

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019783.D
 Acq On : 09 Dec 2020 16:57
 Operator : JC/MD
 Sample : L4971-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-C-TOP

Quant Time: Dec 10 05:41:17 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	332623	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	547380	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	492579	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	212507	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	206459	47.23	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.46%
35) Dibromofluoromethane	5.46	113	166139	46.96	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.92%
50) Toluene-d8	8.70	98	664829	49.23	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.46%
62) 4-Bromofluorobenzene	11.12	95	229732	44.69	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.38%

Target Compounds

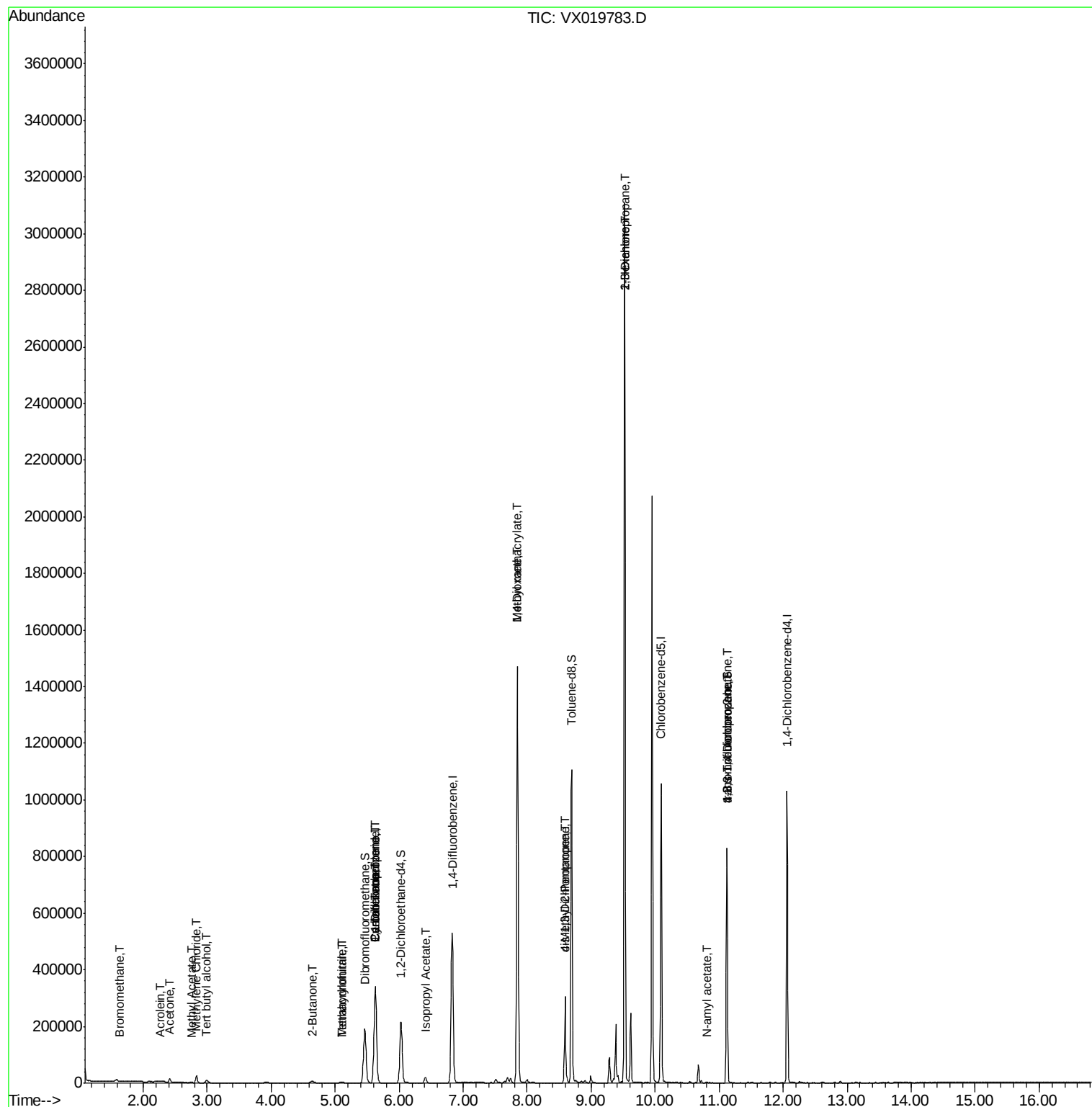
					Qvalue	
5) Bromomethane	1.63	94	608	0.485	ug/l	89
11) Tert butyl alcohol	2.99	59	5455	3.493	ug/l #	81
13) Acrolein	2.28	56	235	0.487	ug/l	89
16) Acetone	2.42	43	13850	8.429	ug/l	100
18) Methyl Acetate	2.75	43	1700	0.423	ug/l	90
20) Methylene Chloride	2.84	84	11843	1.786	ug/l	95
25) 2-Butanone	4.64	43	6462	2.559	ug/l	96
29) Tetrahydrofuran	5.10	42	2961	1.820	ug/l	93
31) Cyclohexane	5.63	56	6557	1.206	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	25009	5.056	ug/l #	48
38) Carbon Tetrachloride	5.62	117	31848	6.575	ug/l #	17
41) Methacrylonitrile	5.10	41	1723	0.628	ug/l #	43
43) Isopropyl Acetate	6.41	43	25877	3.187	ug/l	99
48) Methyl methacrylate	7.85	41	119810	30.003	ug/l #	36
49) 1,4-Dioxane	7.84	88	271	2.801	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	95772	19.320	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	50619	8.297	ug/l #	58
57) 1,3-Dichloropropane	9.52	76	28273	4.348	ug/l #	43
59) 2-Hexanone	9.52	43	330986	86.139	ug/l #	46
74) N-amyl acetate	10.80	43	1421	0.244	ug/l #	44
76) 1,2,3-Trichloropropane	11.12	75	109798	23.037	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	109798	66.596	ug/l #	12

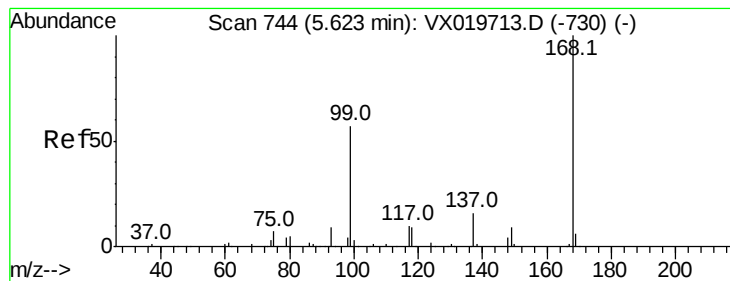
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX120920\
Data File : VX019783.D
Acq On : 09 Dec 2020 16:57
Operator : JC/MD
Sample : L4971-08
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
5S1-C-TOP

Quant Time: Dec 10 05:41:17 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# 745

Delta R.T. 0.01 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

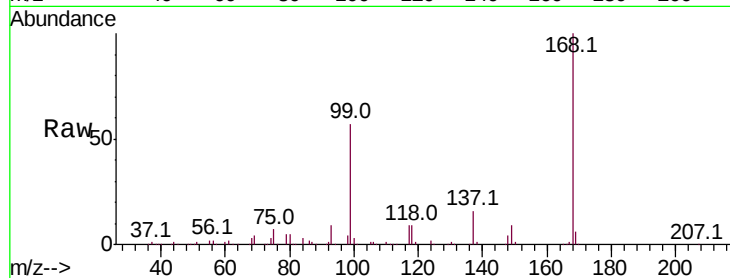
5S1-C-TOP

Tot Ion:168 Resp: 332623

Ion Ratio Lower Upper

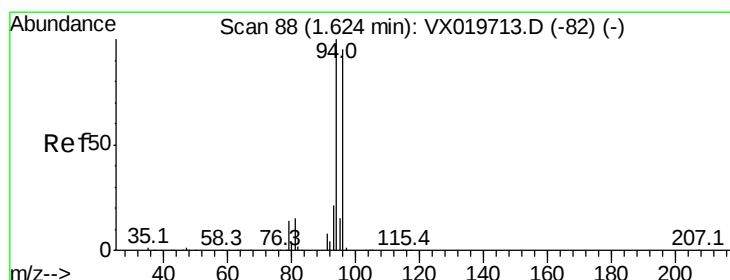
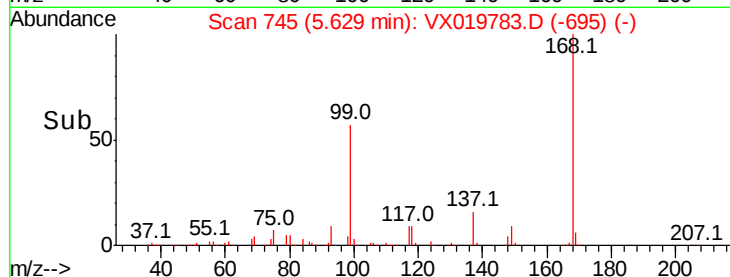
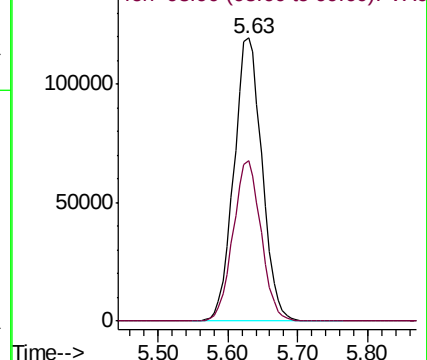
168 100

99 56.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.485 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019783.D

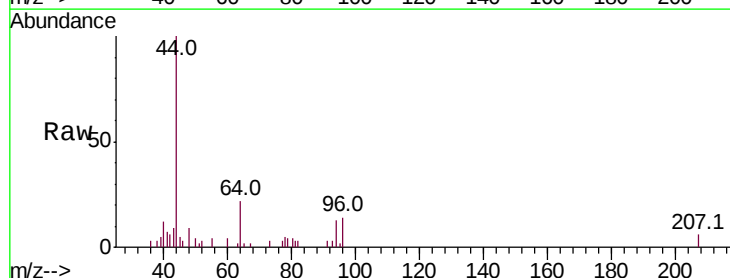
Acq: 09 Dec 2020 16:57

Tgt Ion: 94 Resp: 608

Ion Ratio Lower Upper

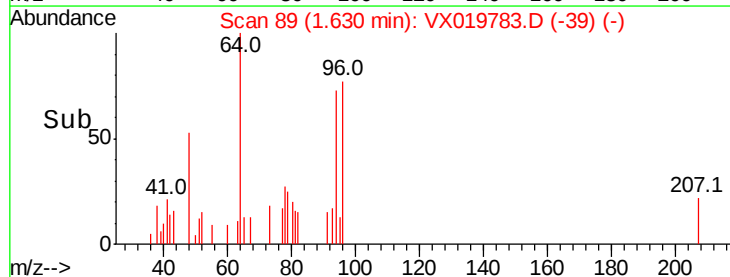
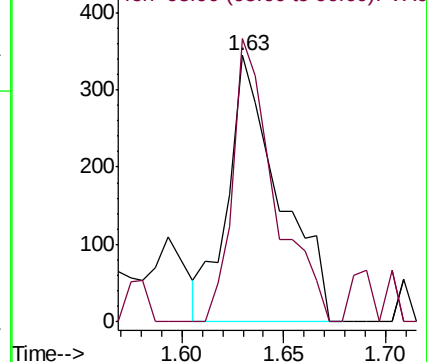
94 100

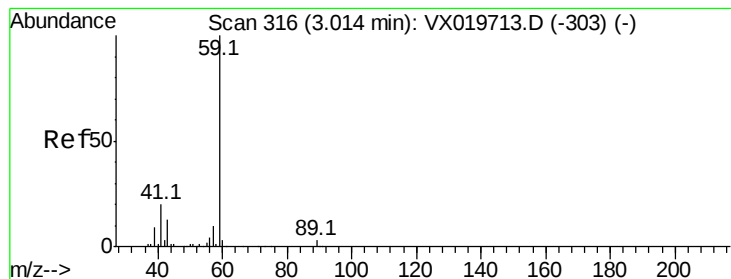
96 106.4 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



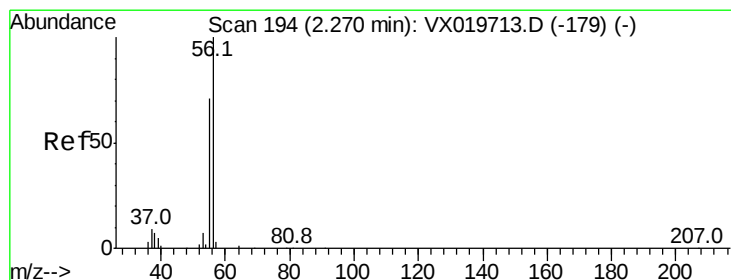
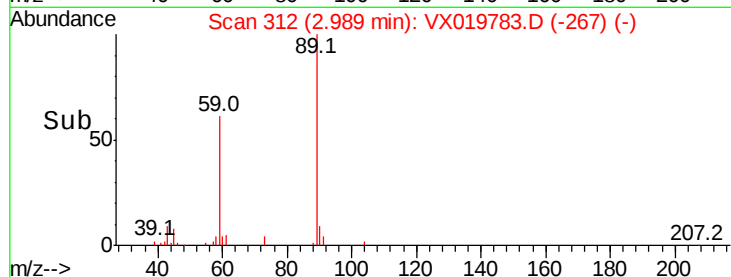
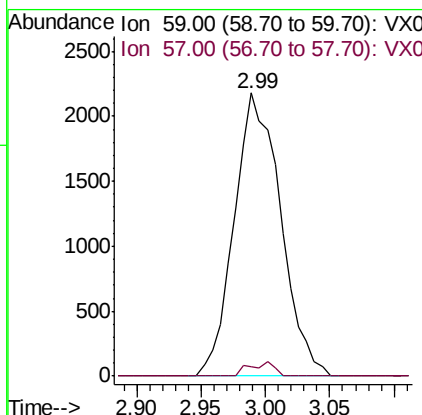
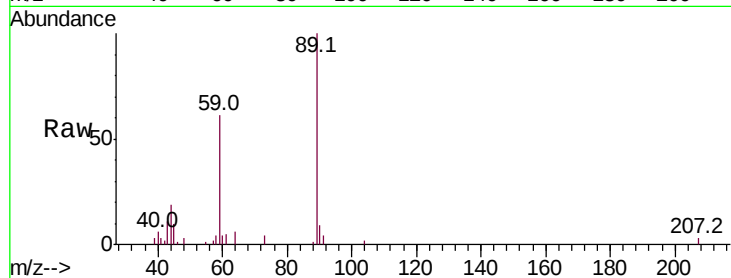


#11

Tert butyl alcohol
 Concen: 3.493 ug/l
 RT: 2.99 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX019783.D
 Acq: 09 Dec 2020 16:57

Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-C-TOP

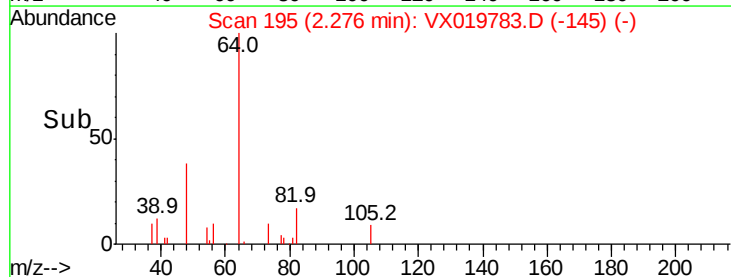
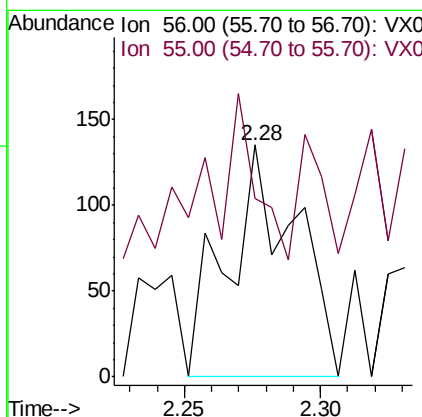
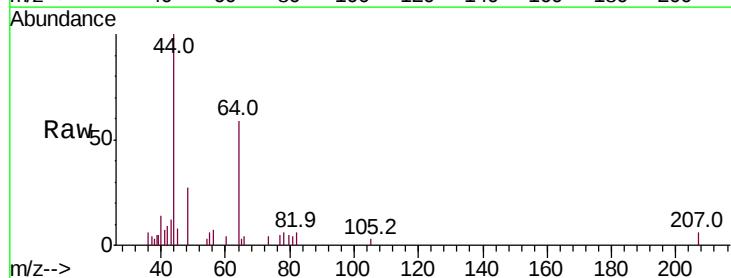
Tot Ion: 59 Resp: 5455
 Ion Ratio Lower Upper
 59 100
 57 2.7 7.8 11.8#

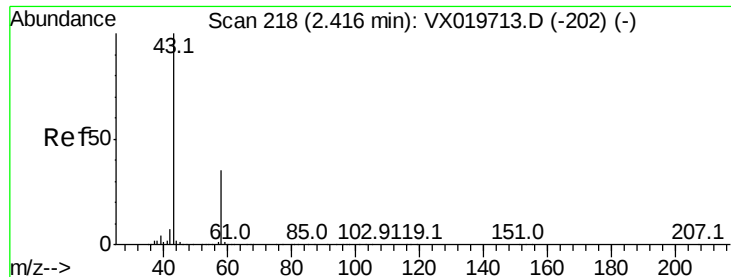


#13

Acrolein
 Concen: 0.487 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.01 min
 Lab File: VX019783.D
 Acq: 09 Dec 2020 16:57

Tgt Ion: 56 Resp: 235
 Ion Ratio Lower Upper
 56 100
 55 61.7 56.4 84.6





#16

Acetone

Concen: 8.429 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

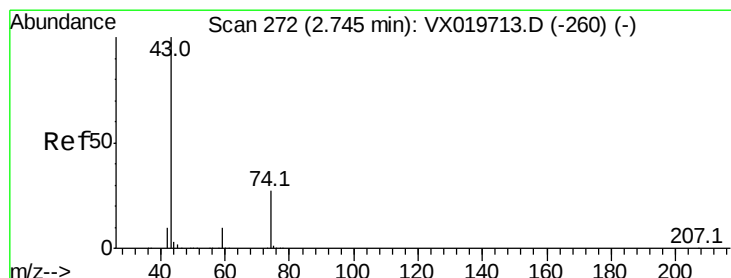
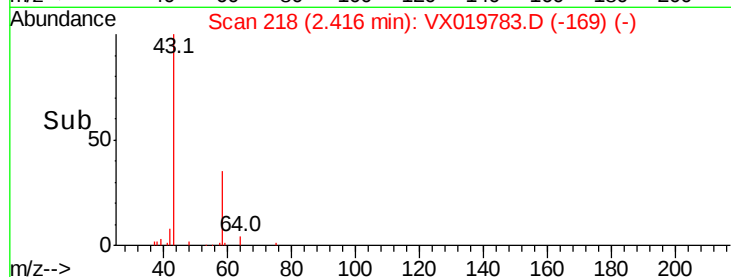
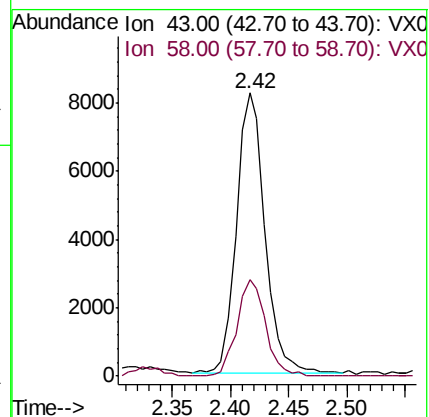
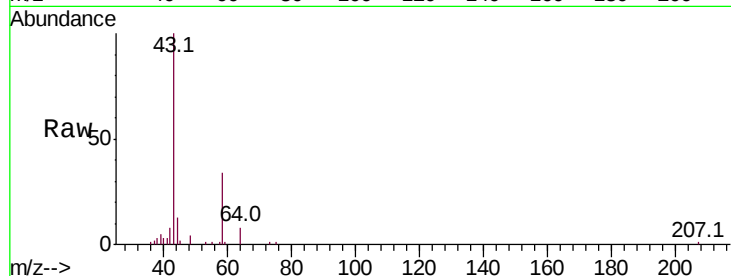
5S1-C-TOP

Tot Ion: 43 Resp: 13850

Ion Ratio Lower Upper

43 100

58 34.5 27.8 41.8



#18

Methyl Acetate

Concen: 0.423 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX019783.D

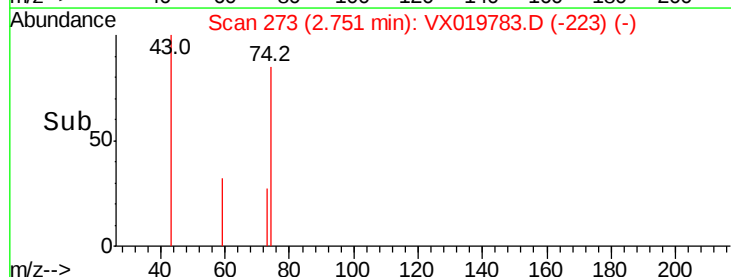
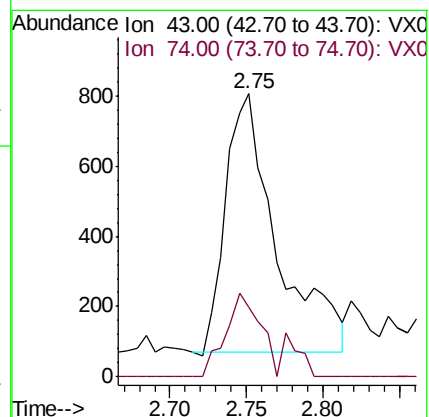
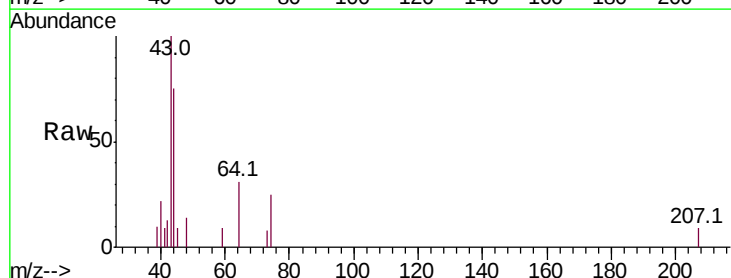
Acq: 09 Dec 2020 16:57

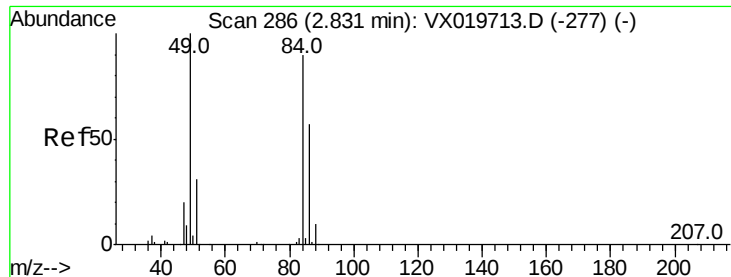
Tgt Ion: 43 Resp: 1700

Ion Ratio Lower Upper

43 100

74 22.1 21.9 32.9

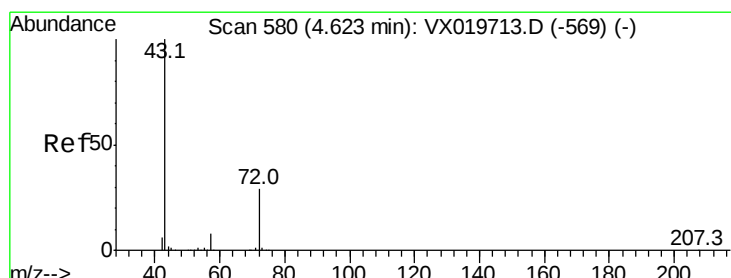
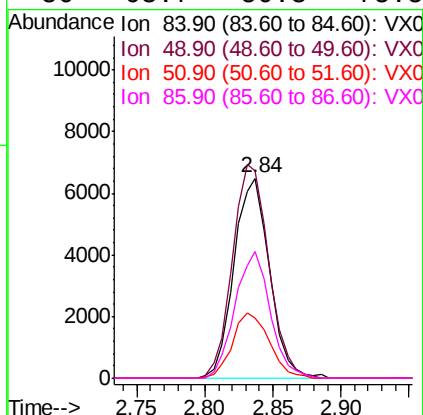
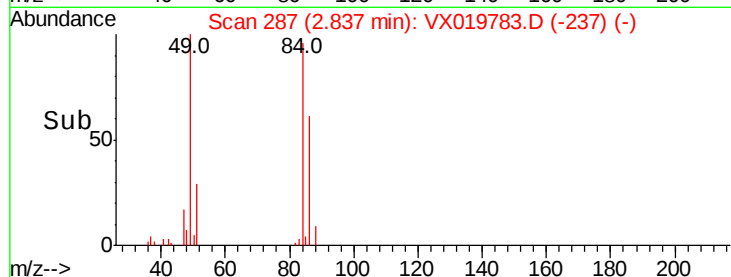
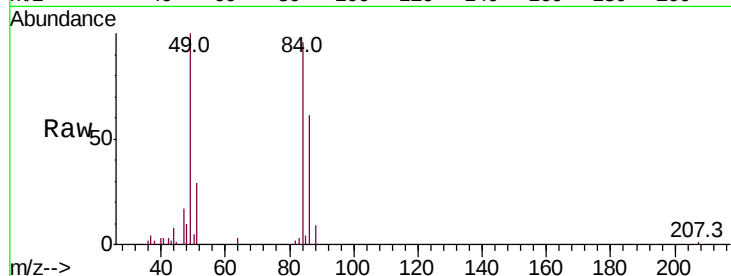




#20
Methvlene Chloride
Concen: 1.786 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019783.D
Acq: 09 Dec 2020 16:57

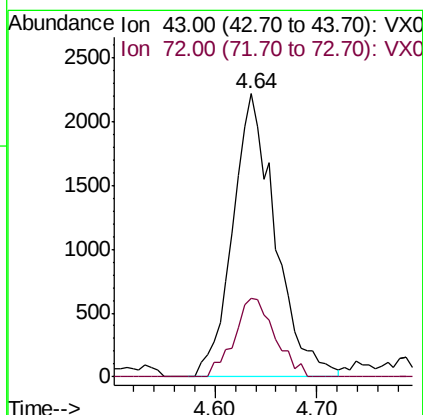
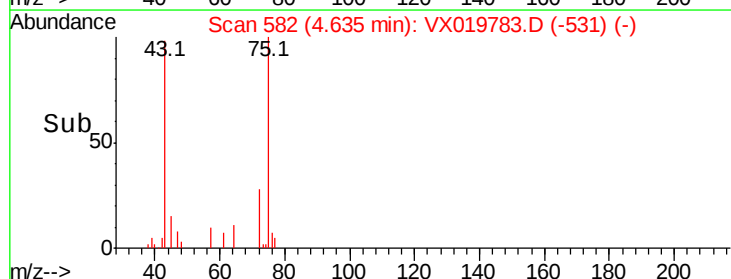
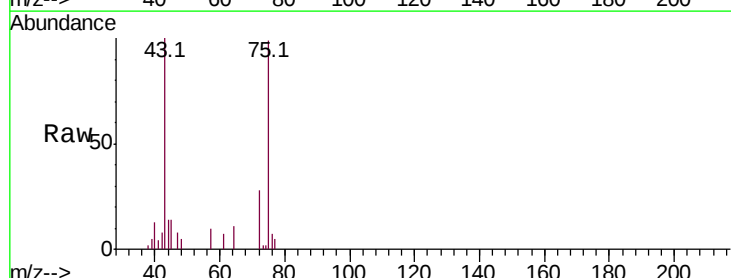
Instrument :
MSVOA_X
ClientSampled :
5S1-C-TOP

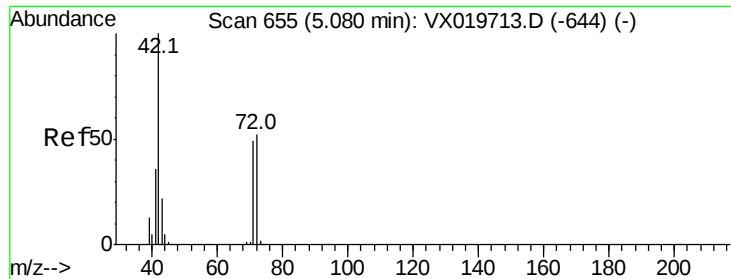
Tot Ion: 84 Resp: 11843
Ion Ratio Lower Upper
84 100
49 103.7 88.6 132.8
51 29.9 27.0 40.6
86 63.7 50.3 75.5



#25
2-Butanone
Concen: 2.559 ug/l
RT: 4.64 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX019783.D
Acq: 09 Dec 2020 16:57

Tgt Ion: 43 Resp: 6462
Ion Ratio Lower Upper
43 100
72 27.5 23.7 35.5





#29

Tetrahydrofuran

Concen: 1.820 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.02 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

5S1-C-TOP

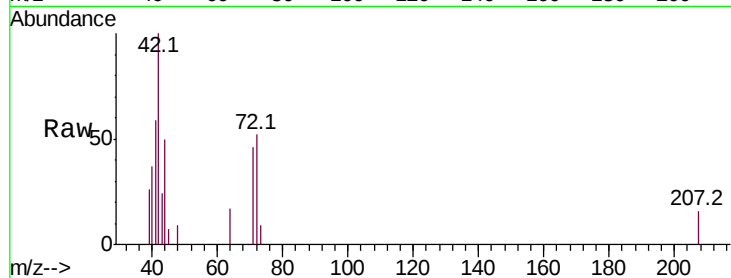
Tot Ion: 42 Resp: 2961

Ion Ratio Lower Upper

42 100

72 45.4 41.7 62.5

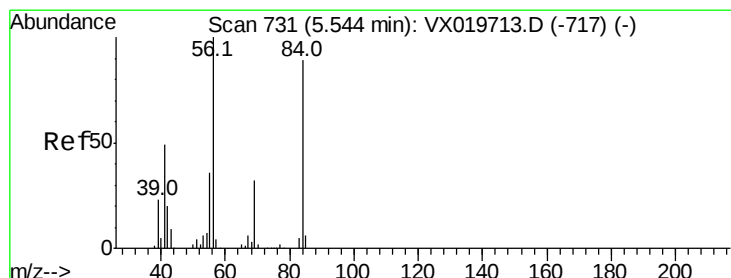
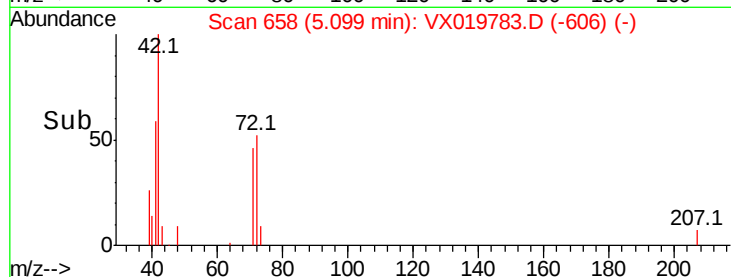
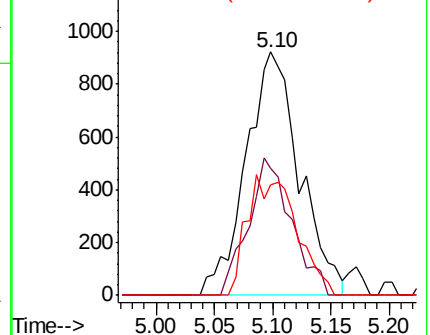
71 45.1 38.4 57.6



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: 1.206 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

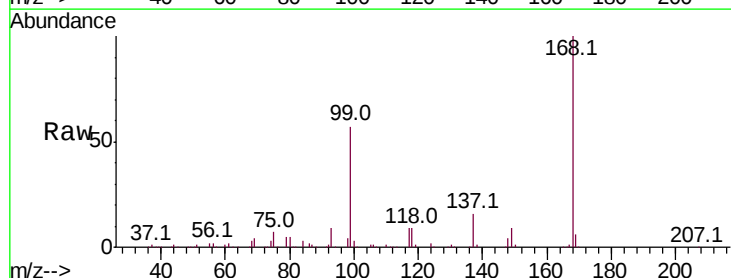
Tgt Ion: 56 Resp: 6557

Ion Ratio Lower Upper

56 100

69 206.1 25.3 37.9#

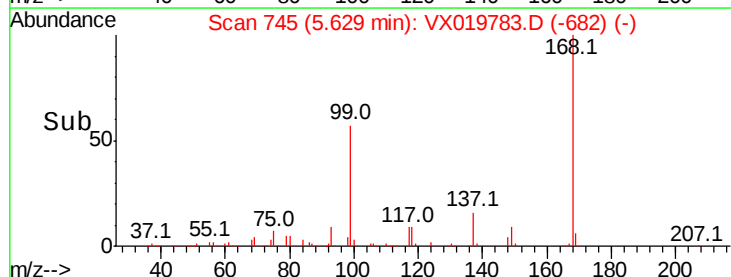
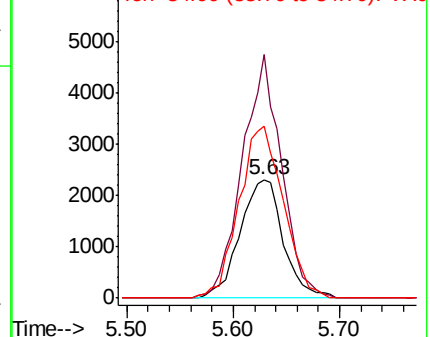
84 145.3 71.4 107.0#

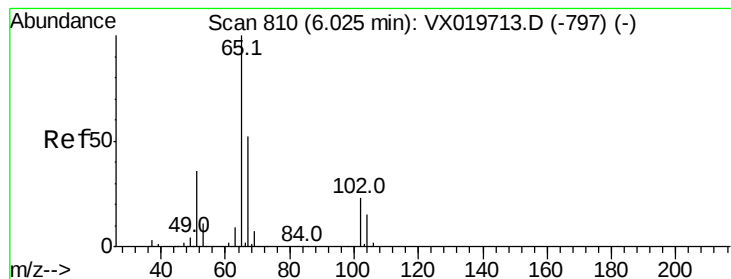


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.227 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

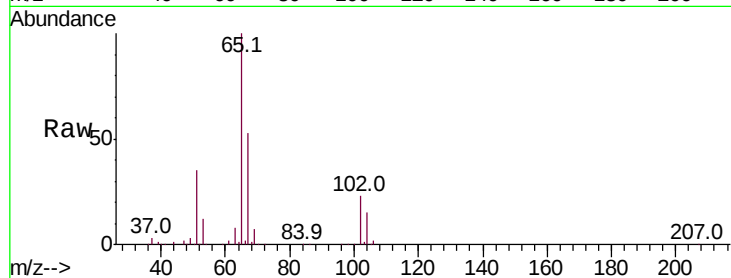
5S1-C-TOP

Tot Ion: 65 Resp: 206459

Ion Ratio Lower Upper

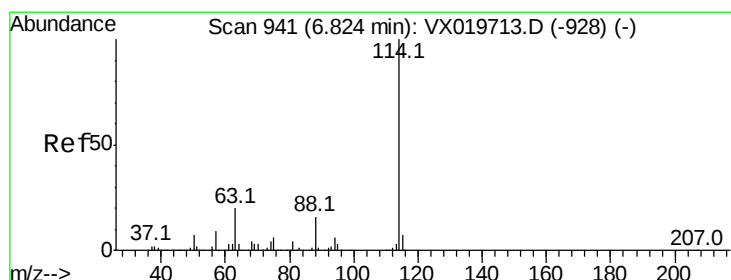
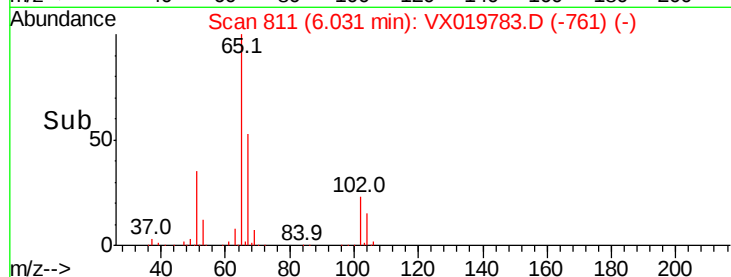
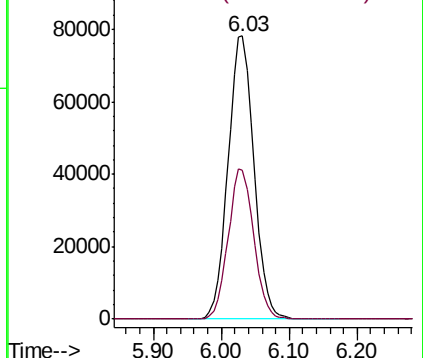
65 100

67 52.5 0.0 105.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

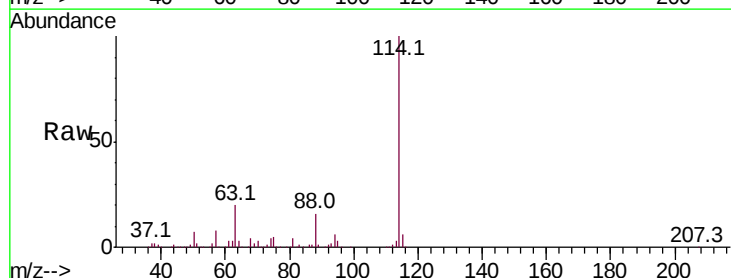
Tgt Ion: 114 Resp: 547380

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.8

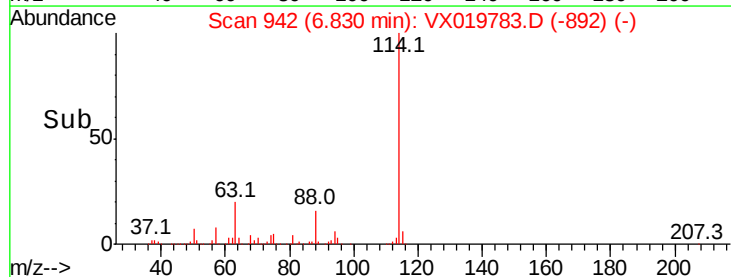
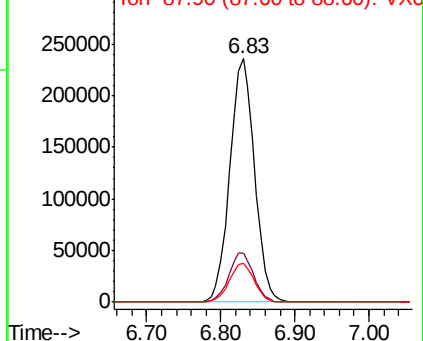
88 16.1 0.0 32.8

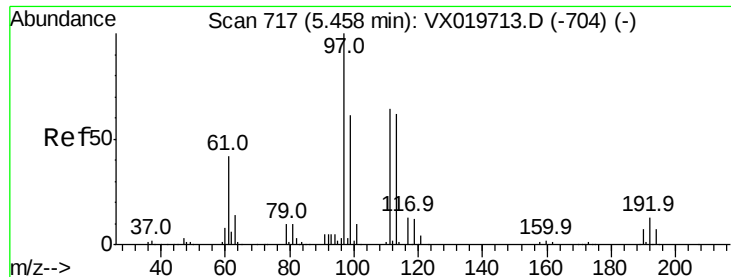


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.963 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

5S1-C-TOP

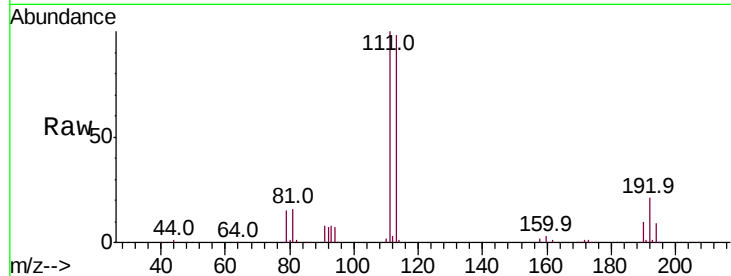
Tot Ion:113 Resp: 166139

Ion Ratio Lower Upper

113 100

111 103.6 81.9 122.9

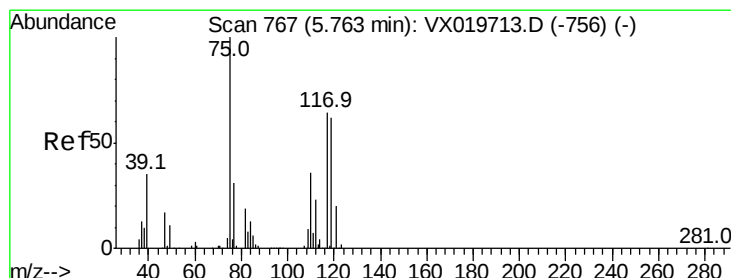
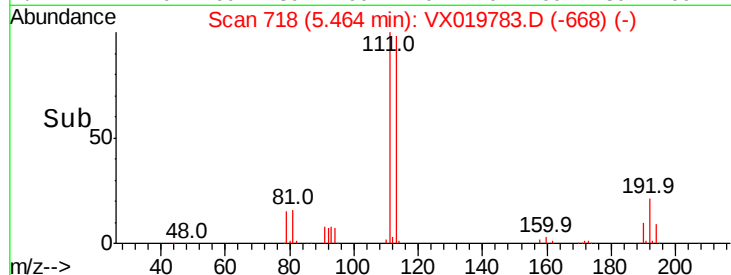
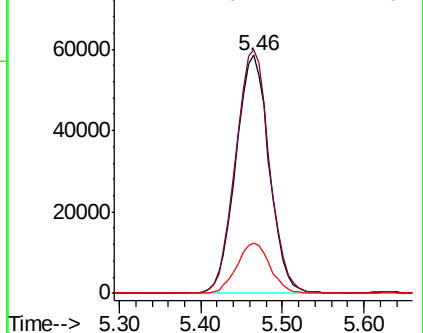
192 21.0 16.7 25.1



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: 5.056 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

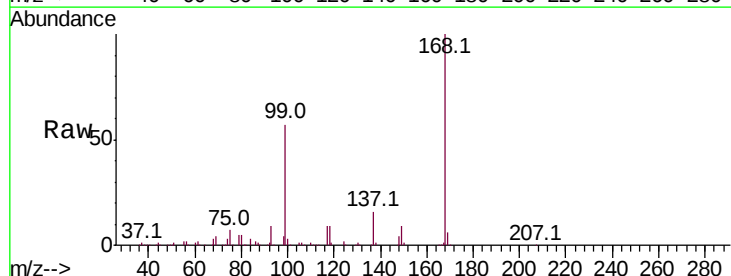
Tgt Ion: 75 Resp: 25009

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.4#

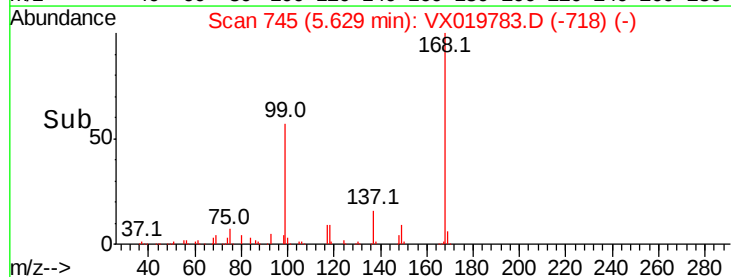
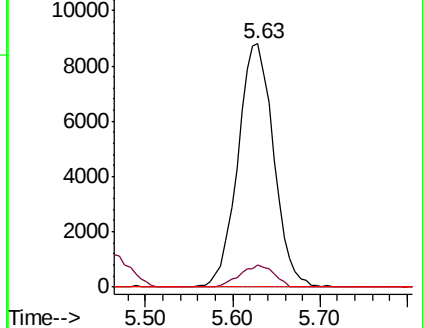
77 0.0 25.3 37.9#

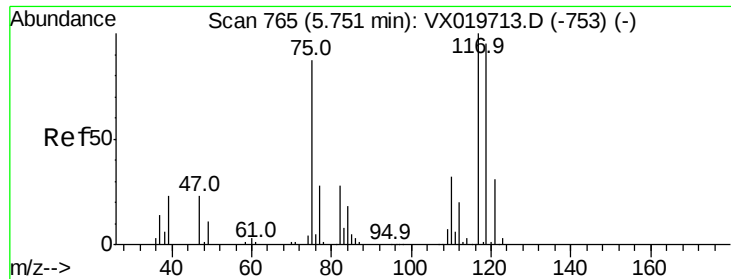


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

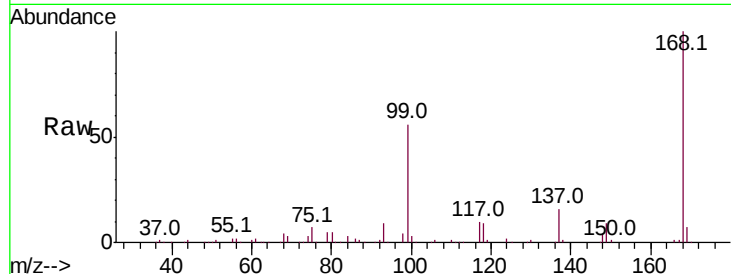




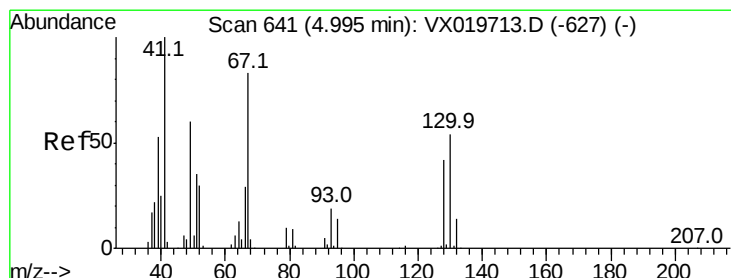
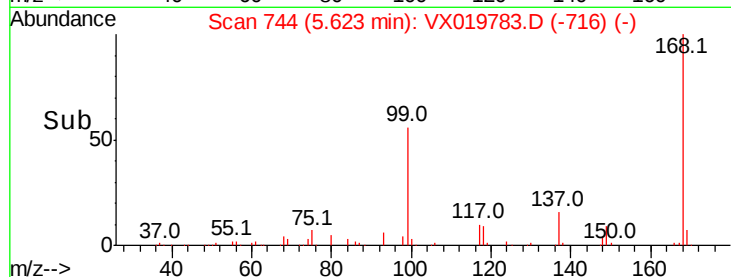
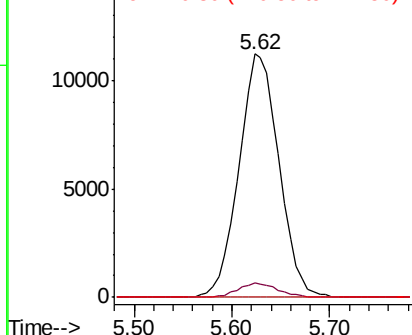
#38
Carbon Tetrachloride
Concen: 6.575 ug/l
RT: 5.62 min Scan# 744
Delta R.T. -0.13 min
Lab File: VX019783.D
Acq: 09 Dec 2020 16:57

Instrument :
MSVOA_X
ClientSampleId :
5S1-C-TOP

Tot Ion:117 Resp: 31848
Ion Ratio Lower Upper
117 100
119 5.8 76.2 114.2#
121 0.0 24.8 37.2#

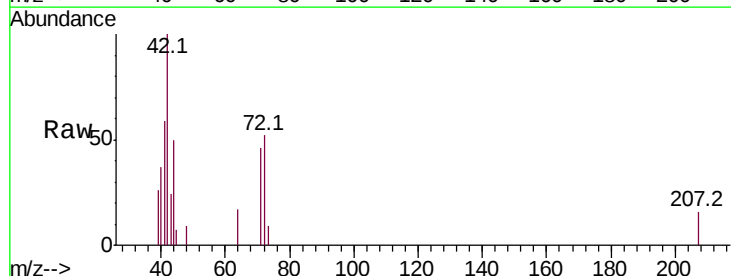


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

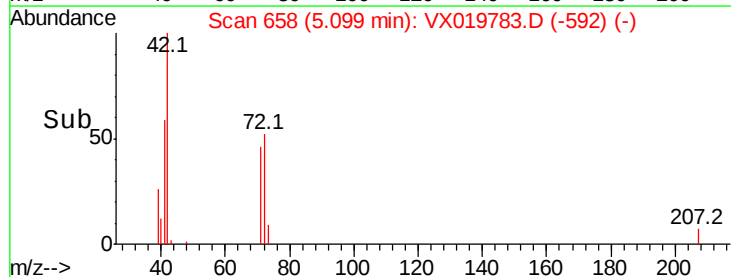
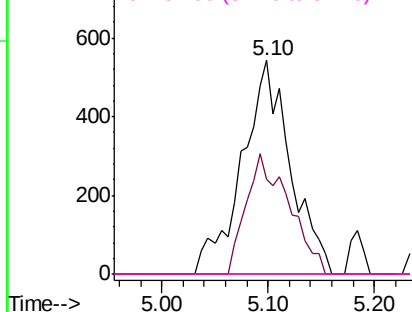


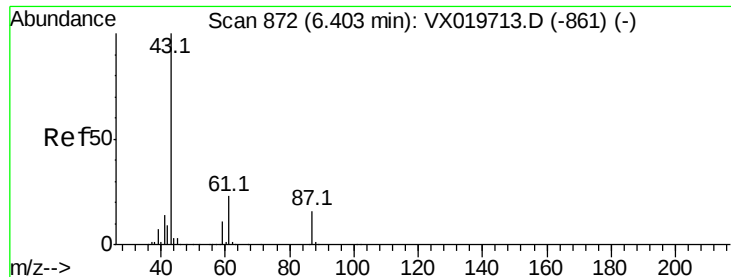
#41
Methacrylonitrile
Concen: 0.628 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.10 min
Lab File: VX019783.D
Acq: 09 Dec 2020 16:57

Tgt Ion: 41 Resp: 1723
Ion Ratio Lower Upper
41 100
39 50.1 42.5 63.7
67 0.0 65.0 97.6#
52 0.0 25.3 37.9#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 3.187 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Instrument :

MSVOA_X

ClientSampled :

5S1-C-TOP

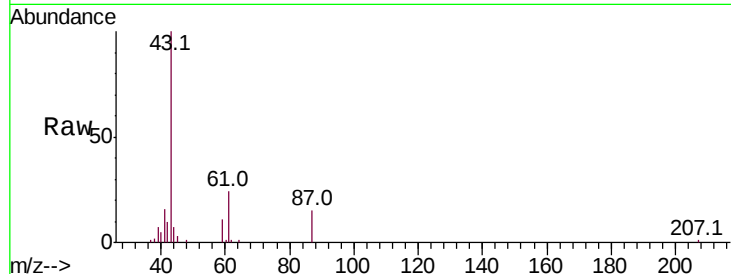
Tot Ion: 43 Resp: 25877

Ion Ratio Lower Upper

43 100

61 22.4 18.2 27.4

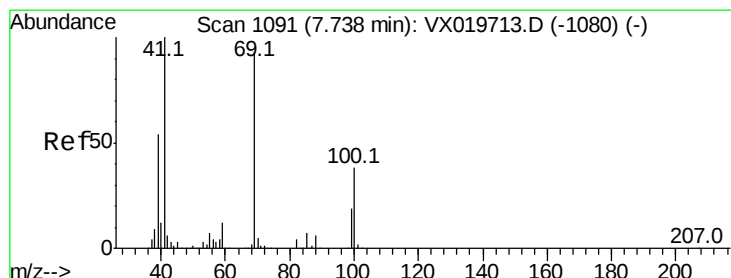
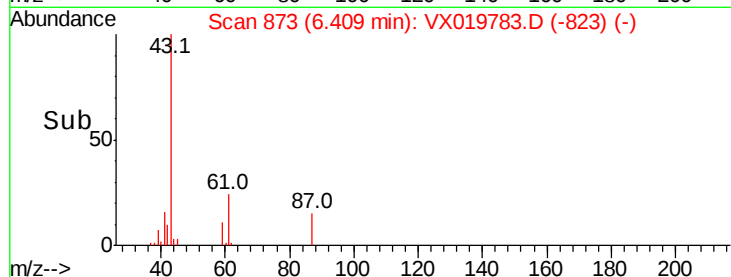
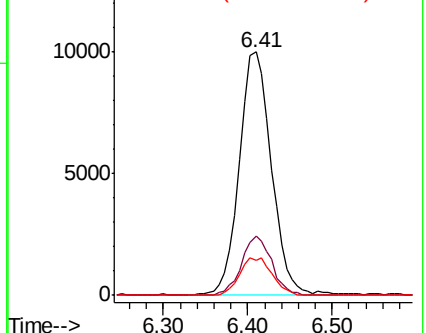
87 15.5 12.5 18.7



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: 30.003 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.11 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

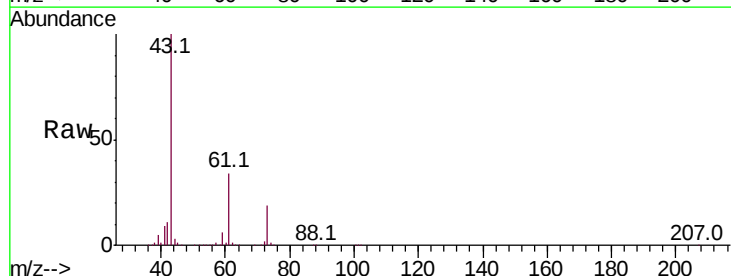
Tgt Ion: 41 Resp: 119810

Ion Ratio Lower Upper

41 100

69 0.2 76.0 114.0#

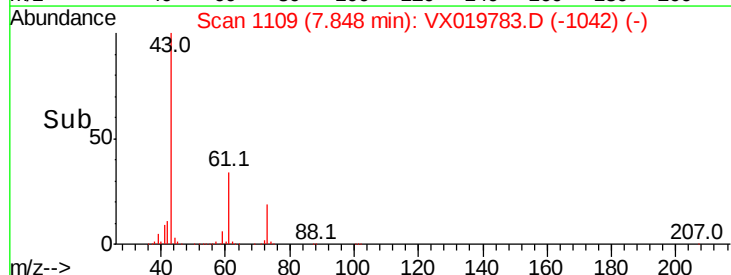
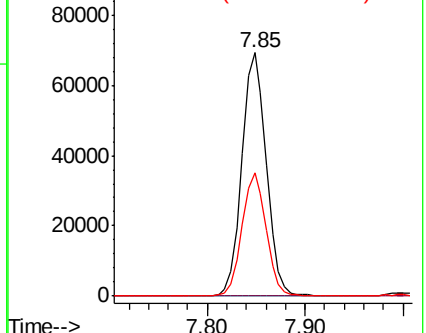
39 50.3 44.6 67.0

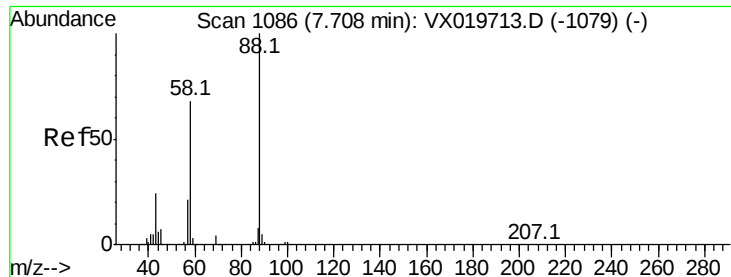


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.801 ug/l

RT: 7.84 min Scan# 1108

Delta R.T. 0.13 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

5S1-C-TOP

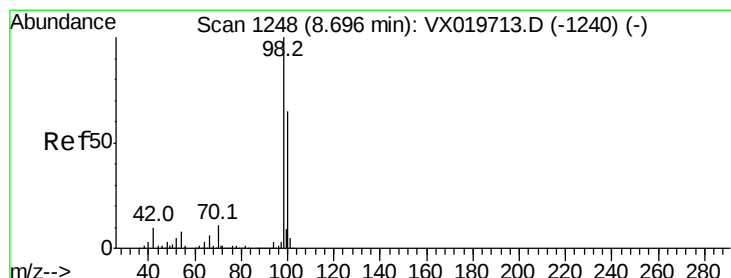
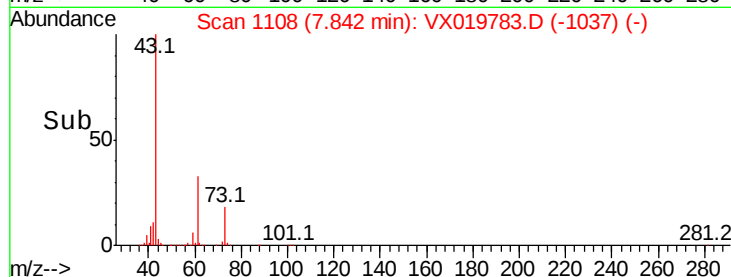
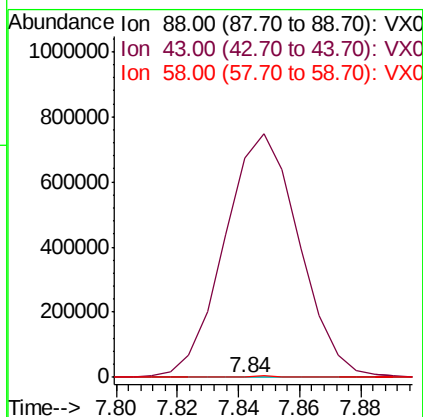
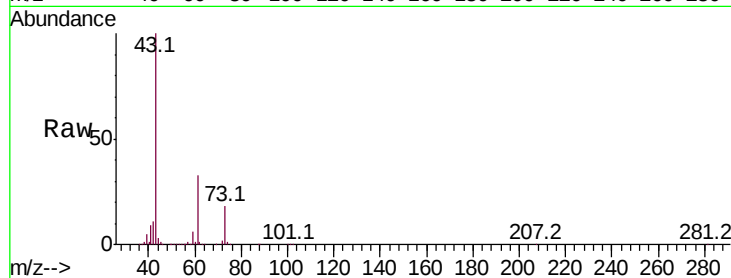
Tot Ion: 88 Resp: 271

Ion Ratio Lower Upper

88 100

43 470233.2 23.2 34.8#

58 2472.3 55.0 82.4#



#50

Toluene-d8

Concen: 49.226 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019783.D

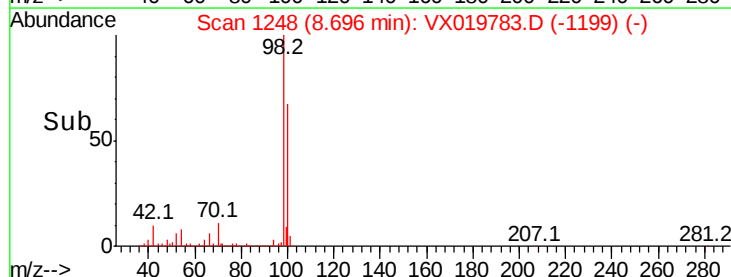
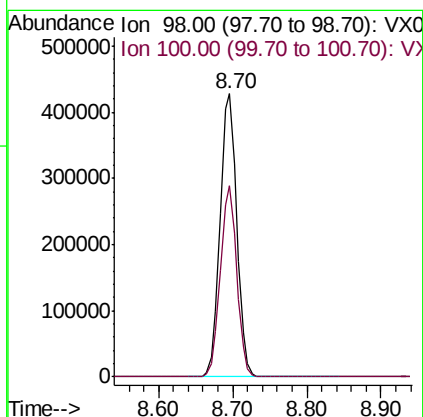
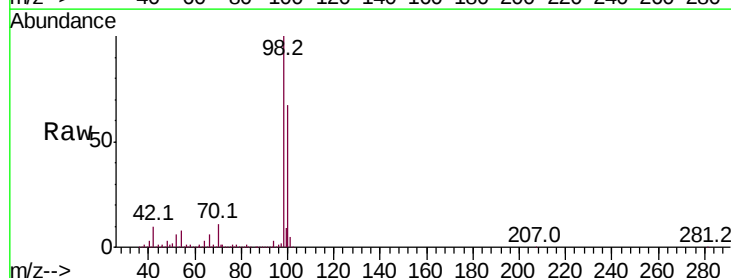
Acq: 09 Dec 2020 16:57

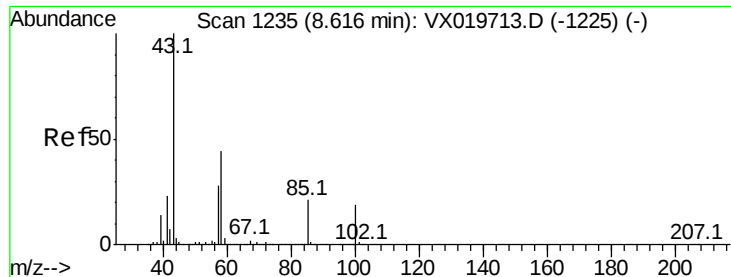
Tgt Ion: 98 Resp: 664829

Ion Ratio Lower Upper

98 100

100 66.1 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 19.320 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

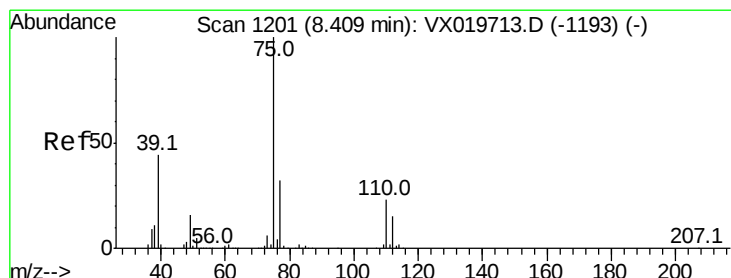
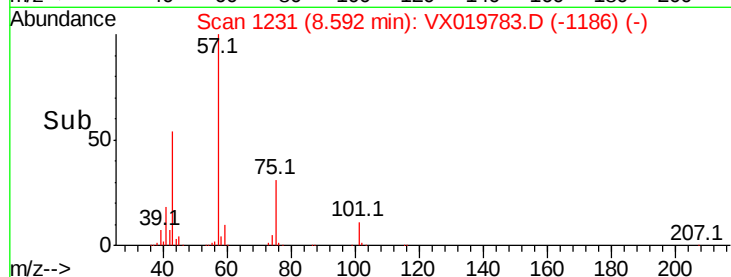
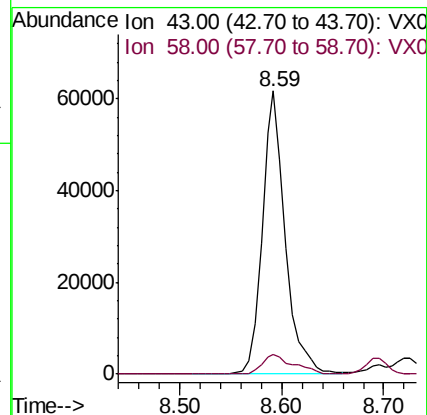
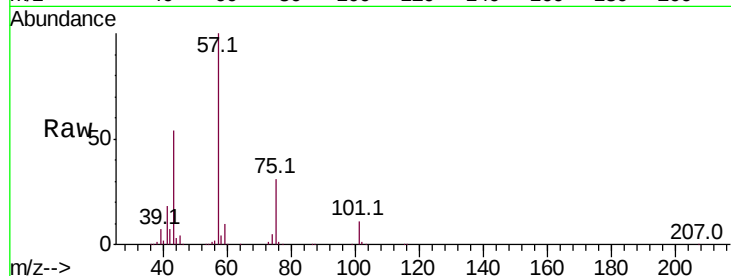
5S1-C-TOP

Tot Ion: 43 Resp: 95772

Ion Ratio Lower Upper

43 100

58 9.6 35.4 53.0#



#54

cis-1,3-Dichloropropene

Concen: 8.297 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

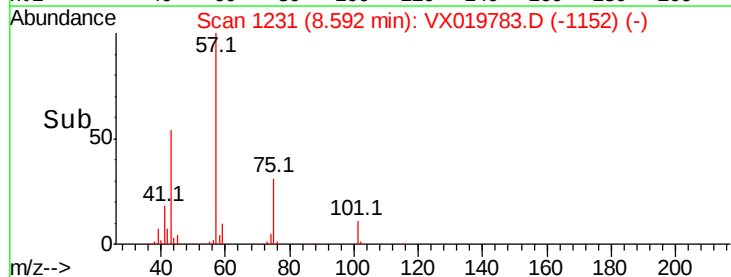
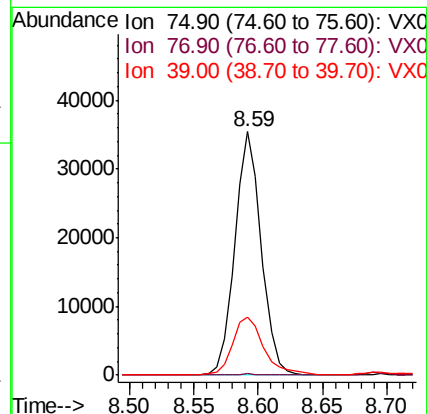
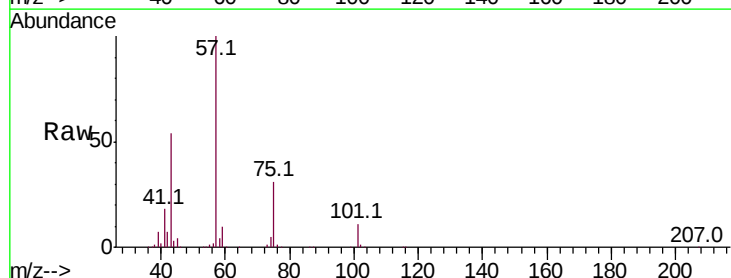
Tgt Ion: 75 Resp: 50619

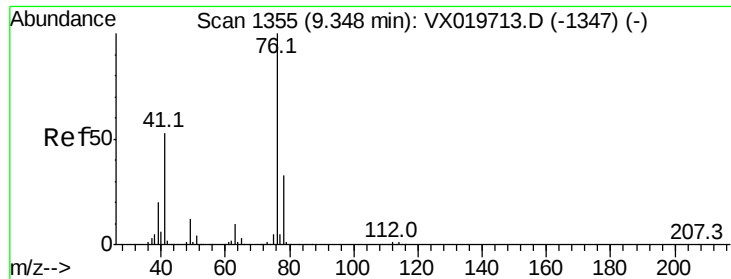
Ion Ratio Lower Upper

75 100

77 0.5 25.7 38.5#

39 23.8 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 4.348 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

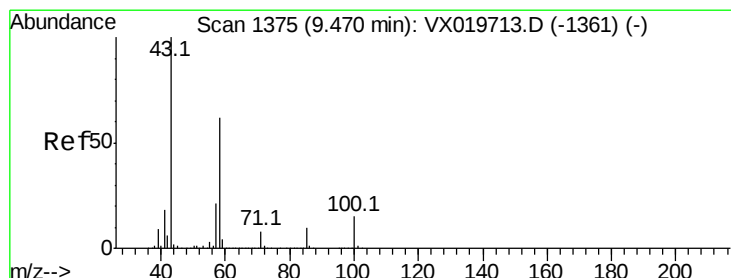
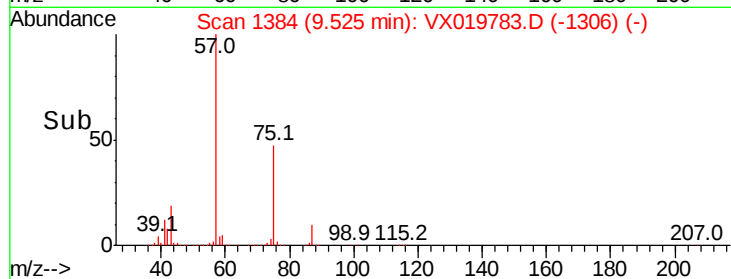
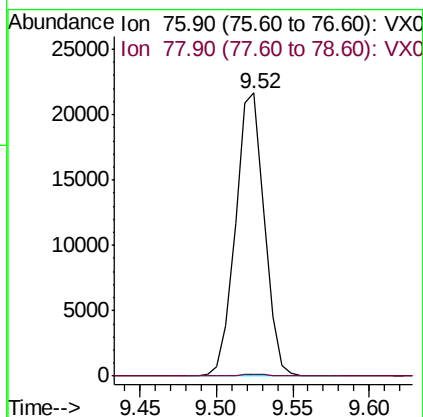
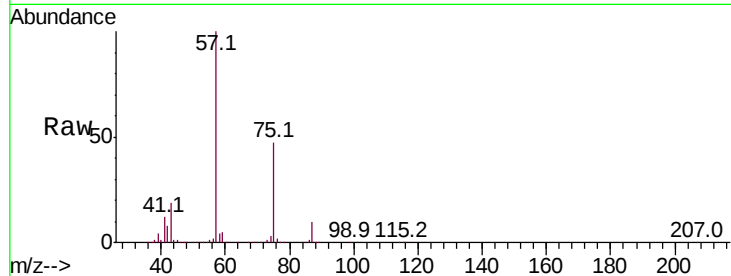
5S1-C-TOP

Tot Ion: 76 Resp: 28273

Ion Ratio Lower Upper

76 100

78 0.5 26.2 39.2#



#59

2-Hexanone

Concen: 86.139 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019783.D

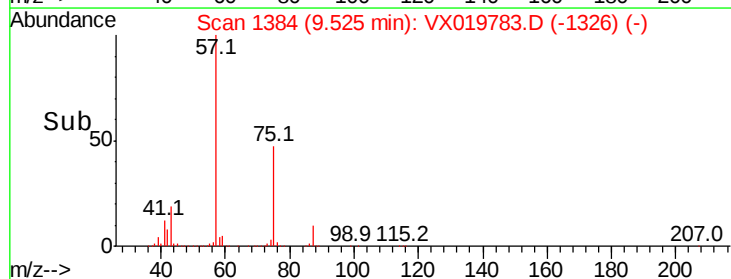
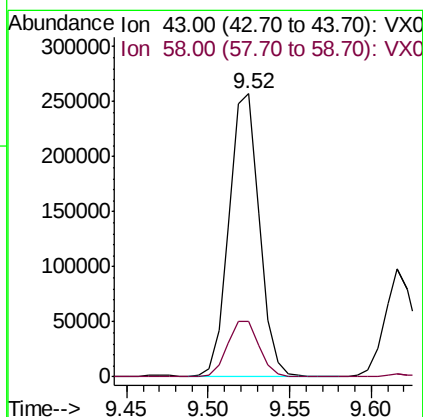
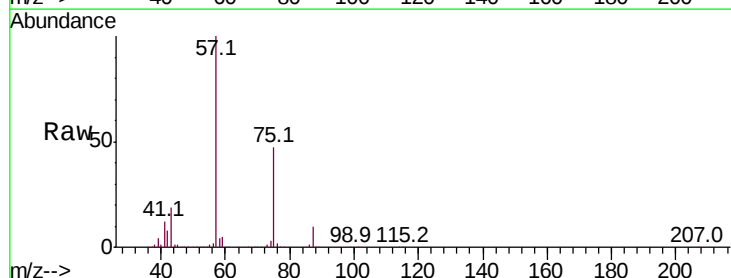
Acq: 09 Dec 2020 16:57

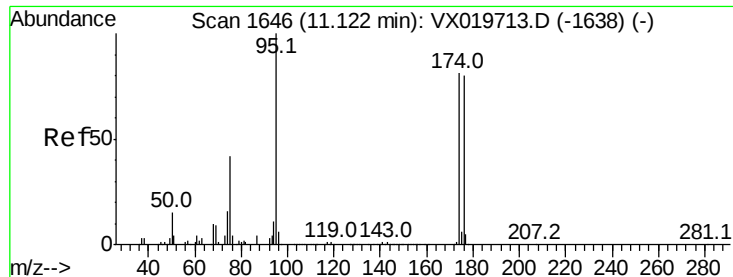
Tgt Ion: 43 Resp: 330986

Ion Ratio Lower Upper

43 100

58 20.5 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 44.691 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

5S1-C-TOP

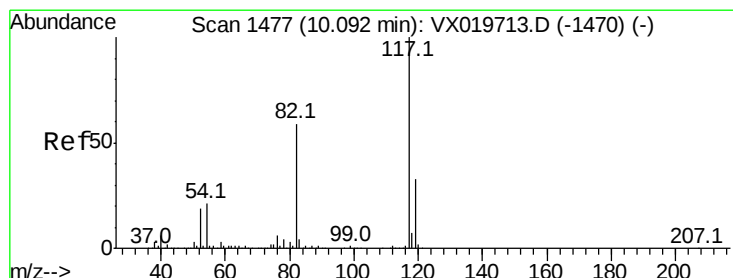
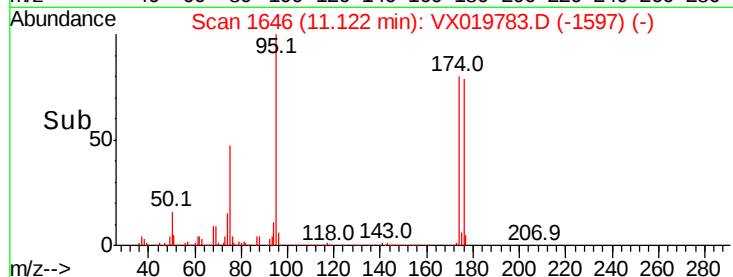
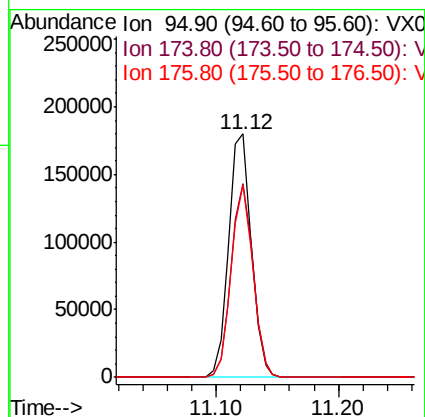
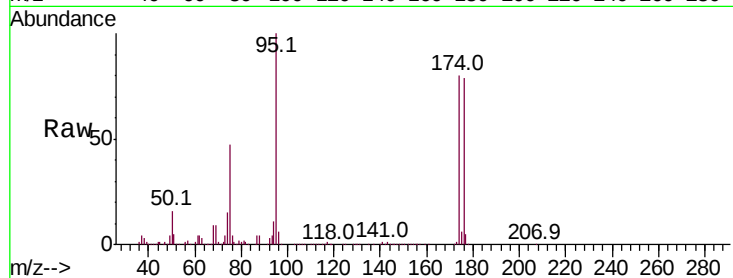
Tot Ion: 95 Resp: 229732

Ion Ratio Lower Upper

95 100

174 77.2 0.0 154.6

176 75.5 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: VX019783.D

Acq: 09 Dec 2020 16:57

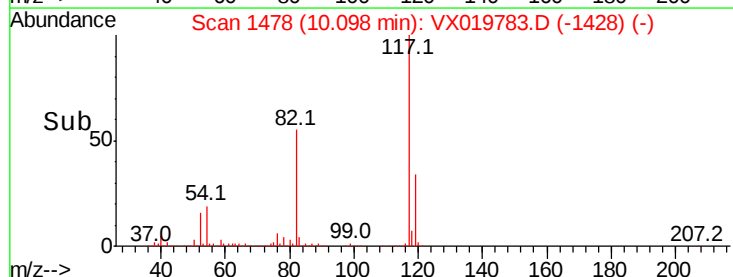
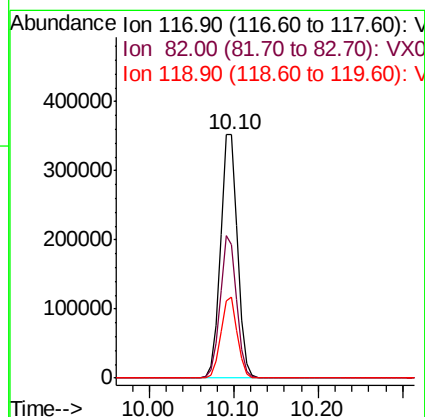
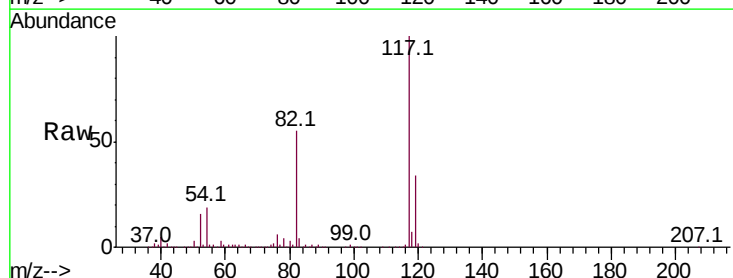
Tgt Ion: 117 Resp: 492579

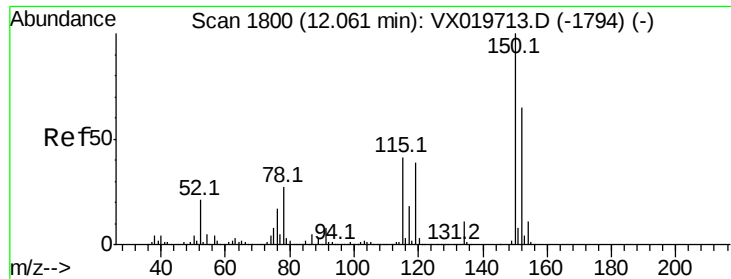
Ion Ratio Lower Upper

117 100

82 55.0 47.4 71.2

119 33.5 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: VX019783.D

Acq: 09 Dec 2020 16:57

Instrument :

MSVOA_X

ClientSampled :

5S1-C-TOP

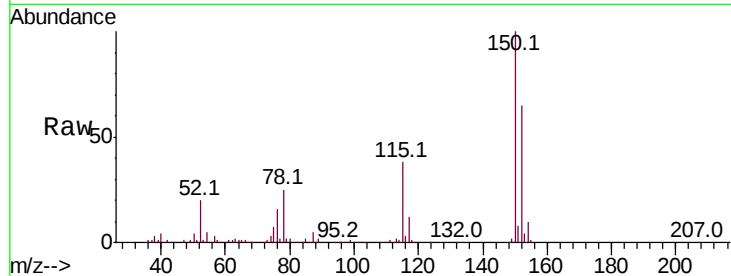
Tot Ion:152 Resp: 212507

Ion Ratio Lower Upper

152 100

115 59.0 41.1 123.3

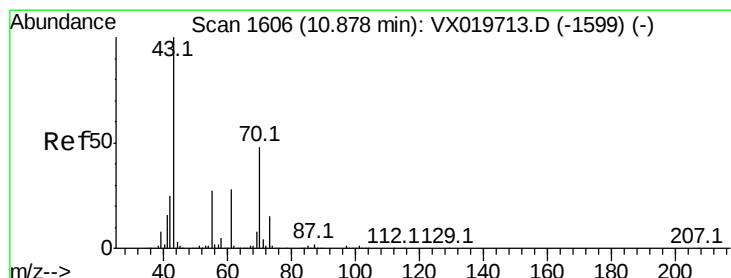
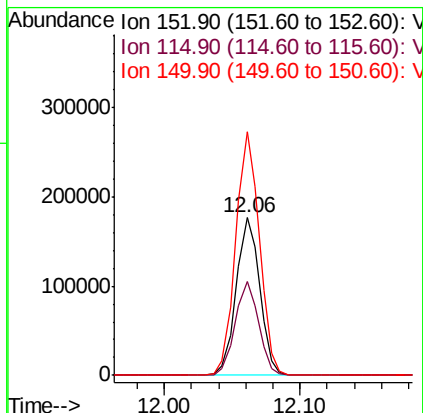
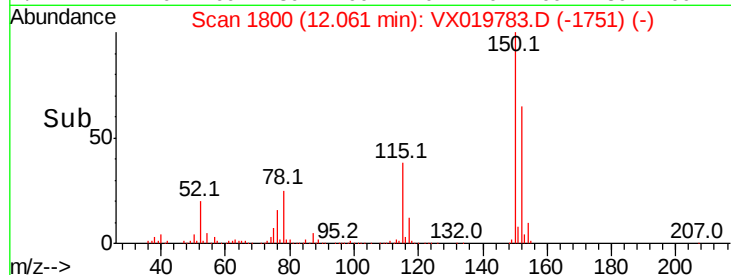
150 155.6 0.0 349.0



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



#74

N-ethyl acetate

Concen: 0.244 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Tgt Ion: 43 Resp: 1421

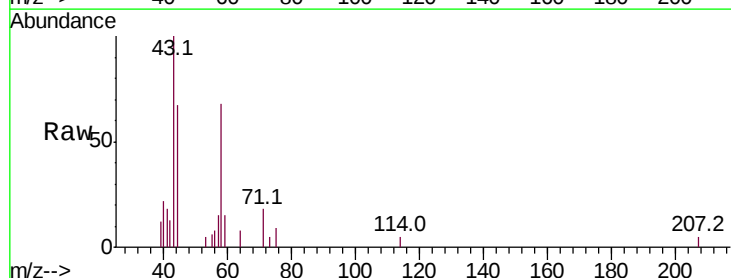
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 10.4 21.5 32.3#

61 0.0 22.1 33.1#

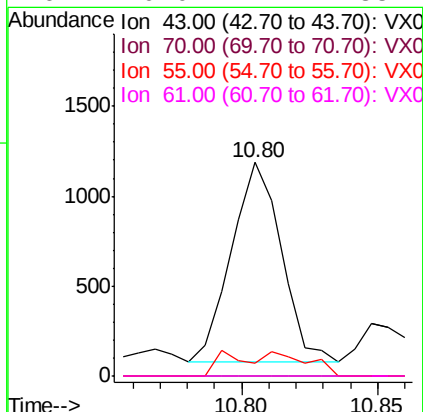
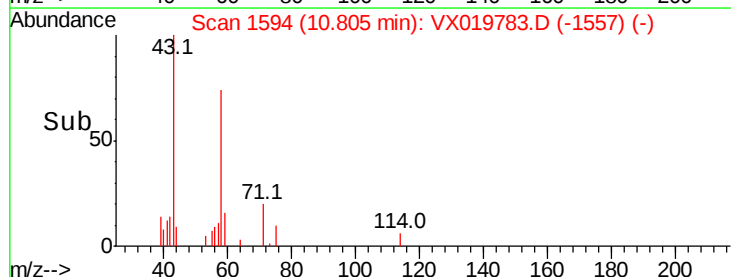


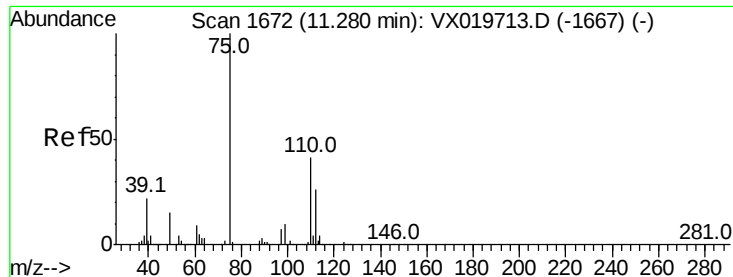
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 23.037 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

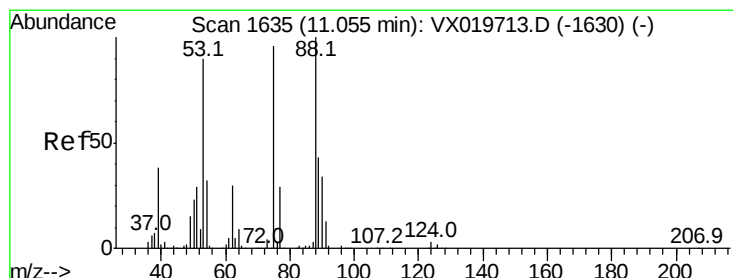
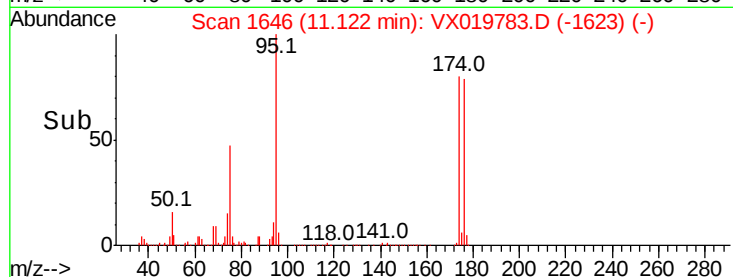
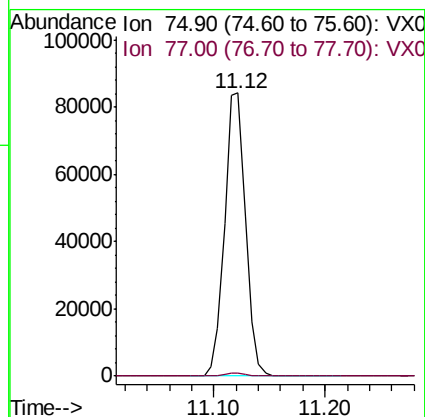
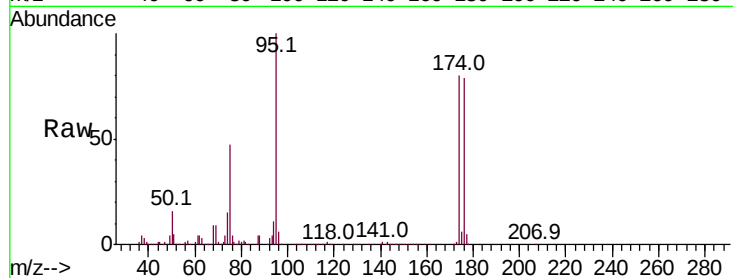
5S1-C-TOP

Tot Ion: 75 Resp: 109798

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.596 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019783.D

Acq: 09 Dec 2020 16:57

Tgt Ion: 75 Resp: 109798

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

