

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD042621\
 Data File : VD068985.D
 Acq On : 26 Apr 2021 13:39
 Operator : VA/SY
 Sample : M2183-01
 Misc : 7.05G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 27 07:12:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D040721S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 08 03:50:31 2021
 Response via : Initial Calibration

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

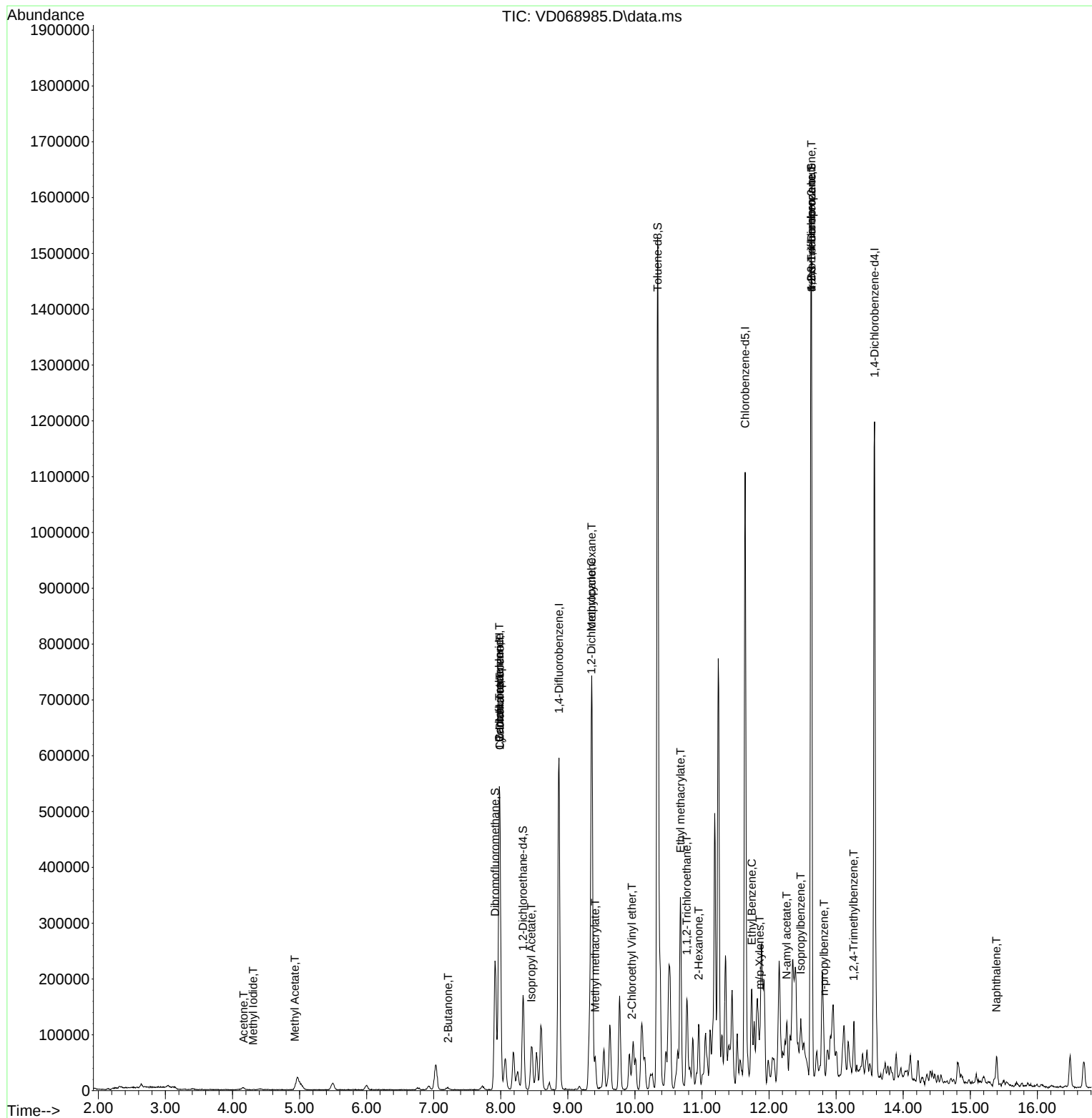
Internal Standards						
1) Pentafluorobenzene	7.979	168	334939	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	554256	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.643	117	662432	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	333300	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	132035	37.30	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	74.60%		
35) Dibromofluoromethane	7.914	113	166968	46.31	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	92.62%		
50) Toluene-d8	10.338	98	757070	55.67	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	111.34%		
62) 4-Bromofluorobenzene	12.632	95	313567	69.42	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	138.84%		
Target Compounds					Qvalue	
10) Methyl Iodide	4.309	142	331	2.32	ug/l #	41
11) Tert butyl alcohol	5.209	59	56	Below Cal	#	73
16) Acetone	4.167	43	6499	13.26	ug/l	93
18) Methyl Acetate	4.932	43	2701	2.01	ug/l #	43
20) Methylene Chloride	4.967	84	15679	Below Cal		94
25) 2-Butanone	7.214	43	1169	1.69	ug/l #	39
31) Cyclohexane	7.985	56	67233	11.41	ug/l #	84
36) 1,1-Dichloropropene	7.985	75	23679	4.22	ug/l #	56
38) Carbon Tetrachloride	7.979	117	32234	5.80	ug/l #	16
39) Methylcyclohexane	9.355	83	343164	52.45	ug/l	96
43) Isopropyl Acetate	8.455	43	11687	3.48	ug/l #	45
45) 1,2-Dichloropropane	9.349	63	3985	1.02	ug/l #	1
48) Methyl methacrylate	9.408	41	7588	4.58	ug/l #	7
55) 1,1,2-Trichloroethane	10.773	97	65894	21.33	ug/l #	20
56) Ethyl methacrylate	10.679	69	34418	10.83	ug/l #	10
58) 2-Chloroethyl Vinyl ether	9.955	63	127	17.06	ug/l #	44
59) 2-Hexanone	10.949	43	36428	32.15	ug/l #	24
67) Ethyl Benzene	11.743	91	86502	3.48	ug/l	100
68) m/p-Xylenes	11.861	106	14782	1.54	ug/l	96
73) Isopropylbenzene	12.473	105	39618	1.63	ug/l	98
74) N-amyl acetate	12.261	43	19677	4.77	ug/l #	48
76) 1,2,3-Trichloropropane	12.632	75	163007	53.53	ug/l #	100
78) n-propylbenzene	12.820	91	44085	1.49	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.632	75	163007	124.24	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.261	105	54632	2.66	ug/l	99
95) Naphthalene	15.390	128	47439	4.39	ug/l	96

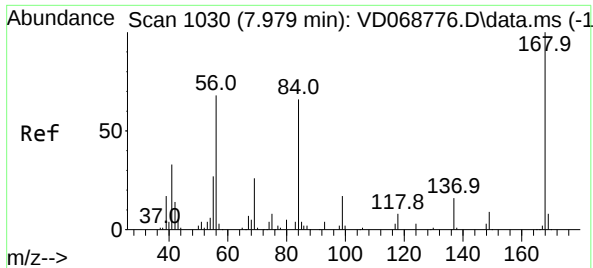
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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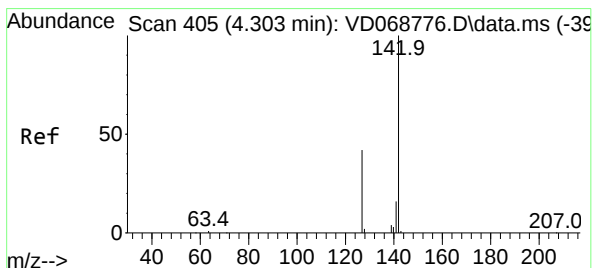
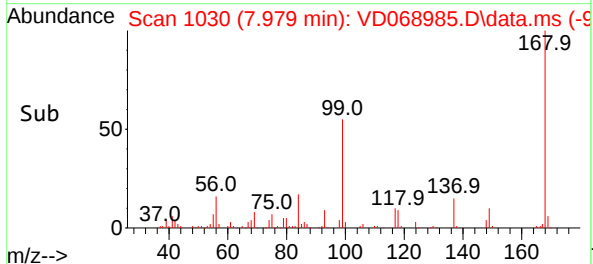
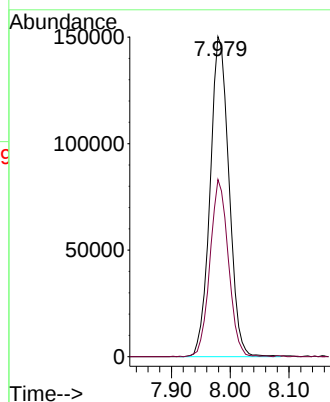
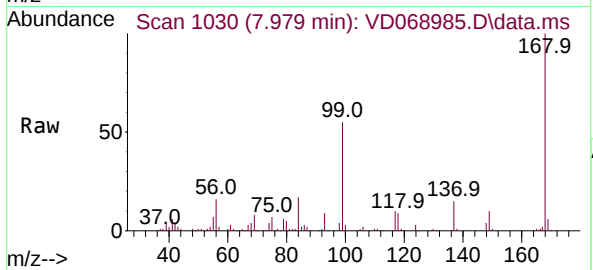




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.000 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

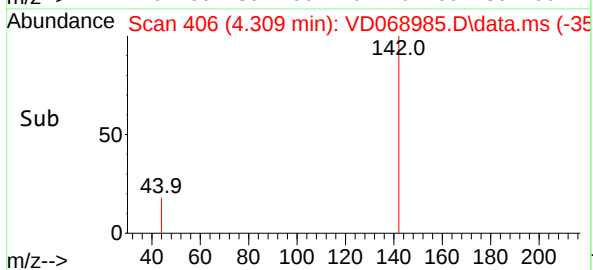
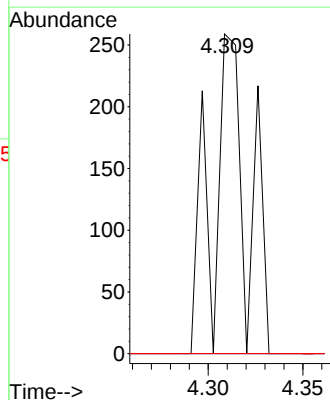
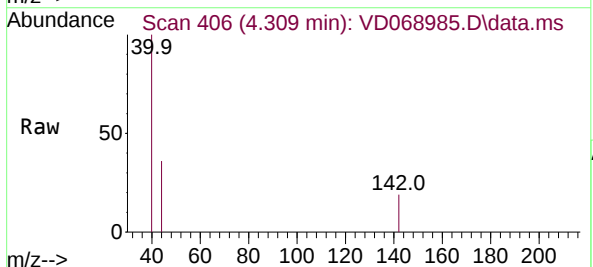
Instrument :
MSVOA_D
ClientSampleId :

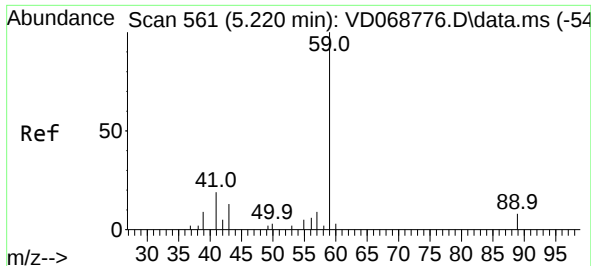
Tgt Ion:168 Resp: 334939
Ion Ratio Lower Upper
168 100
99 55.2 46.2 69.2



#10
Methyl Iodide
Concen: 2.32 ug/l
RT: 4.309 min Scan# 406
Delta R.T. 0.006 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Tgt Ion:142 Resp: 331
Ion Ratio Lower Upper
142 100
127 0.0 34.7 52.1#
141 0.0 11.0 16.4#

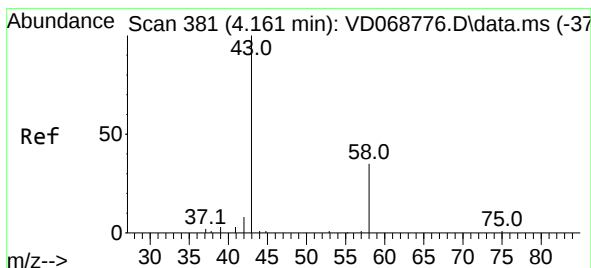
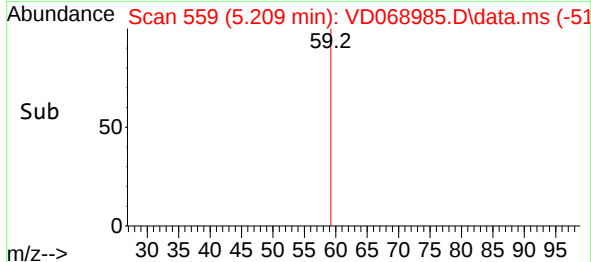
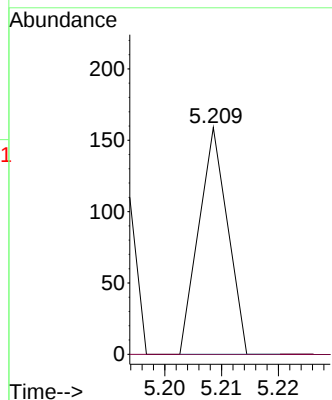
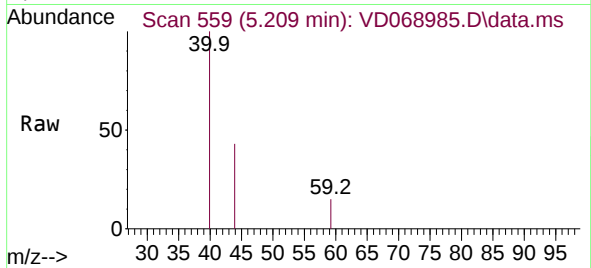




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.209 min Scan# 559
Delta R.T. -0.011 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

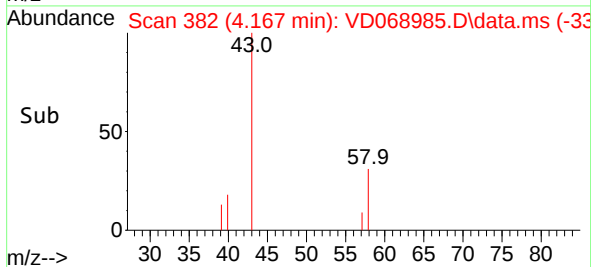
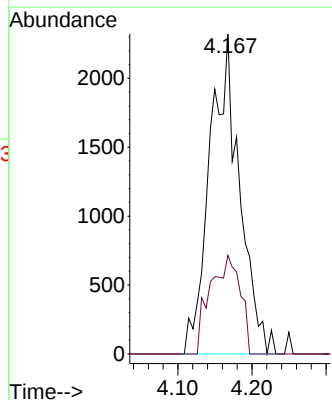
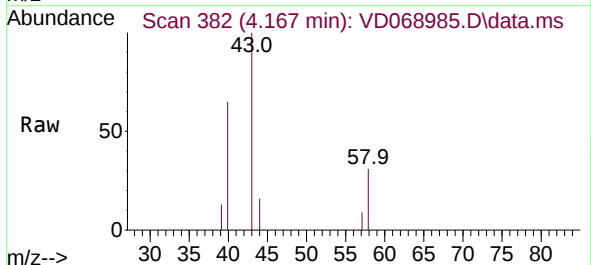
Instrument :
MSVOA_D
ClientSampled :

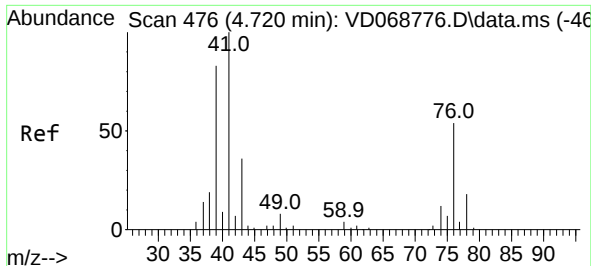
Tgt Ion: 59 Resp: 56
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#16
Acetone
Concen: 13.26 ug/l
RT: 4.167 min Scan# 382
Delta R.T. 0.006 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

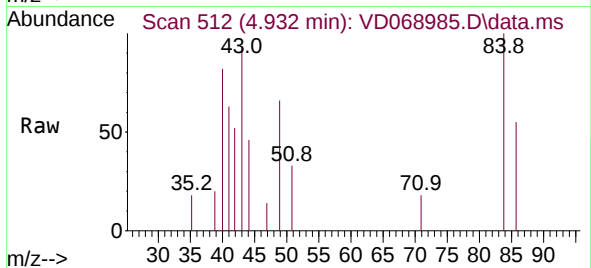
Tgt Ion: 43 Resp: 6499
Ion Ratio Lower Upper
43 100
58 30.8 28.0 42.0



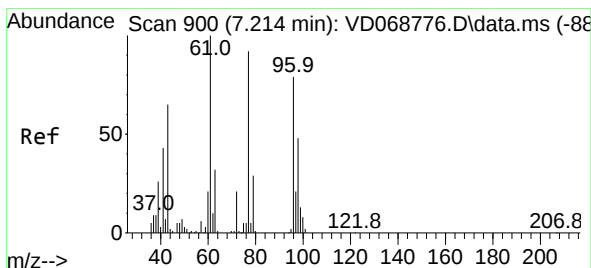
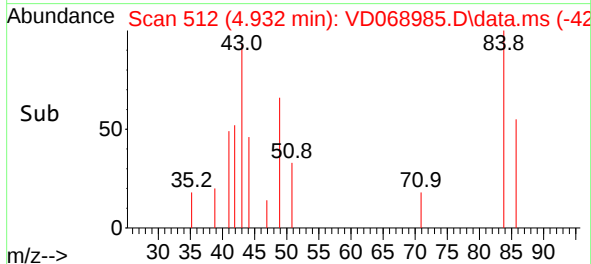
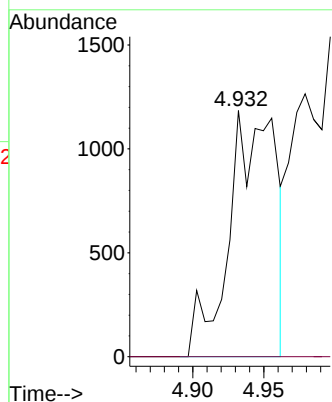


#18
Methyl Acetate
Concen: 2.01 ug/l
RT: 4.932 min Scan# 512
Delta R.T. 0.212 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Instrument :
MSVOA_D
ClientSampled :

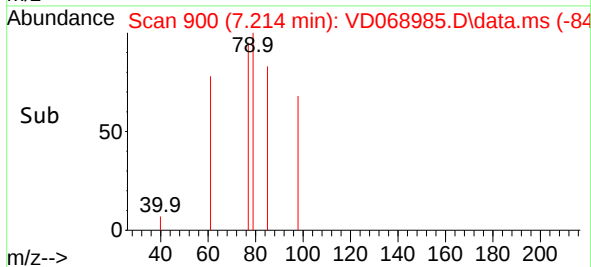
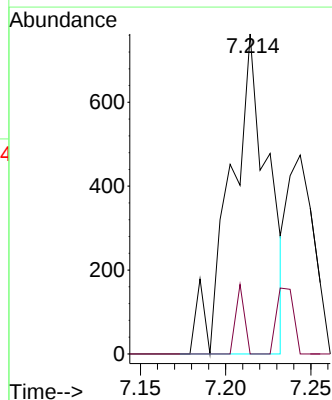
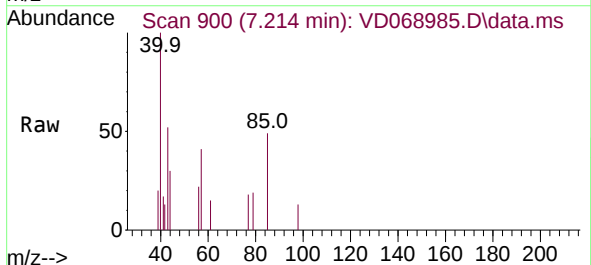


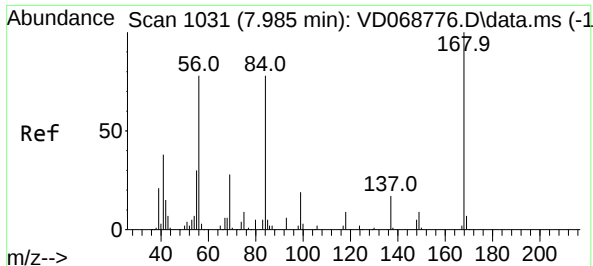
Tgt Ion: 43 Resp: 2701
Ion Ratio Lower Upper
43 100
74 0.0 25.4 38.2#



#25
2-Butanone
Concen: 1.69 ug/l
RT: 7.214 min Scan# 900
Delta R.T. 0.000 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

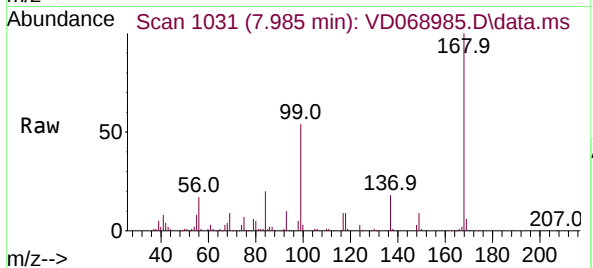
Tgt Ion: 43 Resp: 1169
Ion Ratio Lower Upper
43 100
72 0.0 28.6 43.0#



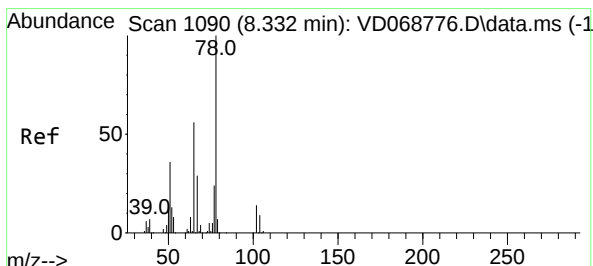
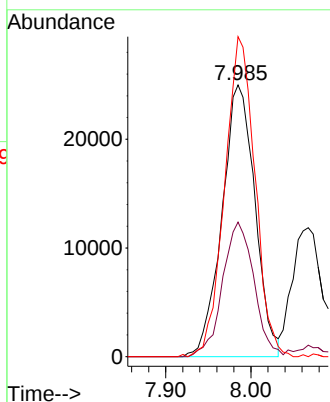
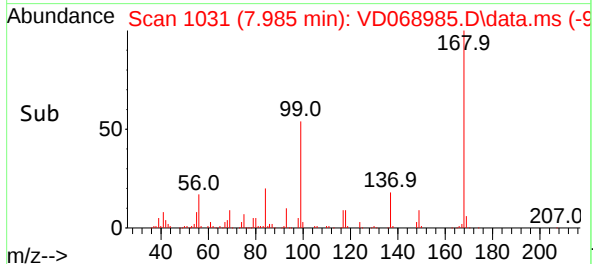


#31
Cyclohexane
Concen: 11.41 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

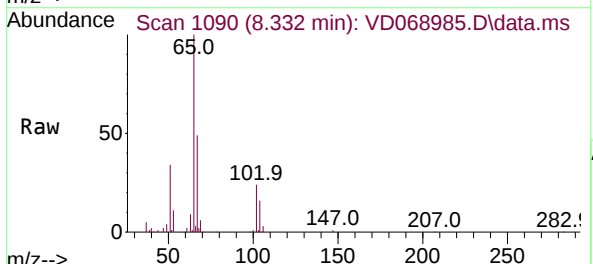
Instrument :
MSVOA_D
ClientSampled :



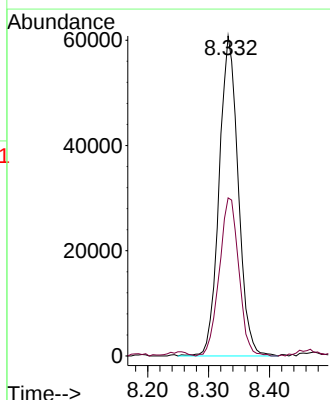
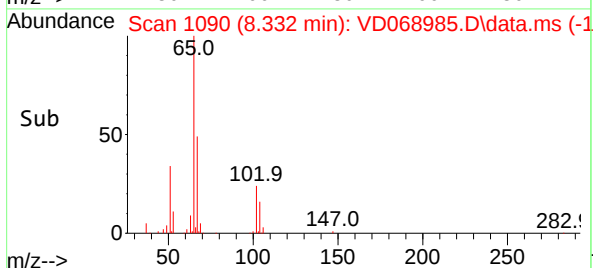
Tgt Ion: 56 Resp: 67233
Ion Ratio Lower Upper
56 100
69 49.6 30.0 45.0#
84 117.8 82.0 123.0

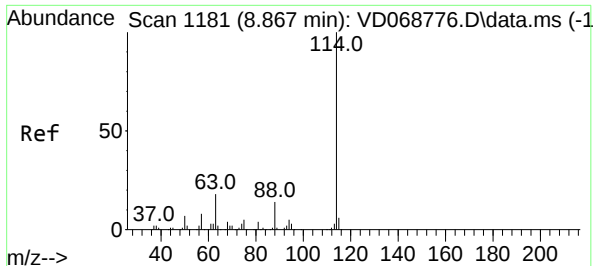


#33
1,2-Dichloroethane-d4
Concen: 37.30 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39



Tgt Ion: 65 Resp: 132035
Ion Ratio Lower Upper
65 100
67 50.6 0.0 106.0



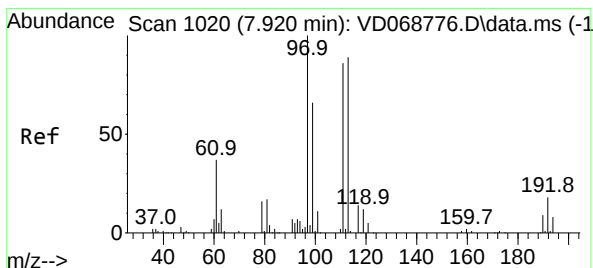
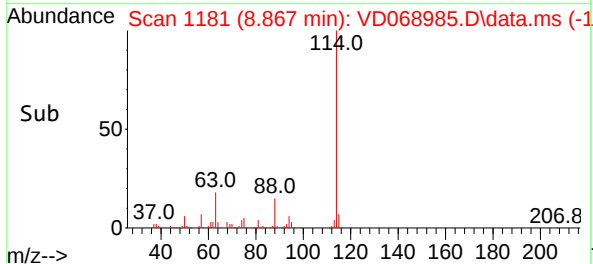
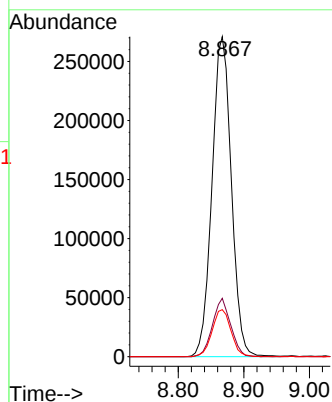
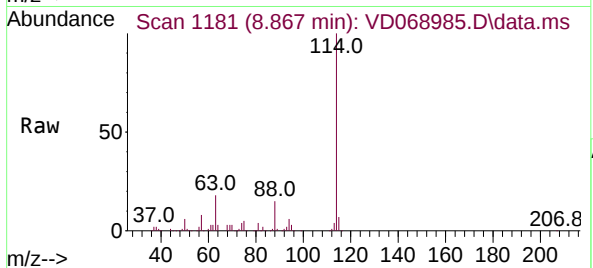


#34

1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Instrument :
MSVOA_D
ClientSampled :

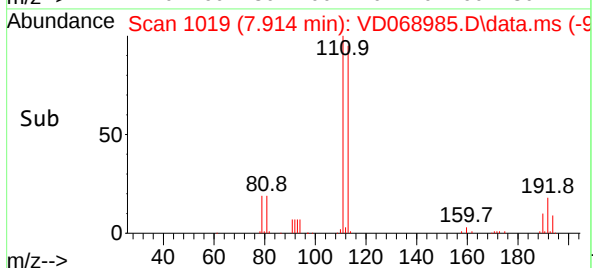
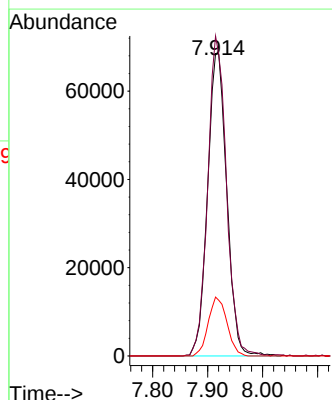
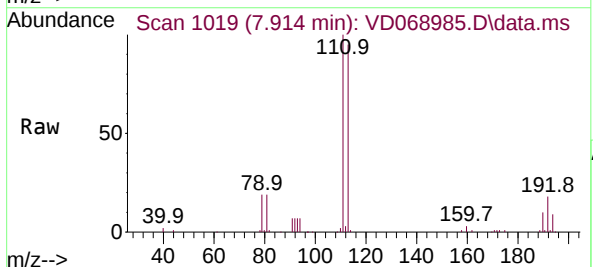
Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	38.2
88	14.7	0.0	29.4

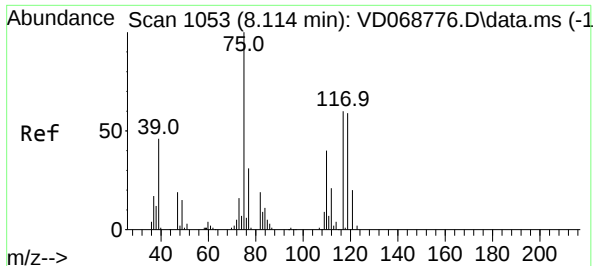


#35

Dibromofluoromethane
Concen: 46.31 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.5	123.7
192	18.9	15.1	22.7



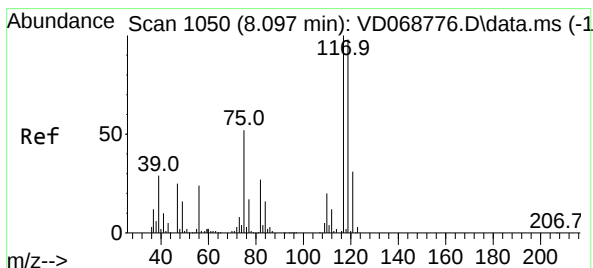
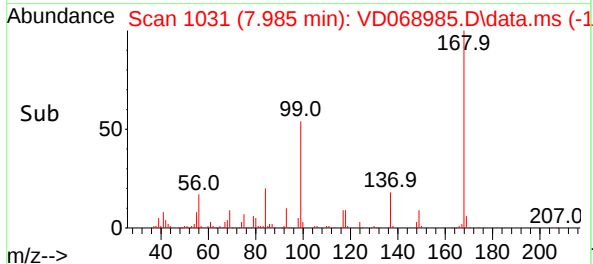
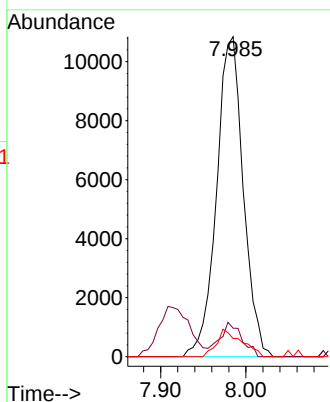
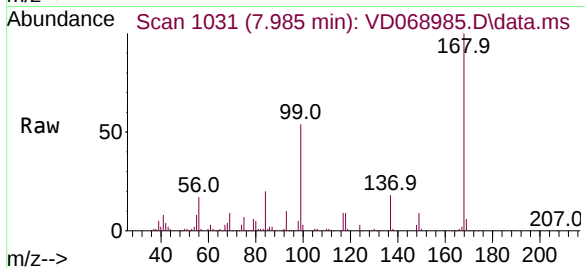


#36

1,1-Dichloropropene
Concen: 4.22 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.129 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Instrument :
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ClientSampled :

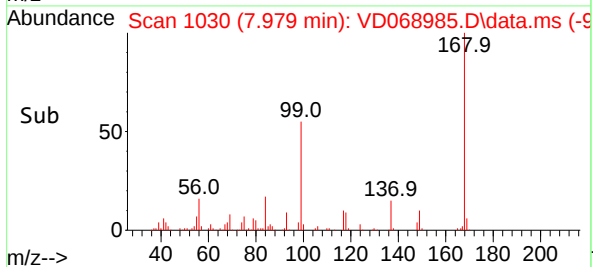
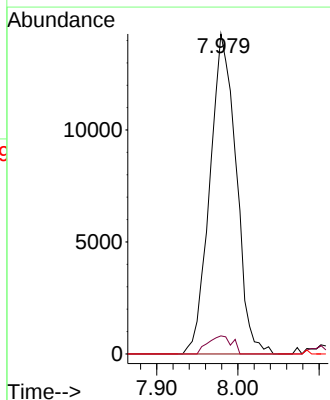
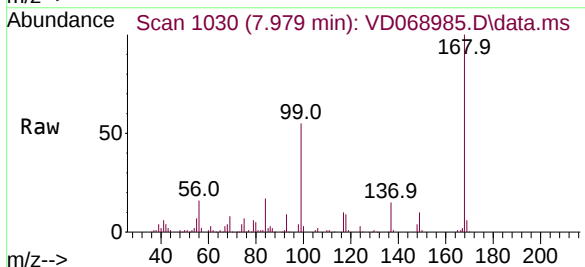
Tgt Ion: 75 Resp: 23679
Ion Ratio Lower Upper
75 100
110 8.8 18.1 54.4#
77 7.9 24.7 37.1#

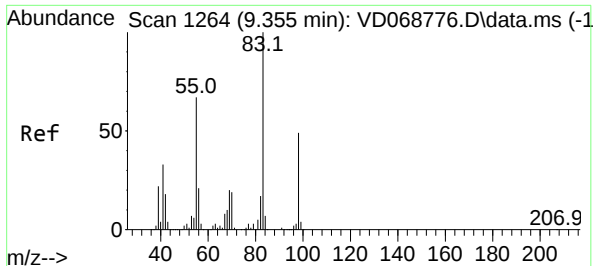


#38

Carbon Tetrachloride
Concen: 5.80 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Tgt Ion: 117 Resp: 32234
Ion Ratio Lower Upper
117 100
119 5.6 76.6 115.0#
121 0.0 26.1 39.1#





#39

Methylcyclohexane

Concen: 52.45 ug/l

RT: 9.355 min Scan# 1264

Delta R.T. 0.000 min

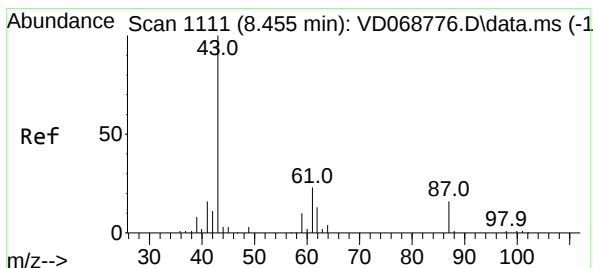
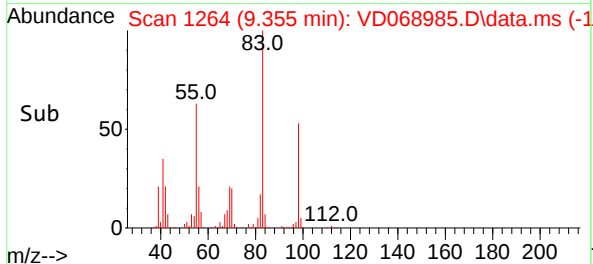
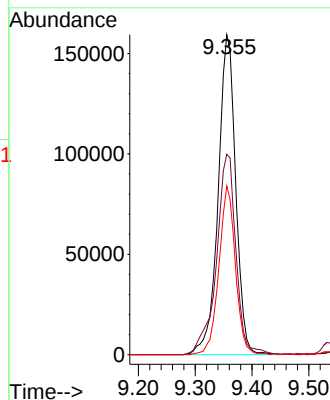
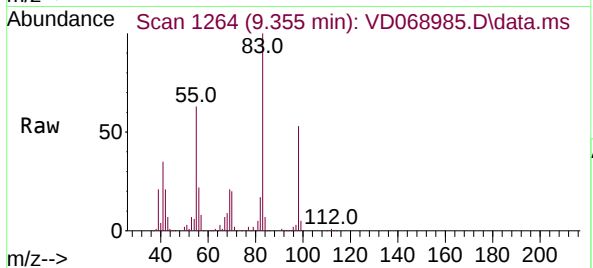
Lab File: VD068985.D

Acq: 26 Apr 2021 13:39

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion: 83 Resp: 343164

Ion	Ratio	Lower	Upper
83	100		
55	62.7	51.7	77.5
98	52.8	38.8	58.2



#43

Isopropyl Acetate

Concen: 3.48 ug/l

RT: 8.455 min Scan# 1111

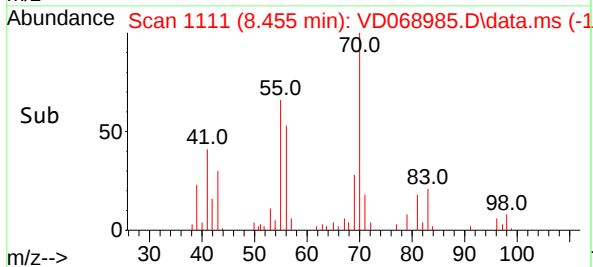
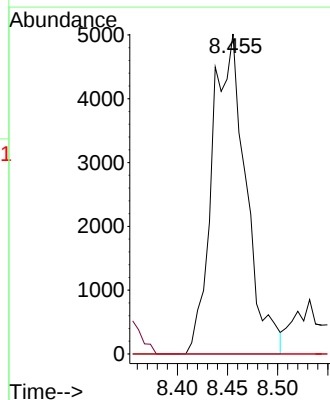
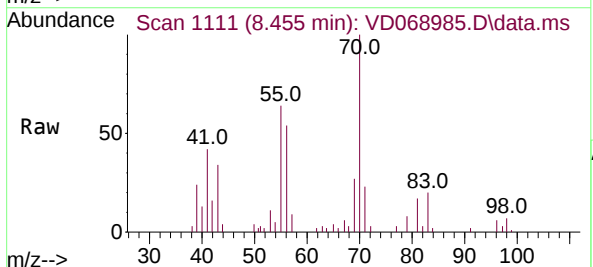
Delta R.T. 0.000 min

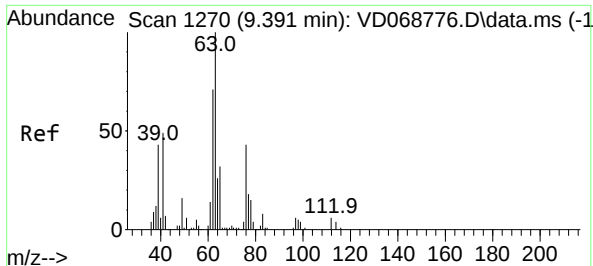
Lab File: VD068985.D

Acq: 26 Apr 2021 13:39

Tgt Ion: 43 Resp: 11687

Ion	Ratio	Lower	Upper
43	100		
61	0.0	29.5	44.3#
87	0.0	13.5	20.3#



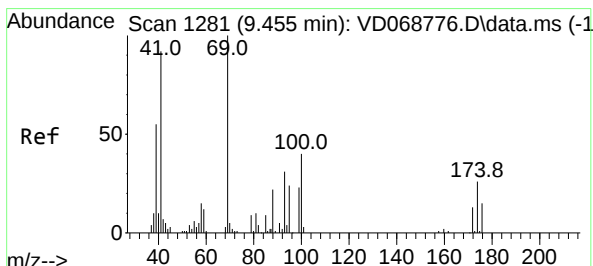
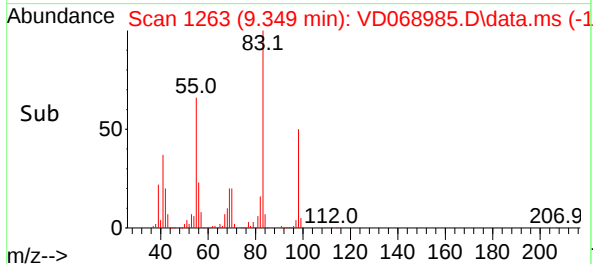
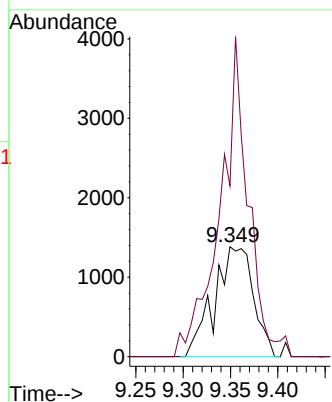
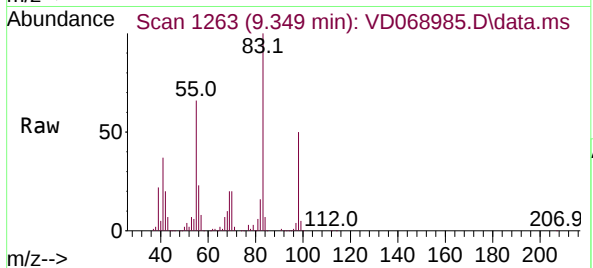


#45

1,2-Dichloropropane
Concen: 1.02 ug/l
RT: 9.349 min Scan# 1263
Delta R.T. -0.042 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Instrument :
MSVOA_D
ClientSampled :

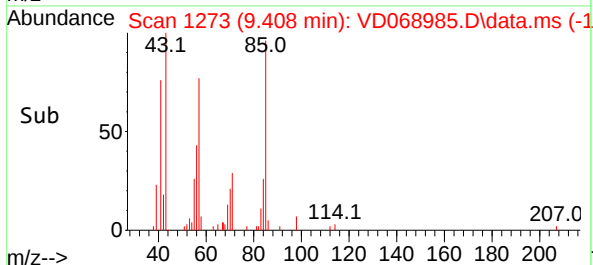
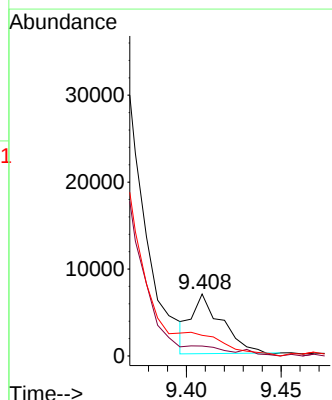
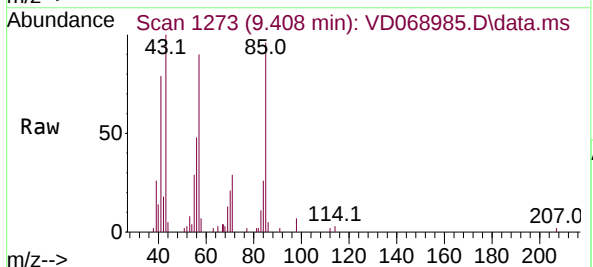
Tgt Ion: 63 Resp: 3985
Ion Ratio Lower Upper
63 100
65 141.0 27.0 40.4#

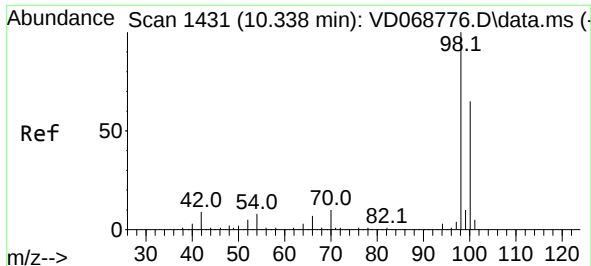


#48

Methyl methacrylate
Concen: 4.58 ug/l
RT: 9.408 min Scan# 1273
Delta R.T. -0.047 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Tgt Ion: 41 Resp: 7588
Ion Ratio Lower Upper
41 100
69 0.0 83.0 124.6#
39 0.0 47.0 70.6#

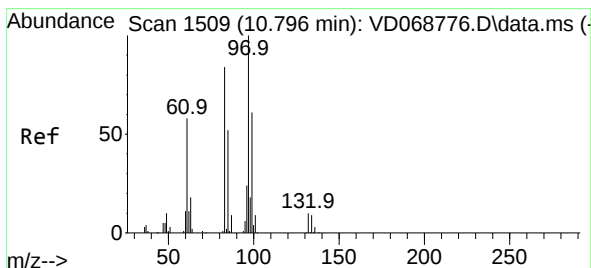
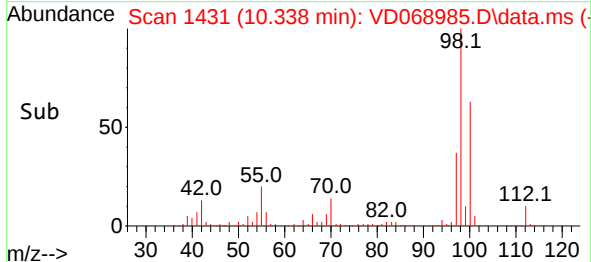
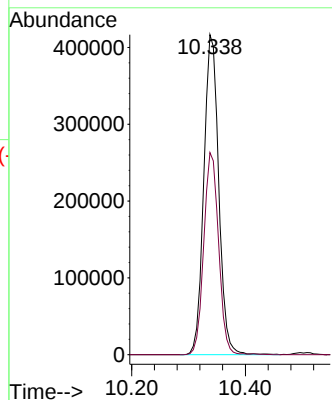
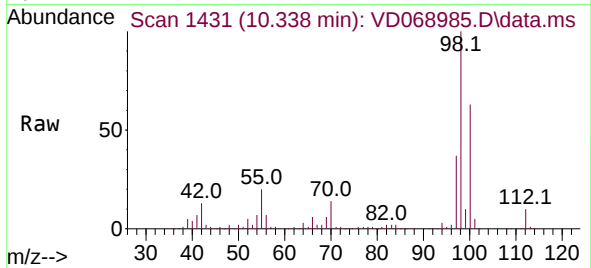




#50
Toluene-d8
Concen: 55.67 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

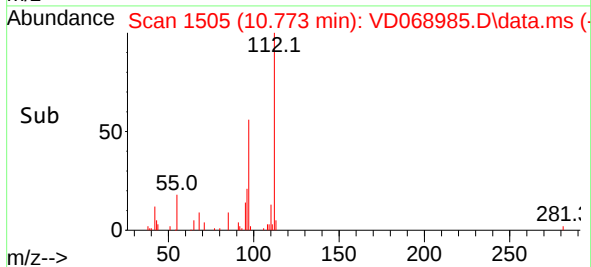
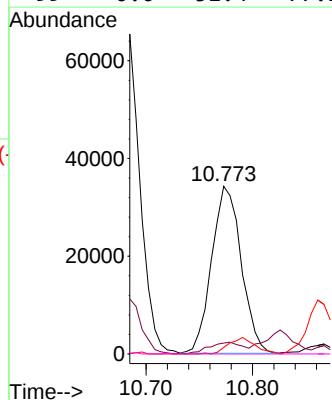
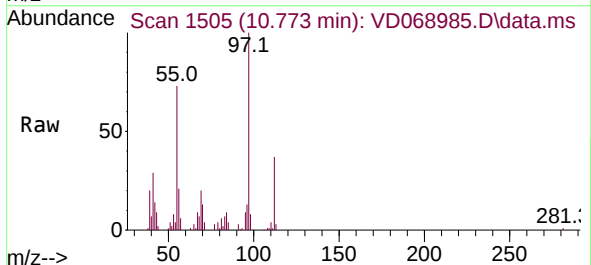
Instrument :
MSVOA_D
ClientSampled :

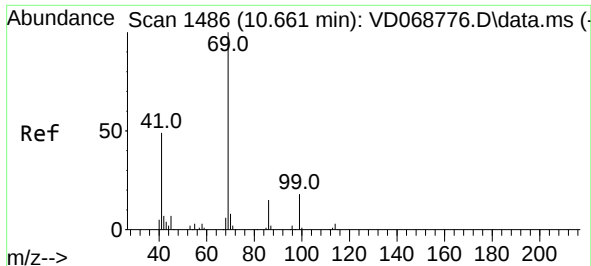
Tgt Ion: 98 Resp: 757070
Ion Ratio Lower Upper
98 100
100 62.5 51.8 77.6



#55
1,1,2-Trichloroethane
Concen: 21.33 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.023 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Tgt Ion: 97 Resp: 65894
Ion Ratio Lower Upper
97 100
83 6.1 65.7 98.5#
85 3.9 44.3 66.5#
99 0.0 51.4 77.2#

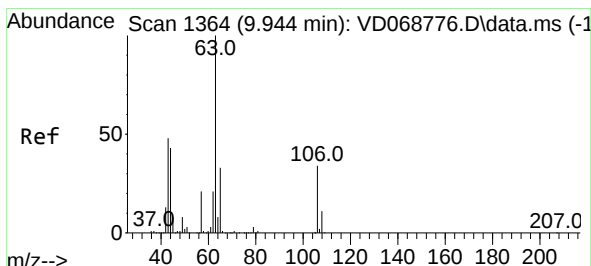
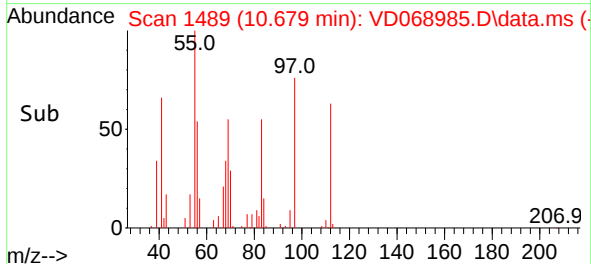
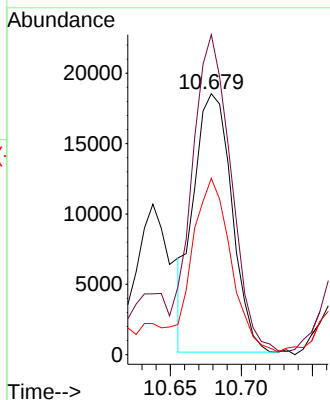
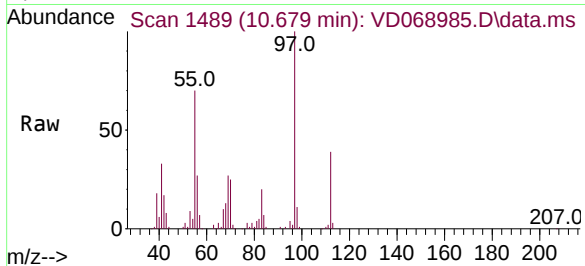




#56
Ethyl methacrylate
Concen: 10.83 ug/l
RT: 10.679 min Scan# 1489
Delta R.T. 0.018 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

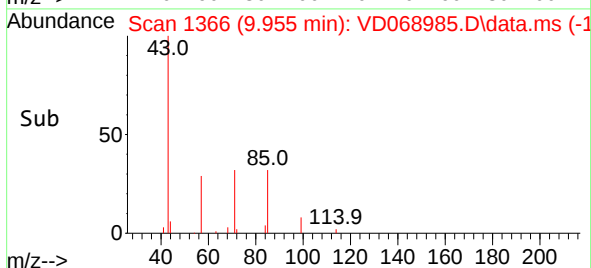
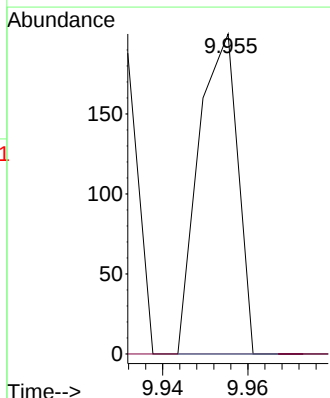
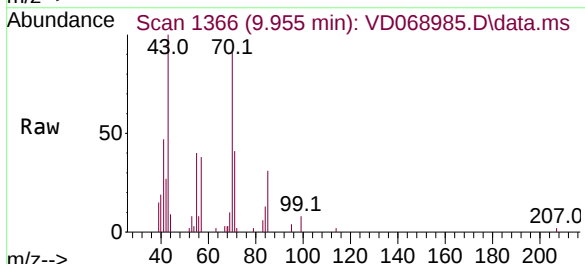
Instrument :
MSVOA_D
ClientSampled :

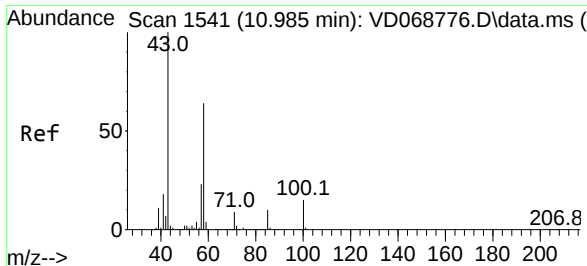
Tgt Ion: 69 Resp: 34418
Ion Ratio Lower Upper
69 100
41 124.5 42.2 63.4#
39 69.0 24.2 36.2#



#58
2-Chloroethyl Vinyl ether
Concen: 17.06 ug/l
RT: 9.955 min Scan# 1366
Delta R.T. 0.011 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Tgt Ion: 63 Resp: 127
Ion Ratio Lower Upper
63 100
106 0.0 24.6 36.8#

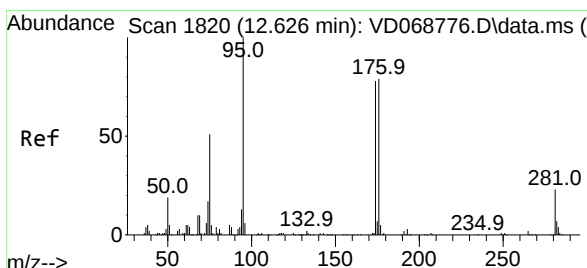
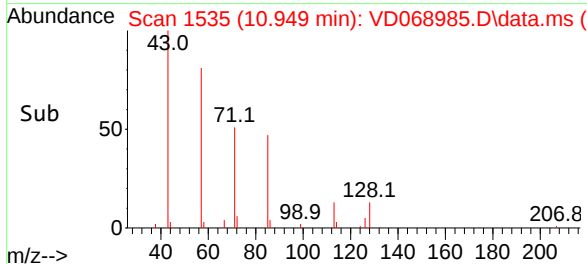
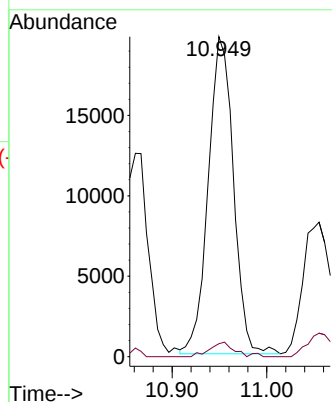
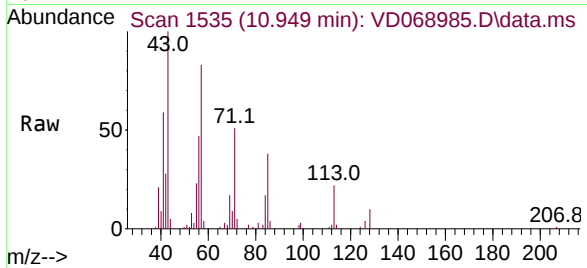




#59
2-Hexanone
Concen: 32.15 ug/l
RT: 10.949 min Scan# 1535
Delta R.T. -0.036 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

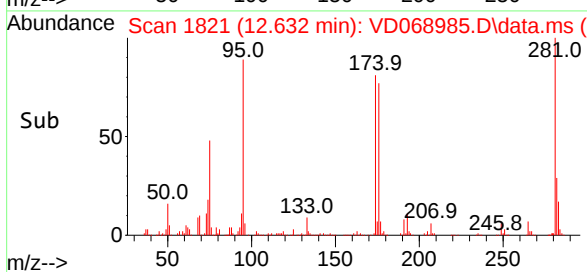
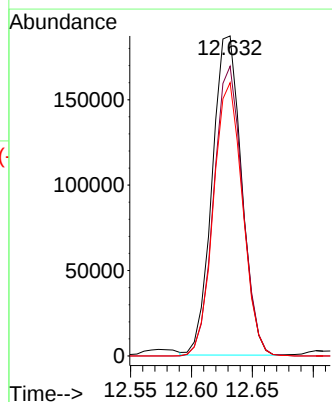
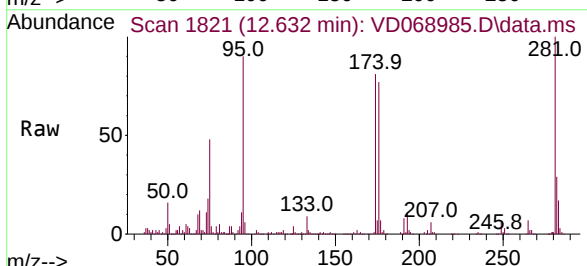
Instrument :
MSVOA_D
ClientSampled :

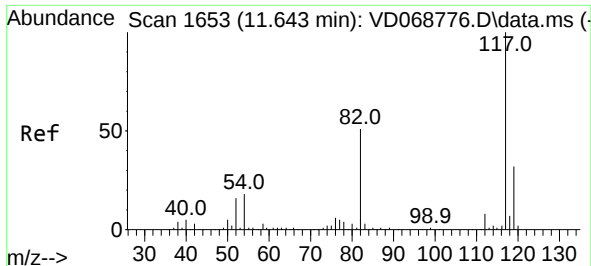
Tgt Ion: 43 Resp: 36428
Ion Ratio Lower Upper
43 100
58 4.1 31.3 93.8#



#62
4-Bromofluorobenzene
Concen: 69.42 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Tgt Ion: 95 Resp: 313567
Ion Ratio Lower Upper
95 100
174 88.9 0.0 168.0
176 84.7 0.0 160.2

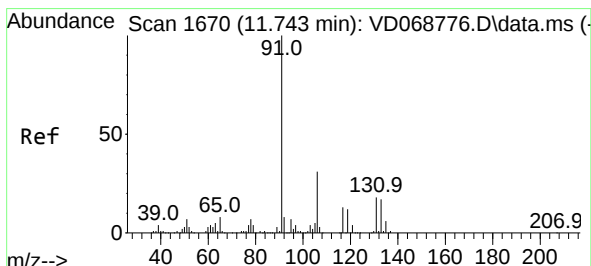
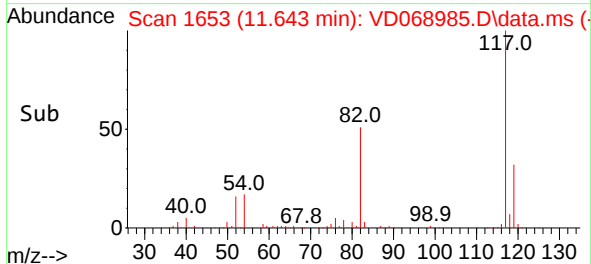
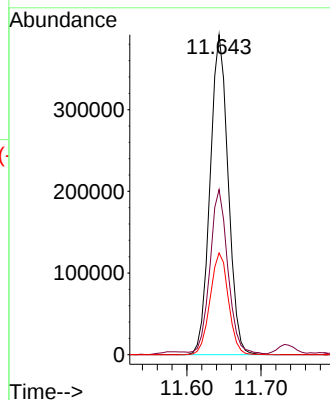
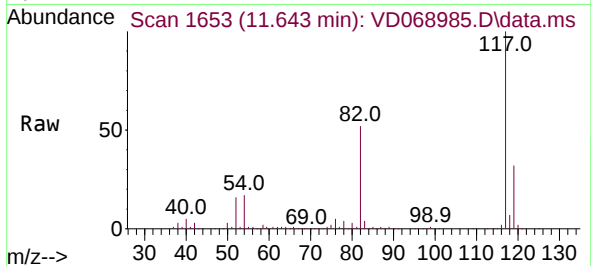




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.643 min Scan# 1653
Delta R.T. 0.000 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

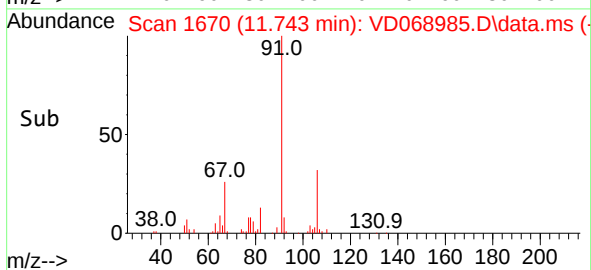
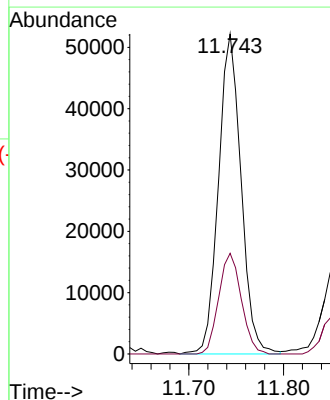
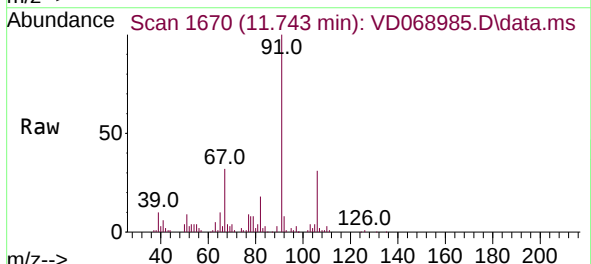
Instrument :
MSVOA_D
ClientSampled :

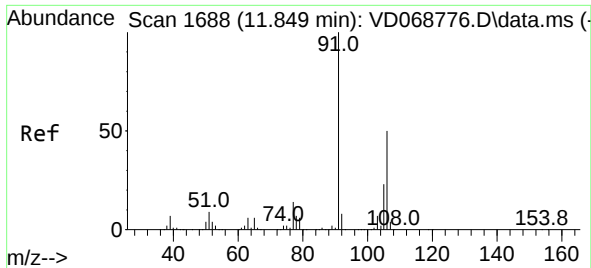
Tgt Ion:117 Resp: 662432
Ion Ratio Lower Upper
117 100
82 50.8 43.5 65.3
119 31.8 26.7 40.1



#67
Ethyl Benzene
Concen: 3.48 ug/l
RT: 11.743 min Scan# 1670
Delta R.T. 0.000 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Tgt Ion: 91 Resp: 86502
Ion Ratio Lower Upper
91 100
106 31.5 25.1 37.7

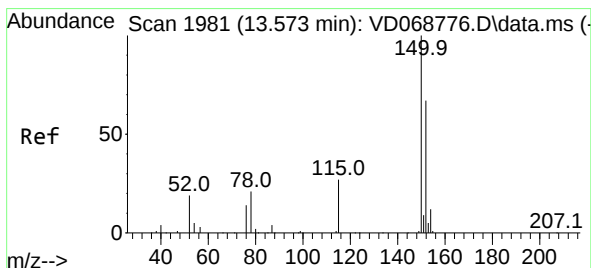
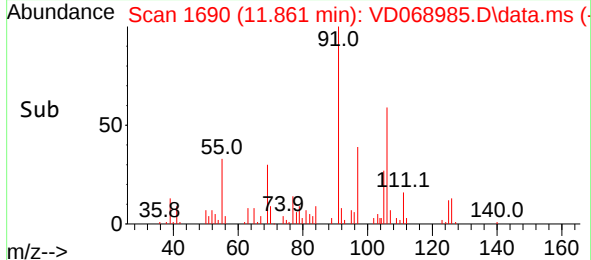
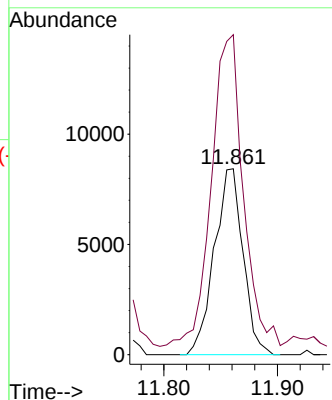
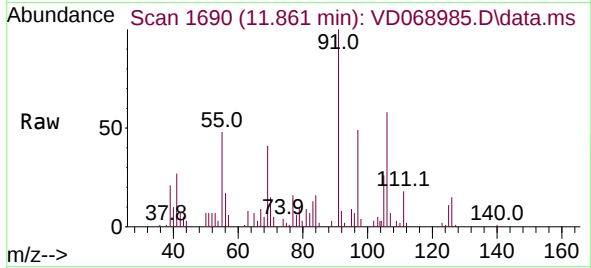




#68
m/p-Xylenes
Concen: 1.54 ug/l
RT: 11.861 min Scan# 1690
Delta R.T. 0.012 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

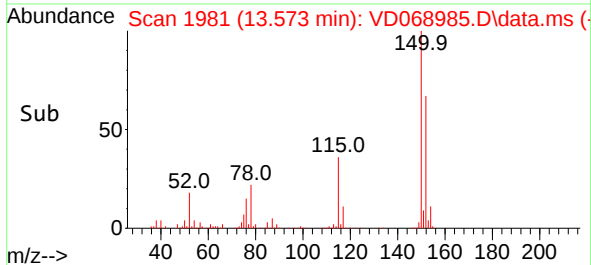
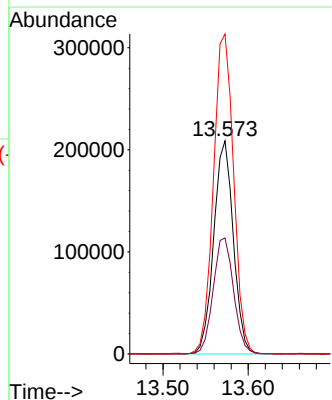
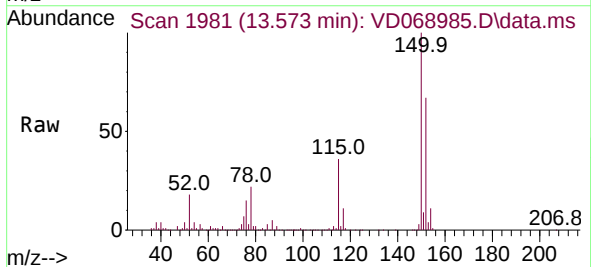
Instrument :
MSVOA_D
ClientSampleId :

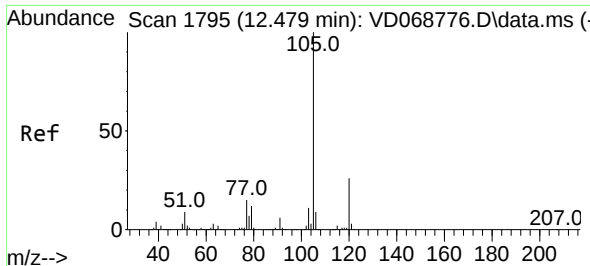
Tgt Ion:106 Resp: 14782
Ion Ratio Lower Upper
106 100
91 203.7 158.6 238.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. -0.000 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Tgt Ion:152 Resp: 333300
Ion Ratio Lower Upper
152 100
115 57.0 29.3 87.8
150 154.3 0.0 347.6

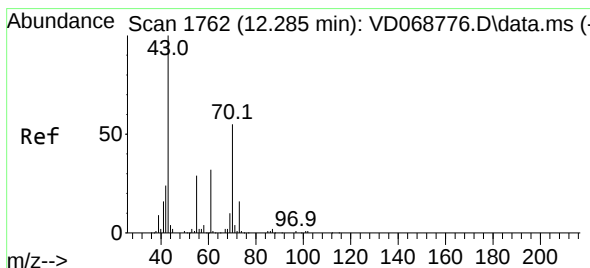
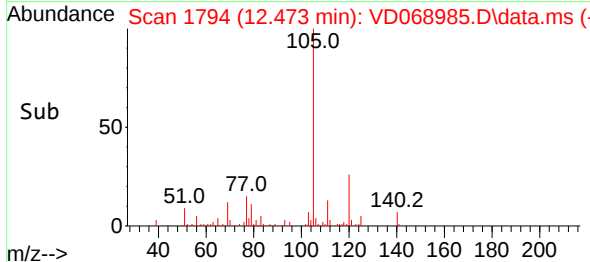
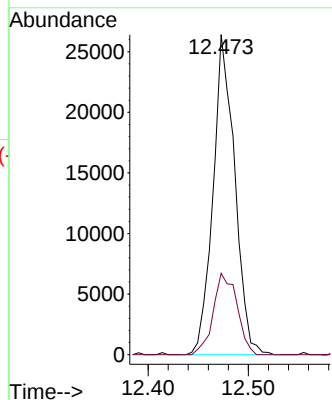
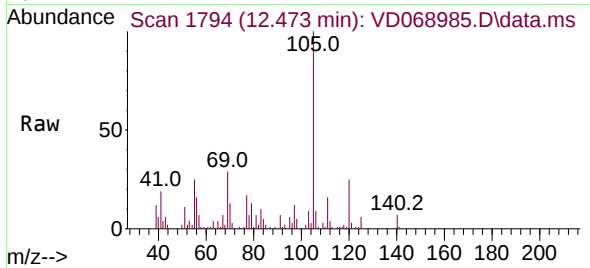




#73
Isopropylbenzene
Concen: 1.63 ug/l
RT: 12.473 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

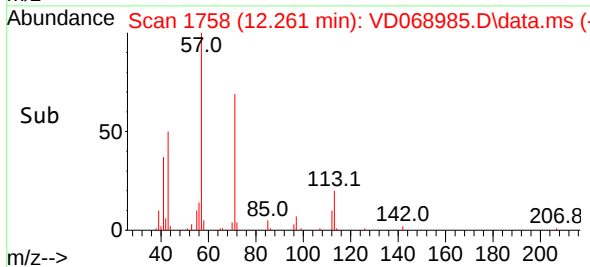
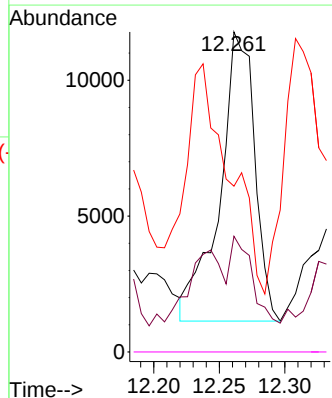
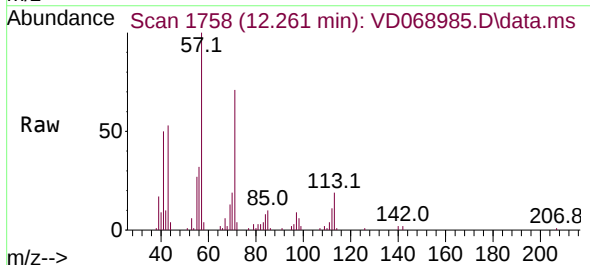
Instrument :
MSVOA_D
ClientSampled :

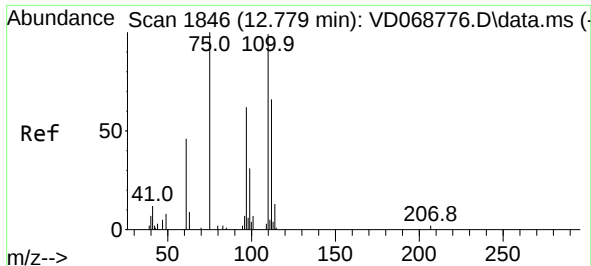
Tgt Ion:105 Resp: 39618
Ion Ratio Lower Upper
105 100
120 27.8 13.4 40.2



#74
N-ethyl acetate
Concen: 4.77 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.024 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Tgt Ion: 43 Resp: 19677
Ion Ratio Lower Upper
43 100
70 17.7 41.9 62.9#
55 0.0 22.8 34.2#
61 0.0 22.7 34.1#

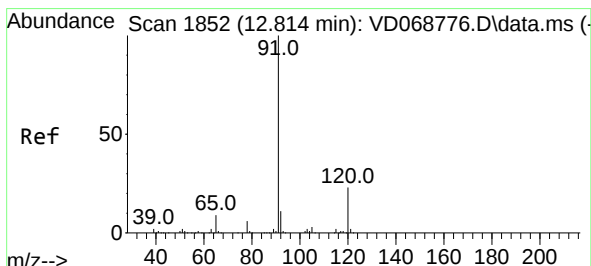
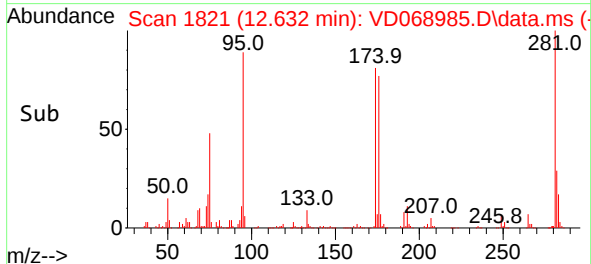
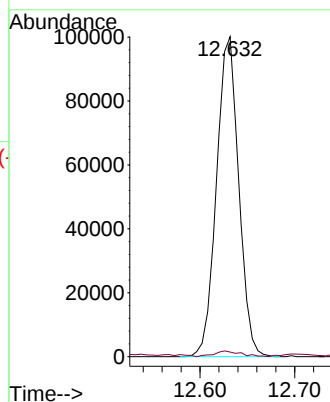
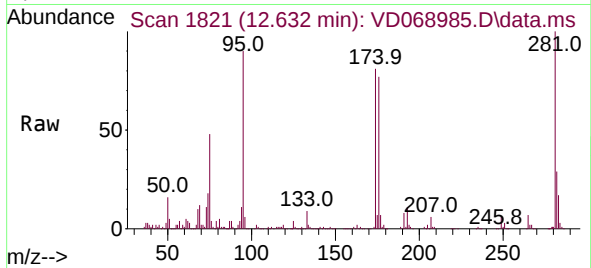




#76
1,2,3-Trichloropropane
Concen: 53.53 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.147 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

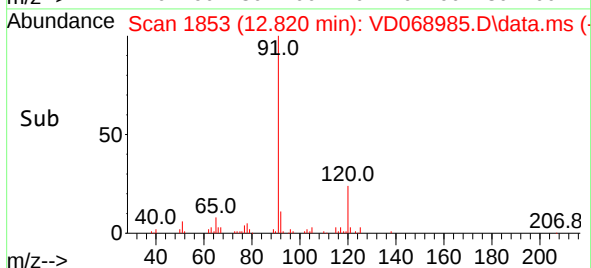
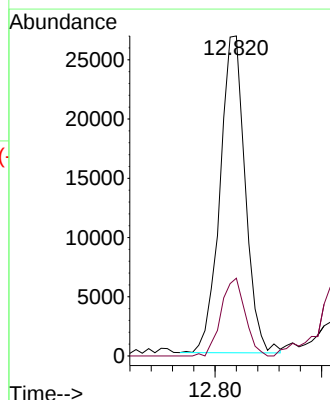
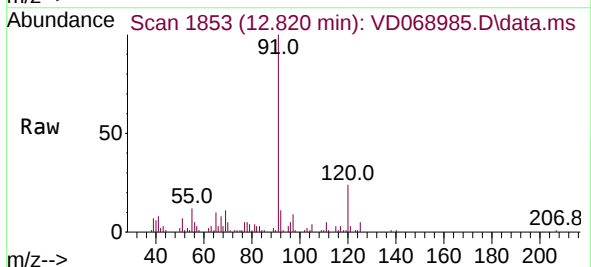
Instrument :
MSVOA_D
ClientSampled :

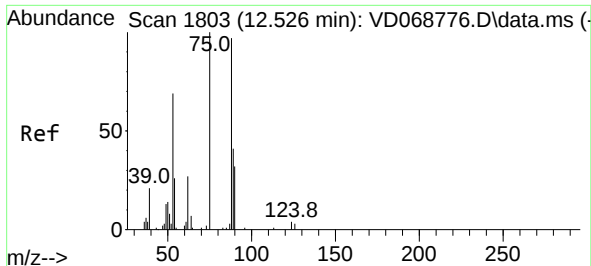
Tgt Ion: 75 Resp: 163007
Ion Ratio Lower Upper
75 100
77 2.1 0.0 0.0#



#78
n-propylbenzene
Concen: 1.49 ug/l
RT: 12.820 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

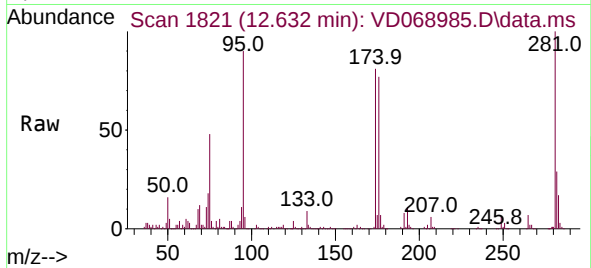
Tgt Ion: 91 Resp: 44085
Ion Ratio Lower Upper
91 100
120 23.3 11.4 34.2



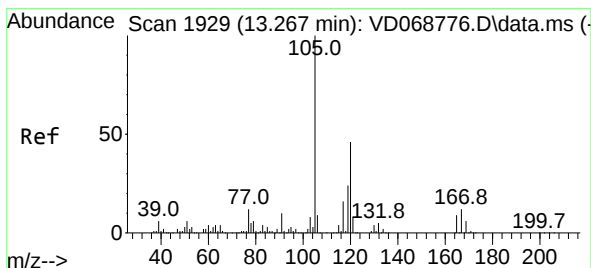
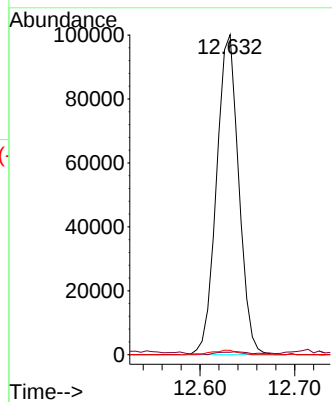
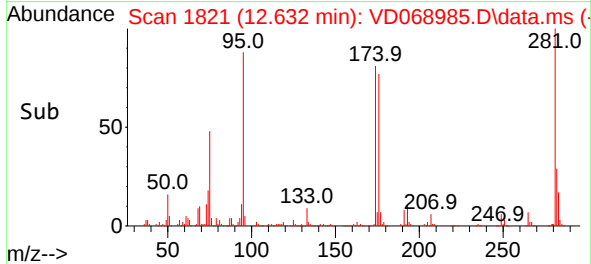


#81
trans-1,4-Dichloro-2-butene
Concen: 124.24 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

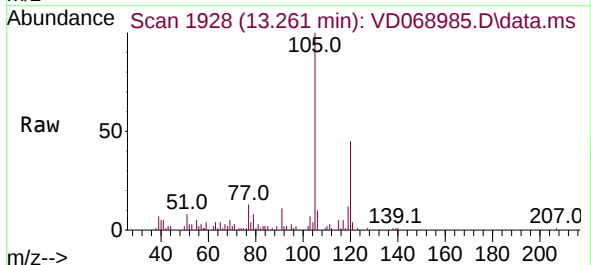
Instrument :
MSVOA_D
ClientSampleId :



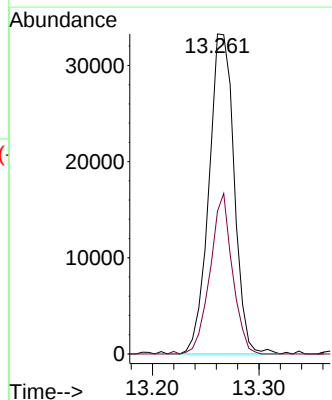
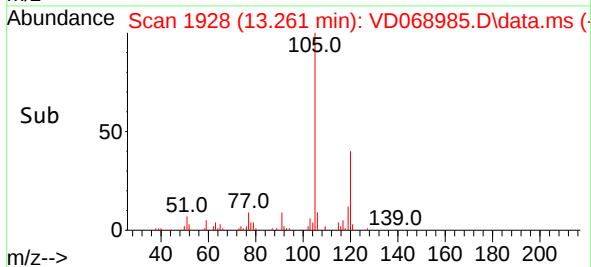
Tgt Ion: 75 Resp: 163007
Ion Ratio Lower Upper
75 100
53 1.4 66.8 100.2#
89 1.5 36.6 54.8#

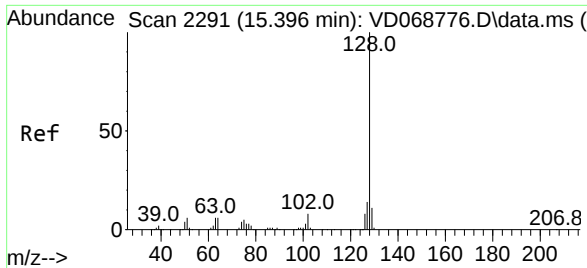


#84
1,2,4-Trimethylbenzene
Concen: 2.66 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. -0.006 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39



Tgt Ion: 105 Resp: 54632
Ion Ratio Lower Upper
105 100
120 44.3 22.6 67.7





#95
Naphthalene
Concen: 4.39 ug/l
RT: 15.390 min Scan# 2290
Delta R.T. -0.006 min
Lab File: VD068985.D
Acq: 26 Apr 2021 13:39

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:	128	Resp:	47439
Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.2	15.4
129	12.7	8.9	13.3

