

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019786.D
 Acq On : 09 Dec 2020 18:07
 Operator : JC/MD
 Sample : L4971-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-D-BOTTOM

Quant Time: Dec 10 05:41:45 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	329798	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	544896	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	501705	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	223849	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	204435	47.16	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.32%	
35) Dibromofluoromethane		5.46	113	167045	47.43	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.86%	
50) Toluene-d8		8.70	98	661924	49.23	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.46%	
62) 4-Bromofluorobenzene		11.12	95	235637	46.05	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.10%	

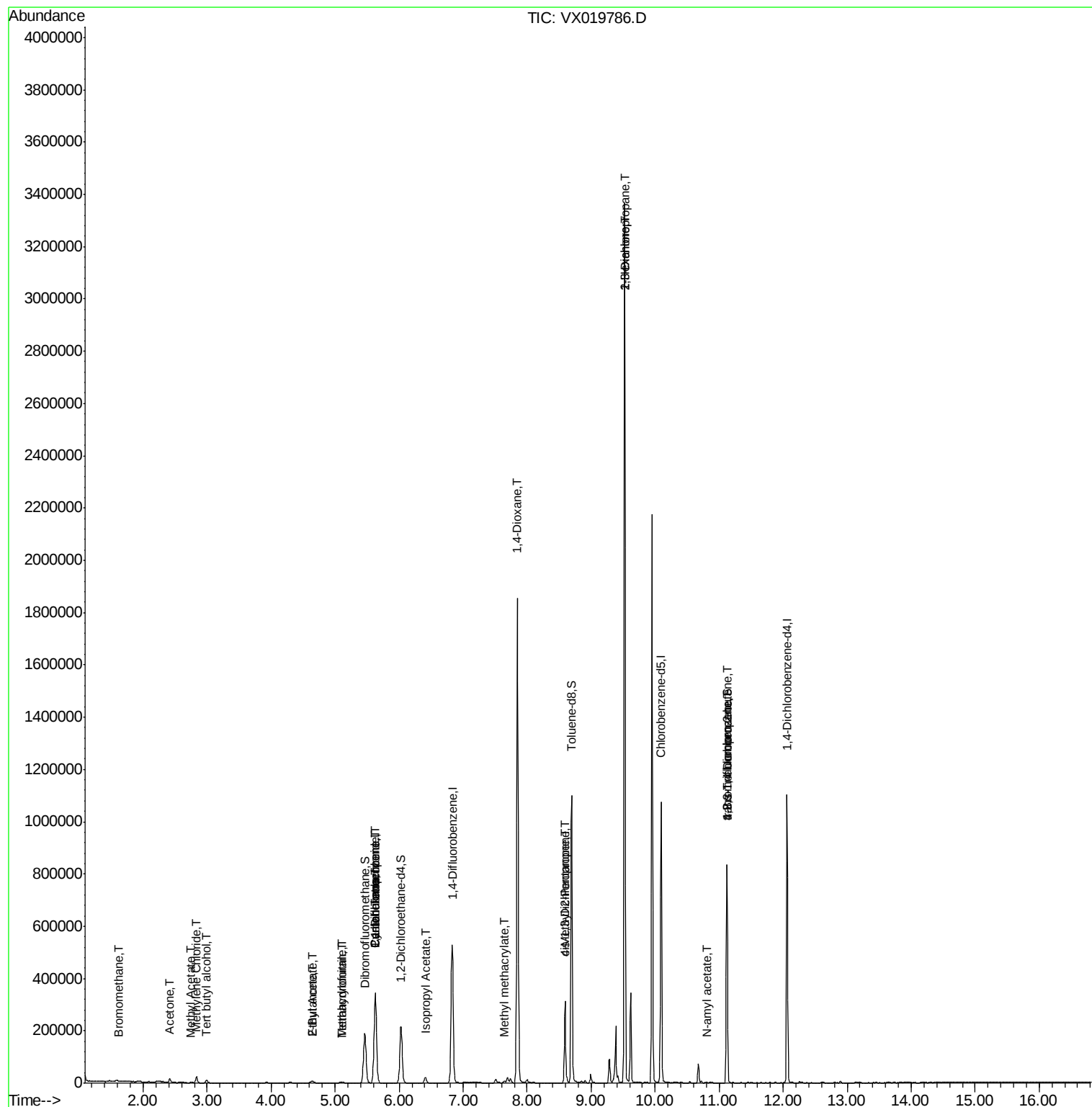
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	604	0.486	ug/l #	75
11) Tert butyl alcohol	2.99	59	6307	4.512	ug/l #	78
16) Acetone	2.42	43	14547	8.929	ug/l	99
18) Methyl Acetate	2.75	43	1481	0.371	ug/l	92
20) Methylene Chloride	2.84	84	10719	1.502	ug/l	98
25) 2-Butanone	4.64	43	6647	2.655	ug/l	95
29) Tetrahydrofuran	5.10	42	3084	1.912	ug/l	89
31) Cyclohexane	5.62	56	6100	1.131	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24859	5.049	ug/l #	49
37) Ethyl Acetate	4.64	43	6647	1.337	ug/l #	64
38) Carbon Tetrachloride	5.63	117	31977	6.632	ug/l #	16
41) Methacrylonitrile	5.09	41	1849	0.677	ug/l #	44
43) Isopropyl Acetate	6.41	43	26941	3.333	ug/l	99
48) Methyl methacrylate	7.65	41	8153	2.051	ug/l #	10
49) 1,4-Dioxane	7.84	88	274	2.845	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	97806	19.820	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	51986	8.560	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	31232	4.825	ug/l #	43
59) 2-Hexanone	9.52	43	371251	97.058	ug/l #	47
74) N-amyl acetate	10.81	43	1325	0.216	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	113919	22.691	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	113919	65.594	ug/l #	12

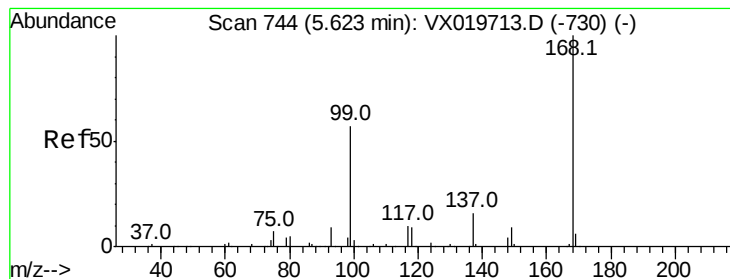
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX120920\
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Quant Time: Dec 10 05:41:45 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: VX019786.D

Acq: 09 Dec 2020 18:07

Instrument :

MSVOA_X

ClientSampleId :

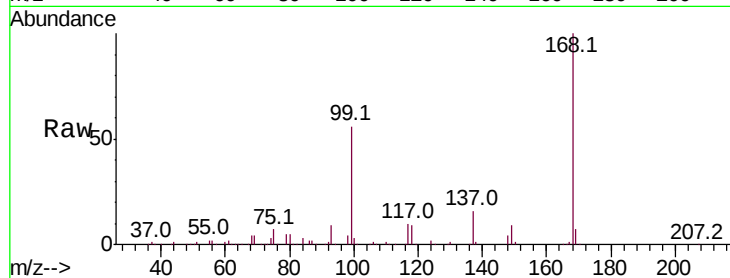
5S1-D-BOTTOM

Tot Ion:168 Resp: 329798

Ion Ratio Lower Upper

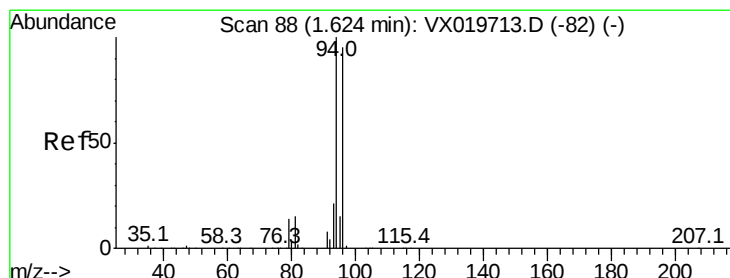
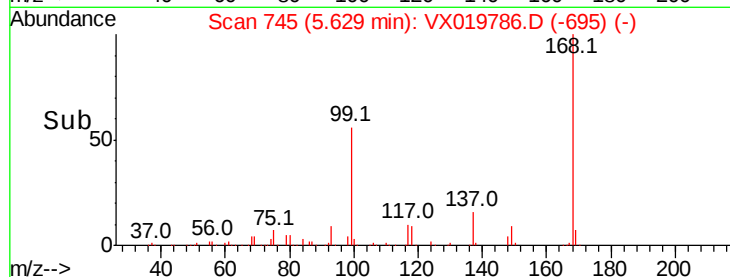
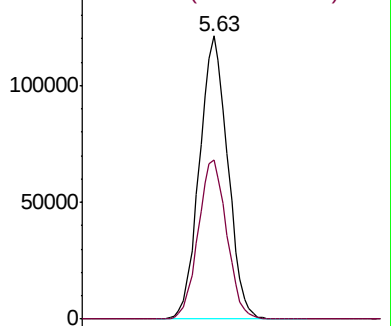
168 100

99 56.1 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: 0.486 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019786.D

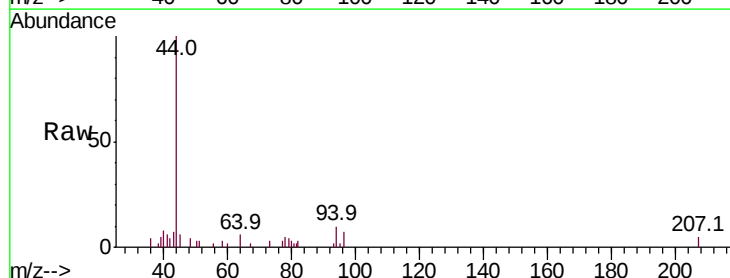
Acq: 09 Dec 2020 18:07

Tgt Ion: 94 Resp: 604

Ion Ratio Lower Upper

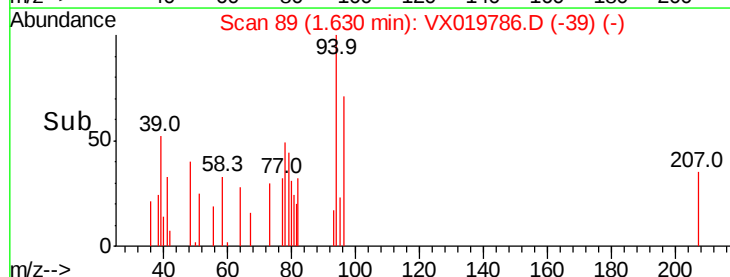
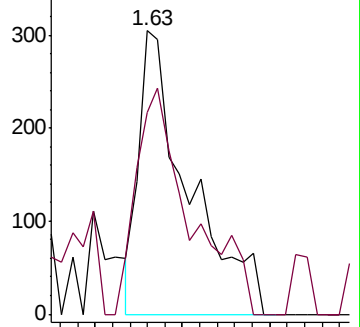
94 100

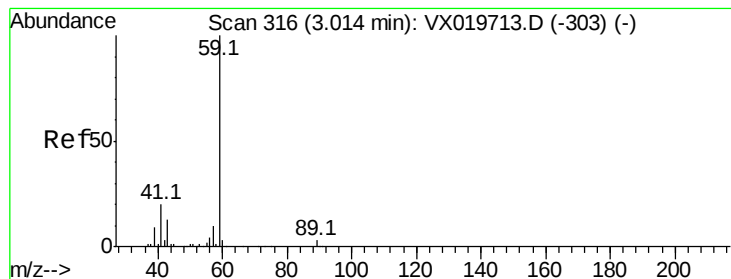
96 71.1 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



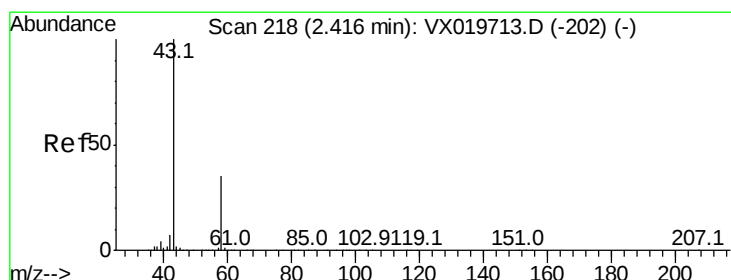
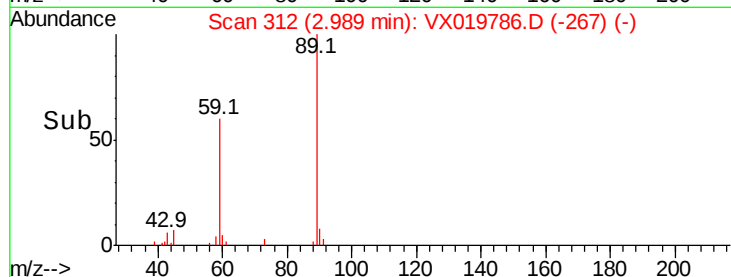
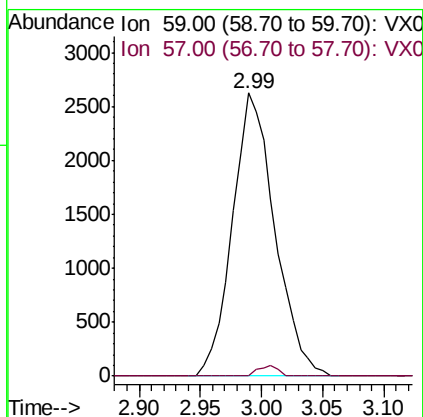
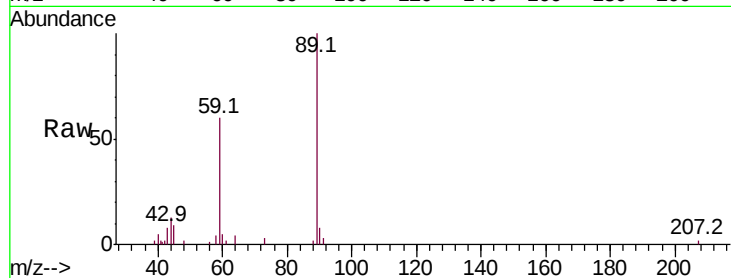


#11

Tert butyl alcohol
 Concen: 4.512 ug/l
 RT: 2.99 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX019786.D
 Acq: 09 Dec 2020 18:07

Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-D-BOTTOM

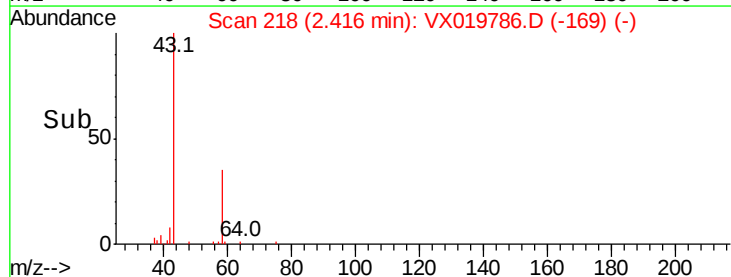
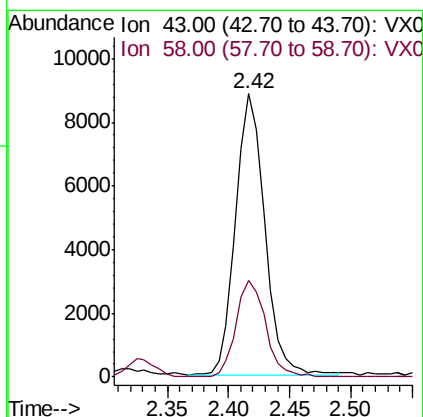
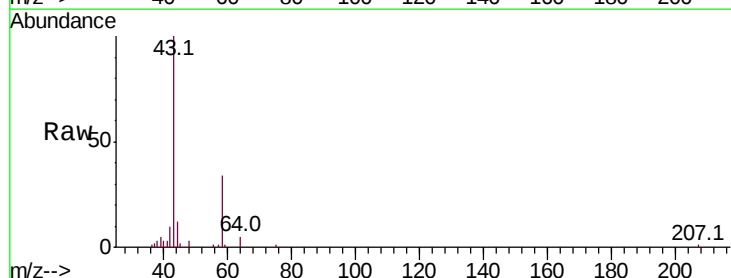
Tot Ion: 59 Resp: 6307
 Ion Ratio Lower Upper
 59 100
 57 1.8 7.8 11.8#

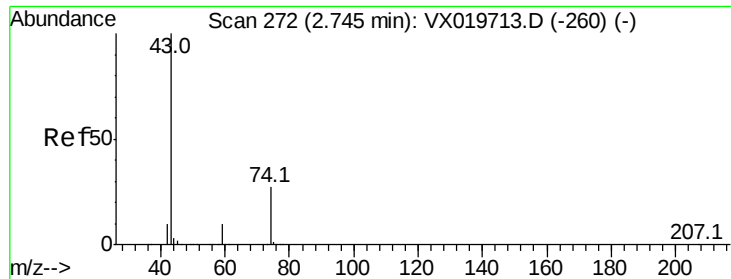


#16

Acetone
 Concen: 8.929 ug/l
 RT: 2.42 min Scan# 218
 Delta R.T. 0.00 min
 Lab File: VX019786.D
 Acq: 09 Dec 2020 18:07

Tgt Ion: 43 Resp: 14547
 Ion Ratio Lower Upper
 43 100
 58 34.4 27.8 41.8

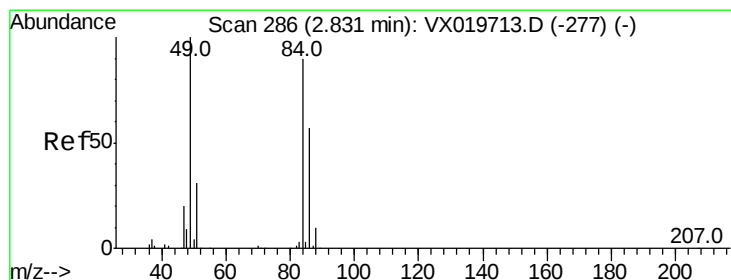
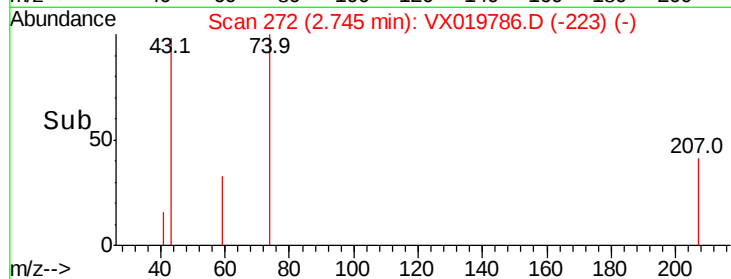
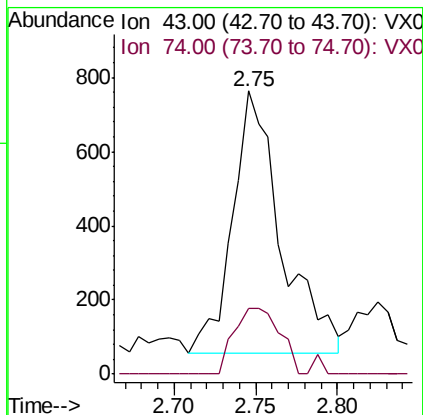
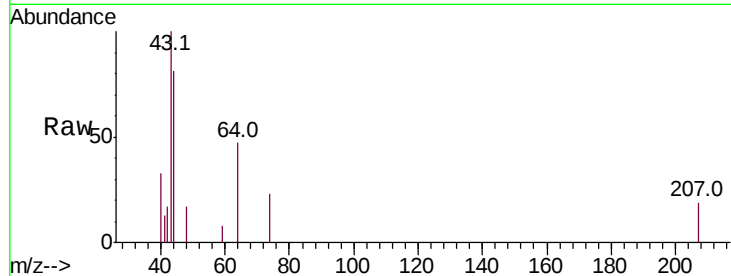




#18
Methvl Acetate
Concen: 0.371 ug/l
RT: 2.75 min Scan# 272
Delta R.T. 0.00 min
Lab File: VX019786.D
Acq: 09 Dec 2020 18:07

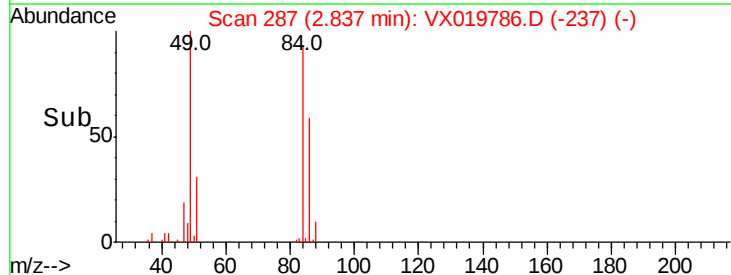
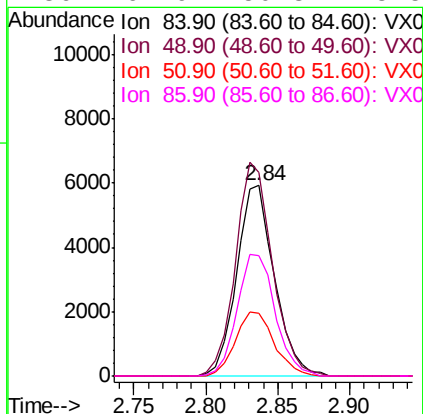
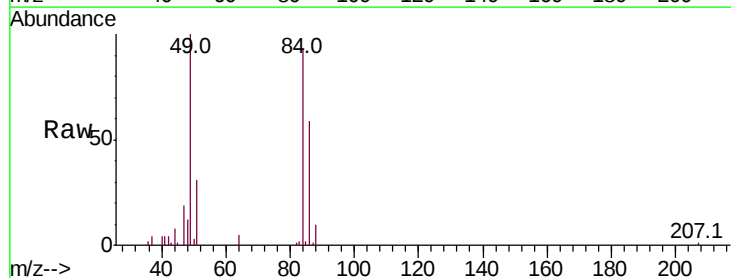
Instrument :
MSVOA_X
ClientSampleId :
5S1-D-BOTTOM

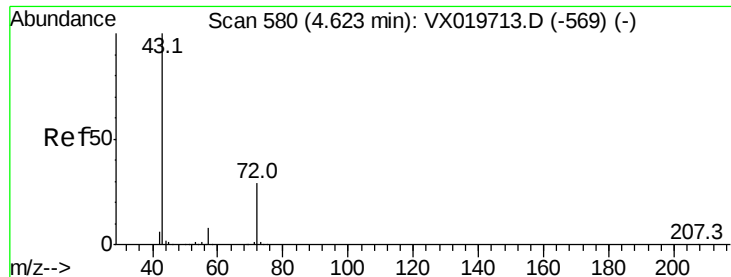
Tot Ion: 43 Resp: 1481
Ion Ratio Lower Upper
43 100
74 23.3 21.9 32.9



#20
Methylene Chloride
Concen: 1.502 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019786.D
Acq: 09 Dec 2020 18:07

Tgt Ion: 84 Resp: 10719
Ion Ratio Lower Upper
84 100
49 107.0 88.6 132.8
51 33.1 27.0 40.6
86 62.9 50.3 75.5





#25

2-Butanone

Concen: 2.655 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

Instrument :

MSVOA_X

ClientSampleId :

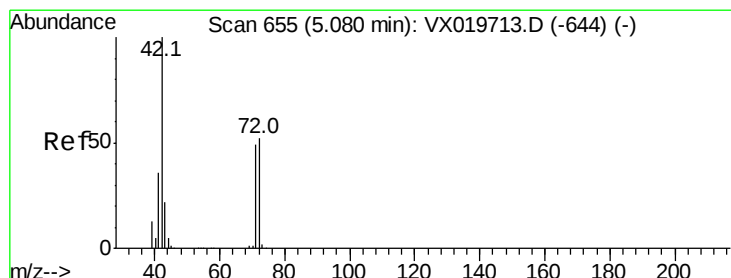
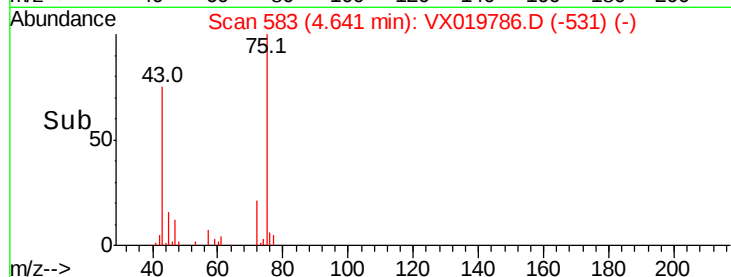
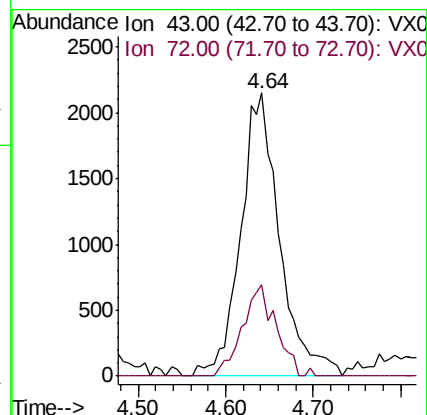
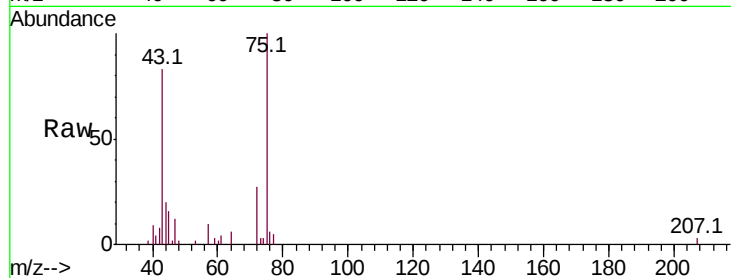
5S1-D-BOTTOM

Tot Ion: 43 Resp: 6647

Ion Ratio Lower Upper

43 100

72 32.2 23.7 35.5



#29

Tetrahydrofuran

Concen: 1.912 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.02 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

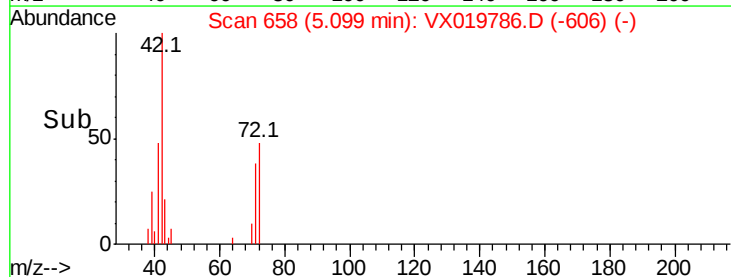
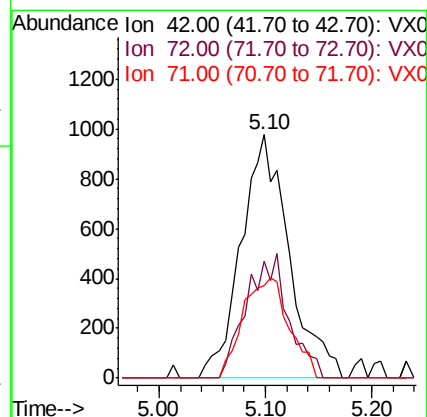
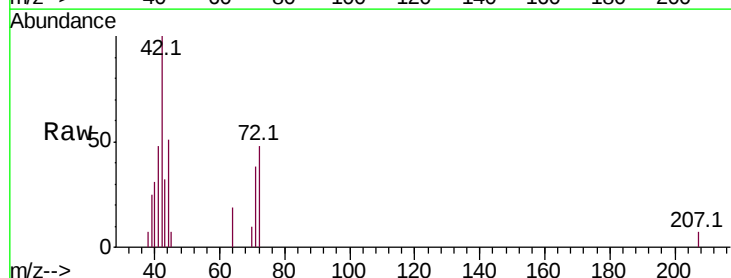
Tgt Ion: 42 Resp: 3084

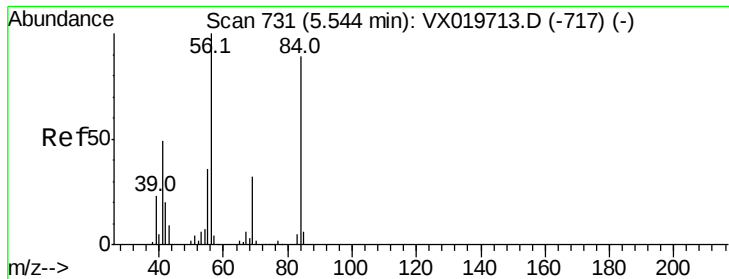
Ion Ratio Lower Upper

42 100

72 44.6 41.7 62.5

71 39.8 38.4 57.6

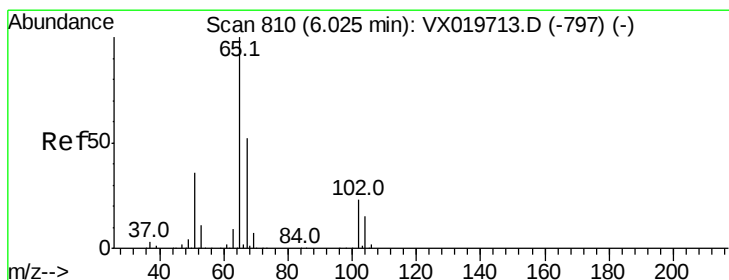
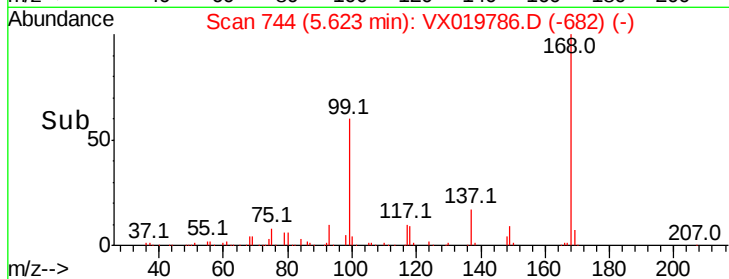
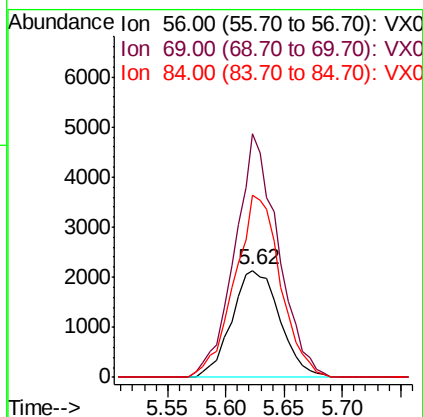
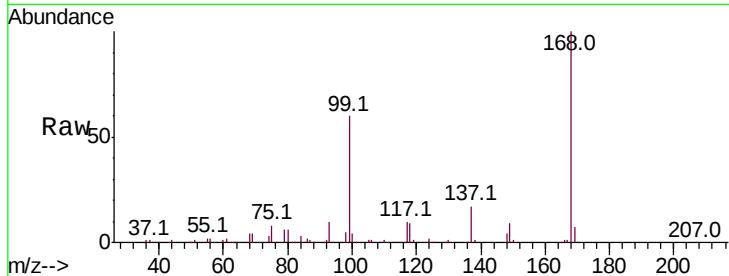




#31
Cyclohexane
Concen: 1.131 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019786.D
Acq: 09 Dec 2020 18:07

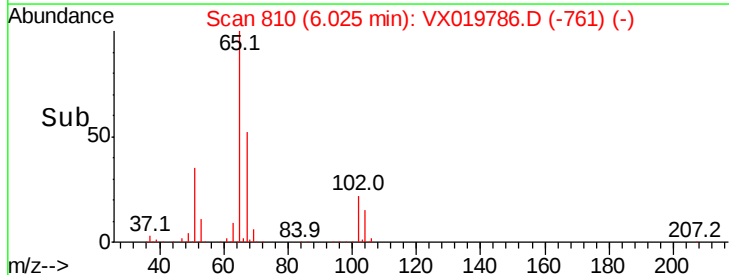
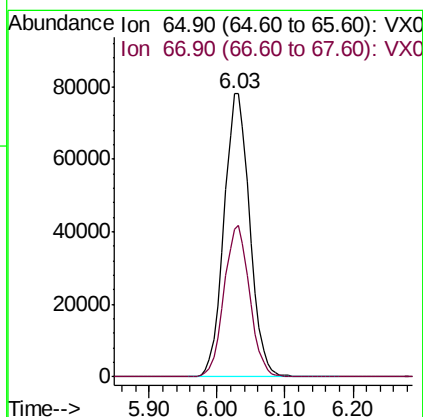
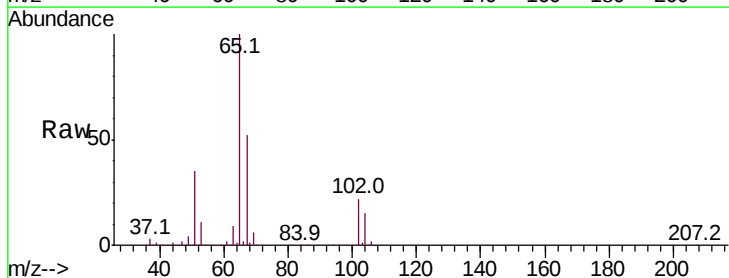
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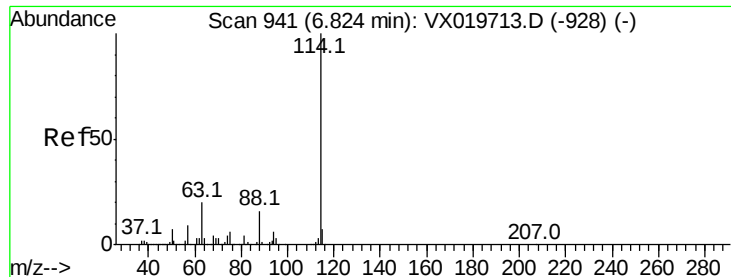
Tot Ion: 56 Resp: 6100
Ion Ratio Lower Upper
56 100
69 227.0 25.3 37.9#
84 170.2 71.4 107.0#



#33
1,2-Dichloroethane-d4
Concen: 47.164 ug/l
RT: 6.03 min Scan# 810
Delta R.T. 0.00 min
Lab File: VX019786.D
Acq: 09 Dec 2020 18:07

Tgt Ion: 65 Resp: 204435
Ion Ratio Lower Upper
65 100
67 53.2 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: VX019786.D

Acq: 09 Dec 2020 18:07

Instrument :

MSVOA_X

ClientSampleId :

5S1-D-BOTTOM

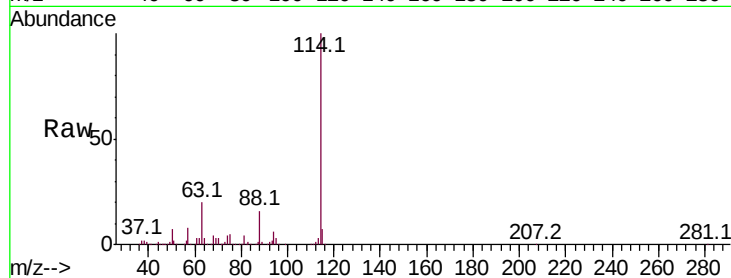
Tot Ion:114 Resp: 544896

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

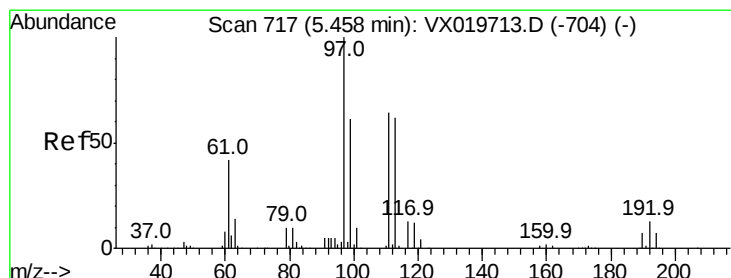
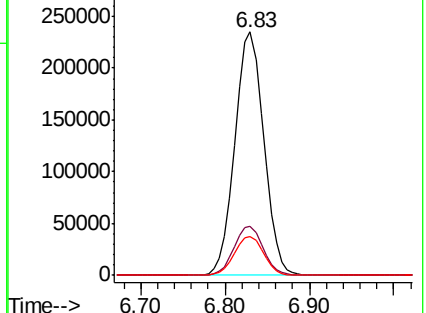
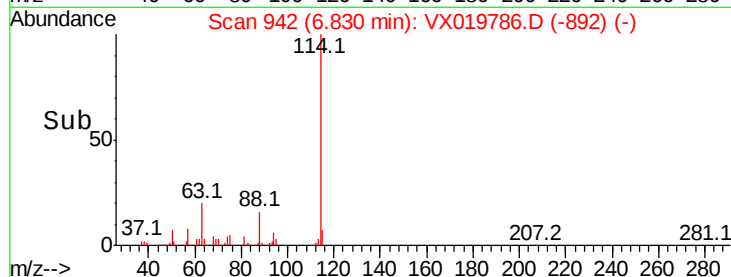
88 16.2 0.0 32.8



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: 47.435 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

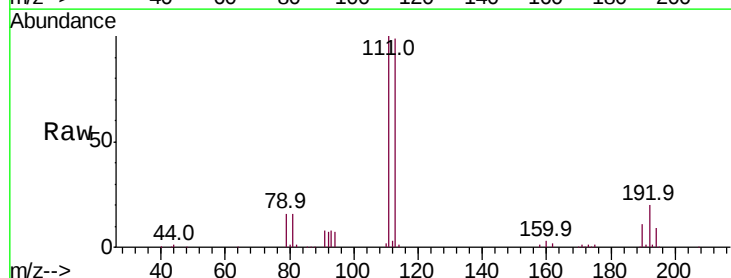
Tgt Ion:113 Resp: 167045

Ion Ratio Lower Upper

113 100

111 102.6 81.9 122.9

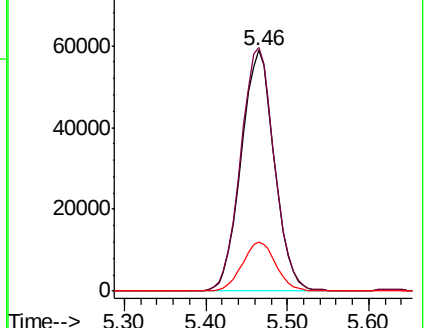
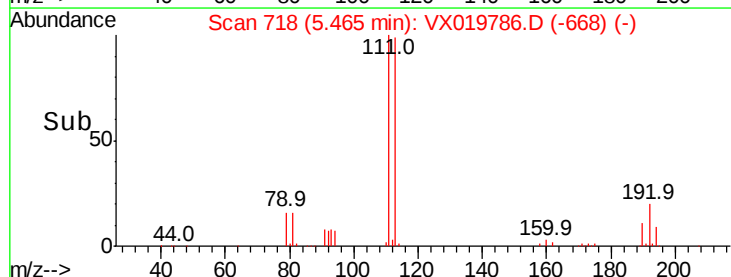
192 20.5 16.7 25.1

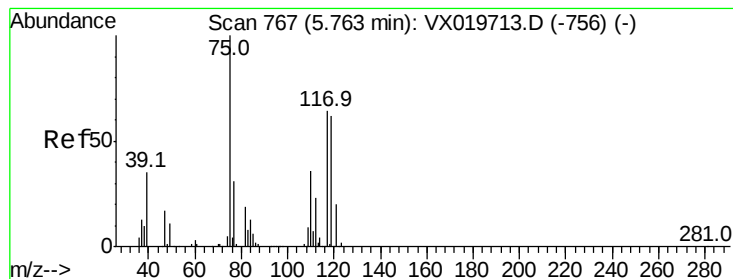


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.049 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

Instrument :

MSVOA_X

ClientSampleId :

5S1-D-BOTTOM

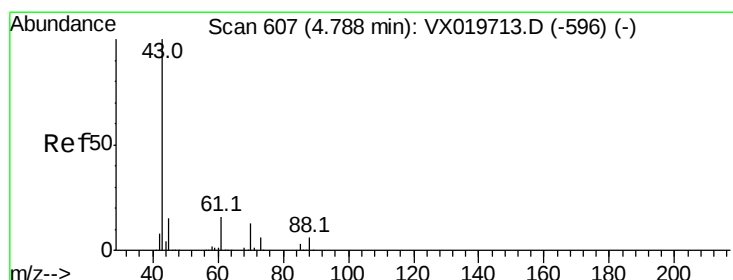
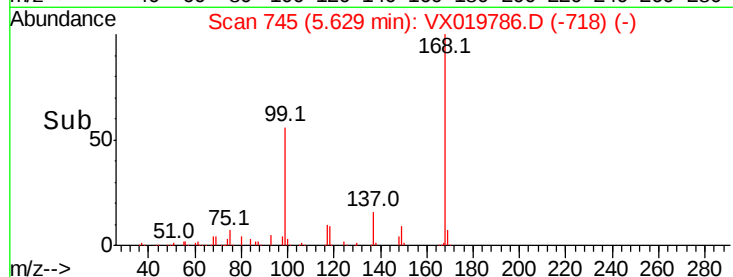
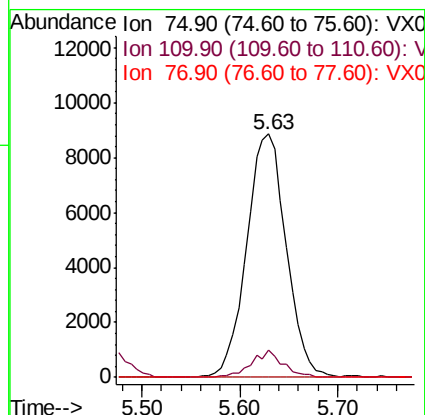
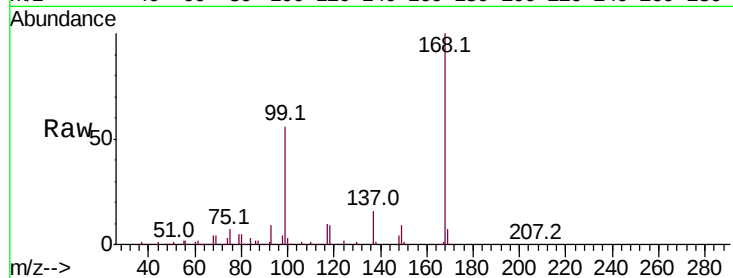
Tot Ion: 75 Resp: 24859

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.4#

77 0.0 25.3 37.9#



#37

Ethyl Acetate

Concen: 1.337 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

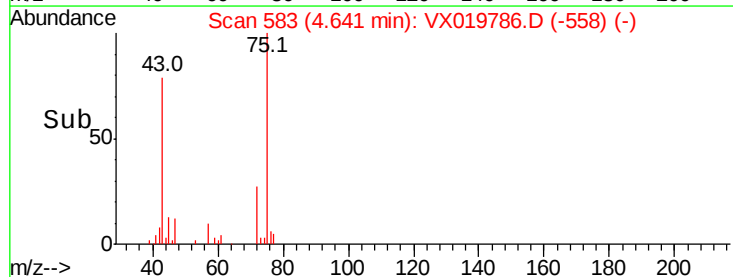
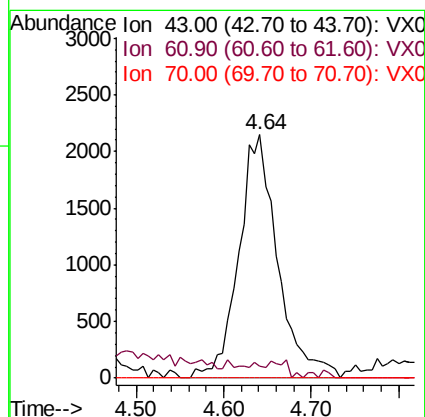
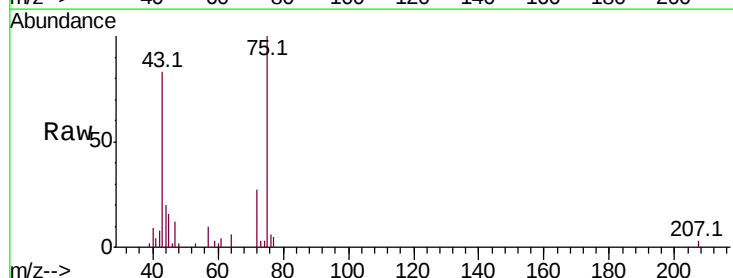
Tgt Ion: 43 Resp: 6647

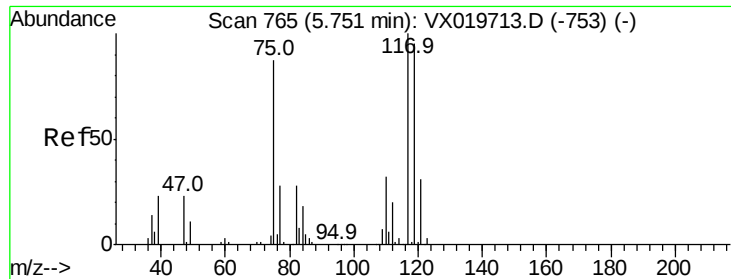
Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

70 0.0 10.5 15.7#





#38

Carbon Tetrachloride

Concen: 6.632 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

Instrument :

MSVOA_X

ClientSampleId :

5S1-D-BOTTOM

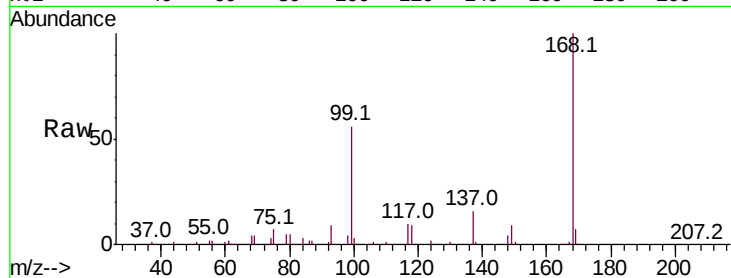
Tot Ion:117 Resp: 31977

Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.2#

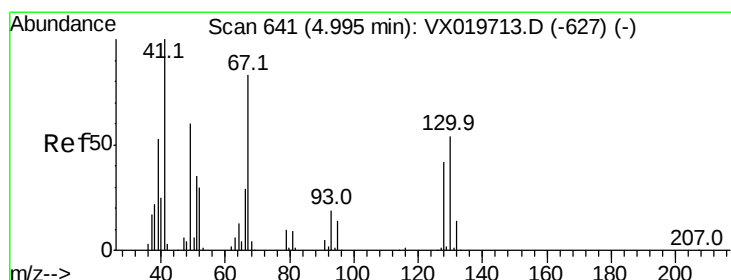
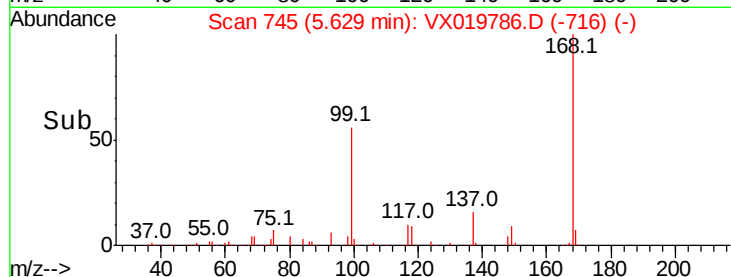
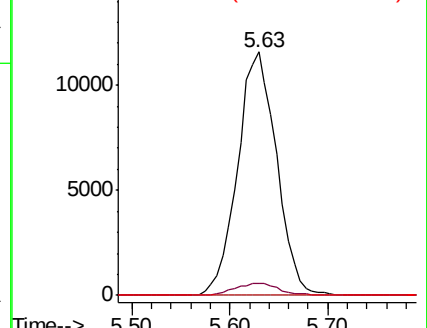
121 0.0 24.8 37.2#



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: 0.677 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.10 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

Tgt Ion: 41 Resp: 1849

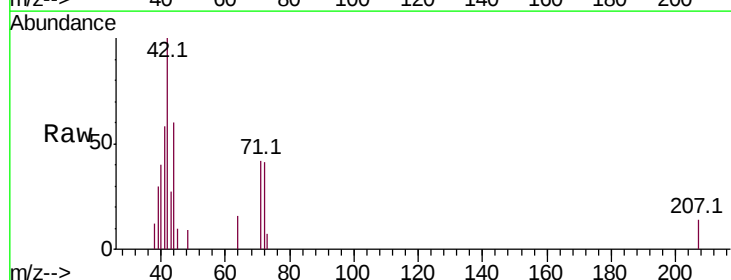
Ion Ratio Lower Upper

41 100

39 51.8 42.5 63.7

67 0.0 65.0 97.6#

52 0.0 25.3 37.9#

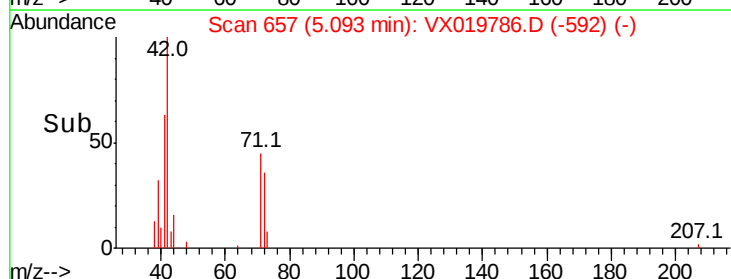
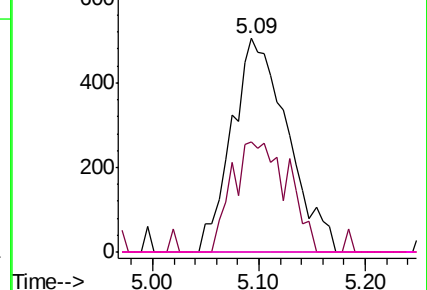


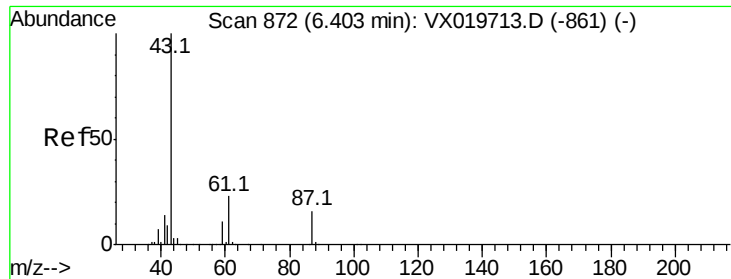
Abundance Ion 41.00 (40.70 to 41.70): VX0

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



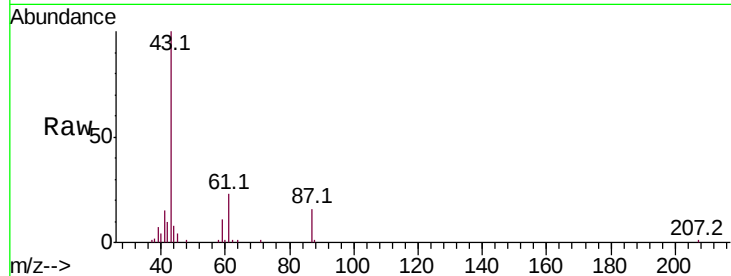


#43

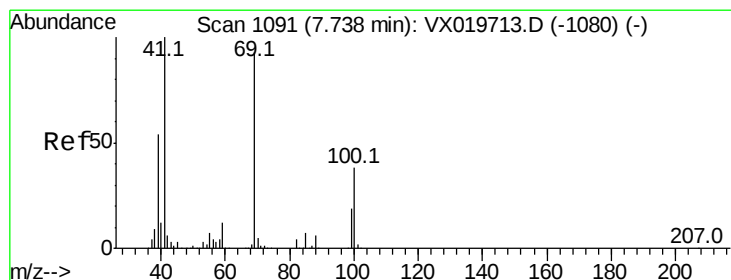
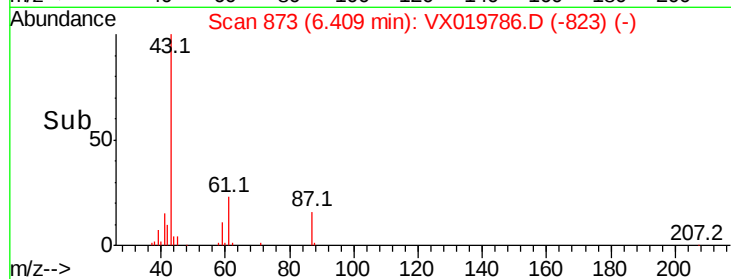
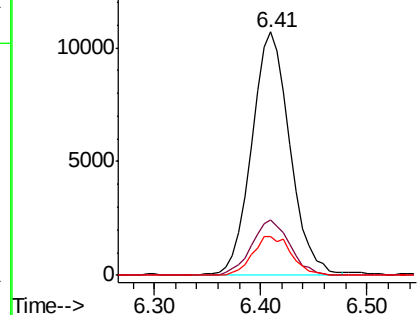
Isopropyl Acetate
 Concen: 3.333 ug/l
 RT: 6.41 min Scan# 873
 Delta R.T. 0.01 min
 Lab File: VX019786.D
 Acq: 09 Dec 2020 18:07

Instrument :
 MSVOA_X
 ClientSampleId :
 5S1-D-BOTTOM

Tot Ion: 43 Resp: 26941
 Ion Ratio Lower Upper
 43 100
 61 22.6 18.2 27.4
 87 16.2 12.5 18.7



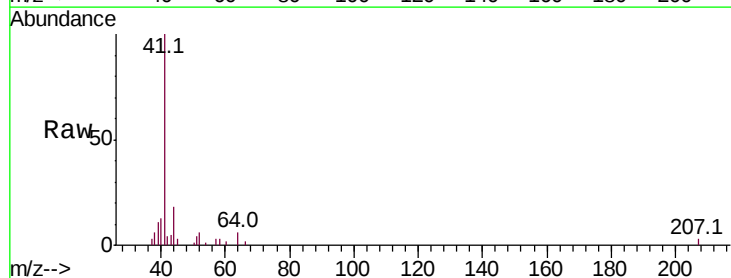
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



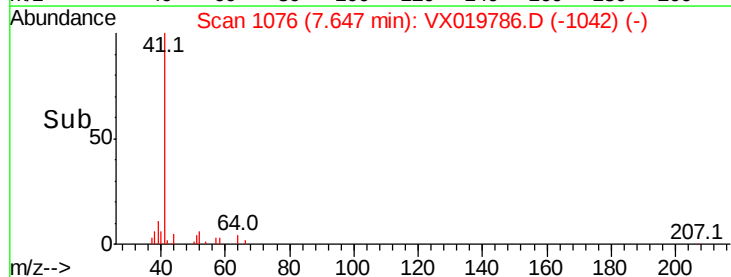
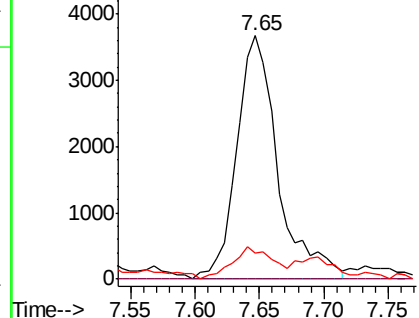
#48

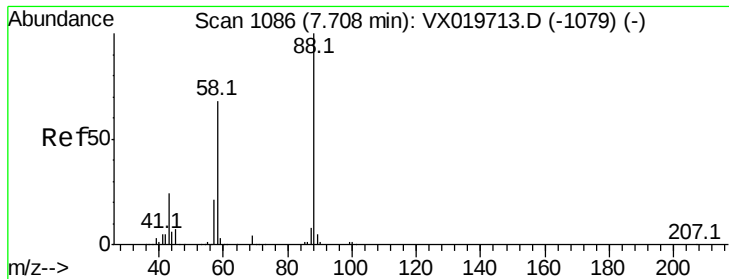
Methyl methacrylate
 Concen: 2.051 ug/l
 RT: 7.65 min Scan# 1076
 Delta R.T. -0.09 min
 Lab File: VX019786.D
 Acq: 09 Dec 2020 18:07

Tgt Ion: 41 Resp: 8153
 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: 2.845 ug/l

RT: 7.84 min Scan# 1108

Delta R.T. 0.13 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

Instrument :

MSVOA_X

ClientSampleId :

5S1-D-BOTTOM

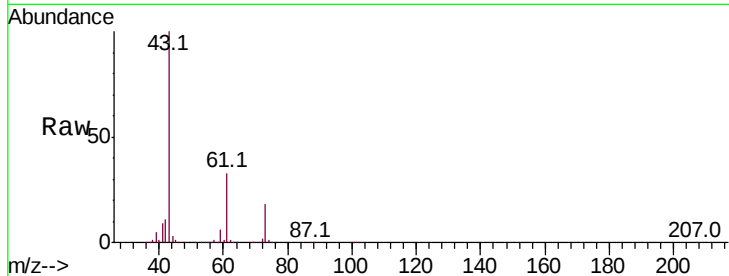
Tot Ion: 88 Resp: 274

Ion Ratio Lower Upper

88 100

43 566808.4 23.2 34.8#

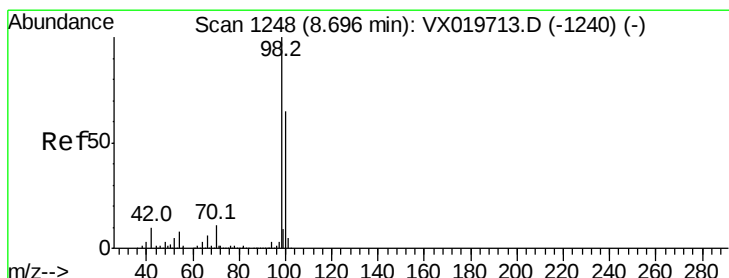
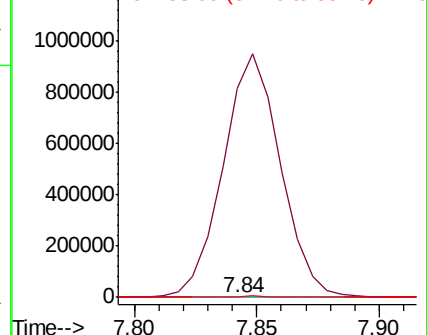
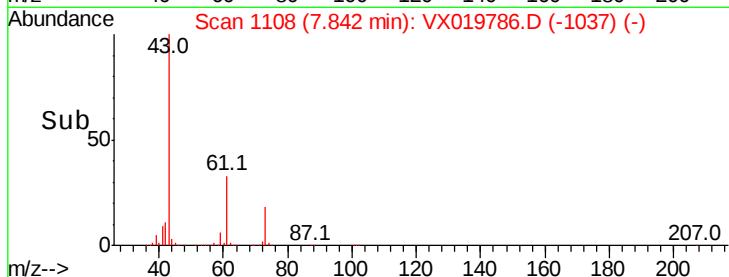
58 2773.0 55.0 82.4#



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: 49.234 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019786.D

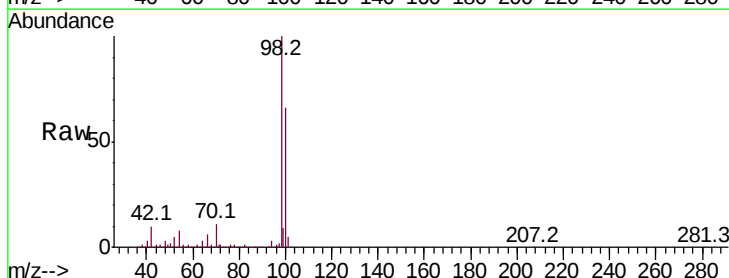
Acq: 09 Dec 2020 18:07

Tgt Ion: 98 Resp: 661924

Ion Ratio Lower Upper

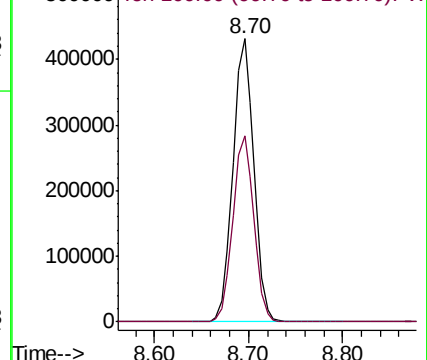
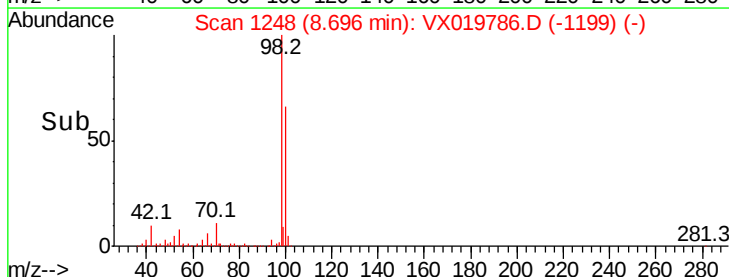
98 100

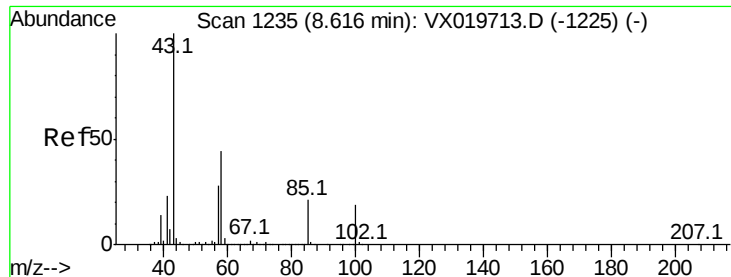
100 65.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

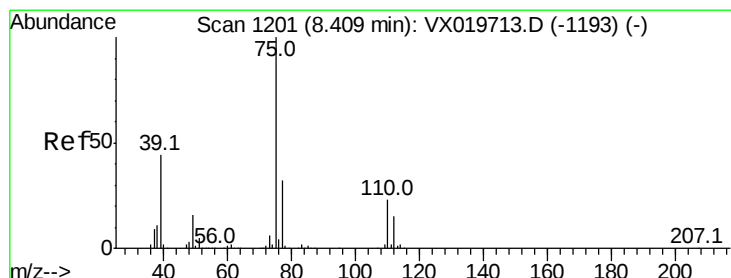
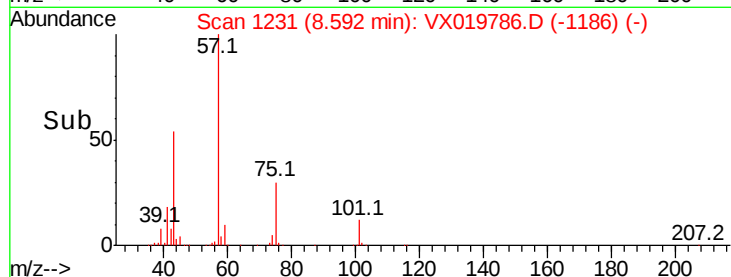
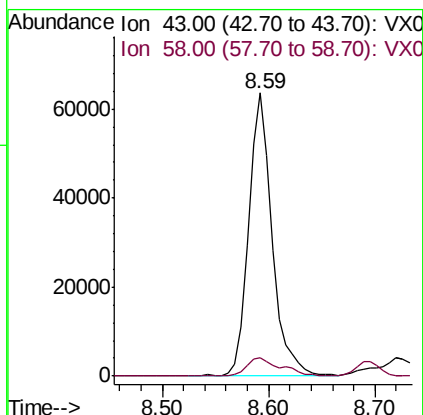
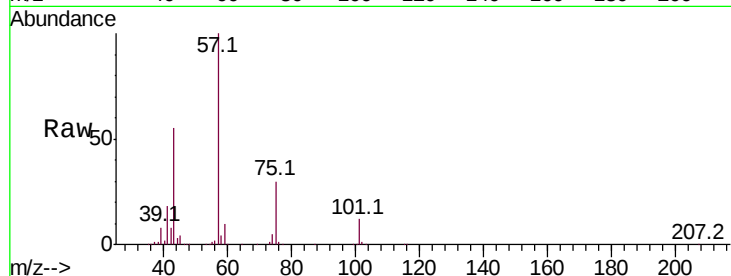




#51
4-Methyl-2-Pentanone
Concen: 19.820 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VX019786.D
Acq: 09 Dec 2020 18:07

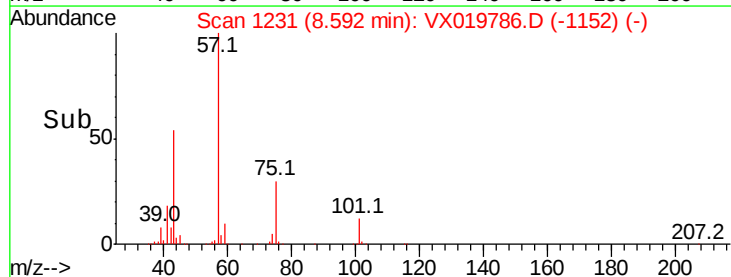
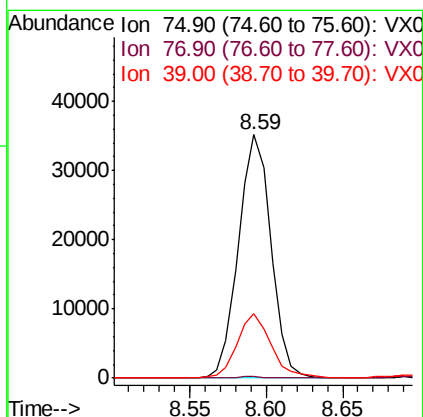
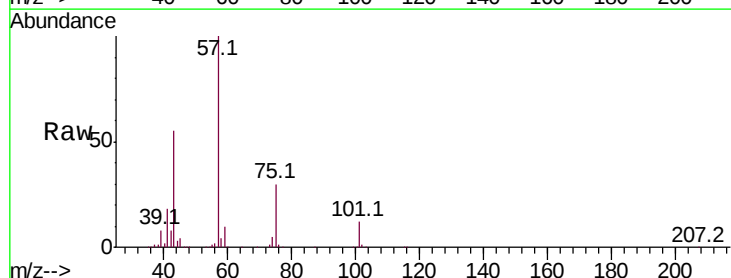
Instrument :
MSVOA_X
ClientSampleId :
5S1-D-BOTTOM

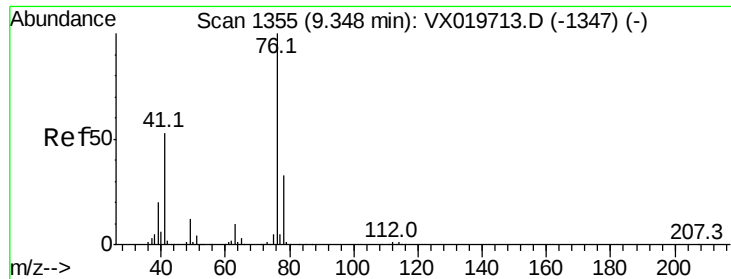
Tot Ion: 43 Resp: 97806
Ion Ratio Lower Upper
43 100
58 9.7 35.4 53.0#



#54
cis-1,3-Dichloropropene
Concen: 8.560 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. 0.18 min
Lab File: VX019786.D
Acq: 09 Dec 2020 18:07

Tgt Ion: 75 Resp: 51986
Ion Ratio Lower Upper
75 100
77 0.5 25.7 38.5#
39 26.3 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 4.825 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

Instrument :

MSVOA_X

ClientSampleId :

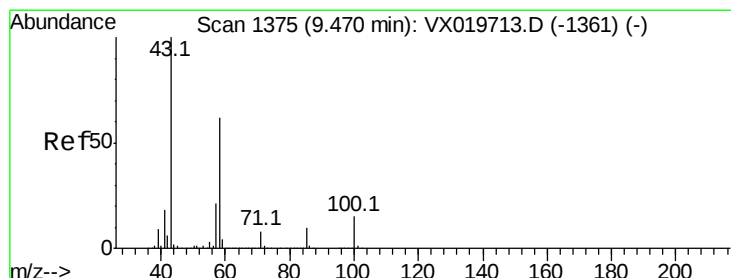
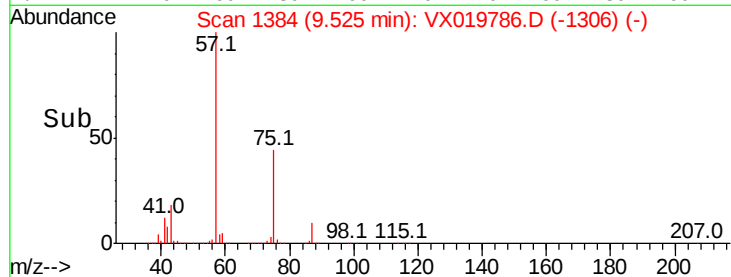
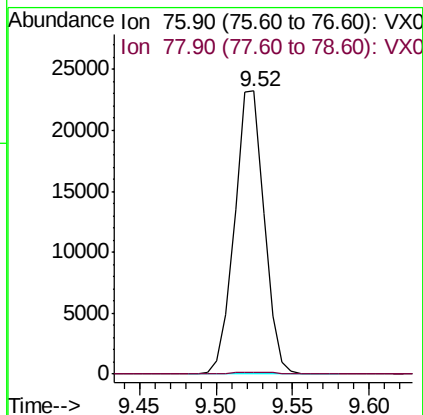
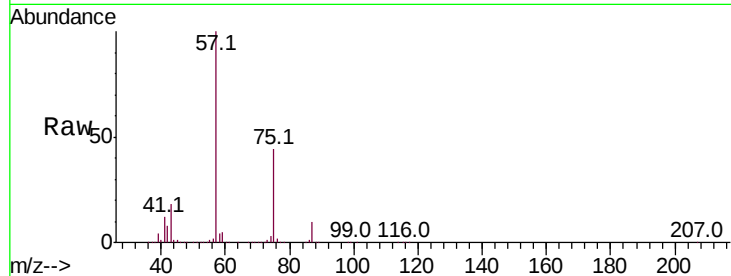
5S1-D-BOTTOM

Tot Ion: 76 Resp: 31232

Ion Ratio Lower Upper

76 100

78 0.7 26.2 39.2#



#59

2-Hexanone

Concen: 97.058 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019786.D

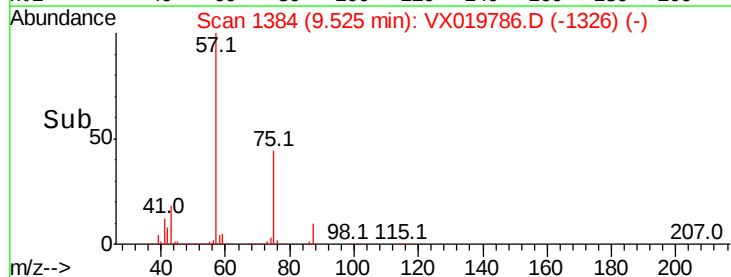
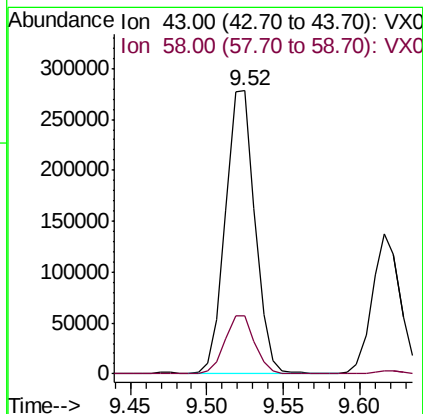
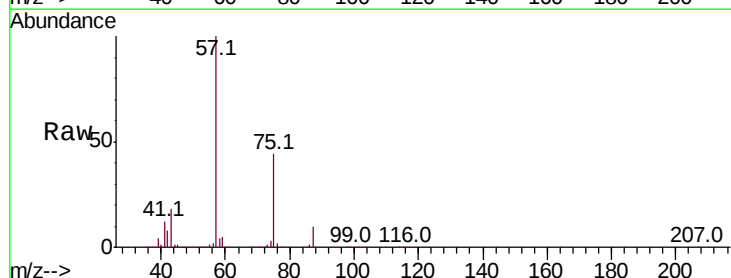
Acq: 09 Dec 2020 18:07

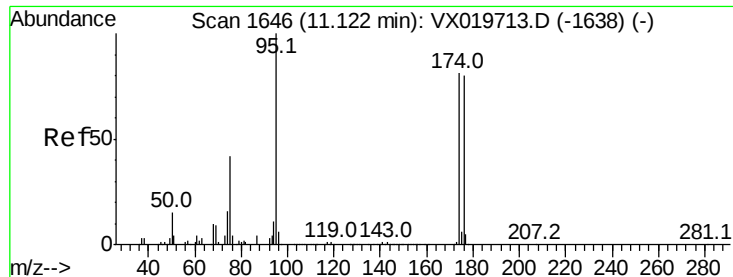
Tgt Ion: 43 Resp: 371251

Ion Ratio Lower Upper

43 100

58 20.8 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 46.049 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

Instrument :

MSVOA_X

ClientSampleId :

5S1-D-BOTTOM

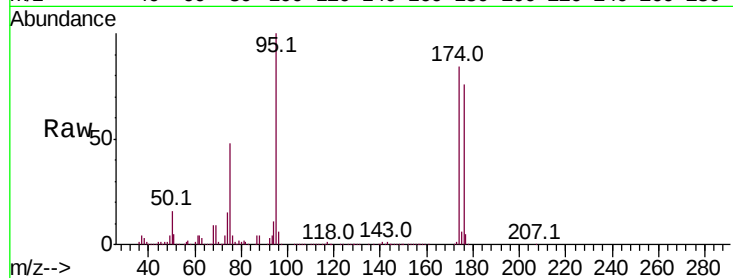
Tot Ion: 95 Resp: 235637

Ion Ratio Lower Upper

95 100

174 79.3 0.0 154.6

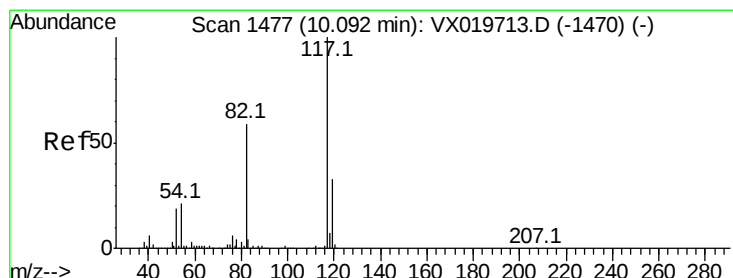
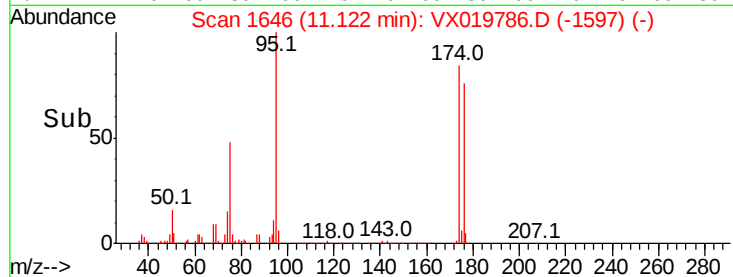
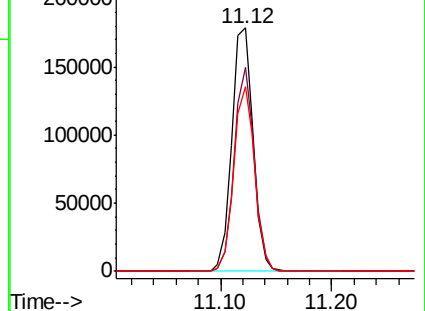
176 74.3 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX019713.D (-1638) (-)

Ion 173.80 (173.50 to 174.50): VX019713.D (-1638) (-)

Ion 175.80 (175.50 to 176.50): VX019713.D (-1638) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. 0.00 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

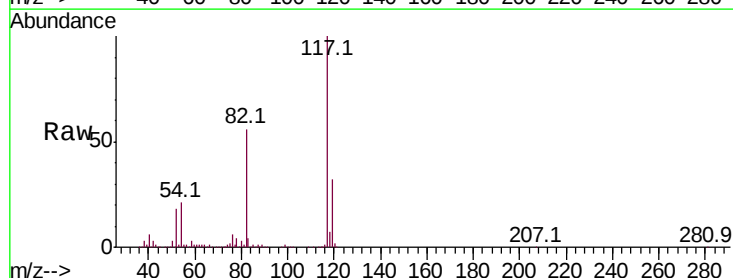
Tgt Ion: 117 Resp: 501705

Ion Ratio Lower Upper

117 100

82 56.1 47.4 71.2

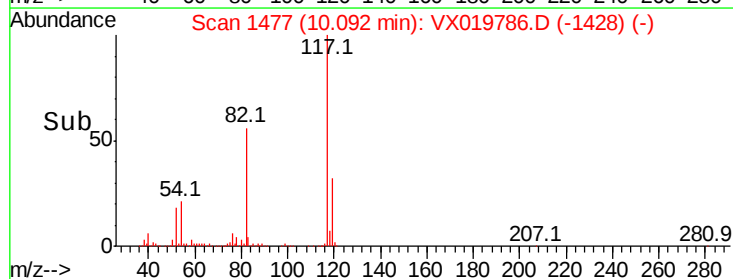
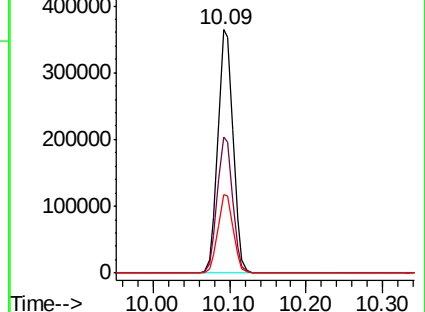
119 32.0 26.6 39.8

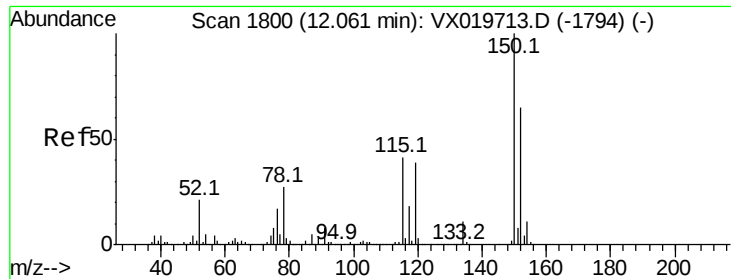


Abundance Ion 116.90 (116.60 to 117.60): VX019713.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019713.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019713.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

Instrument :

MSVOA_X

ClientSampleId :

5S1-D-BOTTOM

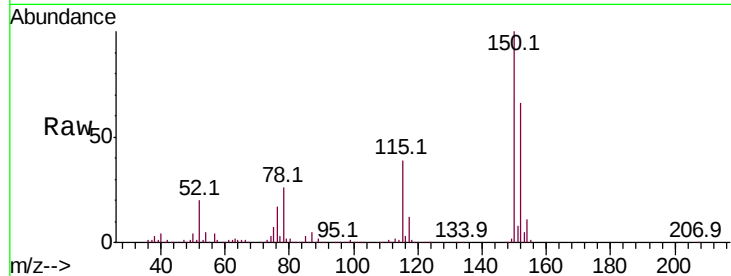
Tot Ion:152 Resp: 223849

Ion Ratio Lower Upper

152 100

115 58.8 41.1 123.3

150 155.4 0.0 349.0

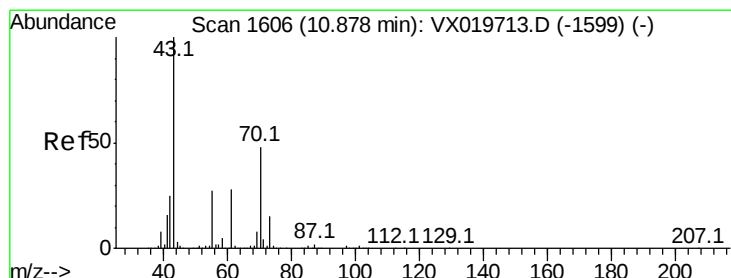
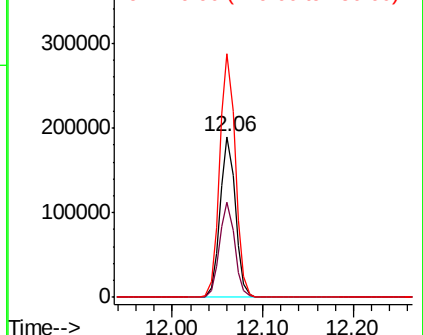
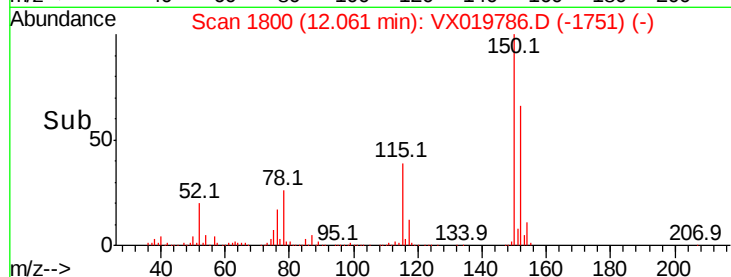


Abundance

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: 0.216 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

Tgt Ion: 43 Resp: 1325

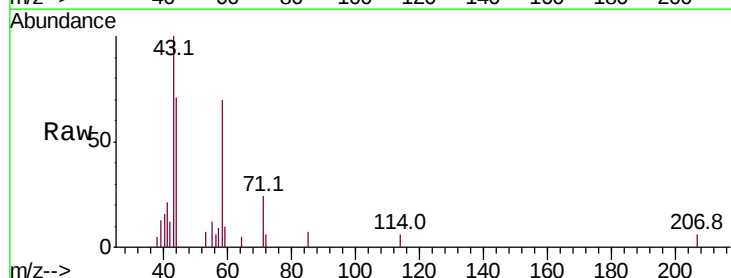
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 14.0 21.5 32.3#

61 0.0 22.1 33.1#



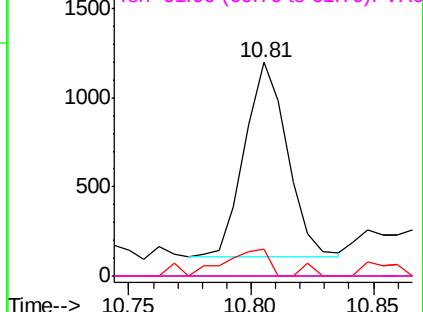
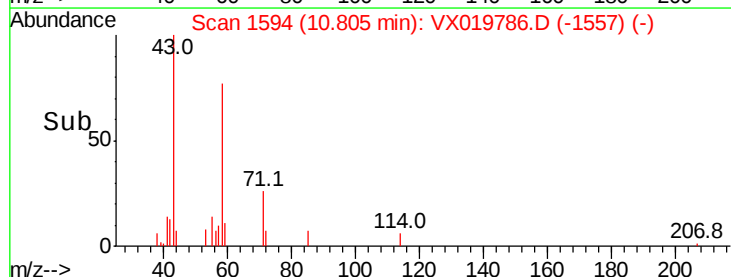
Abundance

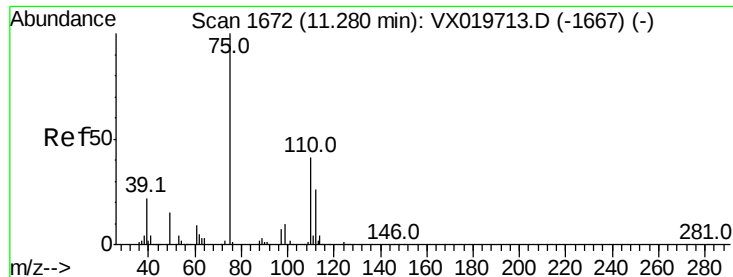
Ion 43.00 (42.70 to 43.70): VX0

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: 22.691 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

Instrument :

MSVOA_X

ClientSampleId :

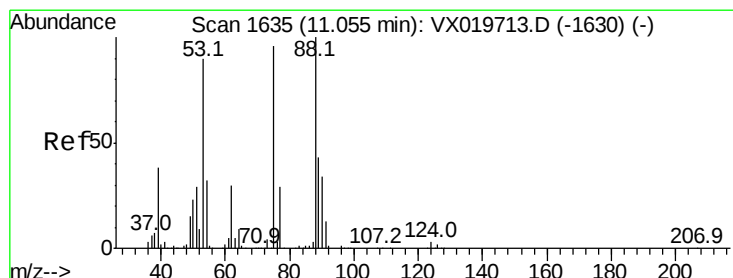
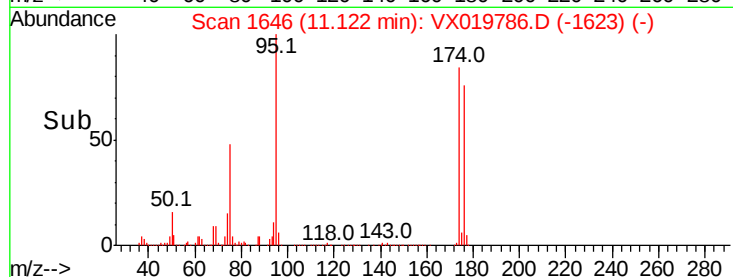
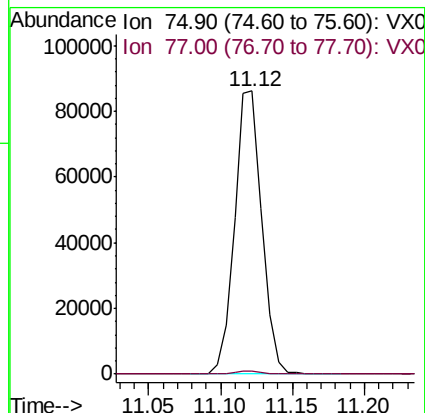
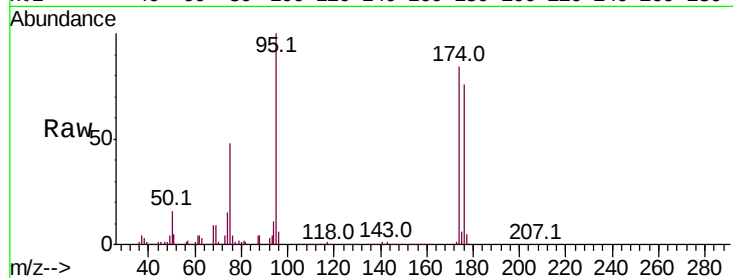
5S1-D-BOTTOM

Tot Ion: 75 Resp: 113919

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.594 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019786.D

Acq: 09 Dec 2020 18:07

Tgt Ion: 75 Resp: 113919

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

