

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019787.D
 Acq On : 09 Dec 2020 18:30
 Operator : JC/MD
 Sample : L4971-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 5S2-A-TOP

Quant Time: Dec 10 05:41:55 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	337629	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	548144	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	506246	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	224328	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	207628	46.79	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.58%
35) Dibromofluoromethane	5.46	113	167235	47.21	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.42%
50) Toluene-d8	8.70	98	670298	49.56	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.12%
62) 4-Bromofluorobenzene	11.12	95	234301	45.52	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.04%

Target Compounds

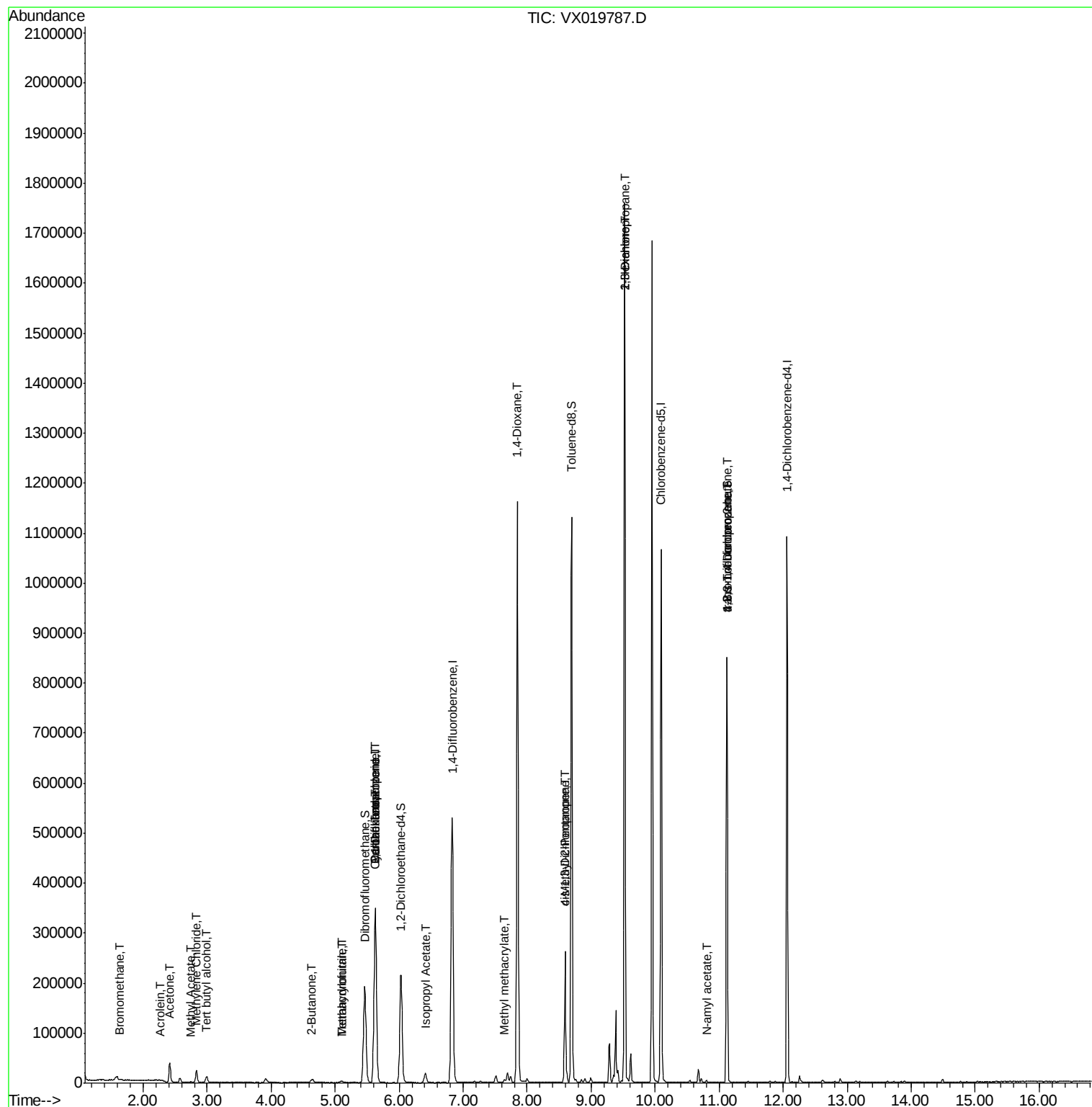
					Qvalue	
5) Bromomethane	1.63	94	624	0.490	ug/l	81
11) Tert butyl alcohol	3.00	59	7804	6.004	ug/l #	79
13) Acrolein	2.27	56	103	0.210	ug/l #	14
16) Acetone	2.42	43	38781	23.251	ug/l	99
18) Methyl Acetate	2.75	43	1968	0.482	ug/l	95
20) Methylene Chloride	2.83	84	11667	1.690	ug/l	95
25) 2-Butanone	4.63	43	7062	2.755	ug/l	90
29) Tetrahydrofuran	5.10	42	3028	1.834	ug/l	95
31) Cyclohexane	5.62	56	6303	1.142	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24721	4.991	ug/l #	49
38) Carbon Tetrachloride	5.62	117	32545	6.710	ug/l #	17
41) Methacrylonitrile	5.10	41	2048	0.746	ug/l #	43
43) Isopropyl Acetate	6.41	43	25686	3.159	ug/l	97
48) Methyl methacrylate	7.65	41	7806	1.952	ug/l #	10
49) 1,4-Dioxane	7.85	88	140	1.445	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	85052	17.133	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	43907	7.187	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	16055	2.466	ug/l #	43
59) 2-Hexanone	9.52	43	193965	50.409	ug/l #	47
74) N-amyl acetate	10.80	43	1902	0.310	ug/l #	44
76) 1,2,3-Trichloropropane	11.12	75	113113	22.482	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	113113	64.991	ug/l #	12

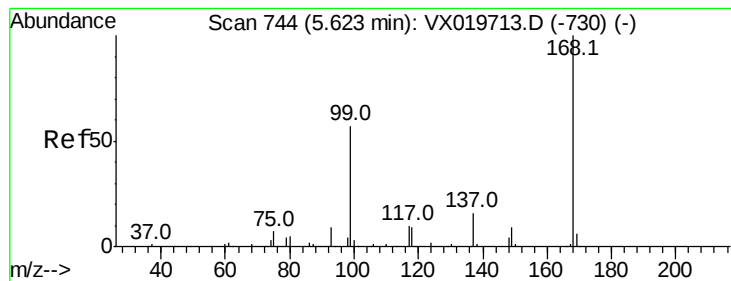
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 10 05:41:55 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: VX019787.D

Acq: 09 Dec 2020 18:30

Instrument :

MSVOA_X

ClientSampleId :

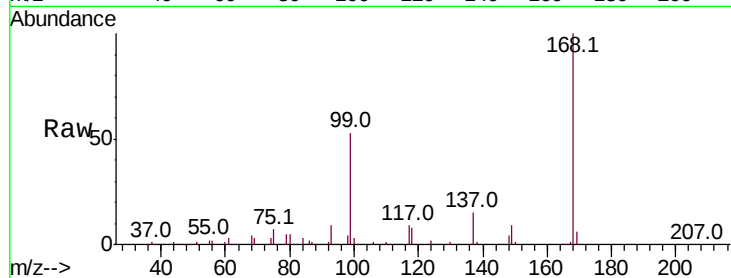
5S2-A-TOP

Tot Ion:168 Resp: 337629

Ion Ratio Lower Upper

168 100

99 53.4 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

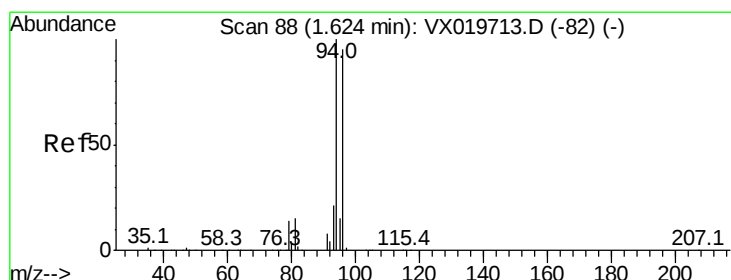
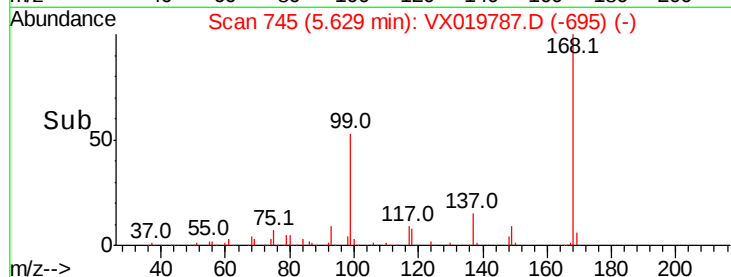
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.490 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019787.D

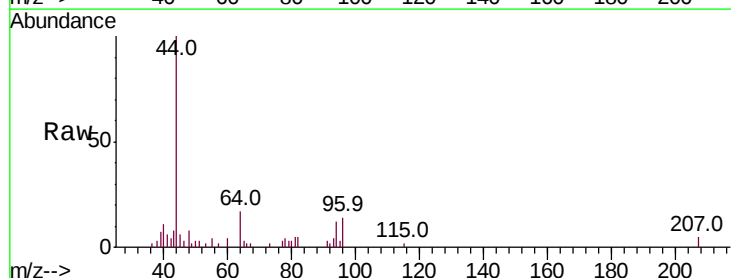
Acq: 09 Dec 2020 18:30

Tgt Ion: 94 Resp: 624

Ion Ratio Lower Upper

94 100

96 113.7 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

400

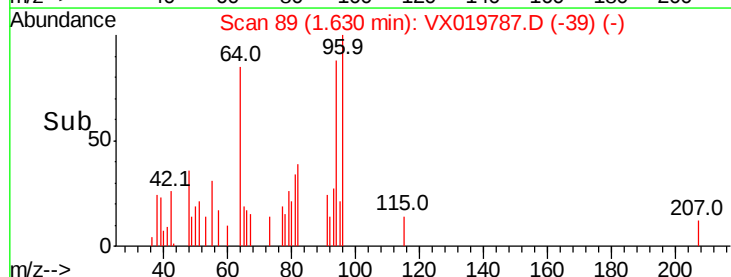
300

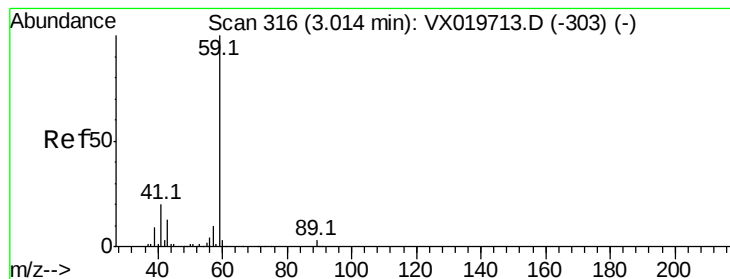
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 6.004 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

Instrument :

MSVOA_X

ClientSampleId :

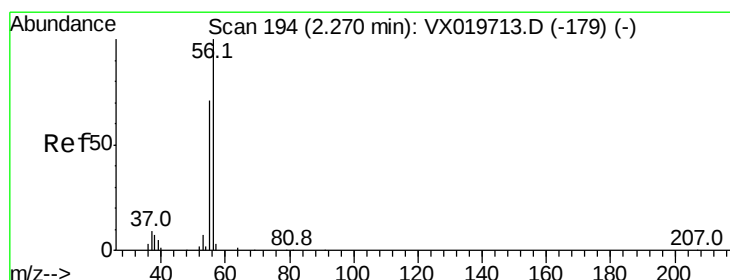
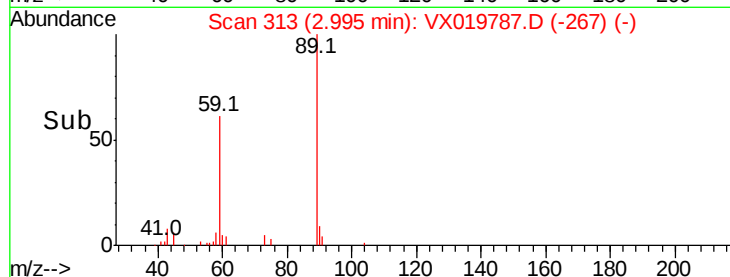
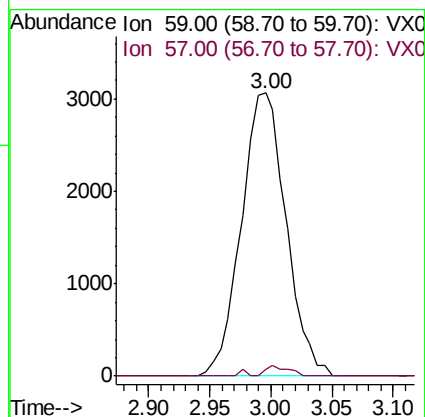
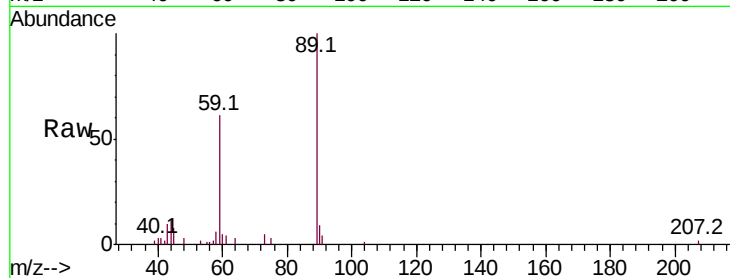
5S2-A-TOP

Tot Ion: 59 Resp: 7804

Ion Ratio Lower Upper

59 100

57 1.9 7.8 11.8#



#13

Acrolein

Concen: 0.210 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019787.D

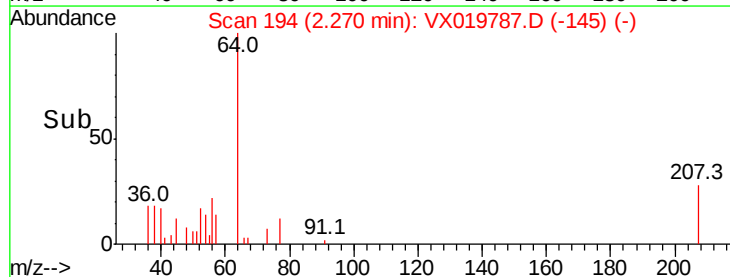
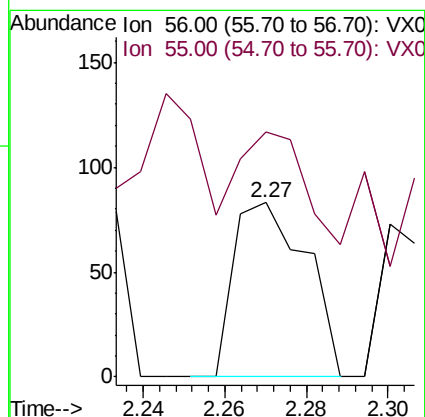
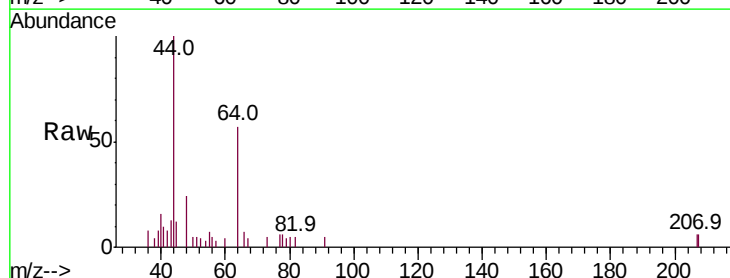
Acq: 09 Dec 2020 18:30

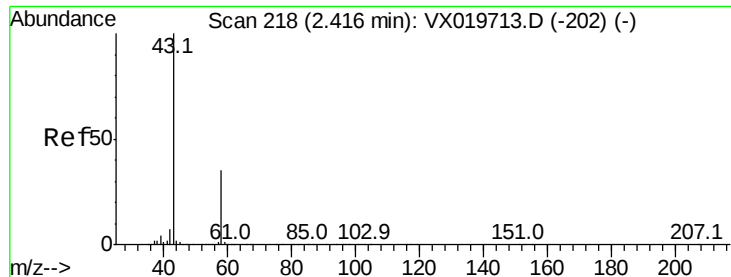
Tgt Ion: 56 Resp: 103

Ion Ratio Lower Upper

56 100

55 0.0 56.4 84.6#





#16

Acetone

Concen: 23.251 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

Instrument :

MSVOA_X

ClientSampled :

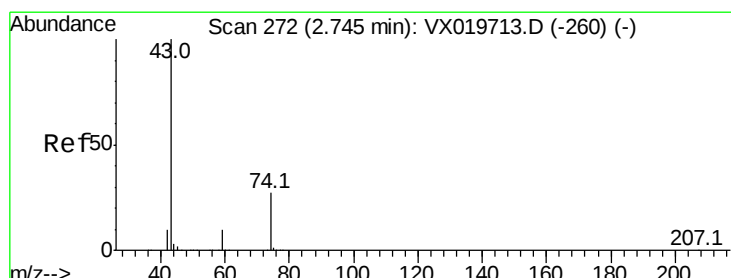
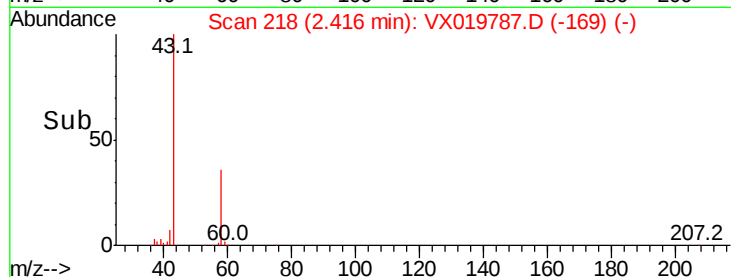
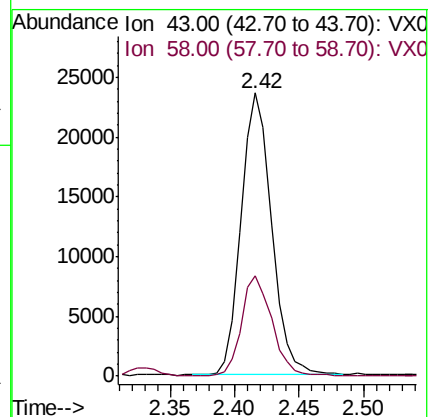
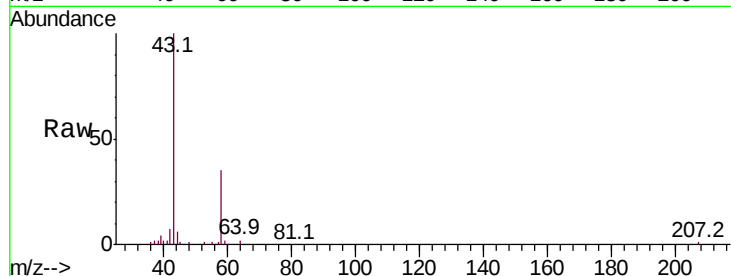
5S2-A-TOP

Tot Ion: 43 Resp: 38781

Ion Ratio Lower Upper

43 100

58 35.3 27.8 41.8



#18

Methyl Acetate

Concen: 0.482 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX019787.D

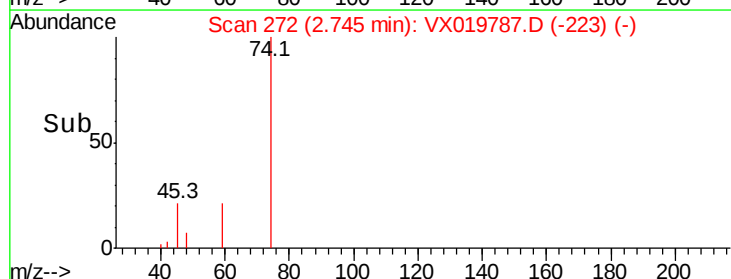
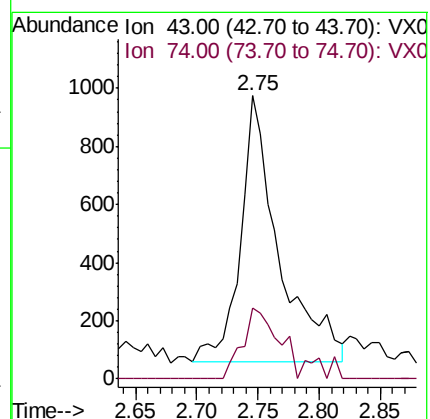
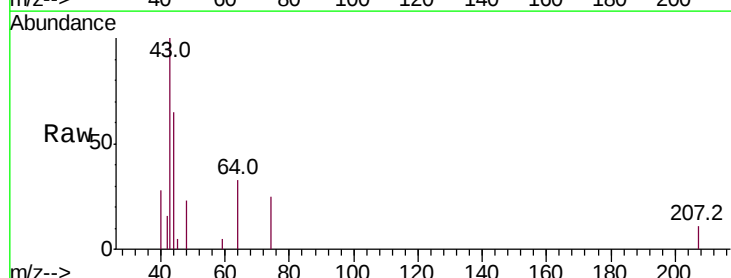
Acq: 09 Dec 2020 18:30

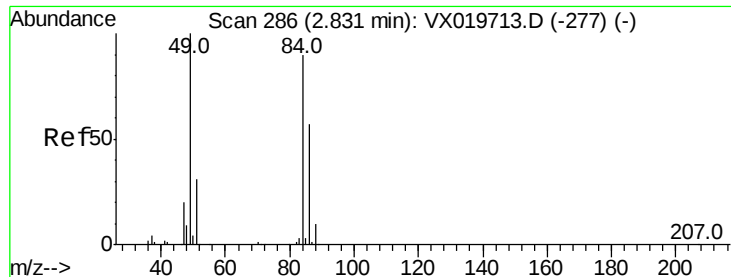
Tgt Ion: 43 Resp: 1968

Ion Ratio Lower Upper

43 100

74 24.8 21.9 32.9

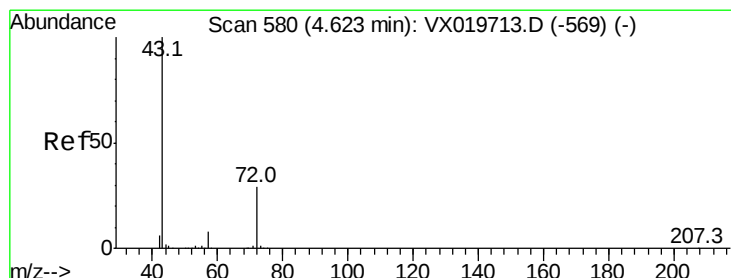
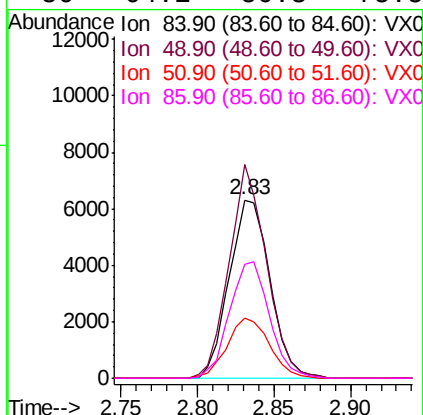
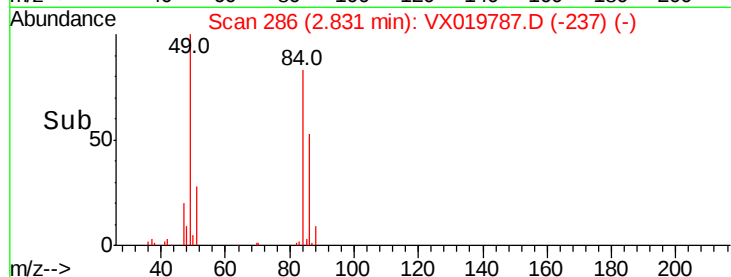
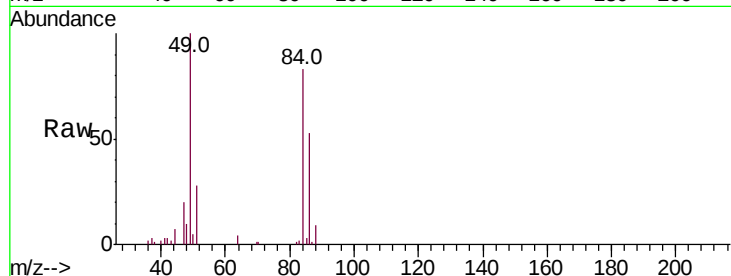




#20
Methvlene Chloride
Concen: 1.690 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019787.D
Acq: 09 Dec 2020 18:30

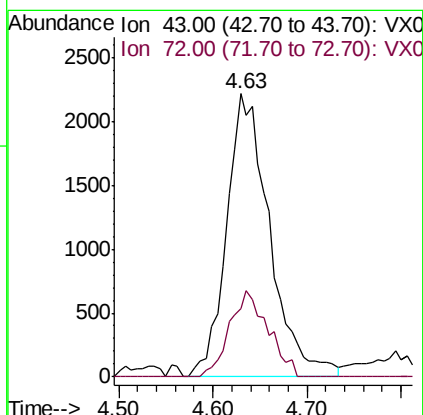
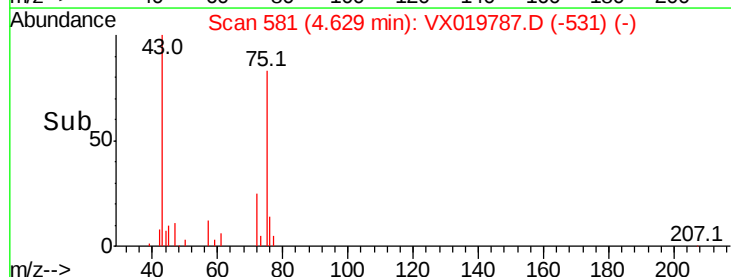
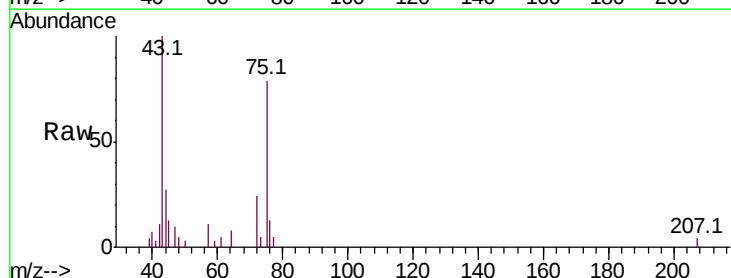
Instrument :
MSVOA_X
ClientSampleId :
5S2-A-TOP

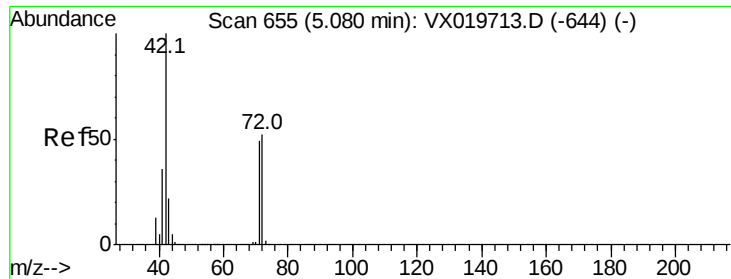
Tot Ion:	84	Resp:	11667
Ion	Ratio	Lower	Upper
84	100		
49	120.0	88.6	132.8
51	33.6	27.0	40.6
86	64.1	50.3	75.5



#25
2-Butanone
Concen: 2.755 ug/l
RT: 4.63 min Scan# 581
Delta R.T. 0.01 min
Lab File: VX019787.D
Acq: 09 Dec 2020 18:30

Tgt Ion:	43	Resp:	7062
Ion	Ratio	Lower	Upper
43	100		
72	24.3	23.7	35.5

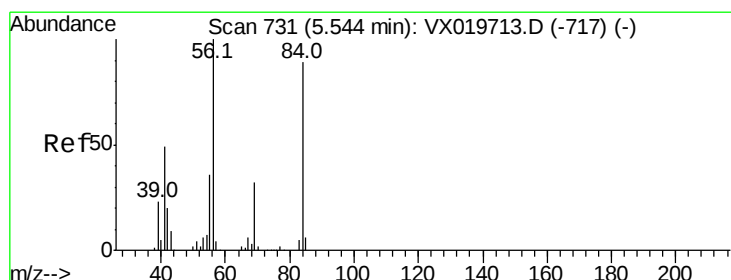
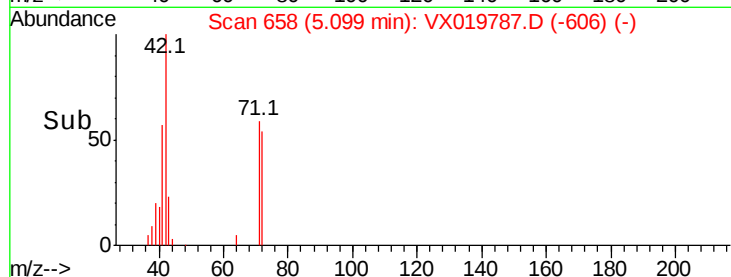
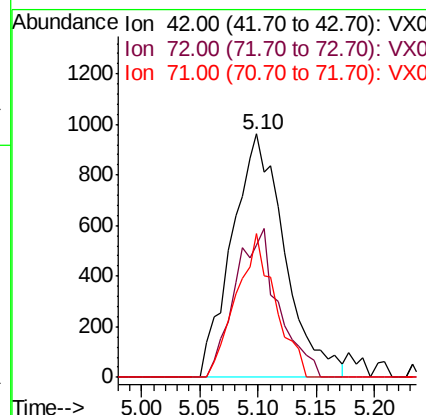
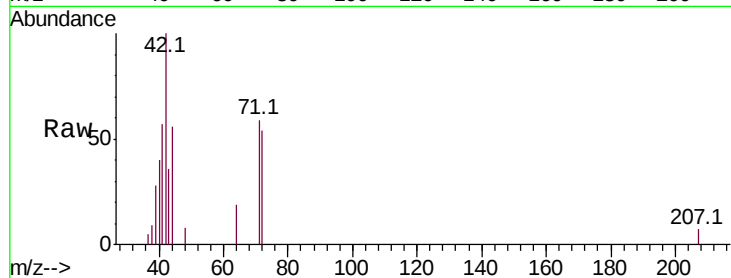




#29
Tetrahydrofuran
Concen: 1.834 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.02 min
Lab File: VX019787.D
Acq: 09 Dec 2020 18:30

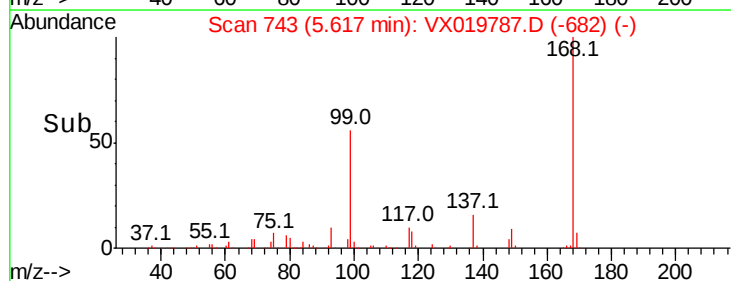
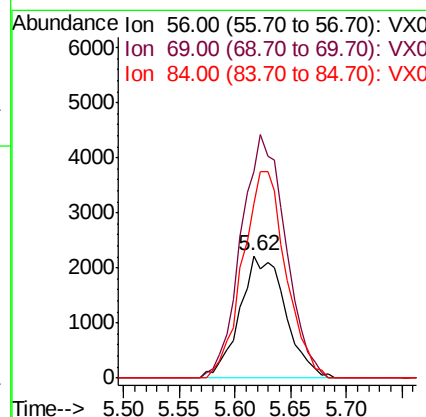
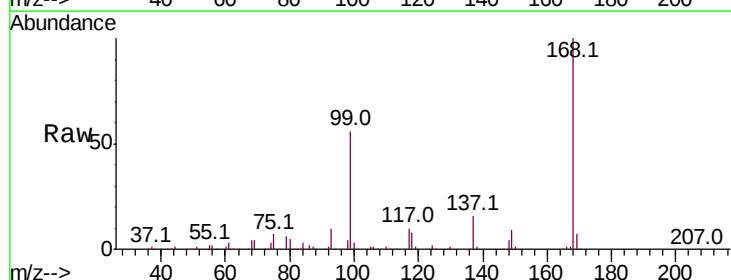
Instrument :
MSVOA_X
ClientSampled :
5S2-A-TOP

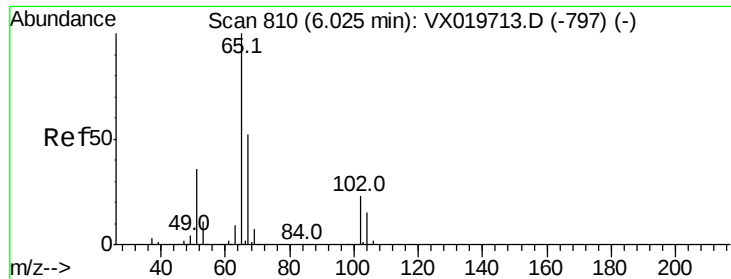
Tot Ion: 42 Resp: 3028
Ion Ratio Lower Upper
42 100
72 50.3 41.7 62.5
71 43.4 38.4 57.6



#31
Cyclohexane
Concen: 1.142 ug/l
RT: 5.62 min Scan# 743
Delta R.T. 0.07 min
Lab File: VX019787.D
Acq: 09 Dec 2020 18:30

Tgt Ion: 56 Resp: 6303
Ion Ratio Lower Upper
56 100
69 169.2 25.3 37.9#
84 143.2 71.4 107.0#

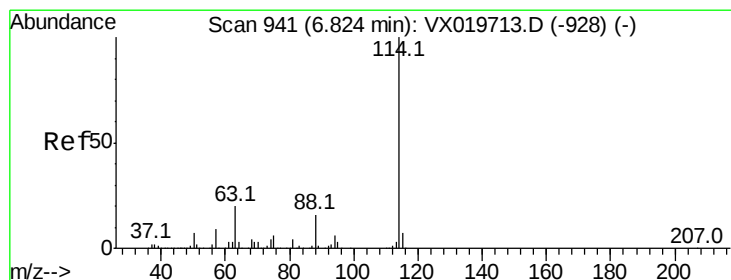
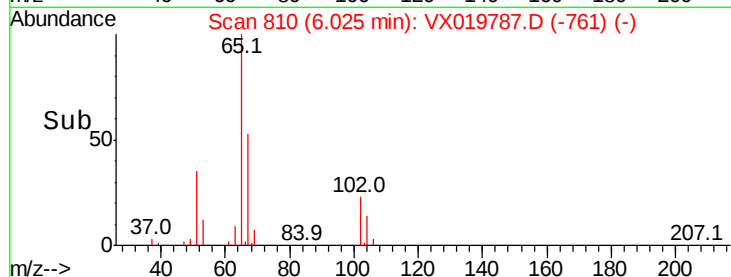
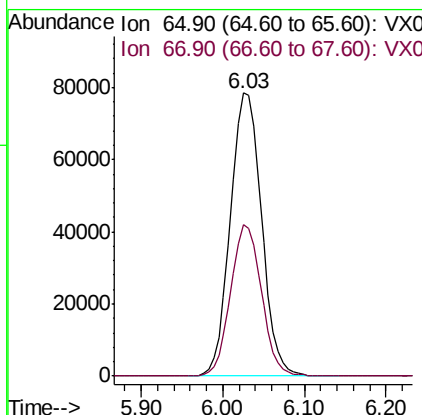
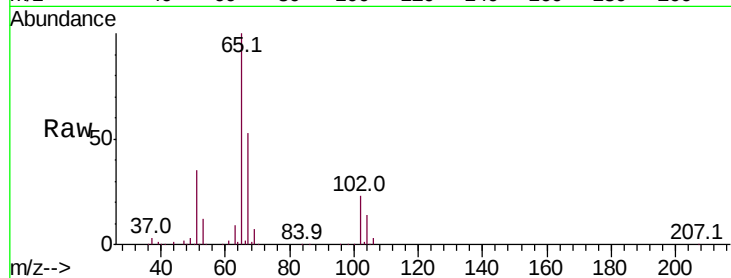




#33
 1,2-Dichloroethane-d4
 Concen: 46.790 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VX019787.D
 Acq: 09 Dec 2020 18:30

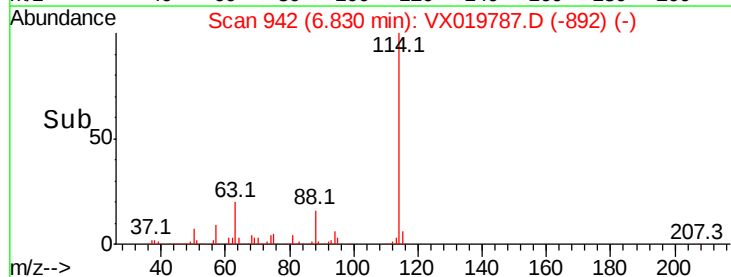
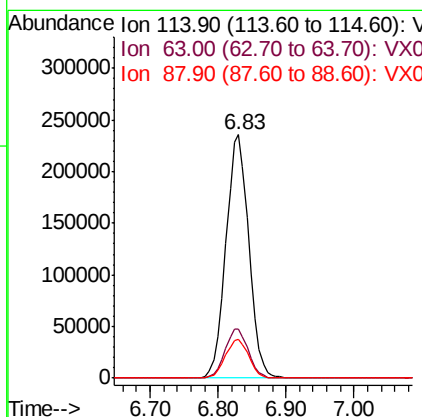
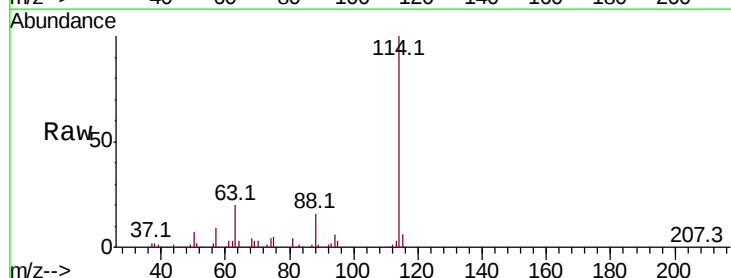
Instrument :
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 ClientSampleId :
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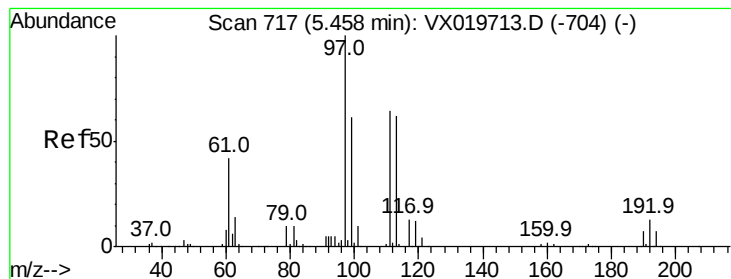
Tot Ion: 65 Resp: 207628
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019787.D
 Acq: 09 Dec 2020 18:30

Tgt Ion: 114 Resp: 548144
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.8
 88 15.9 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.207 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

Instrument :

MSVOA_X

ClientSampleId :

5S2-A-TOP

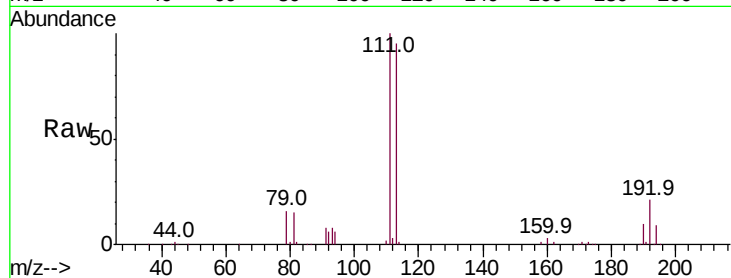
Tot Ion:113 Resp: 167235

Ion Ratio Lower Upper

113 100

111 103.5 81.9 122.9

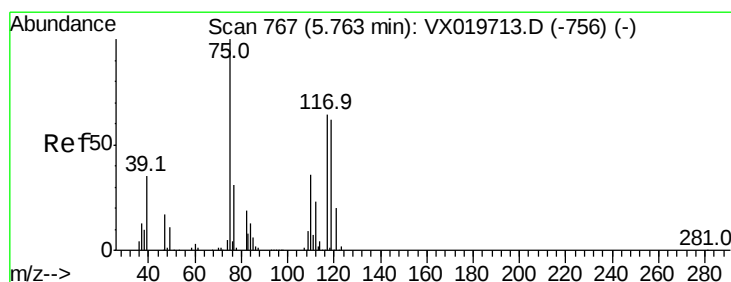
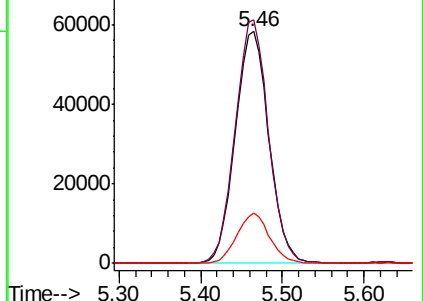
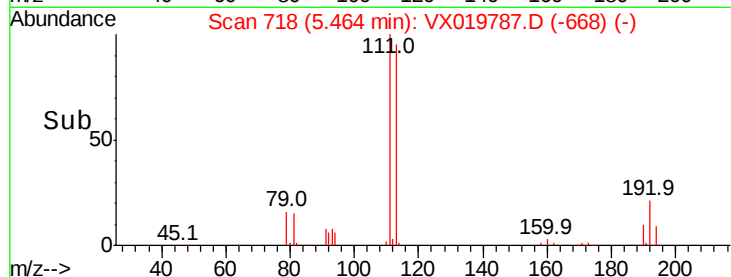
192 20.8 16.7 25.1



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: 4.991 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

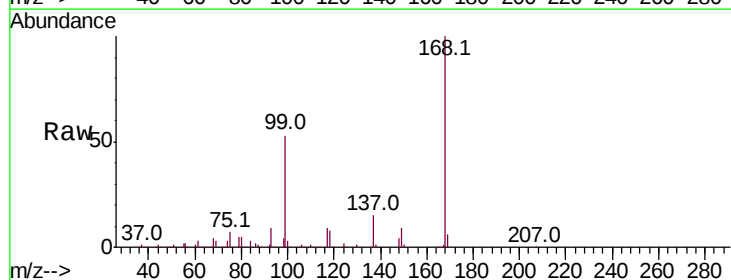
Tgt Ion: 75 Resp: 24721

Ion Ratio Lower Upper

75 100

110 9.2 18.1 54.4#

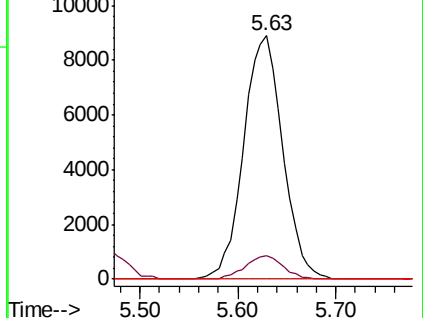
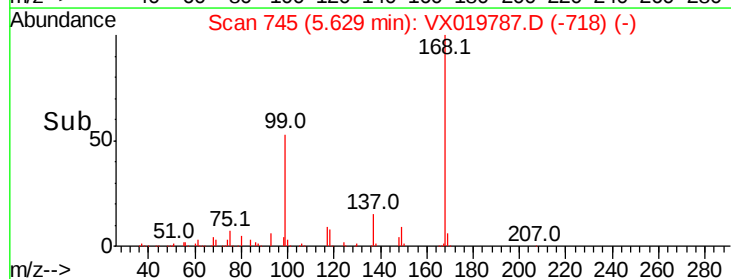
77 0.0 25.3 37.9#

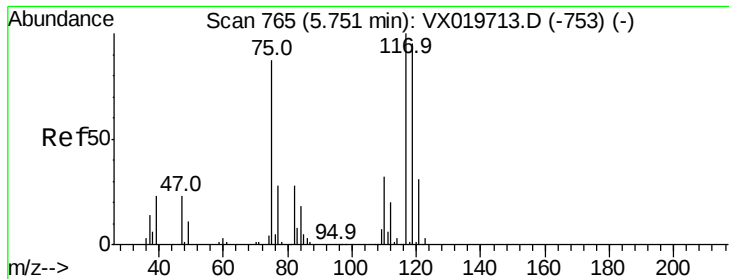


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

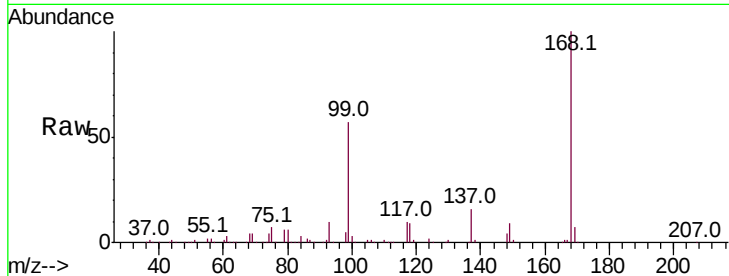




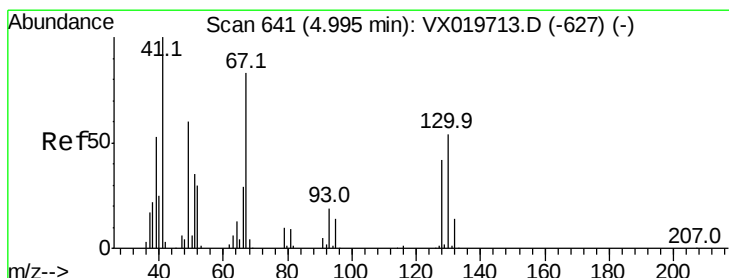
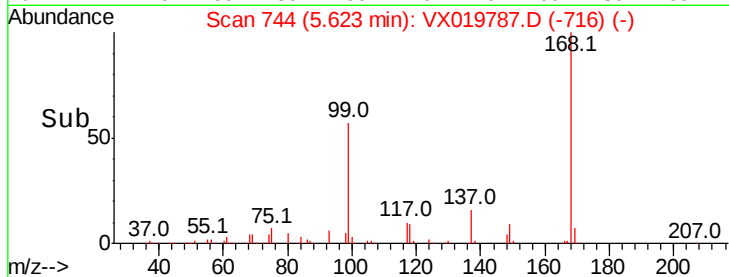
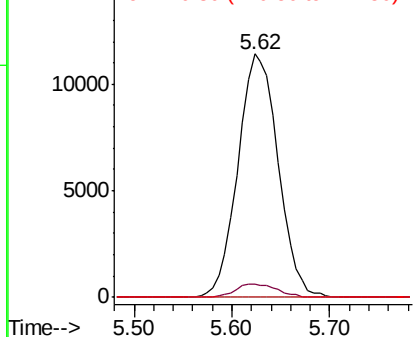
#38
Carbon Tetrachloride
Concen: 6.710 ug/l
RT: 5.62 min Scan# 744
Delta R.T. -0.13 min
Lab File: VX019787.D
Acq: 09 Dec 2020 18:30

Instrument :
MSVOA_X
ClientSampleId :
5S2-A-TOP

Tot Ion:117 Resp: 32545
Ion Ratio Lower Upper
117 100
119 5.7 76.2 114.2#
121 0.0 24.8 37.2#

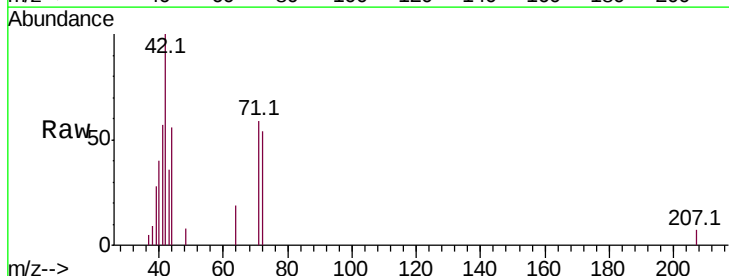


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

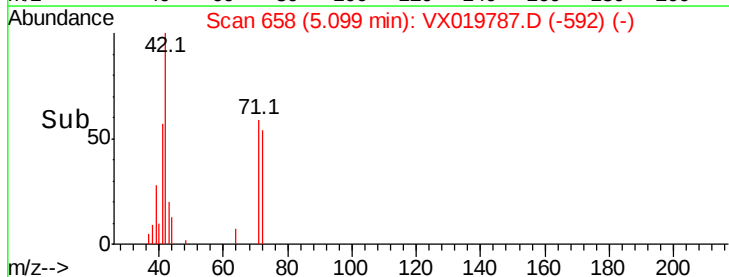
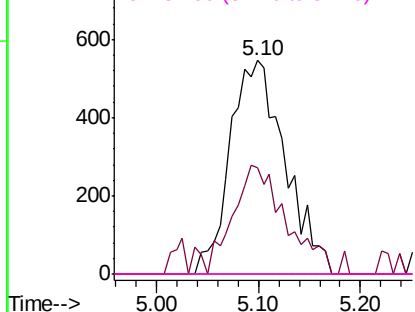


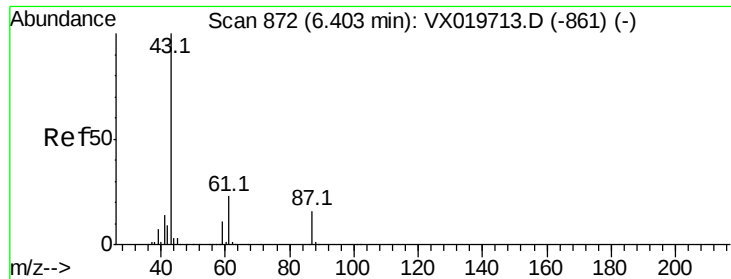
#41
Methacrylonitrile
Concen: 0.746 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.10 min
Lab File: VX019787.D
Acq: 09 Dec 2020 18:30

Tgt Ion: 41 Resp: 2048
Ion Ratio Lower Upper
41 100
39 49.1 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: 3.159 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

Instrument :

MSVOA_X

ClientSampled :

5S2-A-TOP

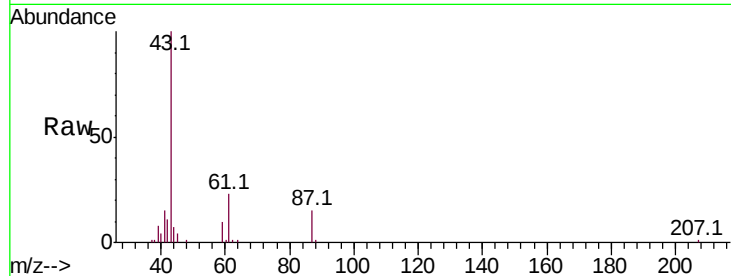
Tot Ion: 43 Resp: 25686

Ion Ratio Lower Upper

43 100

61 21.4 18.2 27.4

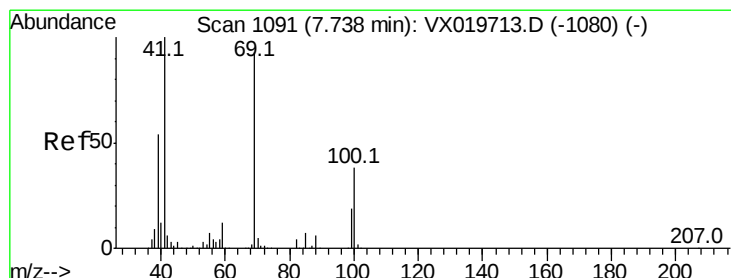
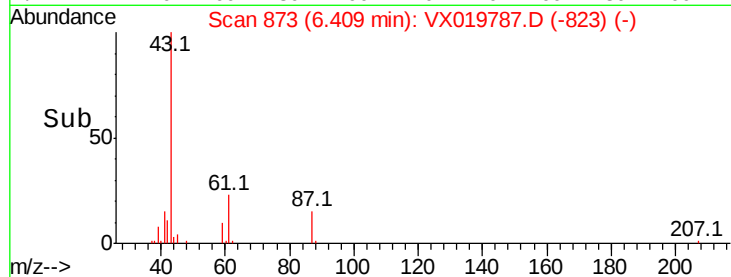
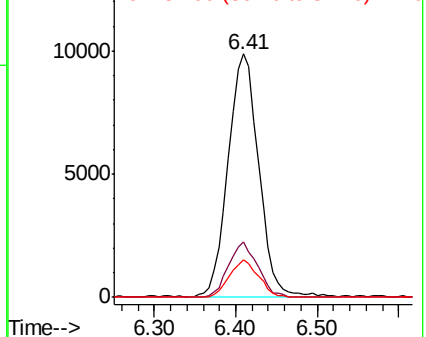
87 14.4 12.5 18.7



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: 1.952 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

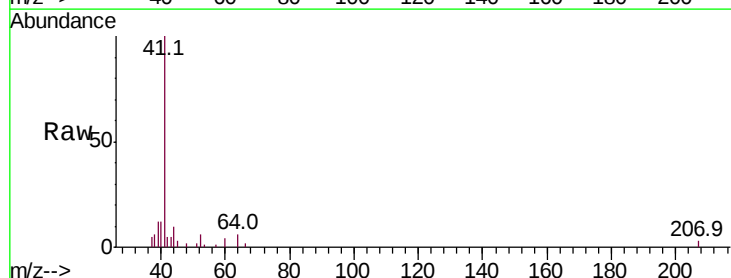
Tgt Ion: 41 Resp: 7806

Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

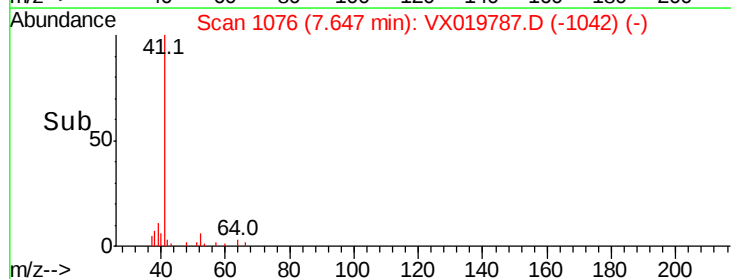
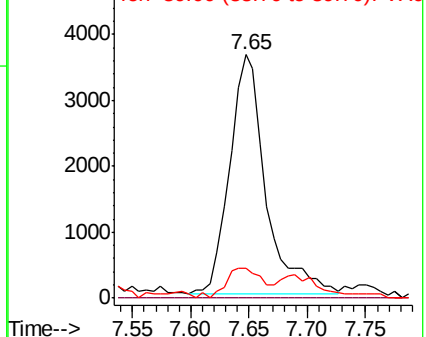
39 0.0 44.6 67.0#

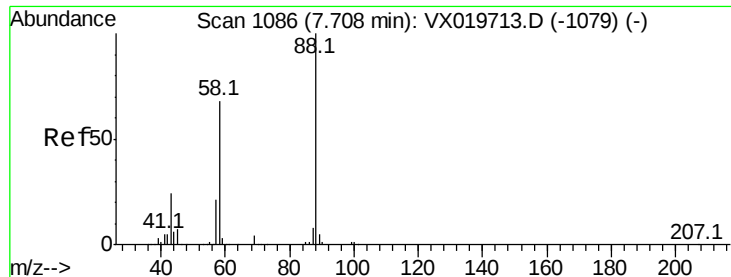


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 1.445 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.14 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

Instrument :

MSVOA_X

ClientSampleId :

5S2-A-TOP

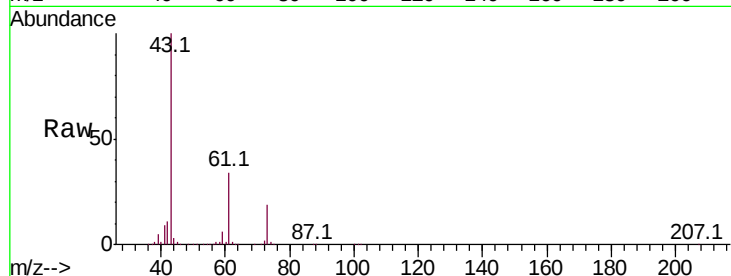
Tot Ion: 88 Resp: 140

Ion Ratio Lower Upper

88 100

43 702947.1 23.2 34.8#

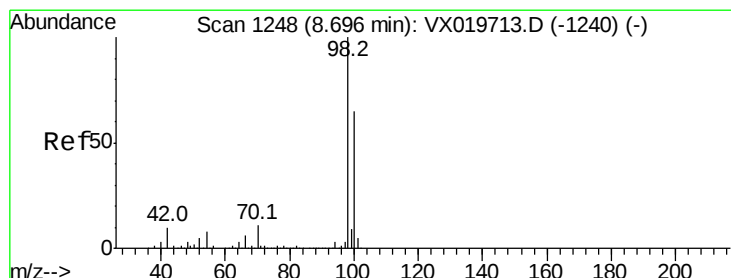
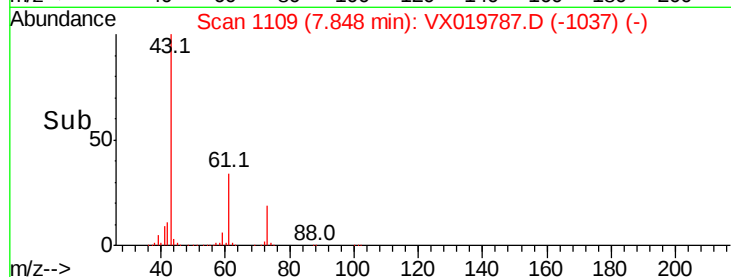
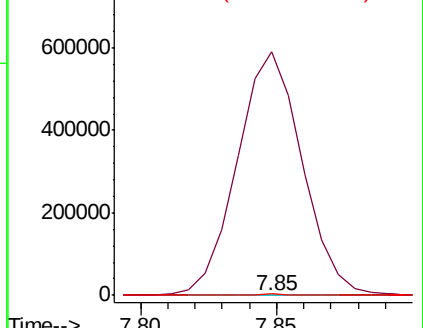
58 3767.1 55.0 82.4#



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: 49.561 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019787.D

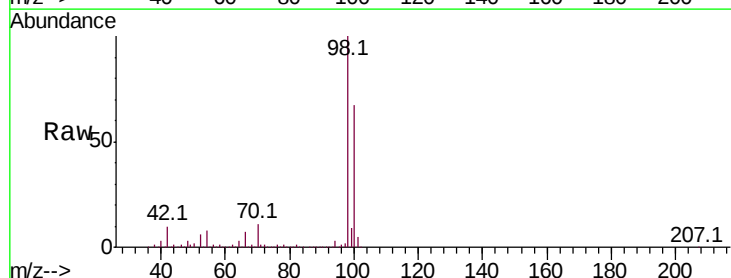
Acq: 09 Dec 2020 18:30

Tgt Ion: 98 Resp: 670298

Ion Ratio Lower Upper

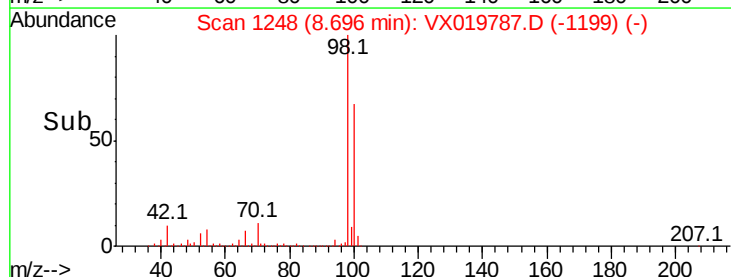
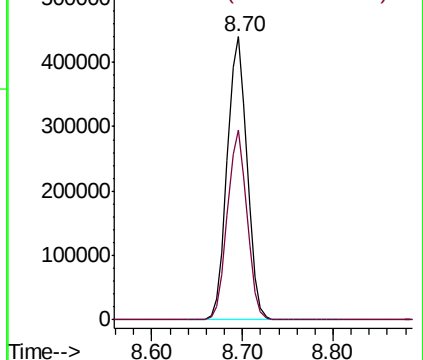
98 100

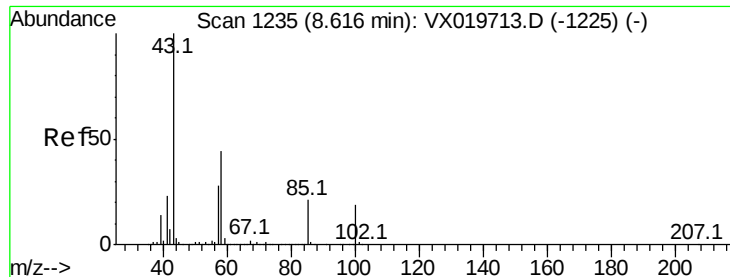
100 66.0 51.9 77.9



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: 17.133 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

Instrument :

MSVOA_X

ClientSampled :

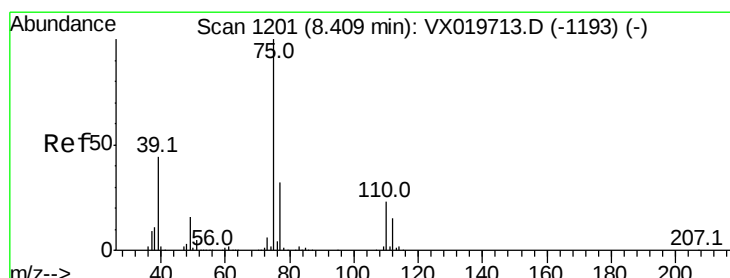
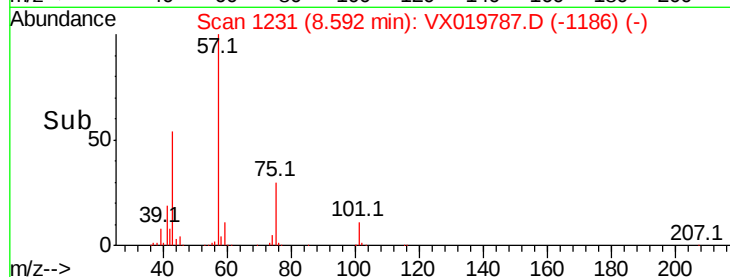
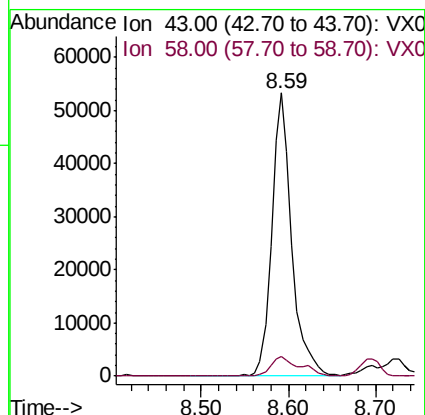
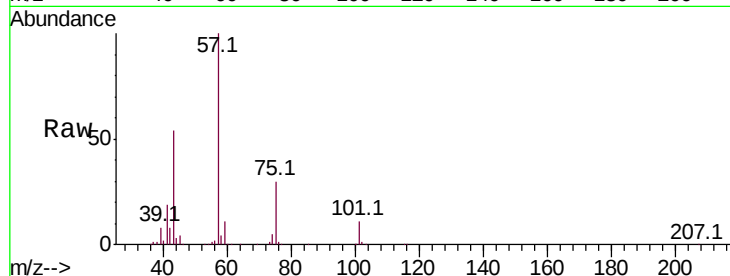
5S2-A-TOP

Tot Ion: 43 Resp: 85052

Ion Ratio Lower Upper

43 100

58 10.1 35.4 53.0#



#54

cis-1,3-Dichloropropene

Concen: 7.187 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

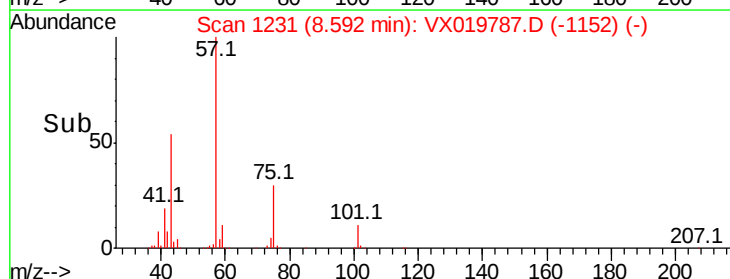
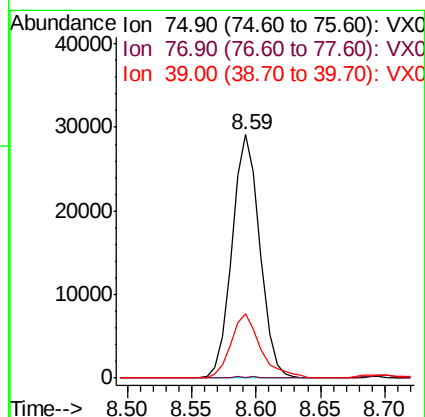
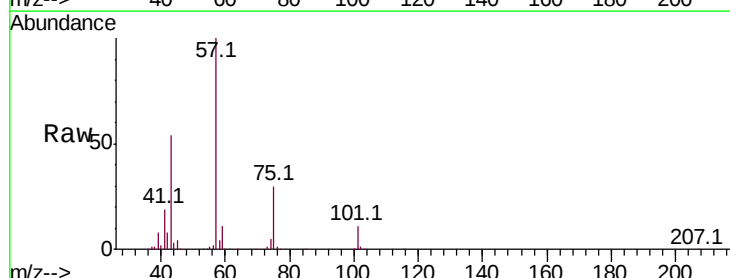
Tgt Ion: 75 Resp: 43907

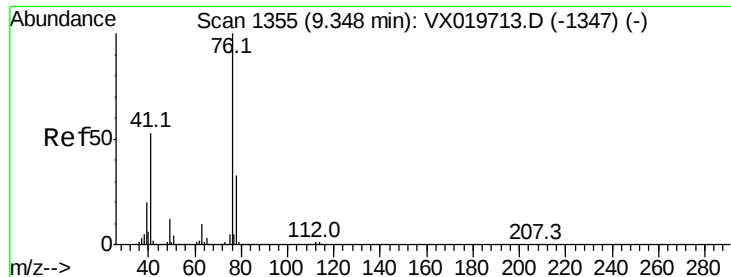
Ion Ratio Lower Upper

75 100

77 0.4 25.7 38.5#

39 26.4 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 2.466 ug/l

RT: 9.52 min Scan# 1383

Delta R.T. 0.17 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

Instrument :

MSVOA_X

ClientSampled :

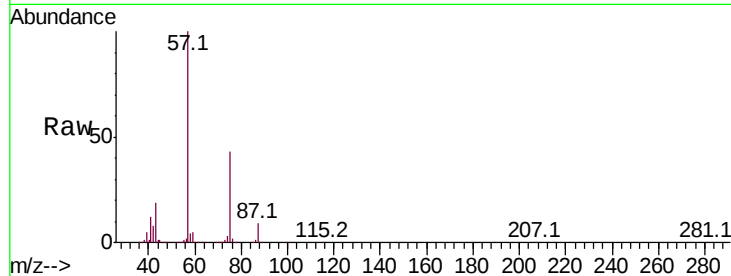
5S2-A-TOP

Tot Ion: 76 Resp: 16055

Ion Ratio Lower Upper

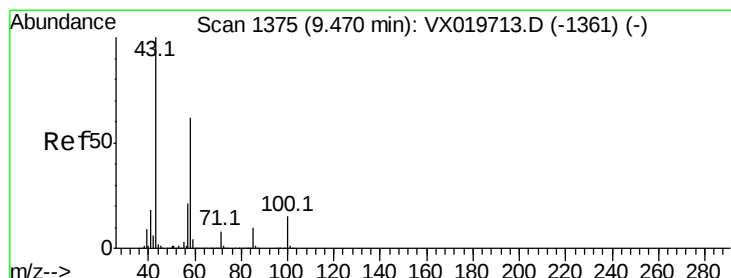
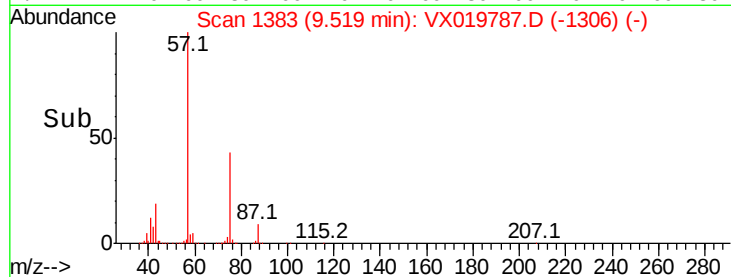
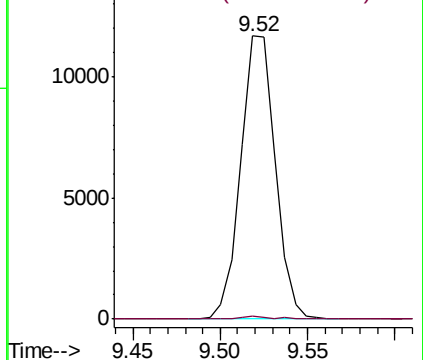
76 100

78 0.7 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 50.409 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019787.D

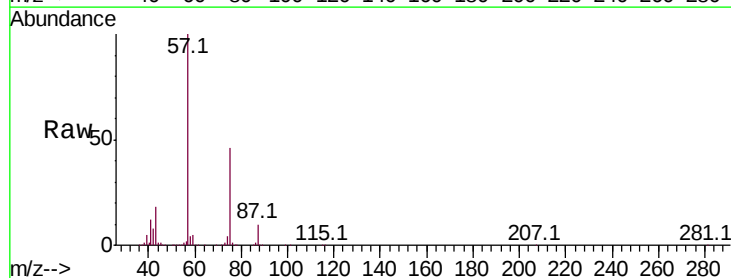
Acq: 09 Dec 2020 18:30

Tgt Ion: 43 Resp: 193965

Ion Ratio Lower Upper

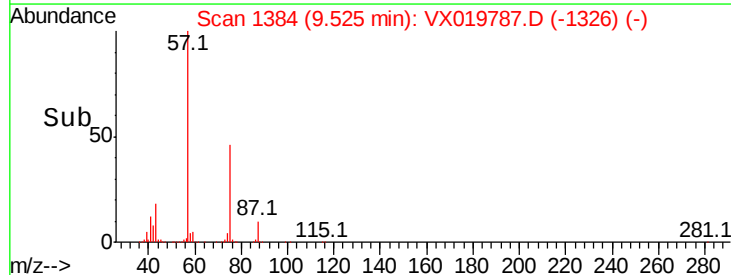
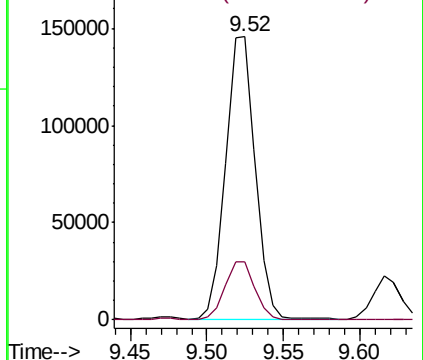
43 100

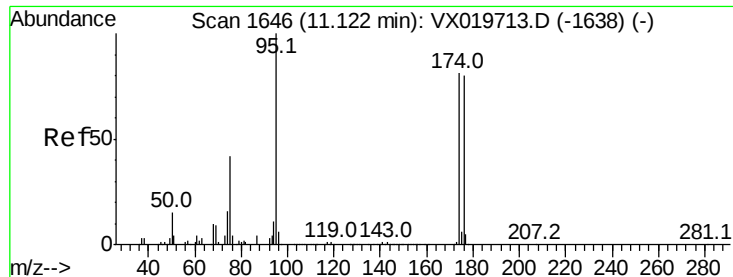
58 21.0 30.9 92.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.516 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

Instrument :

MSVOA_X

ClientSampleId :

5S2-A-TOP

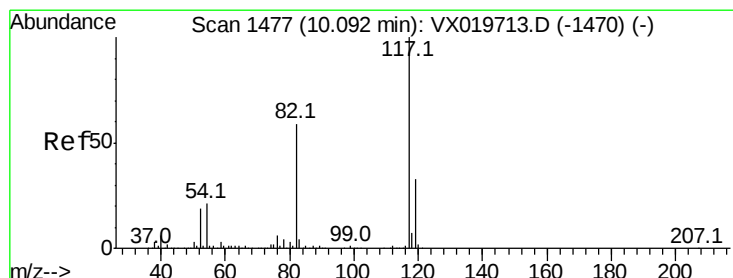
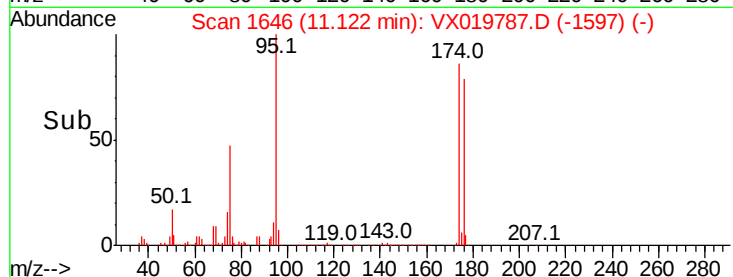
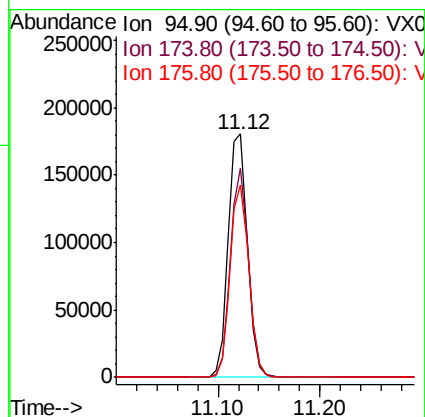
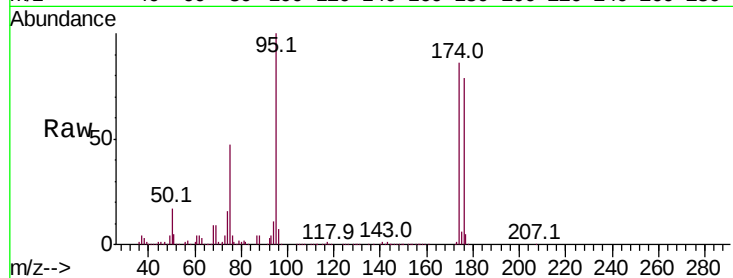
Tot Ion: 95 Resp: 234301

Ion Ratio Lower Upper

95 100

174 80.8 0.0 154.6

176 76.9 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: VX019787.D

Acq: 09 Dec 2020 18:30

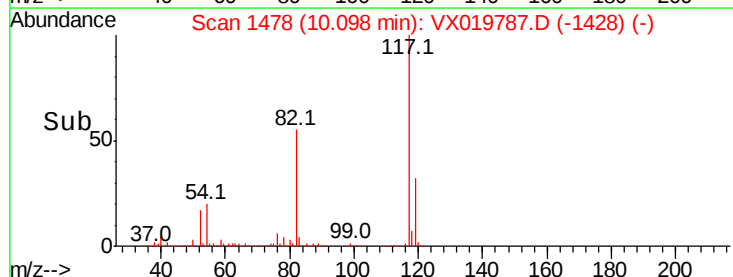
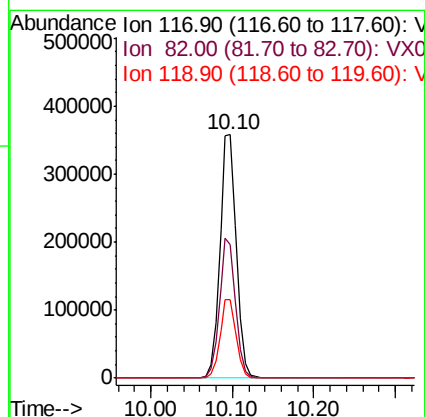
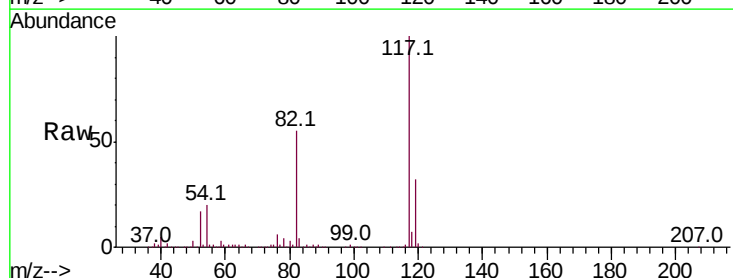
Tgt Ion: 117 Resp: 506246

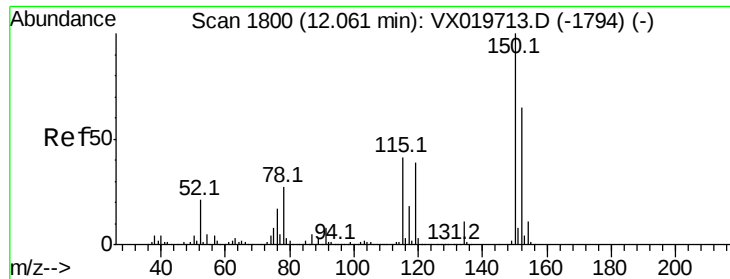
Ion Ratio Lower Upper

117 100

82 54.9 47.4 71.2

119 32.3 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: VX019787.D

Acq: 09 Dec 2020 18:30

Instrument :

MSVOA_X

ClientSampleId :

5S2-A-TOP

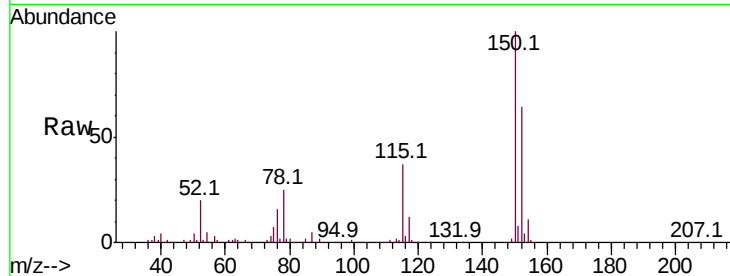
Tot Ion:152 Resp: 224328

Ion Ratio Lower Upper

152 100

115 58.2 41.1 123.3

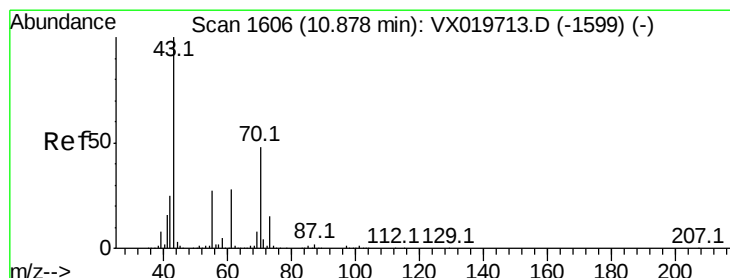
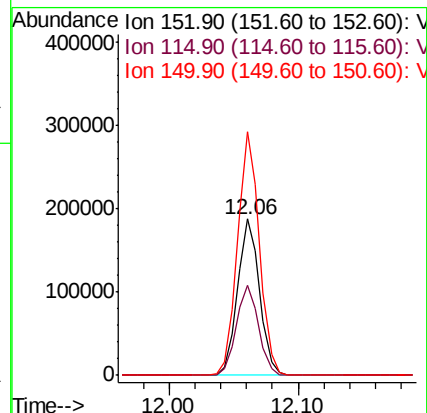
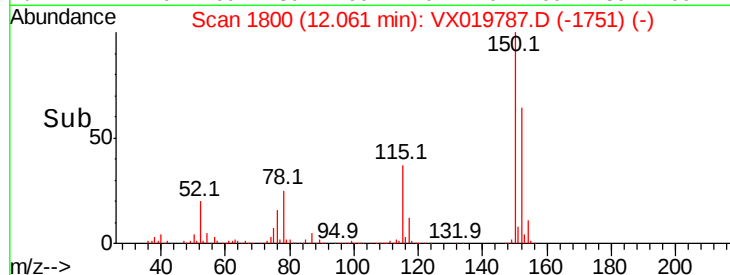
150 154.8 0.0 349.0



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: 0.310 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

Tgt Ion: 43 Resp: 1902

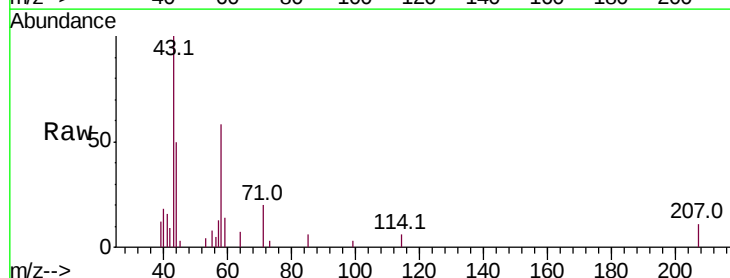
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 11.5 21.5 32.3#

61 0.0 22.1 33.1#

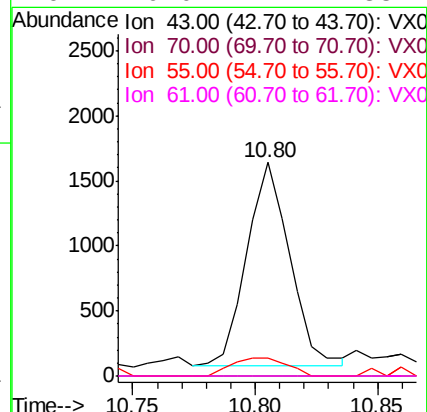
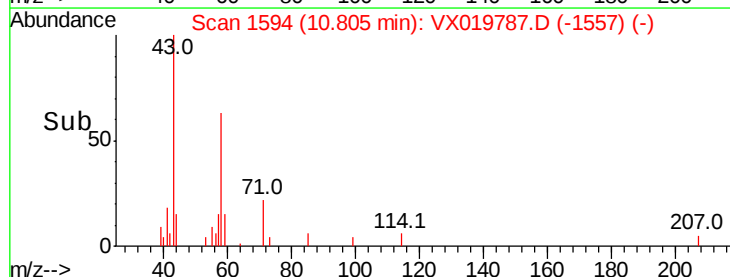


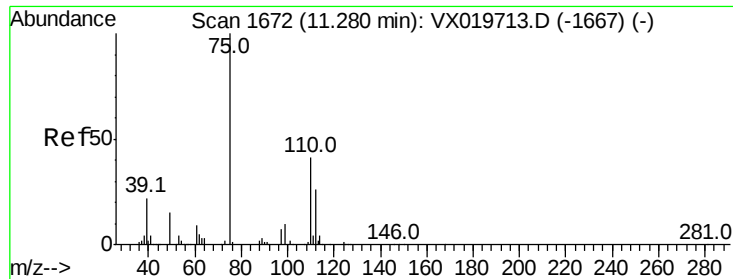
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.482 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

Instrument :

MSVOA_X

ClientSampleId :

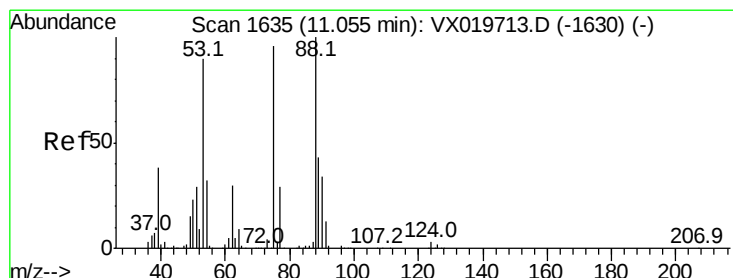
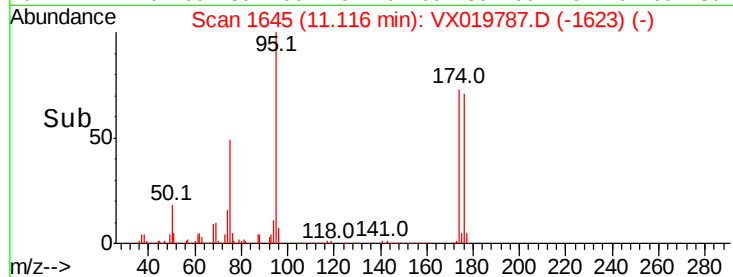
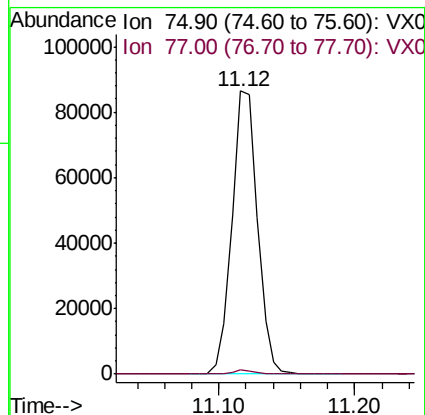
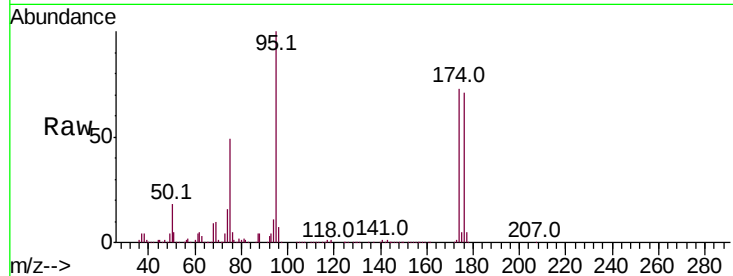
5S2-A-TOP

Tot Ion: 75 Resp: 113113

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.991 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019787.D

Acq: 09 Dec 2020 18:30

Tgt Ion: 75 Resp: 113113

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

