

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121620\
 Data File : VX020062.D
 Acq On : 16 Dec 2020 13:40
 Operator : JC/MD
 Sample : L5076-02 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 17 00:32:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X120820W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Dec 09 06:09:21 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

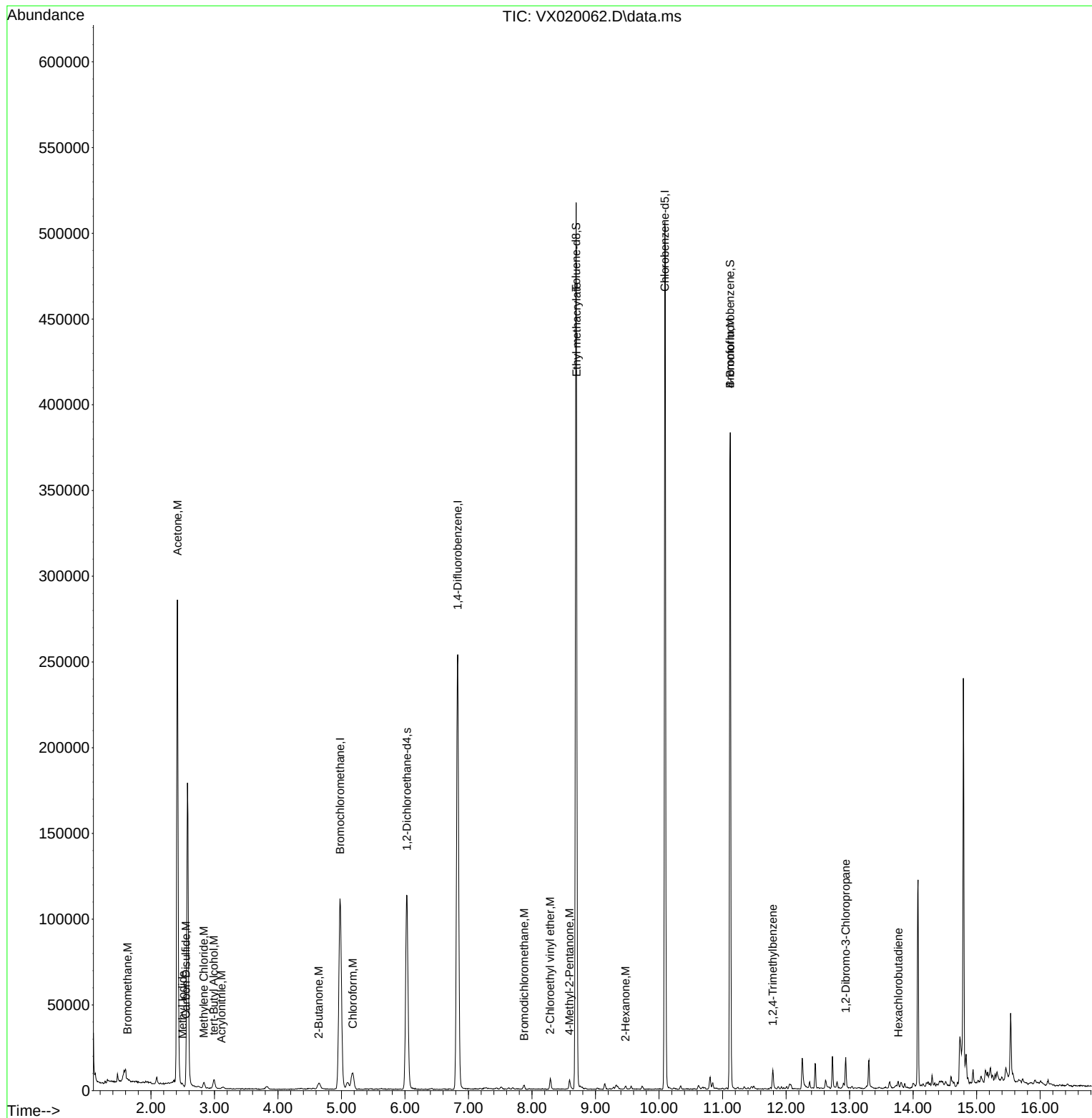
Internal Standards						
1) Bromochloromethane	4.977	128	49583	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.830	114	256126	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.092	117	236782	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.031	65	109014	31.72	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.73%
60) 4-Bromofluorobenzene	11.122	95	107465	27.03	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.10%
63) Toluene-d8	8.695	98	312197	30.10	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.33%
Target Compounds						
					Qvalue	
5) Bromomethane	1.630	94	513	0.41	ug/l	88
11) Methyl Iodide	2.495	142	1885	0.54	ug/l	84
14) Acrylonitrile	3.111	53	508	0.30	ug/l	74
15) Acetone	2.416	58	97741	193.92	ug/l	98
16) Carbon Disulfide	2.550	76	1794	0.24	ug/l #	93
18) Methylene Chloride	2.831	84	1425	0.43	ug/l	96
23) tert-Butyl Alcohol	2.989	59	3255	4.08	ug/l #	96
25) Chloroform	5.178	83	11924	2.11	ug/l	100
30) 2-Butanone	4.641	43	2749	1.31	ug/l #	93
41) Bromodichloromethane	7.879	83	1552	0.37	ug/l	97
51) Ethyl methacrylate	8.702	69	1066	0.22	ug/l	76
55) 2-Chloroethyl vinyl ether	8.287	63	2472	1.00	ug/l	96
56) Bromoform	11.122	173	719	0.29	ug/l #	1
58) 4-Methyl-2-Pentanone	8.592	43	2325	0.57	ug/l #	45
59) 2-Hexanone	9.470	43	1232	0.39	ug/l #	86
80) 1,2,4-Trimethylbenzene	11.792	105	3270	0.27	ug/l	39
88) 1,2-Dibromo-3-Chloropr...	12.939	75	245	0.23	ug/l #	1
90) Hexachlorobutadiene	13.768	225	560	0.30	ug/l	86

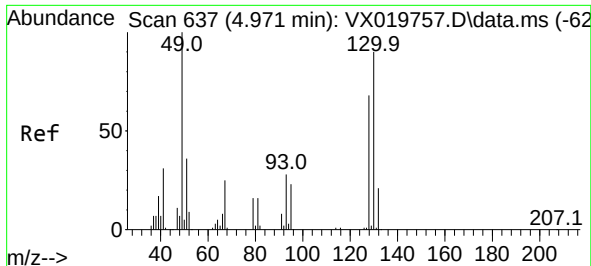
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

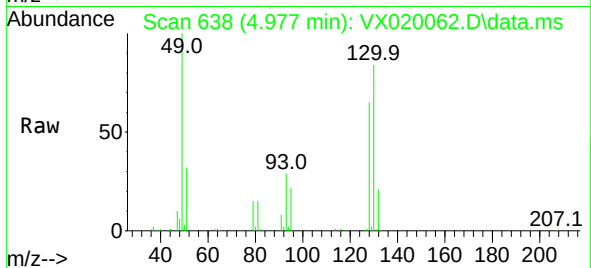
Quant Time: Dec 17 00:32:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X120820W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Dec 09 06:09:21 2020
Response via : Initial Calibration



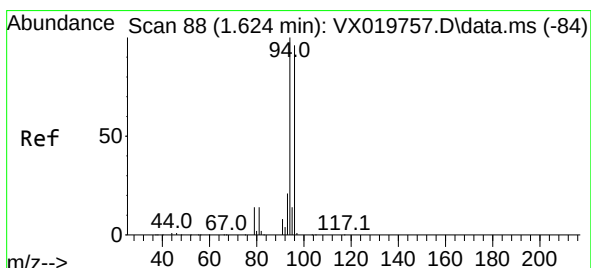
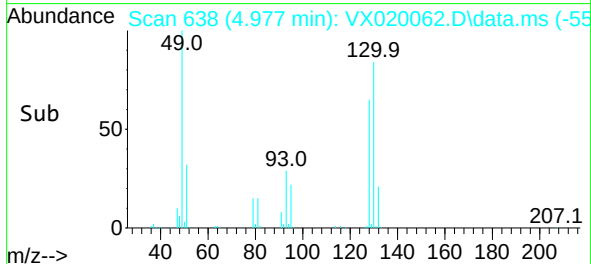
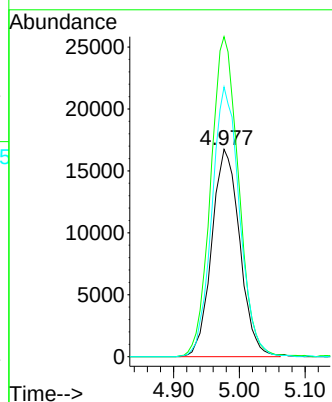


#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 4.977 min Scan# 638
Delta R.T. 0.006 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

Instrument :
MSVOA_X
ClientSampled :

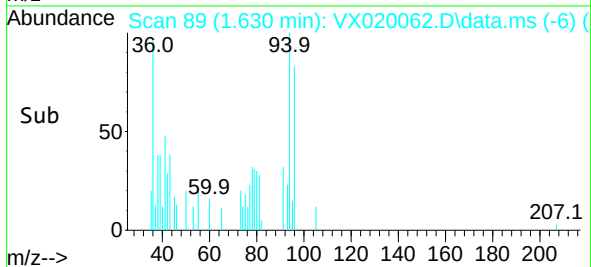
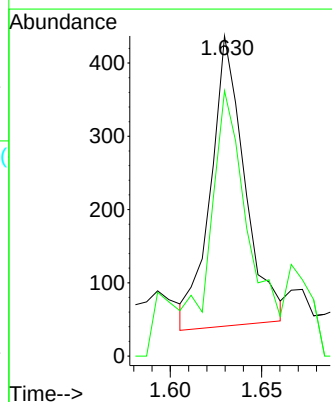
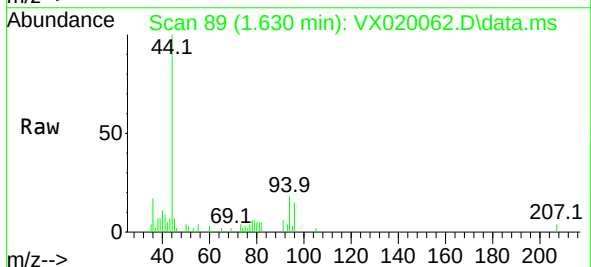


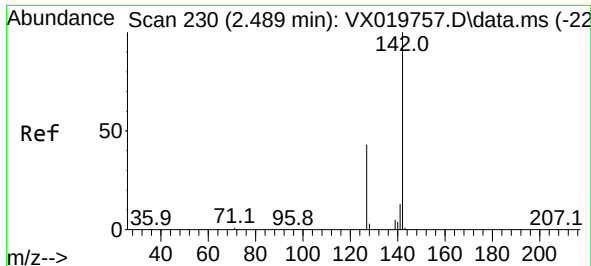
Tgt Ion:128 Resp: 49583
Ion Ratio Lower Upper
128 100
49 153.8 0.0 367.5
130 128.7 0.0 318.8



#5
Bromomethane
Concen: 0.41 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.006 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

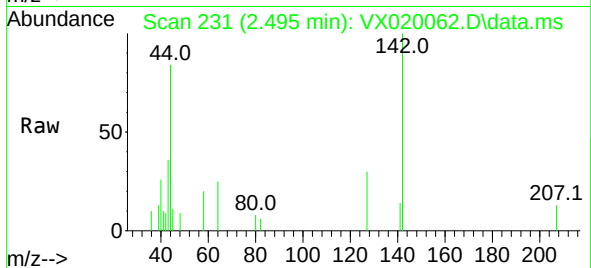
Tgt Ion: 94 Resp: 513
Ion Ratio Lower Upper
94 100
96 84.2 76.6 114.8



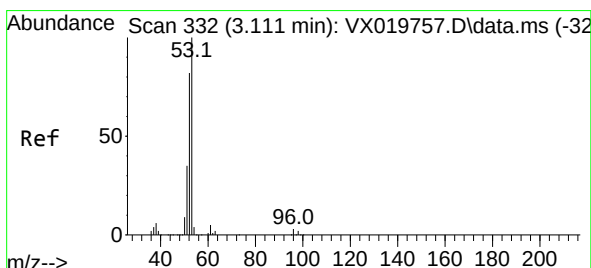
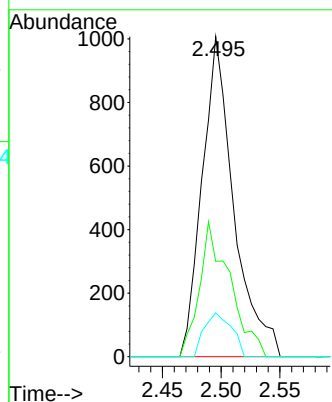
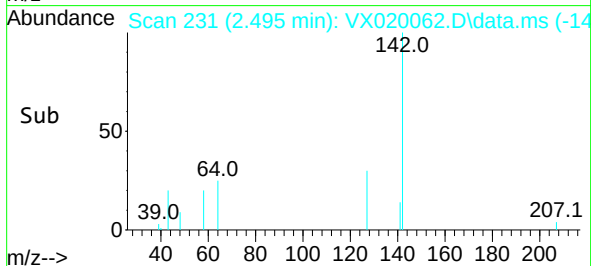


#11
Methyl Iodide
Concen: 0.54 ug/l
RT: 2.495 min Scan# 231
Delta R.T. 0.006 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

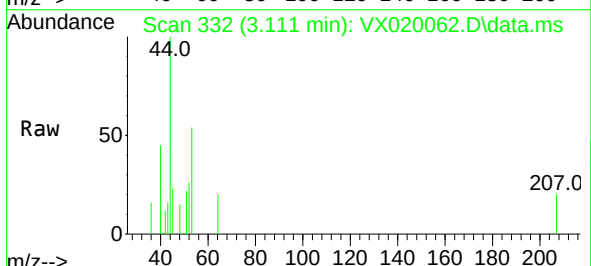
Instrument :
MSVOA_X
ClientSampled :



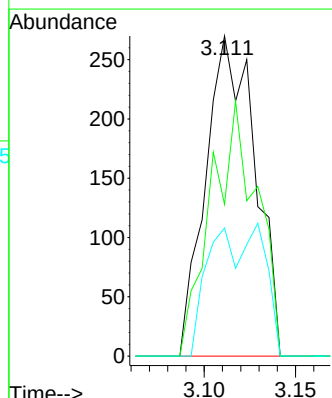
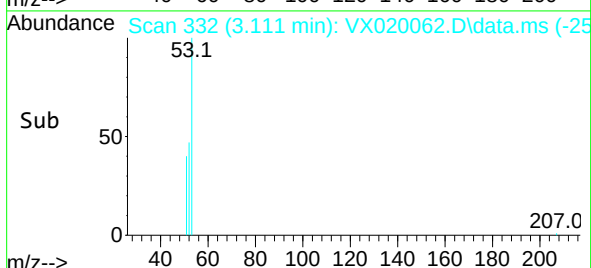
Tgt Ion:142 Resp: 1885
Ion Ratio Lower Upper
142 100
127 29.8 21.4 64.2
141 13.7 6.5 19.4

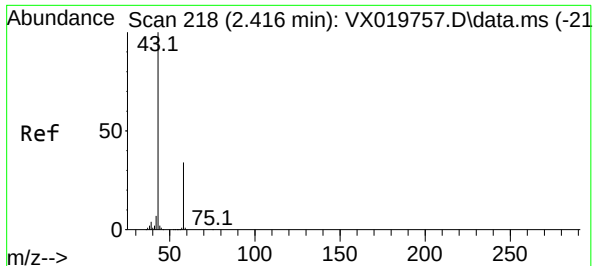


#14
Acrylonitrile
Concen: 0.30 ug/l
RT: 3.111 min Scan# 332
Delta R.T. -0.000 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40



Tgt Ion: 53 Resp: 508
Ion Ratio Lower Upper
53 100
52 55.7 41.1 123.3
51 24.8 17.6 52.9

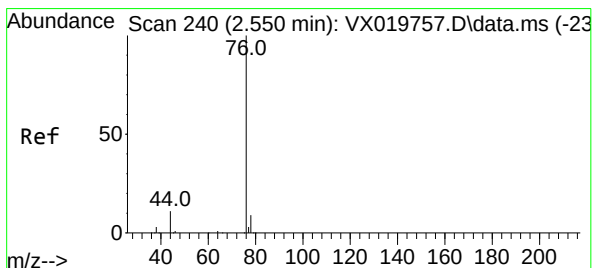
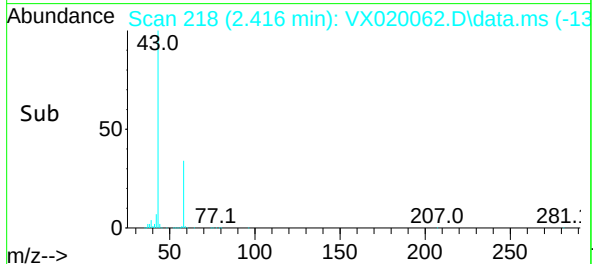
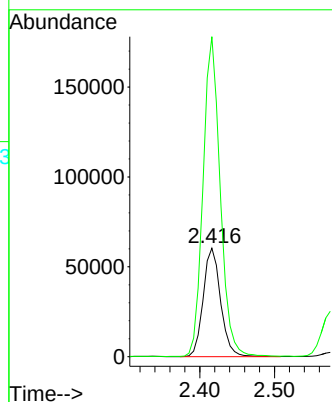
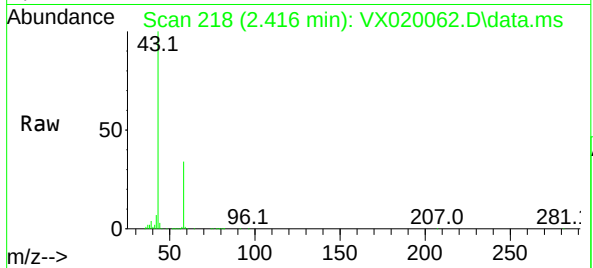




#15
Acetone
Concen: 193.92 ug/l
RT: 2.416 min Scan# 218
Delta R.T. -0.000 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

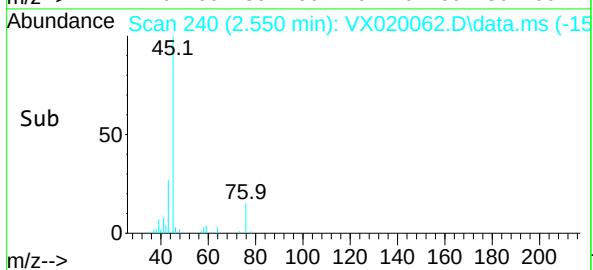
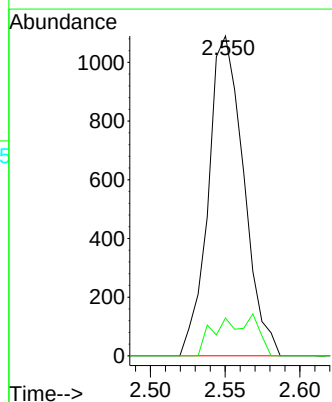
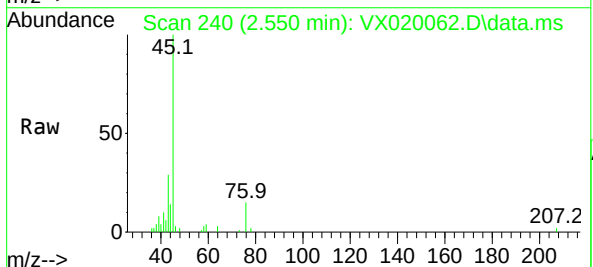
Instrument :
MSVOA_X
ClientSampled :

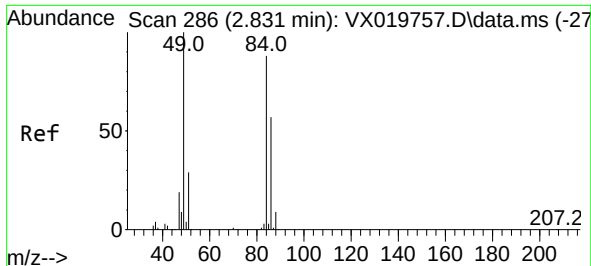
Tgt Ion: 58 Resp: 97741
Ion Ratio Lower Upper
58 100
43 294.6 232.6 348.8



#16
Carbon Disulfide
Concen: 0.24 ug/l
RT: 2.550 min Scan# 240
Delta R.T. -0.000 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

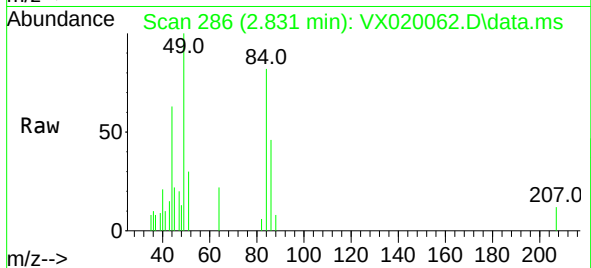
Tgt Ion: 76 Resp: 1794
Ion Ratio Lower Upper
76 100
78 11.8 7.4 11.0#



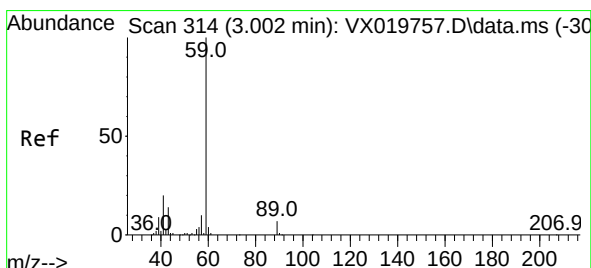
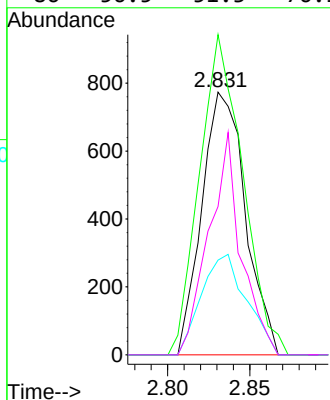
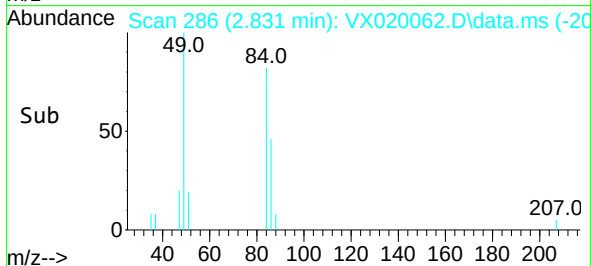


#18
Methylene Chloride
Concen: 0.43 ug/l
RT: 2.831 min Scan# 286
Delta R.T. -0.000 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

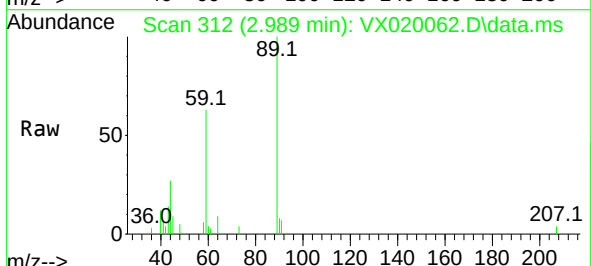
Instrument :
MSVOA_X
ClientSampled :



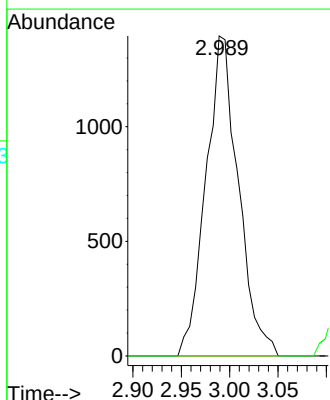
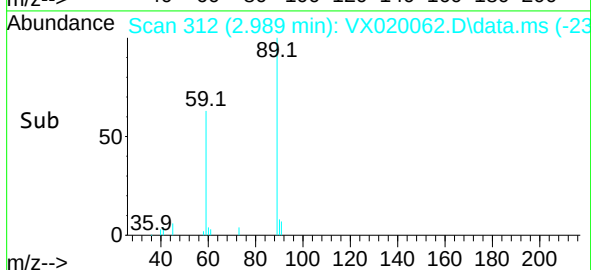
Tgt Ion:	84	Resp:	1425
Ion	Ratio	Lower	Upper
84	100		
49	114.3	90.6	136.0
51	36.0	26.3	39.5
86	56.5	51.3	76.9

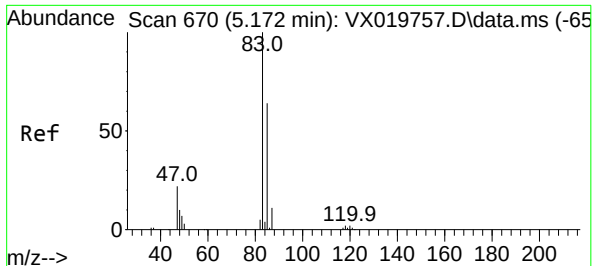


#23
tert-Butyl Alcohol
Concen: 4.08 ug/l
RT: 2.989 min Scan# 312
Delta R.T. -0.012 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40



Tgt Ion:	59	Resp:	3255
Ion	Ratio	Lower	Upper
59	100		
52	8.7	0.1	0.1#

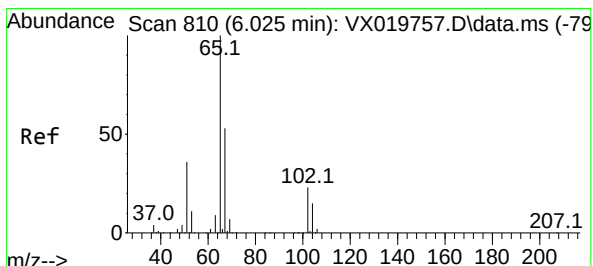
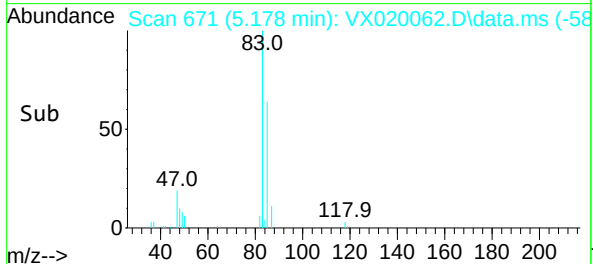
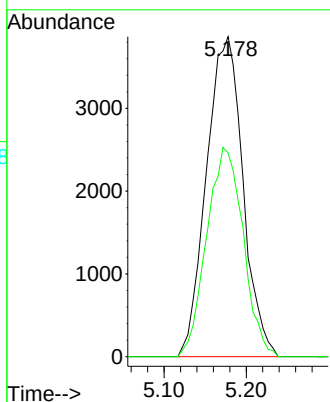
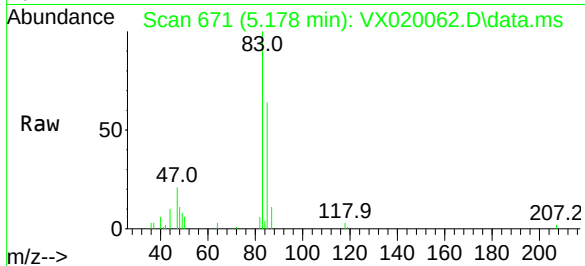




#25
Chloroform
Concen: 2.11 ug/l
RT: 5.178 min Scan# 671
Delta R.T. 0.006 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

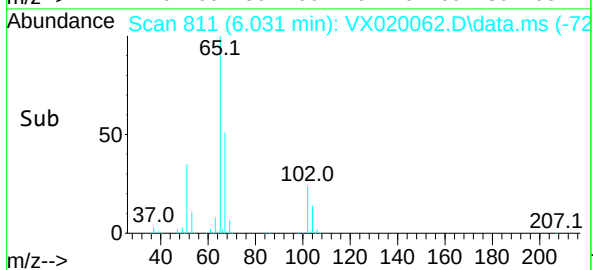
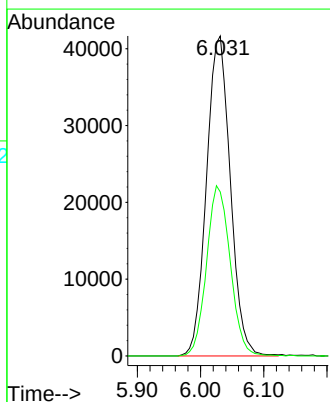
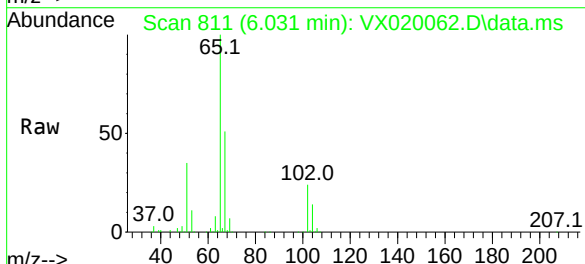
Instrument :
MSVOA_X
ClientSampled :

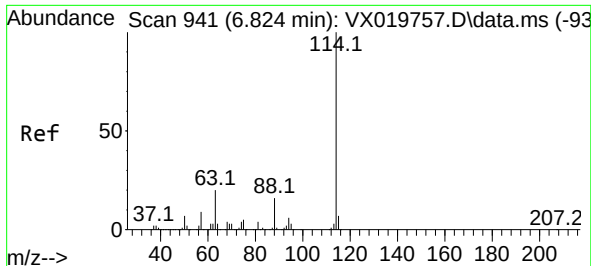
Tgt Ion: 83 Resp: 11924
Ion Ratio Lower Upper
83 100
85 63.7 51.2 76.8



#27
1,2-Dichloroethane-d4
Concen: 31.72 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

Tgt Ion: 65 Resp: 109014
Ion Ratio Lower Upper
65 100
67 53.0 41.9 62.9





#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.830 min Scan# 942

Delta R.T. 0.006 min

Lab File: VX020062.D

Acq: 16 Dec 2020 13:40

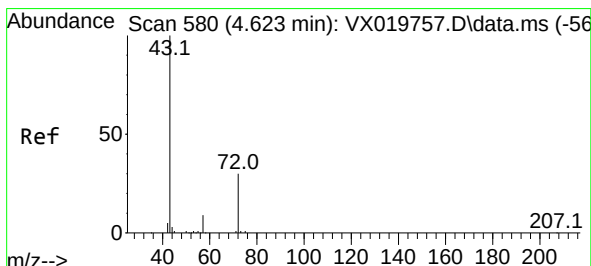
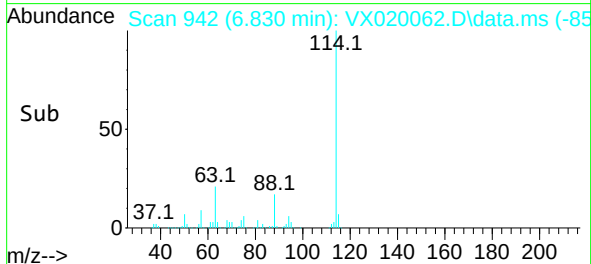
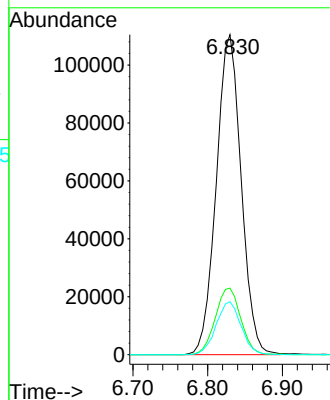
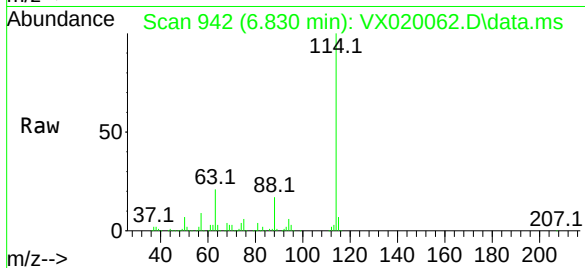
Tgt Ion:114 Resp: 256126

Ion Ratio Lower Upper

114 100

63 21.2 16.2 24.2

88 16.6 13.0 19.6



#30

2-Butanone

Concen: 1.31 ug/l

RT: 4.641 min Scan# 583

Delta R.T. 0.018 min

Lab File: VX020062.D

Acq: 16 Dec 2020 13:40

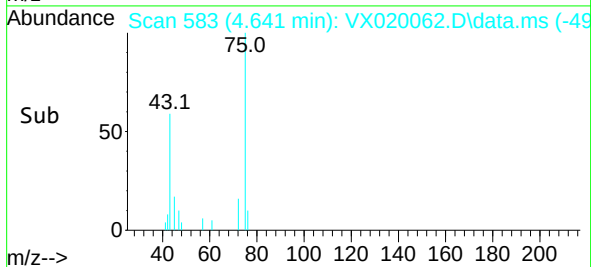
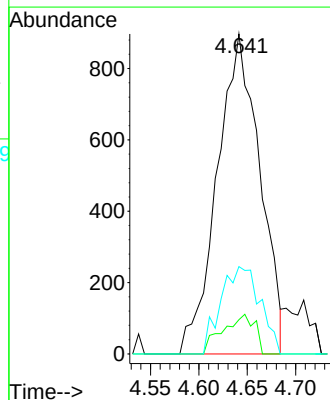
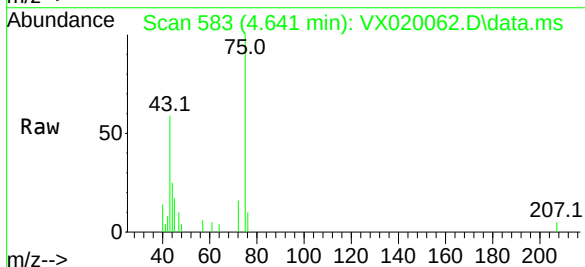
Tgt Ion: 43 Resp: 2749

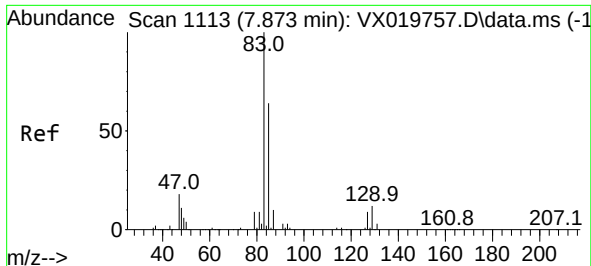
Ion Ratio Lower Upper

43 100

57 7.1 7.2 10.8#

72 25.2 23.7 35.5

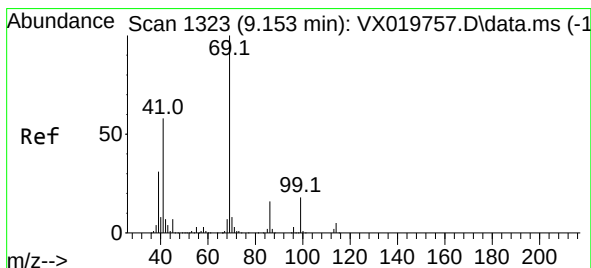
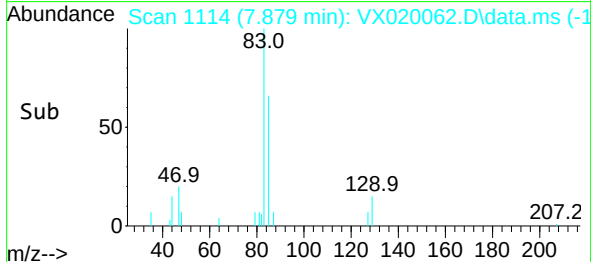
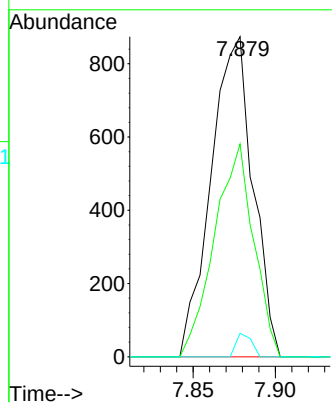
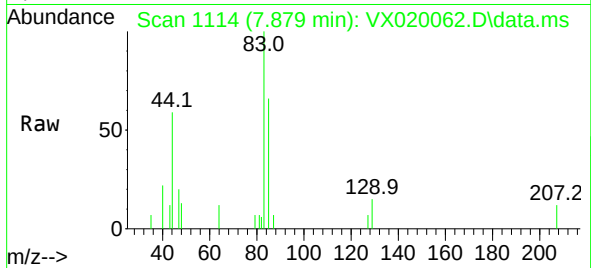




#41
Bromodichloromethane
Concen: 0.37 ug/l
RT: 7.879 min Scan# 1114
Delta R.T. 0.006 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

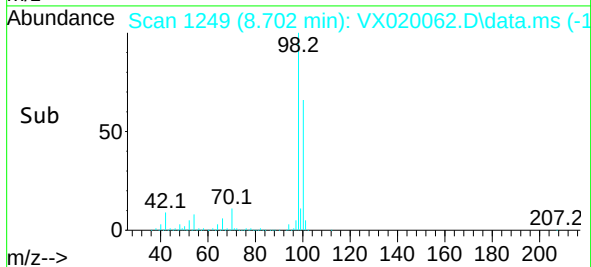
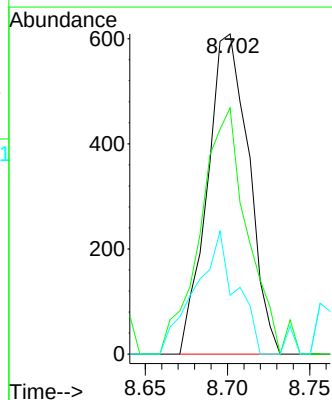
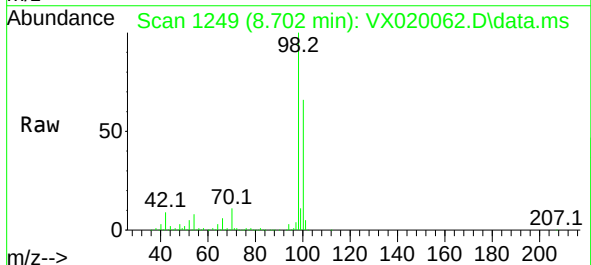
Instrument :
MSVOA_X
ClientSampled :

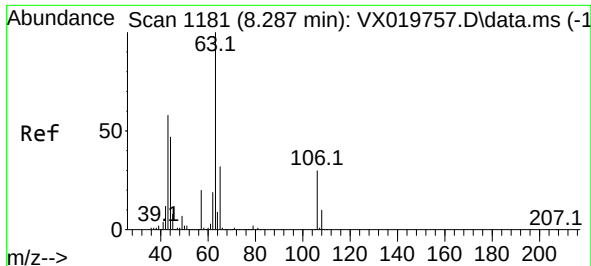
Tgt Ion: 83 Resp: 1552
Ion Ratio Lower Upper
83 100
85 66.5 51.4 77.0
127 7.3 7.1 10.7



#51
Ethyl methacrylate
Concen: 0.22 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.451 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

Tgt Ion: 69 Resp: 1066
Ion Ratio Lower Upper
69 100
41 76.8 29.1 87.4
39 18.4 15.4 46.1

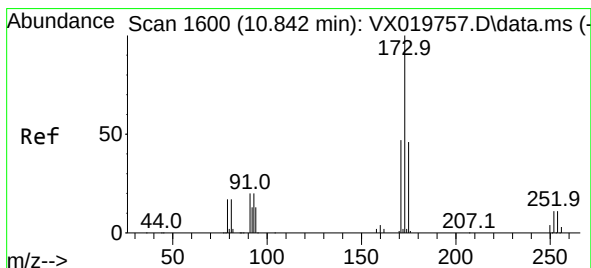
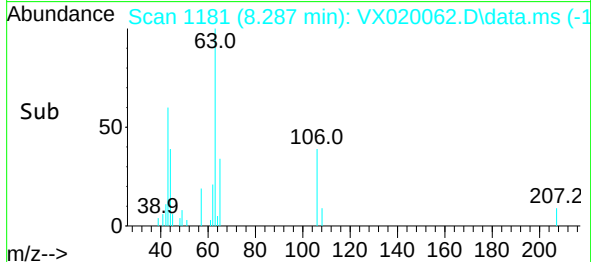
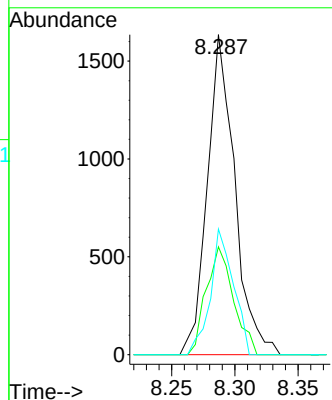
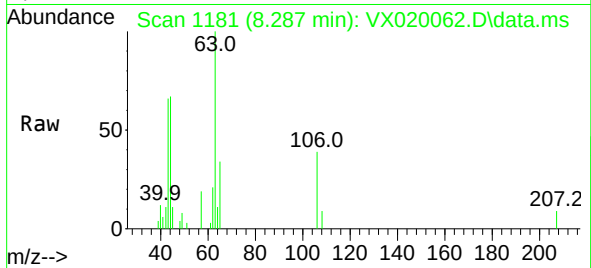




#55
2-Chloroethyl vinyl ether
Concen: 1.00 ug/l
RT: 8.287 min Scan# 1181
Delta R.T. -0.000 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

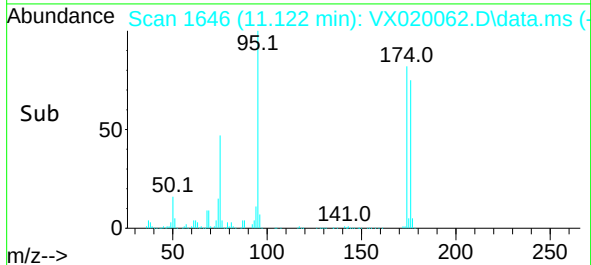
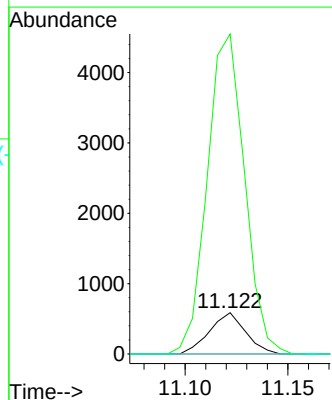
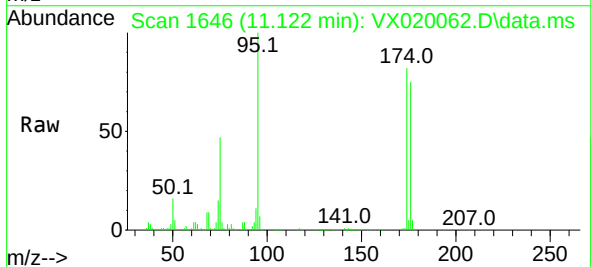
Instrument :
MSVOA_X
ClientSampled :

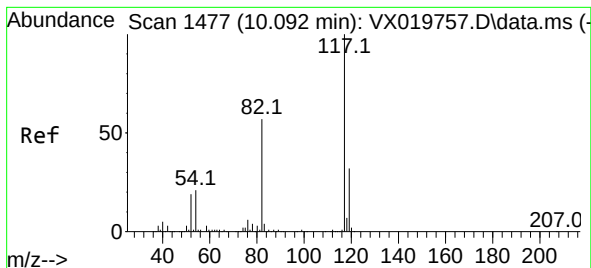
Tgt Ion: 63	Resp: 2472
Ion Ratio	Lower Upper
63	100
65	33.5 25.9 38.9
106	32.8 23.9 35.9



#56
Bromoform
Concen: 0.29 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.280 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

Tgt Ion: 173	Resp: 719
Ion Ratio	Lower Upper
173	100
175	798.9 38.1 57.1#
254	0.0 8.2 12.4#

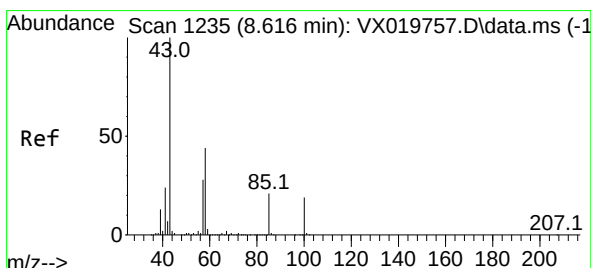
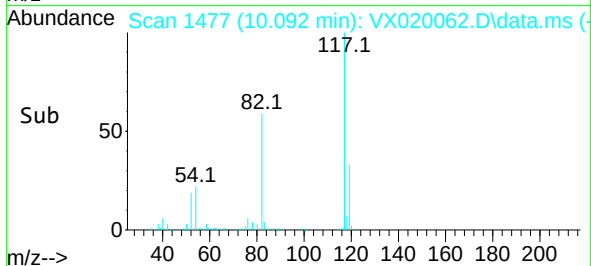
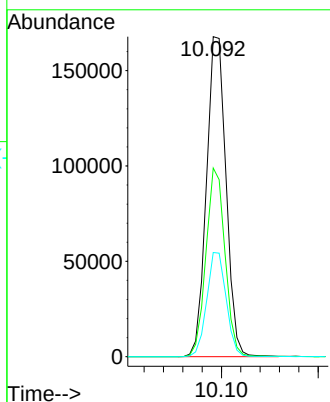
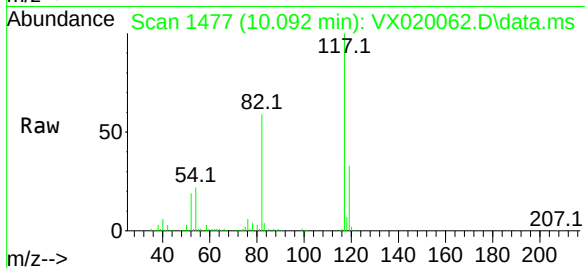




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. -0.000 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

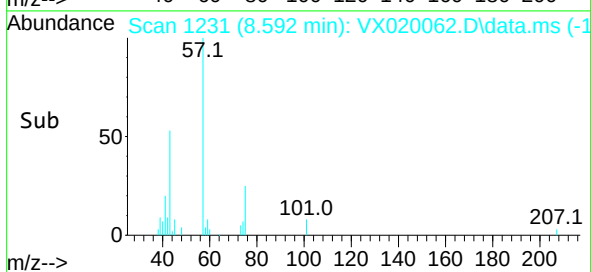
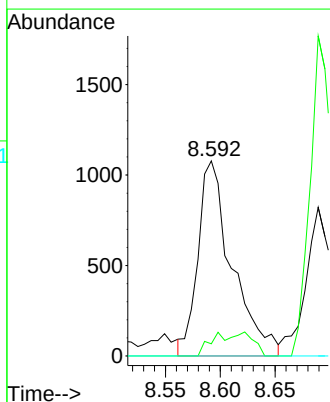
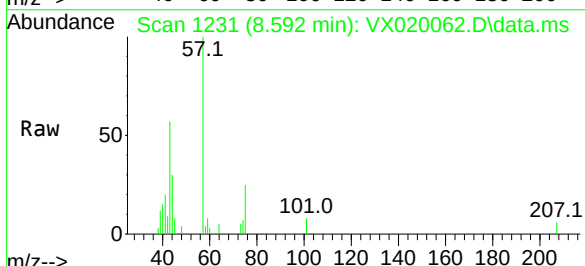
Instrument :
MSVOA_X
ClientSampled :

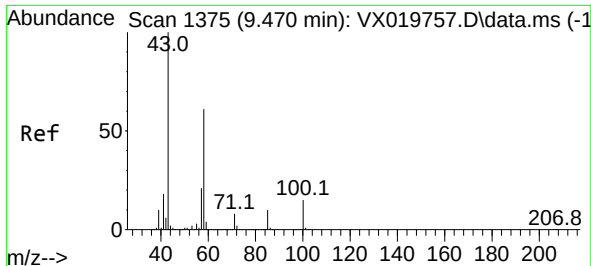
Tgt Ion:	117	Resp:	236782
Ion	Ratio	Lower	Upper
117	100		
82	57.3	45.0	67.6
119	32.3	25.6	38.4



#58
4-Methyl-2-Pentanone
Concen: 0.57 ug/l
RT: 8.592 min Scan# 1231
Delta R.T. -0.025 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

Tgt Ion:	43	Resp:	2325
Ion	Ratio	Lower	Upper
43	100		
58	5.8	35.2	52.8#
85	0.0	16.8	25.2#

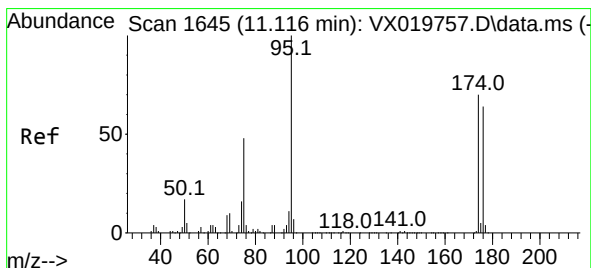
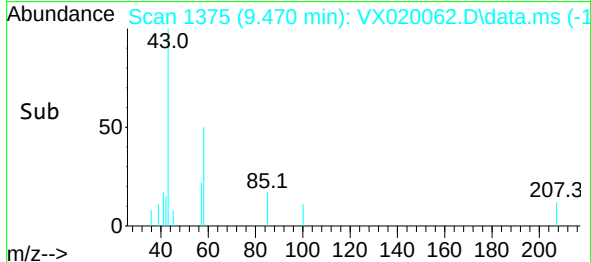
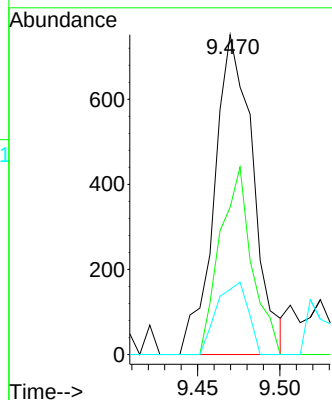
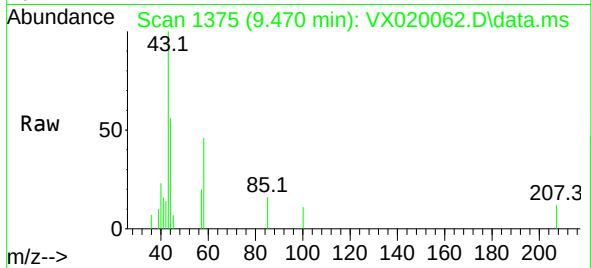




#59
2-Hexanone
Concen: 0.39 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

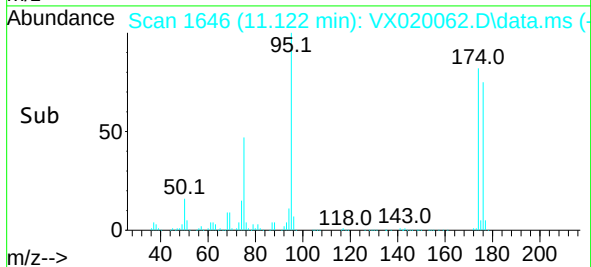
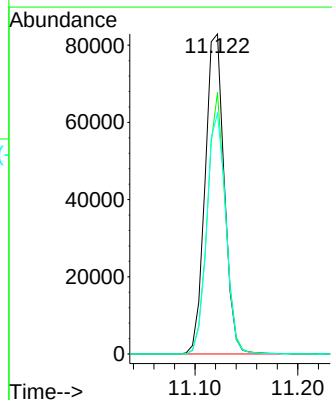
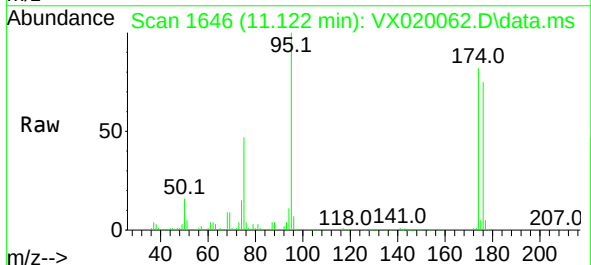
Instrument :
MSVOA_X
ClientSampled :

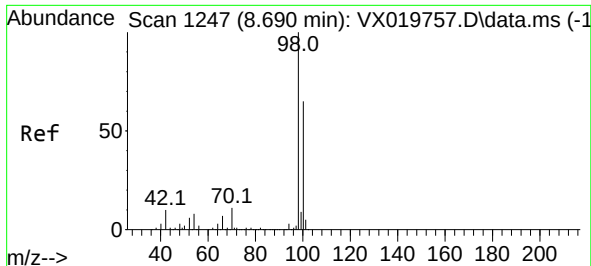
Tgt Ion: 43	Resp: 1232
Ion Ratio	Lower Upper
43	100
58	48.3 49.0 73.6#
57	18.3 17.1 25.7



#60
4-Bromofluorobenzene
Concen: 27.03 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.006 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

Tgt Ion: 95	Resp: 107465
Ion Ratio	Lower Upper
95	100
174	76.6 63.0 94.4
176	74.2 59.9 89.9

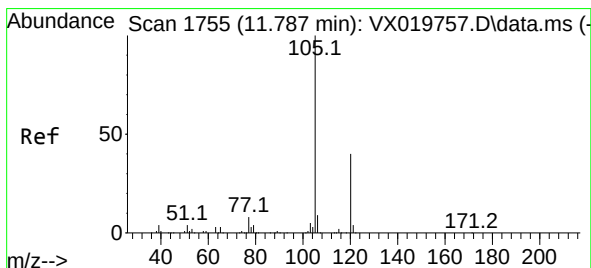
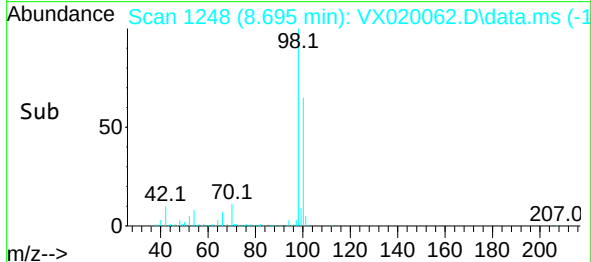
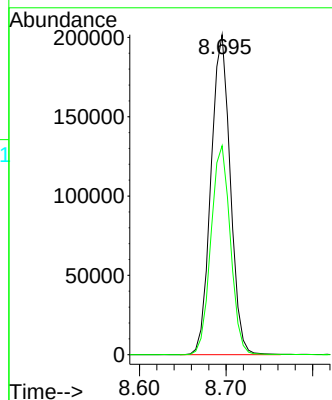
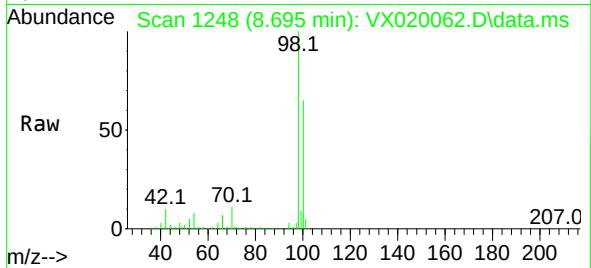




#63
Toluene-d8
Concen: 30.10 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

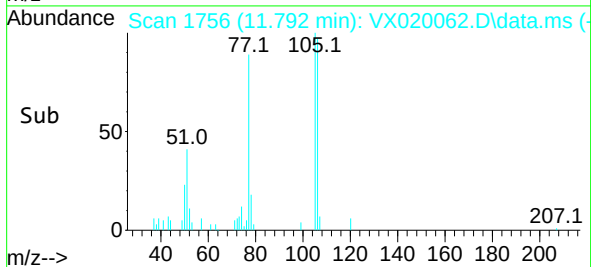
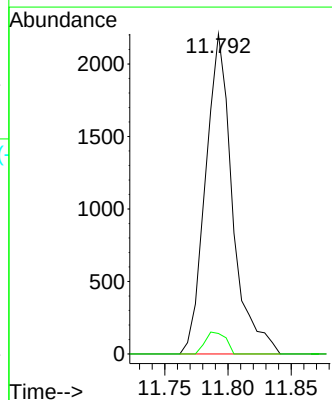
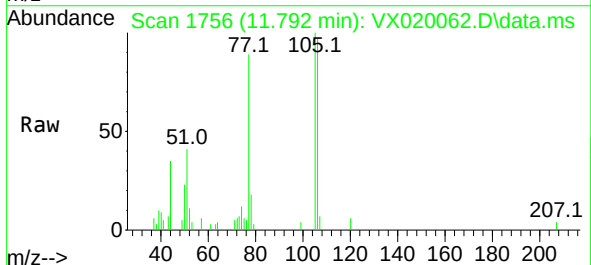
Instrument :
MSVOA_X
ClientSampled :

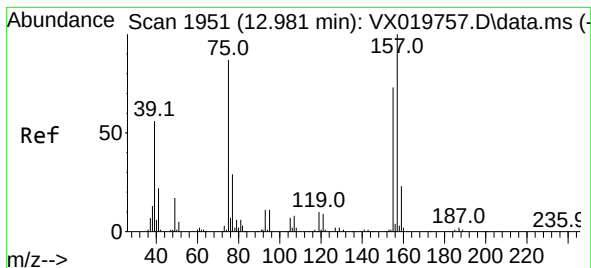
Tgt Ion: 98 Resp: 312197
Ion Ratio Lower Upper
98 100
100 65.7 53.0 79.4



#80
1,2,4-Trimethylbenzene
Concen: 0.27 ug/l
RT: 11.792 min Scan# 1756
Delta R.T. 0.006 min
Lab File: VX020062.D
Acq: 16 Dec 2020 13:40

Tgt Ion: 105 Resp: 3270
Ion Ratio Lower Upper
105 100
120 5.2 0.0 89.8

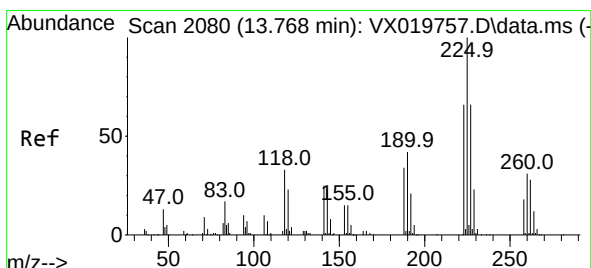
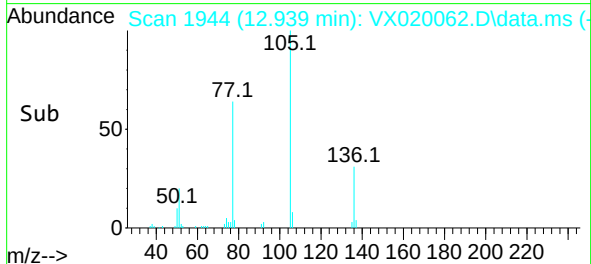
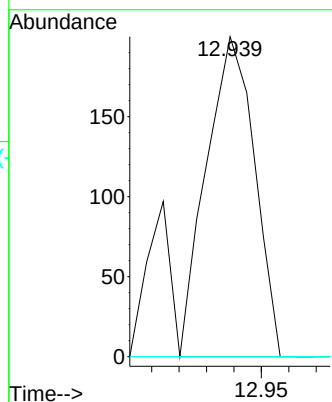
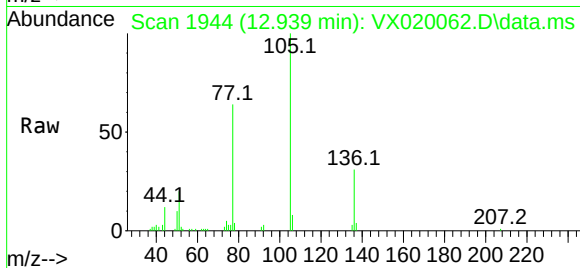




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.23 ug/l
 RT: 12.939 min Scan# 1944
 Delta R.T. -0.043 min
 Lab File: VX020062.D
 Acq: 16 Dec 2020 13:40

Instrument :
 MSVOA_X
 ClientSampled :

Tgt Ion: 75 Resp: 245
 Ion Ratio Lower Upper
 75 100
 155 0.0 68.9 103.3#
 157 0.0 91.3 136.9#



#90
 Hexachlorobutadiene
 Concen: 0.30 ug/l
 RT: 13.768 min Scan# 2080
 Delta R.T. -0.000 min
 Lab File: VX020062.D
 Acq: 16 Dec 2020 13:40

Tgt Ion: 225 Resp: 560
 Ion Ratio Lower Upper
 225 100
 223 54.8 0.0 129.4
 227 52.5 0.0 130.4

