

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD040121\
 Data File : VD068755.D
 Acq On : 01 Apr 2021 13:39
 Operator : VA/SY
 Sample : M1886-03
 Misc : 6.10G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-124027

Quant Time: Apr 02 01:03:28 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)

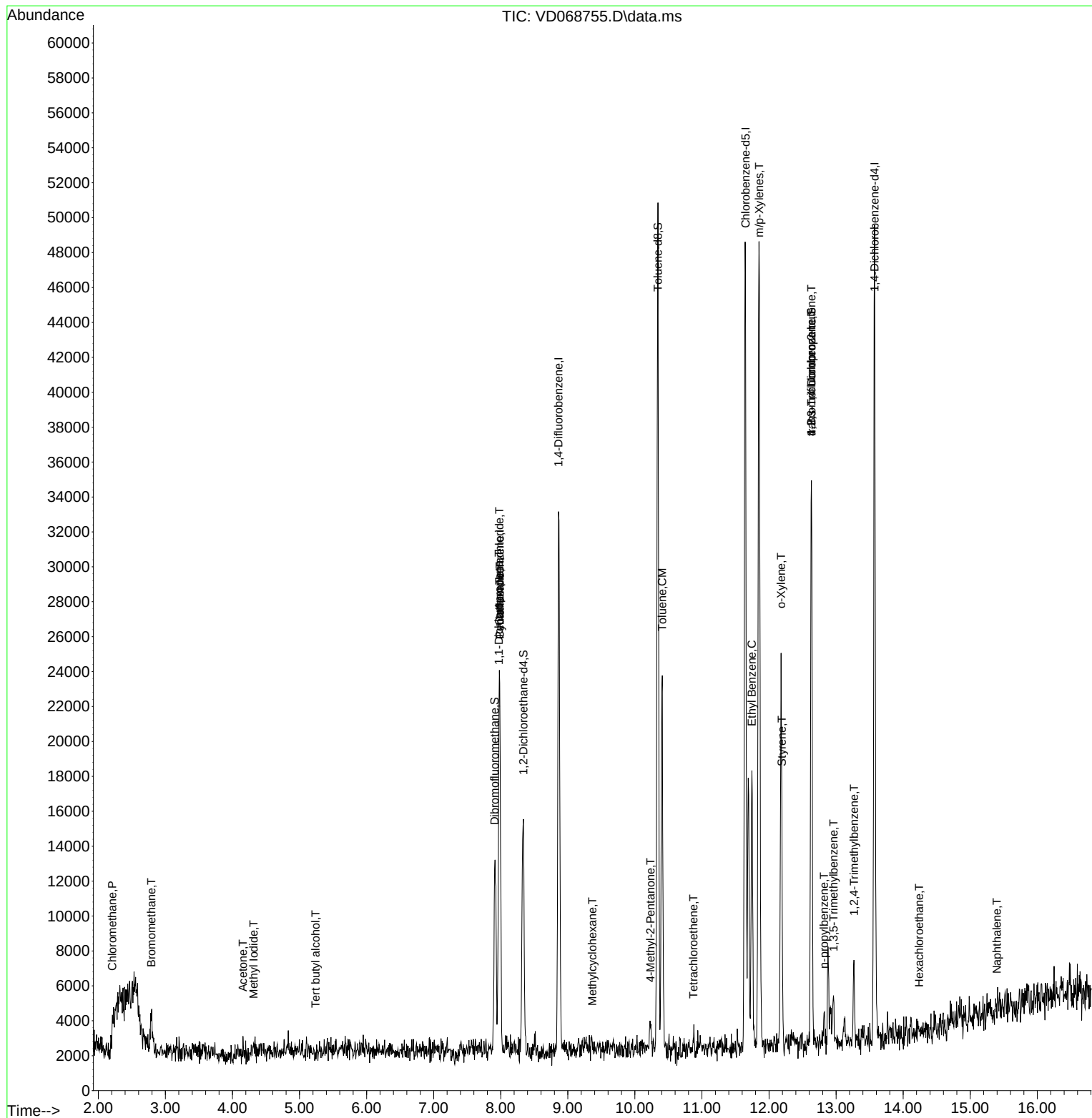
Internal Standards						
1) Pentafluorobenzene	7.985	168	16505	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	27848	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.650	117	29319	50.00	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	12767	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.338	65	10922	65.63	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	131.26%		
35) Dibromofluoromethane	7.909	113	7848	45.29	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	90.58%		
50) Toluene-d8	10.344	98	33160	49.64	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	99.28%		
62) 4-Bromofluorobenzene	12.632	95	11256	51.97	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	103.94%		
Target Compounds					Qvalue	
3) Chloromethane	2.209	50	366	2.30	ug/l #	41
5) Bromomethane	2.791	94	1642	11.83	ug/l #	74
10) Methyl Iodide	4.315	142	1196	10.52	ug/l #	63
11) Tert butyl alcohol	5.238	59	58	7.56	ug/l #	73
16) Acetone	4.156	43	415	20.55	ug/l #	84
20) Methylene Chloride	4.991	84	55	Below Cal	#	12
31) Cyclohexane	7.985	56	486	1.81	ug/l #	55
36) 1,1-Dichloropropene	7.973	75	649	2.61	ug/l #	41
38) Carbon Tetrachloride	7.979	117	1581	6.37	ug/l #	12
39) Methylcyclohexane	9.367	83	502	1.64	ug/l #	22
51) 4-Methyl-2-Pentanone	10.232	43	1210	15.44	ug/l #	59
52) Toluene	10.408	92	8988	19.57	ug/l	90
64) Tetrachloroethene	10.873	164	235	1.24	ug/l #	18
67) Ethyl Benzene	11.744	91	12627	12.54	ug/l	98
68) m/p-Xylenes	11.855	106	15144	38.61	ug/l	97
69) o-Xylene	12.179	106	5602	15.41	ug/l	90
70) Styrene	12.191	104	2470	3.95	ug/l #	76
76) 1,2,3-Trichloropropane	12.632	75	5541	52.14	ug/l #	100
78) n-propylbenzene	12.820	91	1702	1.63	ug/l #	74
80) 1,3,5-Trimethylbenzene	12.961	105	1409	1.99	ug/l	67
81) trans-1,4-Dichloro-2-b...	12.632	75	5541	118.64	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.267	105	2810	3.83	ug/l	95
90) Hexachloroethane	14.238	117	268	1.86	ug/l #	14
95) Naphthalene	15.396	128	1184	2.99	ug/l #	69

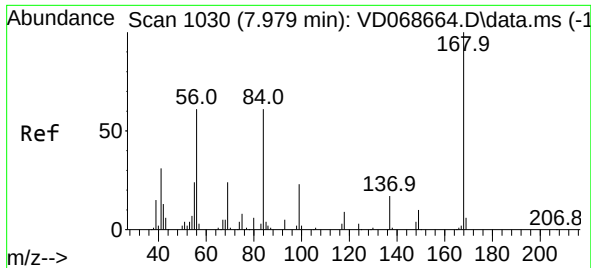
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

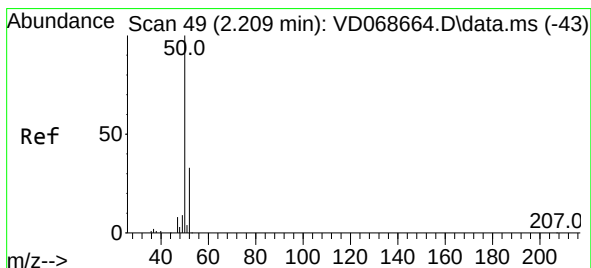
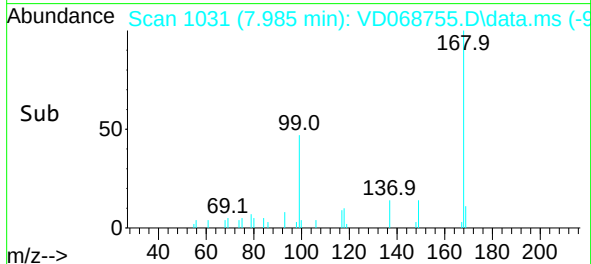
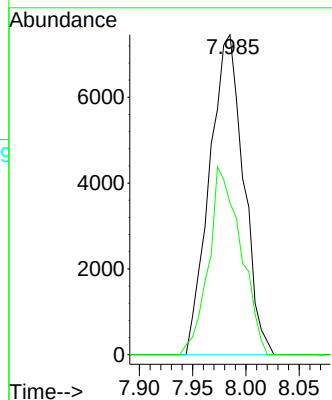
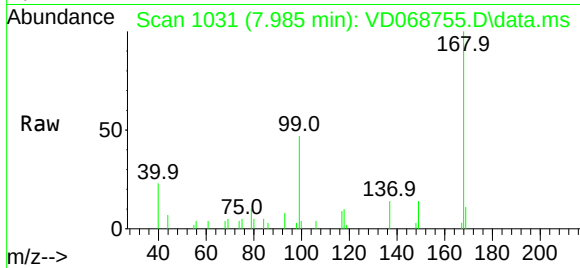




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. 0.006 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

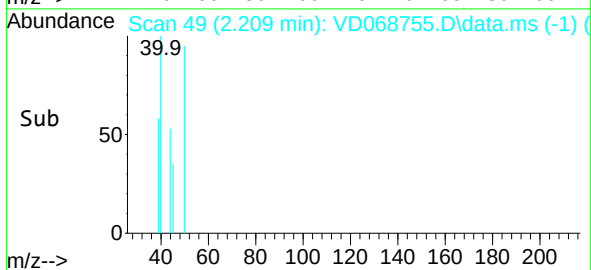
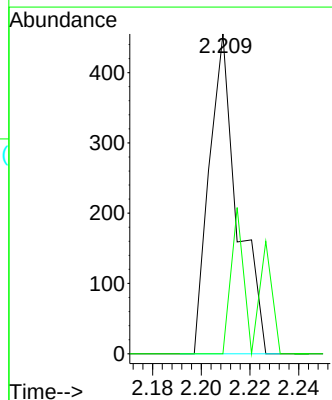
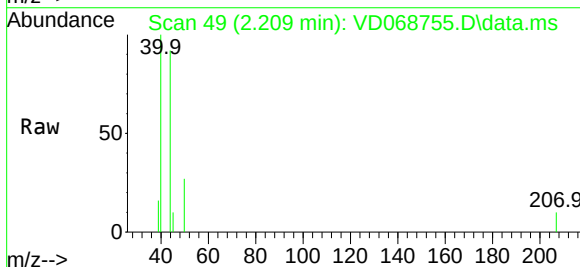
Instrument :
MSVOA_D
ClientSampleId :
RO-124027

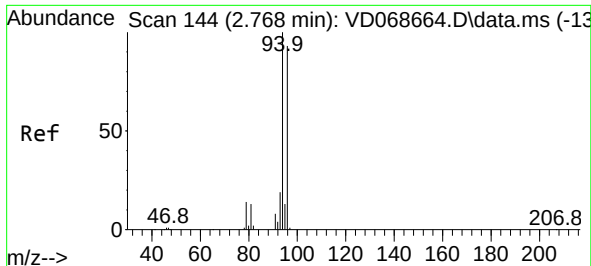
Tgt Ion:168 Resp: 16505
Ion Ratio Lower Upper
168 100
99 47.5 46.2 69.2



#3
Chloromethane
Concen: 2.30 ug/l
RT: 2.209 min Scan# 49
Delta R.T. 0.000 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Tgt Ion: 50 Resp: 366
Ion Ratio Lower Upper
50 100
52 0.0 26.7 40.1#

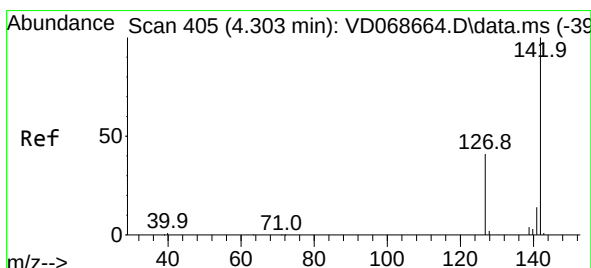
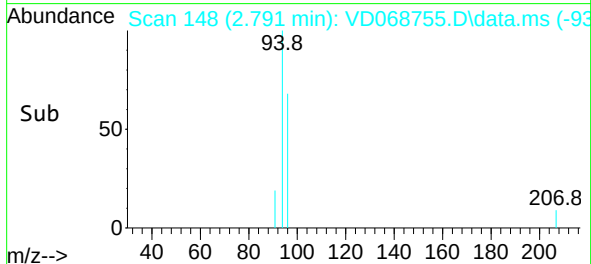
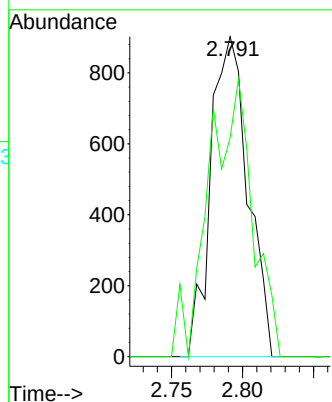
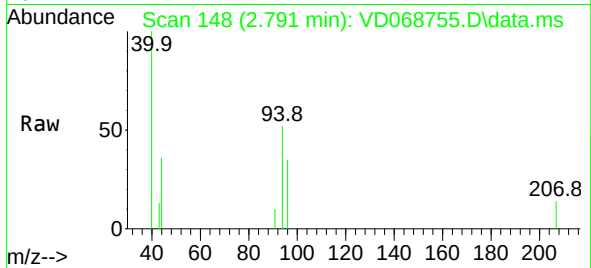




#5
Bromomethane
Concen: 11.83 ug/l
RT: 2.791 min Scan# 148
Delta R.T. 0.023 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

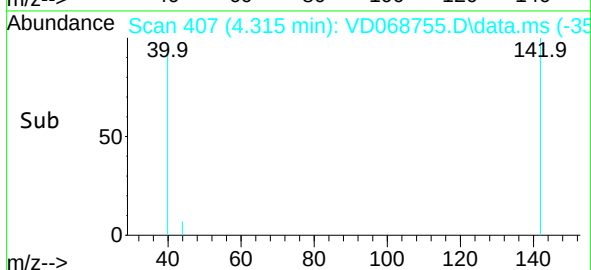
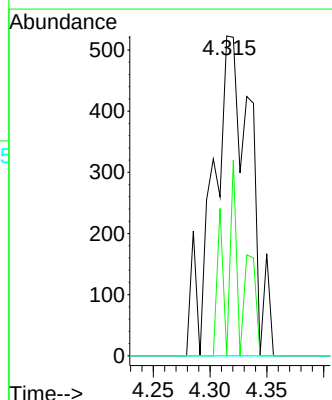
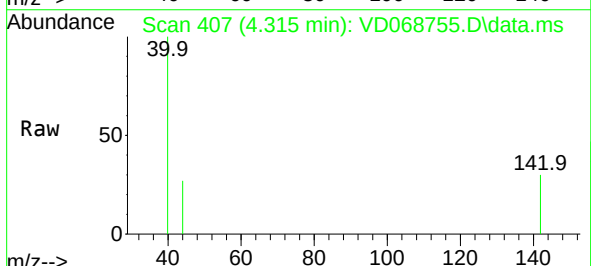
Instrument :
MSVOA_D
ClientSampleId :
RO-124027

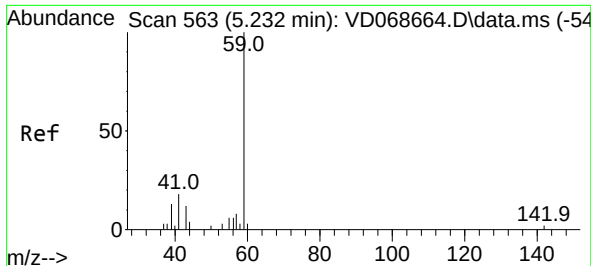
Tgt Ion: 94 Resp: 1642
Ion Ratio Lower Upper
94 100
96 68.4 74.7 112.1#



#10
Methyl Iodide
Concen: 10.52 ug/l
RT: 4.315 min Scan# 407
Delta R.T. 0.012 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Tgt Ion: 142 Resp: 1196
Ion Ratio Lower Upper
142 100
127 19.1 34.7 52.1#
141 0.0 11.0 16.4#

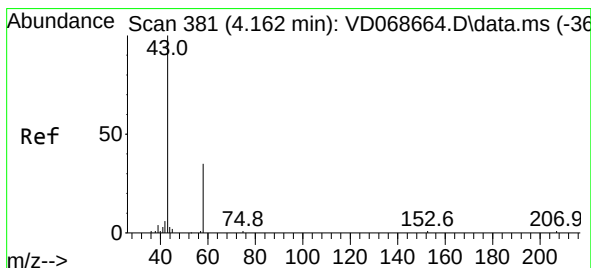
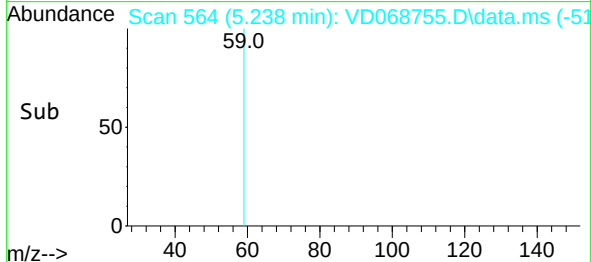
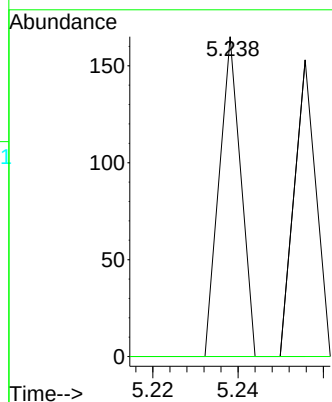
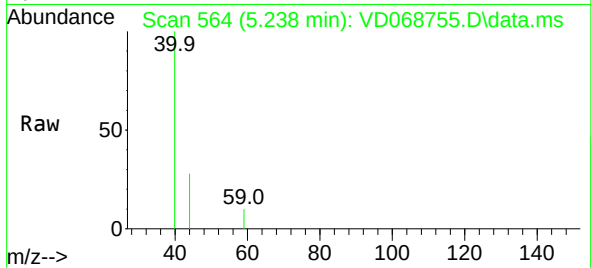




#11
Tert butyl alcohol
Concen: 7.56 ug/l
RT: 5.238 min Scan# 564
Delta R.T. 0.006 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

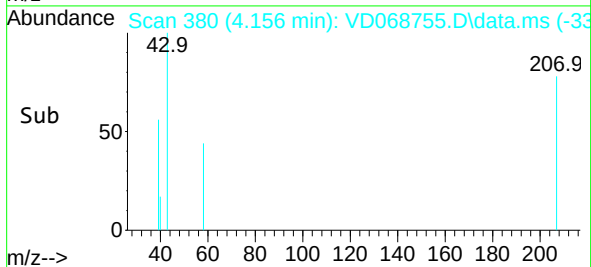
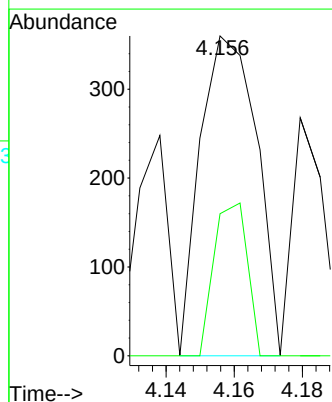
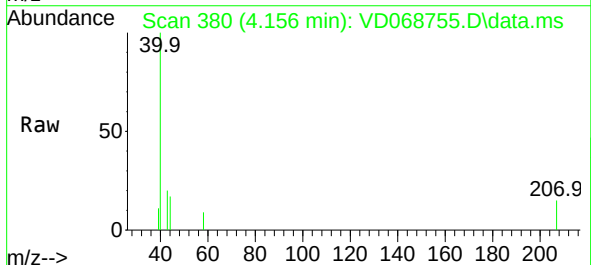
Instrument :
MSVOA_D
ClientSampleId :
RO-124027

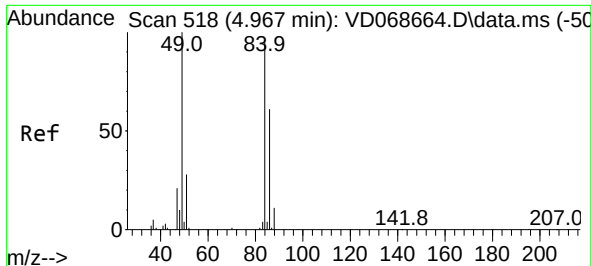
Tgt Ion: 59 Resp: 58
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#16
Acetone
Concen: 20.55 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.006 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

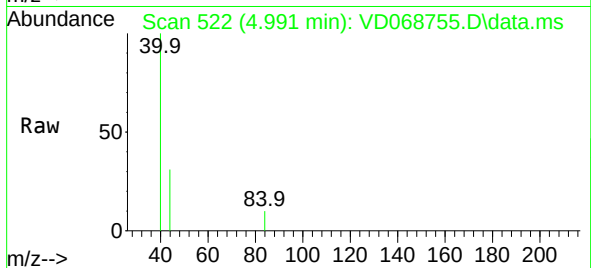
Tgt Ion: 43 Resp: 415
Ion Ratio Lower Upper
43 100
58 44.4 28.0 42.0#



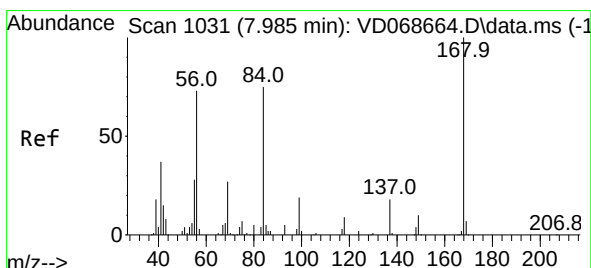
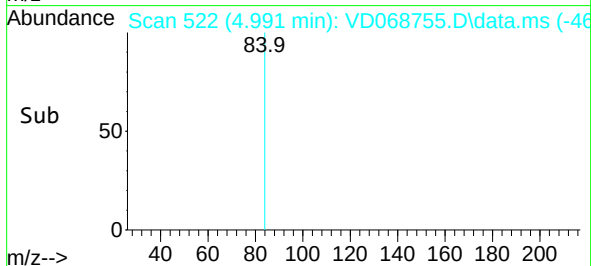
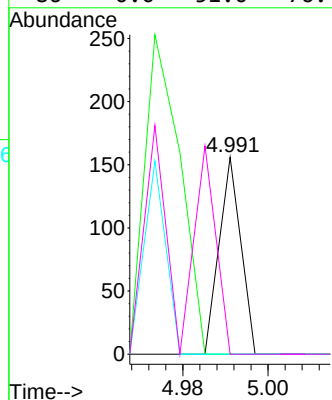


#20
Methylene Chloride
Concen: Below Cal
RT: 4.991 min Scan# 522
Delta R.T. 0.024 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Instrument :
MSVOA_D
ClientSampleId :
RO-124027

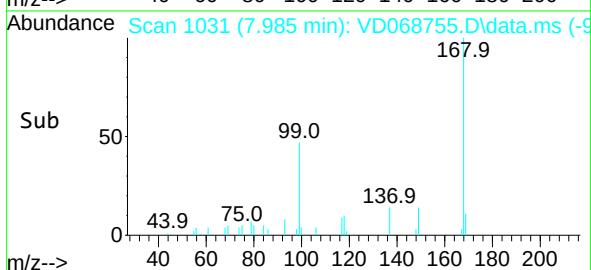
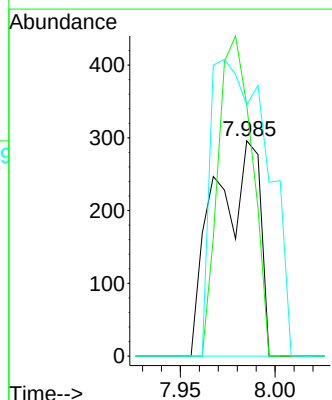
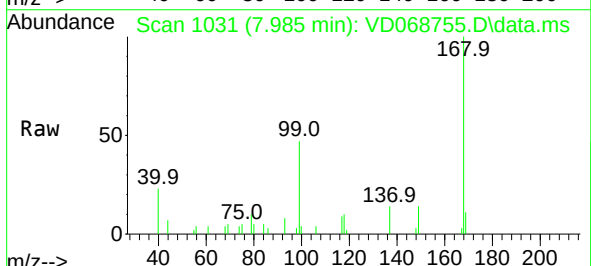


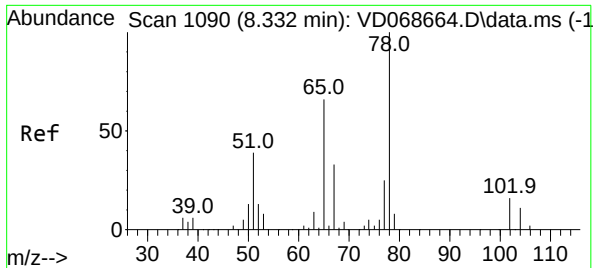
Tgt Ion:	84	Resp:	55
Ion	Ratio	Lower	Upper
84	100		
49	0.0	83.4	125.0#
51	0.0	23.4	35.2#
86	0.0	51.0	76.4#



#31
Cyclohexane
Concen: 1.81 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Tgt Ion:	56	Resp:	486
Ion	Ratio	Lower	Upper
56	100		
69	116.6	30.0	45.0#
84	116.6	82.0	123.0

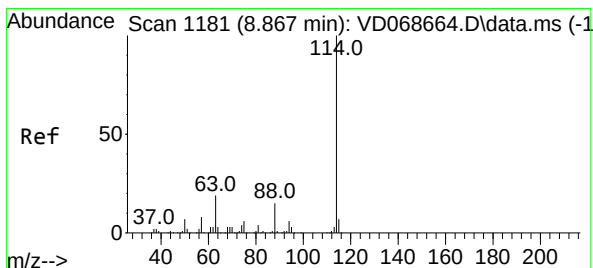
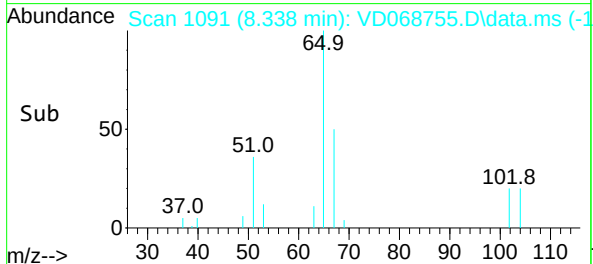
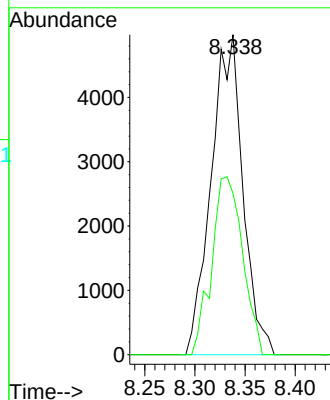
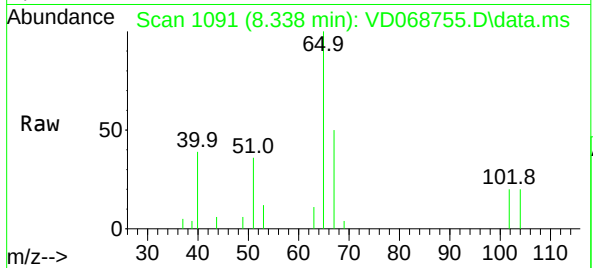




#33
1,2-Dichloroethane-d4
Concen: 65.63 ug/l
RT: 8.338 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

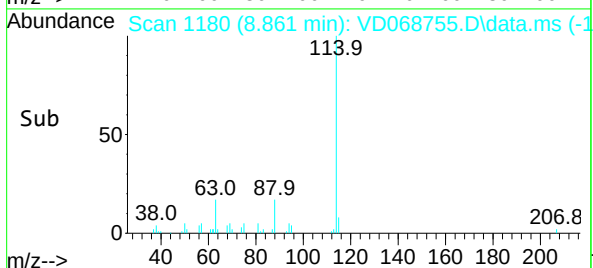
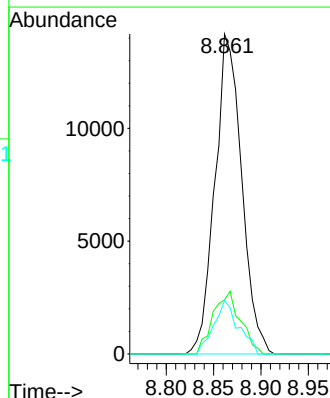
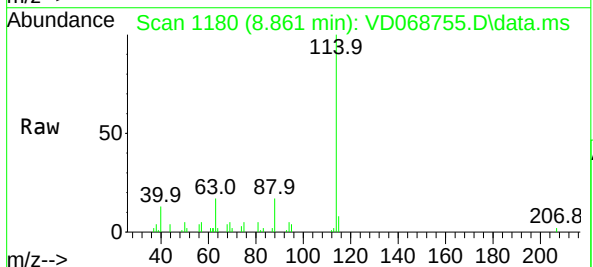
Instrument :
MSVOA_D
ClientSampleId :
RO-124027

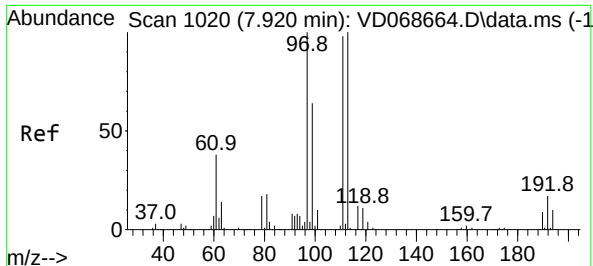
Tgt Ion: 65 Resp: 10922
Ion Ratio Lower Upper
65 100
67 54.2 0.0 106.0



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. -0.006 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Tgt Ion: 114 Resp: 27848
Ion Ratio Lower Upper
114 100
63 16.9 0.0 38.2
88 16.7 0.0 29.4

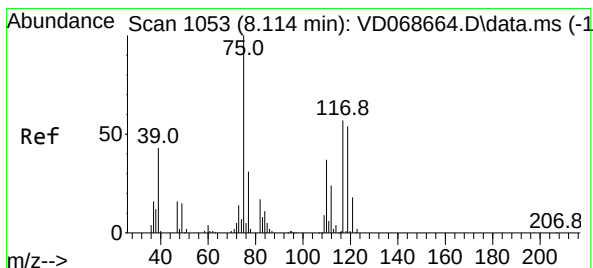
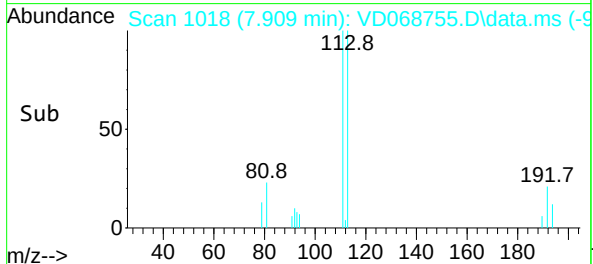
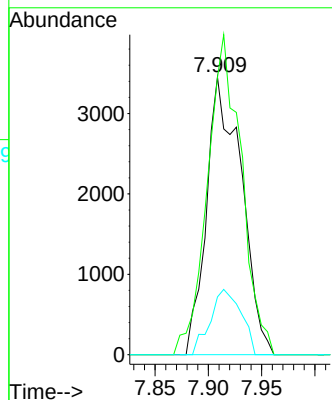
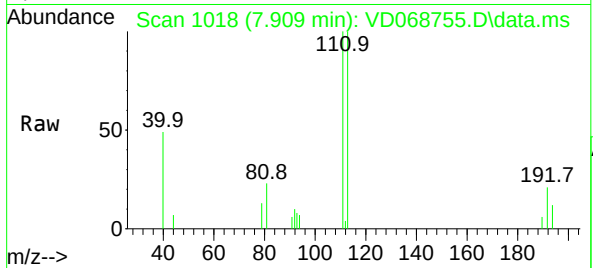




#35
Dibromofluoromethane
Concen: 45.29 ug/l
RT: 7.909 min Scan# 1018
Delta R.T. -0.012 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

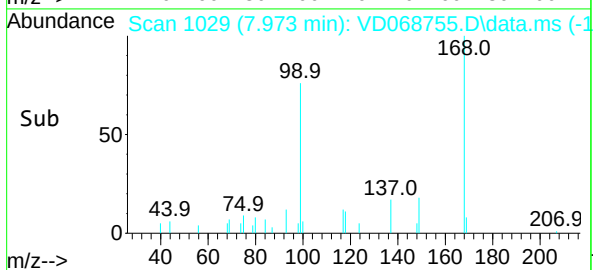
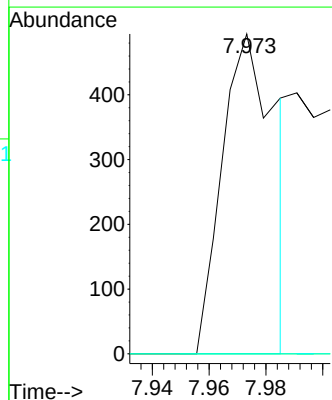
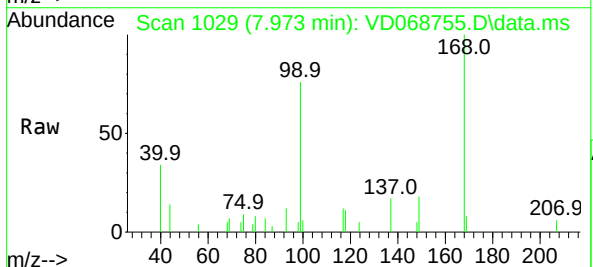
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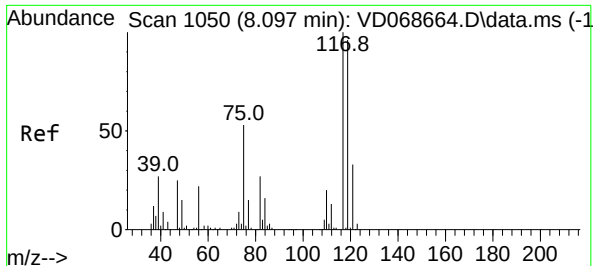
Tgt Ion:113	Resp:	7848	
Ion	Ratio	Lower	Upper
113	100		
111	112.4	82.5	123.7
192	20.9	15.1	22.7



#36
1,1-Dichloropropene
Concen: 2.61 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.141 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

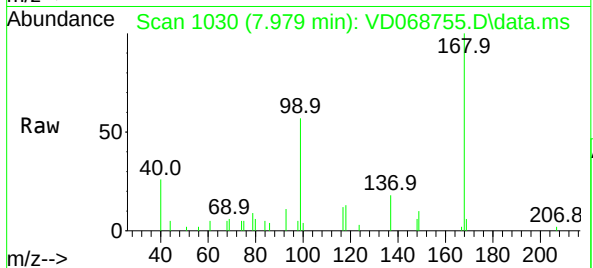
Tgt Ion: 75	Resp:	649	
Ion Ratio	Lower	Upper	
75 100			
110	0.0	18.1	54.4#
77	0.0	24.7	37.1#



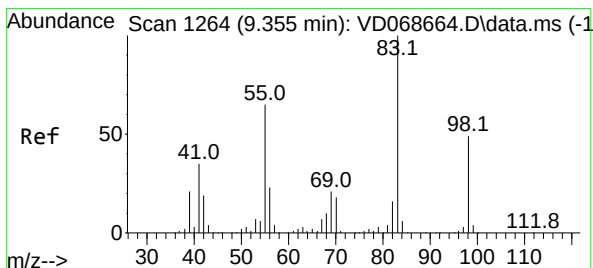
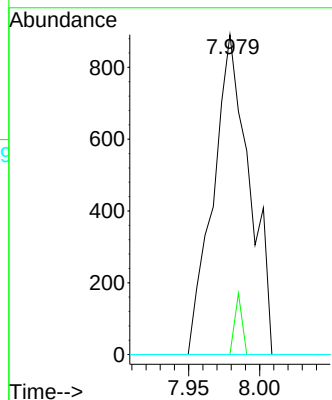
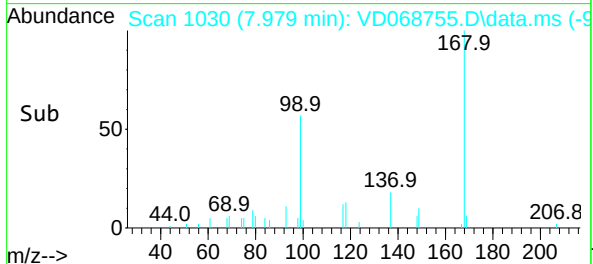


#38
Carbon Tetrachloride
Concen: 6.37 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

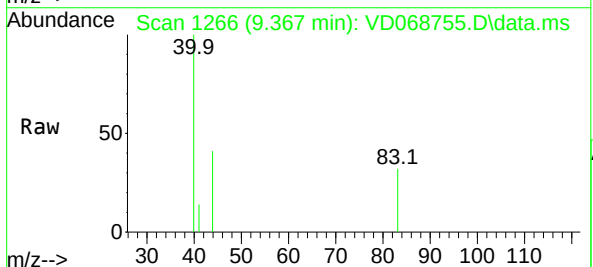
Instrument :
MSVOA_D
ClientSampleId :
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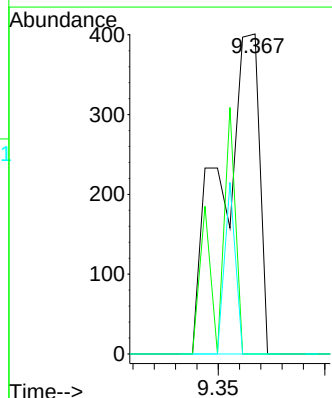
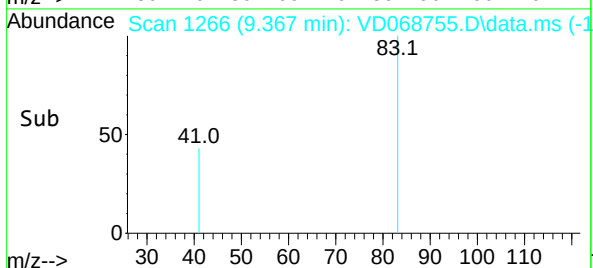
Tgt Ion:117 Resp: 1581
Ion Ratio Lower Upper
117 100
119 0.0 76.6 115.0#
121 0.0 26.1 39.1#

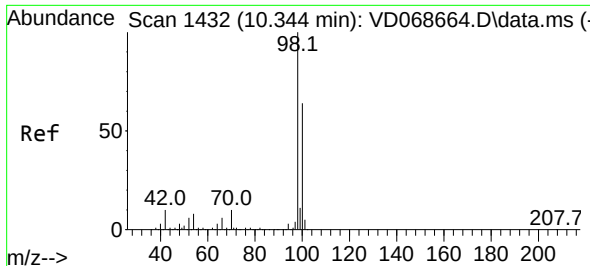


#39
Methylcyclohexane
Concen: 1.64 ug/l
RT: 9.367 min Scan# 1266
Delta R.T. 0.012 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39



Tgt Ion: 83 Resp: 502
Ion Ratio Lower Upper
83 100
55 0.0 51.7 77.5#
98 0.0 38.8 58.2#

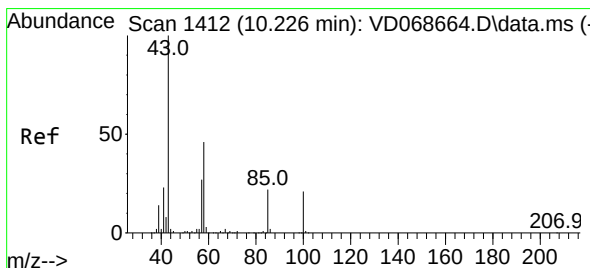
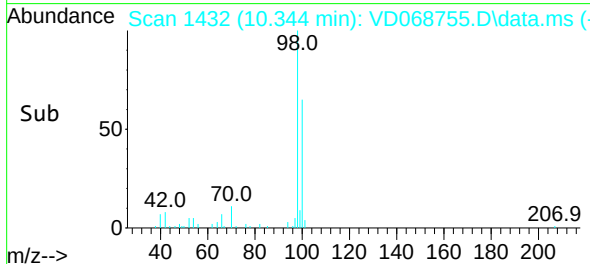
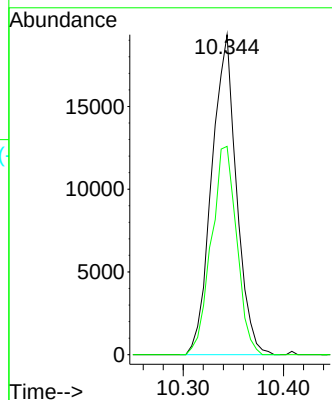
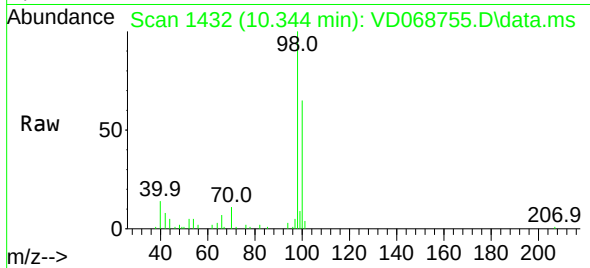




#50
Toluene-d8
Concen: 49.64 ug/l
RT: 10.344 min Scan# 1432
Delta R.T. 0.000 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

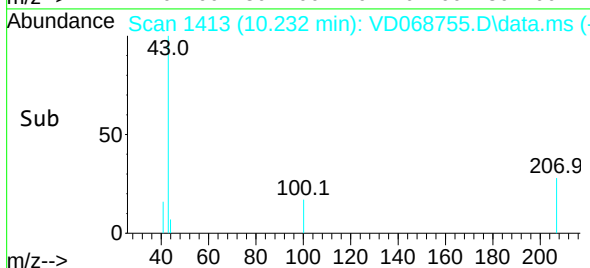
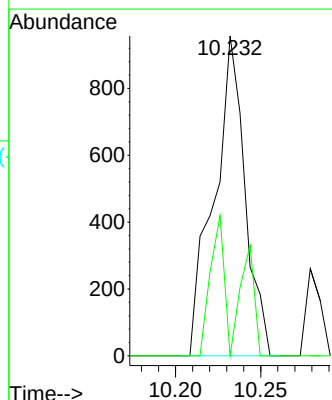
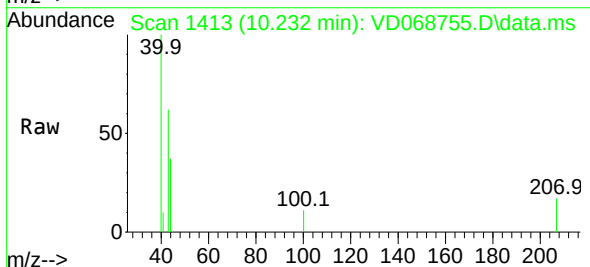
Instrument :
MSVOA_D
ClientSampleId :
RO-124027

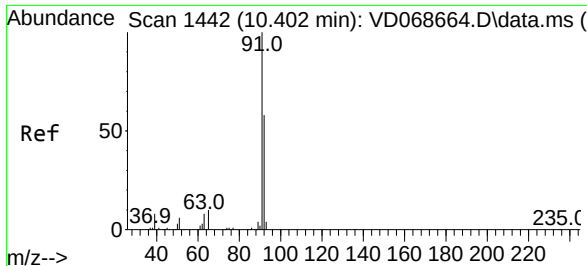
Tgt Ion: 98 Resp: 33160
Ion Ratio Lower Upper
98 100
100 66.6 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 15.44 ug/l
RT: 10.232 min Scan# 1413
Delta R.T. 0.006 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Tgt Ion: 43 Resp: 1210
Ion Ratio Lower Upper
43 100
58 19.6 37.3 55.9#

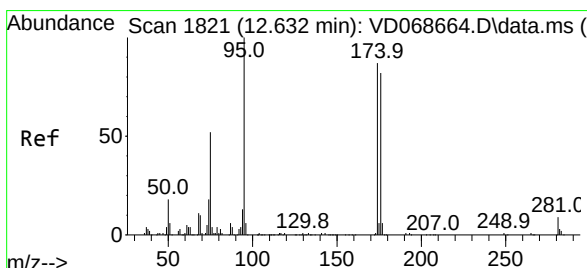
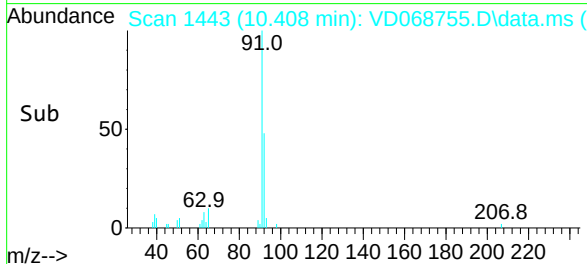
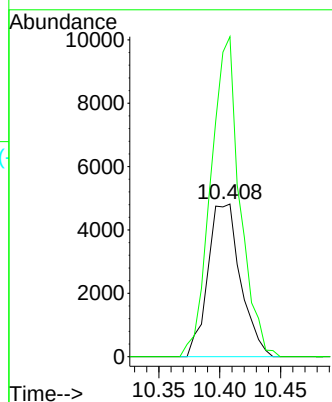
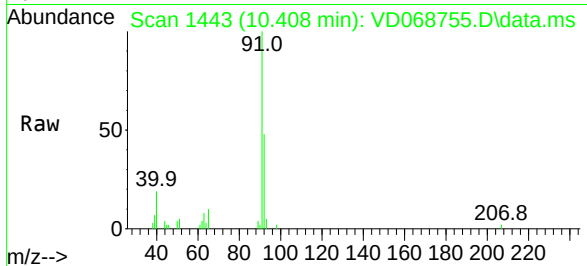




#52
Toluene
Concen: 19.57 ug/l
RT: 10.408 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

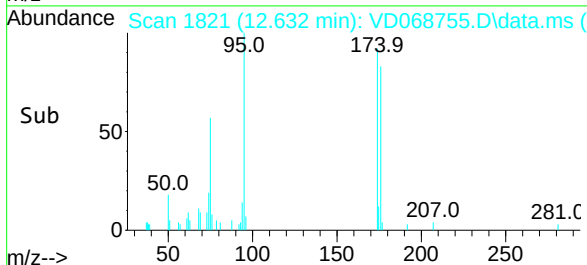
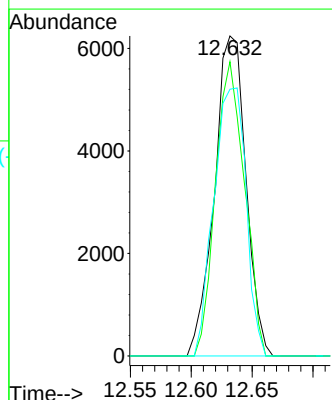
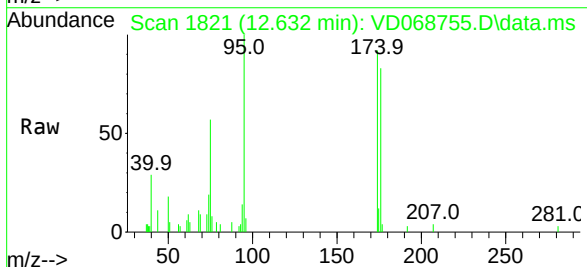
Instrument :
MSVOA_D
ClientSampleId :
RO-124027

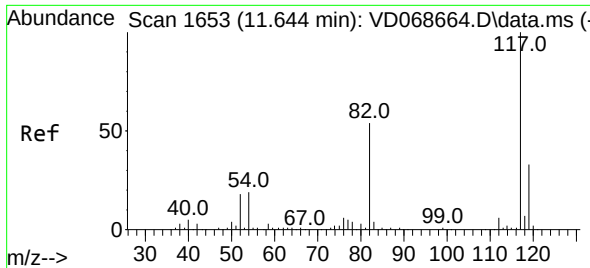
Tgt Ion: 92 Resp: 8988
Ion Ratio Lower Upper
92 100
91 187.5 139.1 208.7



#62
4-Bromofluorobenzene
Concen: 51.97 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.000 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Tgt Ion: 95 Resp: 11256
Ion Ratio Lower Upper
95 100
174 85.0 0.0 168.0
176 85.4 0.0 160.2

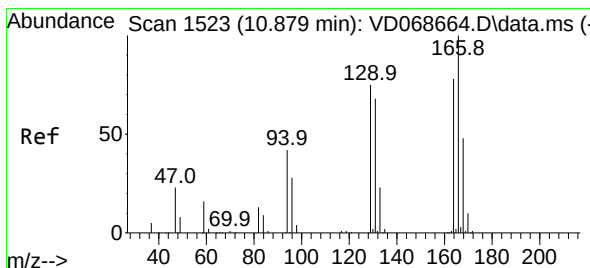
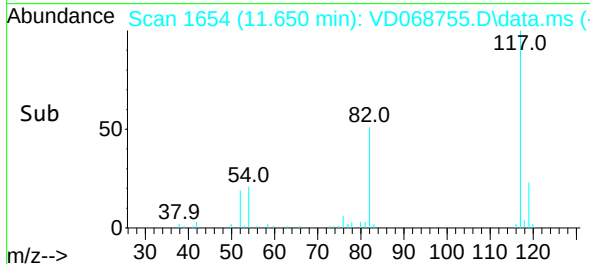
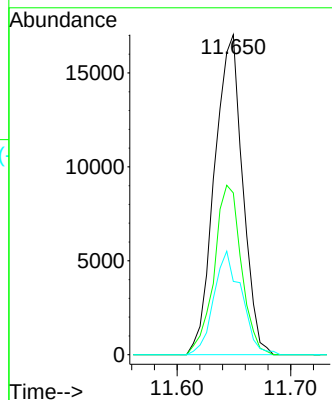
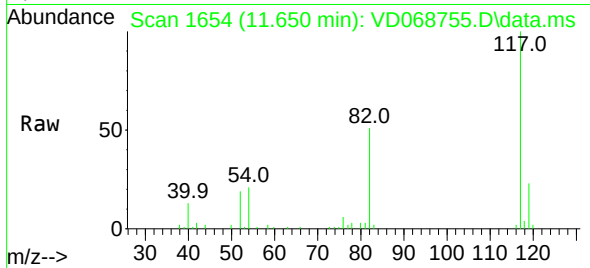




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.650 min Scan# 1654
Delta R.T. 0.006 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

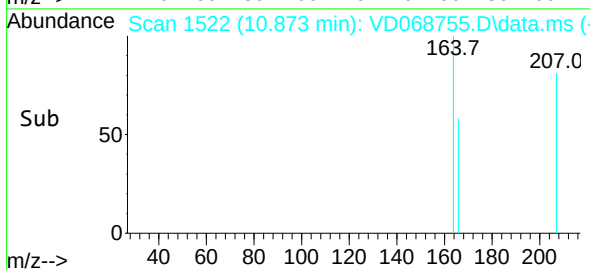
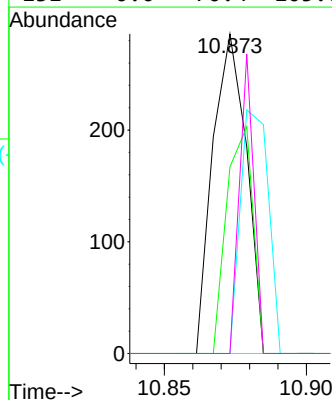
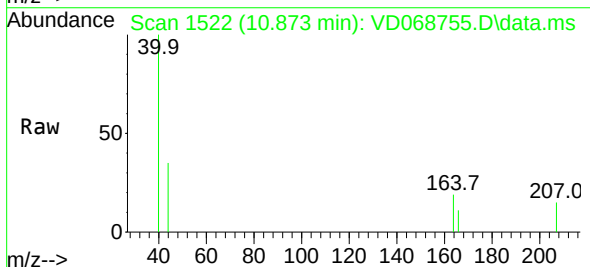
Instrument :
MSVOA_D
ClientSampleId :
RO-124027

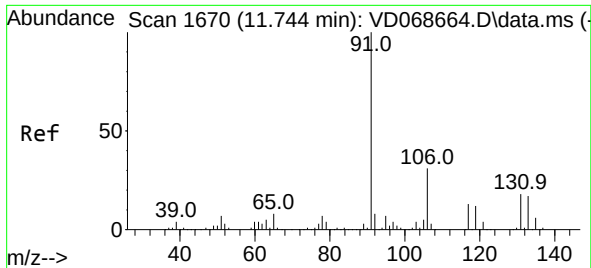
Tgt Ion:117 Resp: 29319
Ion Ratio Lower Upper
117 100
82 50.6 43.5 65.3
119 22.9 26.7 40.1#



#64
Tetrachloroethene
Concen: 1.24 ug/l
RT: 10.873 min Scan# 1522
Delta R.T. -0.006 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Tgt Ion:164 Resp: 235
Ion Ratio Lower Upper
164 100
166 58.4 103.0 154.6#
129 0.0 77.4 116.0#
131 0.0 70.4 105.6#

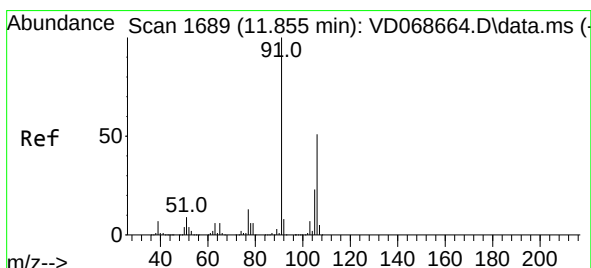
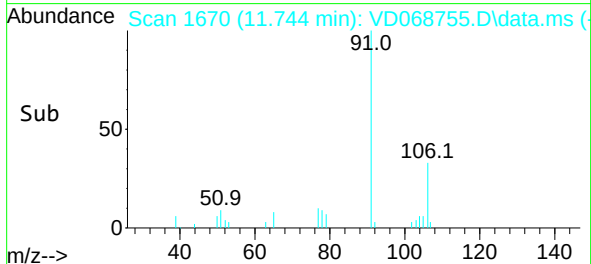
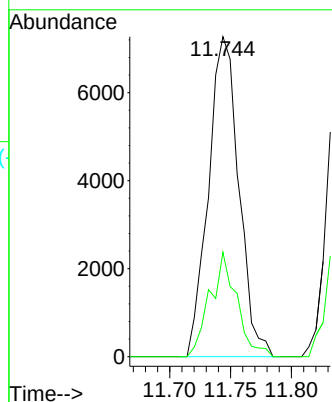
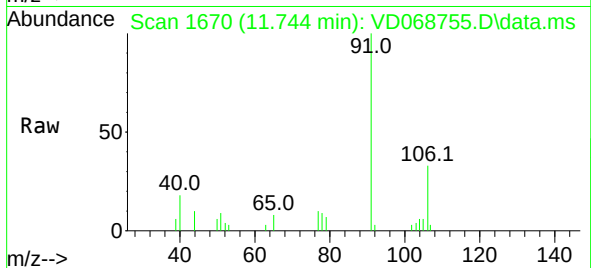




#67
Ethyl Benzene
Concen: 12.54 ug/l
RT: 11.744 min Scan# 1670
Delta R.T. 0.000 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

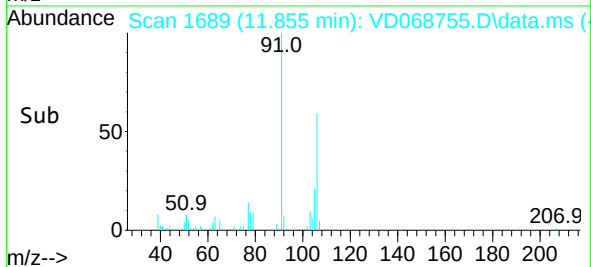
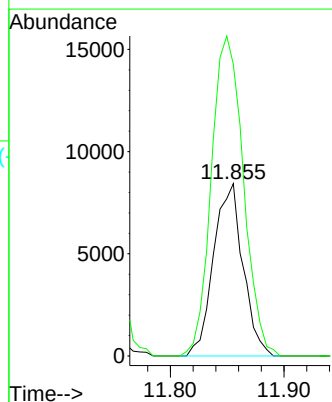
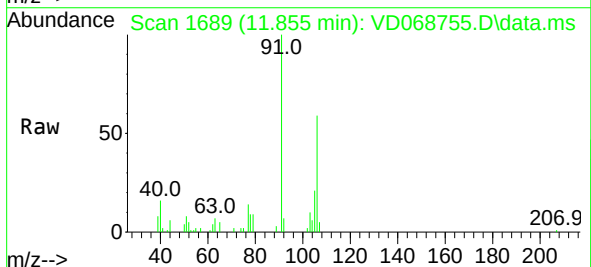
Instrument :
MSVOA_D
ClientSampleId :
RO-124027

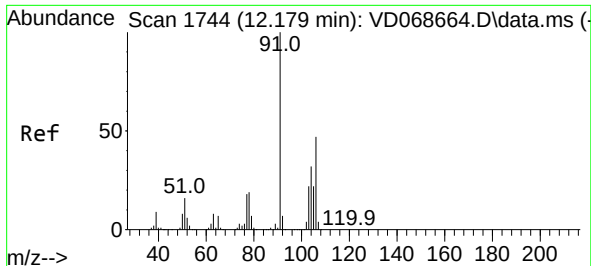
Tgt Ion: 91 Resp: 12627
Ion Ratio Lower Upper
91 100
106 32.7 25.1 37.7



#68
m/p-Xylenes
Concen: 38.61 ug/l
RT: 11.855 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Tgt Ion:106 Resp: 15144
Ion Ratio Lower Upper
106 100
91 202.4 158.6 238.0

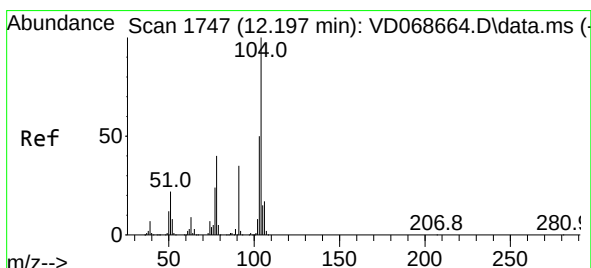
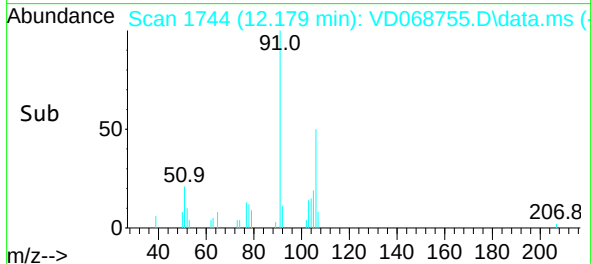
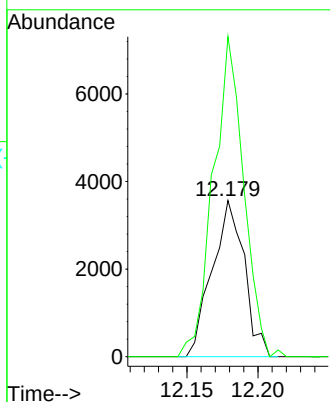
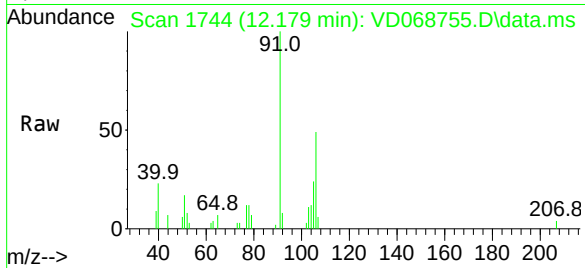




#69
o-Xylene
Concen: 15.41 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

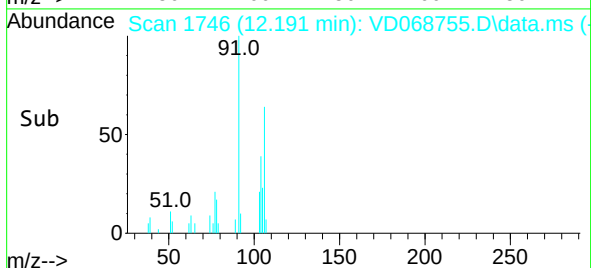
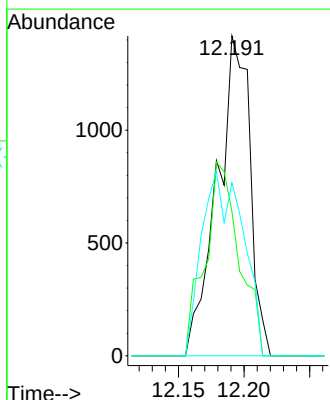
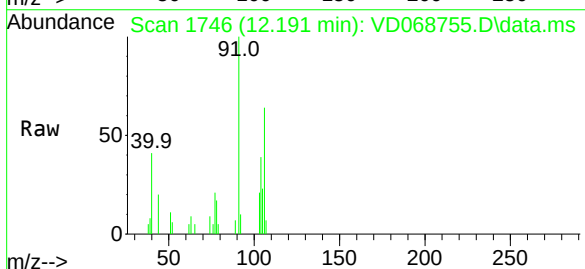
Instrument :
MSVOA_D
ClientSampleId :
RO-124027

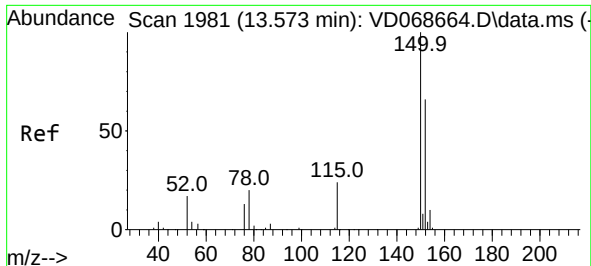
Tgt Ion:106 Resp: 5602
Ion Ratio Lower Upper
106 100
91 194.2 105.0 315.0



#70
Styrene
Concen: 3.95 ug/l
RT: 12.191 min Scan# 1746
Delta R.T. -0.006 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Tgt Ion:104 Resp: 2470
Ion Ratio Lower Upper
104 100
78 63.1 36.9 55.3#
103 72.3 44.3 66.5#

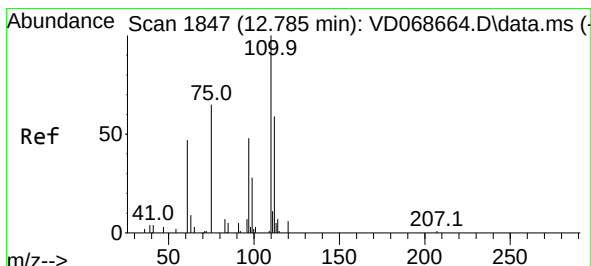
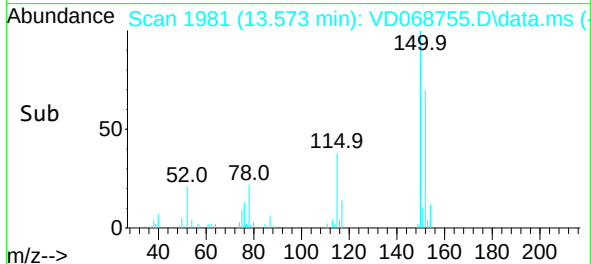
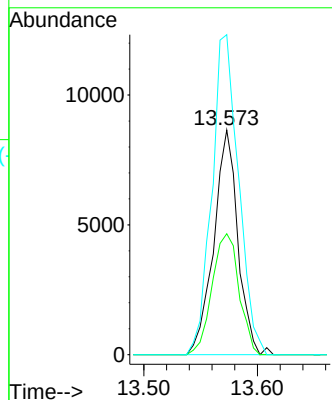
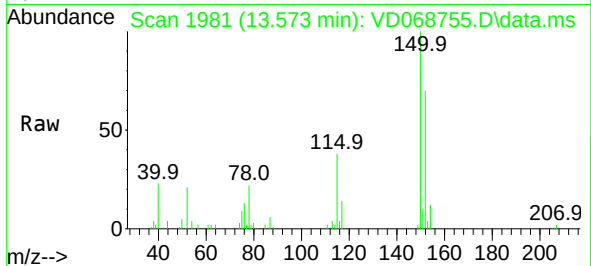




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. 0.000 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

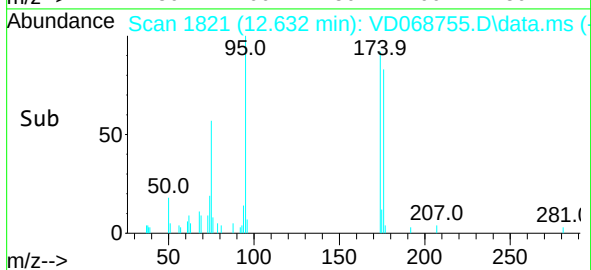
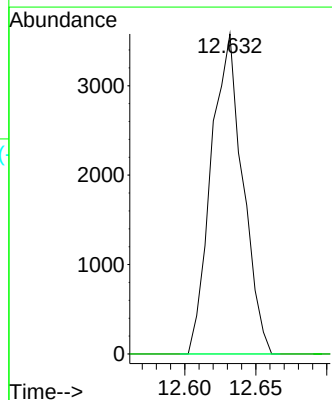
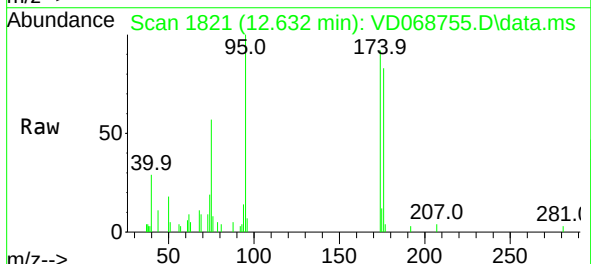
Instrument :
MSVOA_D
ClientSampleId :
RO-124027

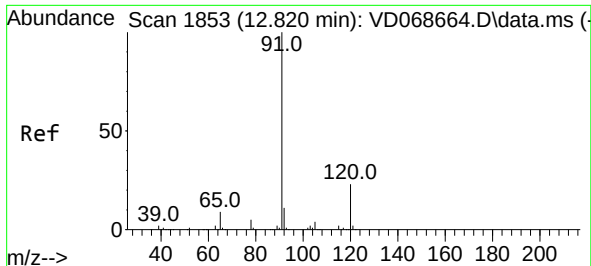
Tgt Ion:152 Resp: 12767
Ion Ratio Lower Upper
152 100
115 60.1 29.3 87.8
150 157.9 0.0 347.6



#76
1,2,3-Trichloropropane
Concen: 52.14 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.153 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Tgt Ion: 75 Resp: 5541
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0

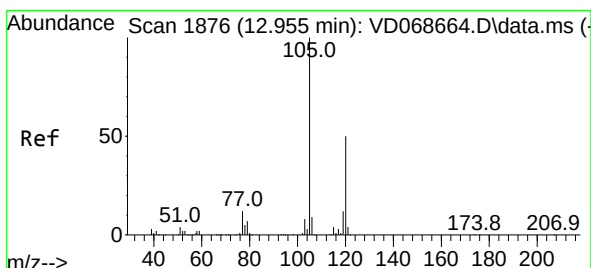
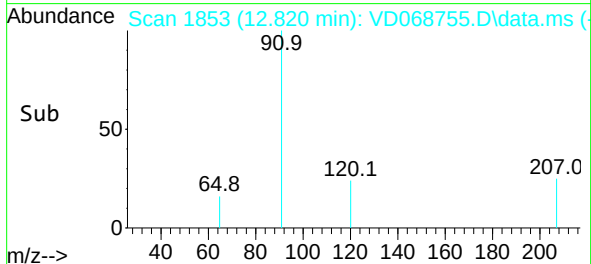
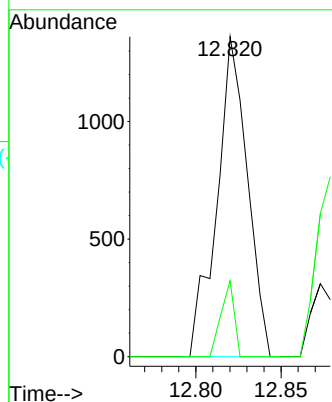
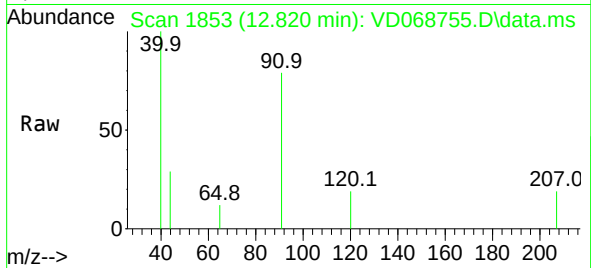




#78
n-propylbenzene
Concen: 1.63 ug/l
RT: 12.820 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

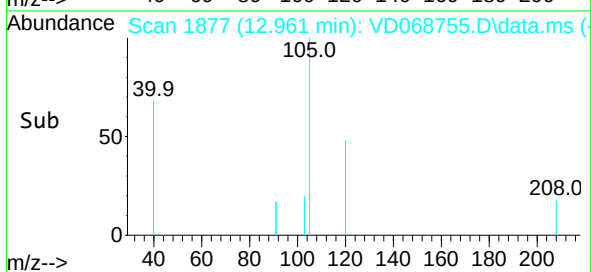
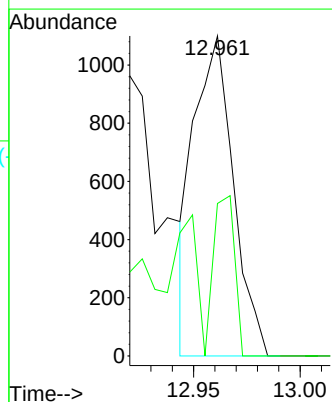
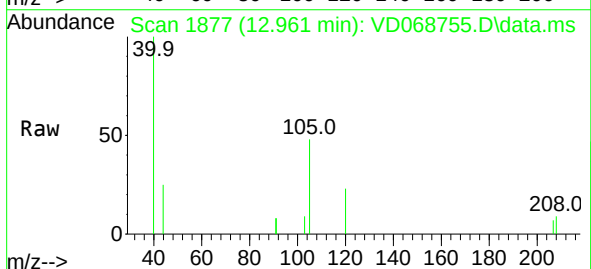
Instrument :
MSVOA_D
ClientSampleId :
RO-124027

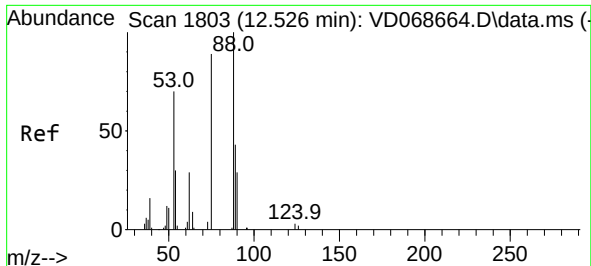
Tgt Ion: 91 Resp: 1702
Ion Ratio Lower Upper
91 100
120 10.2 11.4 34.2#



#80
1,3,5-Trimethylbenzene
Concen: 1.99 ug/l
RT: 12.961 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

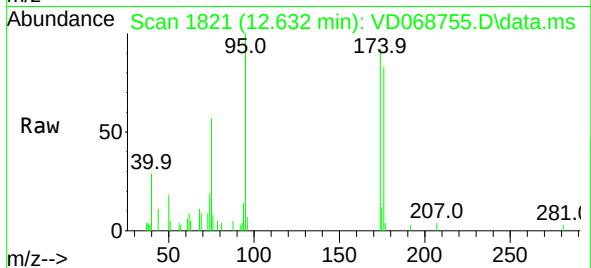
Tgt Ion: 105 Resp: 1409
Ion Ratio Lower Upper
105 100
120 26.9 24.9 74.7



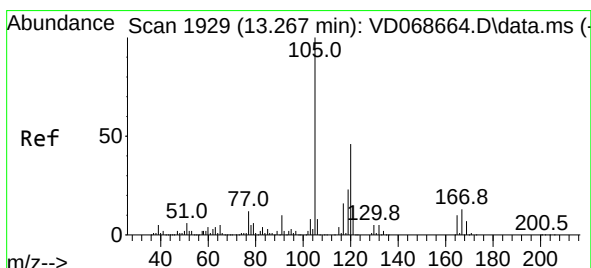
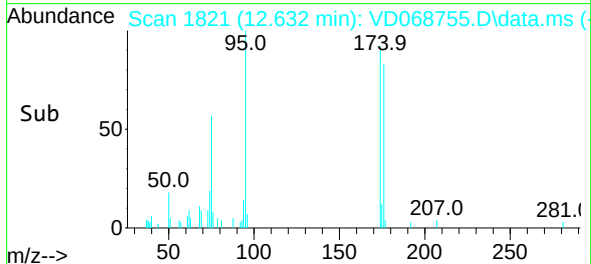
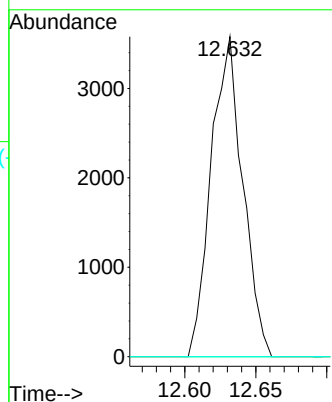


#81
trans-1,4-Dichloro-2-butene
Concen: 118.64 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Instrument :
MSVOA_D
ClientSampleId :
RO-124027

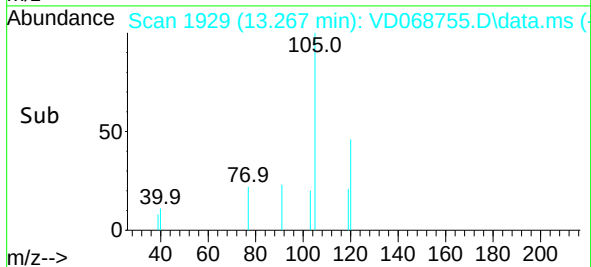
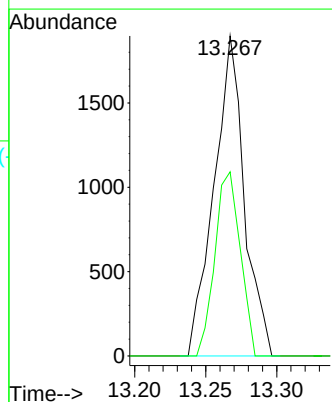
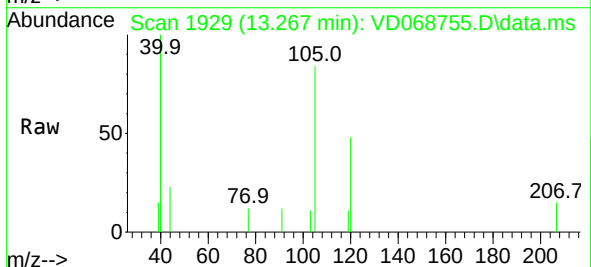


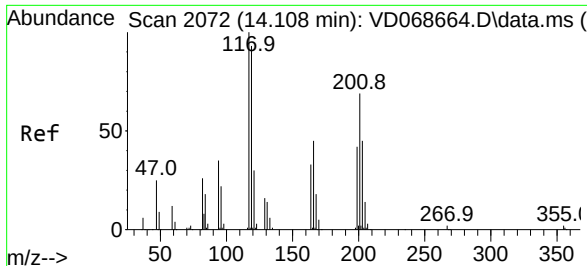
Tgt Ion: 75 Resp: 5541
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.0 36.6 54.8#



#84
1,2,4-Trimethylbenzene
Concen: 3.83 ug/l
RT: 13.267 min Scan# 1929
Delta R.T. 0.000 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Tgt Ion: 105 Resp: 2810
Ion Ratio Lower Upper
105 100
120 48.1 22.6 67.7

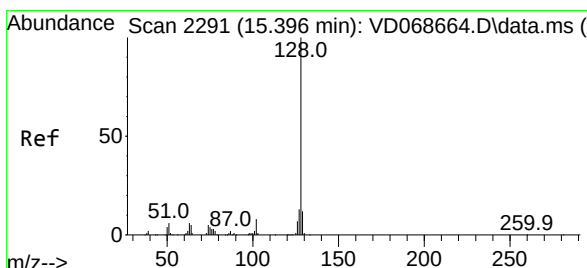
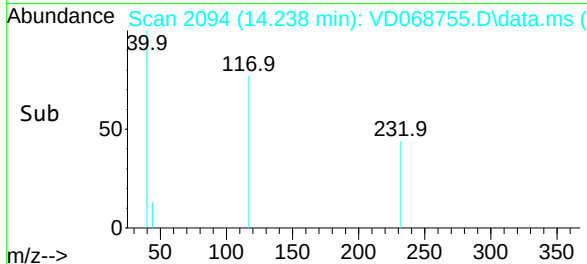
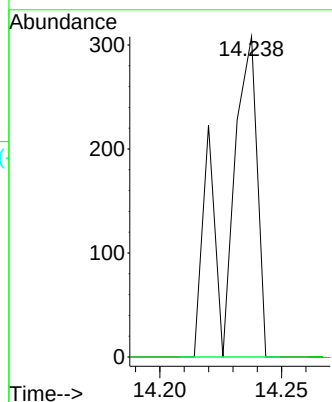
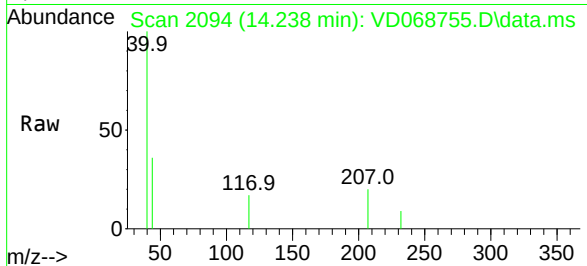




#90
Hexachloroethane
Concen: 1.86 ug/l
RT: 14.238 min Scan# 2094
Delta R.T. 0.129 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Instrument :
MSVOA_D
ClientSampleId :
RO-124027

Tgt Ion:117 Resp: 268
Ion Ratio Lower Upper
117 100
201 0.0 35.4 106.2#



#95
Naphthalene
Concen: 2.99 ug/l
RT: 15.396 min Scan# 2291
Delta R.T. 0.000 min
Lab File: VD068755.D
Acq: 01 Apr 2021 13:39

Tgt Ion:128 Resp: 1184
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.9 13.3#

