

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051322\
 Data File : VD072989.D
 Acq On : 13 May 2022 15:01
 Operator : VA/SY
 Sample : N2826-01
 Misc : 5.02 G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PL-05-051222

Quant Time: May 13 15:09:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D050222S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 03 08:33:49 2022
 Response via : Initial Calibration

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

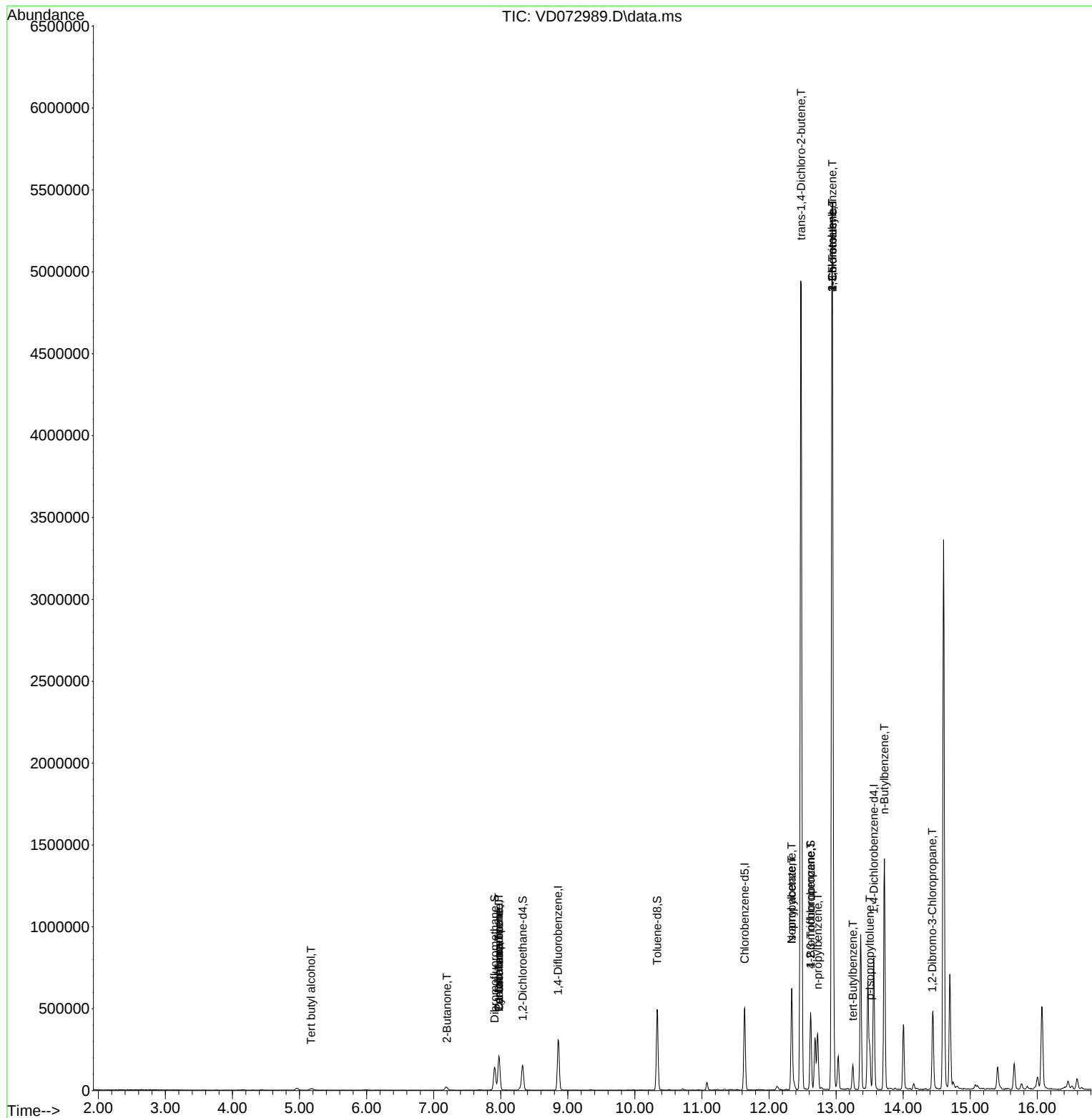
Internal Standards						
1) Pentafluorobenzene	7.973	168	146549	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	265898	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	288499	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	160859	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	118167	62.117	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 124.240%	
35) Dibromofluoromethane	7.909	113	103206	55.266	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 110.540%	
50) Toluene-d8	10.332	98	331889	49.546	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 99.100%	
62) 4-Bromofluorobenzene	12.620	95	156129	62.508	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 125.020%	
Target Compounds						Qvalue
5) Bromomethane	2.785	94	1352	Below Cal	#	77
11) Tert butyl alcohol	5.173	59	4602	27.960	ug/l #	74
13) Acrolein	3.744	56	62	Below Cal	#	14
16) Acetone	4.144	43	1328	Below Cal	#	80
18) Methyl Acetate	4.750	43	55	Below Cal	#	55
20) Methylene Chloride	4.962	84	8842	Below Cal	#	72
25) 2-Butanone	7.197	43	1068	1.927	ug/l #	52
31) Cyclohexane	7.973	56	4209	1.266	ug/l #	1
36) 1,1-Dichloropropene	7.973	75	13394	4.411	ug/l #	52
38) Carbon Tetrachloride	7.973	117	15457	4.904	ug/l #	19
73) Isopropylbenzene	12.338	105	17177	1.372	ug/l	91
74) N-amyl acetate	12.338	43	14039	4.504	ug/l #	41
76) 1,2,3-Trichloropropane	12.620	75	80731	45.009	ug/l #	100
78) n-propylbenzene	12.726	91	36140	2.291	ug/l #	60
79) 2-Chlorotoluene	12.944	91	1023152	111.041	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.944	105	83986	7.914	ug/l #	60
81) trans-1,4-Dichloro-2-b...	12.479	75	7913	10.145	ug/l #	1
82) 4-Chlorotoluene	12.944	91	1023152	106.276	ug/l #	42
83) tert-Butylbenzene	13.249	119	13162	1.459	ug/l #	1
86) p-Isopropyltoluene	13.502	119	155269	13.917	ug/l #	76
89) n-Butylbenzene	13.720	91	240025	22.209	ug/l #	79
92) 1,2-Dibromo-3-Chloropr...	14.432	75	401	1.001	ug/l #	6

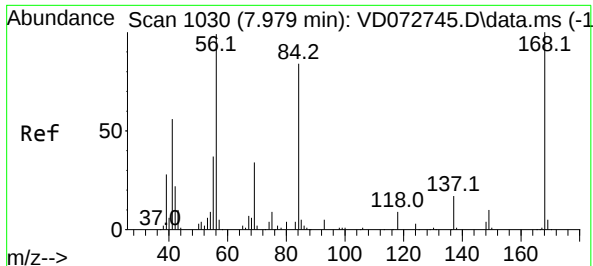
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 13 15:09:03 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D050222S.M
Quant Title : SW846 8260
QLast Update : Tue May 03 08:33:49 2022
Response via : Initial Calibration

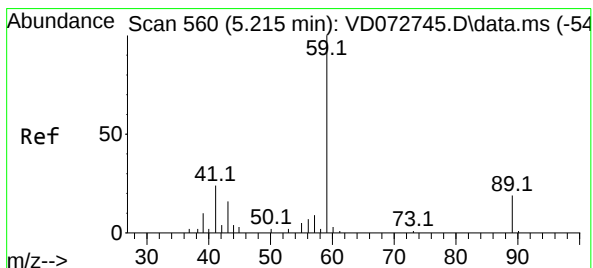
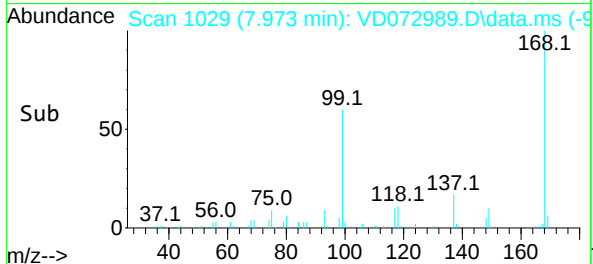
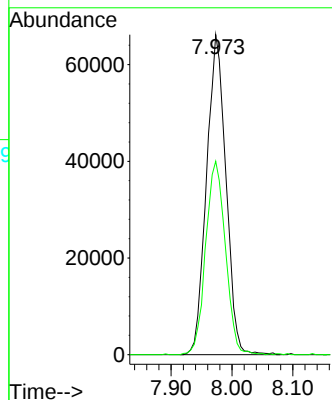
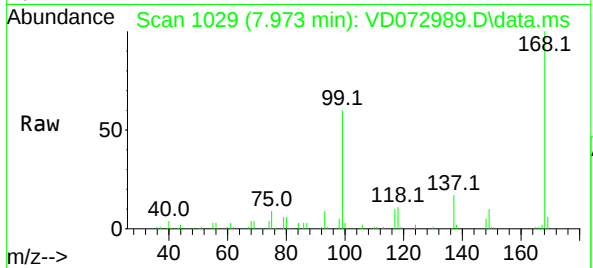




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

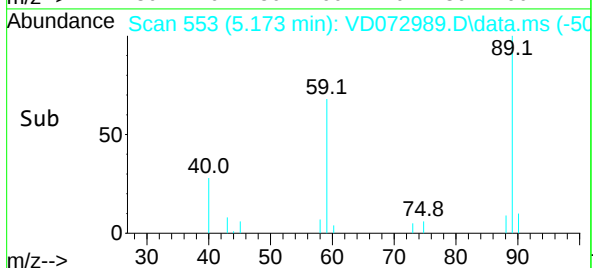
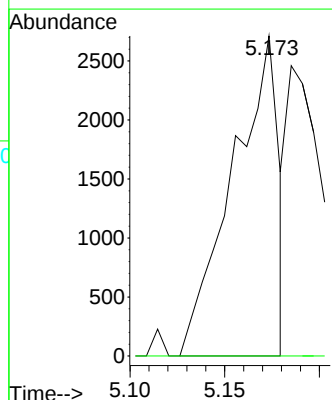
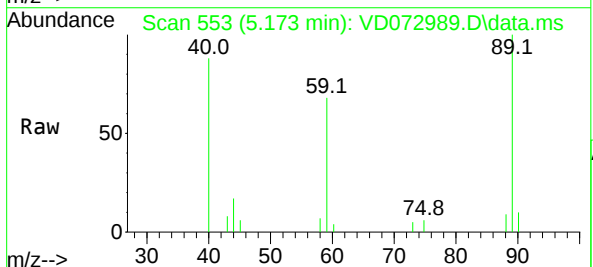
Instrument :
MSVOA_D
ClientSampleId :
PL-05-051222

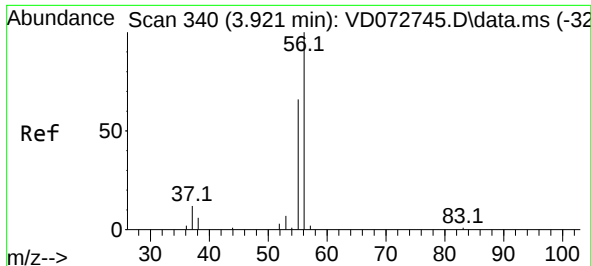
Tgt Ion:168 Resp: 146549
Ion Ratio Lower Upper
168 100
99 60.5 49.8 74.6



#11
Tert butyl alcohol
Concen: 27.960 ug/l
RT: 5.173 min Scan# 553
Delta R.T. -0.042 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Tgt Ion: 59 Resp: 4602
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#

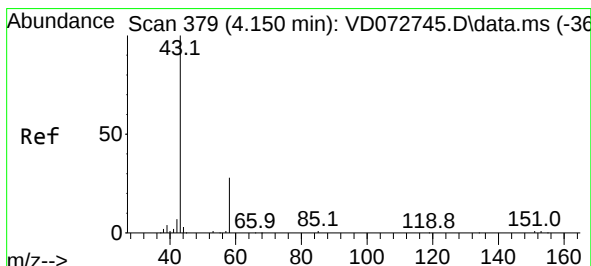
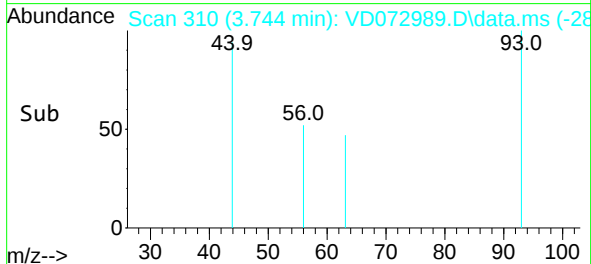
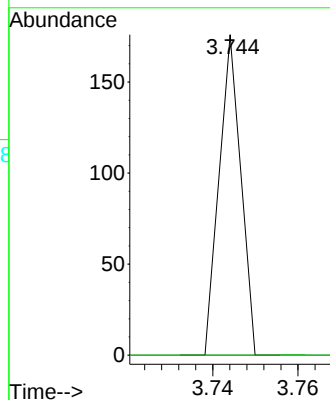
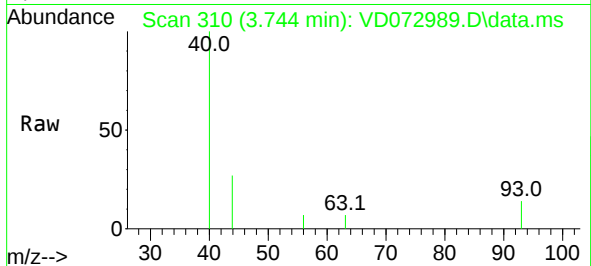




#13
Acrolein
Concen: Below Cal
RT: 3.744 min Scan# 31
Delta R.T. -0.177 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

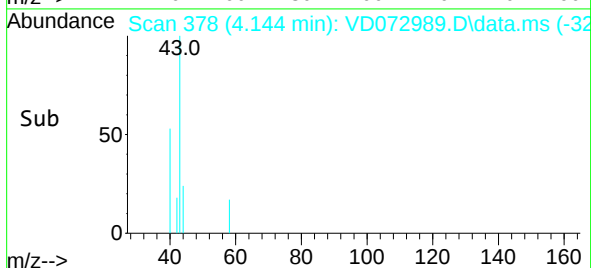
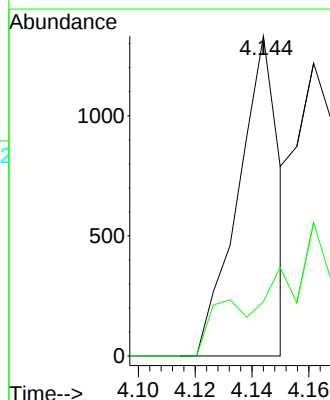
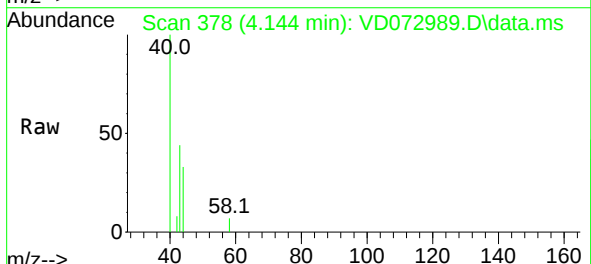
Instrument :
MSVOA_D
ClientSampleId :
PL-05-051222

Tgt Ion: 56 Resp: 62
Ion Ratio Lower Upper
56 100
55 0.0 57.1 85.7#



#16
Acetone
Concen: Below Cal
RT: 4.144 min Scan# 378
Delta R.T. -0.006 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Tgt Ion: 43 Resp: 1328
Ion Ratio Lower Upper
43 100
58 17.0 22.1 33.1#



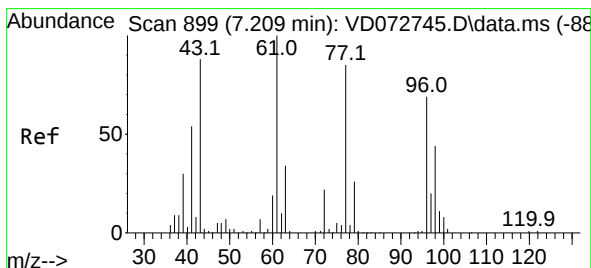
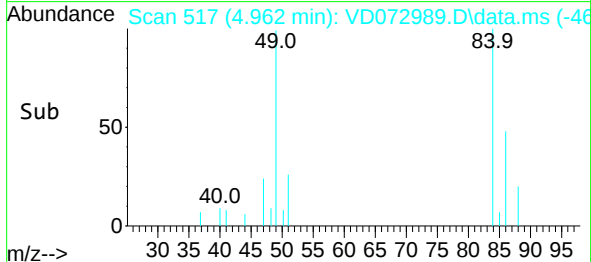
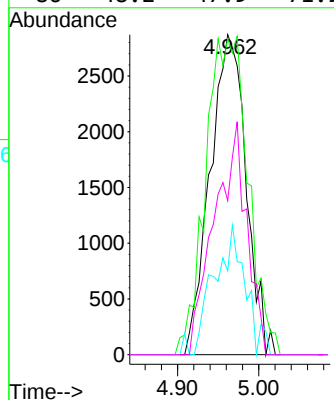
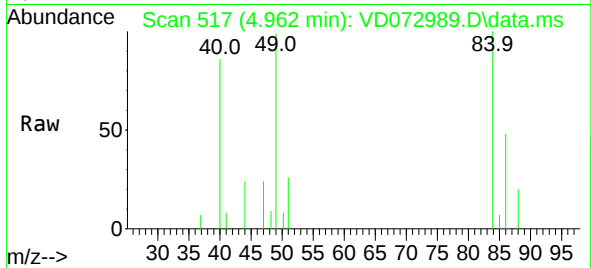


#20
Methylene Chloride
Concen: Below Cal
RT: 4.962 min Scan# 517
Delta R.T. -0.000 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Instrument :
MSVOA_D
ClientSampleId :
PL-05-051222

Tgt Ion: 84 Resp: 8842

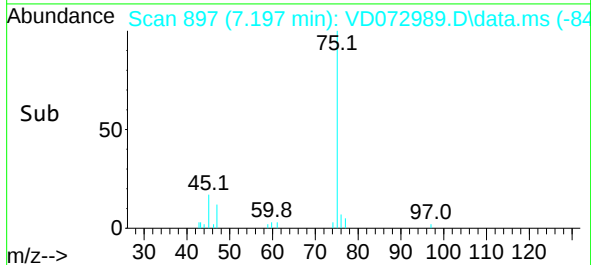
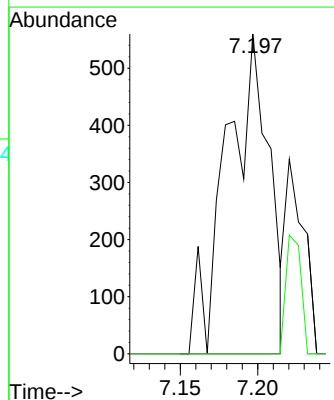
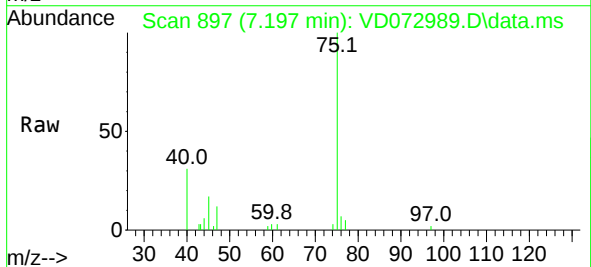
Ion	Ratio	Lower	Upper
84	100		
49	98.7	112.8	169.2#
51	26.2	32.6	48.8#
86	48.2	47.9	71.9

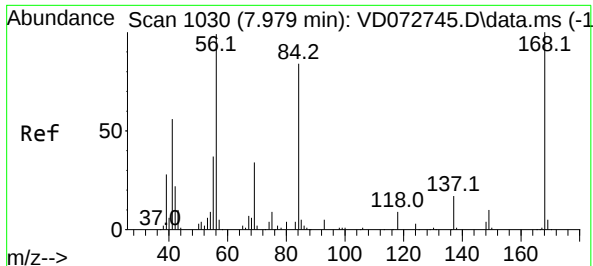


#25
2-Butanone
Concen: 1.927 ug/l
RT: 7.197 min Scan# 897
Delta R.T. -0.012 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Tgt Ion: 43 Resp: 1068

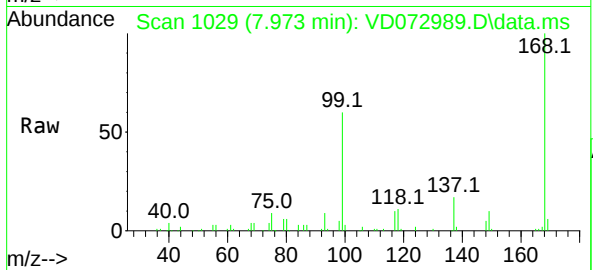
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.6	27.8#



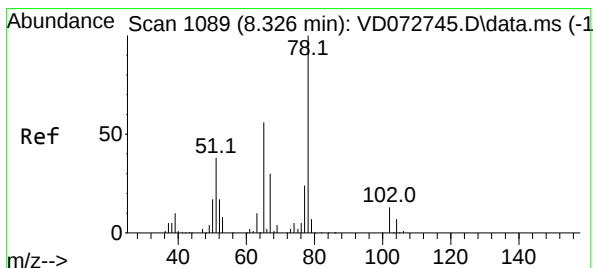
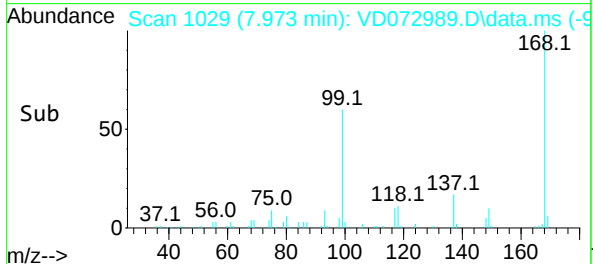
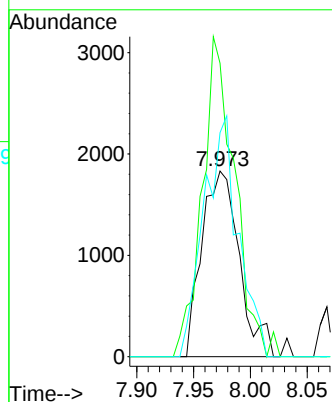


#31
Cyclohexane
Concen: 1.266 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Instrument :
MSVOA_D
ClientSampleId :
PL-05-051222

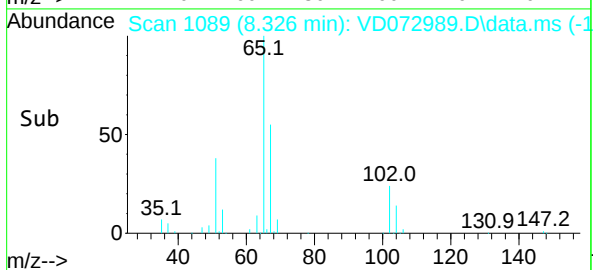
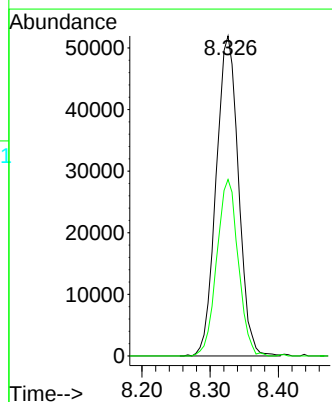
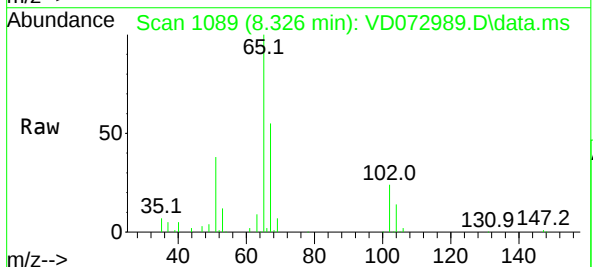


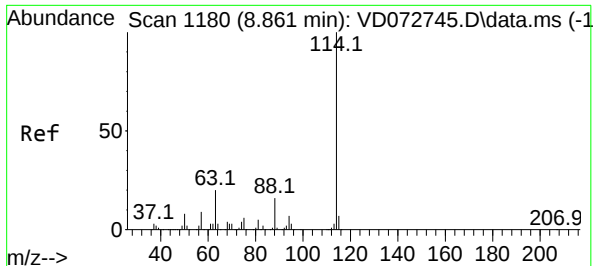
Tgt Ion: 56 Resp: 4209
Ion Ratio Lower Upper
56 100
69 158.2 25.4 38.2#
84 120.8 63.0 94.4#



#33
1,2-Dichloroethane-d4
Concen: 62.117 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Tgt Ion: 65 Resp: 118167
Ion Ratio Lower Upper
65 100
67 53.2 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 11

Delta R.T. -0.005 min

Lab File: VD072989.D

Acq: 13 May 2022 15:01

Instrument :

MSVOA_D

ClientSampleId :

PL-05-051222

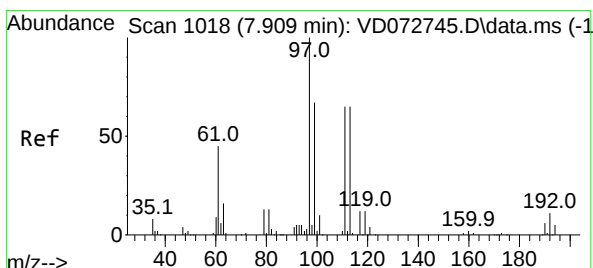
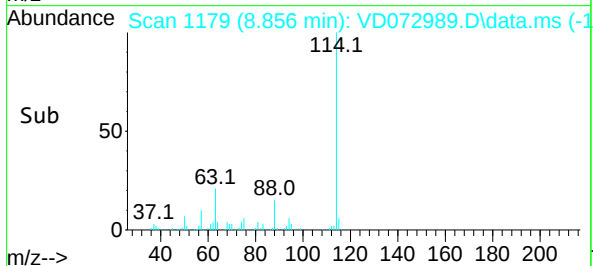
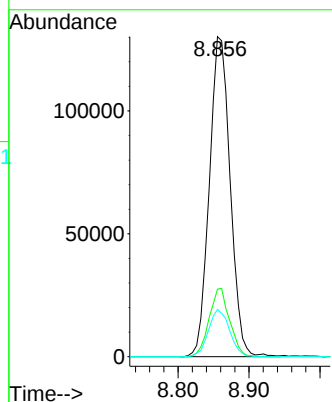
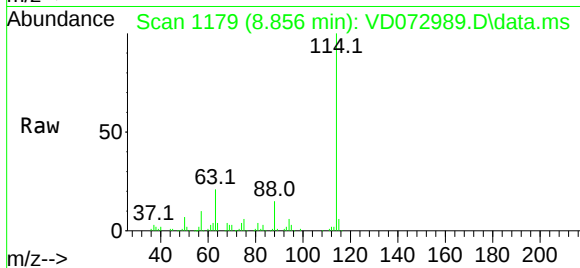
Tgt Ion:114 Resp: 265898

Ion Ratio Lower Upper

114 100

63 21.1 0.0 46.6

88 14.8 0.0 33.2



#35

Dibromofluoromethane

Concen: 55.266 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.000 min

Lab File: VD072989.D

Acq: 13 May 2022 15:01

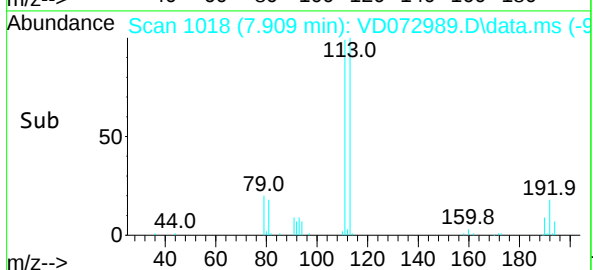
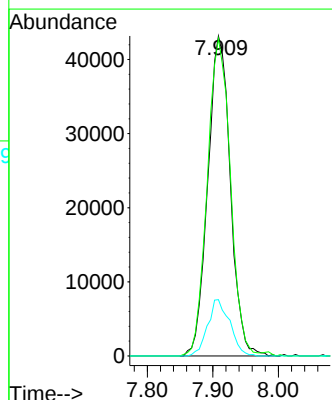
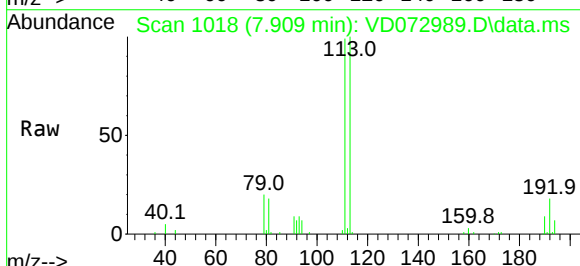
Tgt Ion:113 Resp: 103206

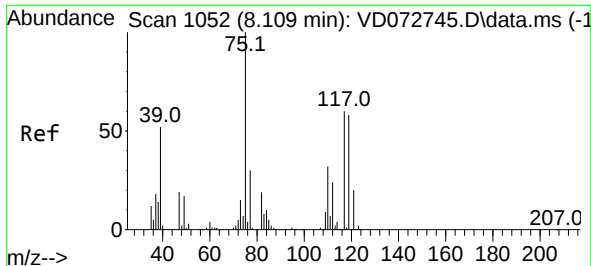
Ion Ratio Lower Upper

113 100

111 101.6 83.8 125.6

192 17.3 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.411 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.136 min

Lab File: VD072989.D

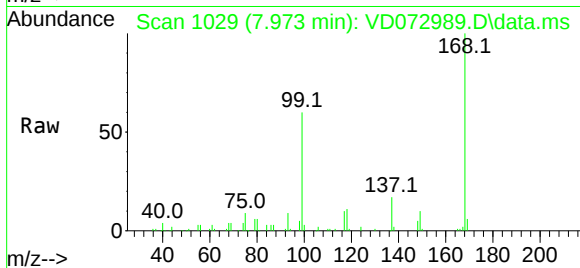
Acq: 13 May 2022 15:01

Instrument :

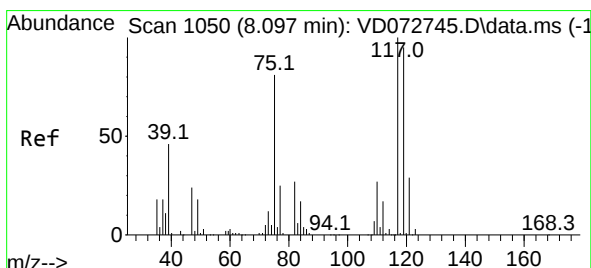
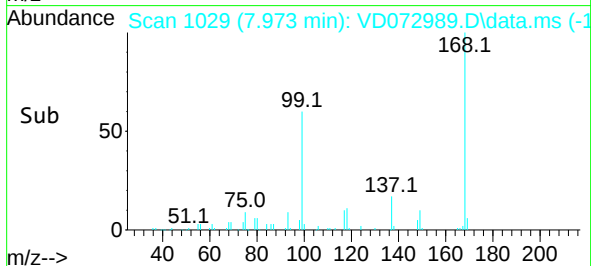
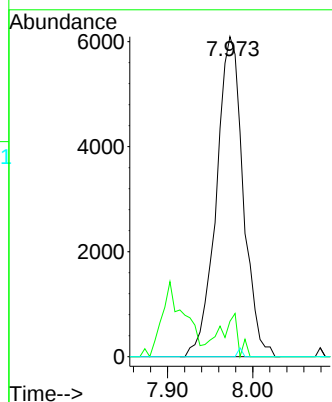
MSVOA_D

ClientSampleId :

PL-05-051222



Tgt Ion: 75	Resp: 13394
Ion Ratio	Lower Upper
75	100
110	9.1 16.4 49.1#
77	0.4 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 4.904 ug/l

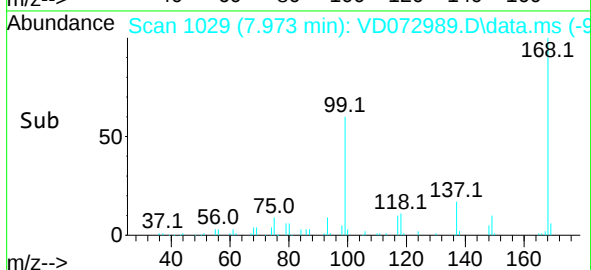
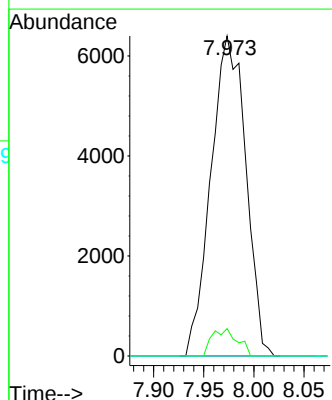
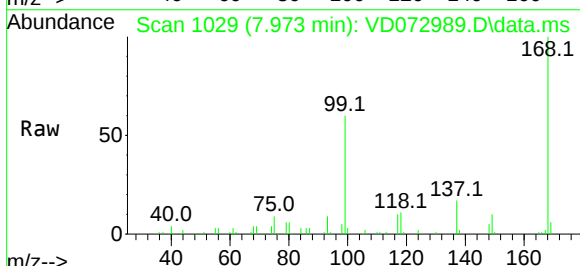
RT: 7.973 min Scan# 1029

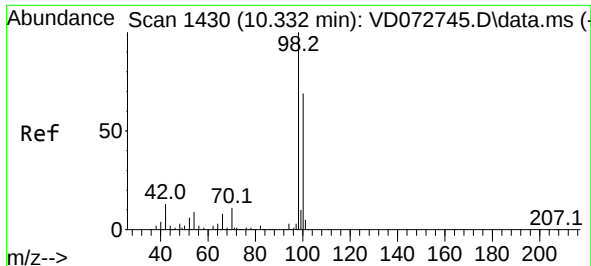
Delta R.T. -0.124 min

Lab File: VD072989.D

Acq: 13 May 2022 15:01

Tgt Ion: 117	Resp: 15457
Ion Ratio	Lower Upper
117	100
119	8.6 75.8 113.6#
121	0.0 24.5 36.7#

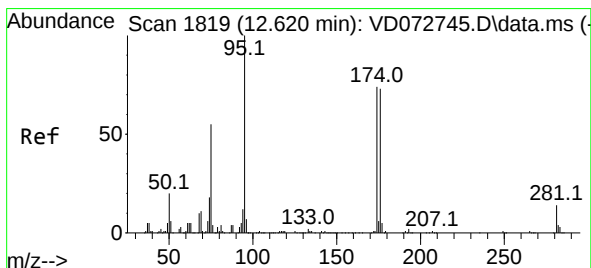
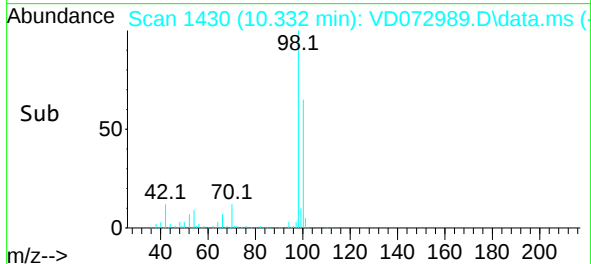
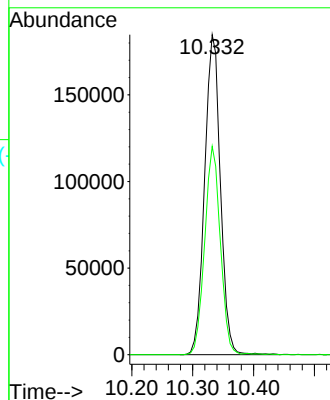
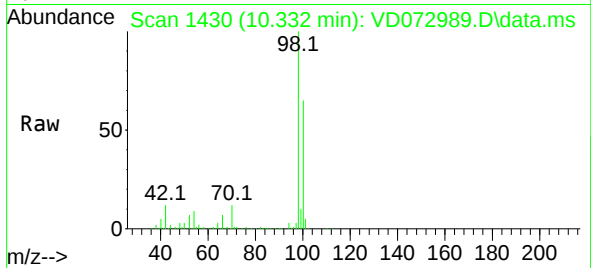




#50
Toluene-d8
Concen: 49.546 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

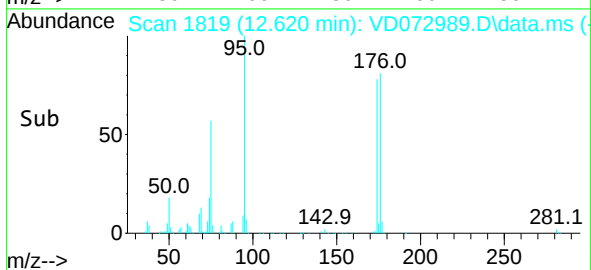
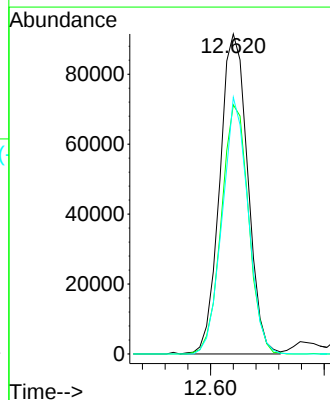
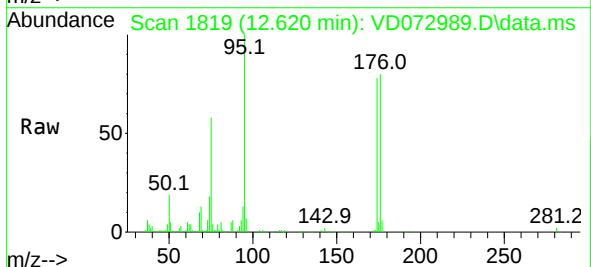
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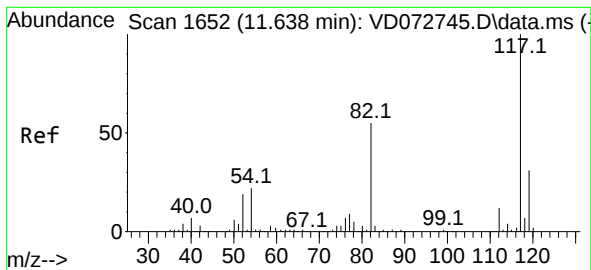
Tgt Ion: 98 Resp: 331889
Ion Ratio Lower Upper
98 100
100 64.5 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 62.508 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Tgt Ion: 95 Resp: 156129
Ion Ratio Lower Upper
95 100
174 75.7 0.0 152.8
176 74.2 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.638 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD072989.D

Acq: 13 May 2022 15:01

Instrument :

MSVOA_D

ClientSampleId :

PL-05-051222

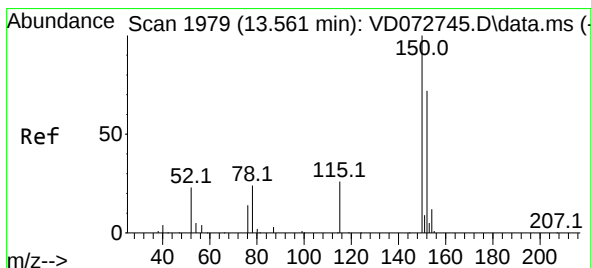
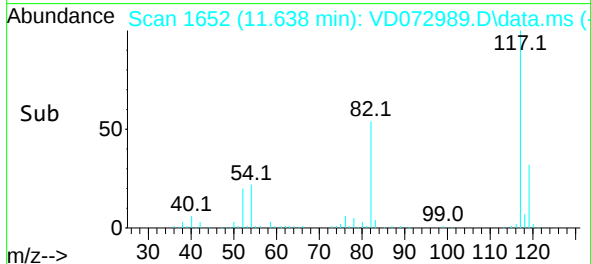
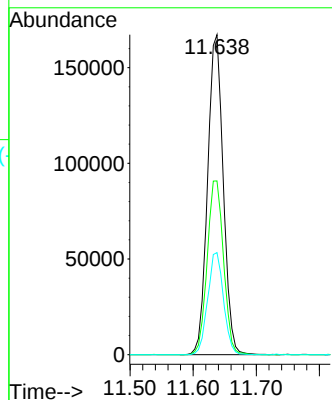
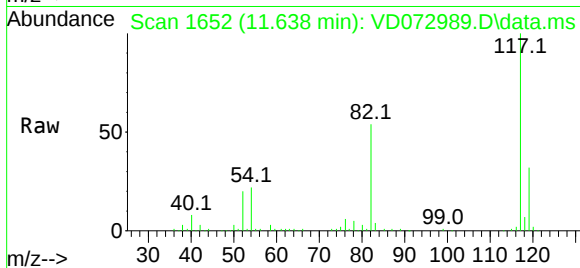
Tgt Ion:117 Resp: 288499

Ion Ratio Lower Upper

117 100

82 54.3 45.3 67.9

119 31.9 26.6 40.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.561 min Scan# 1979

Delta R.T. 0.000 min

Lab File: VD072989.D

Acq: 13 May 2022 15:01

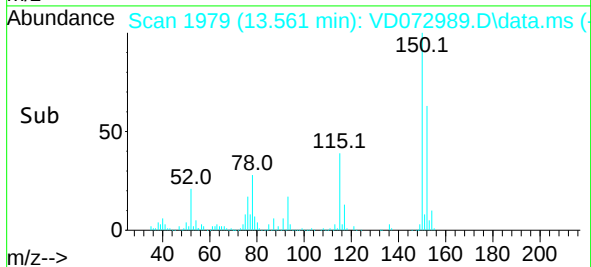
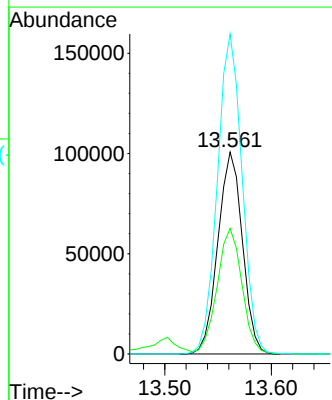
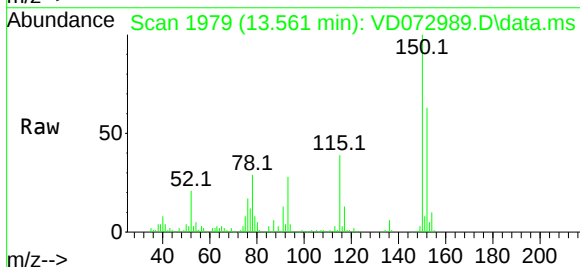
Tgt Ion:152 Resp: 160859

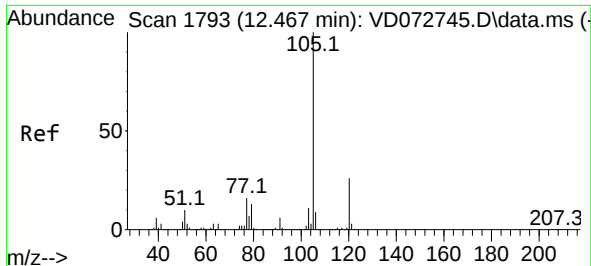
Ion Ratio Lower Upper

152 100

115 63.3 31.3 93.8

150 159.5 0.0 348.6

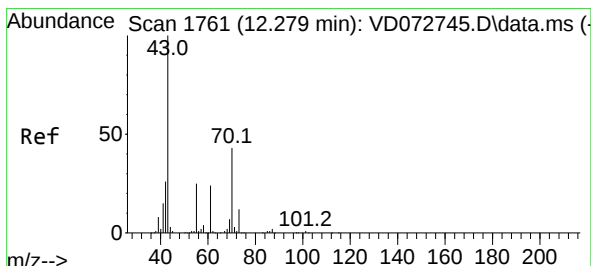
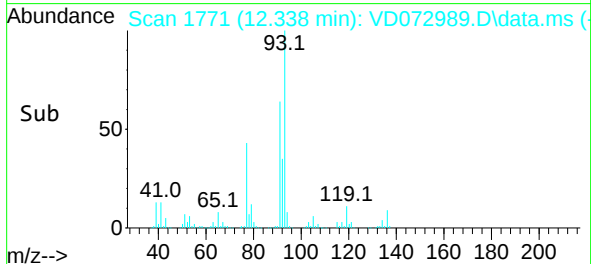
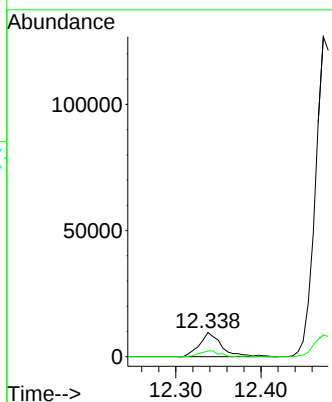
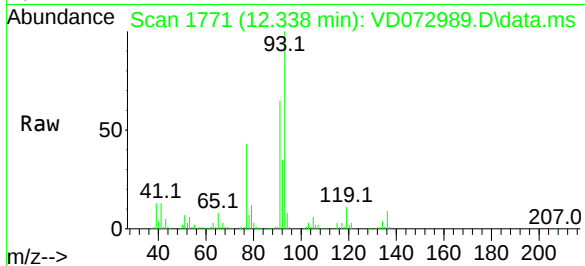




#73
Isopropylbenzene
Concen: 1.372 ug/l
RT: 12.338 min Scan# 1771
Delta R.T. -0.129 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

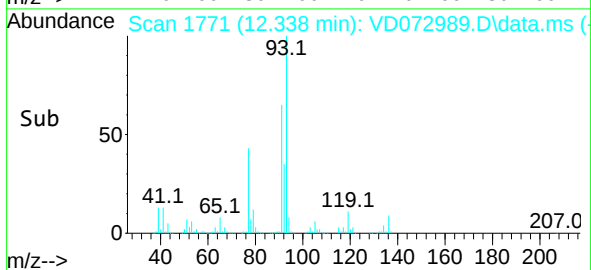
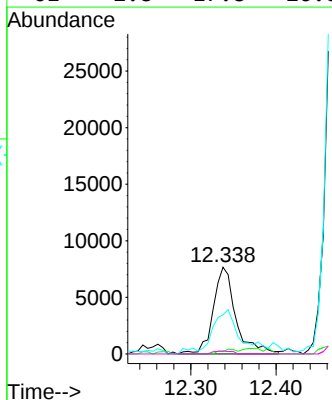
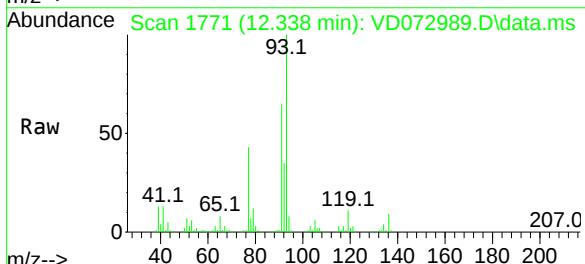
Instrument :
MSVOA_D
ClientSampleId :
PL-05-051222

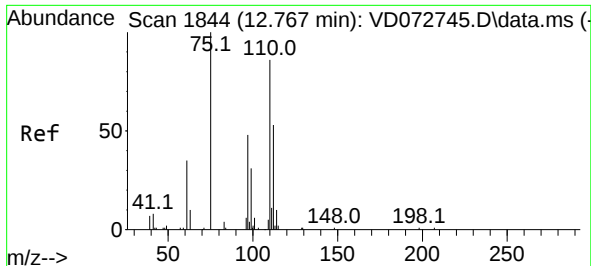
Tgt Ion:105 Resp: 17177
Ion Ratio Lower Upper
105 100
120 21.3 13.0 38.9



#74
N-ethyl acetate
Concen: 4.504 ug/l
RT: 12.338 min Scan# 1771
Delta R.T. 0.059 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Tgt Ion: 43 Resp: 14039
Ion Ratio Lower Upper
43 100
70 3.8 31.3 46.9#
55 64.0 20.0 30.0#
61 2.8 17.8 26.8#

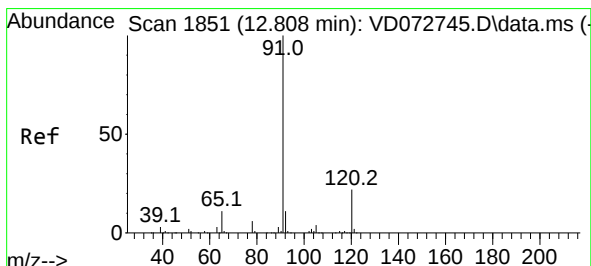
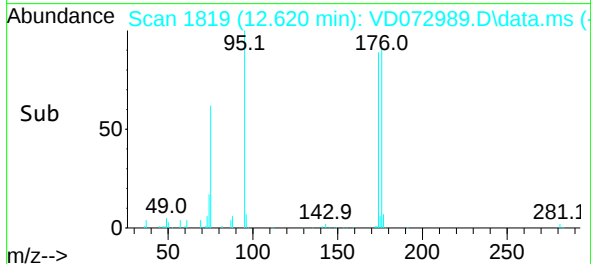
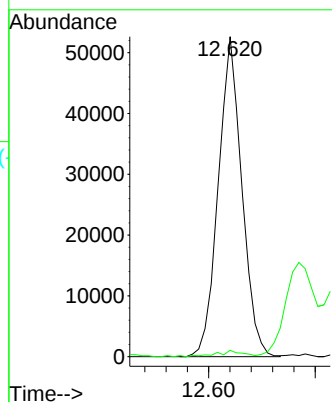
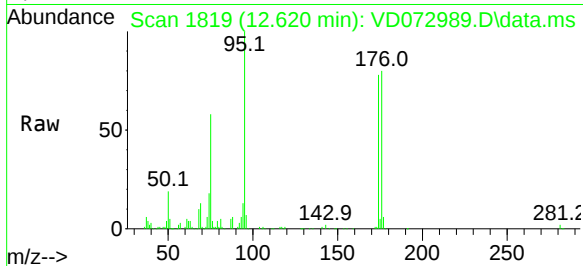




#76
1,2,3-Trichloropropane
Concen: 45.009 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.147 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

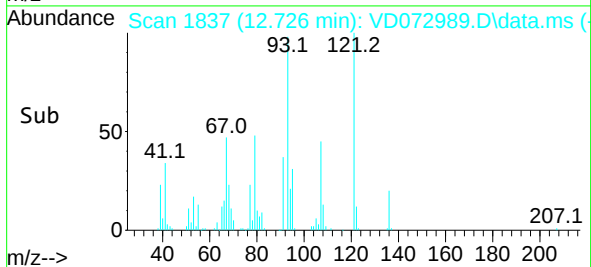
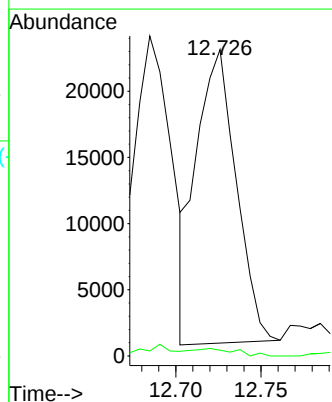
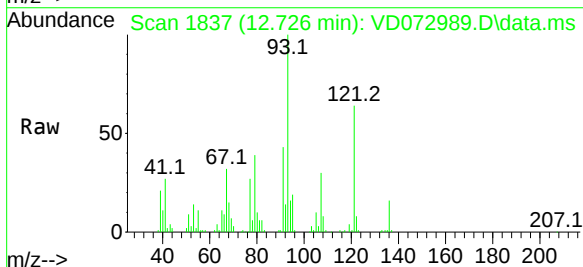
Instrument :
MSVOA_D
ClientSampleId :
PL-05-051222

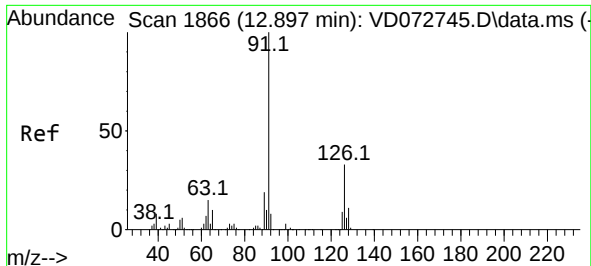
Tgt Ion: 75 Resp: 80731
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 2.291 ug/l
RT: 12.726 min Scan# 1837
Delta R.T. -0.082 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Tgt Ion: 91 Resp: 36140
Ion Ratio Lower Upper
91 100
120 2.8 10.9 32.9#

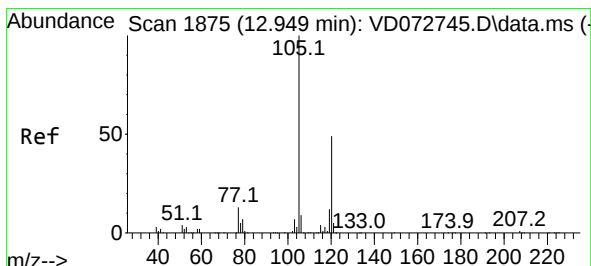
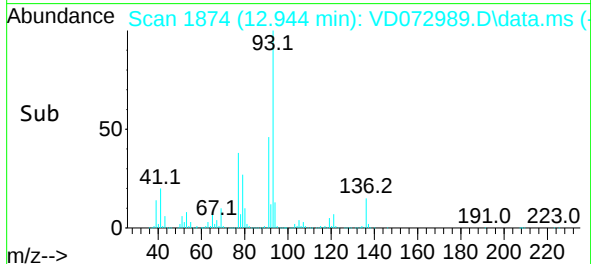
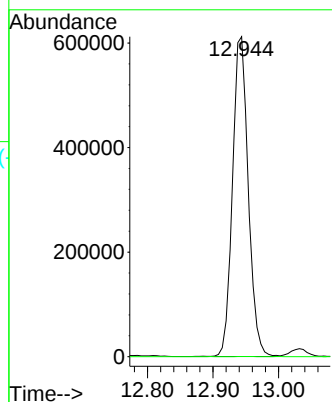
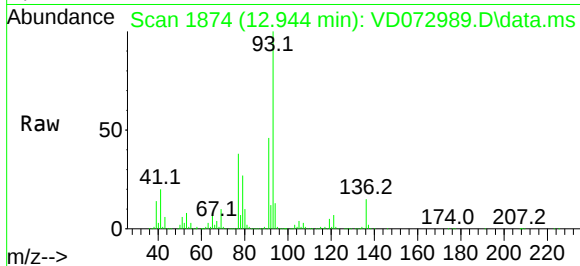




#79
2-Chlorotoluene
Concen: 111.041 ug/l
RT: 12.944 min Scan# 1866
Delta R.T. 0.047 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

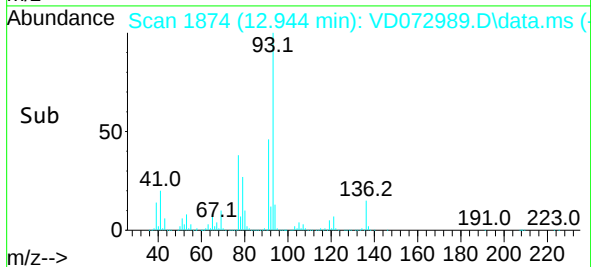
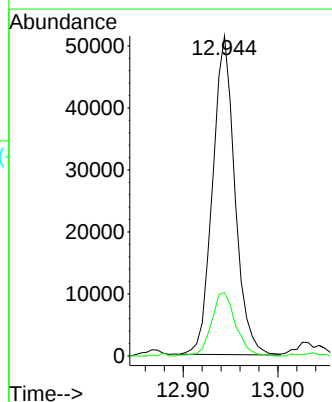
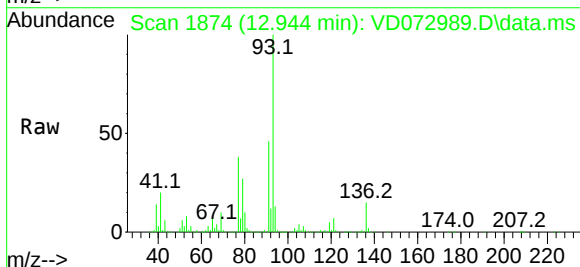
Instrument :
MSVOA_D
ClientSampleId :
PL-05-051222

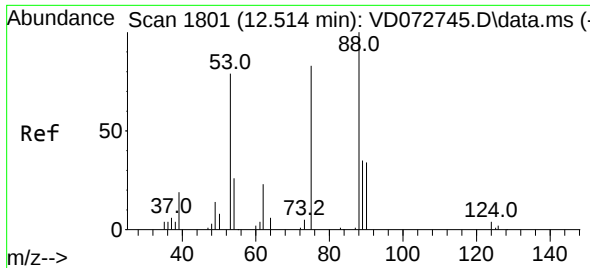
Tgt Ion: 91 Resp: 1023152
Ion Ratio Lower Upper
91 100
126 0.0 16.2 48.6#



#80
1,3,5-Trimethylbenzene
Concen: 7.914 ug/l
RT: 12.944 min Scan# 1874
Delta R.T. -0.005 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Tgt Ion: 105 Resp: 83986
Ion Ratio Lower Upper
105 100
120 21.6 24.3 72.8#

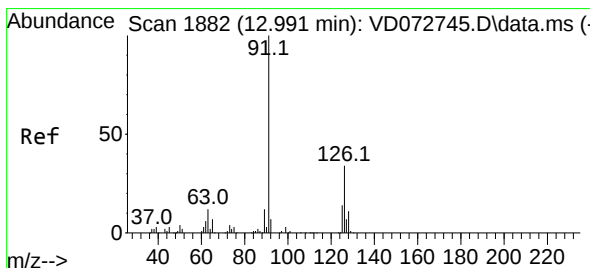
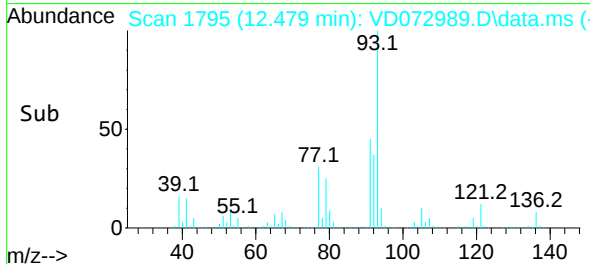
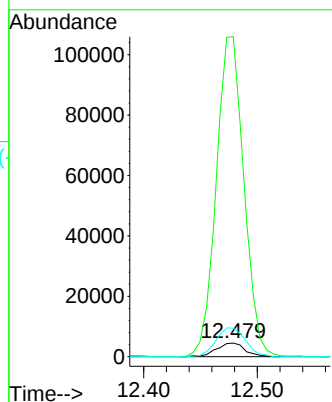
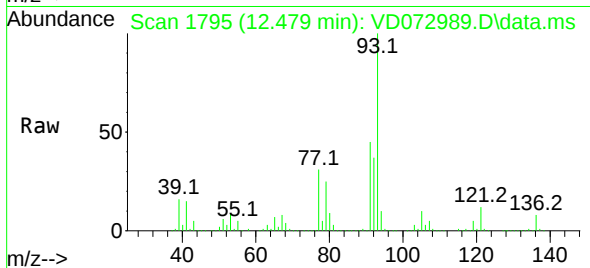




#81
trans-1,4-Dichloro-2-butene
Concen: 10.145 ug/l
RT: 12.479 min Scan# 11
Delta R.T. -0.035 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

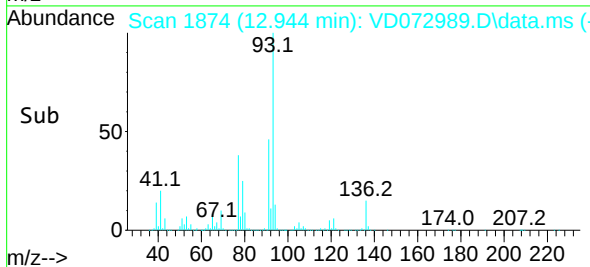
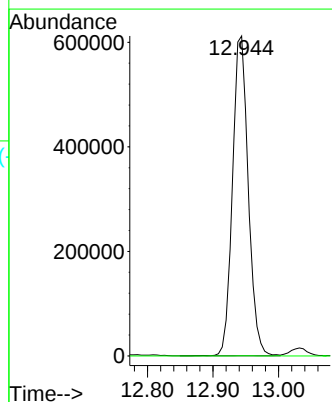
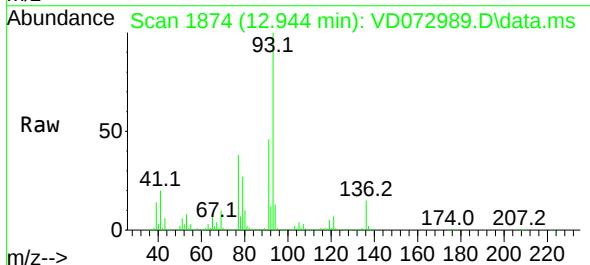
Instrument :
MSVOA_D
ClientSampleId :
PL-05-051222

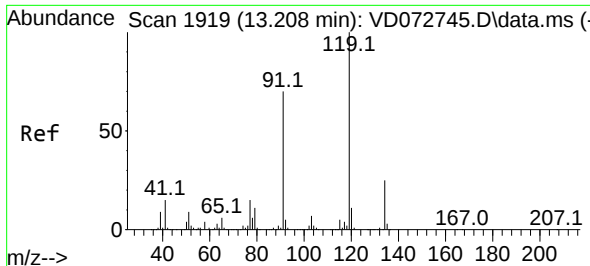
Tgt Ion: 75 Resp: 7913
Ion Ratio Lower Upper
75 100
53 2268.0 86.5 129.7#
89 218.4 33.9 50.9#



#82
4-Chlorotoluene
Concen: 106.276 ug/l
RT: 12.944 min Scan# 1874
Delta R.T. -0.047 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Tgt Ion: 91 Resp: 1023152
Ion Ratio Lower Upper
91 100
126 0.0 16.5 49.5#

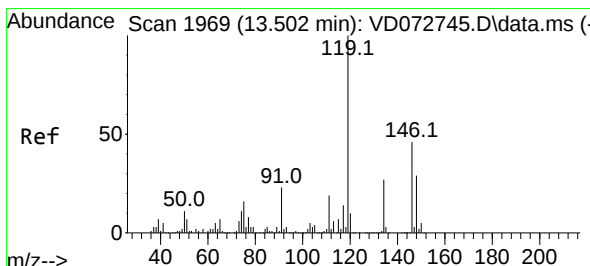
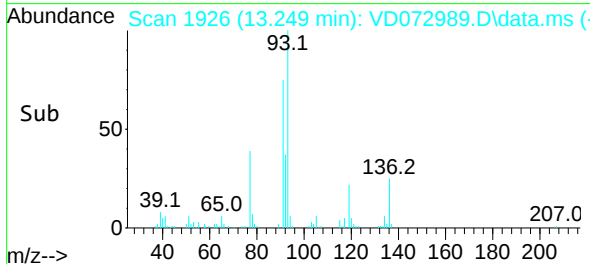
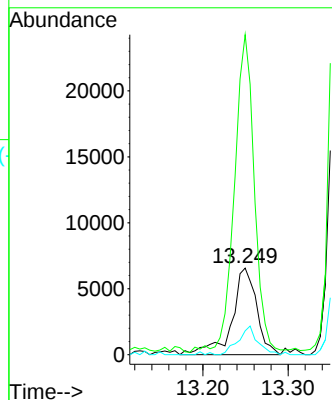
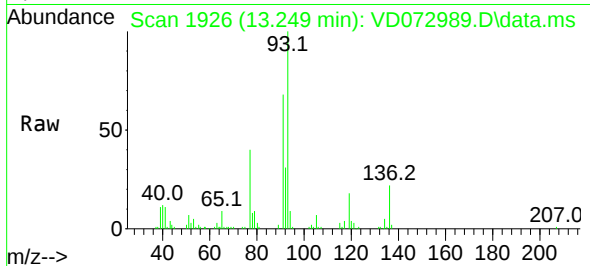




#83
tert-Butylbenzene
Concen: 1.459 ug/l
RT: 13.249 min Scan# 1919
Delta R.T. 0.041 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

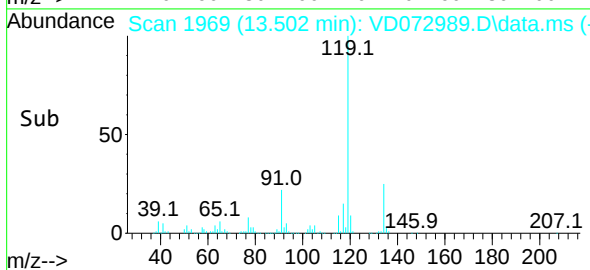
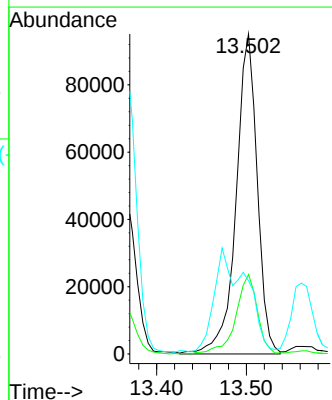
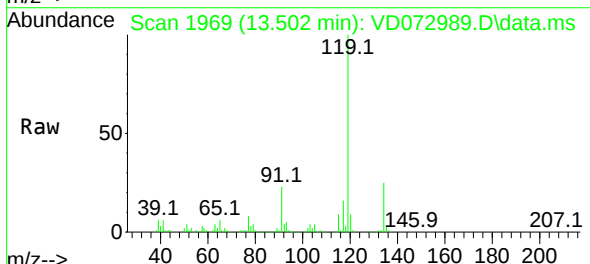
Instrument :
MSVOA_D
ClientSampleId :
PL-05-051222

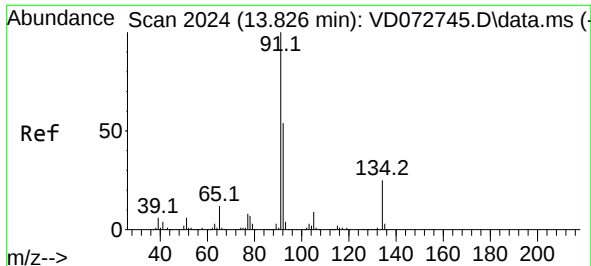
Tgt Ion:119 Resp: 13162
Ion Ratio Lower Upper
119 100
91 298.5 34.8 104.5#
134 26.3 13.3 39.9



#86
p-Isopropyltoluene
Concen: 13.917 ug/l
RT: 13.502 min Scan# 1969
Delta R.T. 0.000 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Tgt Ion:119 Resp: 155269
Ion Ratio Lower Upper
119 100
134 25.6 12.9 38.6
91 0.0 12.1 36.3#

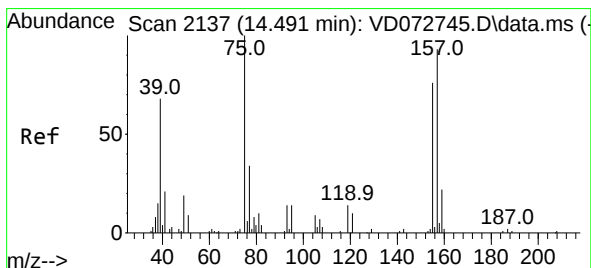
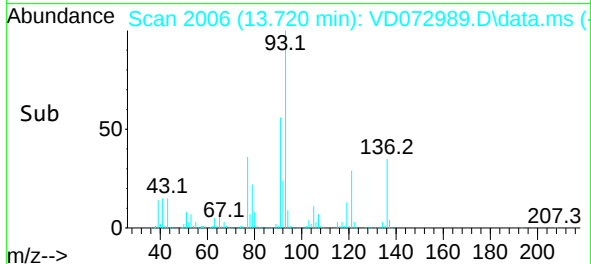
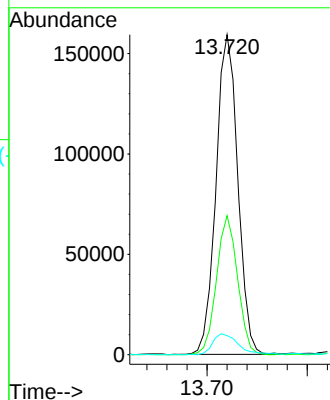
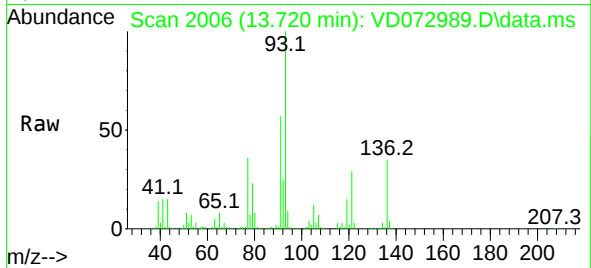




#89
n-Butylbenzene
Concen: 22.209 ug/l
RT: 13.720 min Scan# 20
Delta R.T. -0.106 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Instrument :
MSVOA_D
ClientSampleId :
PL-05-051222

Tgt Ion: 91 Resp: 240025
Ion Ratio Lower Upper
91 100
92 42.0 26.6 79.8
134 7.8 12.3 36.9#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.001 ug/l
RT: 14.432 min Scan# 2127
Delta R.T. -0.059 min
Lab File: VD072989.D
Acq: 13 May 2022 15:01

Tgt Ion: 75 Resp: 401
Ion Ratio Lower Upper
75 100
155 0.0 36.8 110.3#
157 0.0 48.4 145.0#

