

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD033121\
 Data File : VD068746.D
 Acq On : 31 Mar 2021 19:54
 Operator : VA/SY
 Sample : M1836-13
 Misc : 9.44G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 01 00:47:13 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 20 02:00:55 2021
 Response via : Initial Calibration

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

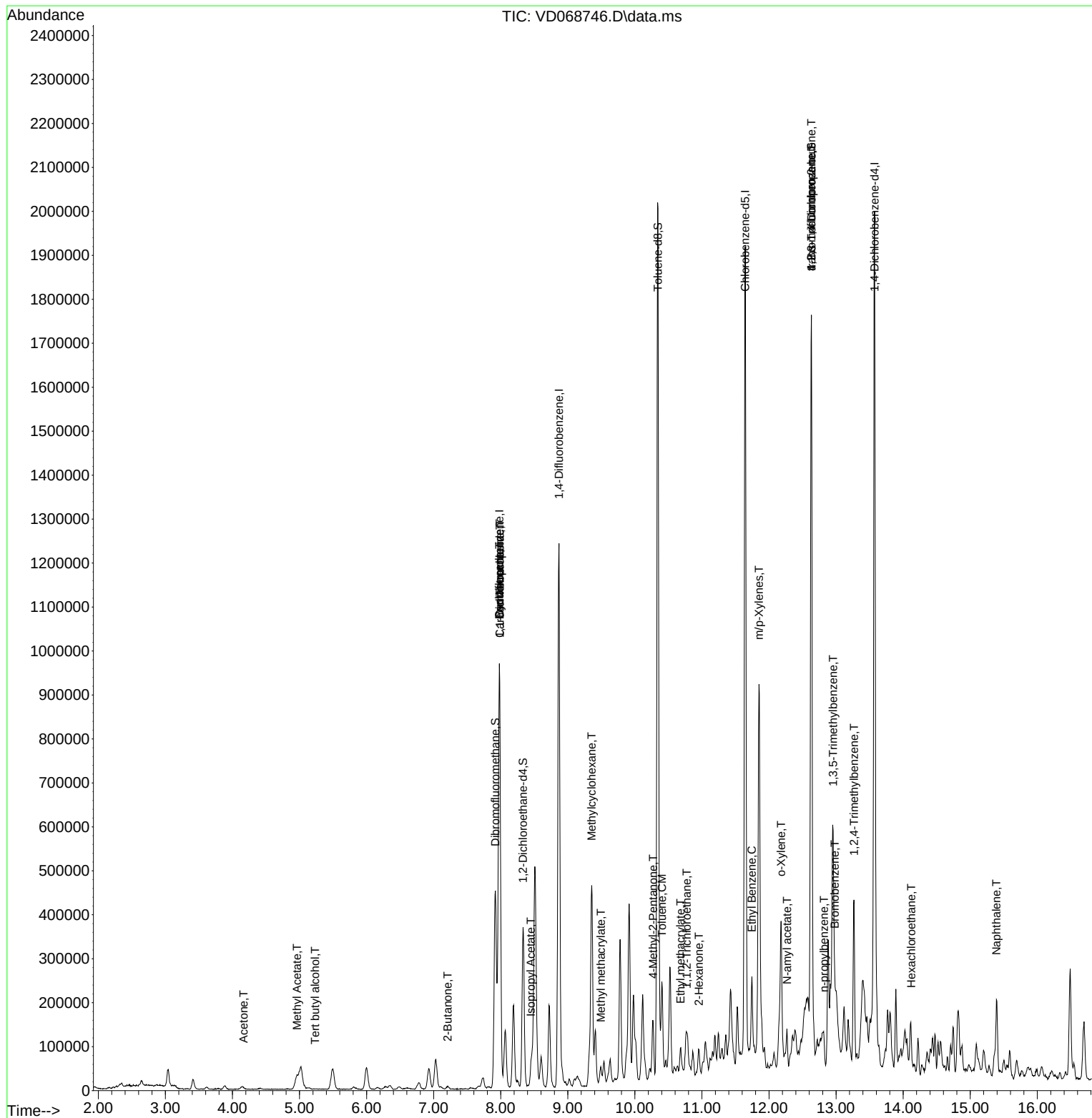
Internal Standards						
1) Pentafluorobenzene	7.979	168	661212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	1092416	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	1113994	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	544842	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	294499	44.17	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	88.34%		
35) Dibromofluoromethane	7.920	113	332492	48.92	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	97.84%		
50) Toluene-d8	10.344	98	1363969	52.05	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	104.10%		
62) 4-Bromofluorobenzene	12.632	95	514456	60.55	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	121.10%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.232	59	444	1.45	ug/l #	73
13) Acrolein	3.897	56	75	Below Cal	#	16
16) Acetone	4.168	43	5780	7.15	ug/l #	84
18) Methyl Acetate	4.962	43	15808	7.11	ug/l #	43
20) Methylene Chloride	4.968	84	14412	Below Cal		88
25) 2-Butanone	7.209	43	1396	1.04	ug/l #	39
31) Cyclohexane	7.979	56	76802	7.14	ug/l #	87
36) 1,1-Dichloropropene	7.985	75	48437	4.96	ug/l #	51
38) Carbon Tetrachloride	7.985	117	62234	6.39	ug/l #	16
39) Methylcyclohexane	9.356	83	176849	14.68	ug/l	95
43) Isopropyl Acetate	8.450	43	10030	1.70	ug/l #	45
48) Methyl methacrylate	9.491	41	8670	2.90	ug/l #	20
51) 4-Methyl-2-Pentanone	10.273	43	13421	4.36	ug/l #	83
52) Toluene	10.403	92	91683	5.09	ug/l	100
55) 1,1,2-Trichloroethane	10.773	97	30970	5.68	ug/l #	22
56) Ethyl methacrylate	10.679	69	6859	1.17	ug/l #	1
59) 2-Hexanone	10.955	43	18841	9.13	ug/l #	26
67) Ethyl Benzene	11.744	91	121275	3.17	ug/l	99
68) m/p-Xylenes	11.850	106	228136	15.31	ug/l	100
69) o-Xylene	12.179	106	86374	6.25	ug/l	99
74) N-amyl acetate	12.267	43	14737	2.36	ug/l #	57
76) 1,2,3-Trichloropropane	12.632	75	254725	56.17	ug/l #	100
77) Bromobenzene	12.979	156	203255	23.15	ug/l #	1
78) n-propylbenzene	12.820	91	47320	1.06	ug/l	94
80) 1,3,5-Trimethylbenzene	12.955	105	114042	3.77	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.632	75	254725	127.80	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.267	105	221822	7.09	ug/l	97
90) Hexachloroethane	14.120	117	6381	1.04	ug/l #	14
95) Naphthalene	15.391	128	161736	9.56	ug/l	97

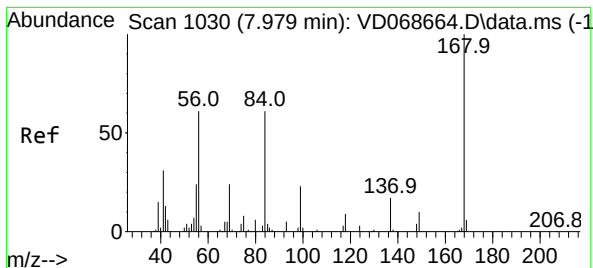
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Mar 20 02:00:55 2021
Response via : Initial Calibration

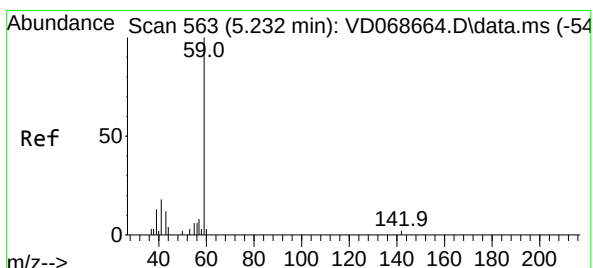
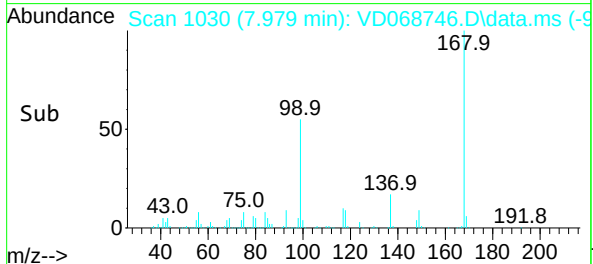
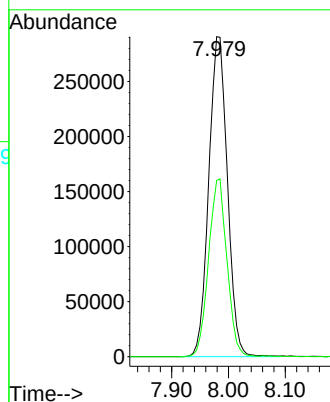
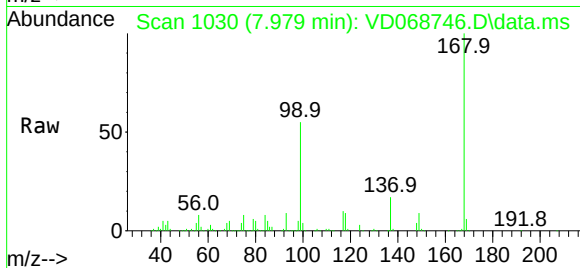




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

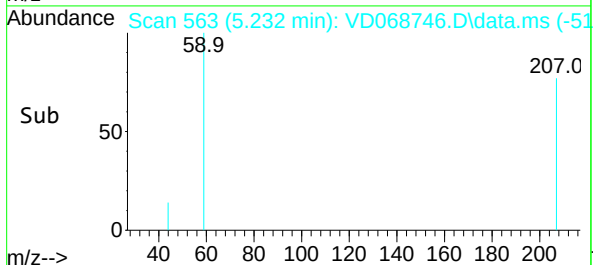
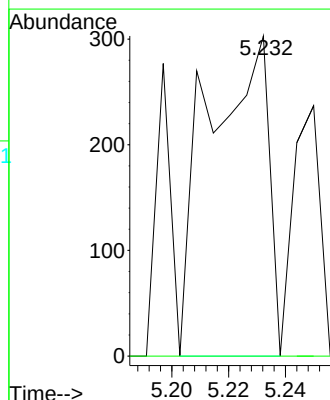
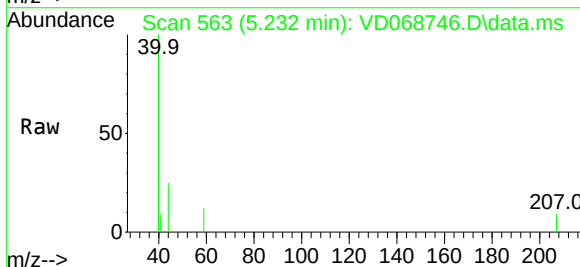
Instrument :
MSVOA_D
ClientSampled :

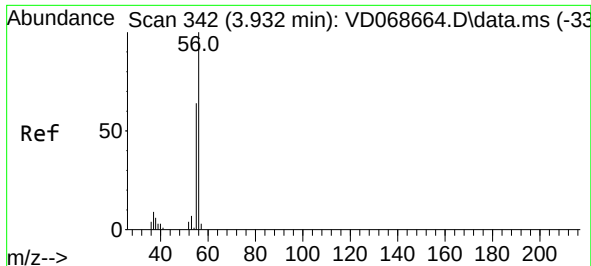
Tgt Ion:168 Resp: 661212
Ion Ratio Lower Upper
168 100
99 55.1 46.2 69.2



#11
Tert butyl alcohol
Concen: 1.45 ug/l
RT: 5.232 min Scan# 563
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 59 Resp: 444
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

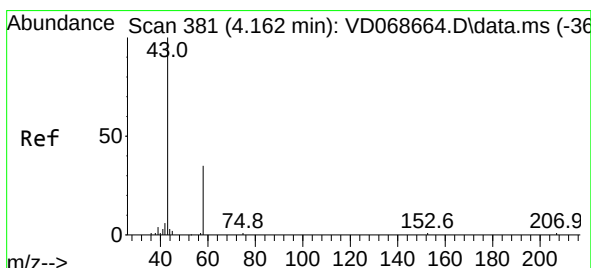
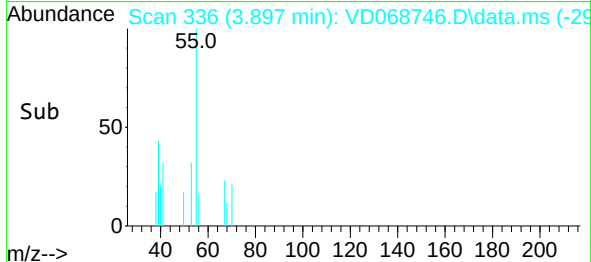
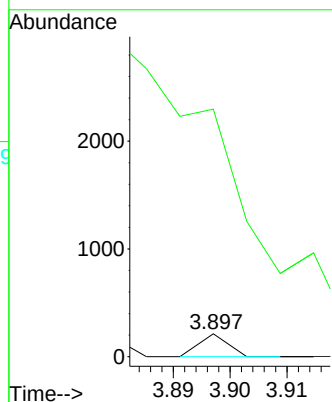
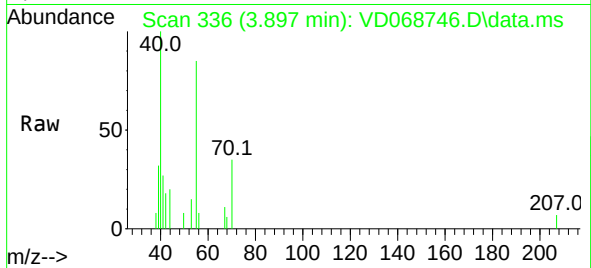




#13
Acrolein
Concen: Below Cal
RT: 3.897 min Scan# 336
Delta R.T. -0.035 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

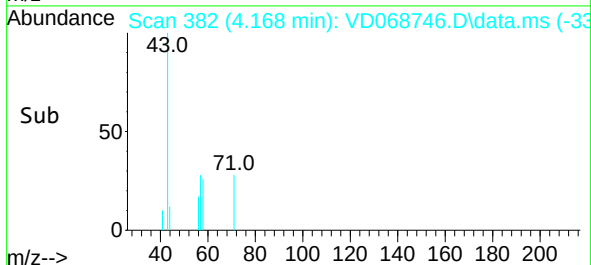
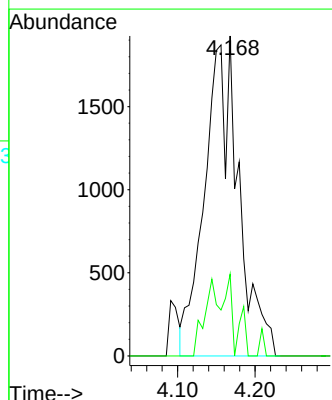
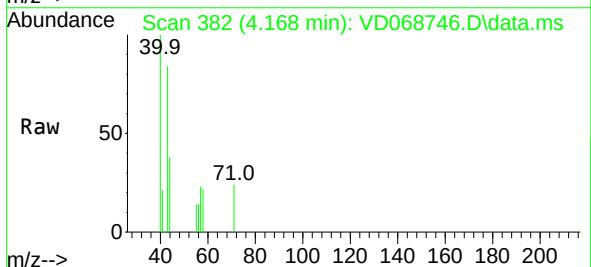
Instrument :
MSVOA_D
ClientSampled :

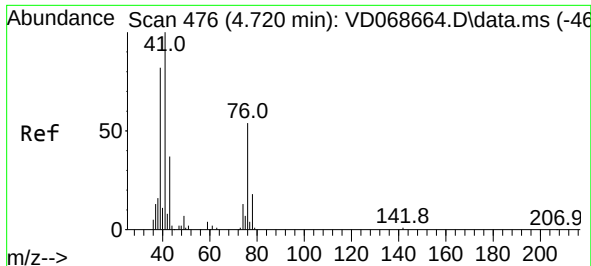
Tgt Ion: 56 Resp: 75
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#



#16
Acetone
Concen: 7.15 ug/l
RT: 4.168 min Scan# 382
Delta R.T. 0.006 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 43 Resp: 5780
Ion Ratio Lower Upper
43 100
58 25.6 28.0 42.0#





#18

Methyl Acetate

Concen: 7.11 ug/l

RT: 4.962 min Scan# 517

Delta R.T. 0.241 min

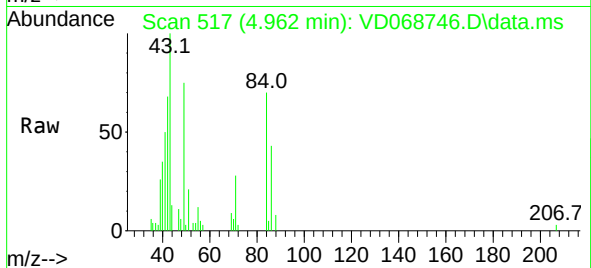
Lab File: VD068746.D

Acq: 31 Mar 2021 19:54

Instrument :

MSVOA_D

ClientSampled :

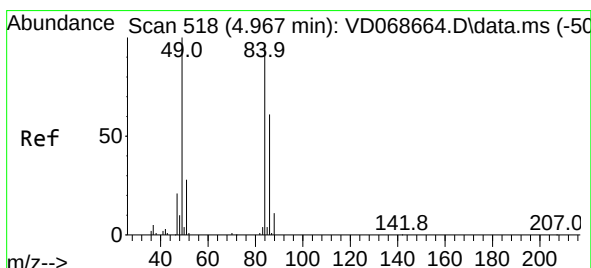
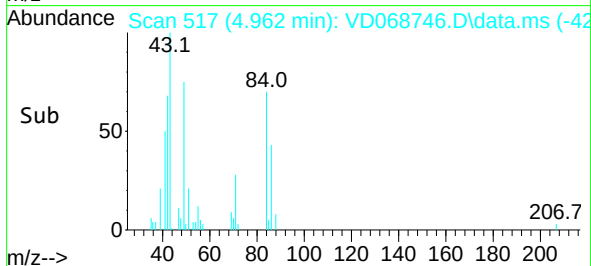
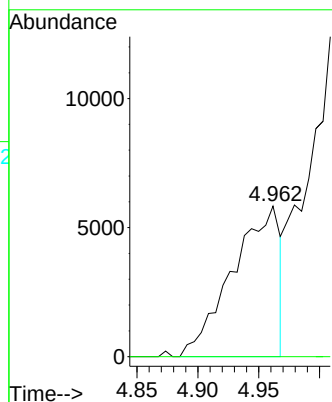


Tgt Ion: 43 Resp: 15808

Ion Ratio Lower Upper

43 100

74 0.0 25.4 38.2#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.968 min Scan# 518

Delta R.T. 0.001 min

Lab File: VD068746.D

Acq: 31 Mar 2021 19:54

Tgt Ion: 84 Resp: 14412

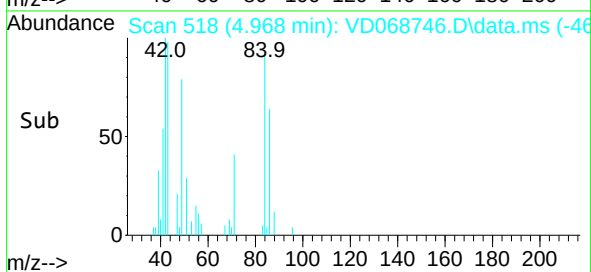
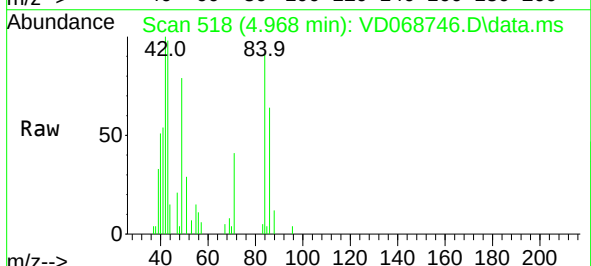
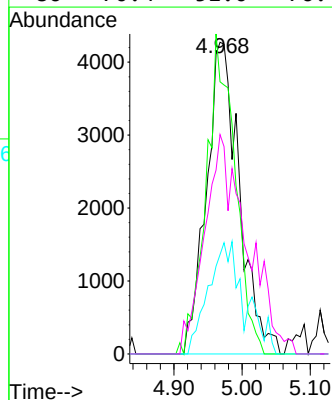
Ion Ratio Lower Upper

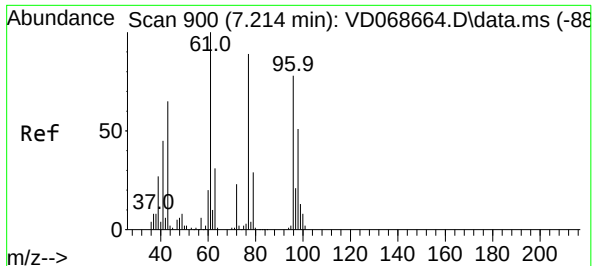
84 100

49 87.4 83.4 125.0

51 31.9 23.4 35.2

86 70.4 51.0 76.4

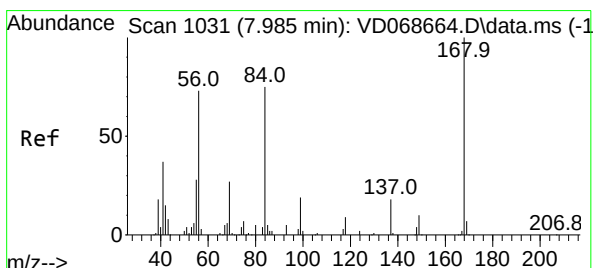
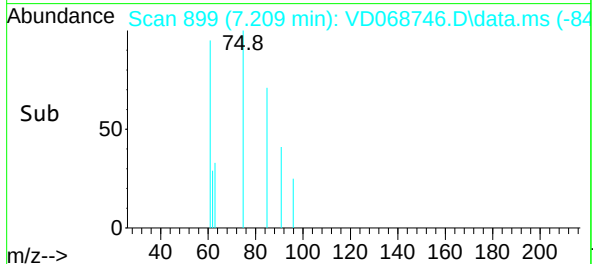
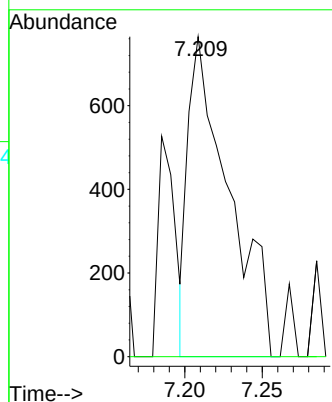
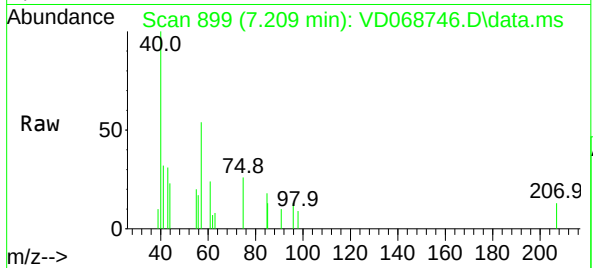




#25
2-Butanone
Concen: 1.04 ug/l
RT: 7.209 min Scan# 899
Delta R.T. -0.006 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

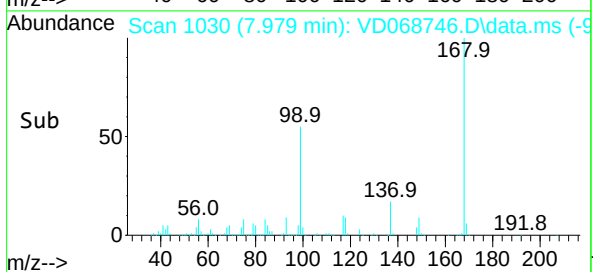
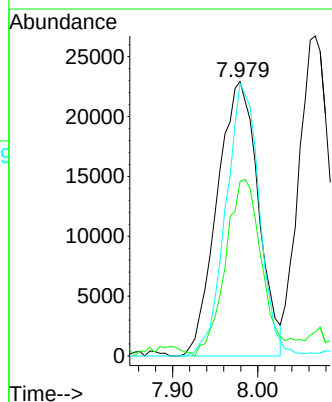
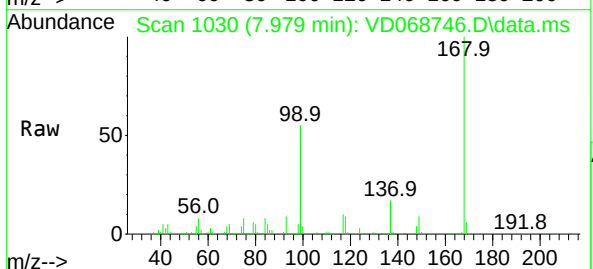
Instrument :
MSVOA_D
ClientSampled :

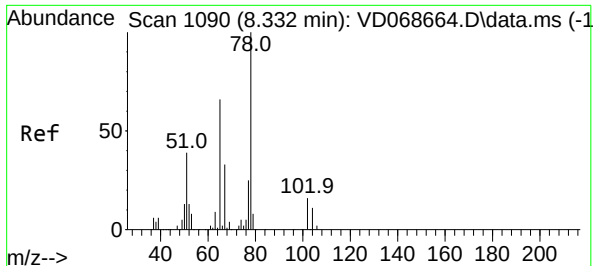
Tgt Ion: 43 Resp: 1396
Ion Ratio Lower Upper
43 100
72 0.0 28.6 43.0#



#31
Cyclohexane
Concen: 7.14 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 56 Resp: 76802
Ion Ratio Lower Upper
56 100
69 61.4 30.0 45.0#
84 99.2 82.0 123.0

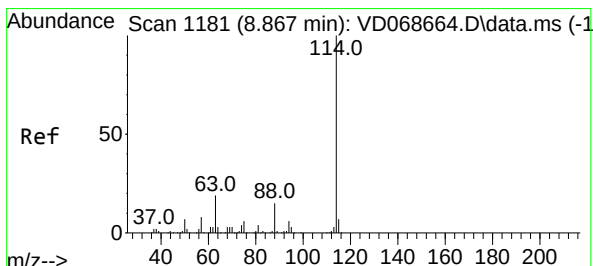
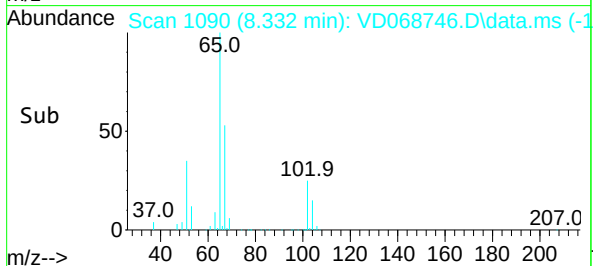
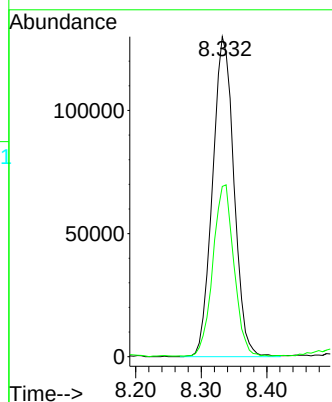
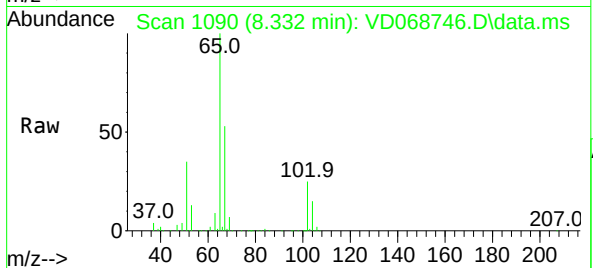




#33
1,2-Dichloroethane-d4
Concen: 44.17 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

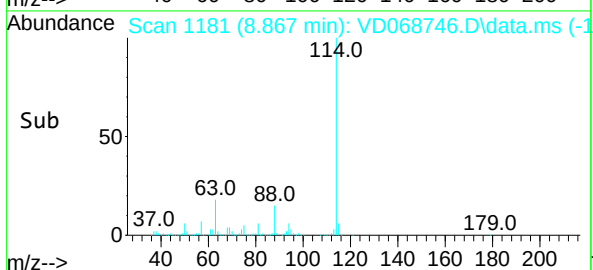
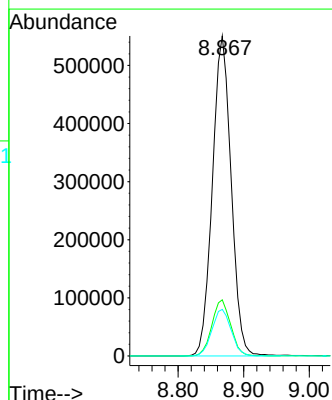
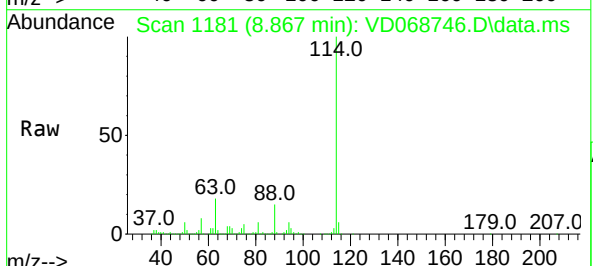
Instrument :
MSVOA_D
ClientSampled :

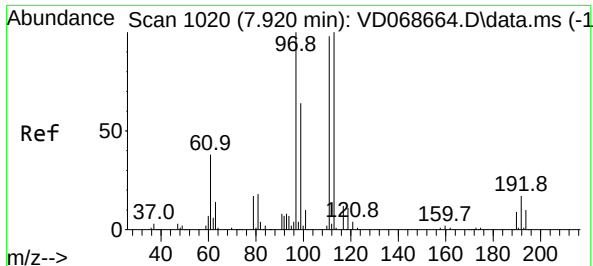
Tgt Ion: 65 Resp: 294499
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.0



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 114 Resp: 1092416
Ion Ratio Lower Upper
114 100
63 17.5 0.0 38.2
88 14.6 0.0 29.4





#35

Dibromofluoromethane

Concen: 48.92 ug/l

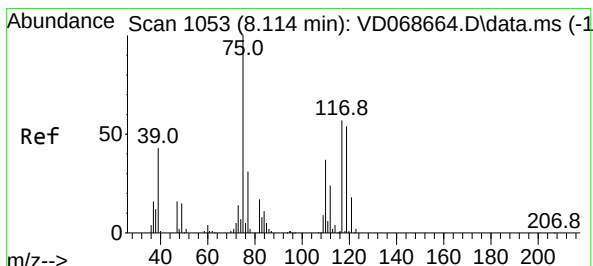
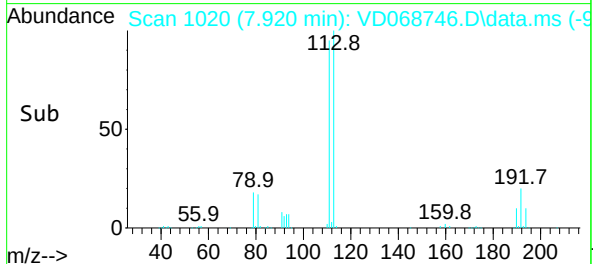
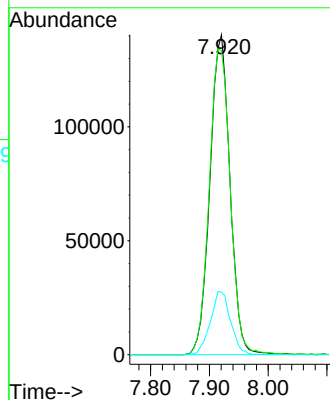
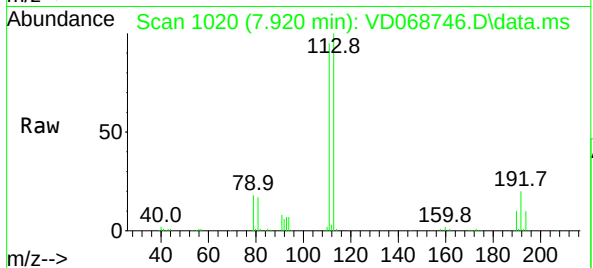
RT: 7.920 min Scan# 1020

Delta R.T. 0.000 min

Lab File: VD068746.D

Acq: 31 Mar 2021 19:54

Tgt Ion:	113	Resp:	332492
Ion	Ratio	Lower	Upper
113	100		
111	100.3	82.5	123.7
192	19.9	15.1	22.7



#36

1,1-Dichloropropene

Concen: 4.96 ug/l

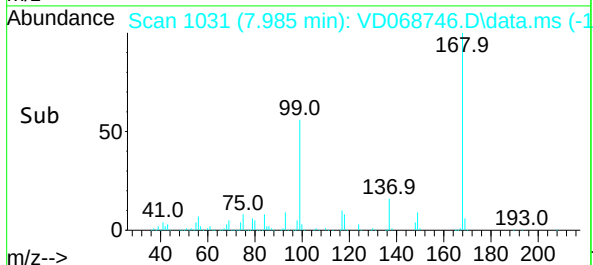
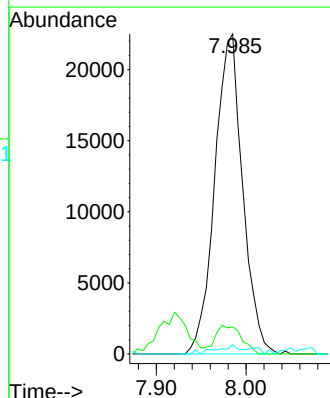
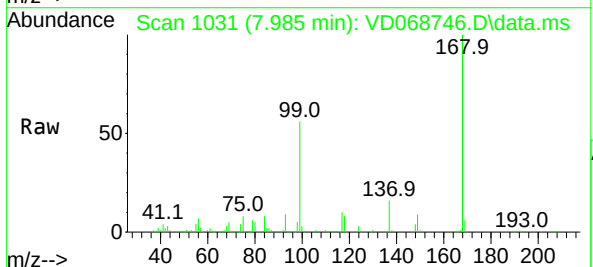
RT: 7.985 min Scan# 1031

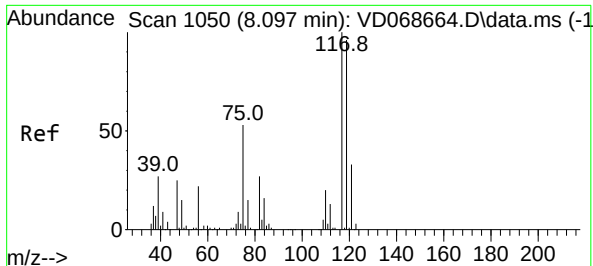
Delta R.T. -0.129 min

Lab File: VD068746.D

Acq: 31 Mar 2021 19:54

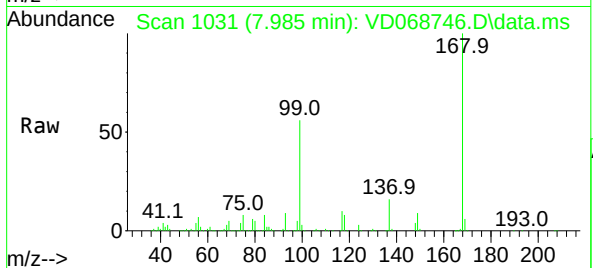
Tgt Ion:	75	Resp:	48437
Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.1	54.4#
77	2.3	24.7	37.1#



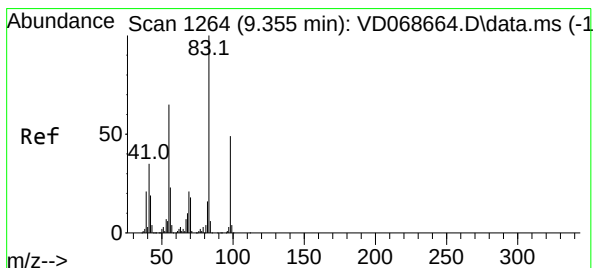
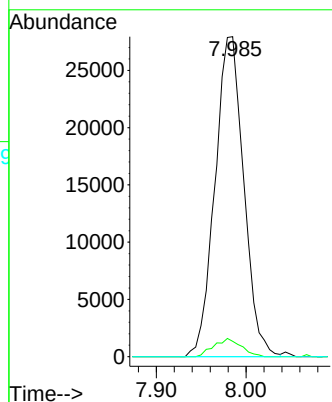
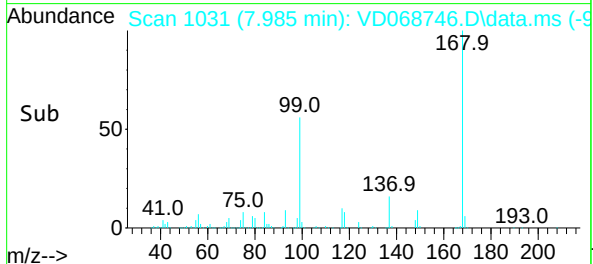


#38
Carbon Tetrachloride
Concen: 6.39 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.112 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

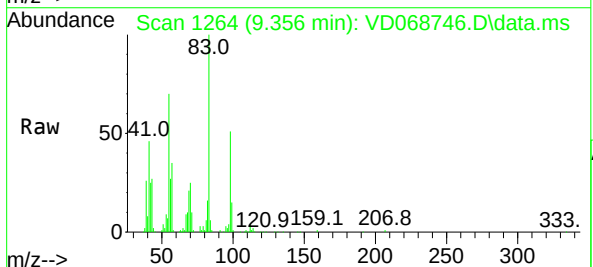
Instrument :
MSVOA_D
ClientSampled :



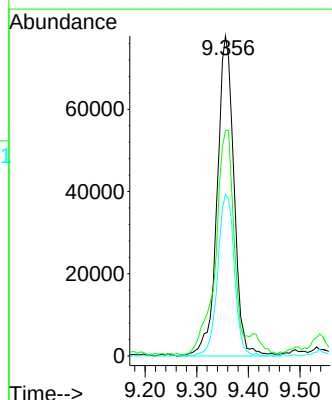
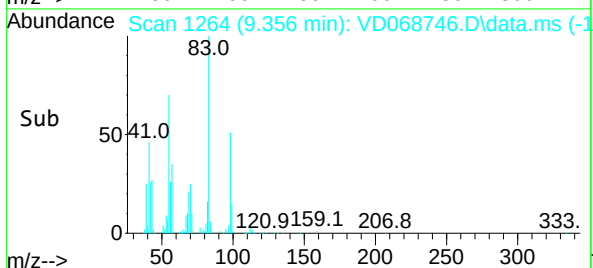
Tgt Ion:117 Resp: 62234
Ion Ratio Lower Upper
117 100
119 4.8 76.6 115.0#
121 0.0 26.1 39.1#

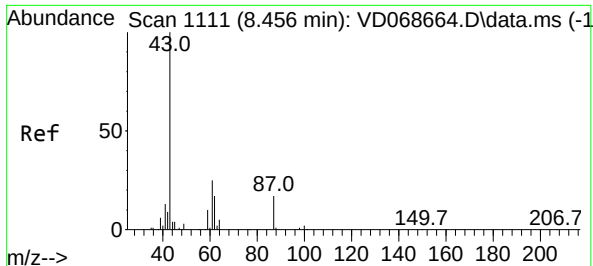


#39
Methylcyclohexane
Concen: 14.68 ug/l
RT: 9.356 min Scan# 1264
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54



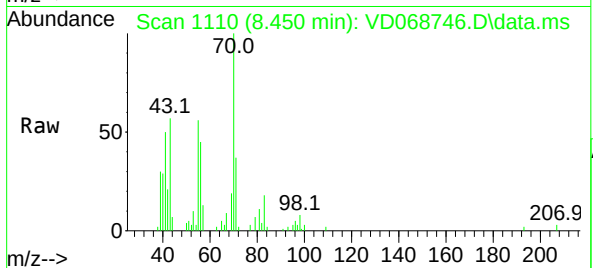
Tgt Ion: 83 Resp: 176849
Ion Ratio Lower Upper
83 100
55 70.0 51.7 77.5
98 50.5 38.8 58.2



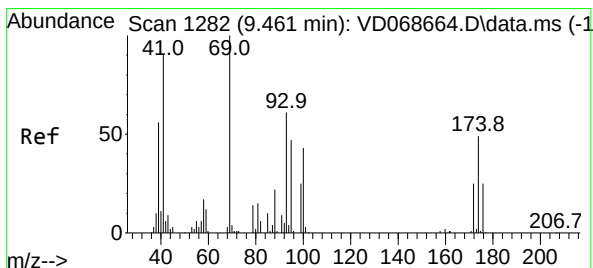
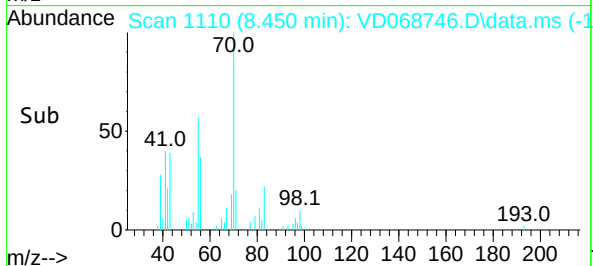
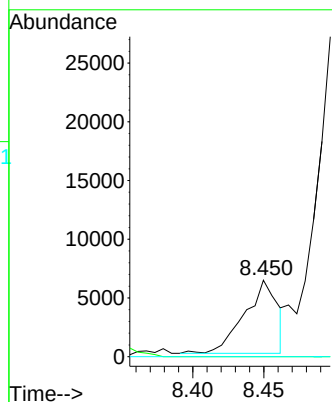


#43
Isopropyl Acetate
Concen: 1.70 ug/l
RT: 8.450 min Scan# 1110
Delta R.T. -0.006 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Instrument :
MSVOA_D
ClientSampleId :

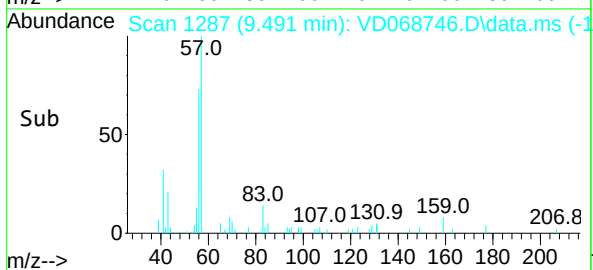
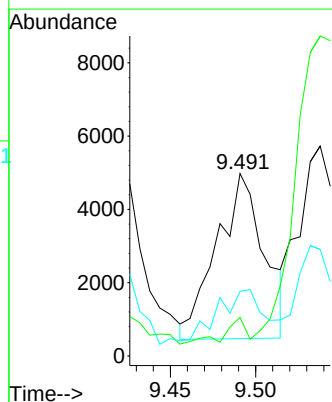
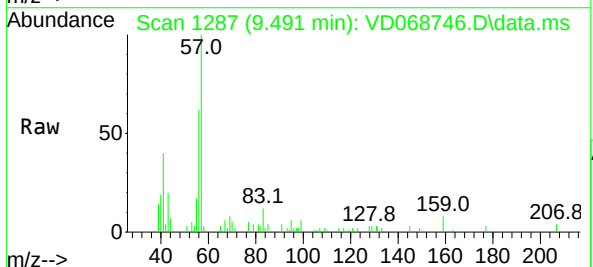


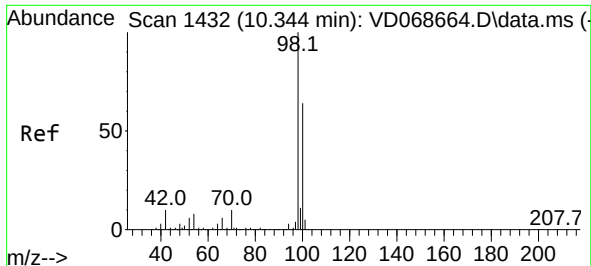
Tgt Ion: 43 Resp: 10030
Ion Ratio Lower Upper
43 100
61 0.0 29.5 44.3#
87 0.0 13.5 20.3#



#48
Methyl methacrylate
Concen: 2.90 ug/l
RT: 9.491 min Scan# 1287
Delta R.T. 0.030 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 41 Resp: 8670
Ion Ratio Lower Upper
41 100
69 0.0 83.0 124.6#
39 28.1 47.0 70.6#

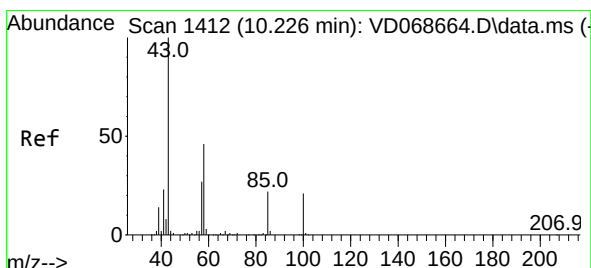
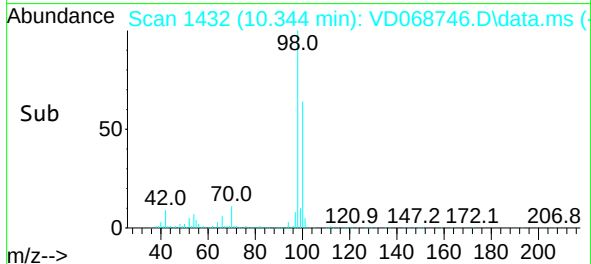
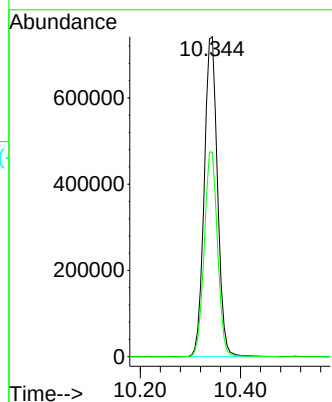
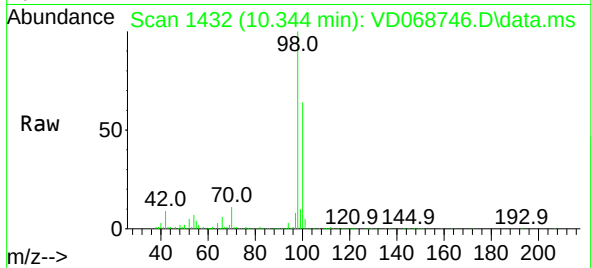




#50
Toluene-d8
Concen: 52.05 ug/l
RT: 10.344 min Scan# 1432
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

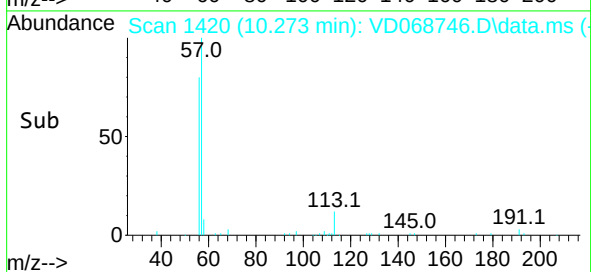
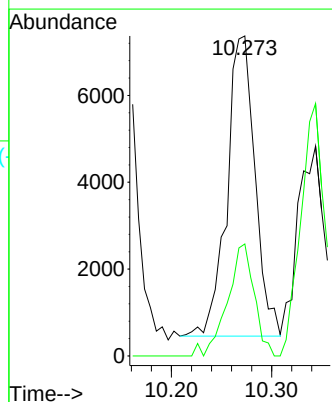
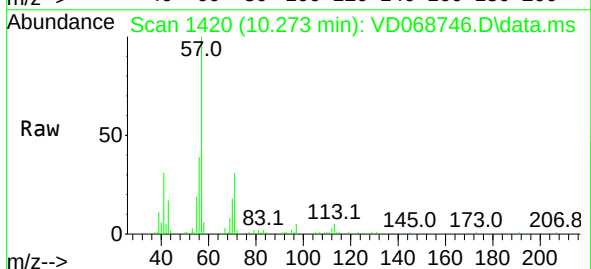
Instrument :
MSVOA_D
ClientSampled :

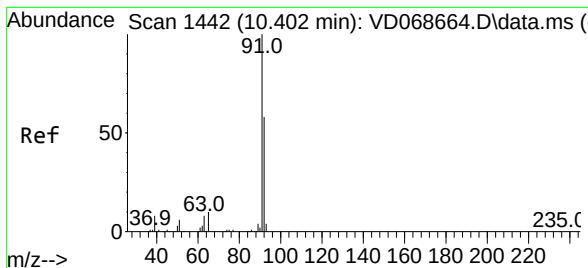
Tgt Ion: 98 Resp: 1363969
Ion Ratio Lower Upper
98 100
100 64.4 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 4.36 ug/l
RT: 10.273 min Scan# 1420
Delta R.T. 0.047 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 43 Resp: 13421
Ion Ratio Lower Upper
43 100
58 35.5 37.3 55.9#

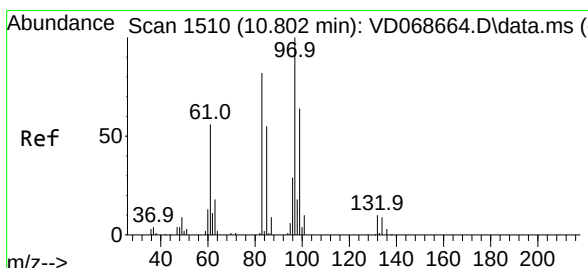
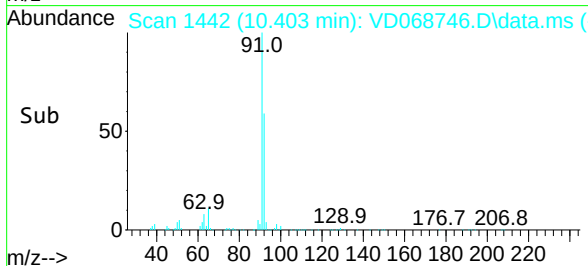
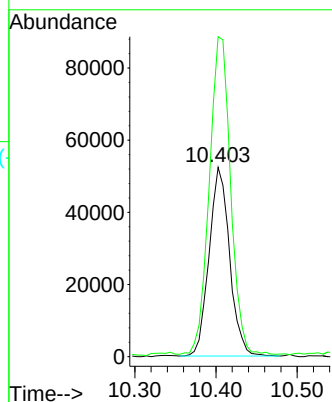
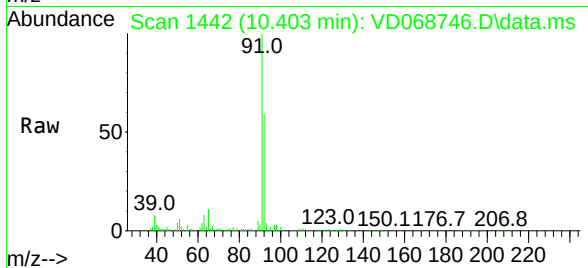




#52
Toluene
Concen: 5.09 ug/l
RT: 10.403 min Scan# 1442
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

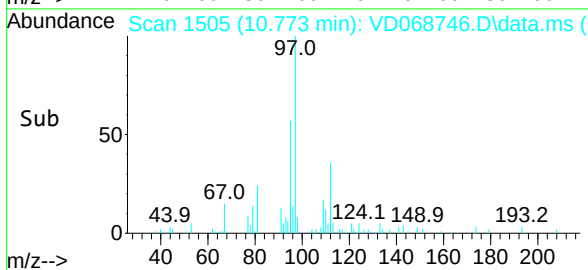
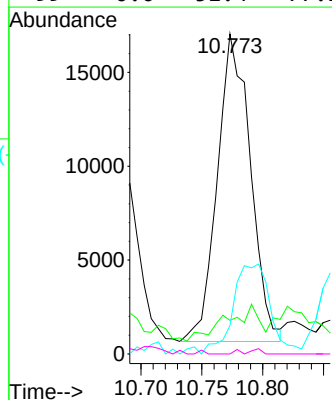
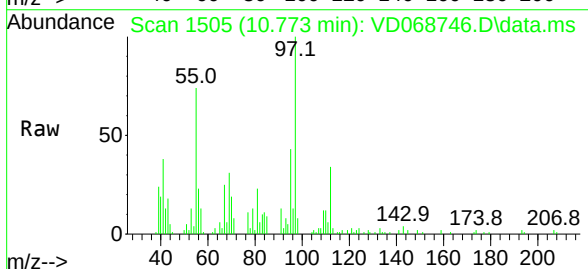
Instrument :
MSVOA_D
ClientSampled :

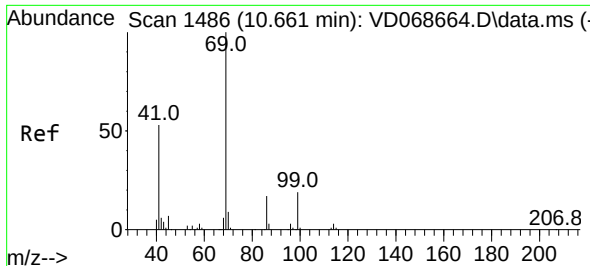
Tgt Ion: 92 Resp: 91683
Ion Ratio Lower Upper
92 100
91 174.5 139.1 208.7



#55
1,1,2-Trichloroethane
Concen: 5.68 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.029 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 97 Resp: 30970
Ion Ratio Lower Upper
97 100
83 5.7 65.7 98.5#
85 9.2 44.3 66.5#
99 0.0 51.4 77.2#

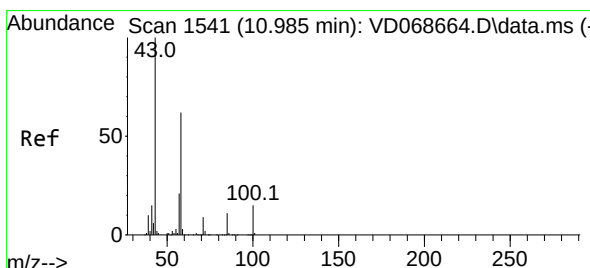
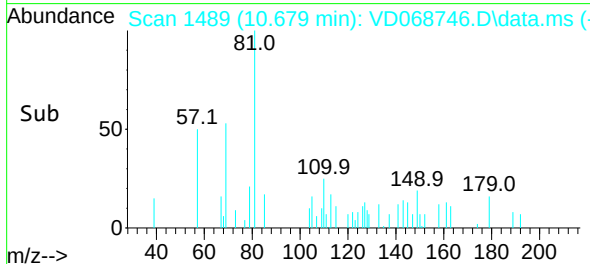
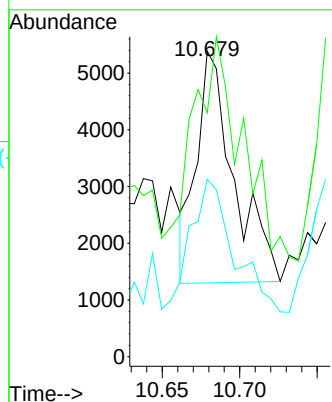
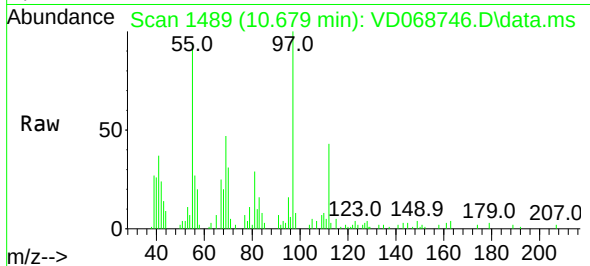




#56
Ethyl methacrylate
Concen: 1.17 ug/l
RT: 10.679 min Scan# 1489
Delta R.T. 0.018 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

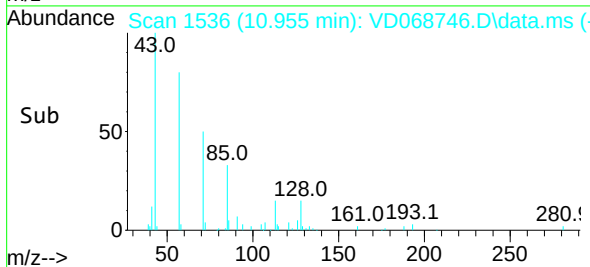
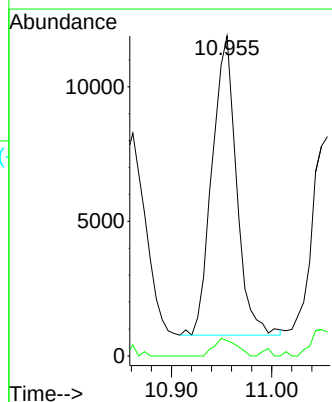
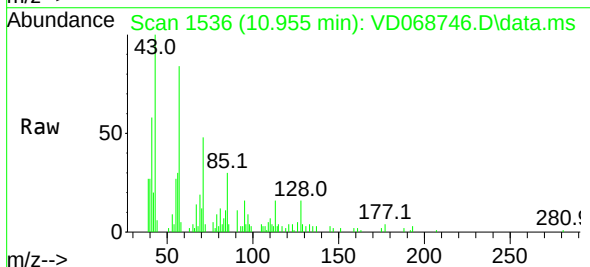
Instrument :
MSVOA_D
ClientSampled :

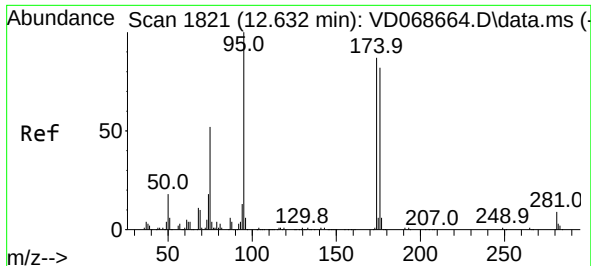
Tgt Ion: 69 Resp: 6859
Ion Ratio Lower Upper
69 100
41 140.2 42.2 63.4#
39 66.4 24.2 36.2#



#59
2-Hexanone
Concen: 9.13 ug/l
RT: 10.955 min Scan# 1536
Delta R.T. -0.029 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 43 Resp: 18841
Ion Ratio Lower Upper
43 100
58 5.3 31.3 93.8#

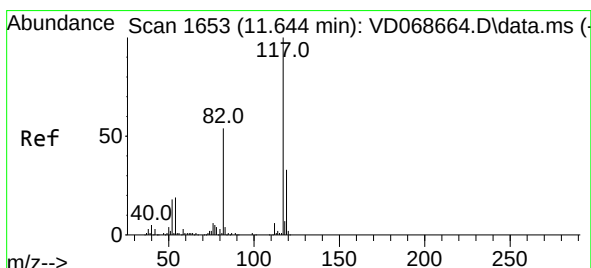
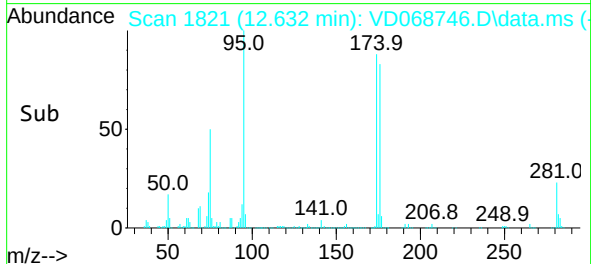
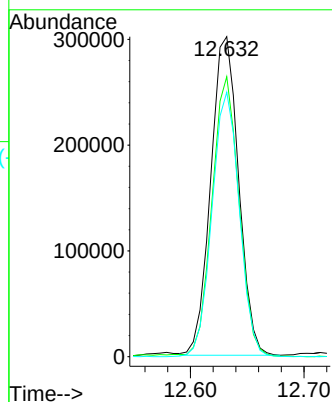
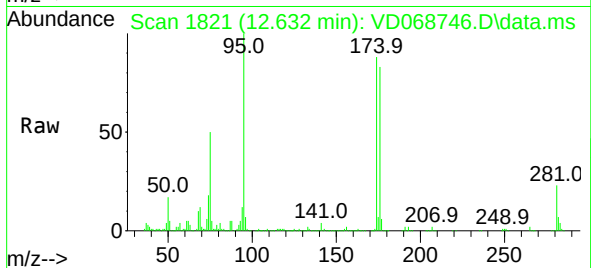




#62
4-Bromofluorobenzene
Concen: 60.55 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

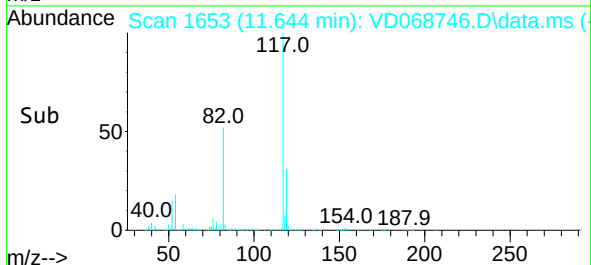
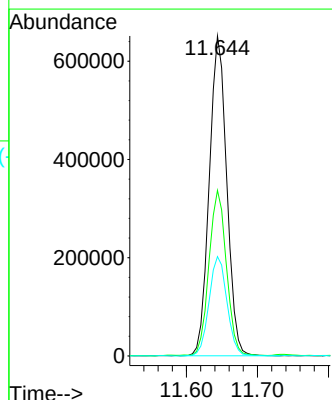
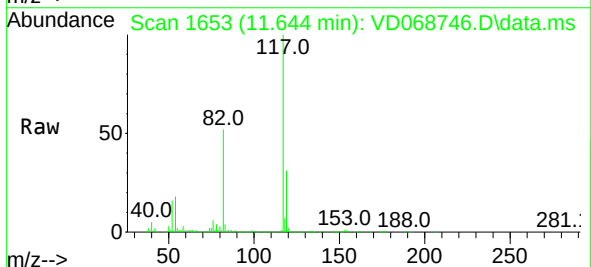
Instrument :
MSVOA_D
ClientSampleId :

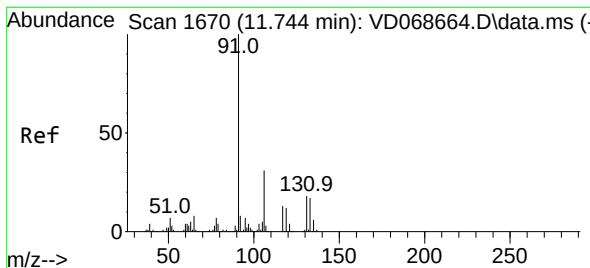
Tgt Ion: 95 Resp: 514456
Ion Ratio Lower Upper
95 100
174 85.6 0.0 168.0
176 81.2 0.0 160.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 117 Resp: 1113994
Ion Ratio Lower Upper
117 100
82 51.6 43.5 65.3
119 31.0 26.7 40.1

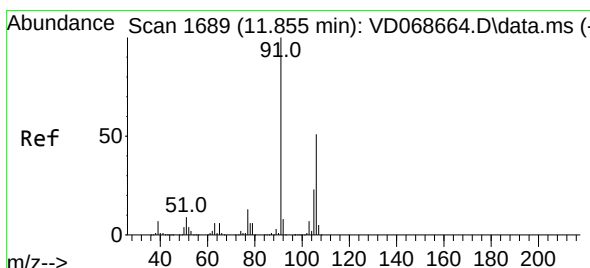
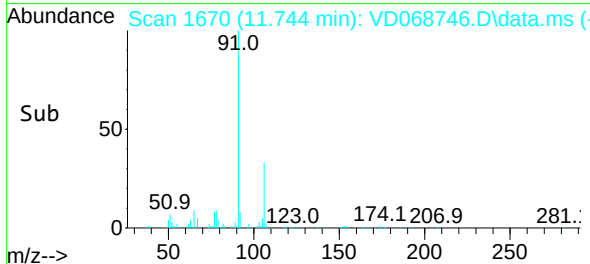
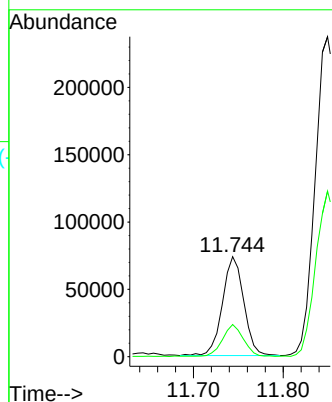
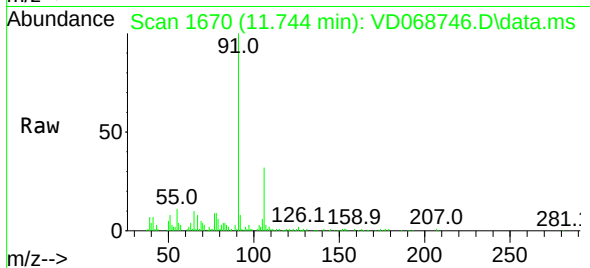




#67
Ethyl Benzene
Concen: 3.17 ug/l
RT: 11.744 min Scan# 1670
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

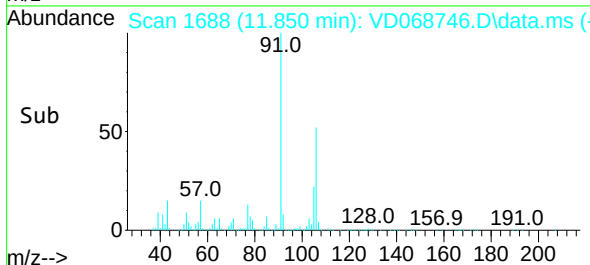
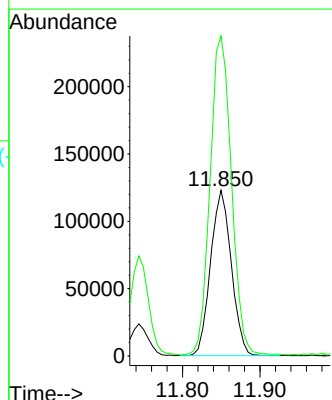
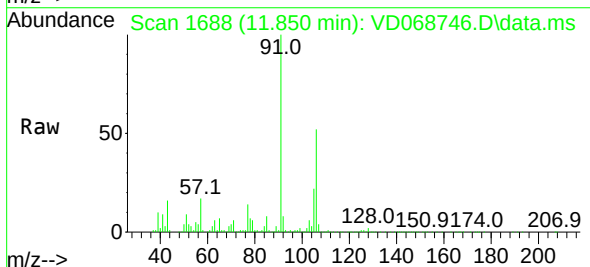
Instrument :
MSVOA_D
ClientSampled :

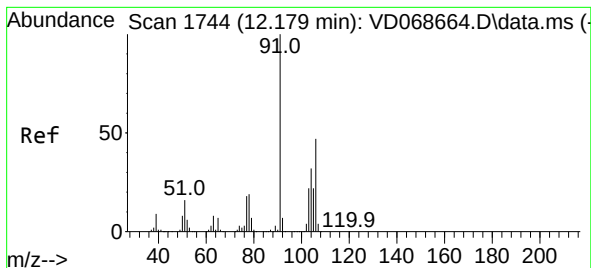
Tgt Ion: 91 Resp: 121275
Ion Ratio Lower Upper
91 100
106 32.1 25.1 37.7



#68
m/p-Xylenes
Concen: 15.31 ug/l
RT: 11.850 min Scan# 1688
Delta R.T. -0.006 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 106 Resp: 228136
Ion Ratio Lower Upper
106 100
91 198.3 158.6 238.0

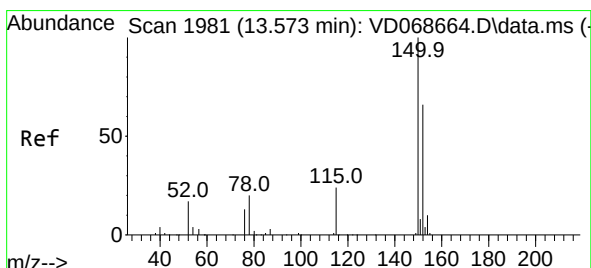
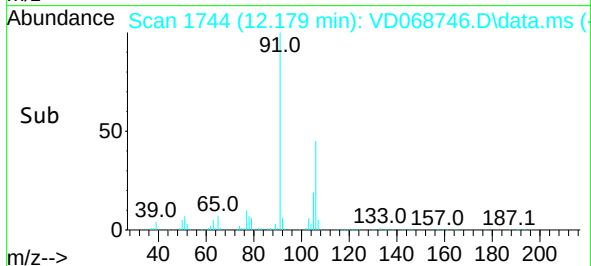
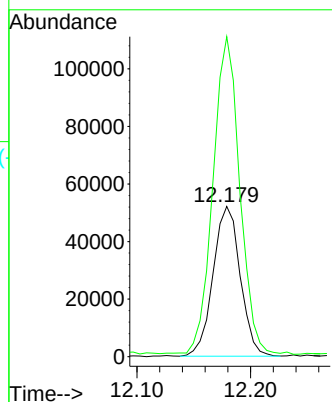
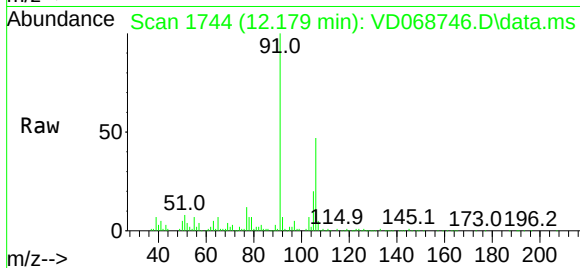




#69
o-Xylene
Concen: 6.25 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

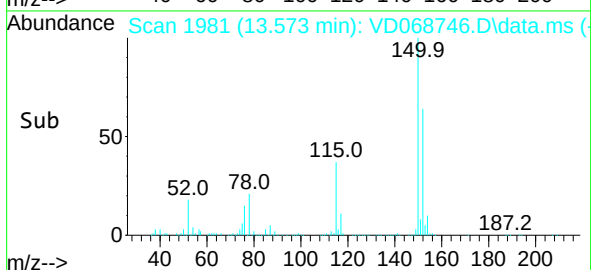
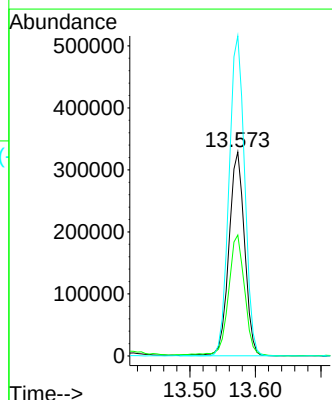
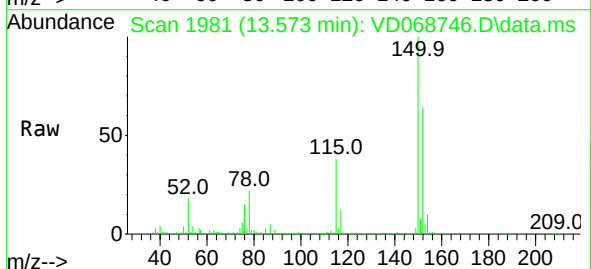
Instrument :
MSVOA_D
ClientSampled :

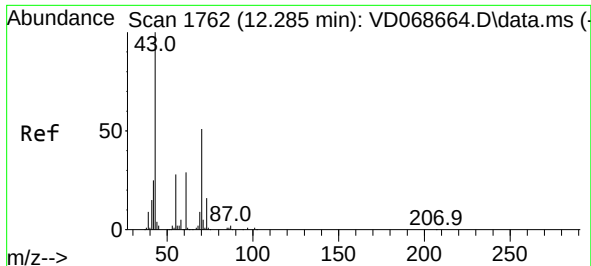
Tgt Ion:106 Resp: 86374
Ion Ratio Lower Upper
106 100
91 208.9 105.0 315.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion:152 Resp: 544842
Ion Ratio Lower Upper
152 100
115 61.9 29.3 87.8
150 156.6 0.0 347.6

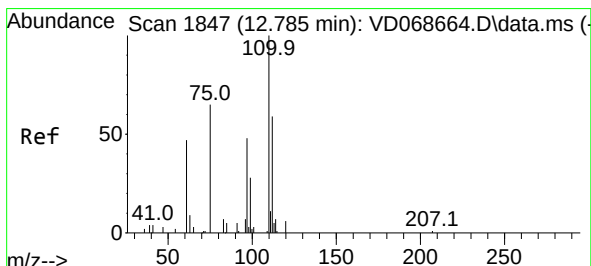
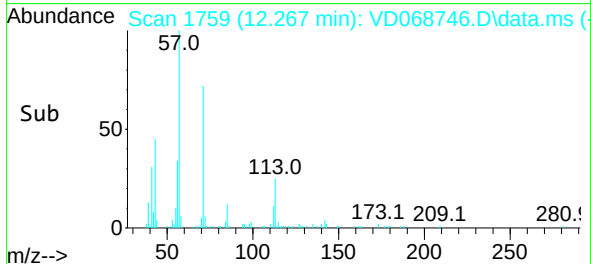
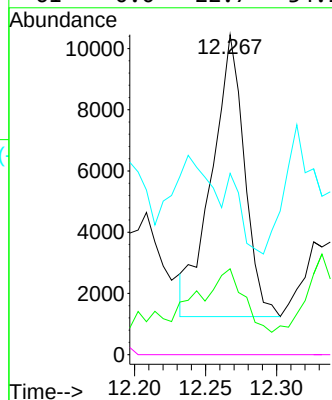
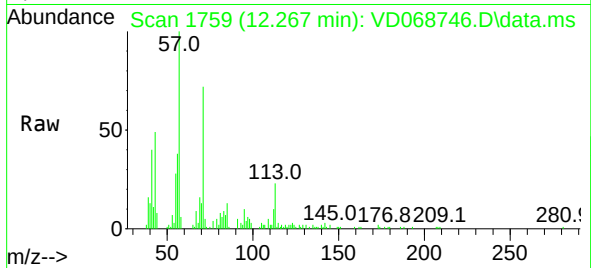




#74
N-amy1 acetate
Concen: 2.36 ug/l
RT: 12.267 min Scan# 1759
Delta R.T. -0.018 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

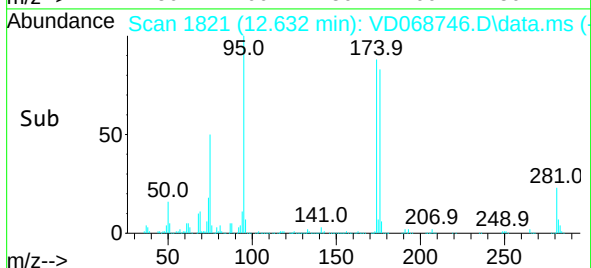
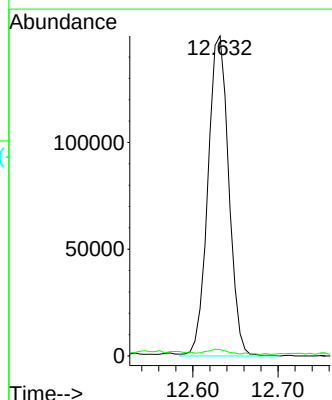
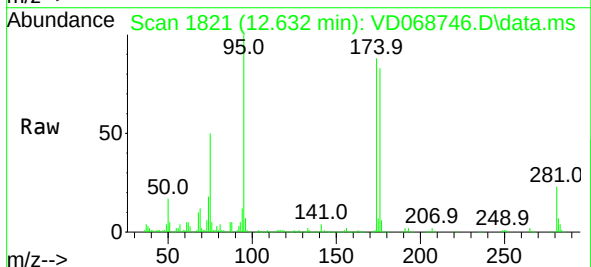
Instrument :
MSVOA_D
ClientSampled :

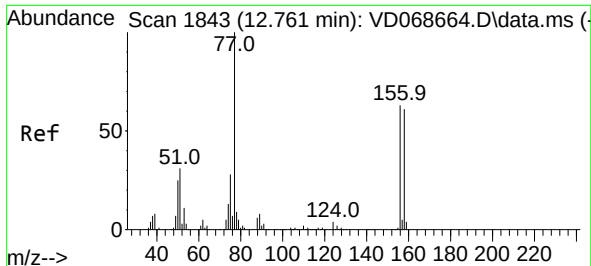
Tgt Ion: 43 Resp: 14737
Ion Ratio Lower Upper
43 100
70 30.5 41.9 62.9#
55 0.0 22.8 34.2#
61 0.0 22.7 34.1#



#76
1,2,3-Trichloropropane
Concen: 56.17 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.153 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 75 Resp: 254725
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#

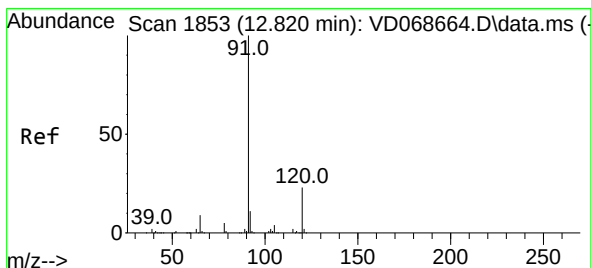
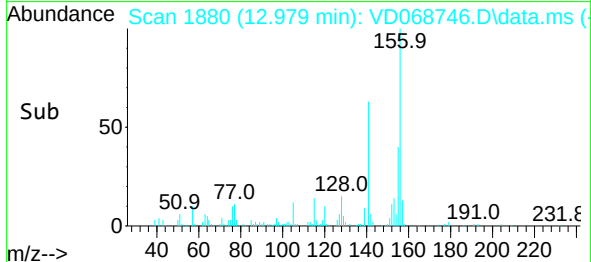
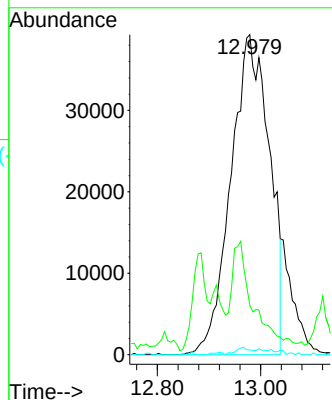
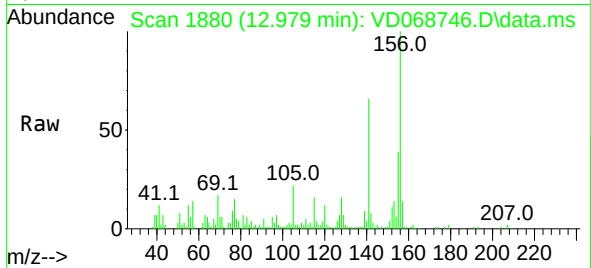




#77
Bromobenzene
Concen: 23.15 ug/l
RT: 12.979 min Scan# 1880
Delta R.T. 0.218 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

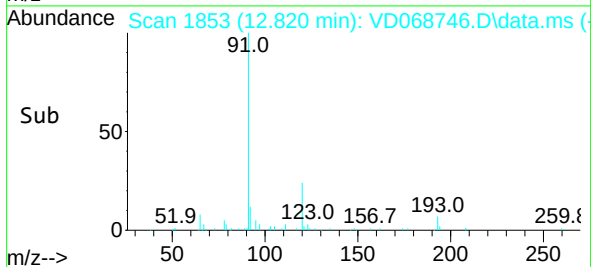
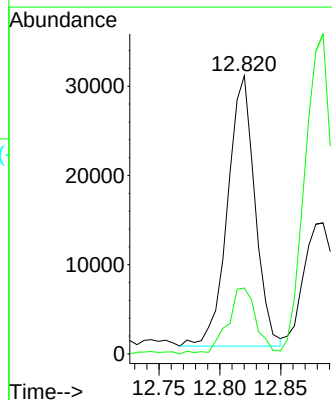
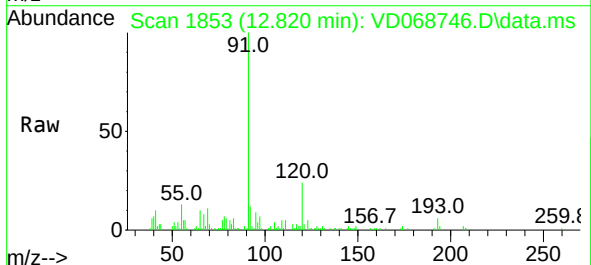
Instrument :
MSVOA_D
ClientSampleId :

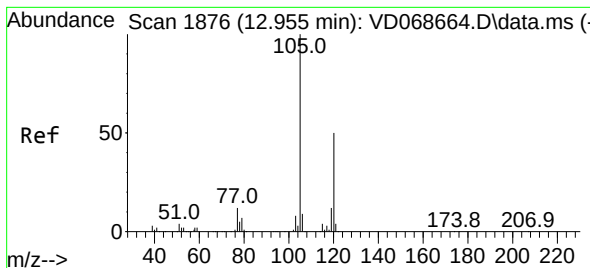
Tgt Ion:156 Resp: 203255
Ion Ratio Lower Upper
156 100
77 14.2 88.9 266.8#
158 0.8 47.7 143.1#



#78
n-propylbenzene
Concen: 1.06 ug/l
RT: 12.820 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 91 Resp: 47320
Ion Ratio Lower Upper
91 100
120 25.6 11.4 34.2

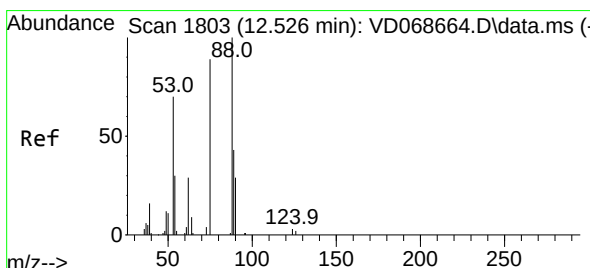
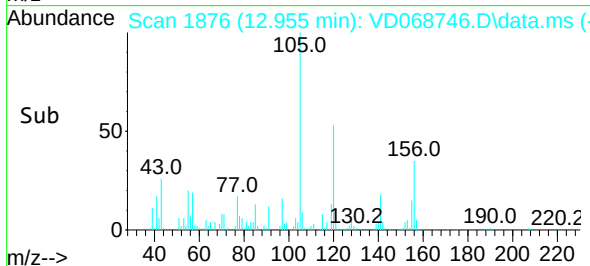
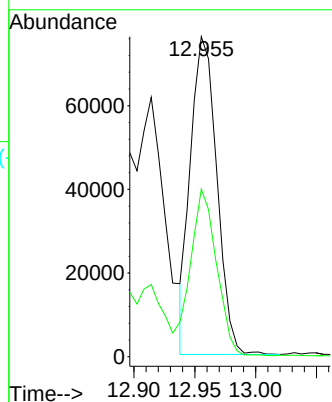
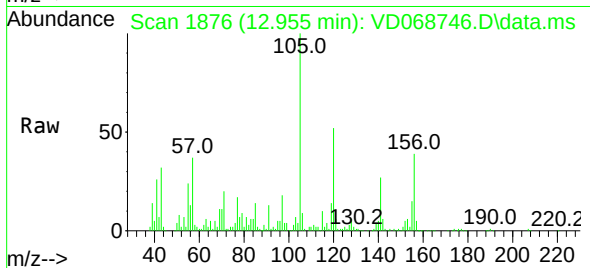




#80
1,3,5-Trimethylbenzene
Concen: 3.77 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

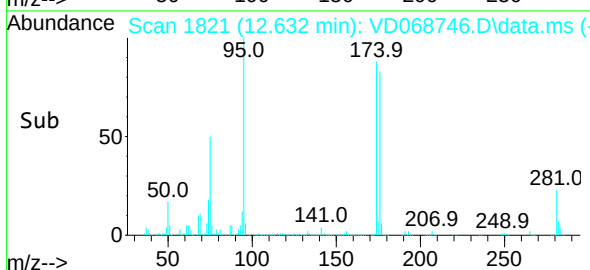
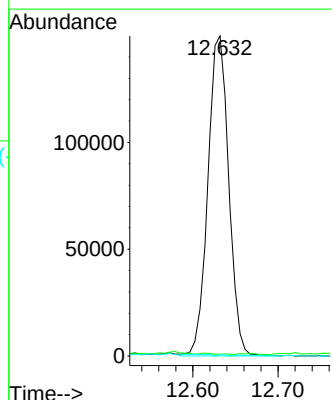
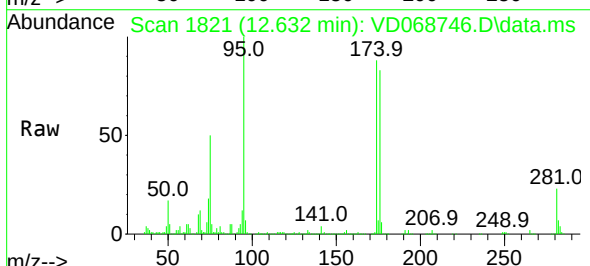
Instrument :
MSVOA_D
ClientSampleId :

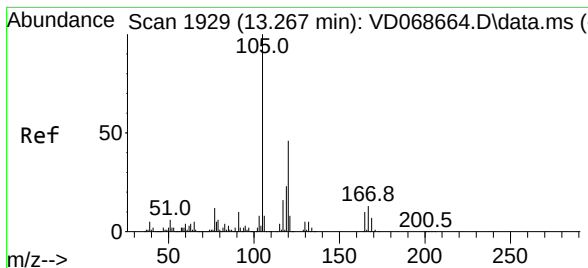
Tgt Ion:105 Resp: 114042
Ion Ratio Lower Upper
105 100
120 52.8 24.9 74.7



#81
trans-1,4-Dichloro-2-butene
Concen: 127.80 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

Tgt Ion: 75 Resp: 254725
Ion Ratio Lower Upper
75 100
53 0.3 66.8 100.2#
89 0.0 36.6 54.8#

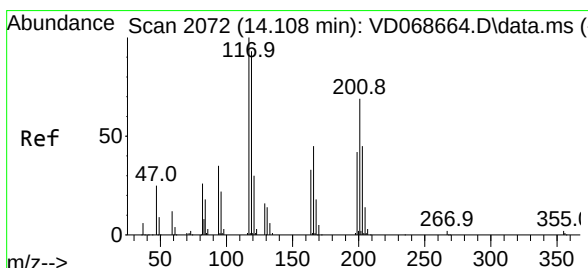
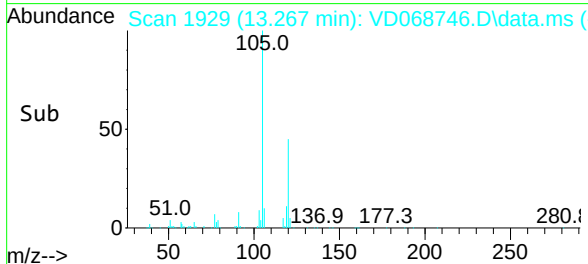
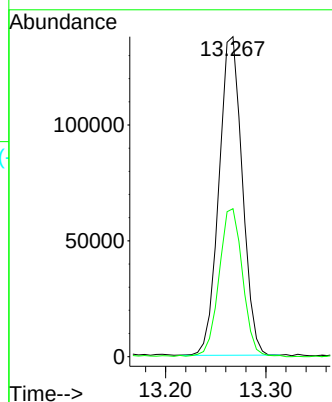
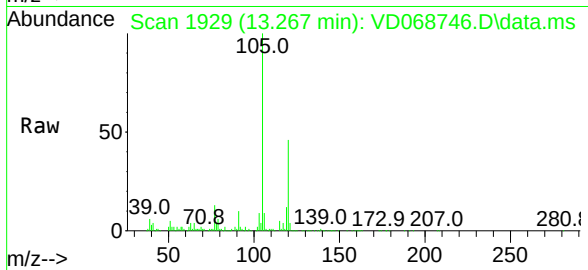




#84
1,2,4-Trimethylbenzene
Concen: 7.09 ug/l
RT: 13.267 min Scan# 1929
Delta R.T. 0.000 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

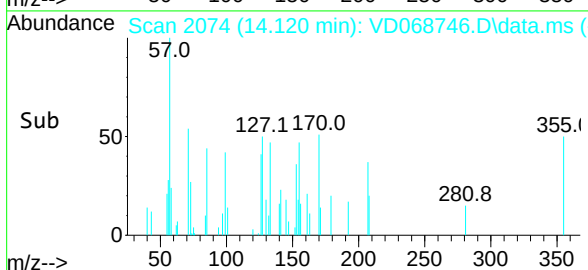
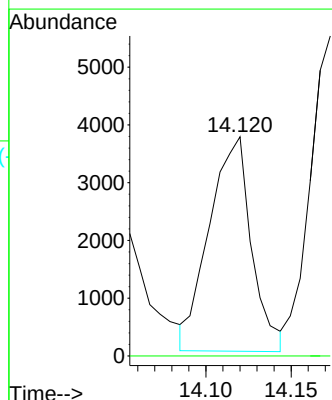
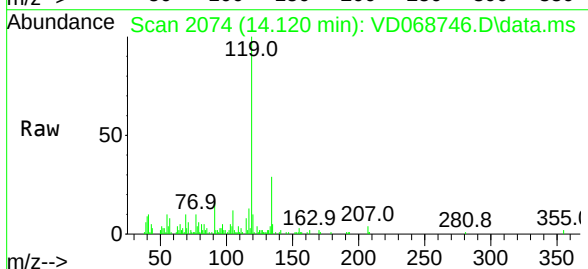
Instrument :
MSVOA_D
ClientSampled :

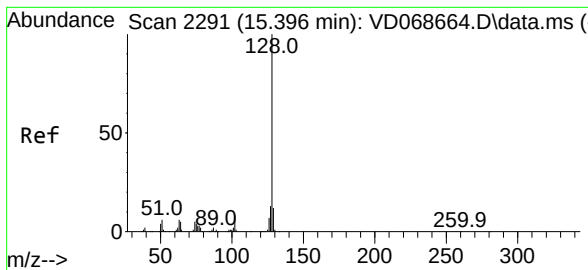
Tgt Ion:105 Resp: 221822
Ion Ratio Lower Upper
105 100
120 47.2 22.6 67.7



#90
Hexachloroethane
Concen: 1.04 ug/l
RT: 14.120 min Scan# 2074
Delta R.T. 0.012 min
Lab File: VD068746.D
Acq: 31 Mar 2021 19:54

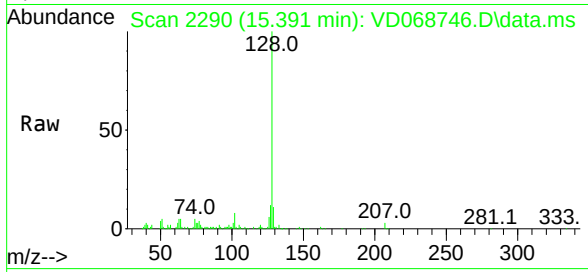
Tgt Ion:117 Resp: 6381
Ion Ratio Lower Upper
117 100
201 0.0 35.4 106.2#





#95
 Naphthalene
 Concen: 9.56 ug/l
 RT: 15.391 min Scan# 2290
 Delta R.T. -0.006 min
 Lab File: VD068746.D
 Acq: 31 Mar 2021 19:54

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	128	Resp:	161736
Ion Ratio	Lower	Upper	
128	100		
127	13.7	10.2	15.4
129	12.3	8.9	13.3

