5#

39 25.8 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 3.604 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

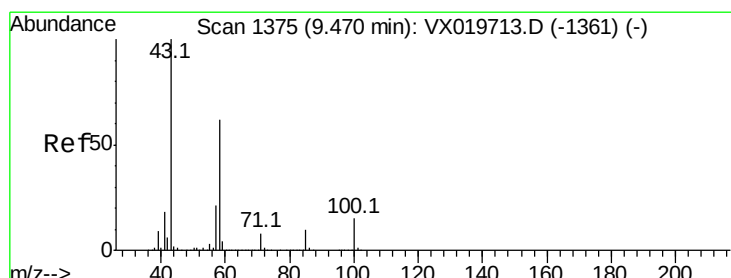
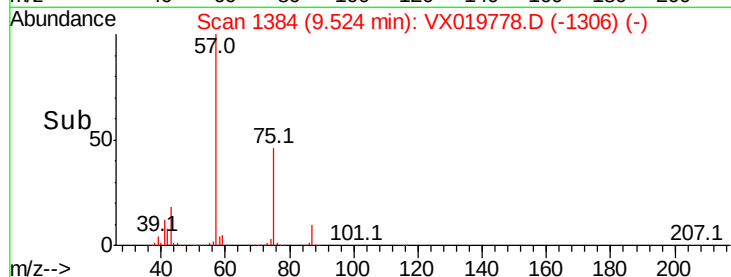
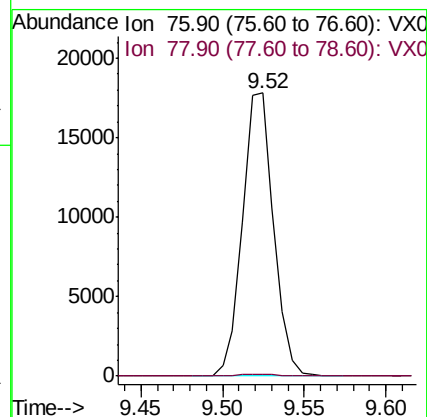
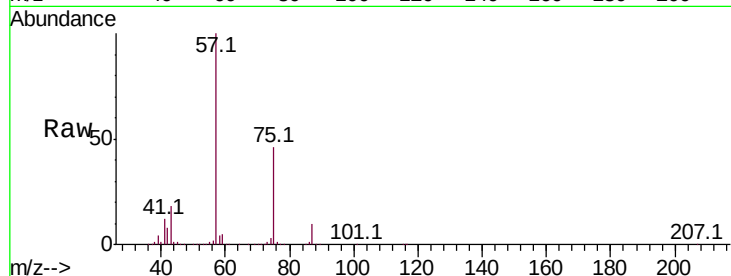
4S1-D-BOTTOM

Tot Ion: 76 Resp: 23680

Ion Ratio Lower Upper

76 100

78 0.6 26.2 39.2#



#59

2-Hexanone

Concen: 72.201 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019778.D

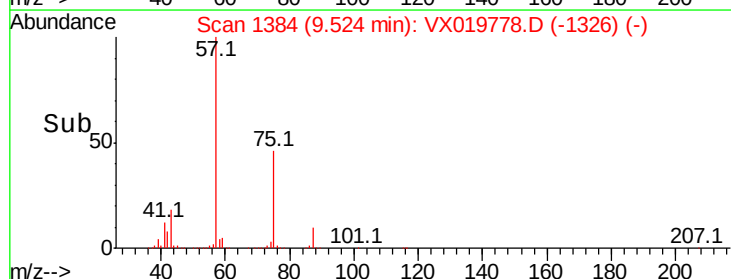
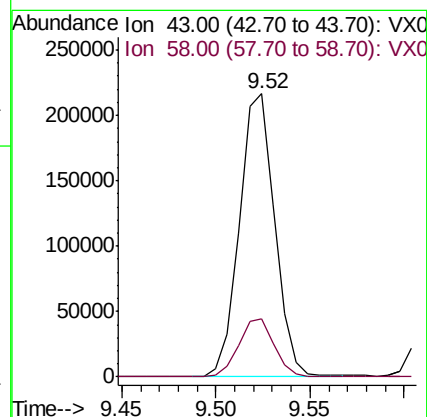
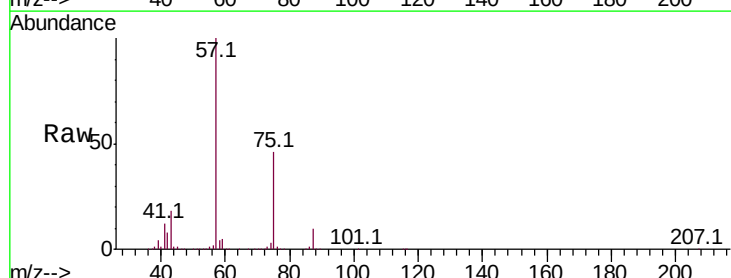
Acq: 09 Dec 2020 15:01

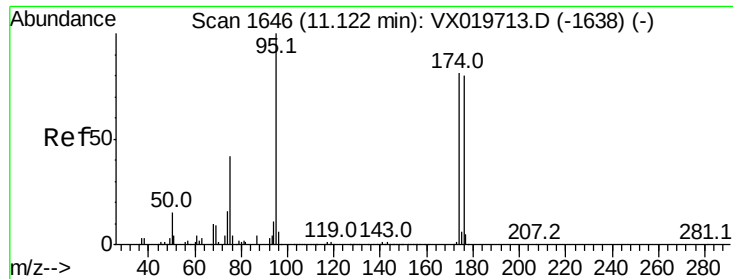
Tgt Ion: 43 Resp: 280321

Ion Ratio Lower Upper

43 100

58 20.7 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 45.562 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

4S1-D-BOTTOM

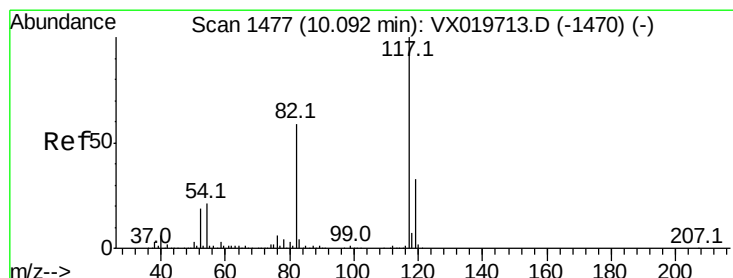
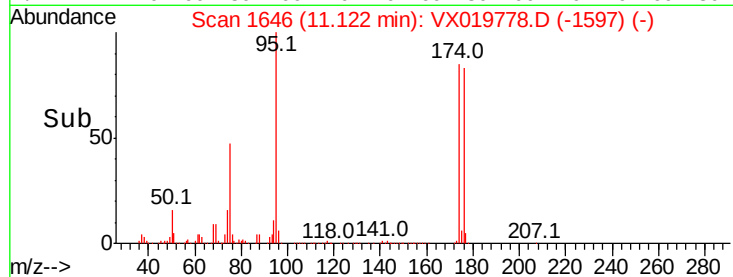
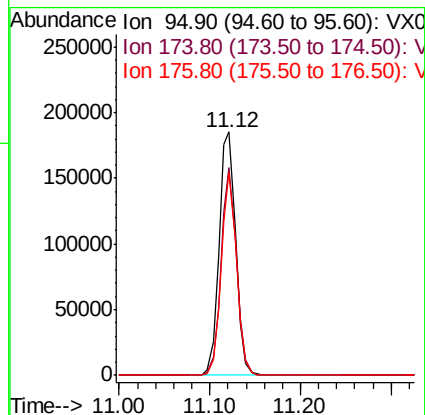
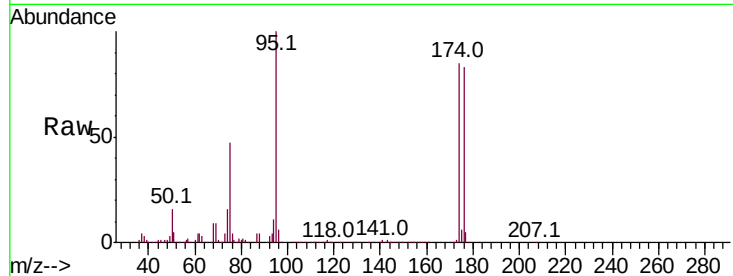
Tot Ion: 95 Resp: 236653

Ion Ratio Lower Upper

95 100

174 79.2 0.0 154.6

176 76.6 0.0 155.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

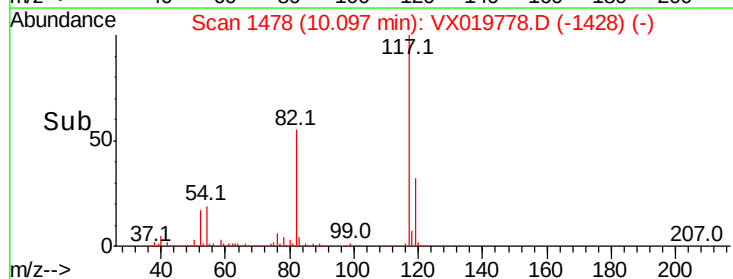
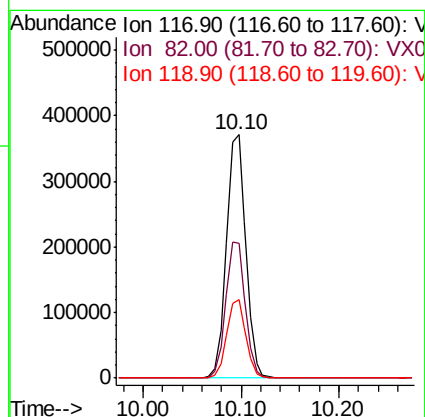
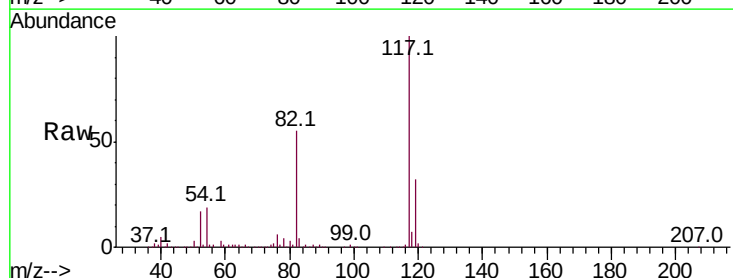
Tgt Ion: 117 Resp: 508553

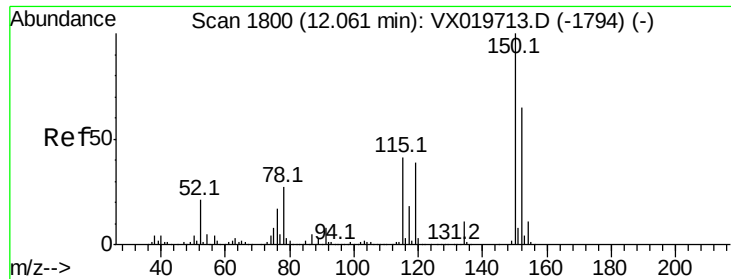
Ion Ratio Lower Upper

117 100

82 55.4 47.4 71.2

119 32.5 26.6 39.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

4S1-D-BOTTOM

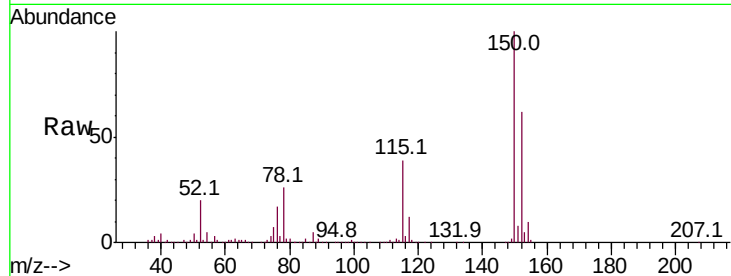
Tot Ion:152 Resp: 223985

Ion Ratio Lower Upper

152 100

115 59.7 41.1 123.3

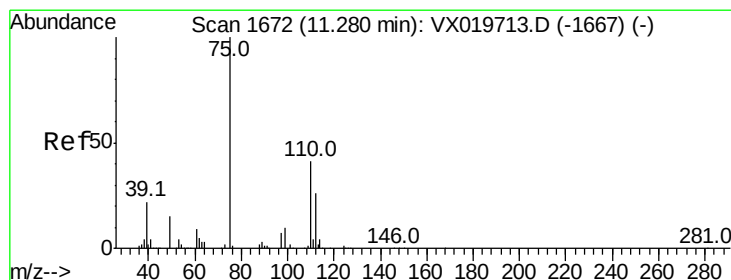
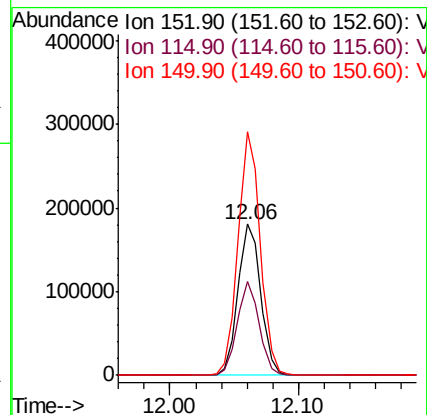
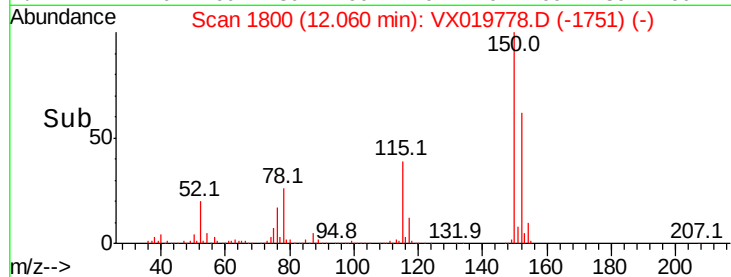
150 157.3 0.0 349.0



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: 22.768 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019778.D

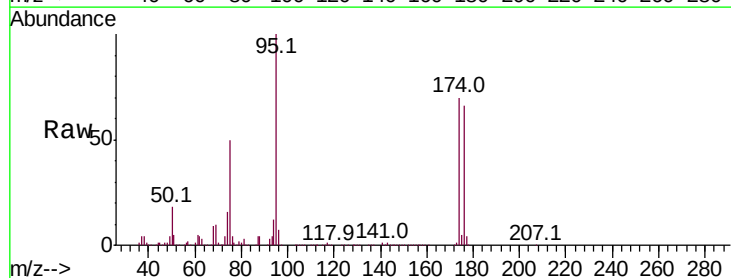
Acq: 09 Dec 2020 15:01

Tgt Ion: 75 Resp: 114378

Ion Ratio Lower Upper

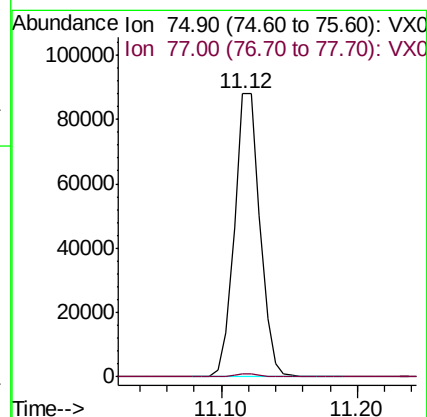
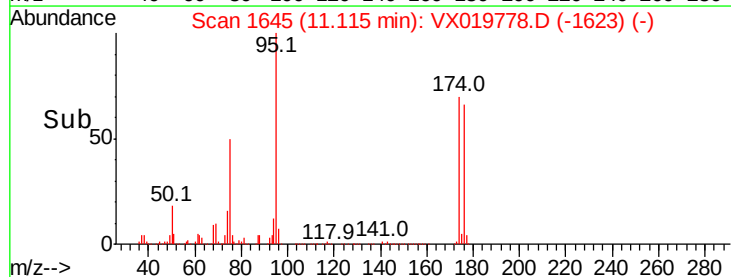
75 100

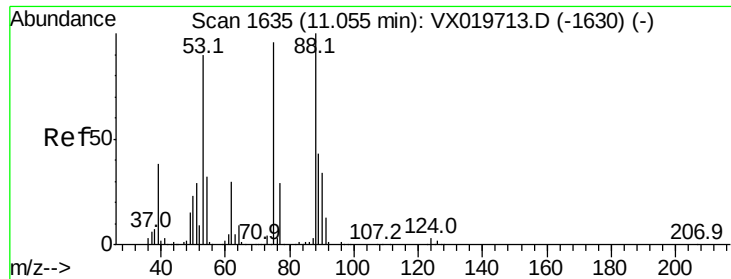
77 1.2 19.1 57.5#



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: 65.819 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019778.D

Acq: 09 Dec 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

4S1-D-BOTTOM

Tot Ion: 75 Resp: 114378

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

