

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019777.D
 Acq On : 09 Dec 2020 14:38
 Operator : JC/MD
 Sample : L4970-21
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 4S1-D-TOP

Quant Time: Dec 10 05:40:04 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	327498	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	539875	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	484240	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	203366	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	202167	46.97	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.94%	
35) Dibromofluoromethane		5.46	113	164783	47.23	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.46%	
50) Toluene-d8		8.70	98	651063	48.88	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.76%	
62) 4-Bromofluorobenzene		11.12	95	224194	44.22	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	88.44%	

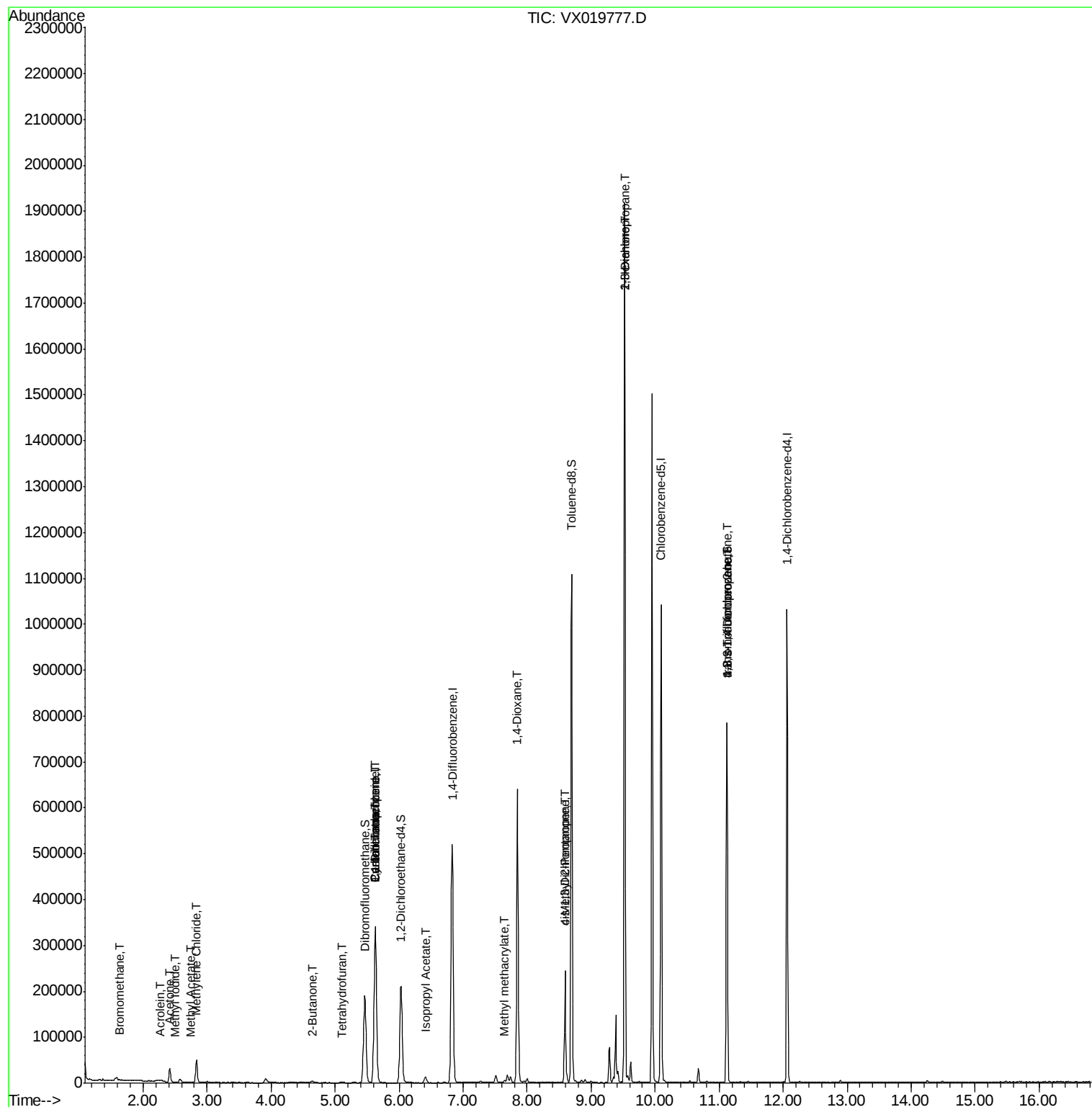
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	944	0.765	ug/l	100
10) Methyl Iodide	2.50	142	1136	0.260	ug/l	96
13) Acrolein	2.27	56	282	0.594	ug/l #	56
16) Acetone	2.42	43	30053	18.576	ug/l	97
18) Methyl Acetate	2.75	43	1363	0.344	ug/l #	80
20) Methylene Chloride	2.83	84	24007	5.226	ug/l	99
25) 2-Butanone	4.64	43	5279	2.123	ug/l	98
29) Tetrahydrofuran	5.10	42	1170	0.730	ug/l #	86
31) Cyclohexane	5.62	56	6189	1.156	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24416	5.005	ug/l #	48
38) Carbon Tetrachloride	5.63	117	31756	6.647	ug/l #	16
43) Isopropyl Acetate	6.41	43	16478	2.058	ug/l	98
48) Methyl methacrylate	7.65	41	6233	1.583	ug/l #	18
49) 1,4-Dioxane	7.84	88	49	0.514	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	76578	15.663	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	40400	6.714	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	17554	2.737	ug/l #	42
59) 2-Hexanone	9.52	43	207384	54.722	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	108093	23.699	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	108093	68.508	ug/l #	12

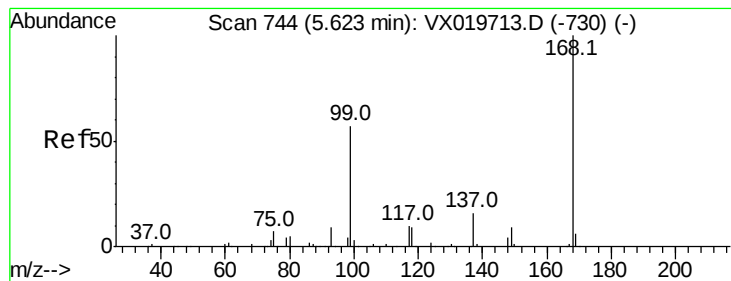
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
4S1-D-TOP

Quant Time: Dec 10 05:40:04 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: VX019777.D

Acq: 09 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampled :

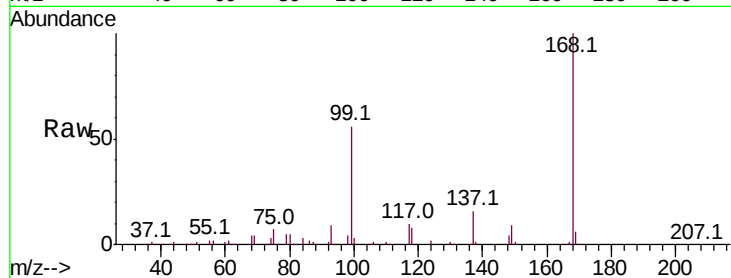
4S1-D-TOP

Tot Ion:168 Resp: 327498

Ion Ratio Lower Upper

168 100

99 55.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

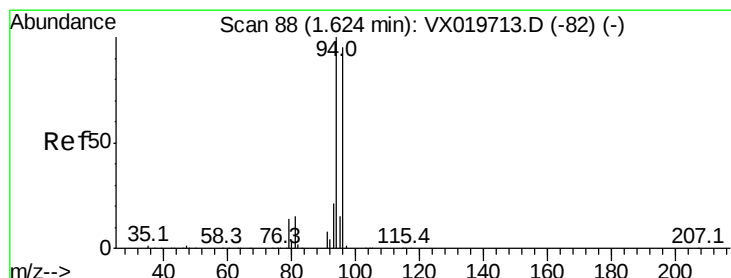
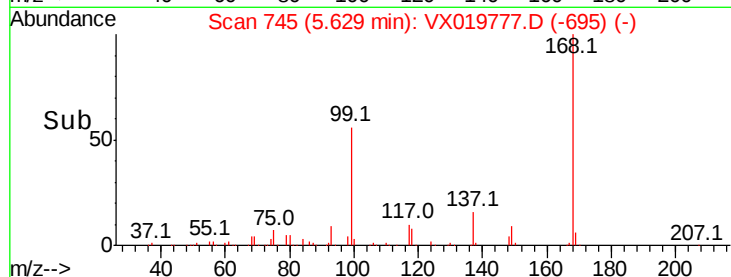
5.63

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.765 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019777.D

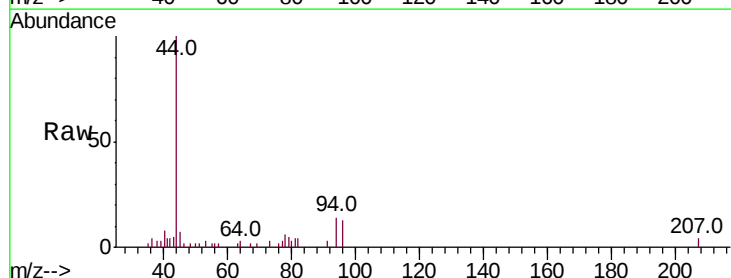
Acq: 09 Dec 2020 14:38

Tgt Ion: 94 Resp: 944

Ion Ratio Lower Upper

94 100

96 95.4 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

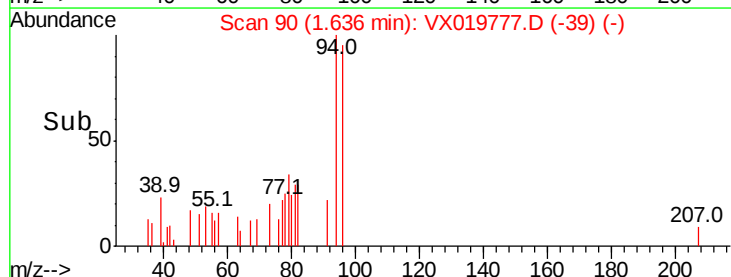
300

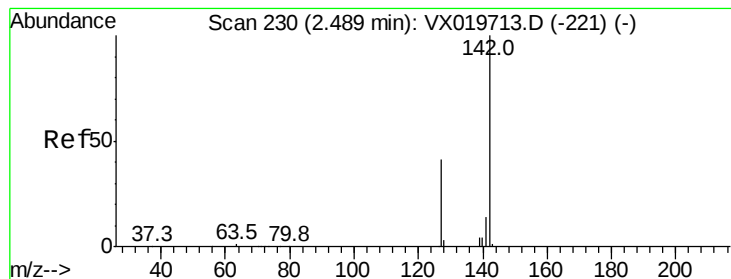
200

100

0

Time-->





#10

Methvl Iodide

Concen: 0.260 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX019777.D

Acq: 09 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

4S1-D-TOP

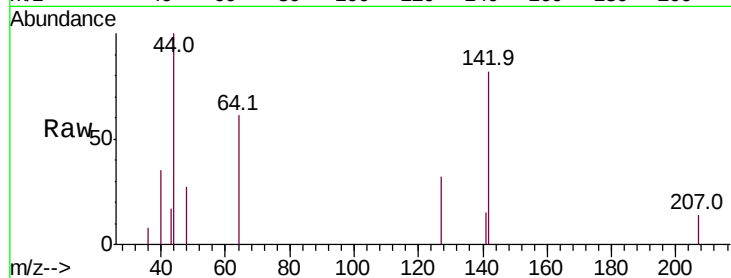
Tot Ion:142 Resp: 1136

Ion Ratio Lower Upper

142 100

127 44.4 33.3 49.9

141 12.9 11.4 17.0



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.50

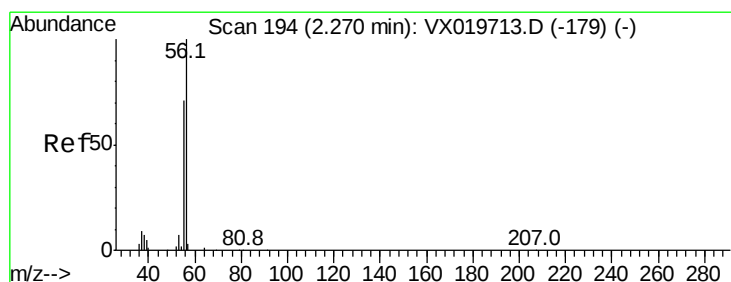
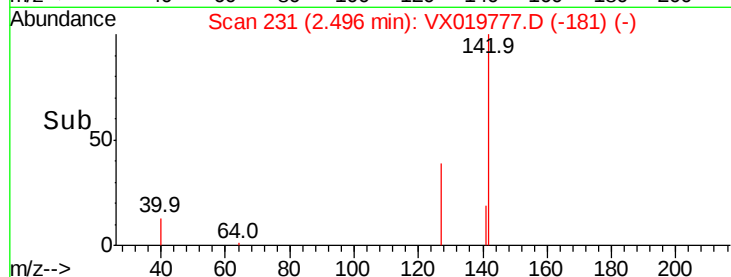
400

200

0

2.45 2.50 2.55

Time-->



#13

Acrolein

Concen: 0.594 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019777.D

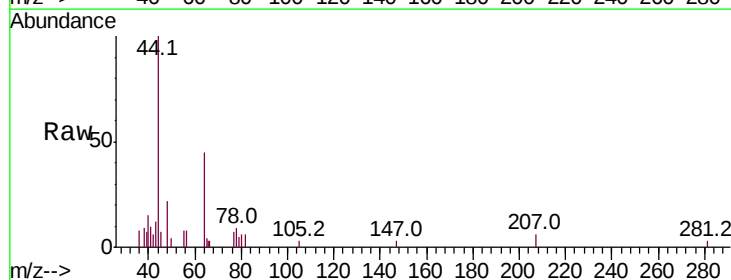
Acq: 09 Dec 2020 14:38

Tgt Ion: 56 Resp: 282

Ion Ratio Lower Upper

56 100

55 106.4 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.27

150

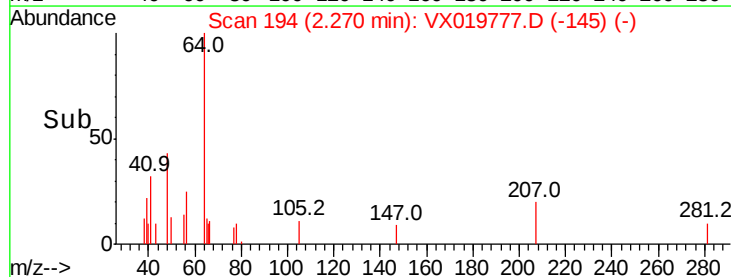
100

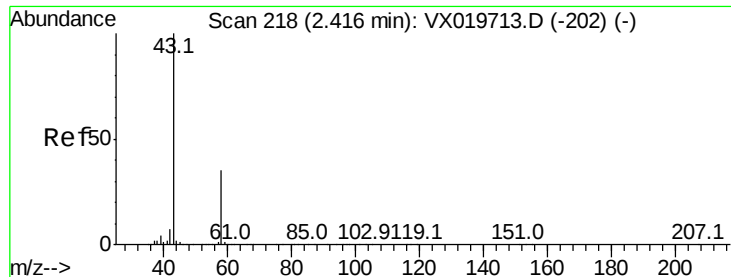
50

0

2.25 2.30

Time-->





#16

Acetone

Concen: 18.576 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019777.D

Acq: 09 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

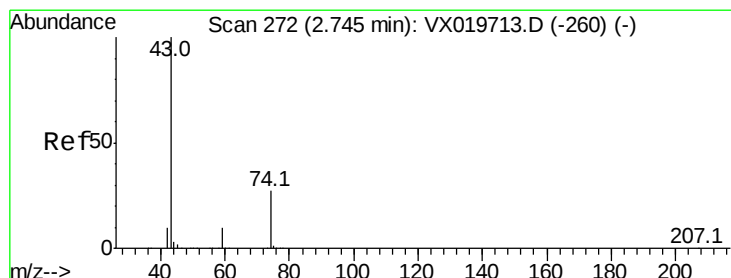
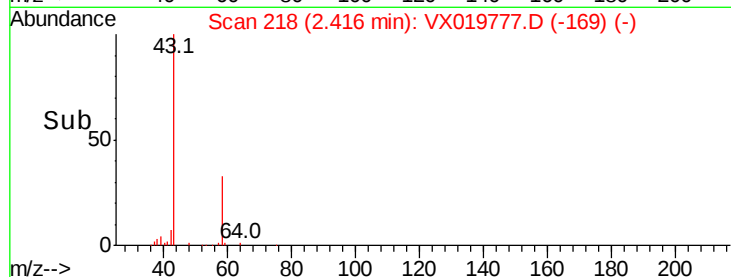
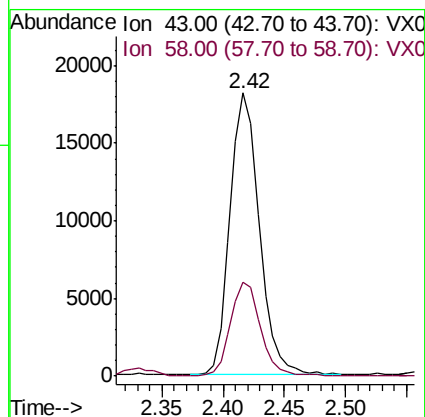
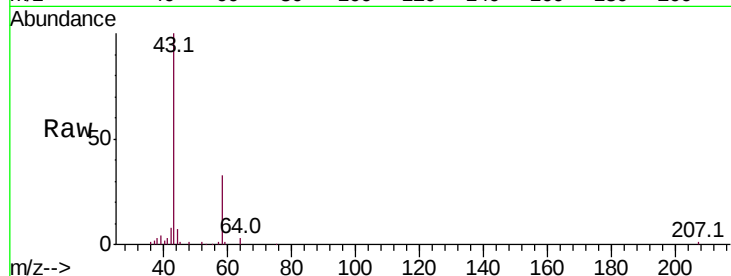
4S1-D-TOP

Tot Ion: 43 Resp: 30053

Ion Ratio Lower Upper

43 100

58 33.2 27.8 41.8



#18

Methyl Acetate

Concen: 0.344 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX019777.D

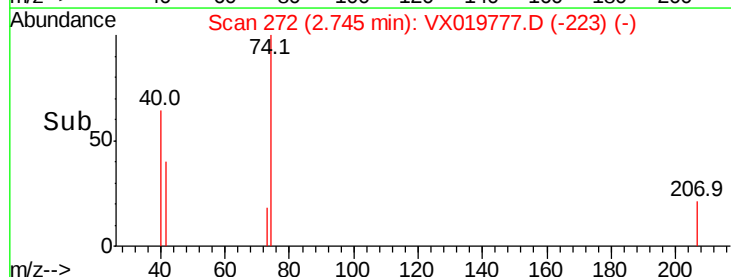
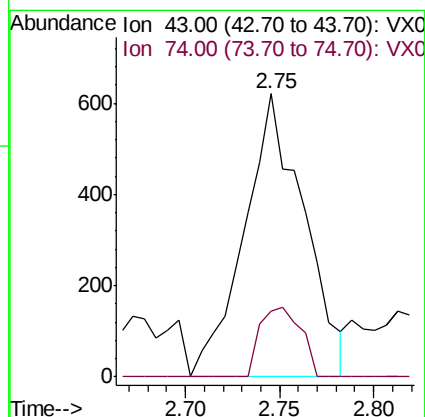
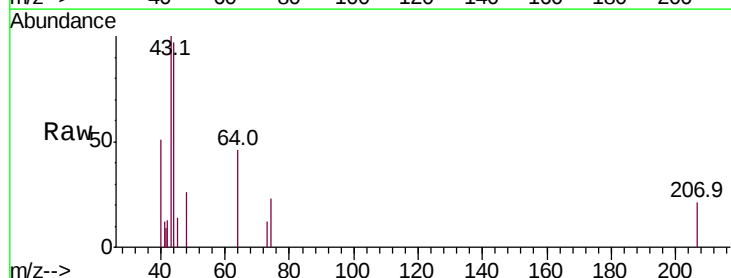
Acq: 09 Dec 2020 14:38

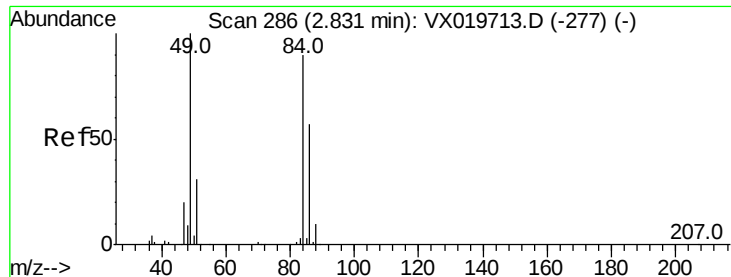
Tgt Ion: 43 Resp: 1363

Ion Ratio Lower Upper

43 100

74 16.8 21.9 32.9#

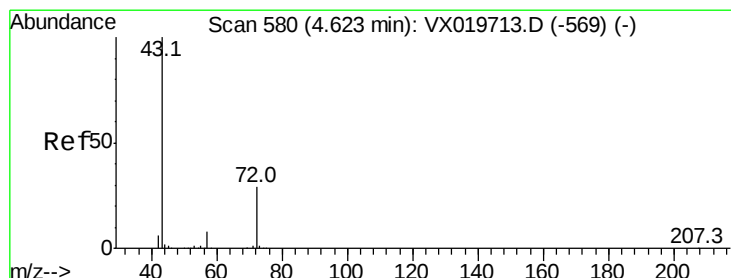
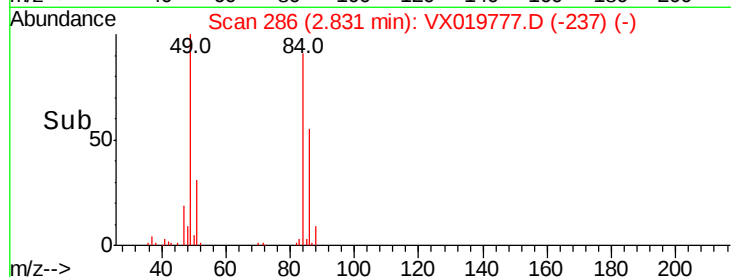
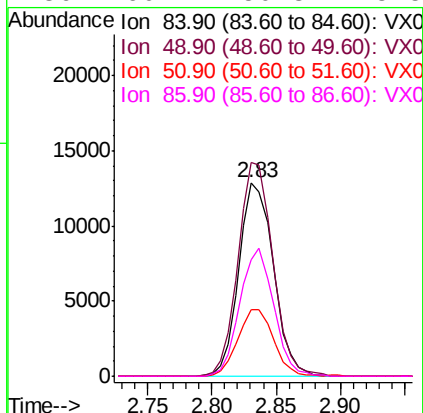
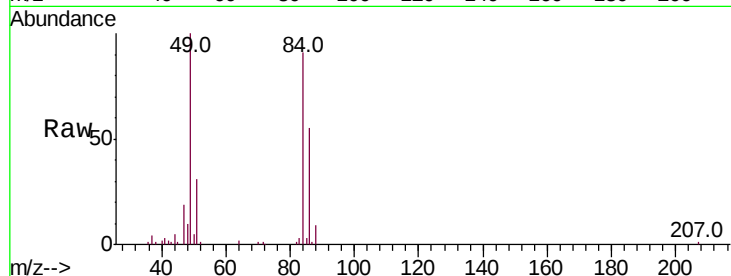




#20
Methvlene Chloride
Concen: 5.226 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019777.D
Acq: 09 Dec 2020 14:38

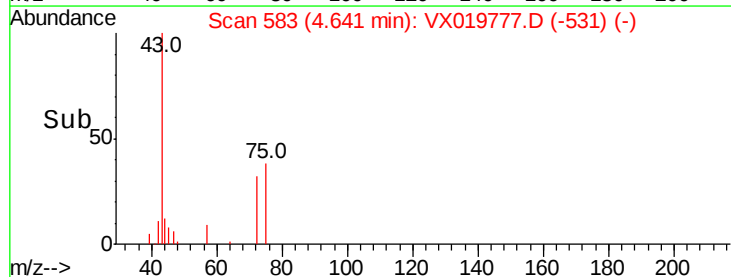
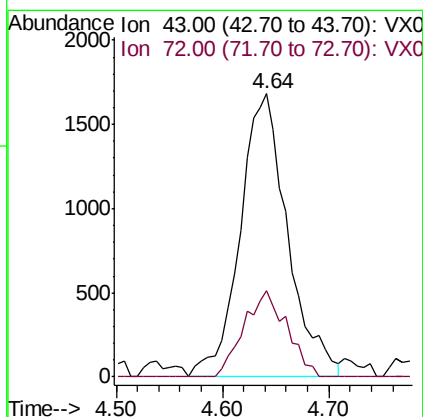
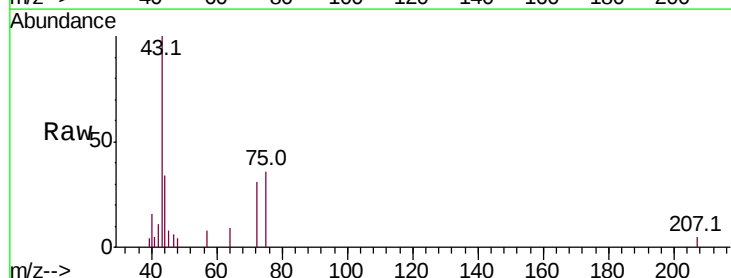
Instrument :
MSVOA_X
ClientSampled :
4S1-D-TOP

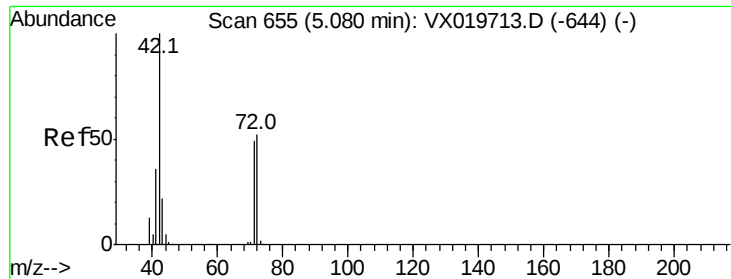
Tot Ion:	84	Resp:	24007
Ion	Ratio	Lower	Upper
84	100		
49	110.5	88.6	132.8
51	34.8	27.0	40.6
86	60.4	50.3	75.5



#25
2-Butanone
Concen: 2.123 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX019777.D
Acq: 09 Dec 2020 14:38

Tgt Ion:	43	Resp:	5279
Ion	Ratio	Lower	Upper
43	100		
72	30.6	23.7	35.5





#29

Tetrahydrofuran

Concen: 0.730 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX019777.D

Acq: 09 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

4S1-D-TOP

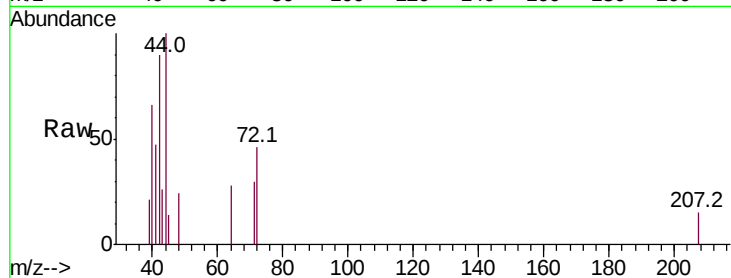
Tot Ion: 42 Resp: 1170

Ion Ratio Lower Upper

42 100

72 44.6 41.7 62.5

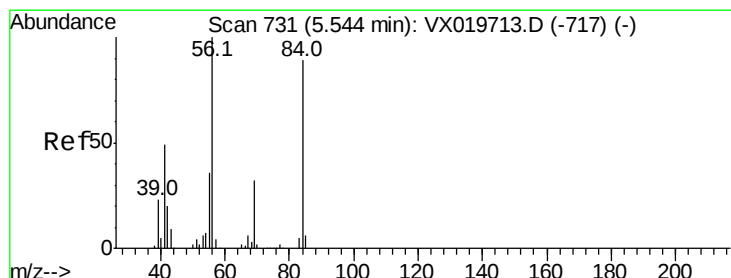
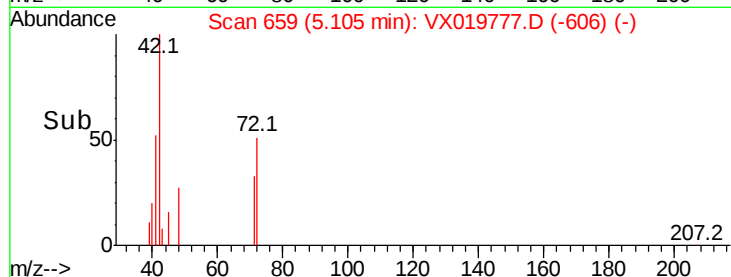
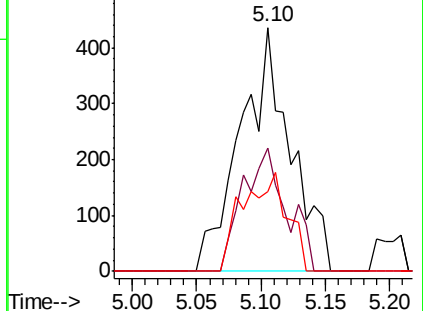
71 36.7 38.4 57.6#



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: 1.156 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019777.D

Acq: 09 Dec 2020 14:38

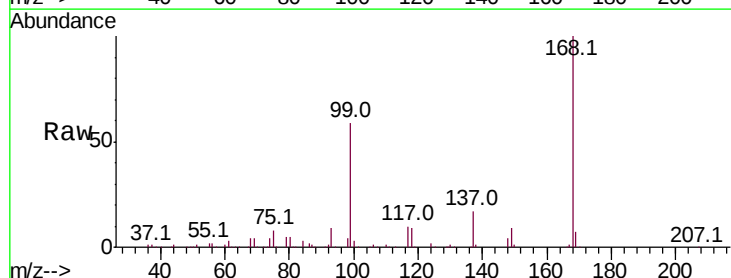
Tgt Ion: 56 Resp: 6189

Ion Ratio Lower Upper

56 100

69 174.7 25.3 37.9#

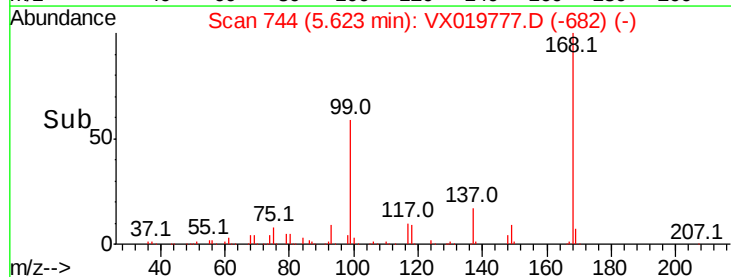
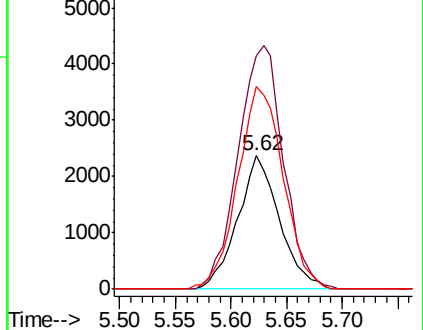
84 151.5 71.4 107.0#

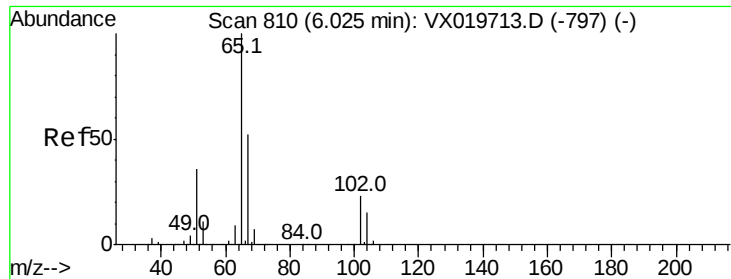


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

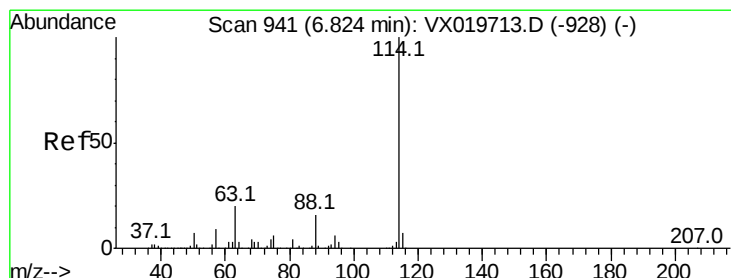
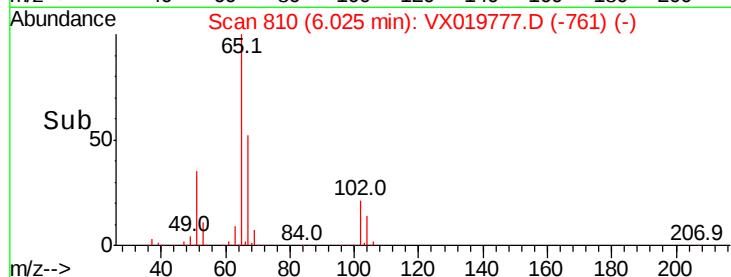
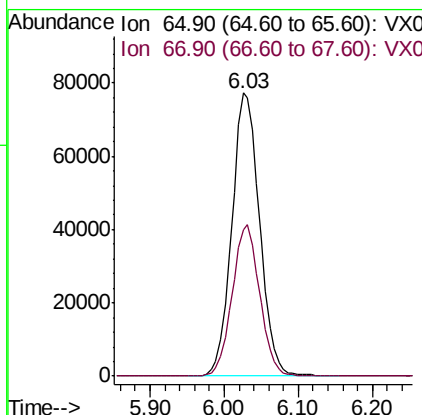
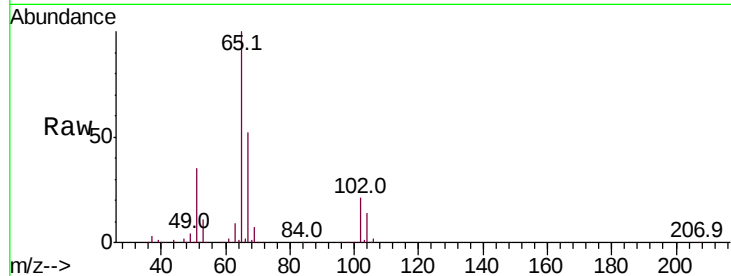




#33
 1,2-Dichloroethane-d4
 Concen: 46.969 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VX019777.D
 Acq: 09 Dec 2020 14:38

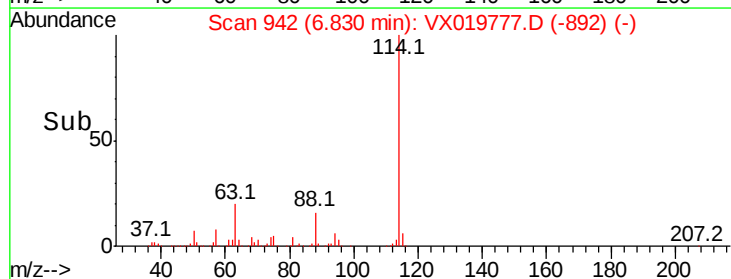
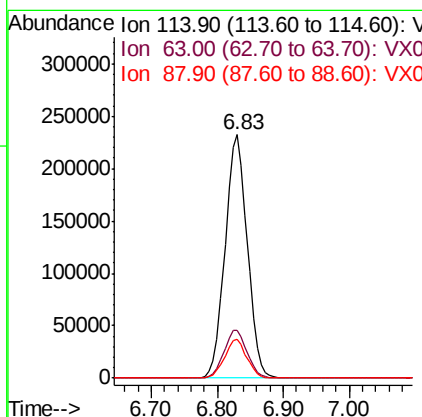
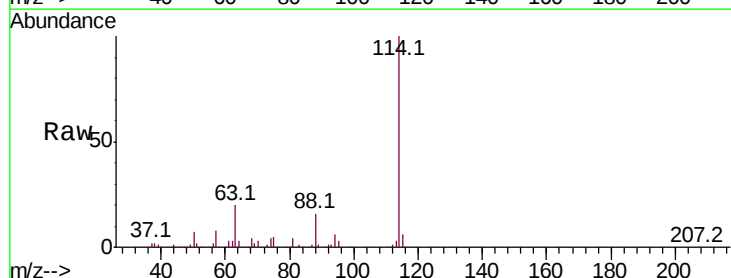
Instrument :
 MSVOA_X
 ClientSampleId :
 4S1-D-TOP

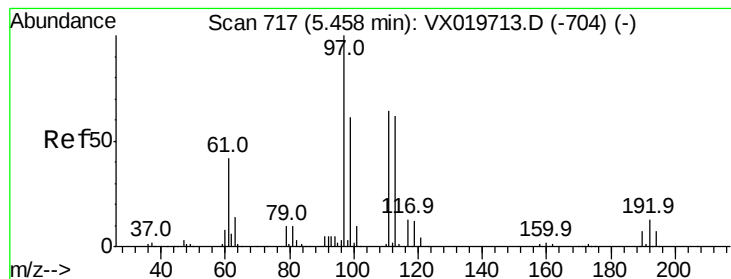
Tot Ion: 65 Resp: 202167
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019777.D
 Acq: 09 Dec 2020 14:38

Tgt Ion: 114 Resp: 539875
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.8
 88 15.9 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.228 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019777.D

Acq: 09 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

4S1-D-TOP

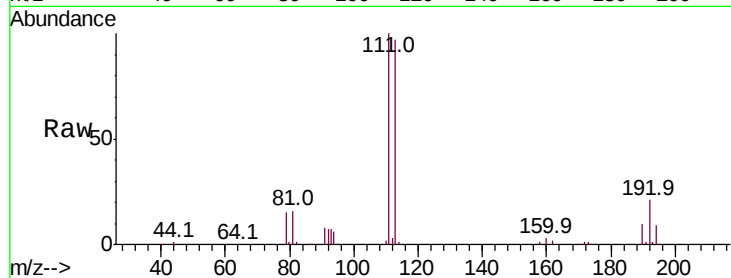
Tot Ion:113 Resp: 164783

Ion Ratio Lower Upper

113 100

111 102.8 81.9 122.9

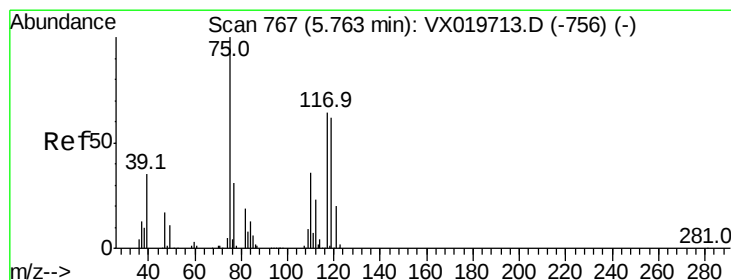
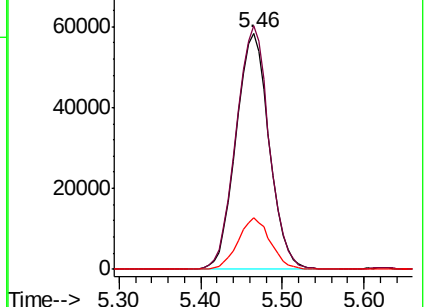
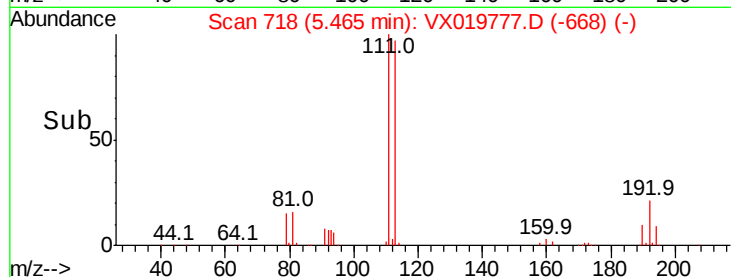
192 21.2 16.7 25.1



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: 5.005 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019777.D

Acq: 09 Dec 2020 14:38

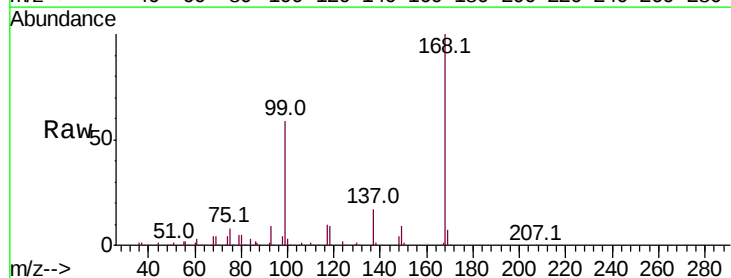
Tgt Ion: 75 Resp: 24416

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.4#

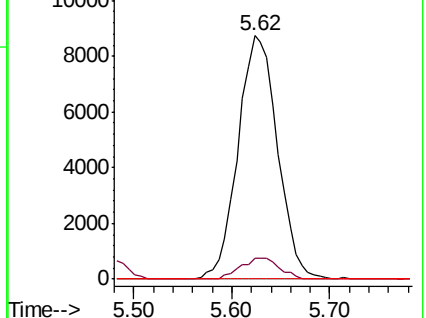
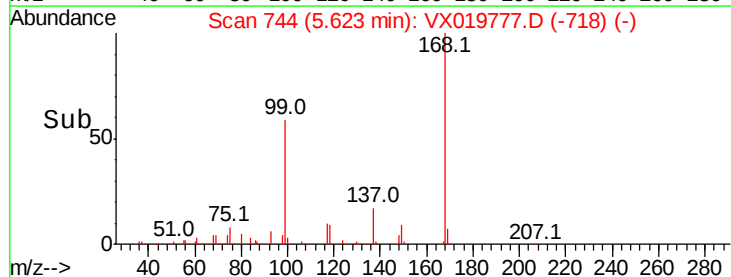
77 0.0 25.3 37.9#

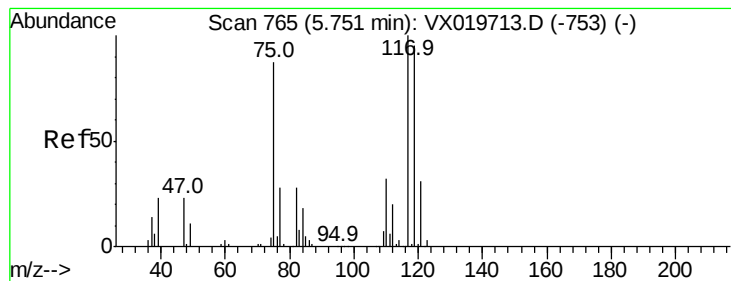


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.647 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019777.D

Acq: 09 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

4S1-D-TOP

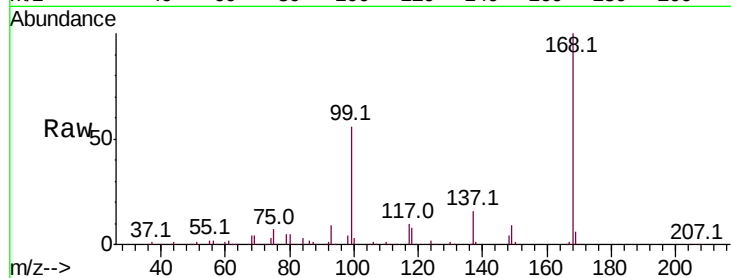
Tot Ion:117 Resp: 31756

Ion Ratio Lower Upper

117 100

119 4.7 76.2 114.2#

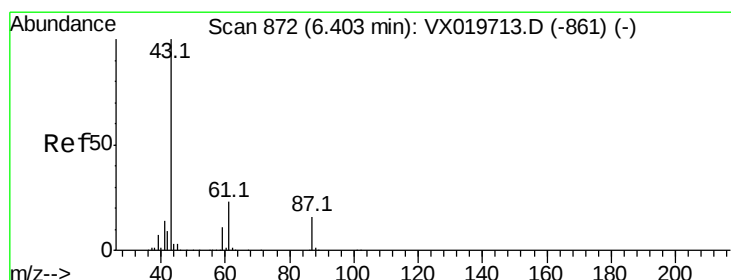
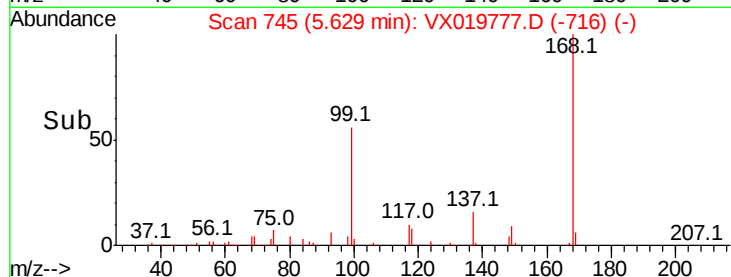
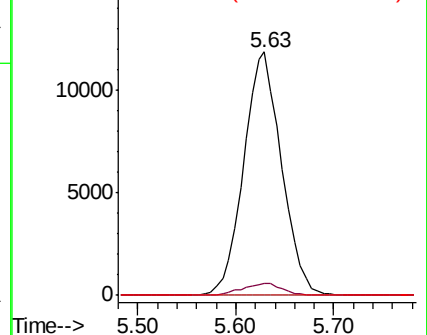
121 0.0 24.8 37.2#



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



#43

Isopropyl Acetate

Concen: 2.058 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019777.D

Acq: 09 Dec 2020 14:38

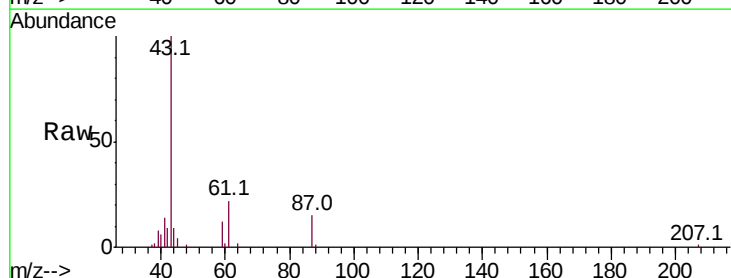
Tgt Ion: 43 Resp: 16478

Ion Ratio Lower Upper

43 100

61 21.8 18.2 27.4

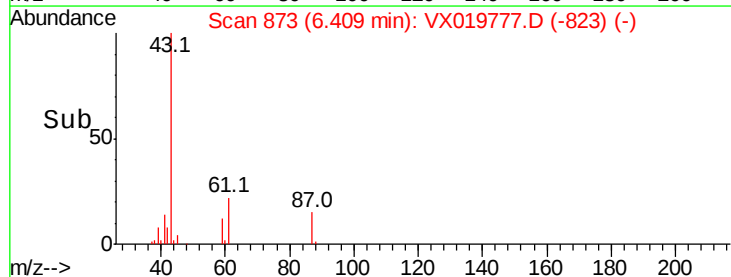
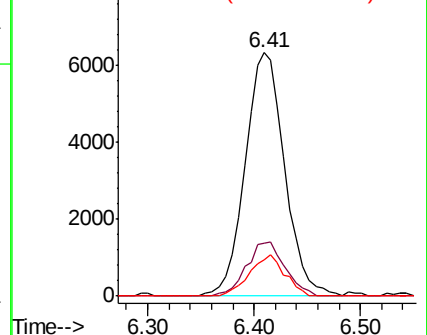
87 15.3 12.5 18.7

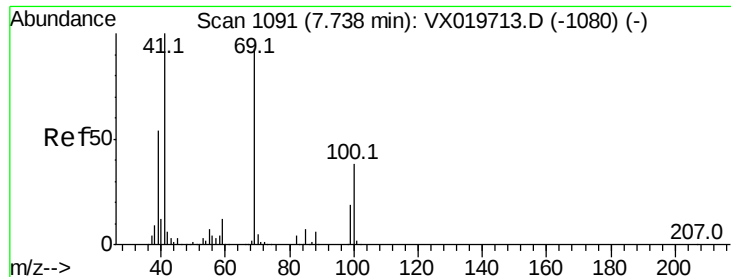


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

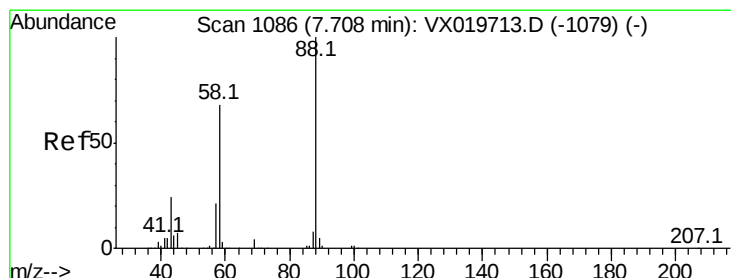
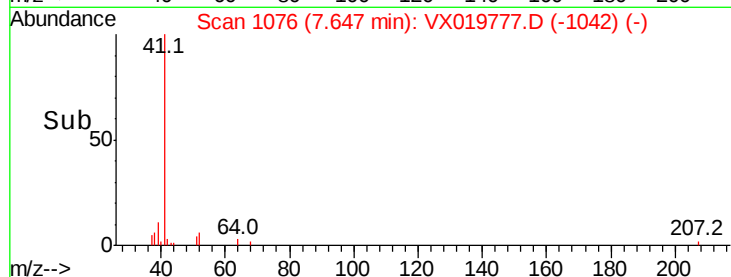
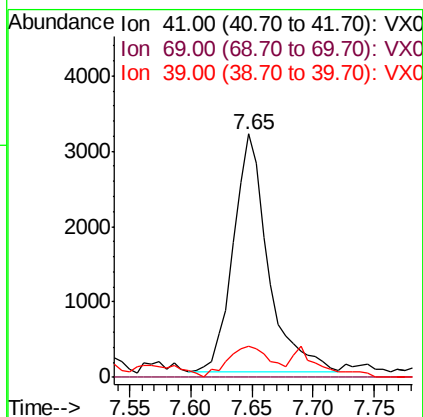
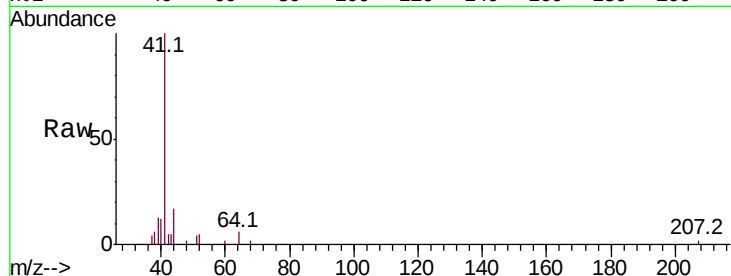




#48
Methyl methacrylate
Concen: 1.583 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.09 min
Lab File: VX019777.D
Acq: 09 Dec 2020 14:38

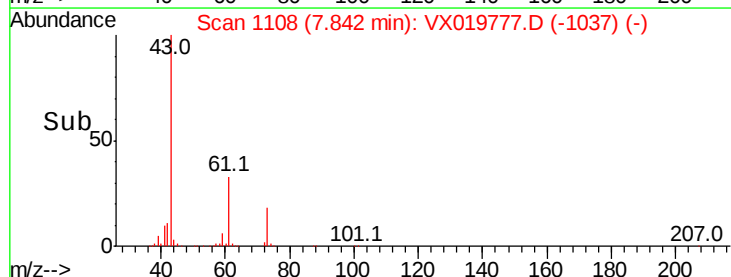
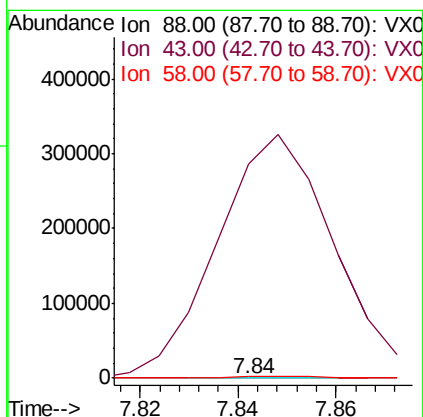
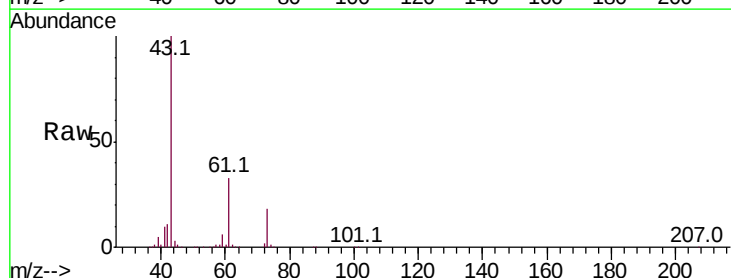
Instrument :
MSVOA_X
ClientSampled :
4S1-D-TOP

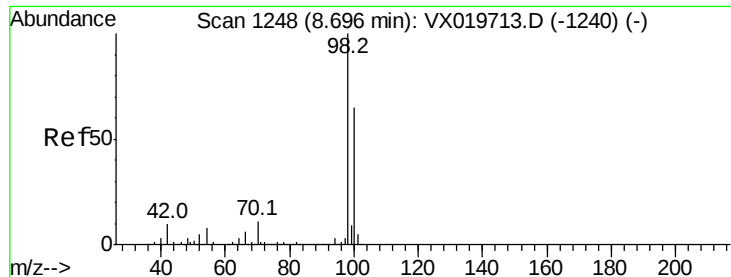
Tot Ion: 41 Resp: 6233
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 16.2 44.6 67.0#



#49
1,4-Dioxane
Concen: 0.514 ug/l
RT: 7.84 min Scan# 1108
Delta R.T. 0.13 min
Lab File: VX019777.D
Acq: 09 Dec 2020 14:38

Tgt Ion: 88 Resp: 49
Ion Ratio Lower Upper
88 100
43 1111493.9 23.2 34.8#
58 6306.1 55.0 82.4#

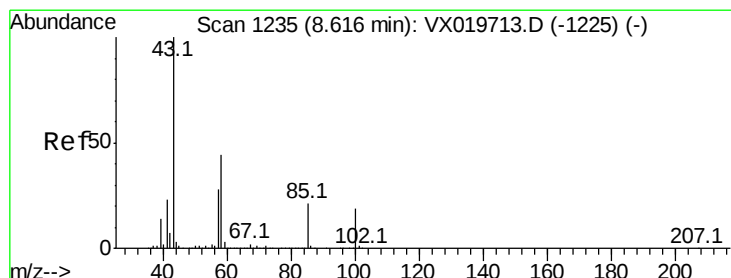
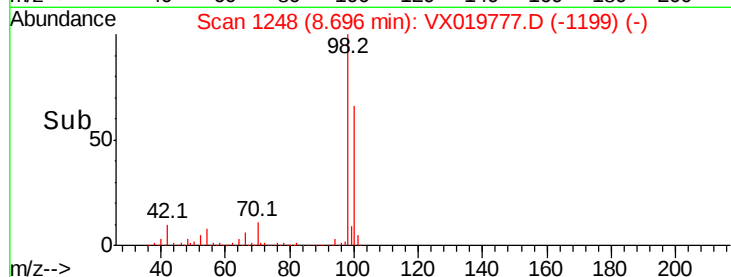
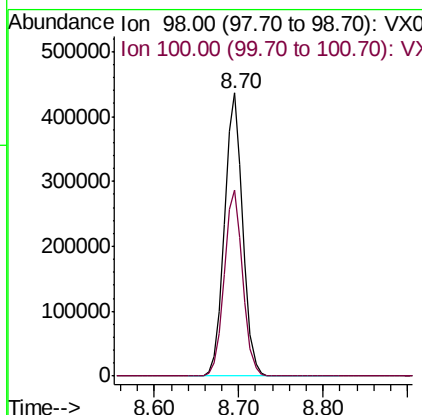
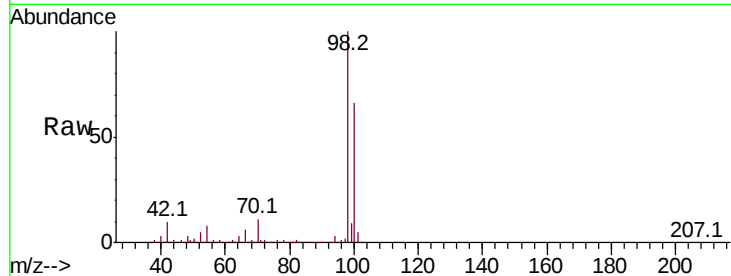




#50
Toluene-d8
Concen: 48.876 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019777.D
Acq: 09 Dec 2020 14:38

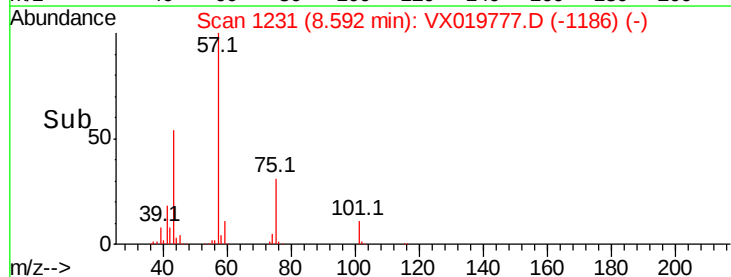
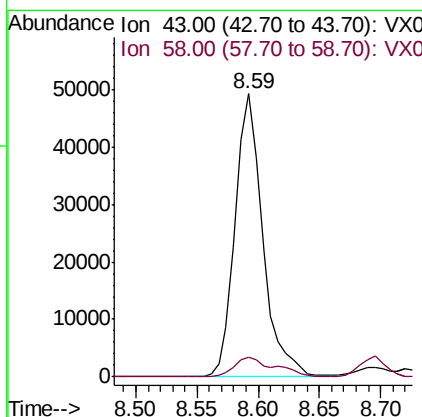
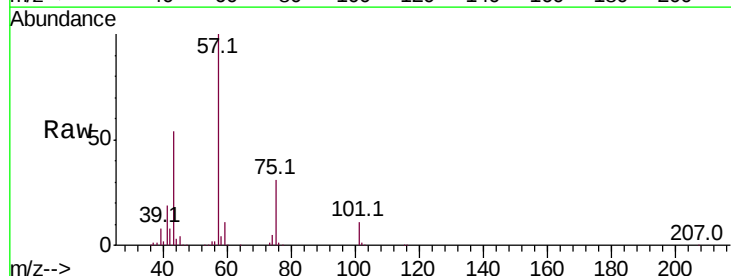
Instrument :
MSVOA_X
ClientSampleId :
4S1-D-TOP

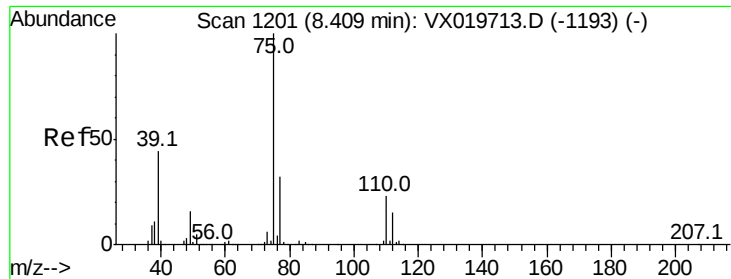
Tot Ion: 98 Resp: 651063
Ion Ratio Lower Upper
98 100
100 66.2 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 15.663 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VX019777.D
Acq: 09 Dec 2020 14:38

Tgt Ion: 43 Resp: 76578
Ion Ratio Lower Upper
43 100
58 10.2 35.4 53.0#





#54

cis-1,3-Dichloropropene

Concen: 6.714 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019777.D

Acq: 09 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampleId :

4S1-D-TOP

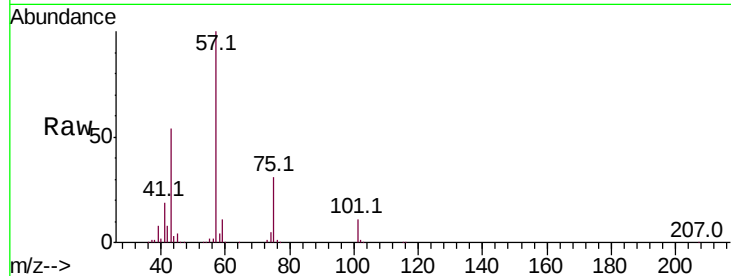
Tot Ion: 75 Resp: 40400

Ion Ratio Lower Upper

75 100

77 0.6 25.7 38.5#

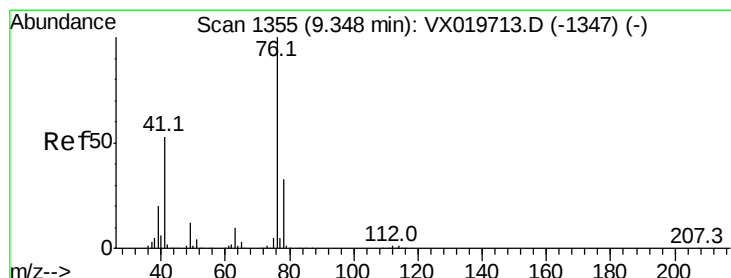
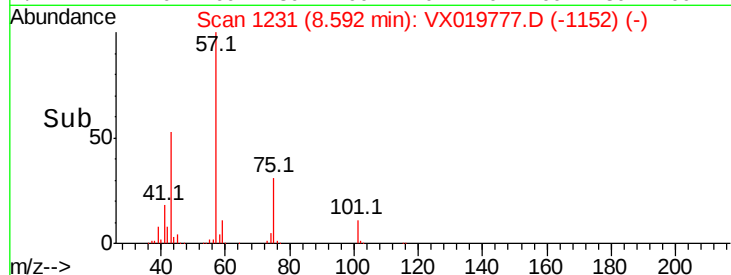
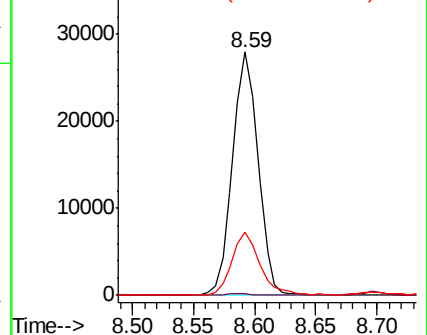
39 25.8 35.1 52.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 2.737 ug/l

RT: 9.52 min Scan# 1383

Delta R.T. 0.17 min

Lab File: VX019777.D

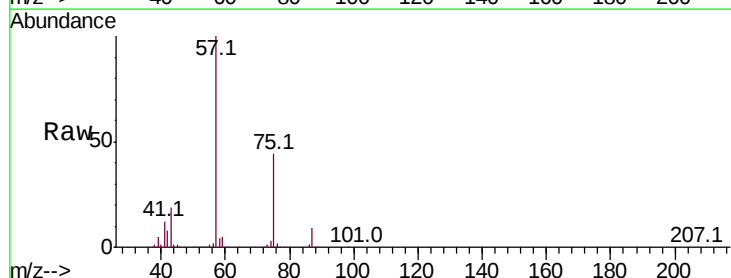
Acq: 09 Dec 2020 14:38

Tgt Ion: 76 Resp: 17554

Ion Ratio Lower Upper

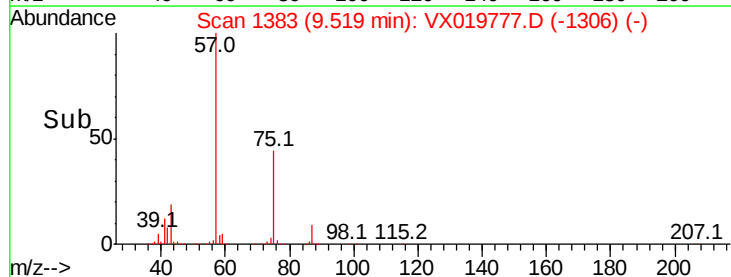
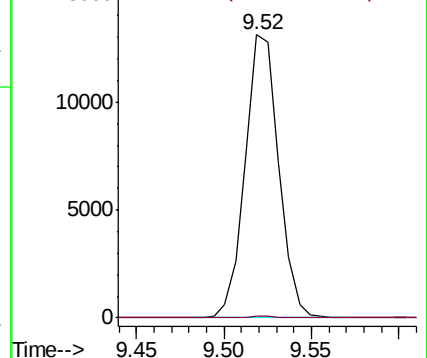
76 100

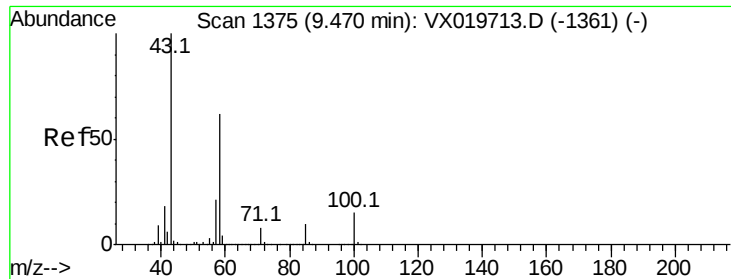
78 0.3 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

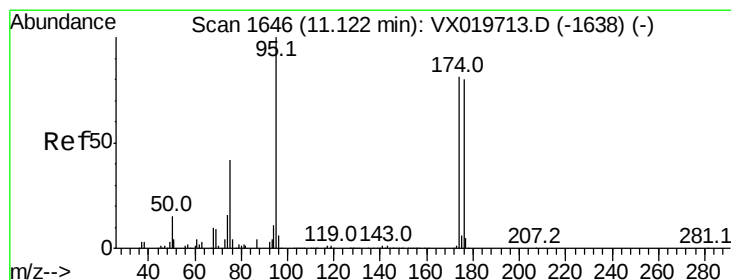
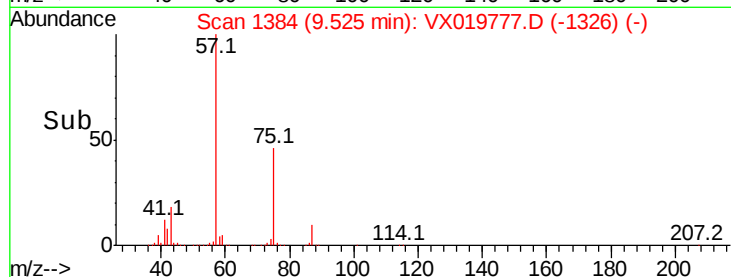
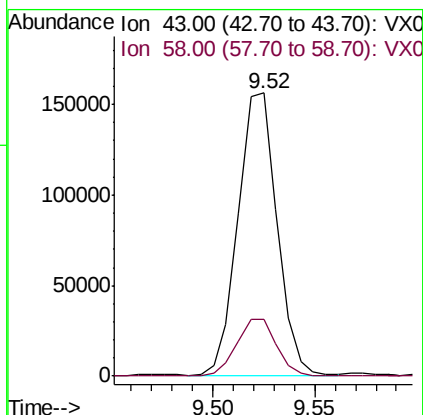
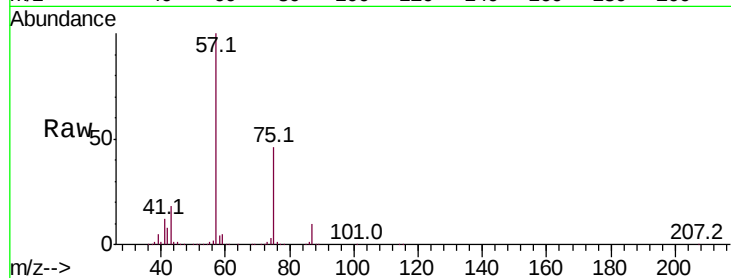




#59
2-Hexanone
Concen: 54.722 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX019777.D
Acq: 09 Dec 2020 14:38

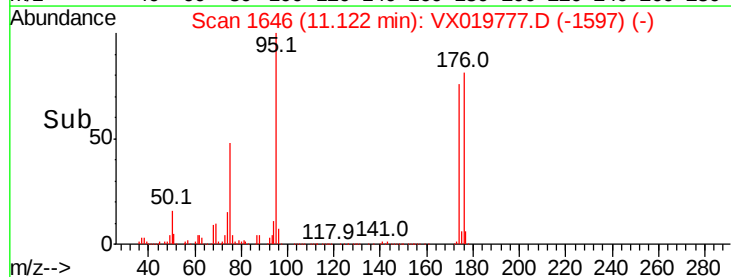
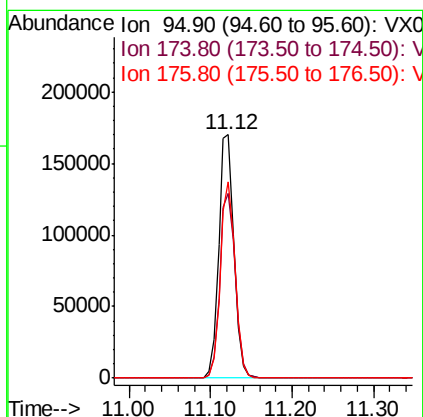
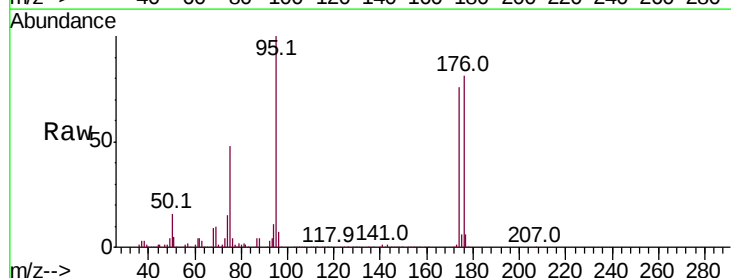
Instrument :
MSVOA_X
ClientSampleId :
4S1-D-TOP

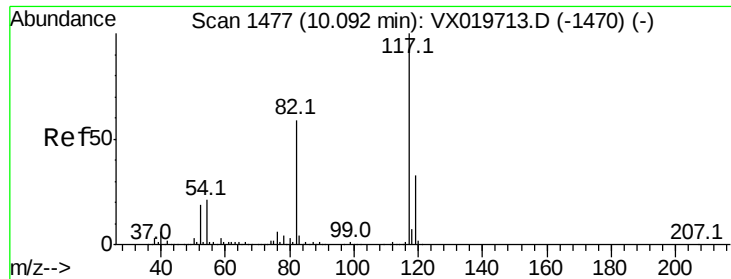
Tot Ion: 43 Resp: 207384
Ion Ratio Lower Upper
43 100
58 20.6 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 44.220 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019777.D
Acq: 09 Dec 2020 14:38

Tgt Ion: 95 Resp: 224194
Ion Ratio Lower Upper
95 100
174 76.7 0.0 154.6
176 77.7 0.0 155.8

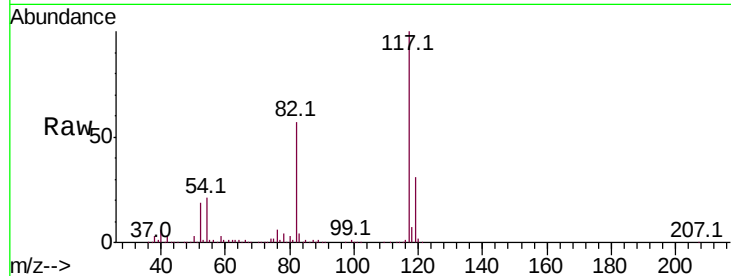




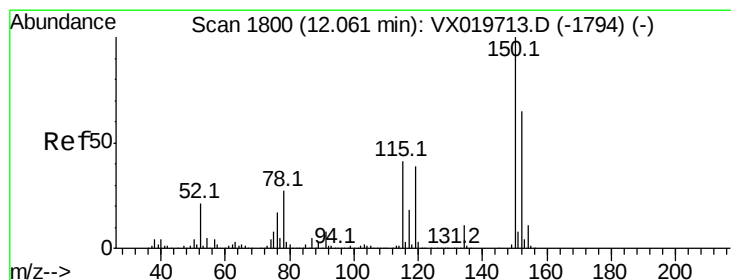
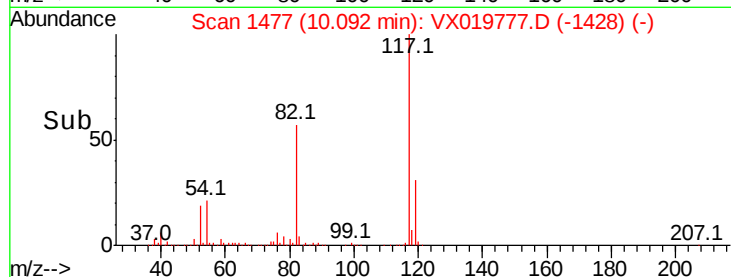
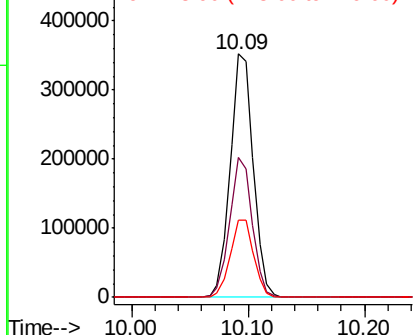
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VX019777.D
Acq: 09 Dec 2020 14:38

Instrument :
MSVOA_X
ClientSampleId :
4S1-D-TOP

Tot Ion:117 Resp: 484240
Ion Ratio Lower Upper
117 100
82 57.4 47.4 71.2
119 31.5 26.6 39.8

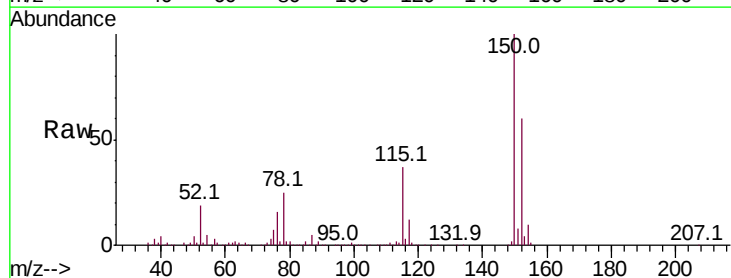


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

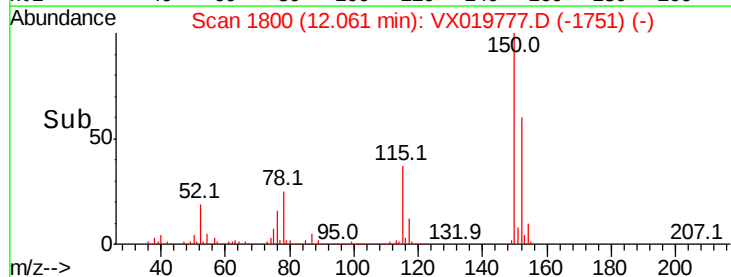
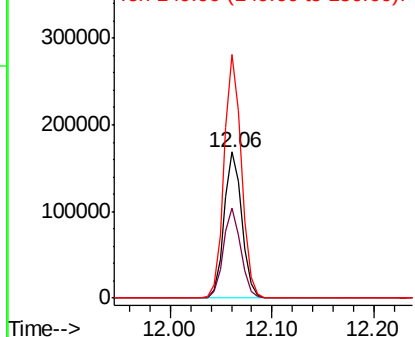


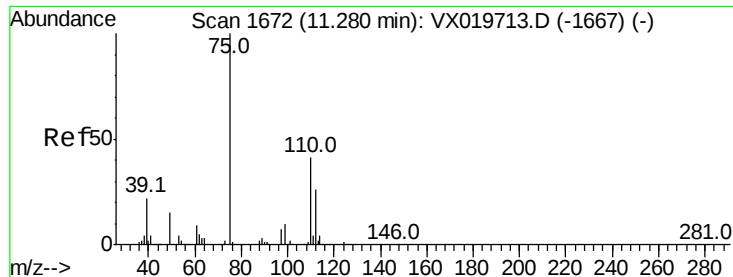
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX019777.D
Acq: 09 Dec 2020 14:38

Tgt Ion:152 Resp: 203366
Ion Ratio Lower Upper
152 100
115 60.4 41.1 123.3
150 163.1 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.699 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019777.D

Acq: 09 Dec 2020 14:38

Instrument :

MSVOA_X

ClientSampled :

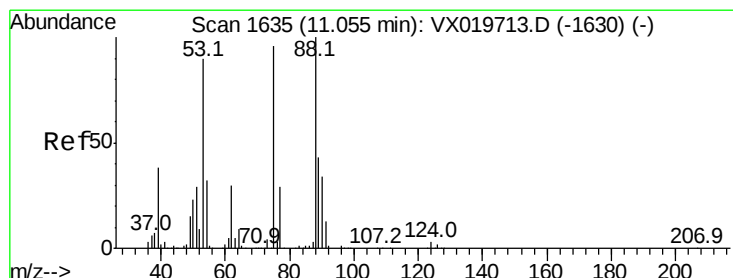
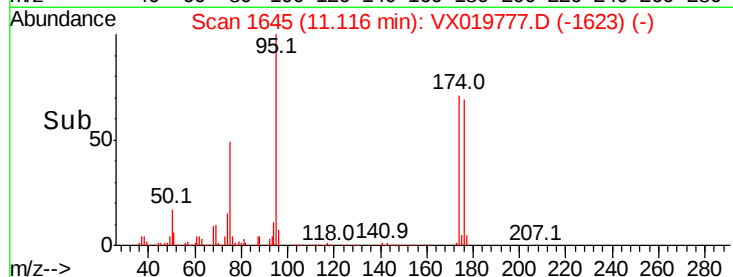
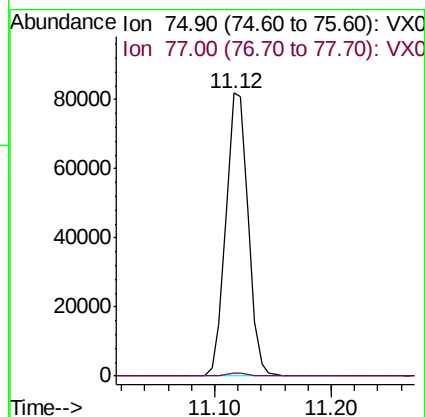
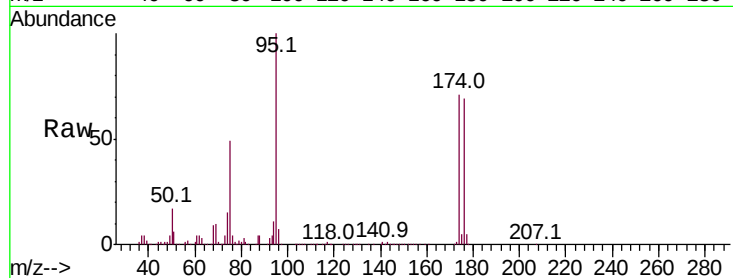
4S1-D-TOP

Tot Ion: 75 Resp: 108093

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.508 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019777.D

Acq: 09 Dec 2020 14:38

Tgt Ion: 75 Resp: 108093

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

