

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD022521\
 Data File : VD068447.D
 Acq On : 25 Feb 2021 17:03
 Operator : VA/SY
 Sample : M1503-01
 Misc : 5.61G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Feb 26 00:29:23 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D021221S.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 12 13:30:51 2021
 Response via : Initial Calibration

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

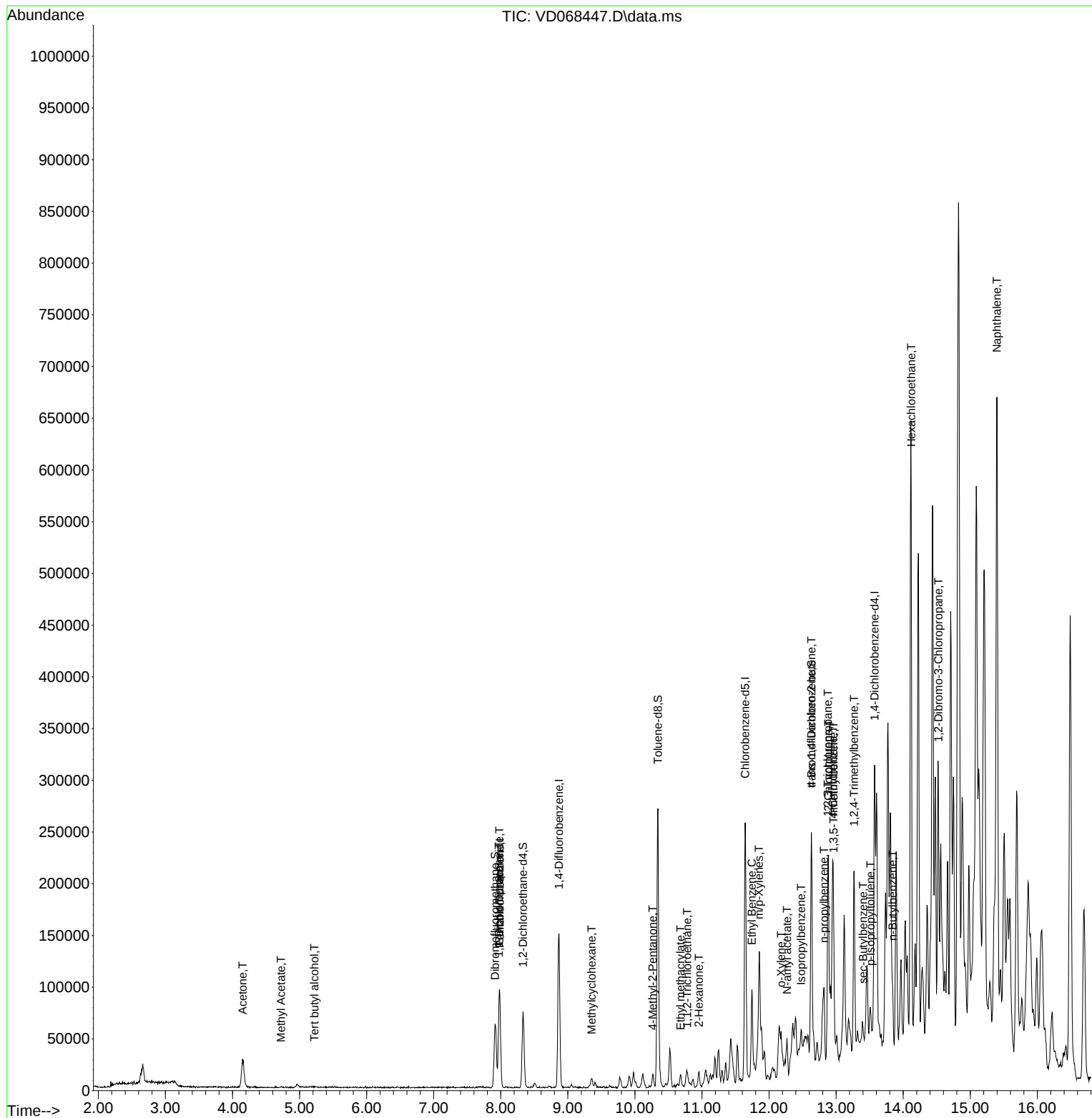
Internal Standards						
1) Pentafluorobenzene	7.985	168	73478	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	133839	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	145472	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	73210	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	56509	75.23	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 150.46%			
35) Dibromofluoromethane	7.914	113	45898	57.78	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 115.56%			
50) Toluene-d8	10.344	98	179229	54.43	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 108.86%			
62) 4-Bromofluorobenzene	12.632	95	72124	67.24	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 134.48%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.220	59	429	11.39	ug/l #	74
16) Acetone	4.150	43	46630	402.36	ug/l	98
18) Methyl Acetate	4.726	43	836	2.63	ug/l #	43
20) Methylene Chloride	4.956	84	1347	Below Cal	#	66
31) Cyclohexane	7.985	56	1583	Below Cal	#	31
36) 1,1-Dichloropropene	7.973	75	6140	5.19	ug/l #	46
38) Carbon Tetrachloride	7.979	117	7598	6.73	ug/l #	20
39) Methylcyclohexane	9.355	83	2584	1.78	ug/l #	79
51) 4-Methyl-2-Pentanone	10.267	43	1280	3.25	ug/l #	73
55) 1,1,2-Trichloroethane	10.779	97	4182	6.77	ug/l #	26
56) Ethyl methacrylate	10.679	69	1432	1.95	ug/l #	16
59) 2-Hexanone	10.955	43	5427	20.40	ug/l #	24
67) Ethyl Benzene	11.744	91	57136	11.39	ug/l	96
68) m/p-Xylenes	11.849	106	15187	8.01	ug/l	94
69) o-Xylene	12.179	106	6896	3.97	ug/l	64
73) Isopropylbenzene	12.479	105	17427	3.26	ug/l	96
74) N-amyl acetate	12.267	43	6976	7.39	ug/l #	56
76) 1,2,3-Trichloropropane	12.879	75	1151	1.65	ug/l #	100
78) n-propylbenzene	12.820	91	53301	8.33	ug/l	99
79) 2-Chlorotoluene	12.885	91	19077	5.38	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.961	105	47964	10.98	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.632	75	36112	129.93	ug/l #	13
82) 4-Chlorotoluene	12.955	91	7149	1.91	ug/l #	39
84) 1,2,4-Trimethylbenzene	13.267	105	102098	23.45	ug/l	99
85) sec-Butylbenzene	13.402	105	11908	2.25	ug/l #	43
86) p-Isopropyltoluene	13.514	119	19265	4.05	ug/l	96
89) n-Butylbenzene	13.843	91	31213	6.72	ug/l #	79
90) Hexachloroethane	14.120	117	30386	35.16	ug/l #	10
92) 1,2-Dibromo-3-Chloropr...	14.526	75	1100	8.12	ug/l #	1
95) Naphthalene	15.396	128	501946	205.71	ug/l	99

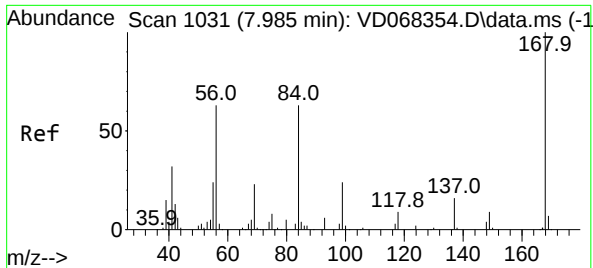
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD022521\
Data File : VD068447.D
Acq On : 25 Feb 2021 17:03
Operator : VA/SY
Sample : M1503-01
Misc : 5.61G/5.00ml/MSVOA_D/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Feb 26 00:29:23 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D021221S.M
Quant Title : SW846 8260
QLast Update : Fri Feb 12 13:30:51 2021
Response via : Initial Calibration

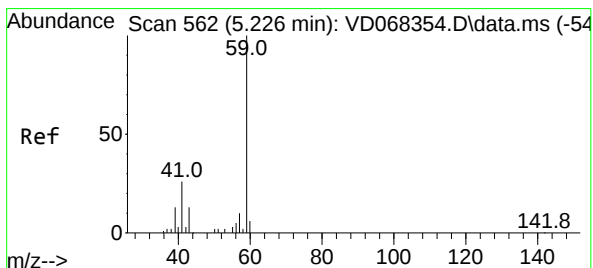
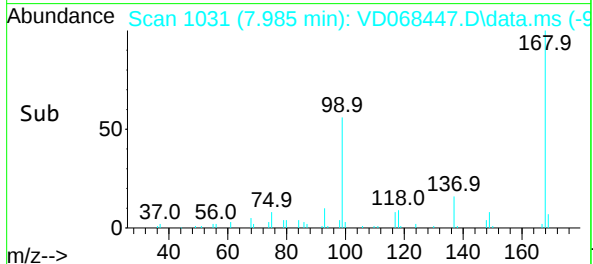
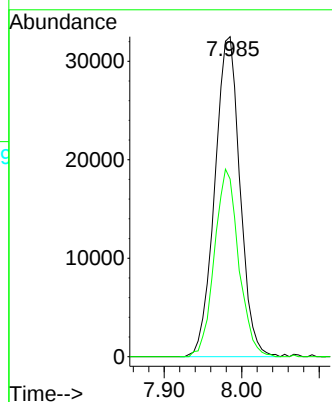
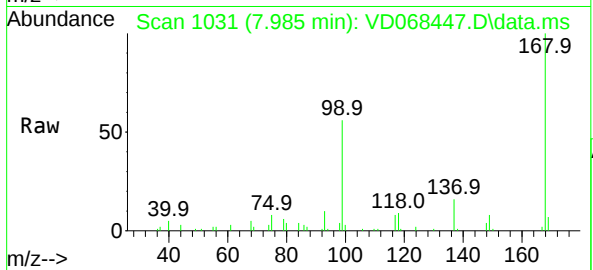




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

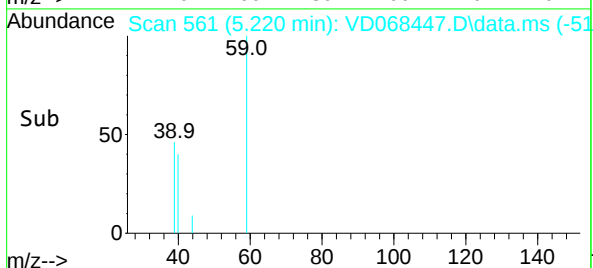
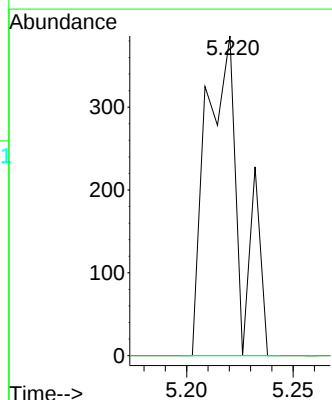
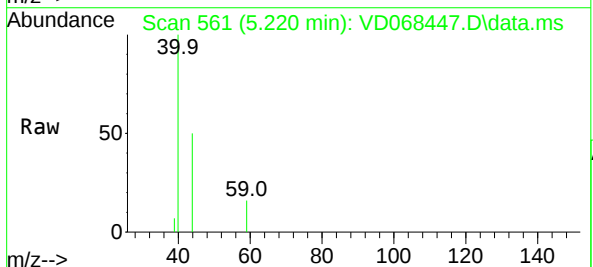
Instrument :
MSVOA_D
ClientSampled :

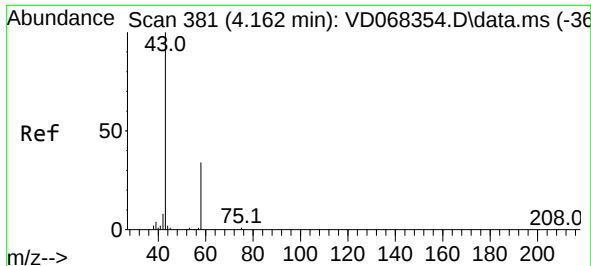
Tgt Ion:168 Resp: 73478
Ion Ratio Lower Upper
168 100
99 55.5 43.5 65.3



#11
Tert butyl alcohol
Concen: 11.39 ug/l
RT: 5.220 min Scan# 561
Delta R.T. -0.006 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

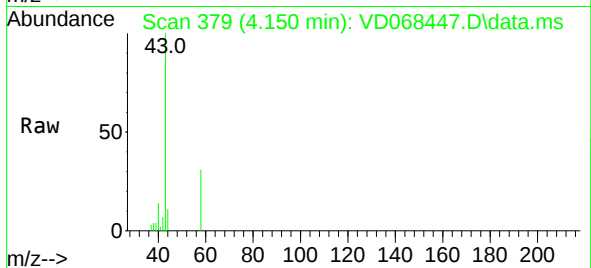
Tgt Ion: 59 Resp: 429
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



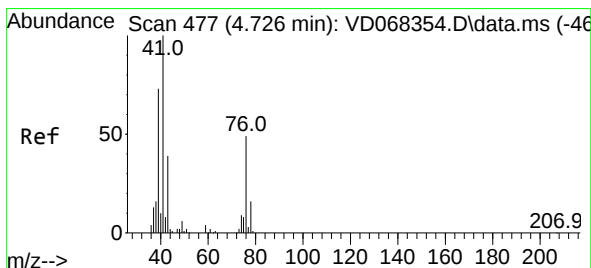
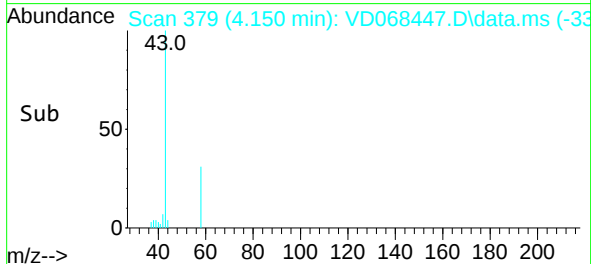
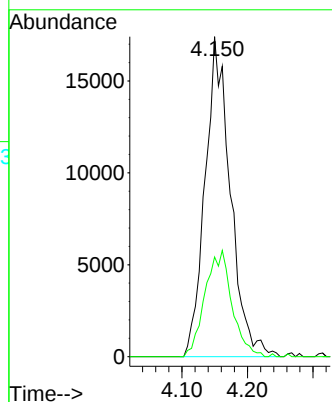


#16
Acetone
Concen: 402.36 ug/l
RT: 4.150 min Scan# 379
Delta R.T. -0.012 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Instrument :
MSVOA_D
ClientSampled :

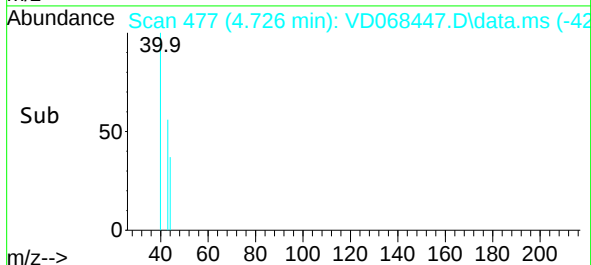
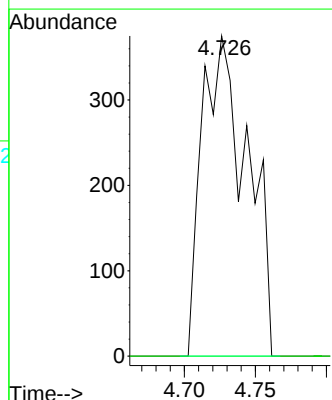
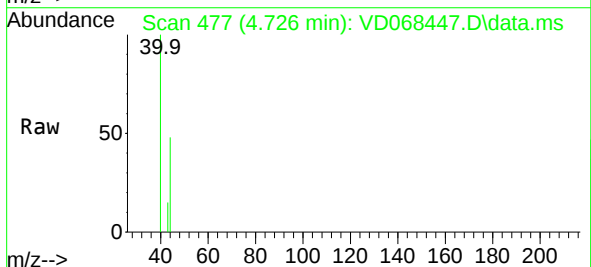


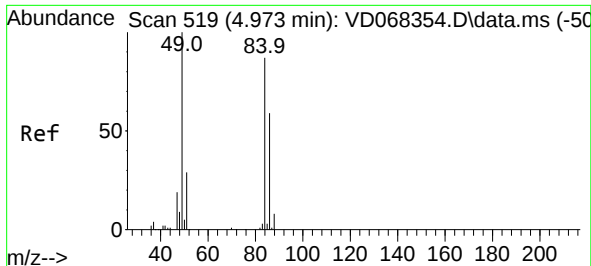
Tgt Ion: 43 Resp: 46630
Ion Ratio Lower Upper
43 100
58 31.1 24.2 36.4



#18
Methyl Acetate
Concen: 2.63 ug/l
RT: 4.726 min Scan# 477
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

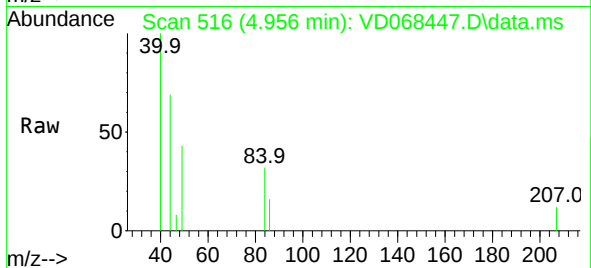
Tgt Ion: 43 Resp: 836
Ion Ratio Lower Upper
43 100
74 0.0 25.4 38.0#



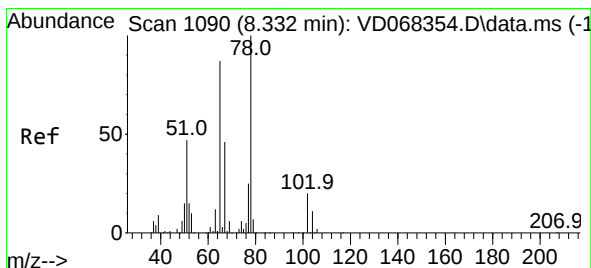
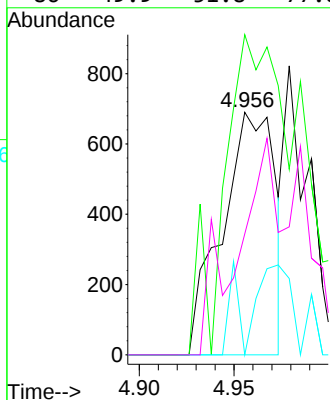
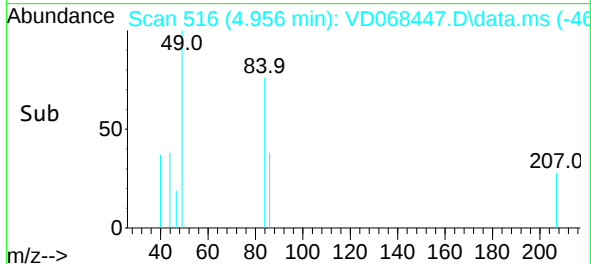


#20
Methylene Chloride
Concen: Below Cal
RT: 4.956 min Scan# 516
Delta R.T. -0.017 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

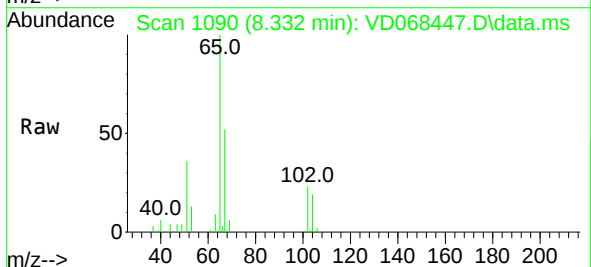
Instrument :
MSVOA_D
ClientSampled :



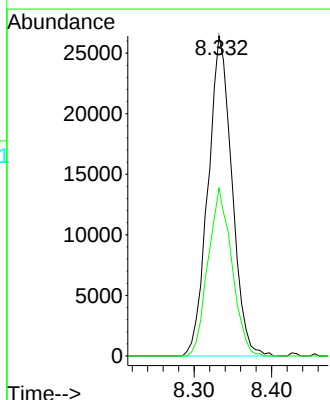
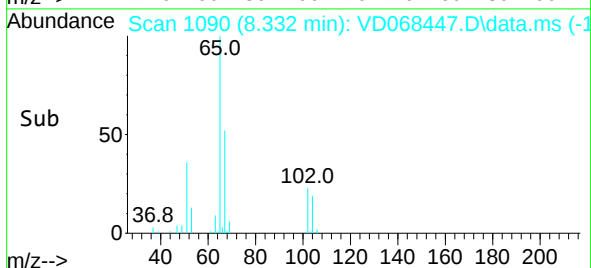
Tgt Ion: 84 Resp: 1347
Ion Ratio Lower Upper
84 100
49 132.0 77.4 116.2#
51 0.0 26.1 39.1#
86 49.9 51.8 77.8#

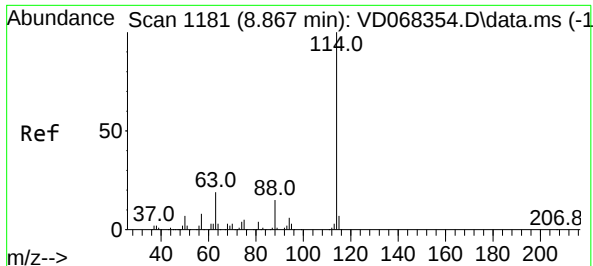


#33
1,2-Dichloroethane-d4
Concen: 75.23 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03



Tgt Ion: 65 Resp: 56509
Ion Ratio Lower Upper
65 100
67 52.0 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.867 min Scan# 1181

Delta R.T. 0.000 min

Lab File: VD068447.D

Acq: 25 Feb 2021 17:03

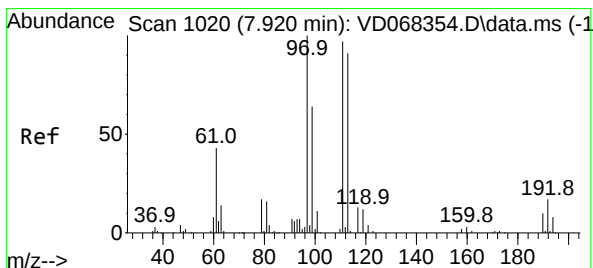
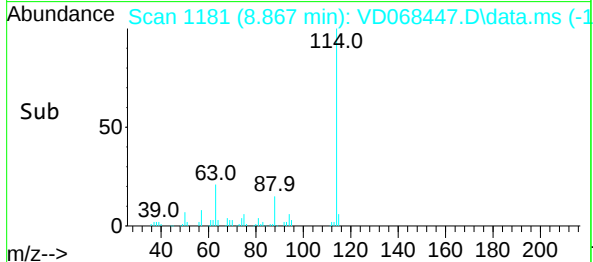
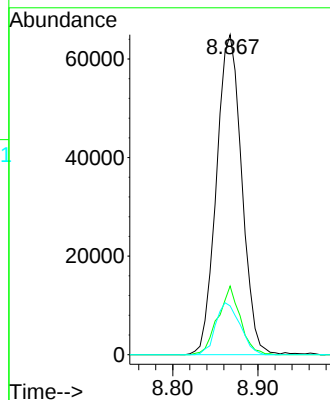
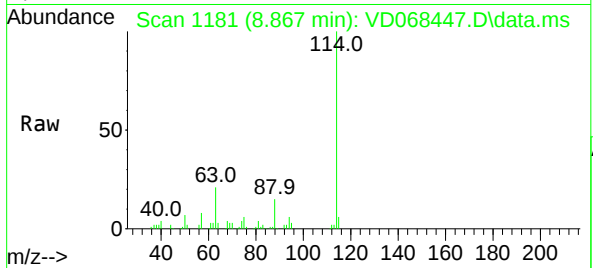
Tgt Ion:114 Resp: 133839

Ion Ratio Lower Upper

114 100

63 21.4 0.0 34.8

88 15.3 0.0 31.6



#35

Dibromofluoromethane

Concen: 57.78 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD068447.D

Acq: 25 Feb 2021 17:03

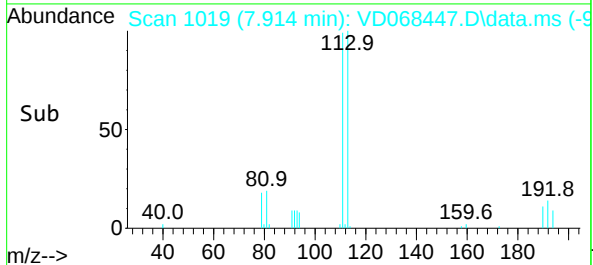
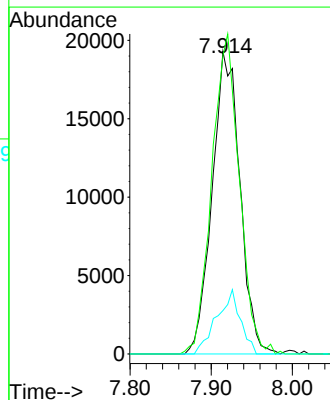
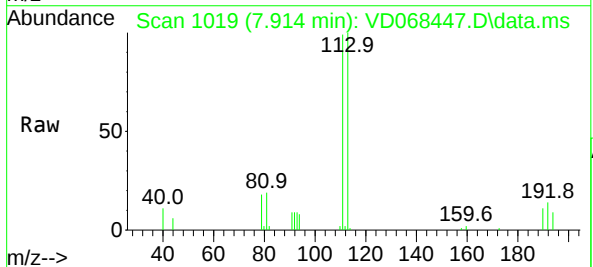
Tgt Ion:113 Resp: 45898

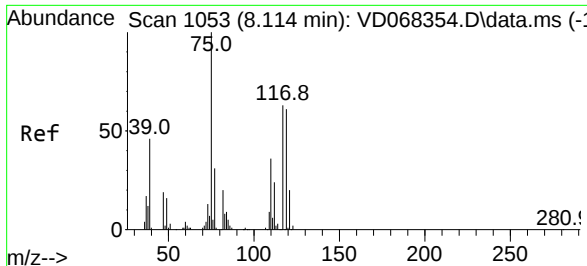
Ion Ratio Lower Upper

113 100

111 104.5 81.4 122.0

192 18.1 16.1 24.1





#36

1,1-Dichloropropene

Concen: 5.19 ug/l

RT: 7.973 min Scan# 1029

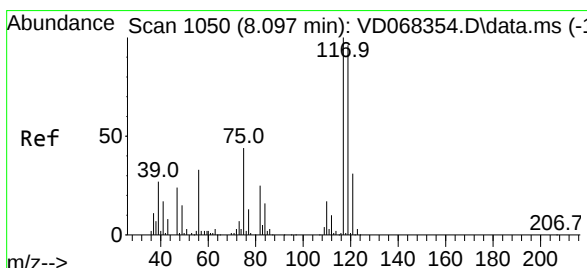
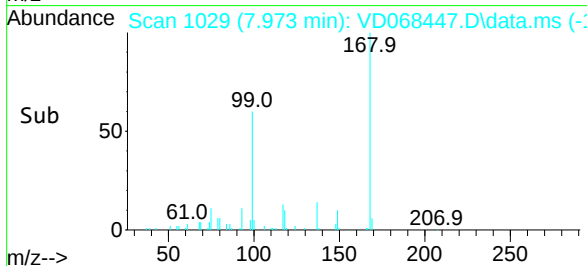
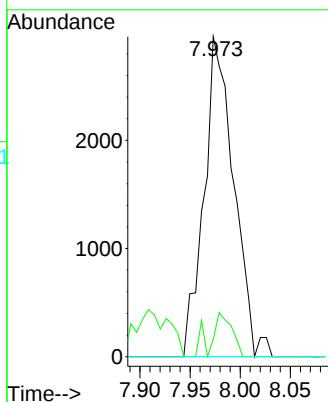
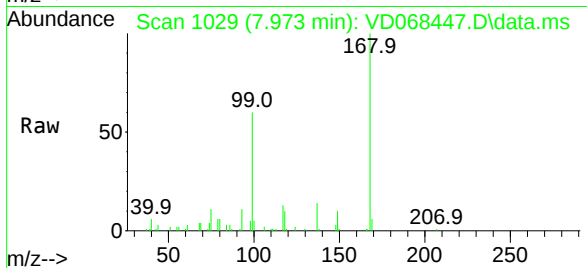
Delta R.T. -0.141 min

Lab File: VD068447.D

Acq: 25 Feb 2021 17:03

Tgt Ion: 75	Resp: 6140
Ion Ratio	Lower Upper
75 100	
110 7.8	19.4 58.2#
77 0.0	25.3 37.9#

Instrument :
MSVOA_D
ClientSampled :



#38

Carbon Tetrachloride

Concen: 6.73 ug/l

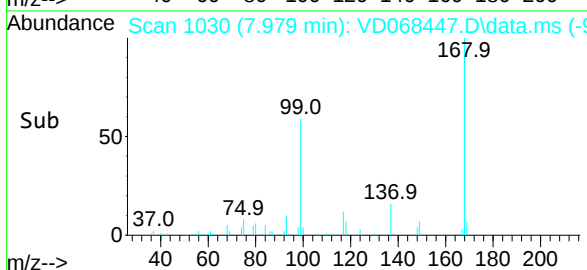
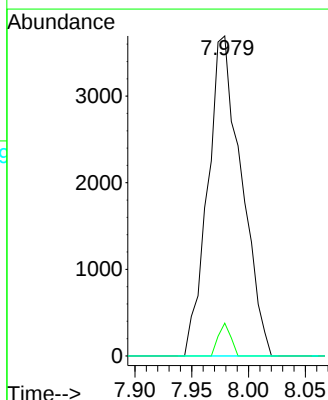
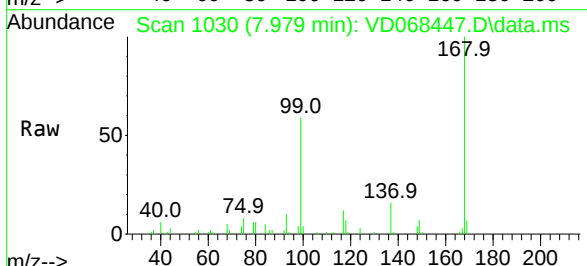
RT: 7.979 min Scan# 1030

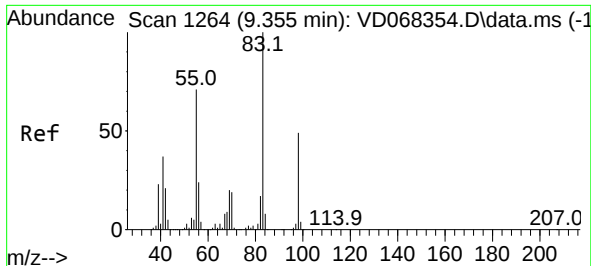
Delta R.T. -0.118 min

Lab File: VD068447.D

Acq: 25 Feb 2021 17:03

Tgt Ion: 117	Resp: 7598
Ion Ratio	Lower Upper
117 100	
119 10.2	77.3 115.9#
121 0.0	24.7 37.1#





#39

Methylcyclohexane

Concen: 1.78 ug/l

RT: 9.355 min Scan# 1264

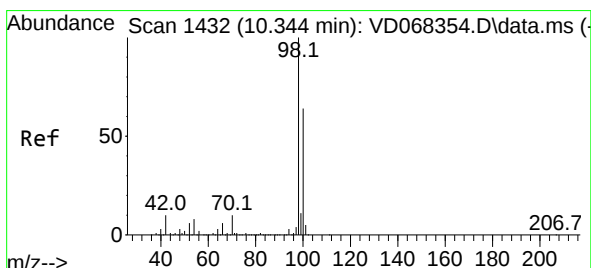
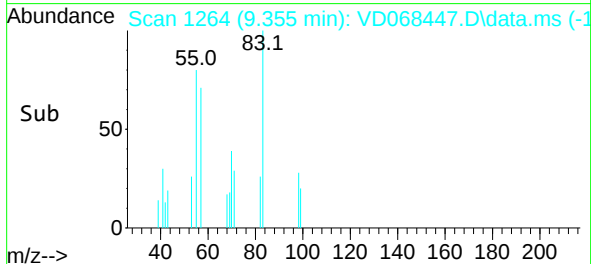
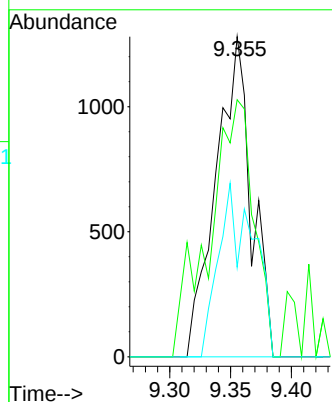
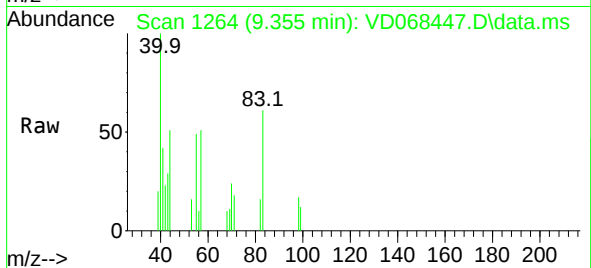
Delta R.T. -0.000 min

Lab File: VD068447.D

Acq: 25 Feb 2021 17:03

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion: 83	Resp: 2584
Ion Ratio	Lower Upper
83 100	
55 80.3	55.2 82.8
98 28.0	39.1 58.7#



#50

Toluene-d8

Concen: 54.43 ug/l

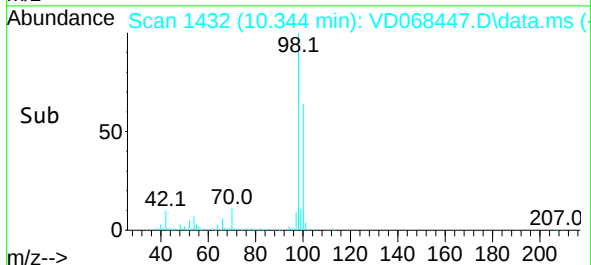
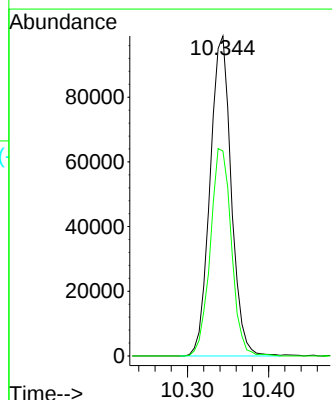
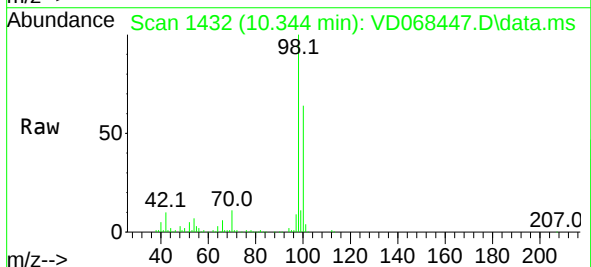
RT: 10.344 min Scan# 1432

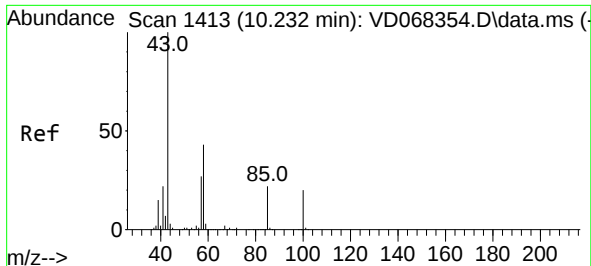
Delta R.T. -0.000 min

Lab File: VD068447.D

Acq: 25 Feb 2021 17:03

Tgt Ion: 98	Resp: 179229
Ion Ratio	Lower Upper
98 100	
100 64.6	53.0 79.4

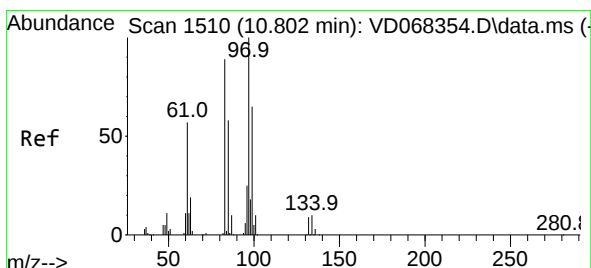
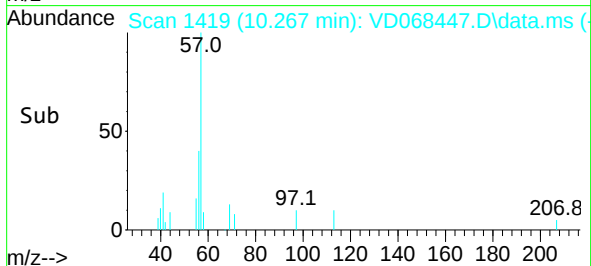
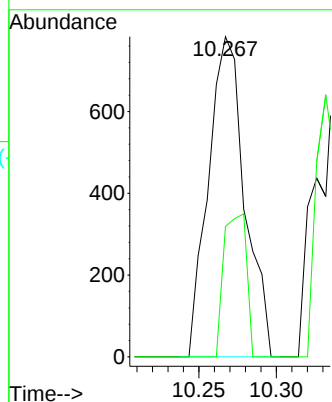
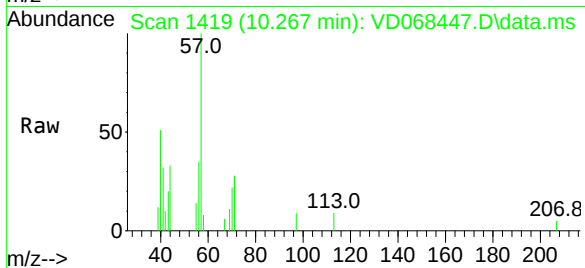




#51
4-Methyl-2-Pentanone
Concen: 3.25 ug/l
RT: 10.267 min Scan# 1419
Delta R.T. 0.035 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

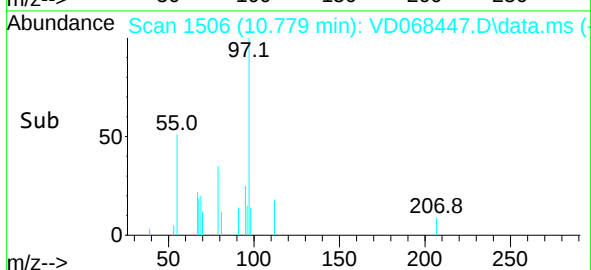
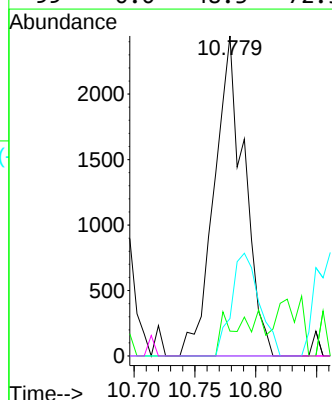
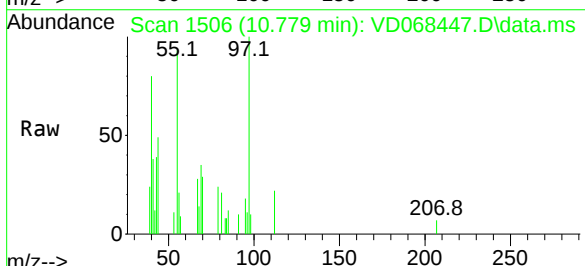
Instrument :
MSVOA_D
ClientSampled :

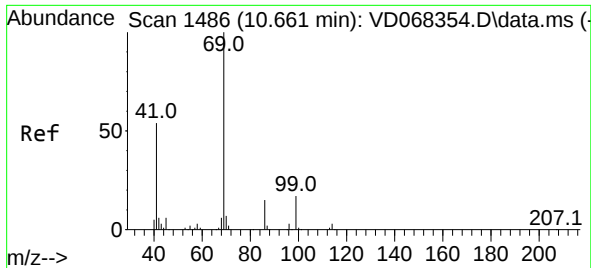
Tgt Ion: 43 Resp: 1280
Ion Ratio Lower Upper
43 100
58 27.7 36.1 54.1#



#55
1,1,2-Trichloroethane
Concen: 6.77 ug/l
RT: 10.779 min Scan# 1506
Delta R.T. -0.024 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Tgt Ion: 97 Resp: 4182
Ion Ratio Lower Upper
97 100
83 7.8 61.8 92.6#
85 11.7 42.2 63.2#
99 0.0 48.3 72.5#

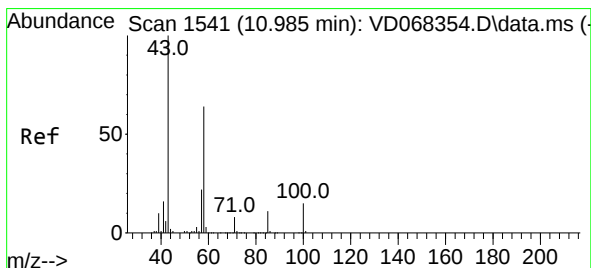
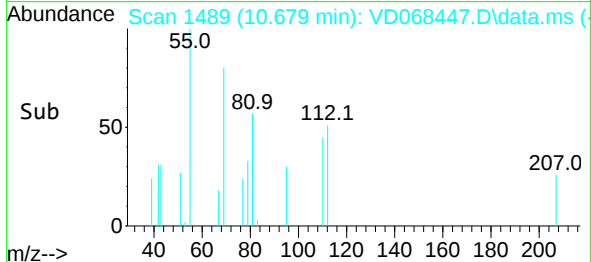
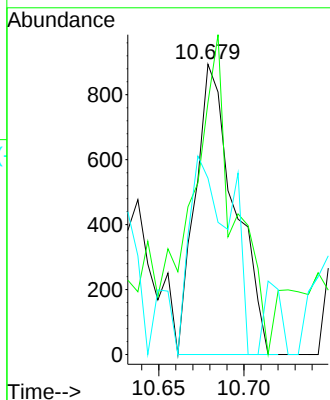
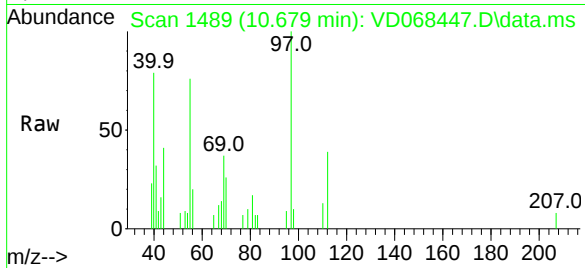




#56
Ethyl methacrylate
Concen: 1.95 ug/l
RT: 10.679 min Scan# 1489
Delta R.T. 0.018 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

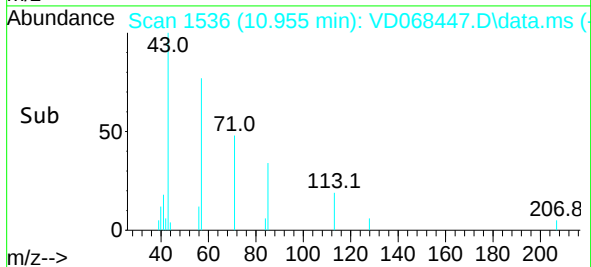
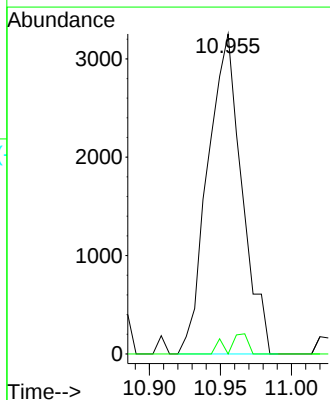
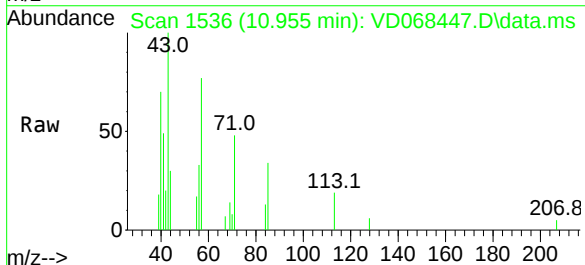
Instrument :
MSVOA_D
ClientSampled :

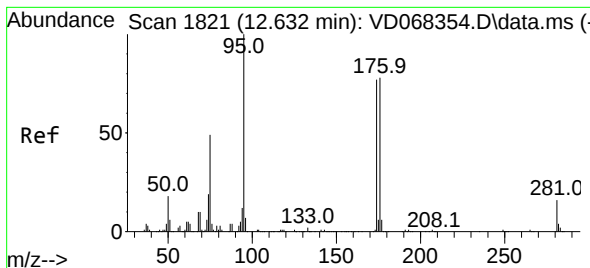
Tgt Ion: 69 Resp: 1432
Ion Ratio Lower Upper
69 100
41 117.9 44.9 67.3#
39 70.7 21.9 32.9#



#59
2-Hexanone
Concen: 20.40 ug/l
RT: 10.955 min Scan# 1536
Delta R.T. -0.029 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Tgt Ion: 43 Resp: 5427
Ion Ratio Lower Upper
43 100
58 3.6 31.0 93.0#

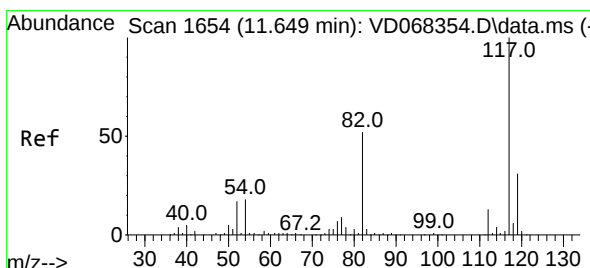
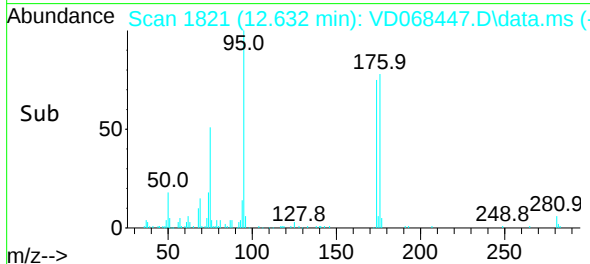
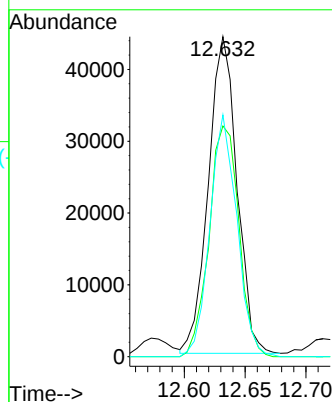
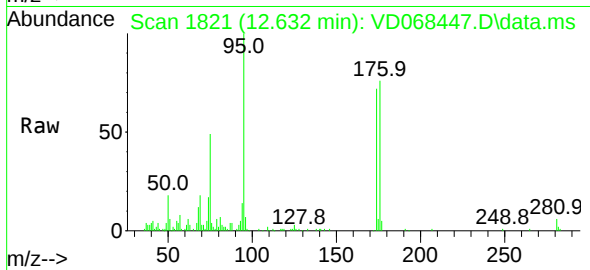




#62
4-Bromofluorobenzene
Concen: 67.24 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

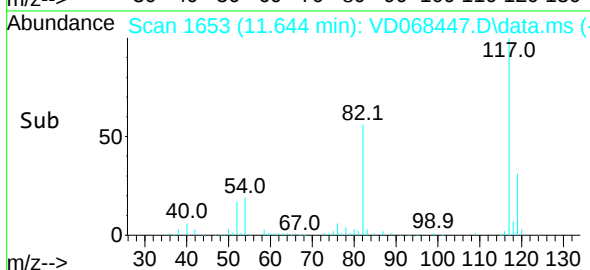
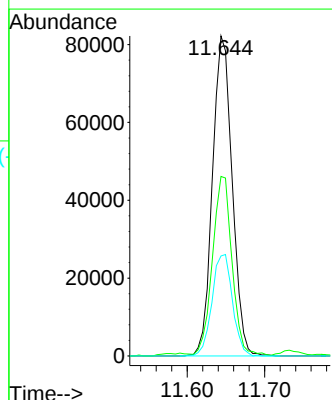
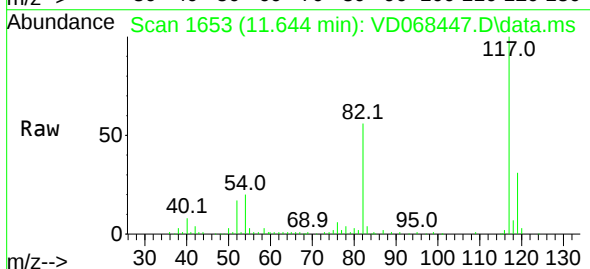
Instrument :
MSVOA_D
ClientSampleId :

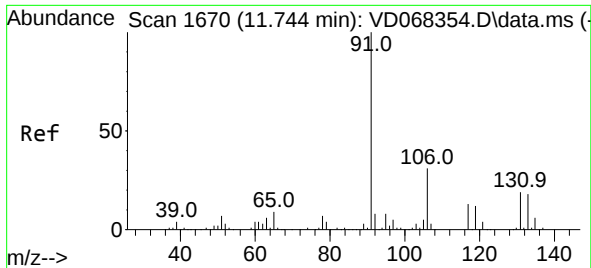
Tgt Ion:	95	Resp:	72124
Ion Ratio	Lower	Upper	
95	100		
174	76.0	0.0	172.4
176	72.0	0.0	168.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. -0.006 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Tgt Ion:	117	Resp:	145472
Ion Ratio	Lower	Upper	
117	100		
82	55.3	41.4	62.0
119	31.3	26.1	39.1

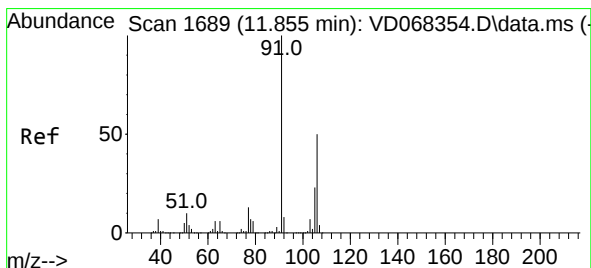
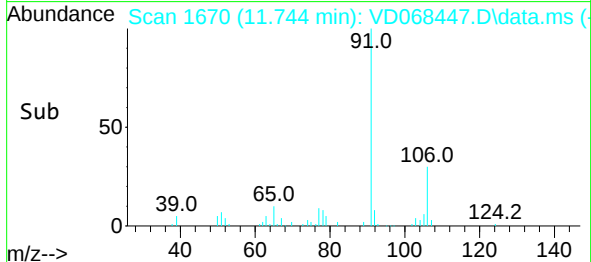
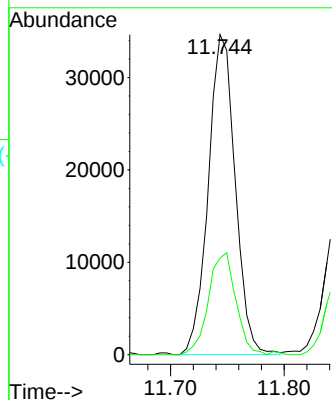
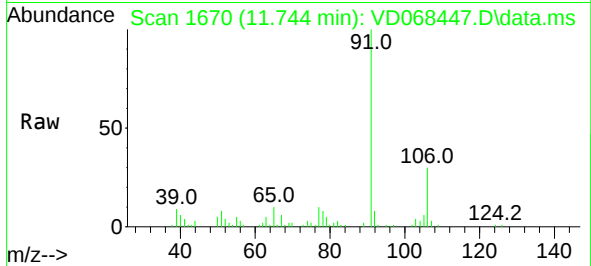




#67
Ethyl Benzene
Concen: 11.39 ug/l
RT: 11.744 min Scan# 1670
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

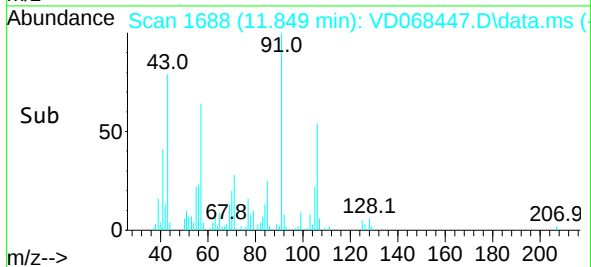
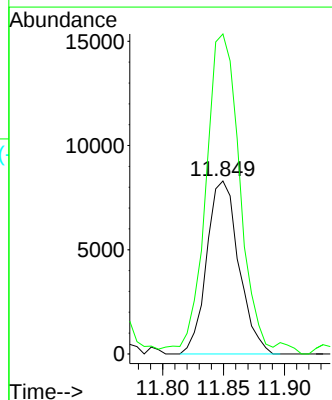
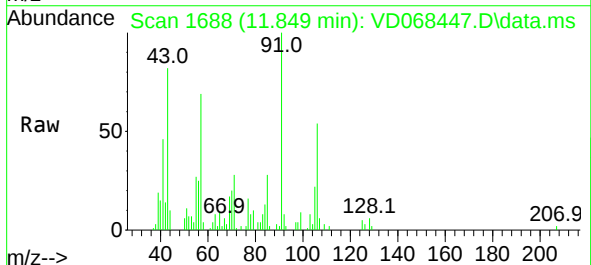
Instrument :
MSVOA_D
ClientSampled :

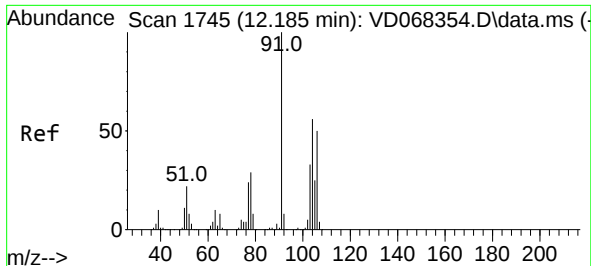
Tgt Ion: 91 Resp: 57136
Ion Ratio Lower Upper
91 100
106 30.2 25.9 38.9



#68
m/p-Xylenes
Concen: 8.01 ug/l
RT: 11.849 min Scan# 1688
Delta R.T. -0.006 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Tgt Ion: 106 Resp: 15187
Ion Ratio Lower Upper
106 100
91 189.1 159.1 238.7

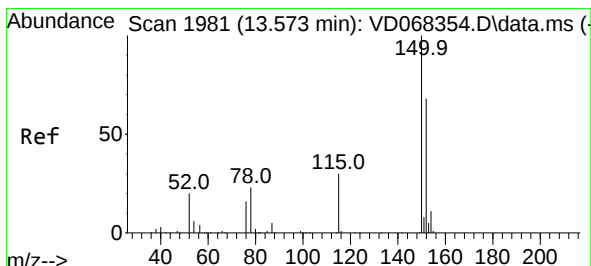
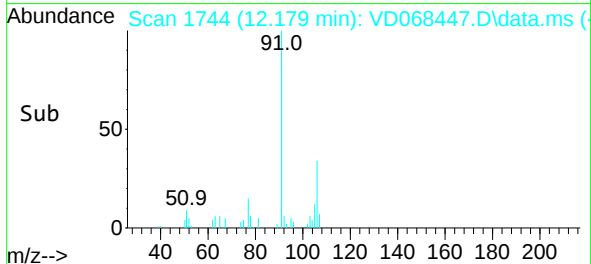
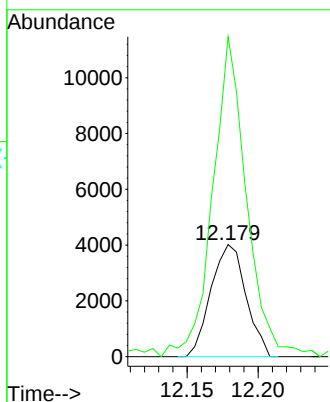
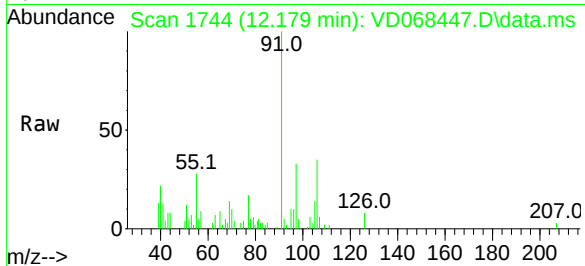




#69
o-Xylene
Concen: 3.97 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. -0.006 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

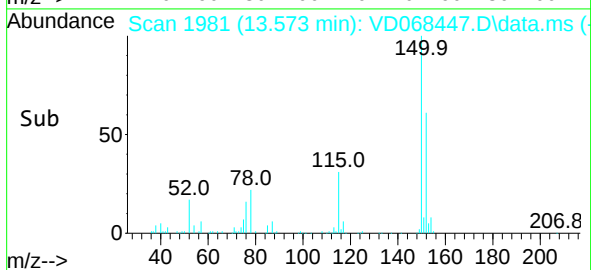
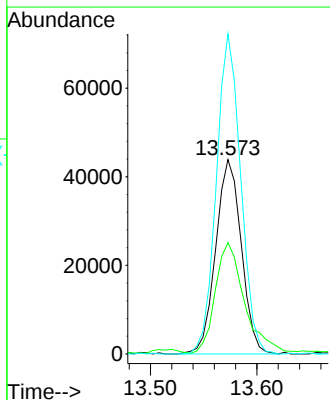
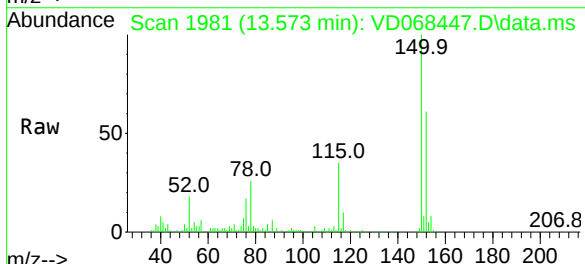
Instrument :
MSVOA_D
ClientSampled :

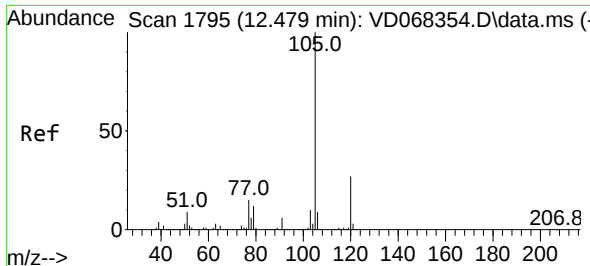
Tgt Ion:106 Resp: 6896
Ion Ratio Lower Upper
106 100
91 275.0 108.7 325.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Tgt Ion:152 Resp: 73210
Ion Ratio Lower Upper
152 100
115 64.6 28.9 86.8
150 156.8 0.0 344.4

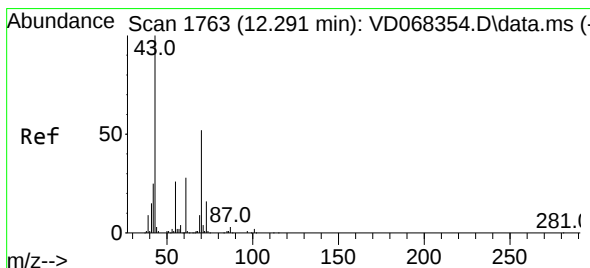
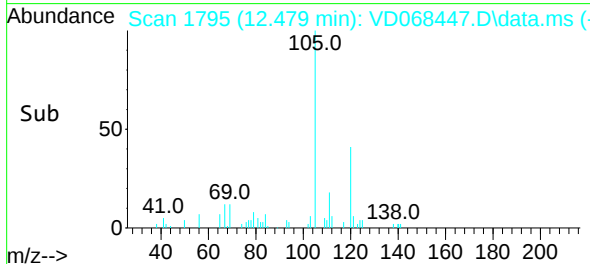
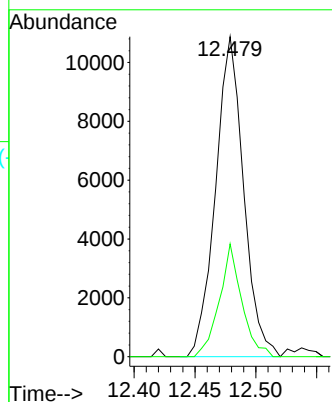
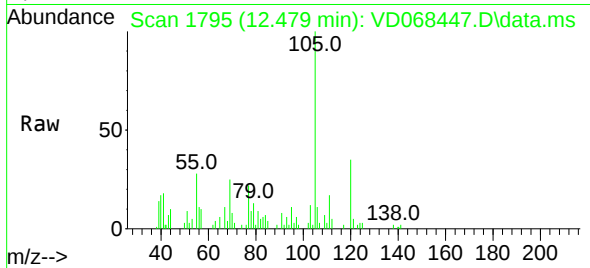




#73
Isopropylbenzene
Concen: 3.26 ug/l
RT: 12.479 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

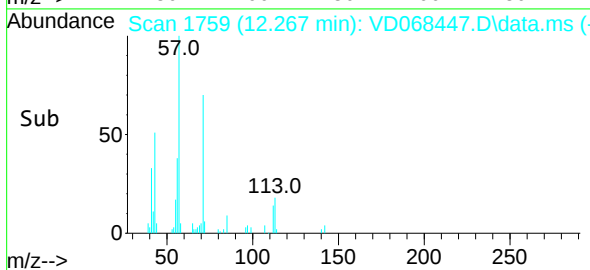
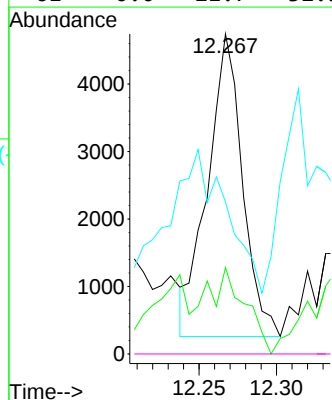
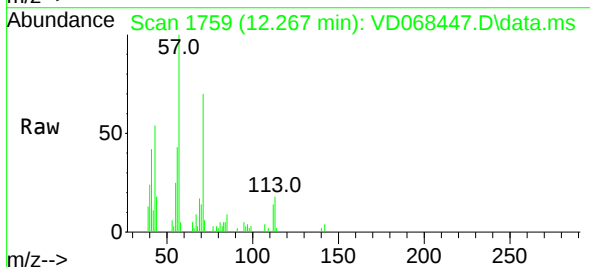
Instrument :
MSVOA_D
ClientSampleId :

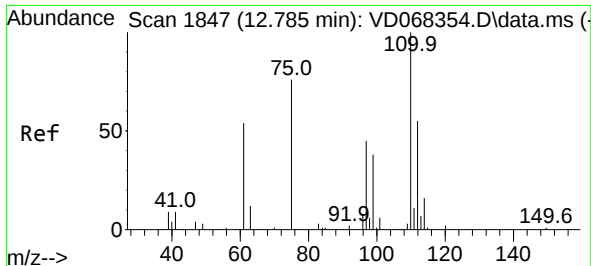
Tgt Ion:105 Resp: 17427
Ion Ratio Lower Upper
105 100
120 28.2 13.2 39.6



#74
N-ethyl acetate
Concen: 7.39 ug/l
RT: 12.267 min Scan# 1759
Delta R.T. -0.024 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Tgt Ion: 43 Resp: 6976
Ion Ratio Lower Upper
43 100
70 28.7 41.8 62.8#
55 0.0 24.2 36.4#
61 0.0 21.7 32.5#

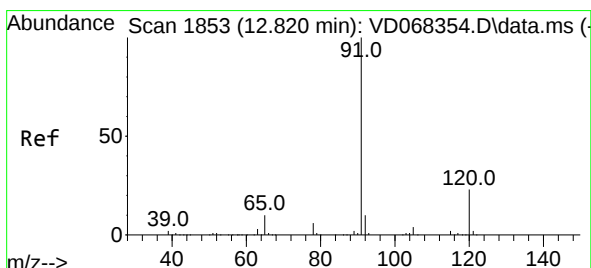
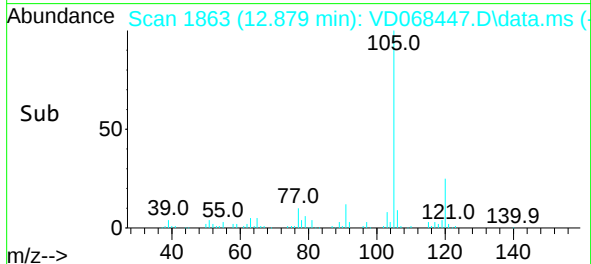
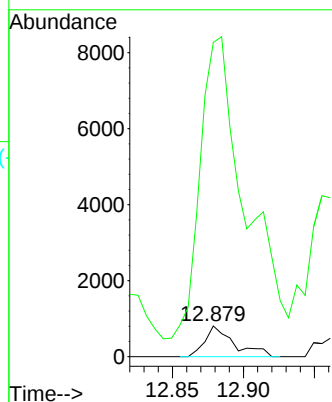
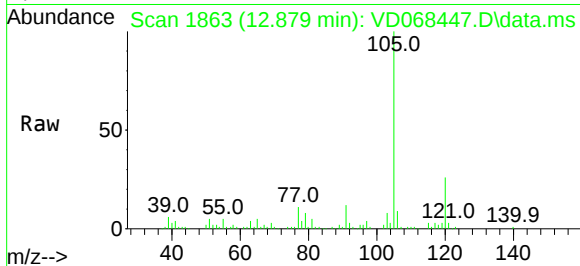




#76
1,2,3-Trichloropropane
Concen: 1.65 ug/l
RT: 12.879 min Scan# 1863
Delta R.T. 0.094 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

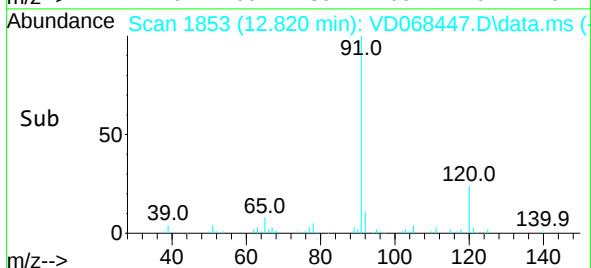
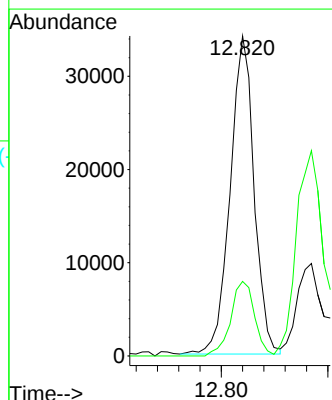
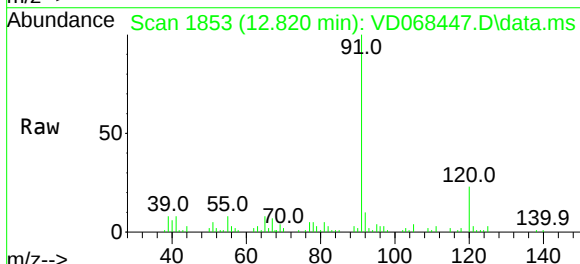
Instrument :
MSVOA_D
ClientSampled :

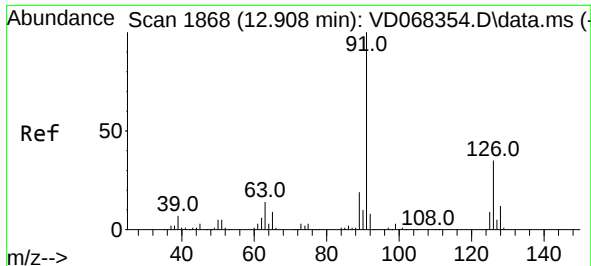
Tgt Ion: 75 Resp: 1151
Ion Ratio Lower Upper
75 100
77 1590.7 0.0 0.0#



#78
n-propylbenzene
Concen: 8.33 ug/l
RT: 12.820 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Tgt Ion: 91 Resp: 53301
Ion Ratio Lower Upper
91 100
120 23.3 12.0 36.0

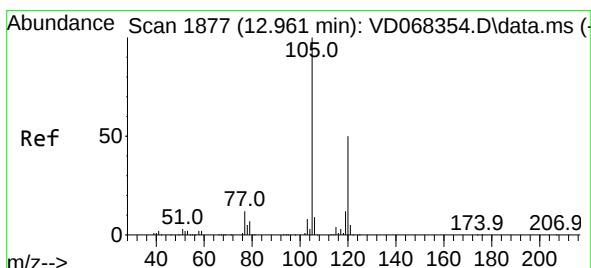
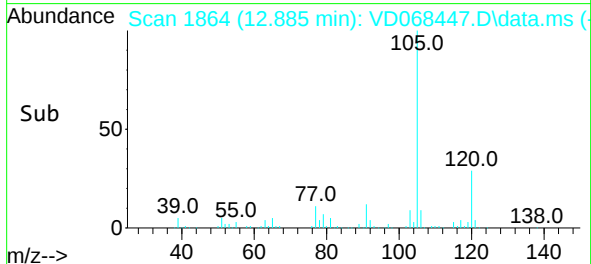
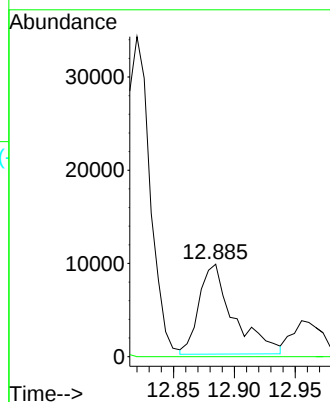
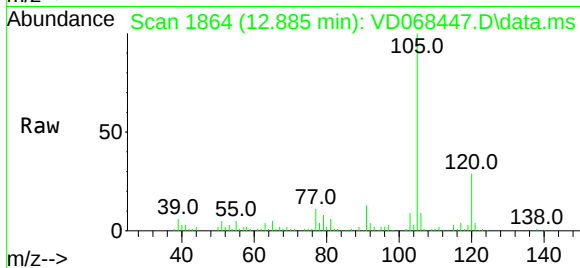




#79
2-Chlorotoluene
Concen: 5.38 ug/l
RT: 12.885 min Scan# 1864
Delta R.T. -0.024 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

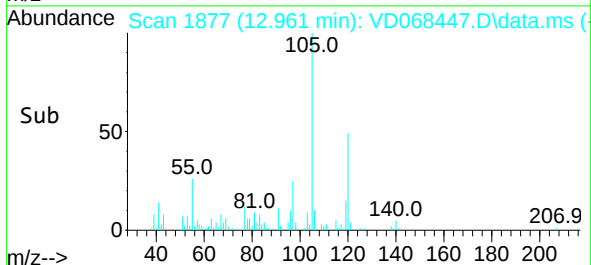
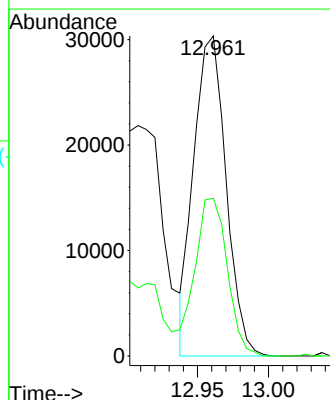
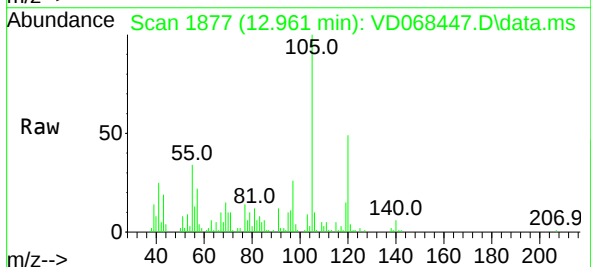
Instrument :
MSVOA_D
ClientSampled :

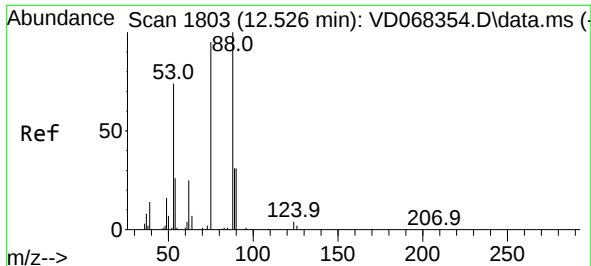
Tgt Ion: 91 Resp: 19077
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.5#



#80
1,3,5-Trimethylbenzene
Concen: 10.98 ug/l
RT: 12.961 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Tgt Ion: 105 Resp: 47964
Ion Ratio Lower Upper
105 100
120 50.6 24.2 72.6

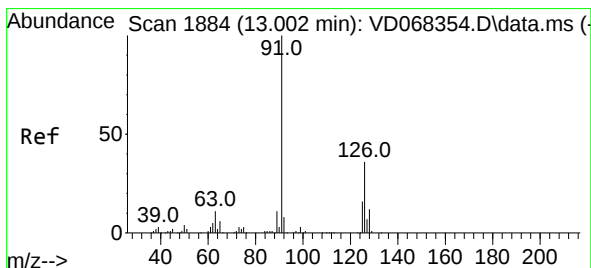
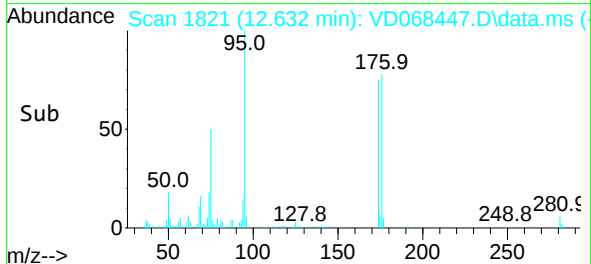
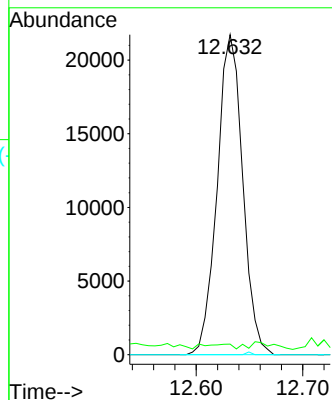
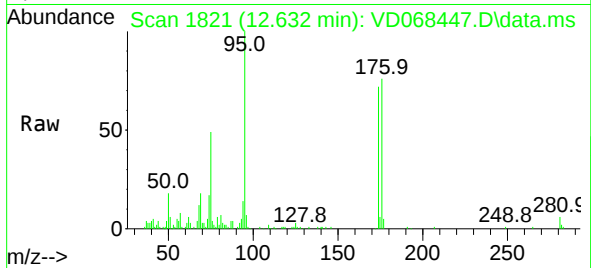




#81
trans-1,4-Dichloro-2-butene
Concen: 129.93 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

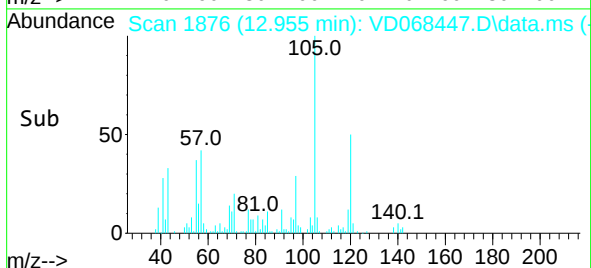
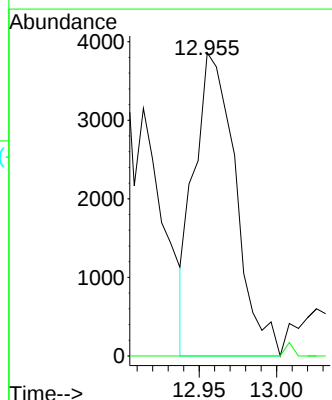
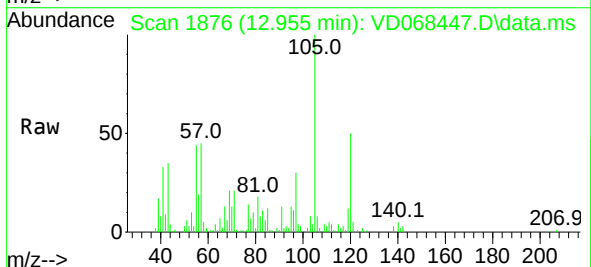
Instrument :
MSVOA_D
ClientSampled :

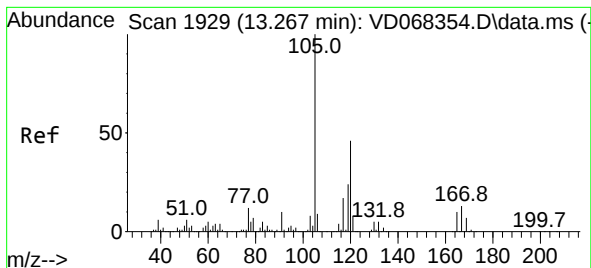
Tgt Ion: 75 Resp: 36112
Ion Ratio Lower Upper
75 100
53 0.0 70.2 105.2#
89 0.0 40.3 60.5#



#82
4-Chlorotoluene
Concen: 1.91 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. -0.047 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Tgt Ion: 91 Resp: 7149
Ion Ratio Lower Upper
91 100
126 0.0 17.7 53.1#

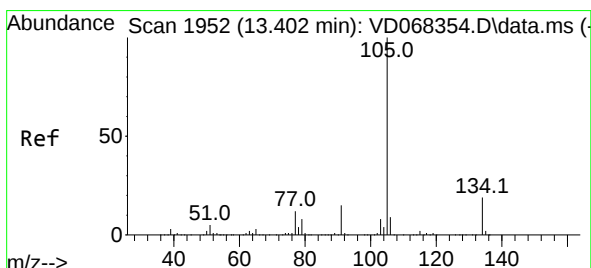
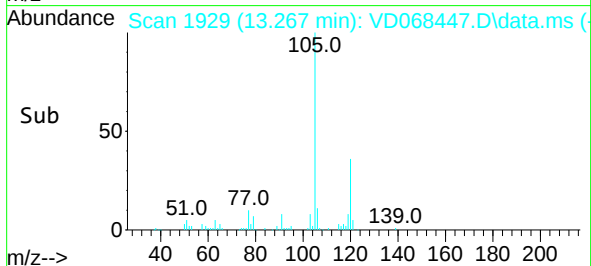
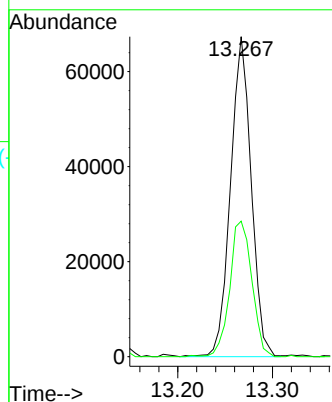
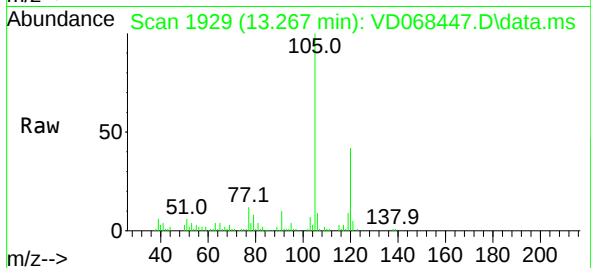




#84
1,2,4-Trimethylbenzene
Concen: 23.45 ug/l
RT: 13.267 min Scan# 1929
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

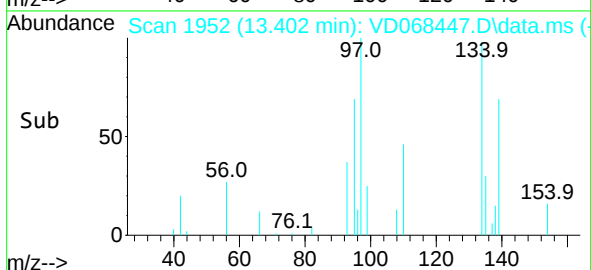
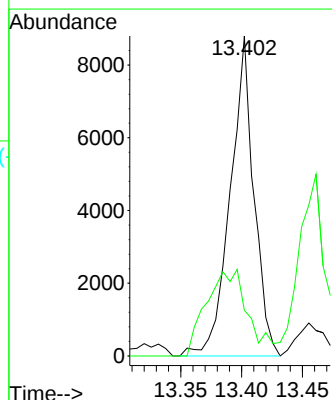
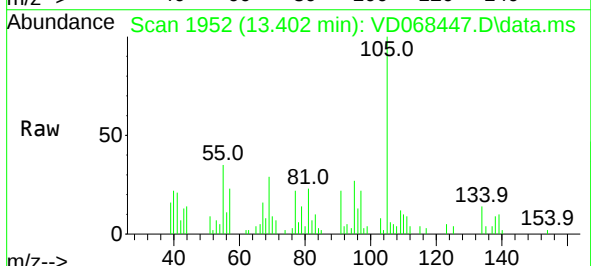
Instrument :
MSVOA_D
ClientSampled :

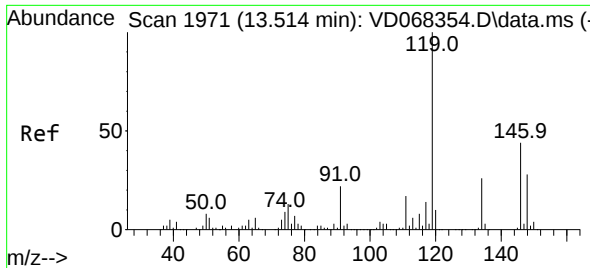
Tgt Ion:105 Resp: 102098
Ion Ratio Lower Upper
105 100
120 45.3 22.4 67.0



#85
sec-Butylbenzene
Concen: 2.25 ug/l
RT: 13.402 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Tgt Ion:105 Resp: 11908
Ion Ratio Lower Upper
105 100
134 47.0 10.3 30.9#

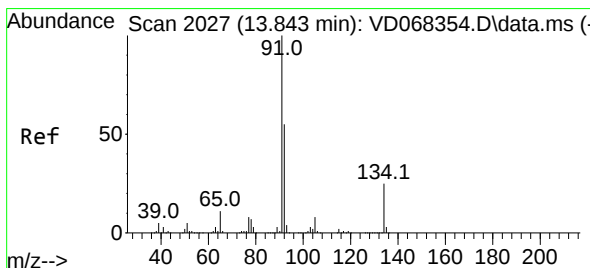
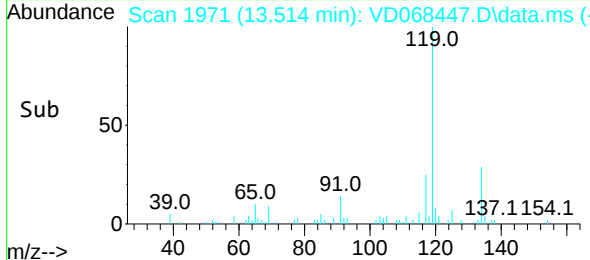
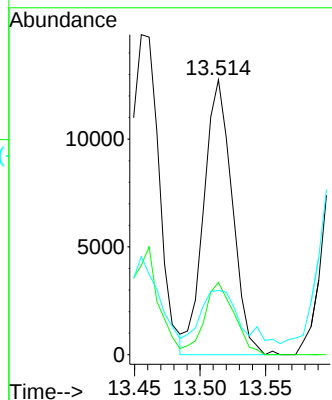
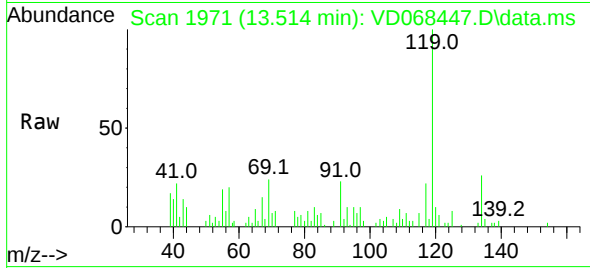




#86
p-Isopropyltoluene
Concen: 4.05 ug/l
RT: 13.514 min Scan# 1971
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

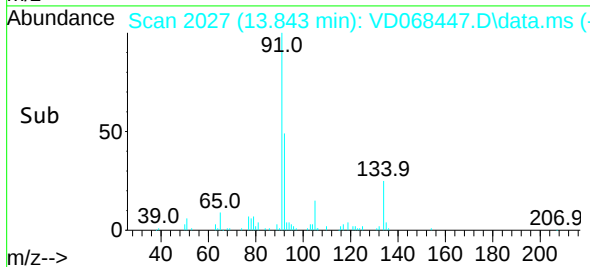
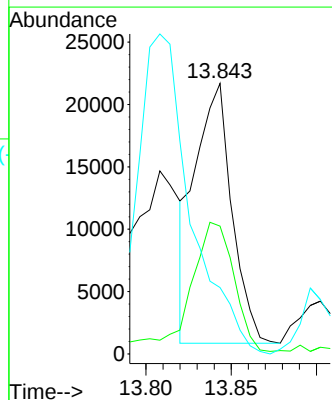
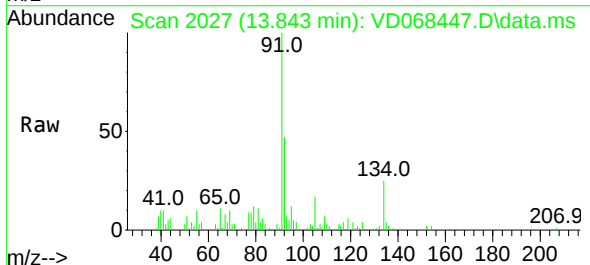
Instrument :
MSVOA_D
ClientSampled :

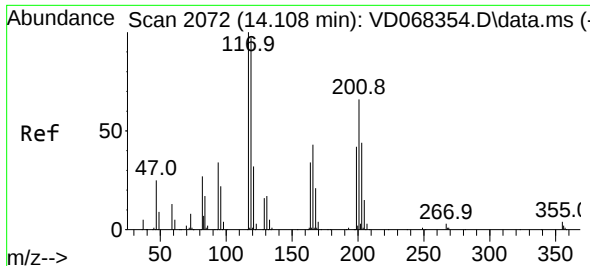
Tgt Ion:119	Resp:	19265
Ion	Ratio	Lower Upper
119	100	
134	27.6	12.9 38.7
91	25.8	11.7 35.0



#89
n-Butylbenzene
Concen: 6.72 ug/l
RT: 13.843 min Scan# 2027
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Tgt Ion: 91	Resp:	31213
Ion	Ratio	Lower Upper
91	100	
92	57.8	27.2 81.6
134	0.0	13.9 41.7#

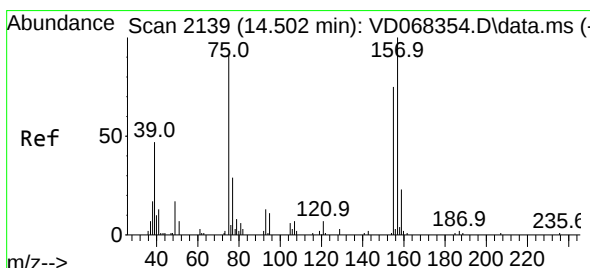
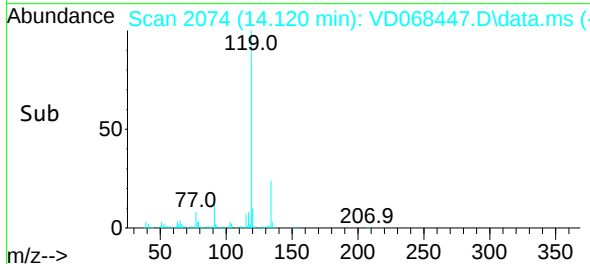
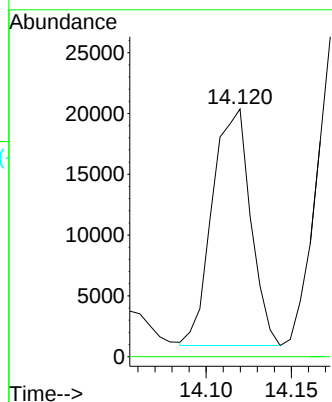
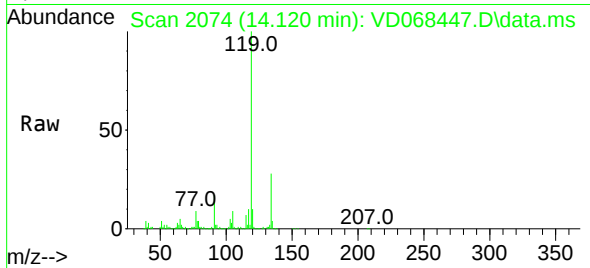




#90
Hexachloroethane
Concen: 35.16 ug/l
RT: 14.120 min Scan# 2074
Delta R.T. 0.012 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

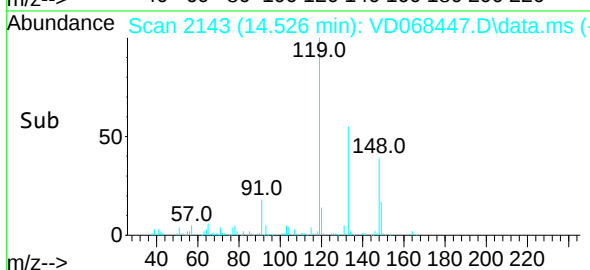
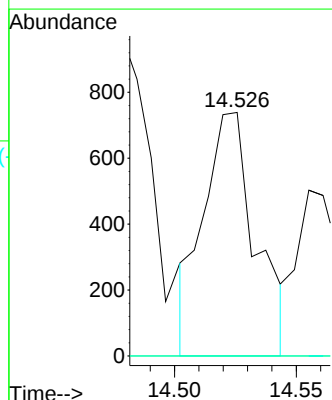
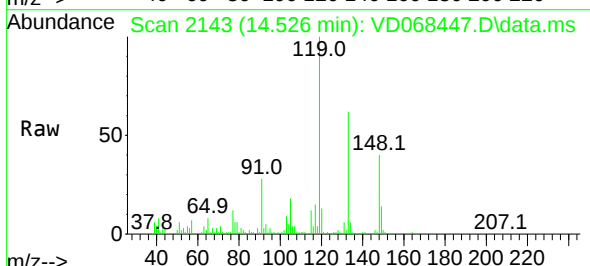
Instrument :
MSVOA_D
ClientSampleId :

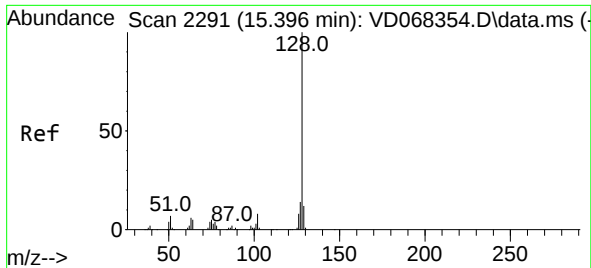
Tgt Ion:117 Resp: 30386
Ion Ratio Lower Upper
117 100
201 0.0 39.5 118.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 8.12 ug/l
RT: 14.526 min Scan# 2143
Delta R.T. 0.023 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

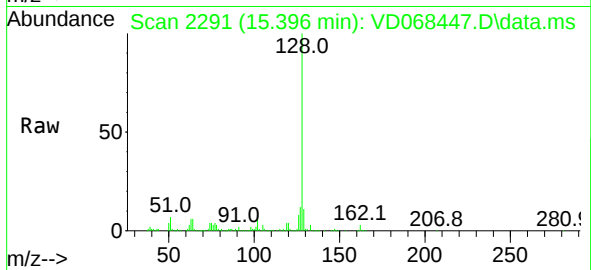
Tgt Ion: 75 Resp: 1100
Ion Ratio Lower Upper
75 100
155 0.0 48.0 144.2#
157 0.0 65.0 194.8#





#95
Naphthalene
Concen: 205.71 ug/l
RT: 15.396 min Scan# 2291
Delta R.T. -0.000 min
Lab File: VD068447.D
Acq: 25 Feb 2021 17:03

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:	128	Resp:	501946
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	11.4	8.8	13.2

