

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD081121\
 Data File : VD070026.D
 Acq On : 11 Aug 2021 16:32
 Operator : VA/SY
 Sample : M3346-01
 Misc : 5.07G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 12 05:30:26 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072221S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 23 04:51:13 2021
 Response via : Initial Calibration

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

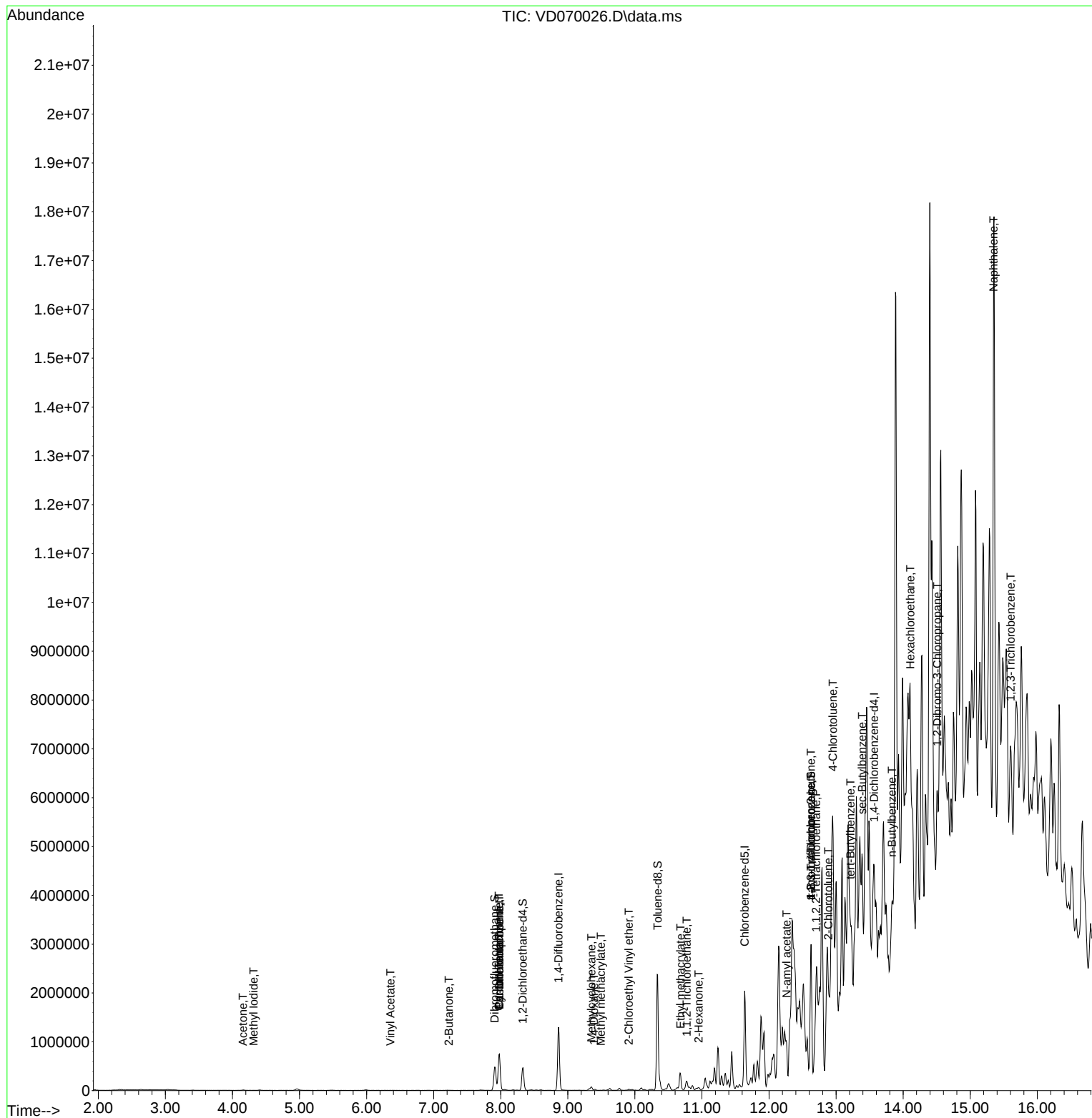
Internal Standards						
1) Pentafluorobenzene	7.979	168	523649	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	1107532	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	1132105	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	573093	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	367300	60.989	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 121.980%	
35) Dibromofluoromethane	7.909	113	365384	52.333	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.660%	
50) Toluene-d8	10.338	98	1505826	55.934	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 111.860%	
62) 4-Bromofluorobenzene	12.626	95	664443	73.849	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 147.700%#	
Target Compounds						
					Qvalue	
5) Bromomethane	2.779	94	2478	Below Cal	#	74
10) Methyl Iodide	4.315	142	1107	3.621	ug/l #	58
16) Acetone	4.156	43	14338	13.179	ug/l #	71
20) Methylene Chloride	4.956	84	24715	Below Cal		97
23) Vinyl Acetate	6.356	43	142	20.362	ug/l #	71
25) 2-Butanone	7.226	43	3911	2.651	ug/l #	84
31) Cyclohexane	7.979	56	14263	1.212	ug/l #	1
36) 1,1-Dichloropropene	7.979	75	47436	3.969	ug/l #	50
38) Carbon Tetrachloride	7.973	117	56282	5.155	ug/l #	18
39) Methylcyclohexane	9.350	83	25512	1.864	ug/l	88
48) Methyl methacrylate	9.491	41	1001	2.974	ug/l #	13
49) 1,4-Dioxane	9.391	88	74	1.567	ug/l #	1
55) 1,1,2-Trichloroethane	10.773	97	61499	9.739	ug/l #	22
56) Ethyl methacrylate	10.679	69	37111	8.279	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.908	63	62	20.887	ug/l #	48
59) 2-Hexanone	10.950	43	20221	7.528	ug/l #	31
74) N-amyl acetate	12.261	43	224111	26.460	ug/l #	39
75) 1,1,2,2-Tetrachloroethane	12.702	83	127102	15.456	ug/l #	65
76) 1,2,3-Trichloropropane	12.626	75	259767	42.644	ug/l #	1
79) 2-Chlorotoluene	12.885	91	34082	1.109	ug/l #	43
81) trans-1,4-Dichloro-2-b...	12.626	75	259767	129.370	ug/l #	23
82) 4-Chlorotoluene	12.949	91	38219	1.190	ug/l	72
83) tert-Butylbenzene	13.214	119	156552	5.466	ug/l	91
85) sec-Butylbenzene	13.391	105	433413	9.573	ug/l #	38
89) n-Butylbenzene	13.832	91	233988	6.446	ug/l	98
90) Hexachloroethane	14.108	117	84605	10.859	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.508	75	5811	4.907	ug/l #	7
95) Naphthalene	15.349	128	105942	10.089	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.602	180	26822	3.421	ug/l #	12

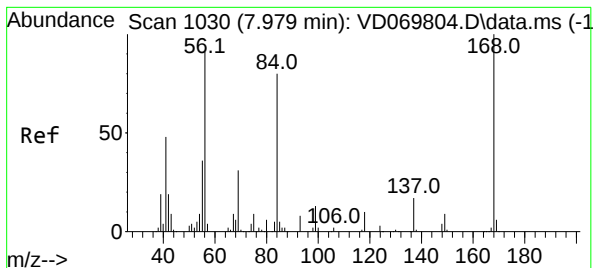
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 23 04:51:13 2021
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. 0.000 min

Lab File: VD070026.D

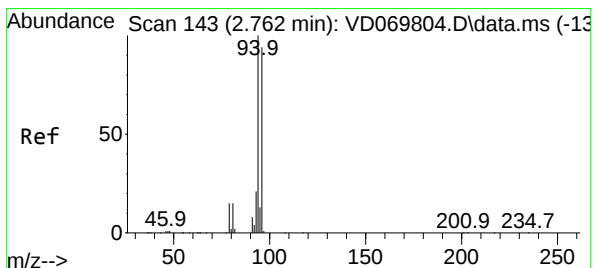
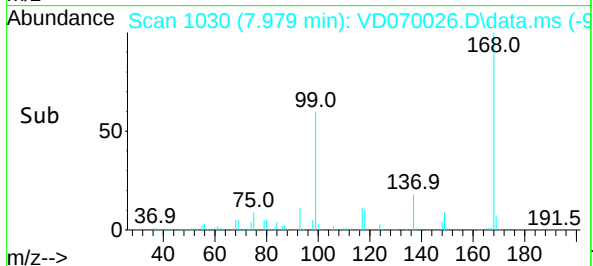
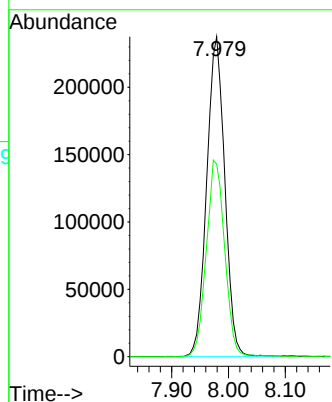
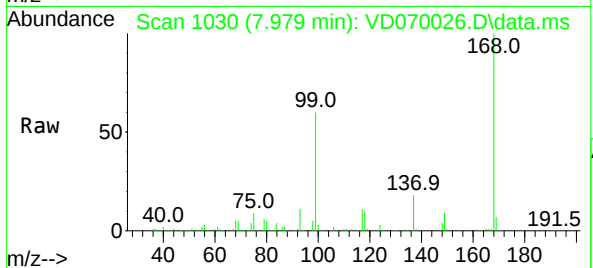
Acq: 11 Aug 2021 16:32

Tgt Ion:168 Resp: 523649

Ion Ratio Lower Upper

168 100

99 60.0 51.1 76.7



#5

Bromomethane

Concen: Below Cal

RT: 2.779 min Scan# 146

Delta R.T. 0.017 min

Lab File: VD070026.D

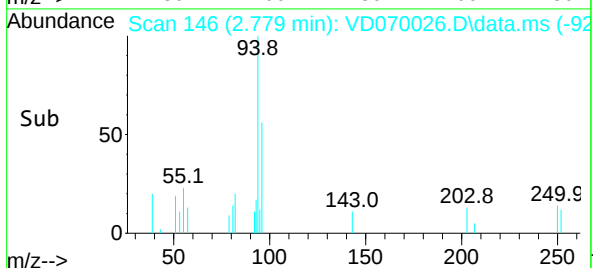
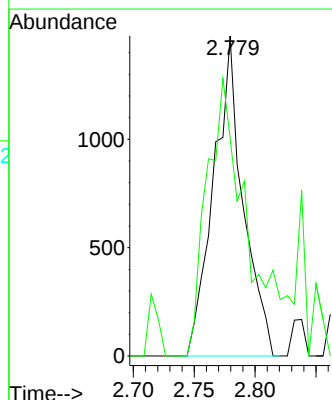
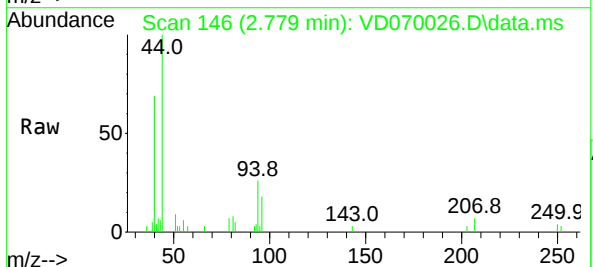
Acq: 11 Aug 2021 16:32

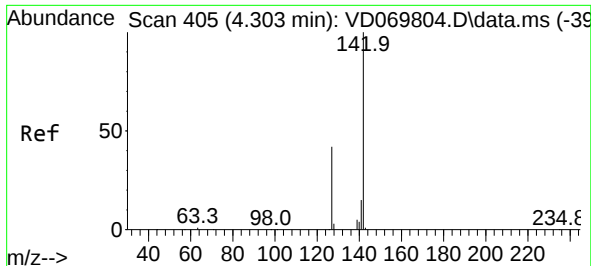
Tgt Ion: 94 Resp: 2478

Ion Ratio Lower Upper

94 100

96 68.2 74.8 112.2#

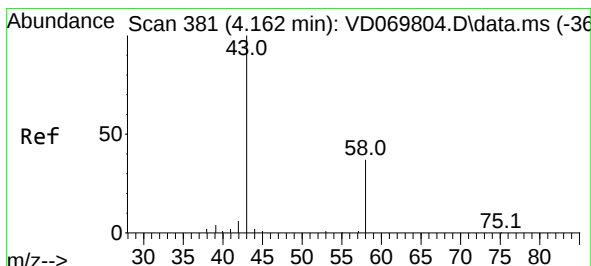
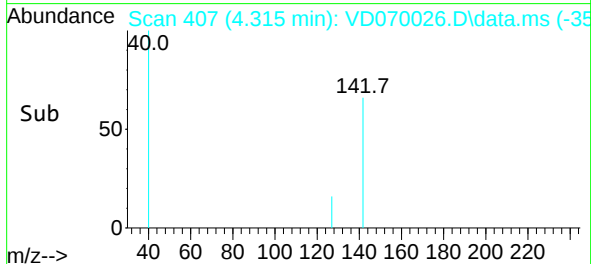
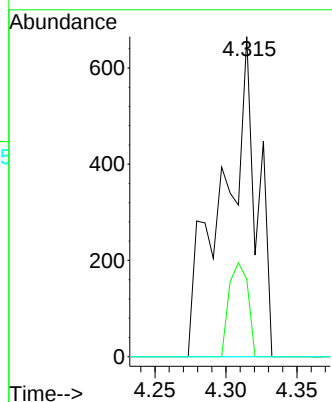
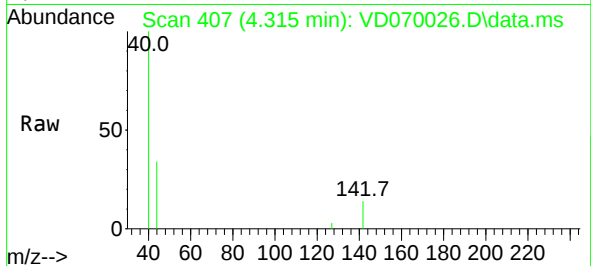




#10
Methyl Iodide
Concen: 3.621 ug/l
RT: 4.315 min Scan# 407
Delta R.T. 0.012 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

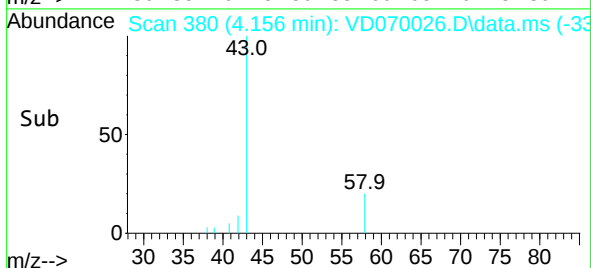
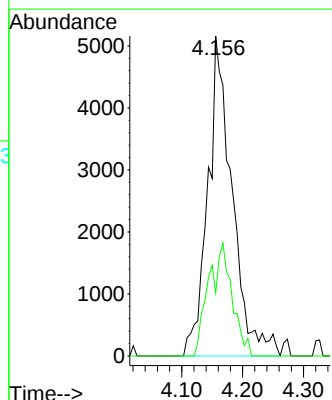
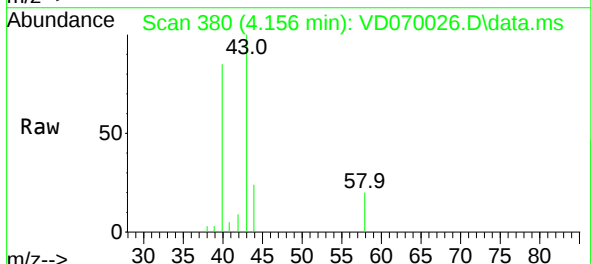
Instrument :
MSVOA_D
ClientSampled :

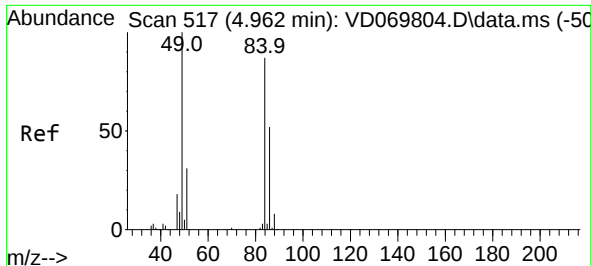
Tgt Ion:142 Resp: 1107
Ion Ratio Lower Upper
142 100
127 16.4 35.7 53.5#
141 0.0 12.0 18.0#



#16
Acetone
Concen: 13.179 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.006 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Tgt Ion: 43 Resp: 14338
Ion Ratio Lower Upper
43 100
58 19.7 29.4 44.0#





#20

Methylene Chloride

Concen: Below Cal

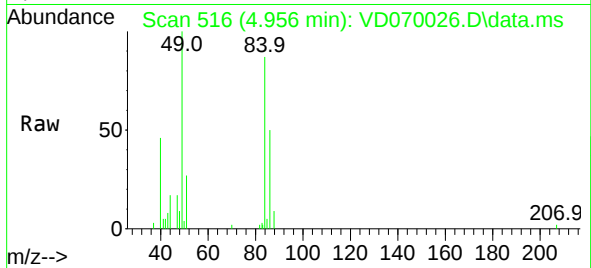
RT: 4.956 min Scan# 516

Delta R.T. -0.006 min

Lab File: VD070026.D

Acq: 11 Aug 2021 16:32

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 84 Resp: 24715

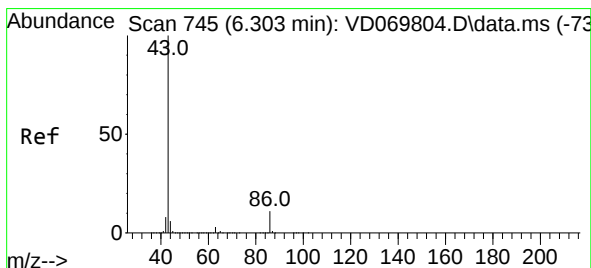
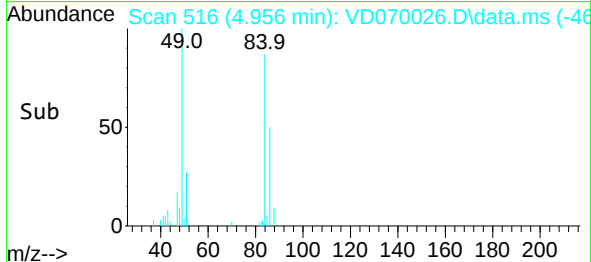
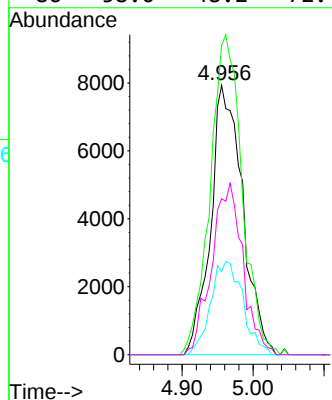
Ion Ratio Lower Upper

84 100

49 114.9 92.4 138.6

51 30.9 28.5 42.7

86 58.0 48.2 72.4



#23

Vinyl Acetate

Concen: 20.362 ug/l

RT: 6.356 min Scan# 754

Delta R.T. 0.053 min

Lab File: VD070026.D

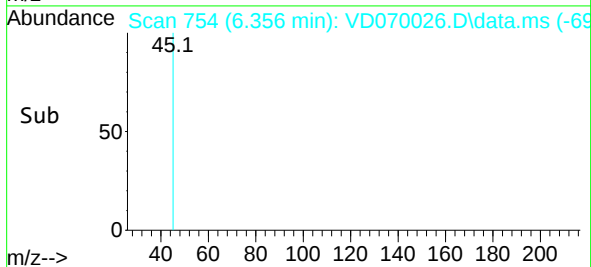
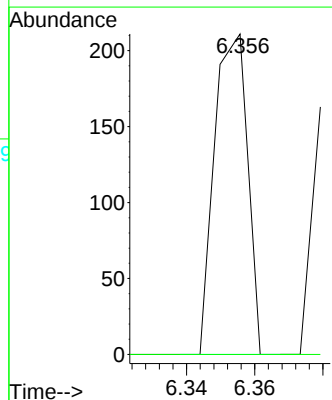
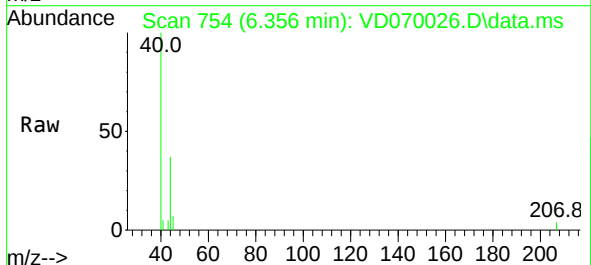
Acq: 11 Aug 2021 16:32

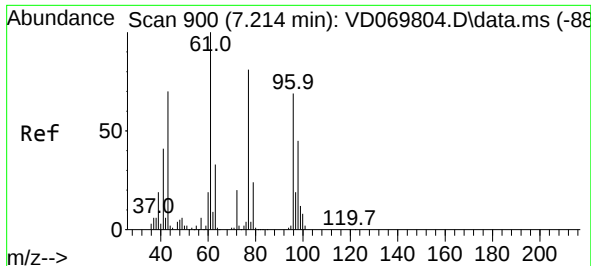
Tgt Ion: 43 Resp: 142

Ion Ratio Lower Upper

43 100

86 0.0 8.6 13.0#

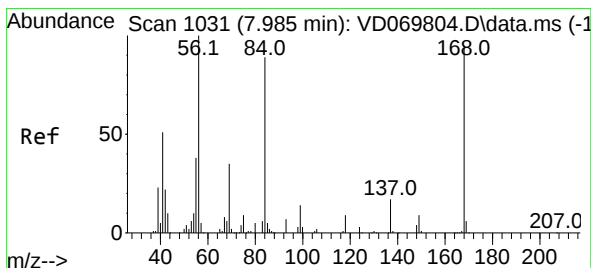
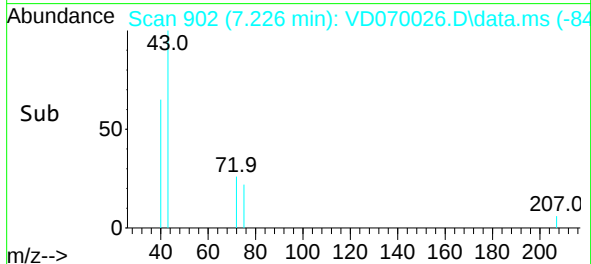
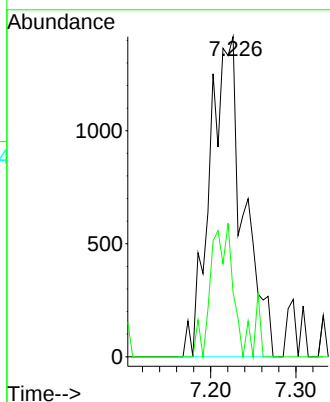
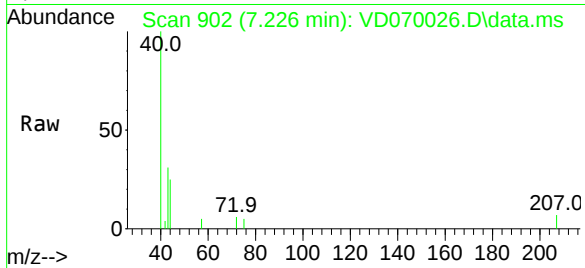




#25
2-Butanone
Concen: 2.651 ug/l
RT: 7.226 min Scan# 902
Delta R.T. 0.012 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

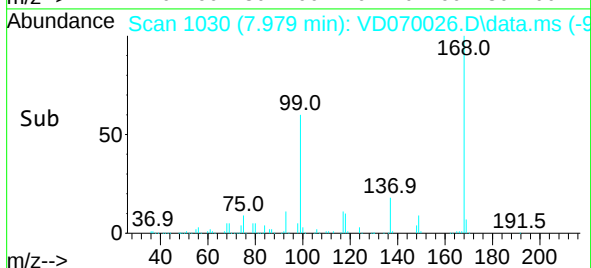
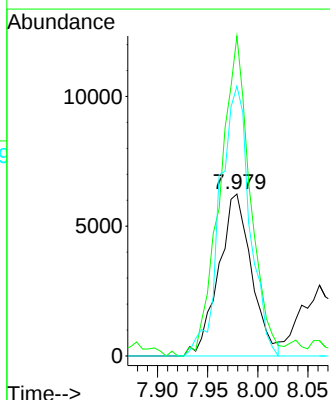
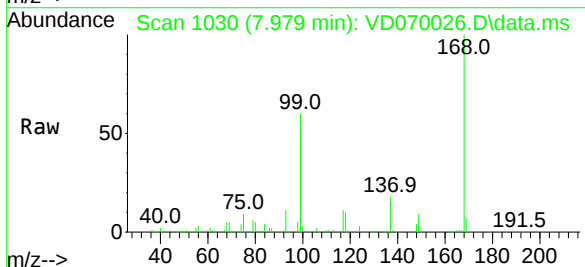
Instrument :
MSVOA_D
ClientSampled :

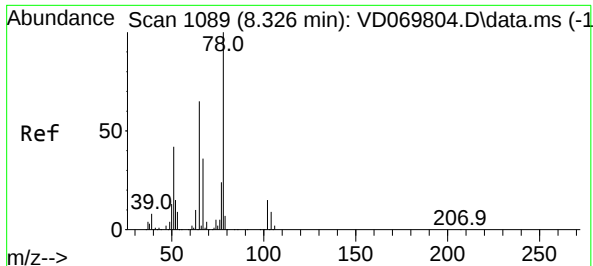
Tgt Ion: 43 Resp: 3911
Ion Ratio Lower Upper
43 100
72 20.1 22.8 34.2#



#31
Cyclohexane
Concen: 1.212 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Tgt Ion: 56 Resp: 14263
Ion Ratio Lower Upper
56 100
69 197.7 27.9 41.9#
84 166.6 71.4 107.2#

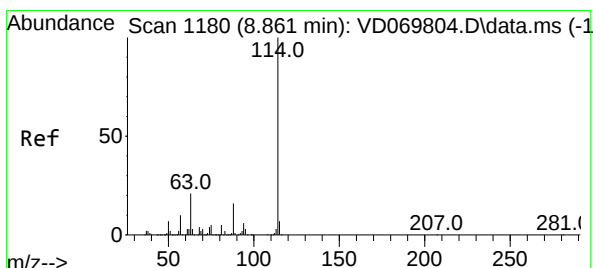
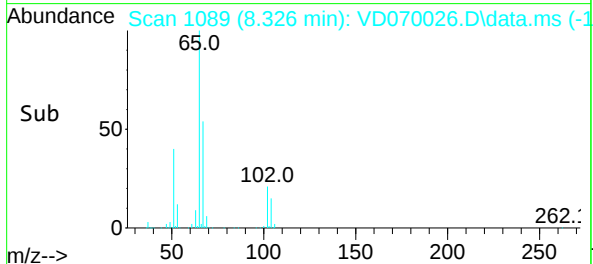
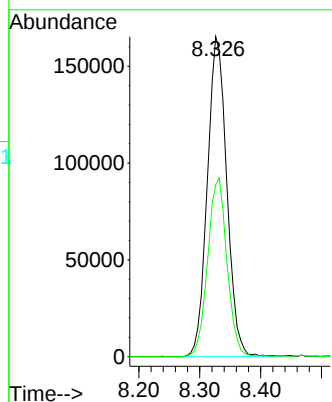
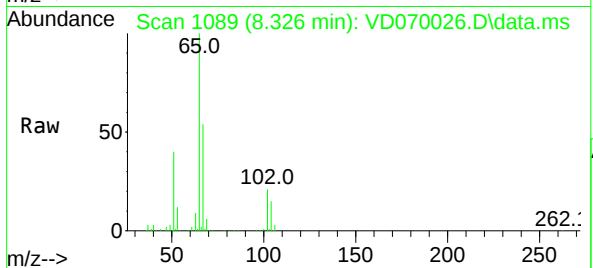




#33
1,2-Dichloroethane-d4
Concen: 60.989 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

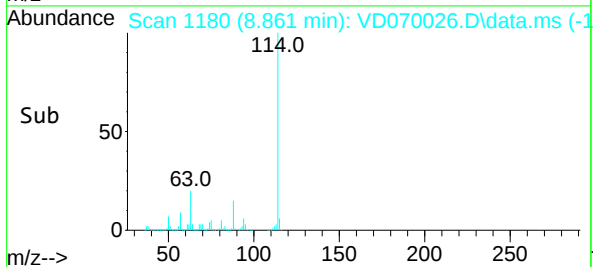
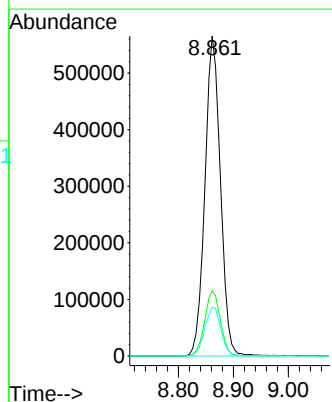
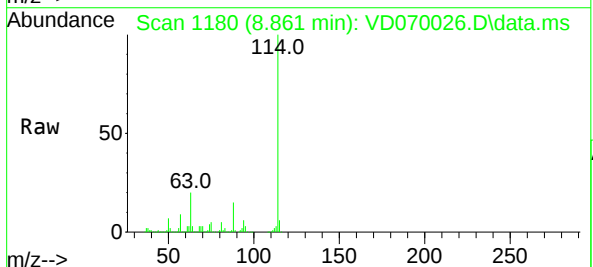
Instrument :
MSVOA_D
ClientSampleId :

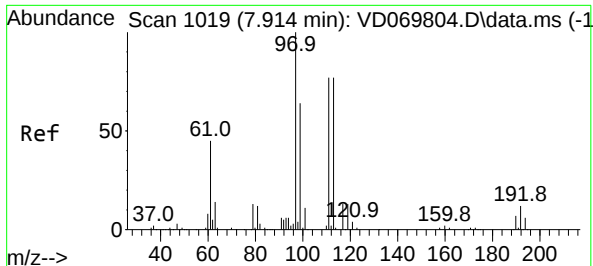
Tgt Ion: 65 Resp: 367300
Ion Ratio Lower Upper
65 100
67 55.4 0.0 111.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Tgt Ion: 114 Resp: 1107532
Ion Ratio Lower Upper
114 100
63 20.3 0.0 41.6
88 15.3 0.0 31.4



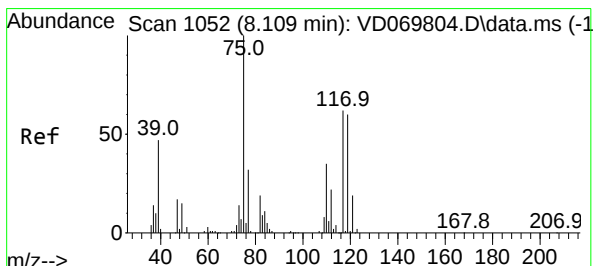
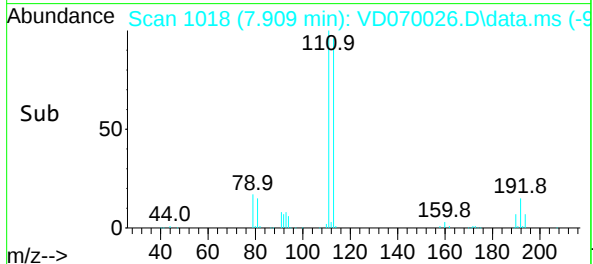
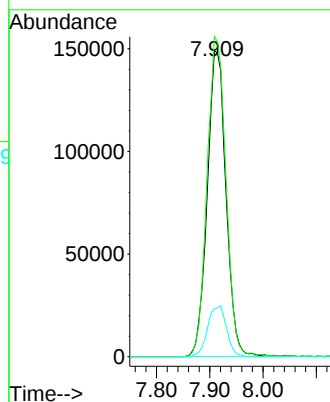
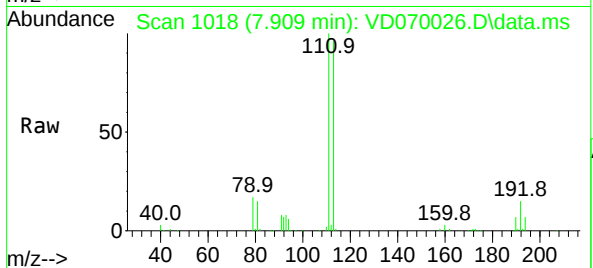


#35

Dibromofluoromethane
Concen: 52.333 ug/l
RT: 7.909 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Instrument :
MSVOA_D
ClientSampleId :

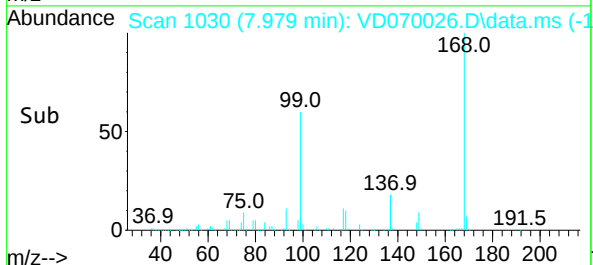
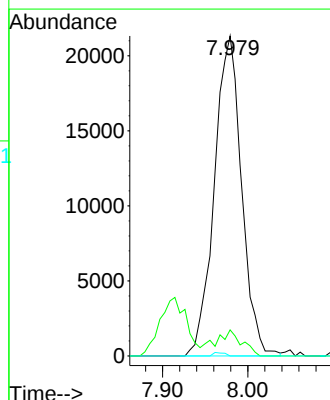
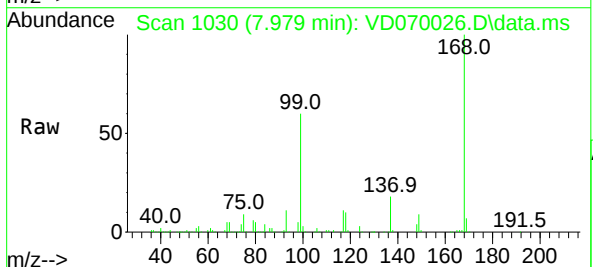
Tgt Ion:113 Resp: 365384
Ion Ratio Lower Upper
113 100
111 105.4 80.5 120.7
192 16.7 12.6 19.0

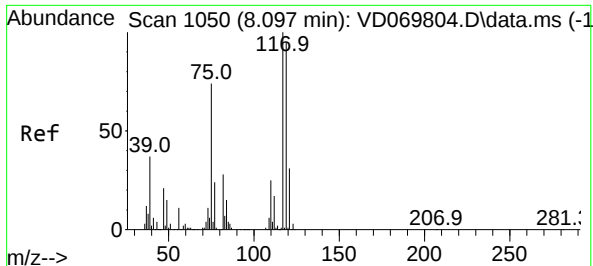


#36

1,1-Dichloropropene
Concen: 3.969 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.129 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

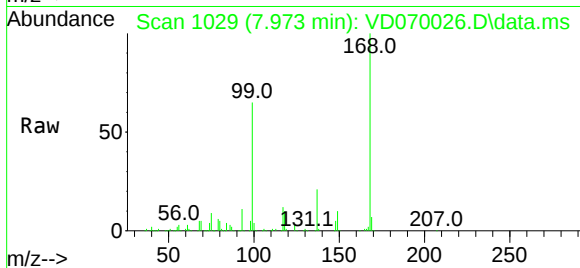
Tgt Ion: 75 Resp: 47436
Ion Ratio Lower Upper
75 100
110 7.9 16.9 50.7#
77 0.5 24.9 37.3#



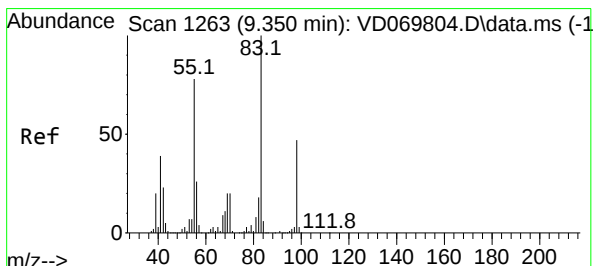
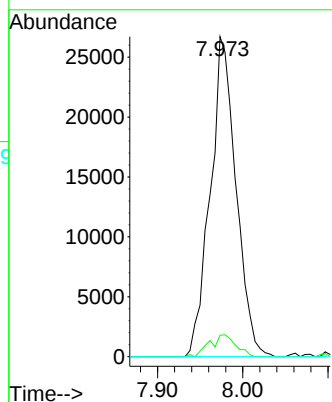
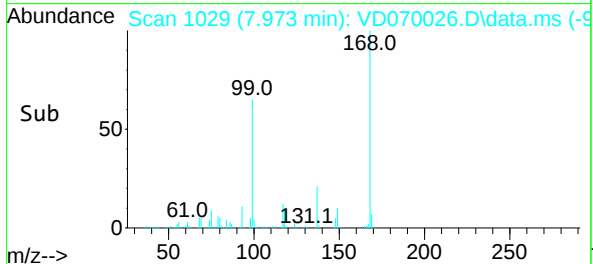


#38
Carbon Tetrachloride
Concen: 5.155 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

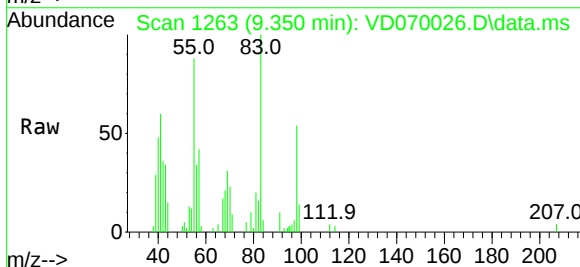
Instrument :
MSVOA_D
ClientSampleId :



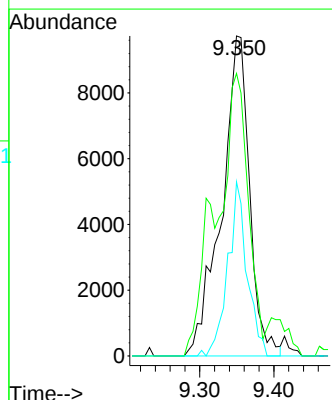
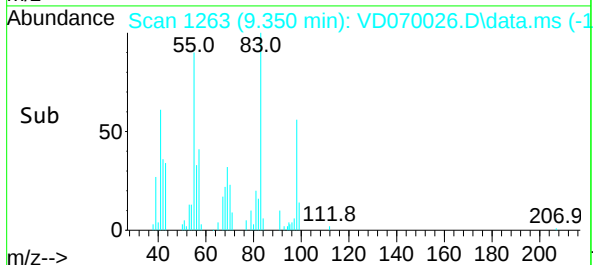
Tgt Ion:117 Resp: 56282
Ion Ratio Lower Upper
117 100
119 6.7 76.2 114.2#
121 0.0 24.5 36.7#

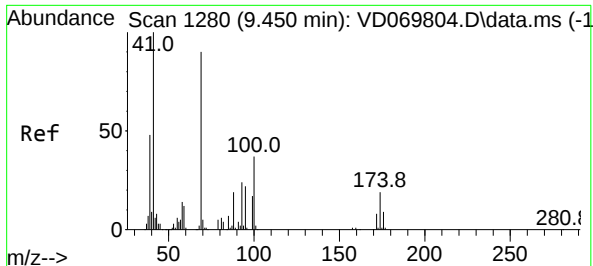


#39
Methylcyclohexane
Concen: 1.864 ug/l
RT: 9.350 min Scan# 1263
Delta R.T. 0.000 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32



Tgt Ion: 83 Resp: 25512
Ion Ratio Lower Upper
83 100
55 88.3 62.2 93.2
98 54.4 37.8 56.8





#48

Methyl methacrylate

Concen: 2.974 ug/l

RT: 9.491 min Scan# 1287

Delta R.T. 0.041 min

Lab File: VD070026.D

Acq: 11 Aug 2021 16:32

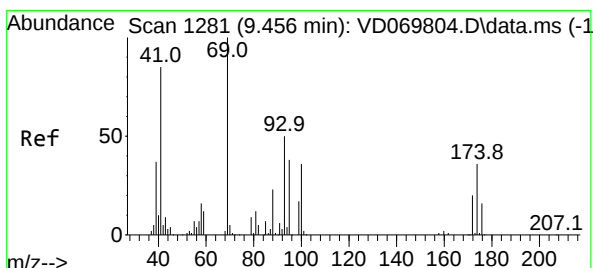
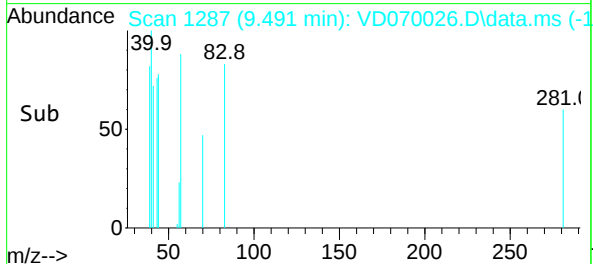
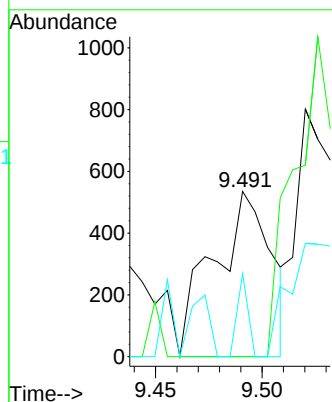
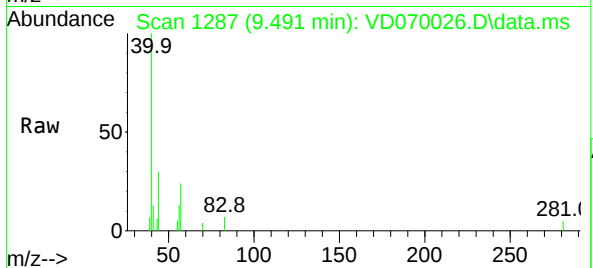
Tgt Ion: 41 Resp: 1001

Ion Ratio Lower Upper

41 100

69 0.0 73.4 110.2#

39 0.0 36.6 55.0#



#49

1,4-Dioxane

Concen: 1.567 ug/l

RT: 9.391 min Scan# 1270

Delta R.T. -0.065 min

Lab File: VD070026.D

Acq: 11 Aug 2021 16:32

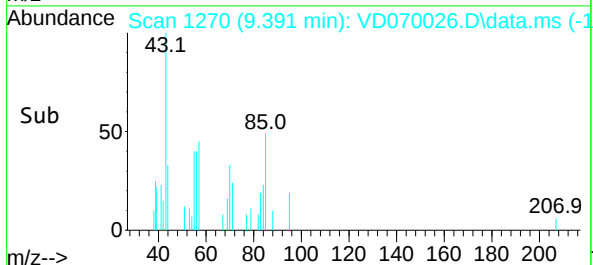
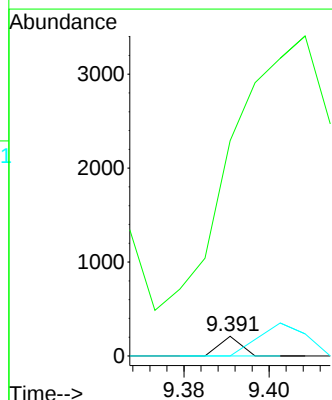
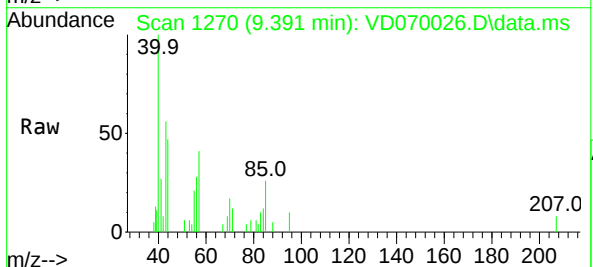
Tgt Ion: 88 Resp: 74

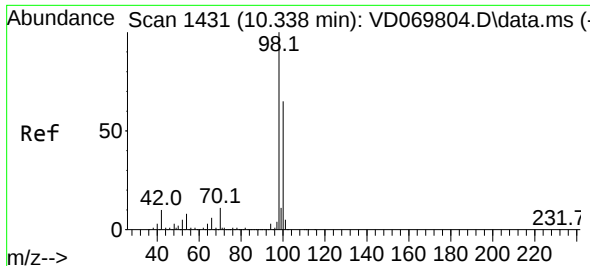
Ion Ratio Lower Upper

88 100

43 9390.5 26.8 40.2#

58 363.5 59.8 89.6#

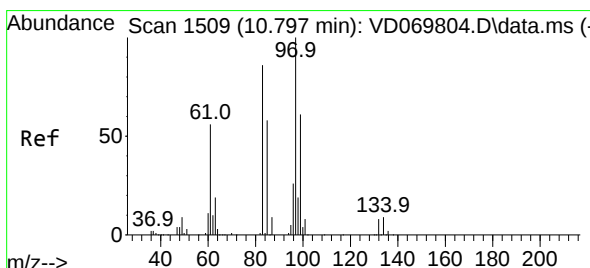
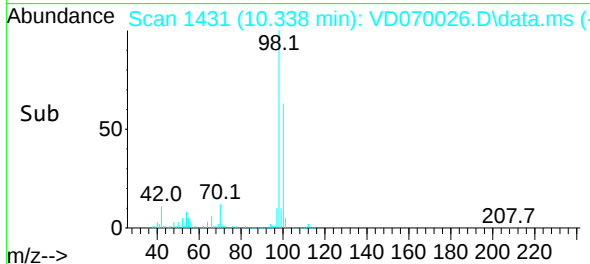
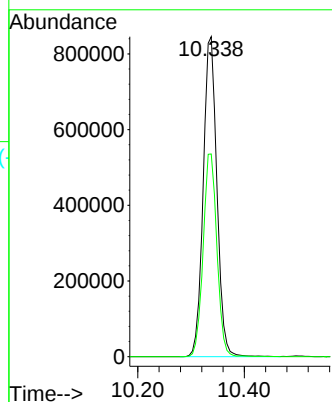
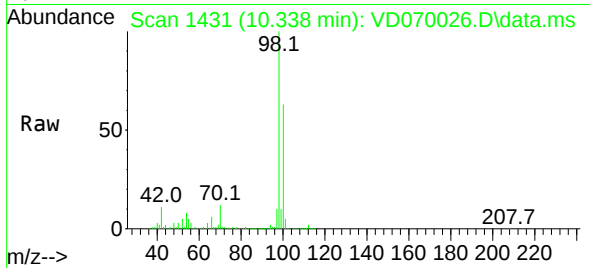




#50
Toluene-d8
Concen: 55.934 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

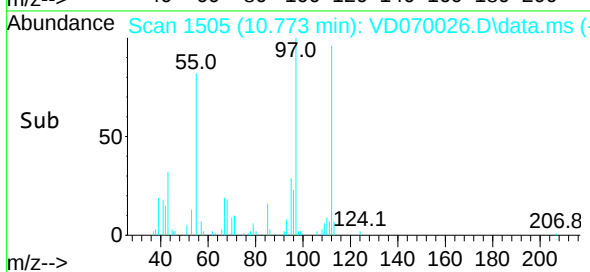
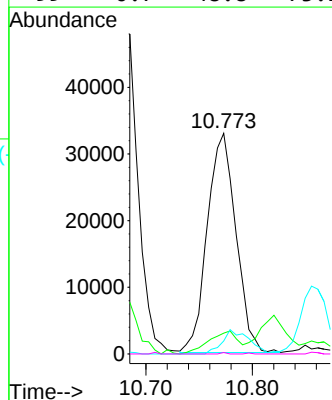
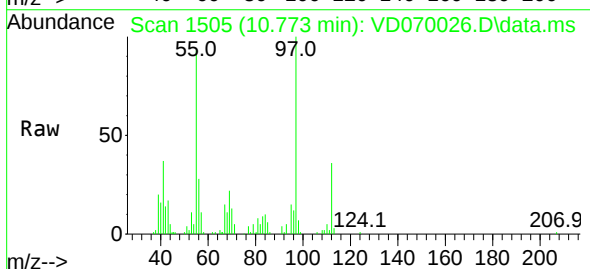
Instrument :
MSVOA_D
ClientSampled :

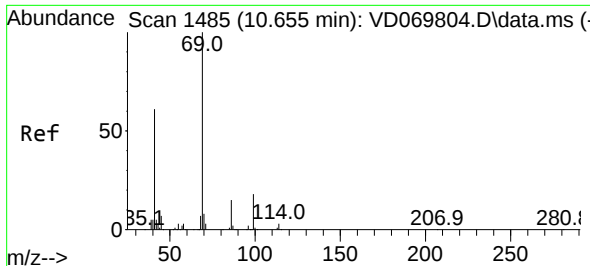
Tgt Ion: 98 Resp: 1505826
Ion Ratio Lower Upper
98 100
100 63.9 51.9 77.9



#55
1,1,2-Trichloroethane
Concen: 9.739 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.024 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Tgt Ion: 97 Resp: 61499
Ion Ratio Lower Upper
97 100
83 9.5 69.1 103.7#
85 5.9 46.2 69.2#
99 0.7 48.8 73.2#

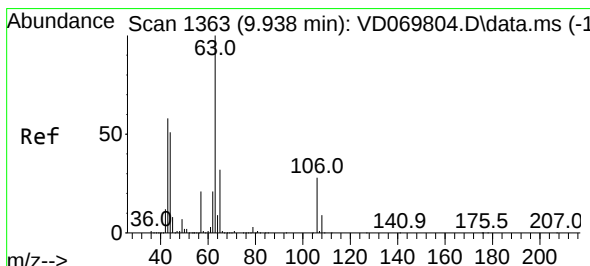
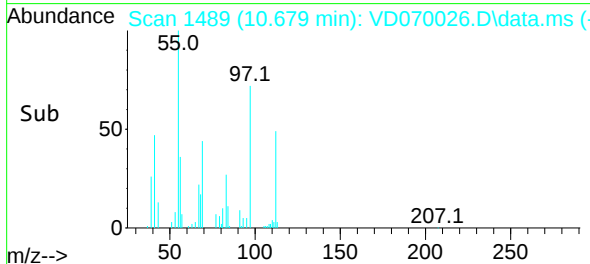
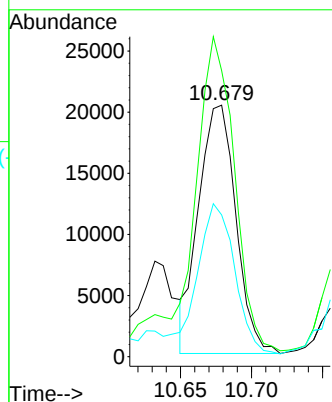
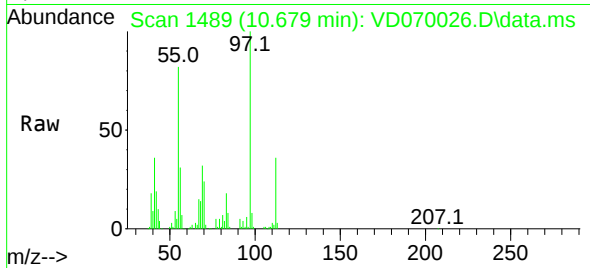




#56
Ethyl methacrylate
Concen: 8.279 ug/l
RT: 10.679 min Scan# 1489
Delta R.T. 0.024 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

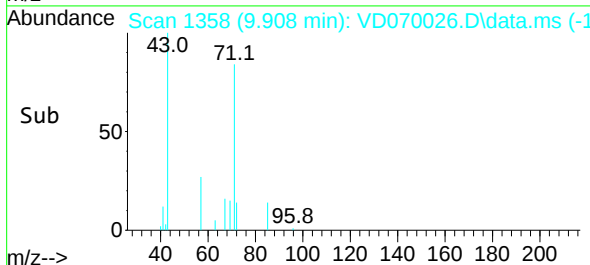
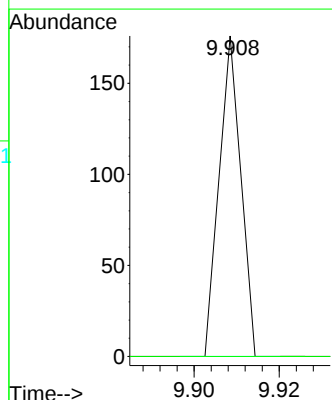
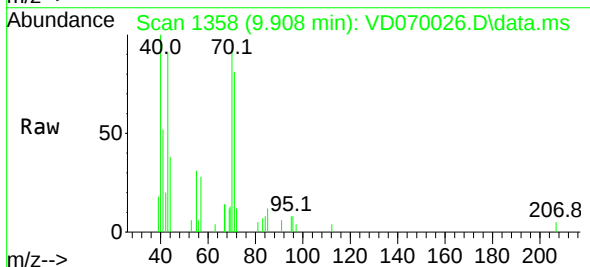
Instrument :
MSVOA_D
ClientSampled :

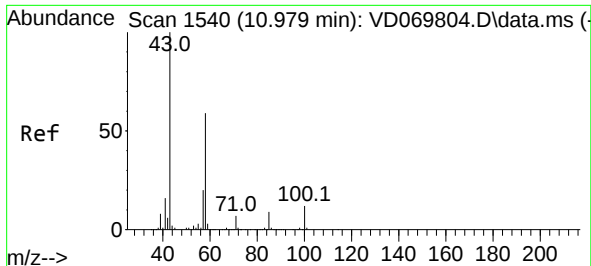
Tgt Ion: 69 Resp: 37111
Ion Ratio Lower Upper
69 100
41 151.6 50.2 75.2#
39 61.4 22.0 33.0#



#58
2-Chloroethyl Vinyl ether
Concen: 20.887 ug/l
RT: 9.908 min Scan# 1358
Delta R.T. -0.030 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Tgt Ion: 63 Resp: 62
Ion Ratio Lower Upper
63 100
106 0.0 21.8 32.6#

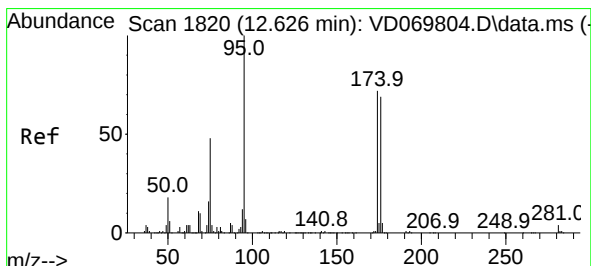
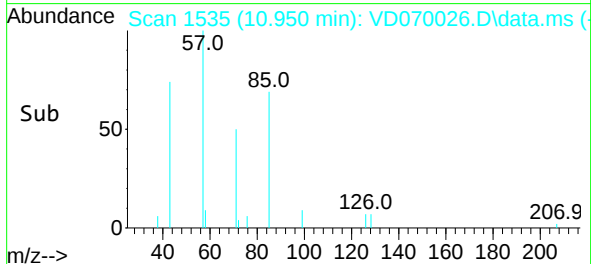
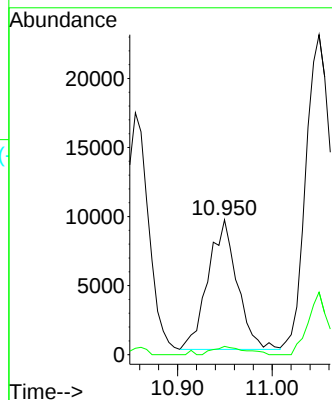
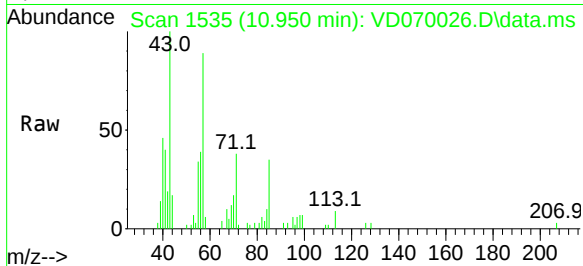




#59
2-Hexanone
Concen: 7.528 ug/l
RT: 10.950 min Scan# 1535
Delta R.T. -0.029 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

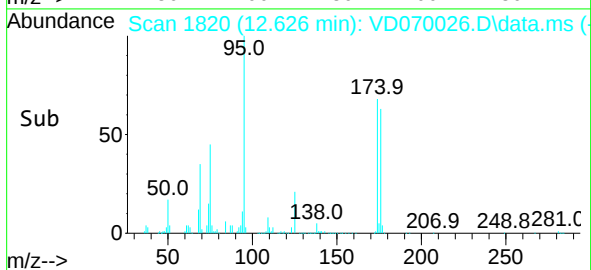
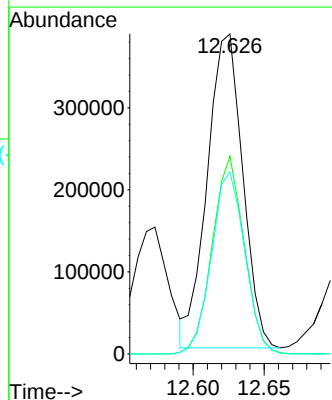
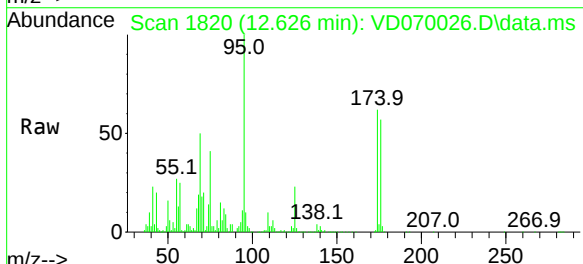
Instrument :
MSVOA_D
ClientSampled :

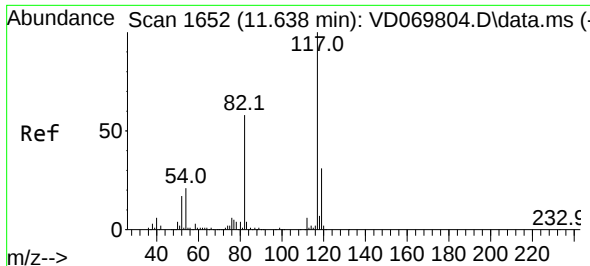
Tgt Ion: 43 Resp: 20221
Ion Ratio Lower Upper
43 100
58 6.9 29.4 88.3#



#62
4-Bromofluorobenzene
Concen: 73.849 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Tgt Ion: 95 Resp: 664443
Ion Ratio Lower Upper
95 100
174 56.7 0.0 142.6
176 54.6 0.0 134.2

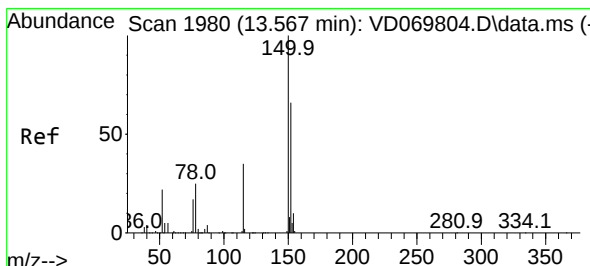
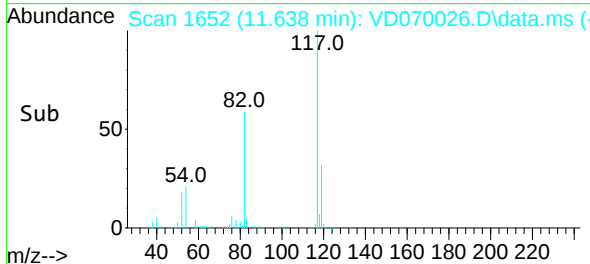
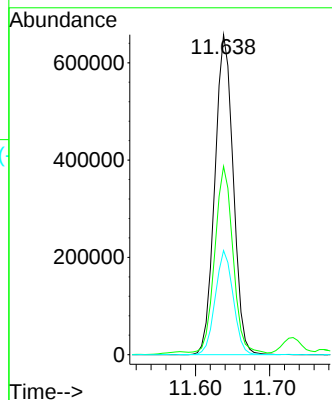
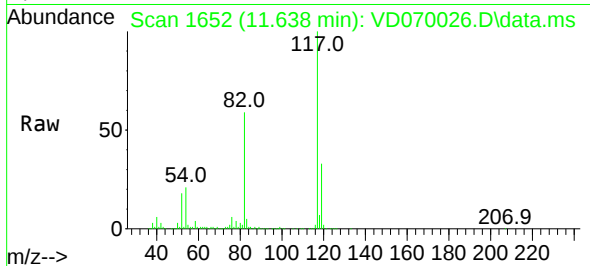




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

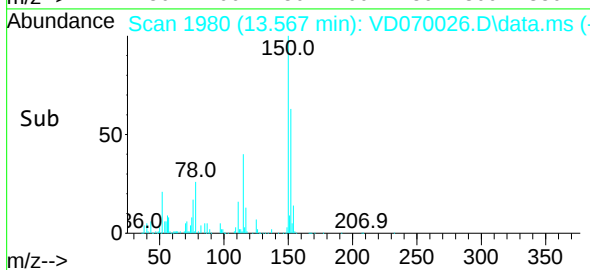
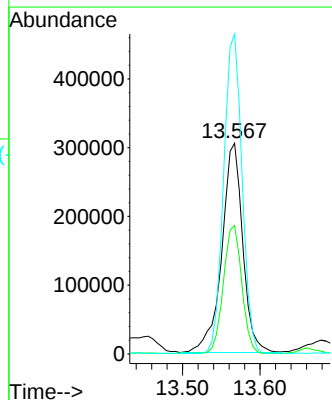
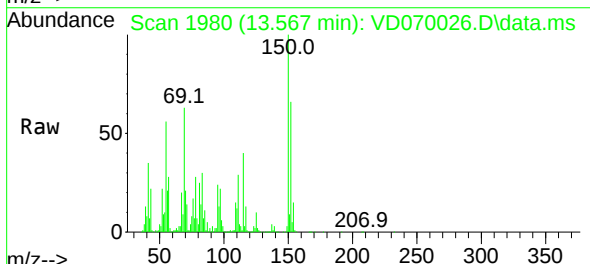
Instrument :
MSVOA_D
ClientSampleId :

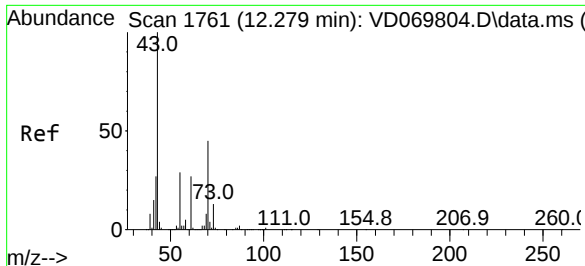
Tgt Ion:117 Resp: 1132105
Ion Ratio Lower Upper
117 100
82 57.9 46.3 69.5
119 32.5 24.7 37.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

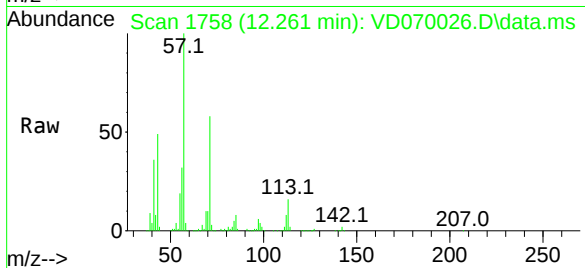
Tgt Ion:152 Resp: 573093
Ion Ratio Lower Upper
152 100
115 53.7 31.1 93.3
150 134.0 0.0 343.0



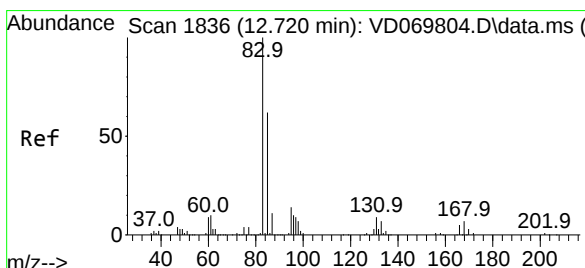
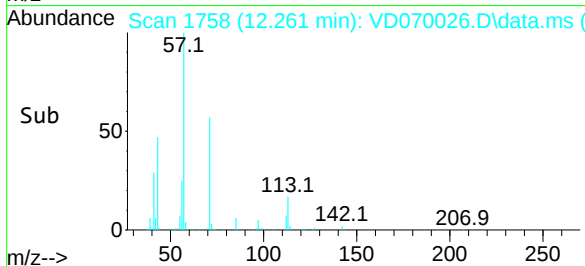
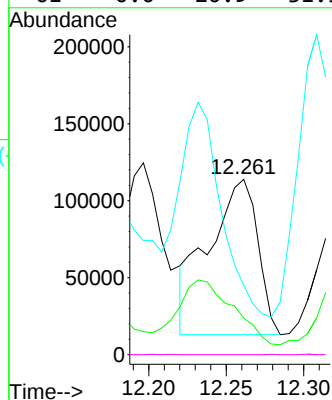


#74
N-amy1 acetate
Concen: 26.460 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Instrument :
MSVOA_D
ClientSampled :

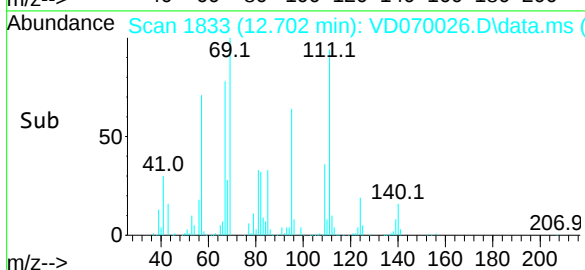
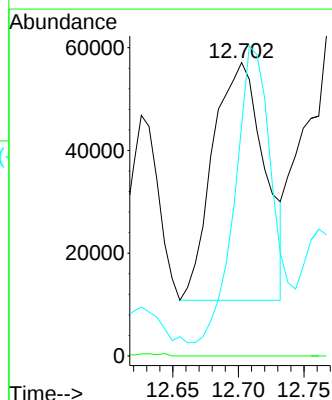
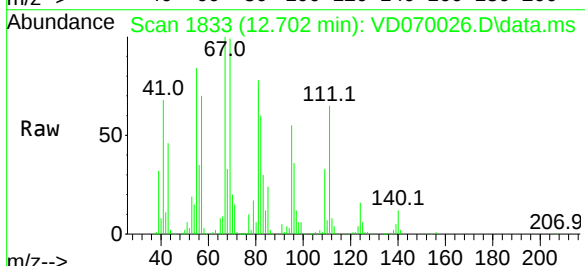


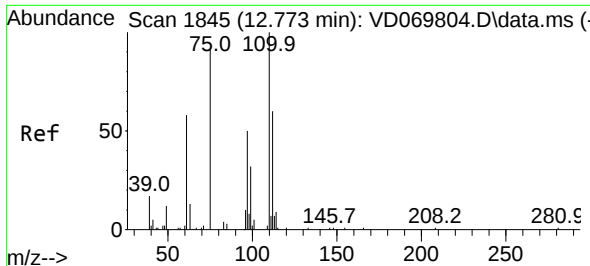
Tgt Ion: 43 Resp: 224111
Ion Ratio Lower Upper
43 100
70 0.0 37.9 56.9#
55 0.0 23.7 35.5#
61 0.0 20.9 31.3#



#75
1,1,2,2-Tetrachloroethane
Concen: 15.456 ug/l
RT: 12.702 min Scan# 1833
Delta R.T. -0.018 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Tgt Ion: 83 Resp: 127102
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.6#
85 91.7 31.8 95.4

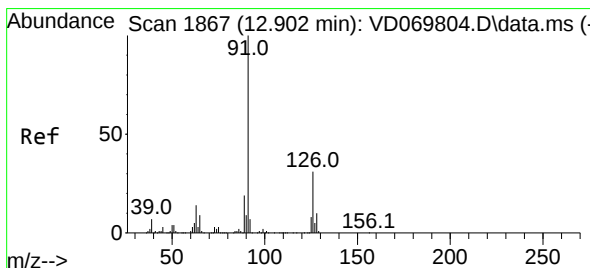
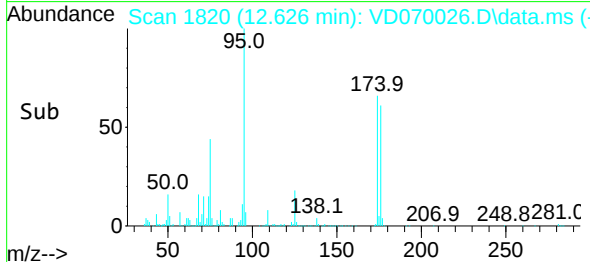
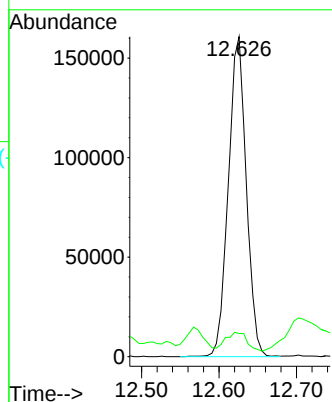
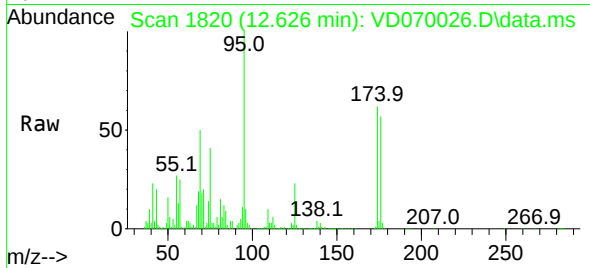




#76
1,2,3-Trichloropropane
Concen: 42.644 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

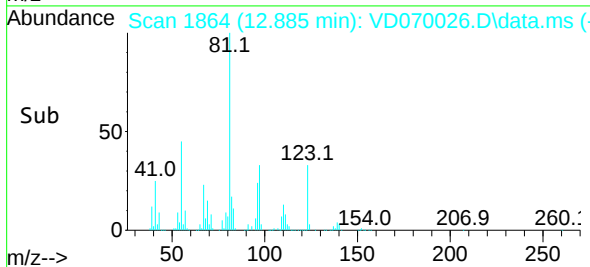
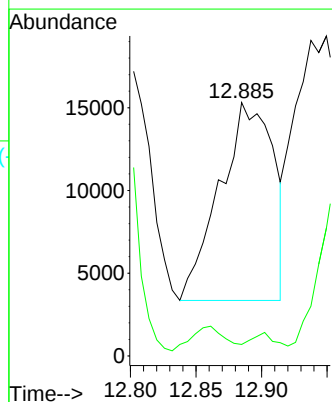
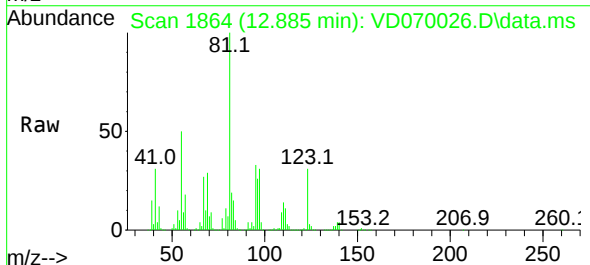
Instrument :
MSVOA_D
ClientSampleId :

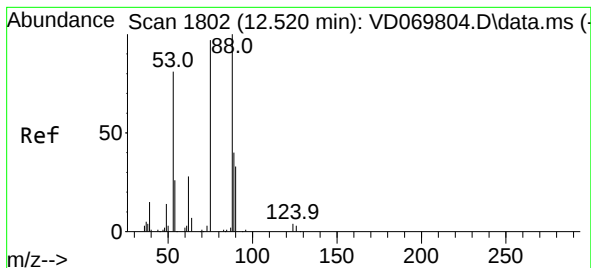
Tgt Ion: 75 Resp: 259767
Ion Ratio Lower Upper
75 100
77 6.9 181.5 544.5#



#79
2-Chlorotoluene
Concen: 1.109 ug/l
RT: 12.885 min Scan# 1864
Delta R.T. -0.018 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Tgt Ion: 91 Resp: 34082
Ion Ratio Lower Upper
91 100
126 0.0 15.9 47.7#

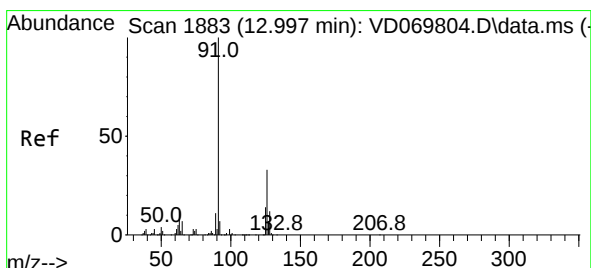
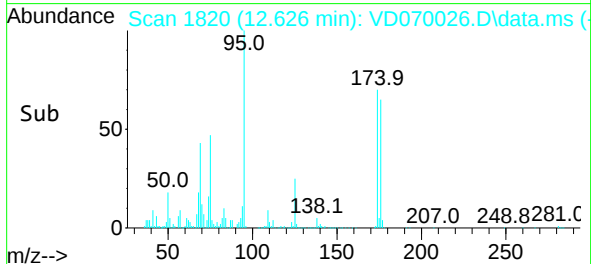
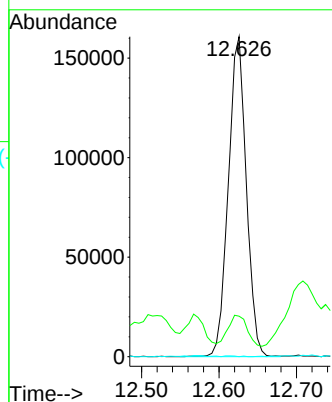
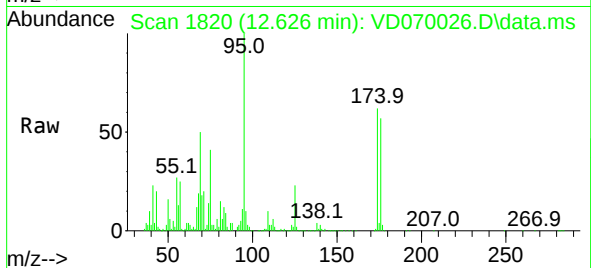




#81
trans-1,4-Dichloro-2-butene
Concen: 129.370 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

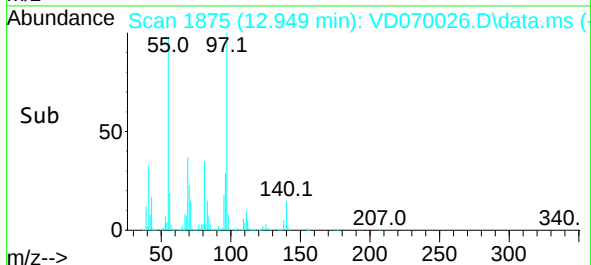
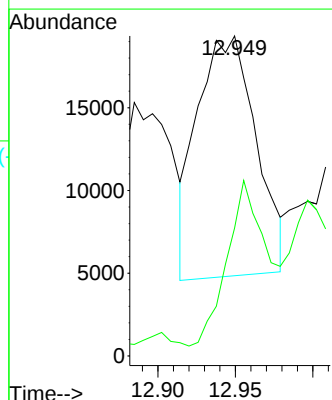
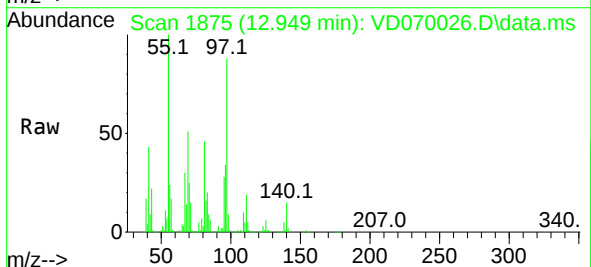
Instrument :
MSVOA_D
ClientSampled :

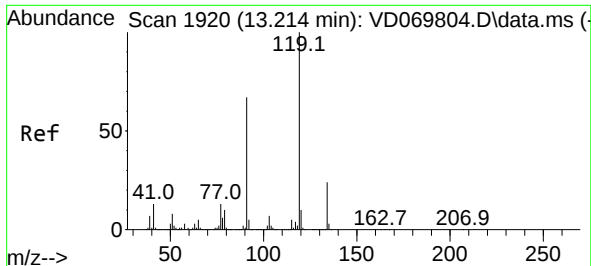
Tgt Ion: 75 Resp: 259767
Ion Ratio Lower Upper
75 100
53 10.2 67.2 100.8#
89 0.2 35.8 53.6#



#82
4-Chlorotoluene
Concen: 1.190 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. -0.047 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Tgt Ion: 91 Resp: 38219
Ion Ratio Lower Upper
91 100
126 47.0 15.9 47.6

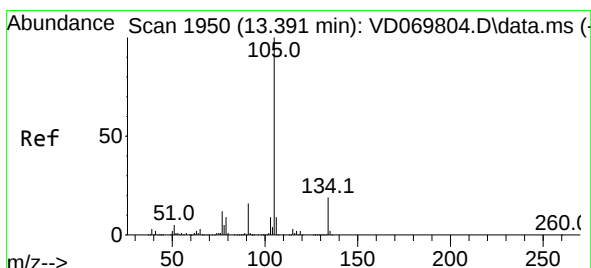
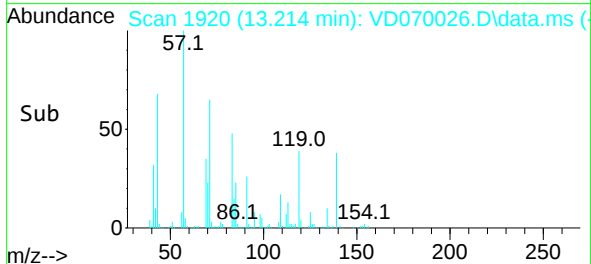
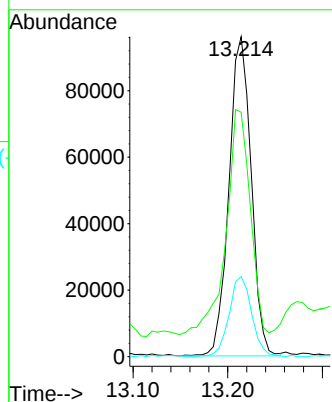
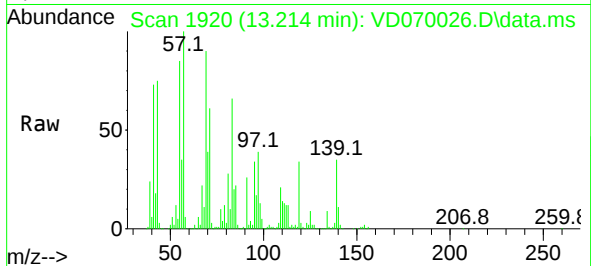




#83
tert-Butylbenzene
Concen: 5.466 ug/l
RT: 13.214 min Scan# 1920
Delta R.T. 0.000 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

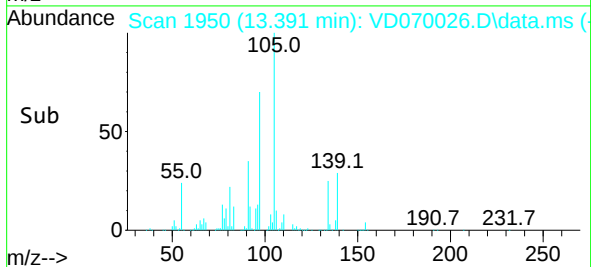
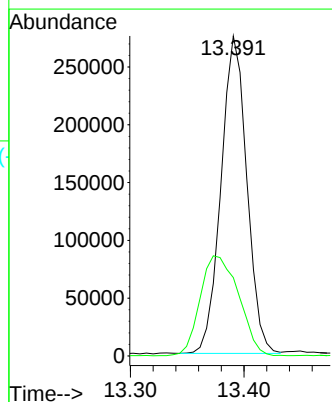
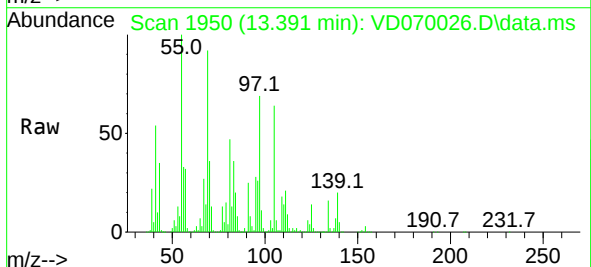
Instrument :
MSVOA_D
ClientSampled :

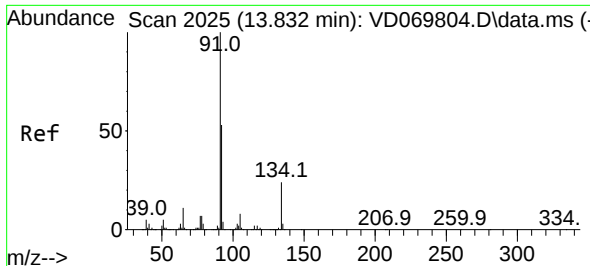
Tgt Ion:119 Resp: 156552
Ion Ratio Lower Upper
119 100
91 76.4 33.7 101.1
134 25.6 13.3 39.8



#85
sec-Butylbenzene
Concen: 9.573 ug/l
RT: 13.391 min Scan# 1950
Delta R.T. -0.000 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Tgt Ion:105 Resp: 433413
Ion Ratio Lower Upper
105 100
134 47.0 9.6 28.6#

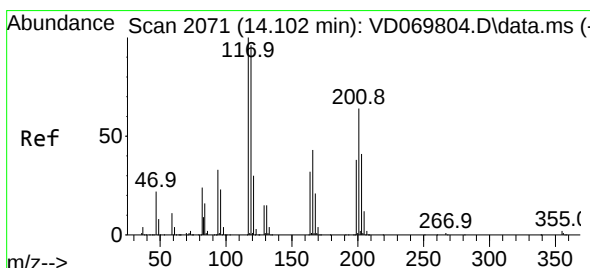
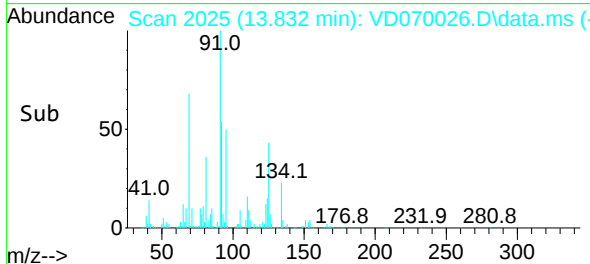
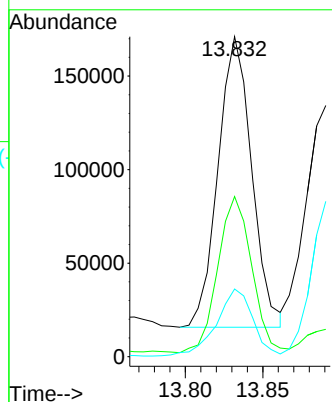
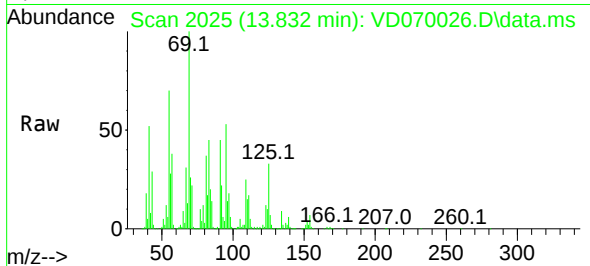




#89
n-Butylbenzene
Concen: 6.446 ug/l
RT: 13.832 min Scan# 2025
Delta R.T. -0.000 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

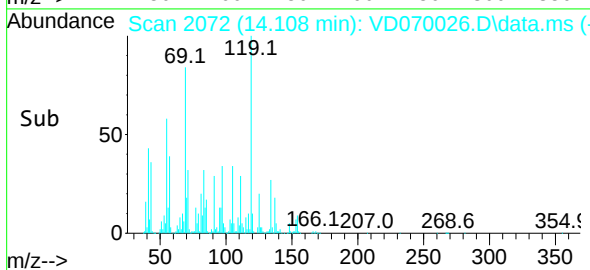
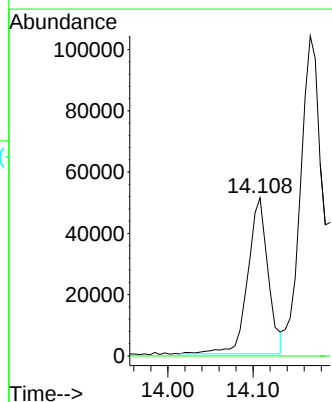
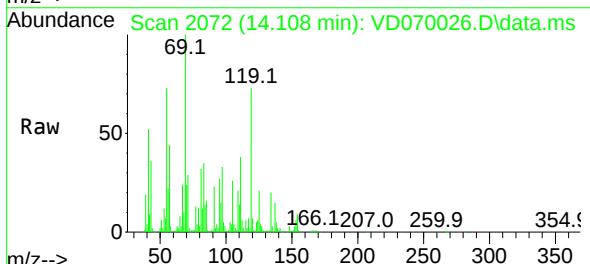
Instrument :
MSVOA_D
ClientSampled :

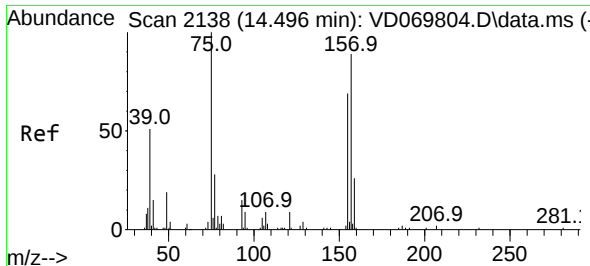
Tgt Ion: 91 Resp: 233988
Ion Ratio Lower Upper
91 100
92 54.1 26.6 79.7
134 25.0 11.9 35.7



#90
Hexachloroethane
Concen: 10.859 ug/l
RT: 14.108 min Scan# 2072
Delta R.T. 0.006 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

Tgt Ion: 117 Resp: 84605
Ion Ratio Lower Upper
117 100
201 0.0 31.9 95.5#

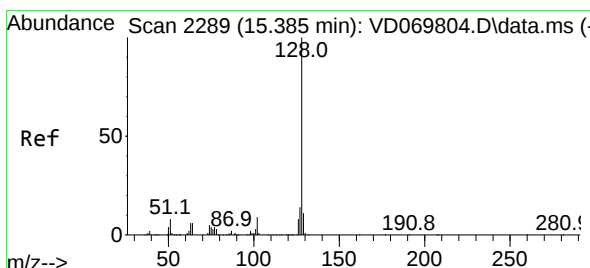
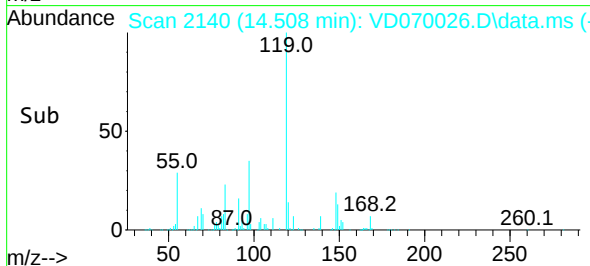
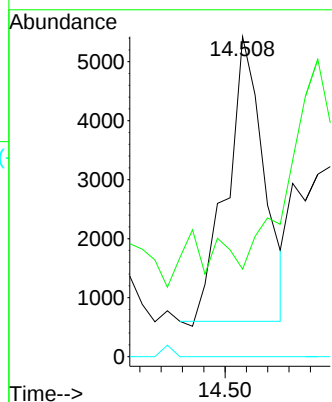
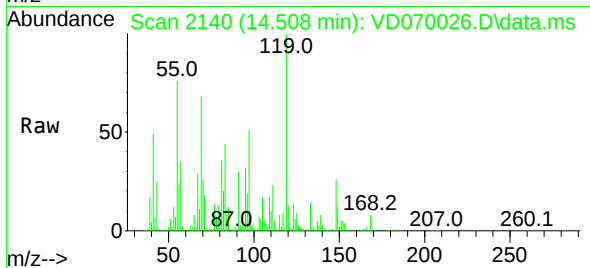




#92
1,2-Dibromo-3-Chloropropane
Concen: 4.907 ug/l
RT: 14.508 min Scan# 2140
Delta R.T. 0.012 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

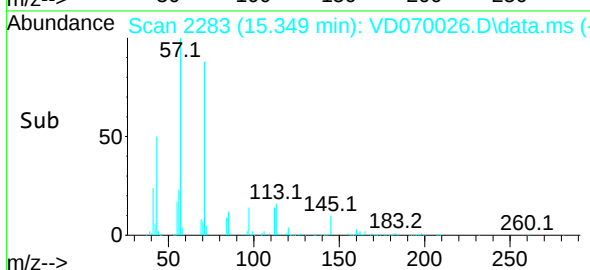
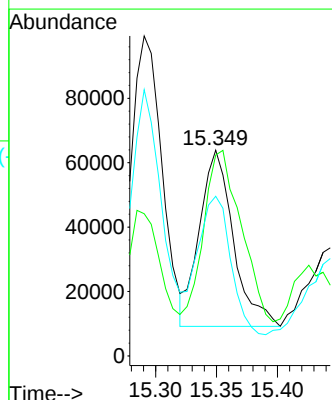
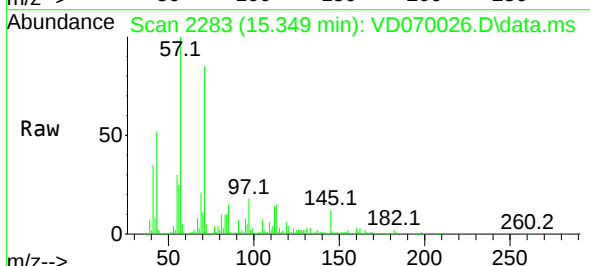
Instrument :
MSVOA_D
ClientSampled :

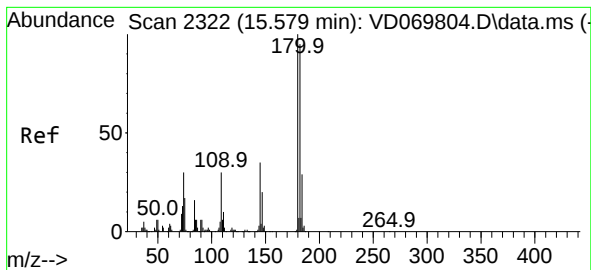
Tgt Ion: 75 Resp: 5811
Ion Ratio Lower Upper
75 100
155 0.0 36.3 108.9#
157 0.0 47.0 141.0#



#95
Naphthalene
Concen: 10.089 ug/l
RT: 15.349 min Scan# 2283
Delta R.T. -0.036 min
Lab File: VD070026.D
Acq: 11 Aug 2021 16:32

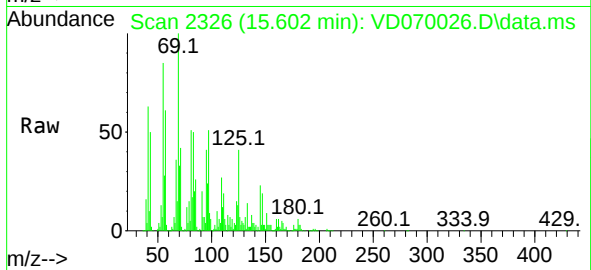
Tgt Ion: 128 Resp: 105942
Ion Ratio Lower Upper
128 100
127 106.1 10.6 16.0#
129 78.2 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.421 ug/l
 RT: 15.602 min Scan# 2326
 Delta R.T. 0.024 min
 Lab File: VD070026.D
 Acq: 11 Aug 2021 16:32

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:180 Resp: 26822
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 142.0#
 145 0.0 17.3 51.9#

