

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD031221\
 Data File : VD068610.D
 Acq On : 12 Mar 2021 16:58
 Operator : VA/SY
 Sample : M1678-02
 Misc : 5.21G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 D2470-D2800(SOIL)-A

Quant Time: Mar 12 23:36:50 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D022621S.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 26 14:04:14 2021
 Response via : Initial Calibration

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

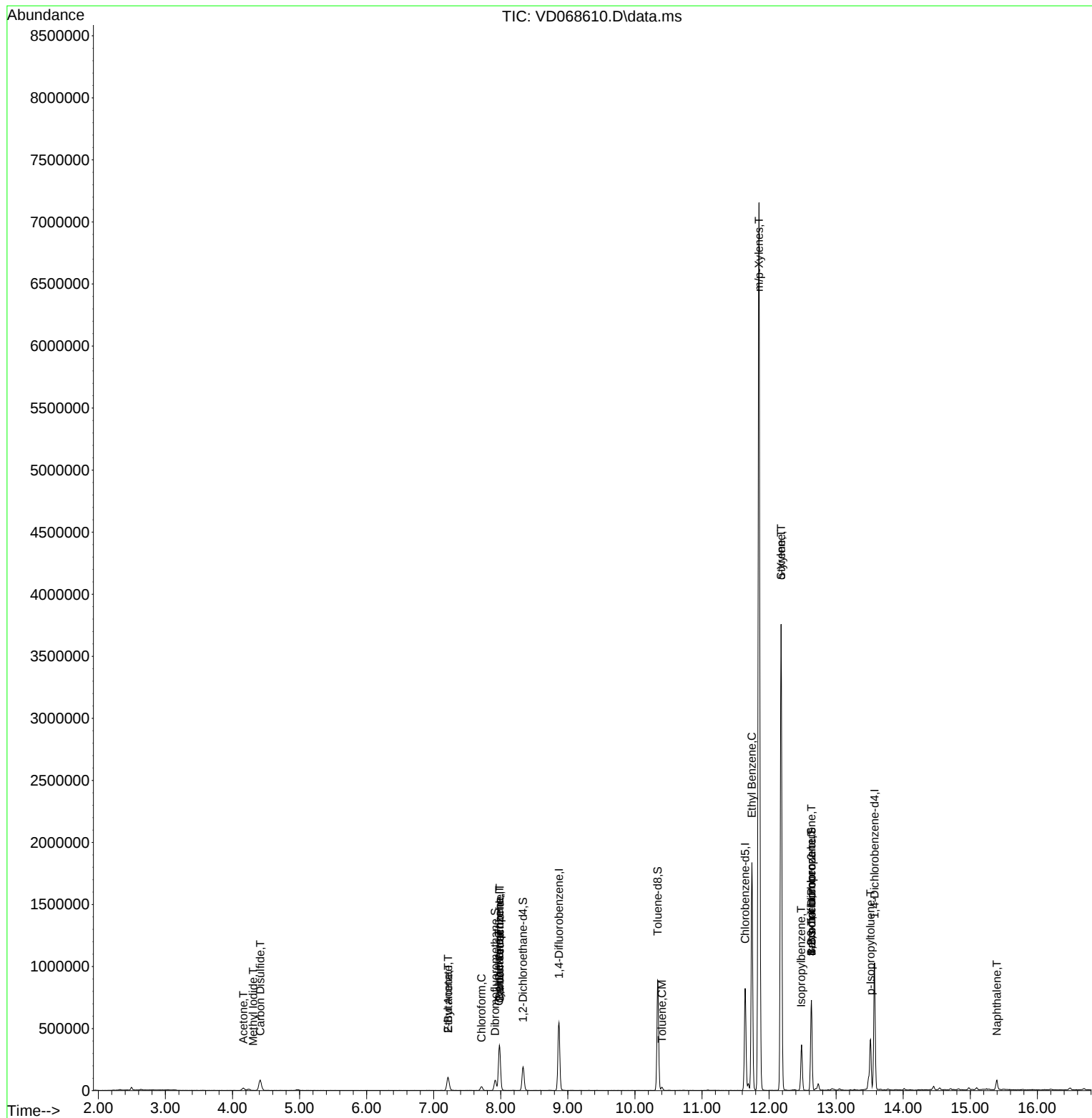
Internal Standards						
1) Pentafluorobenzene	7.979	168	280069	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	501853	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.643	117	487405	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	277002	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	154753	55.30	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.60%			
35) Dibromofluoromethane	7.914	113	60722	20.09	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 40.18%#			
50) Toluene-d8	10.338	98	625004	51.90	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 103.80%			
62) 4-Bromofluorobenzene	12.632	95	232764	59.98	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 119.96%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.309	142	56	2.63	ug/l #	38
16) Acetone	4.161	43	32308	72.69	ug/l #	73
17) Carbon Disulfide	4.414	76	180181	19.55	ug/l	96
20) Methylene Chloride	4.961	84	5167	Below Cal	#	90
25) 2-Butanone	7.214	43	164046	256.75	ug/l	97
30) Chloroform	7.714	83	30262	5.23	ug/l	100
31) Cyclohexane	7.973	56	5536	1.09	ug/l #	60
36) 1,1-Dichloropropene	7.979	75	21216	4.45	ug/l #	48
37) Ethyl Acetate	7.214	43	164046	103.64	ug/l #	64
38) Carbon Tetrachloride	7.985	117	27487	6.13	ug/l #	15
52) Toluene	10.402	92	10162	1.16	ug/l	92
67) Ethyl Benzene	11.743	91	1336877	75.45	ug/l	99
68) m/p-Xylenes	11.849	106	2277703	338.48	ug/l	99
69) o-Xylene	12.179	106	1046127	168.80	ug/l	97
70) Styrene	12.179	104	52901	4.99	ug/l #	1
71) Bromoform	12.632	173	1936	1.10	ug/l #	1
73) Isopropylbenzene	12.479	105	32249	1.57	ug/l	80
76) 1,2,3-Trichloropropane	12.632	75	120506	49.00	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.632	75	120506	114.36	ug/l #	13
86) p-Isopropyltoluene	13.514	119	237581	12.92	ug/l	97
95) Naphthalene	15.396	128	67508	6.22	ug/l	99

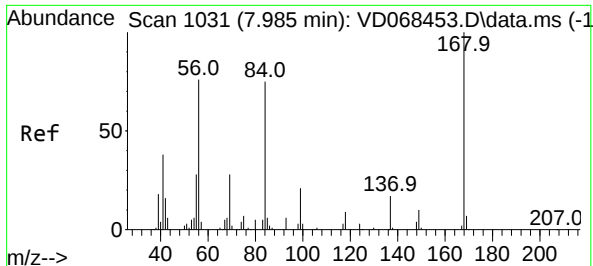
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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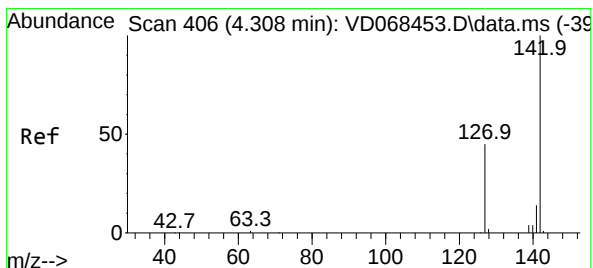
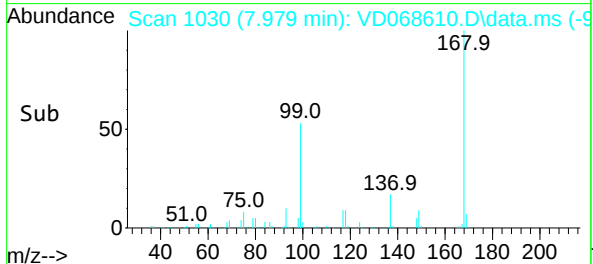
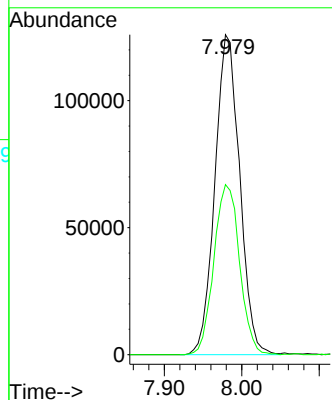
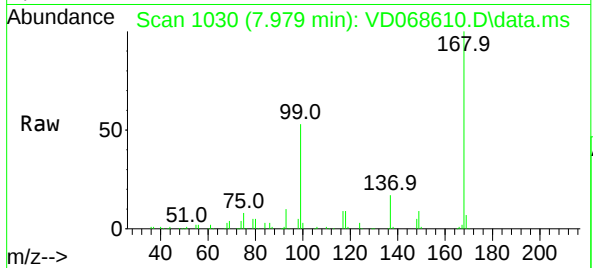




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

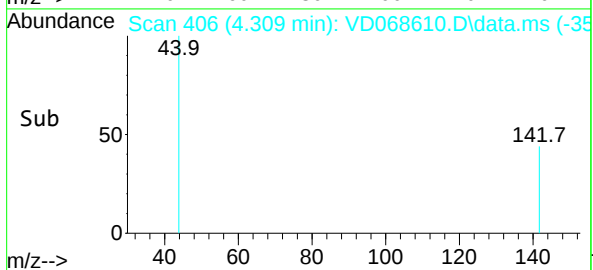
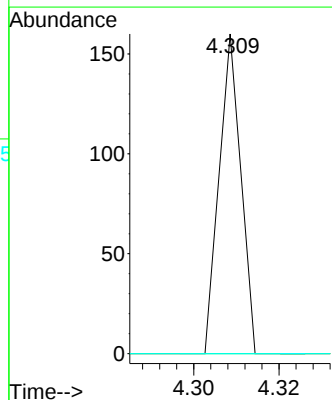
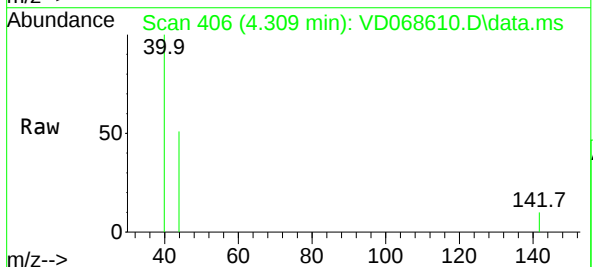
Instrument :
MSVOA_D
ClientSampleId :
D2470-D2800(SOIL)-A

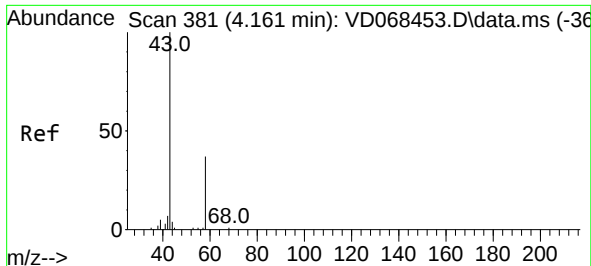
Tgt Ion:168 Resp: 280069
Ion Ratio Lower Upper
168 100
99 53.1 43.5 65.3



#10
Methyl Iodide
Concen: 2.63 ug/l
RT: 4.309 min Scan# 406
Delta R.T. 0.001 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

Tgt Ion:142 Resp: 56
Ion Ratio Lower Upper
142 100
127 0.0 37.9 56.9#
141 0.0 11.5 17.3#

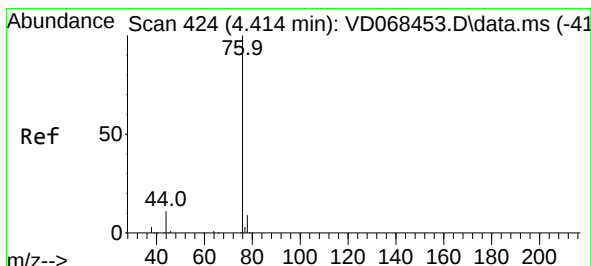
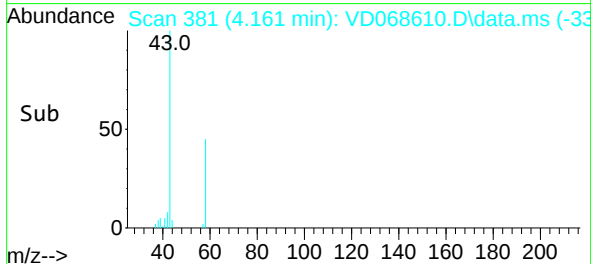
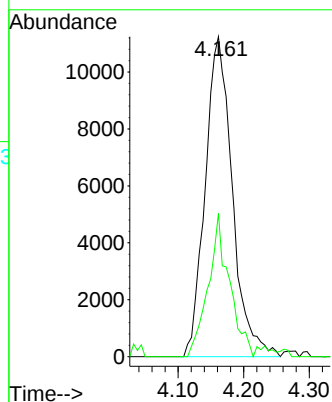
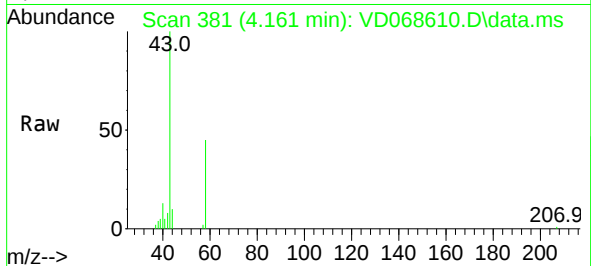




#16
Acetone
Concen: 72.69 ug/l
RT: 4.161 min Scan# 381
Delta R.T. 0.000 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

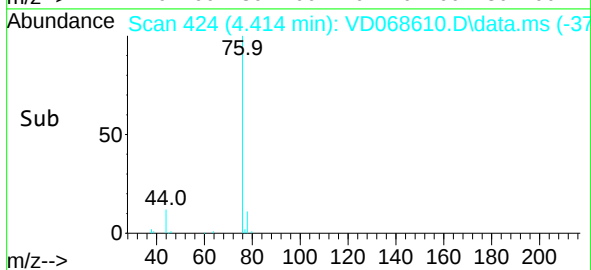
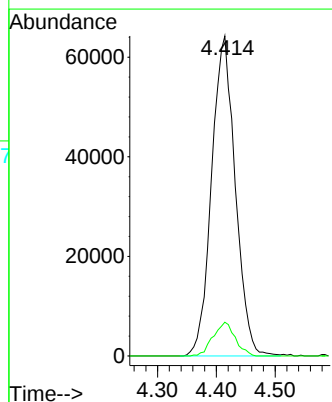
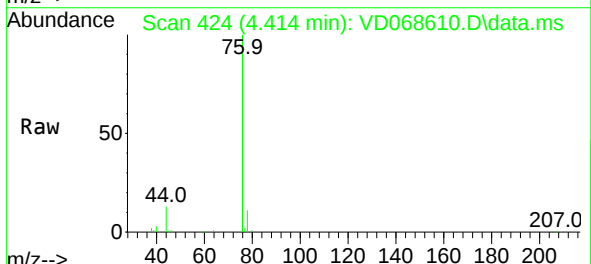
Instrument :
MSVOA_D
ClientSampleId :
D2470-D2800(SOIL)-A

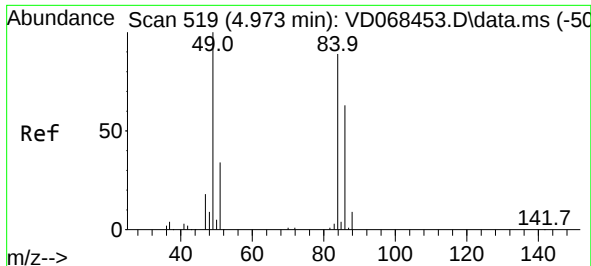
Tgt Ion: 43 Resp: 32308
Ion Ratio Lower Upper
43 100
58 44.9 24.2 36.4#



#17
Carbon Disulfide
Concen: 19.55 ug/l
RT: 4.414 min Scan# 424
Delta R.T. 0.000 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

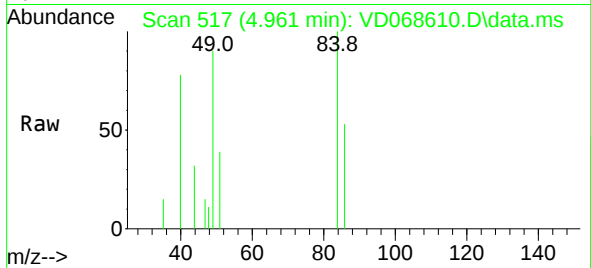
Tgt Ion: 76 Resp: 180181
Ion Ratio Lower Upper
76 100
78 10.6 7.3 10.9



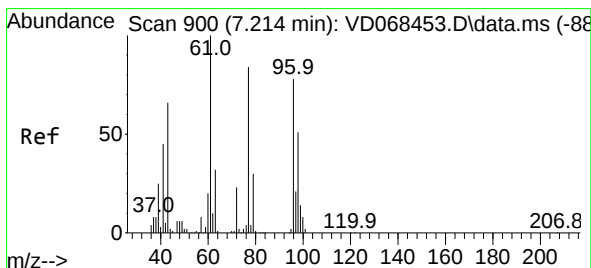
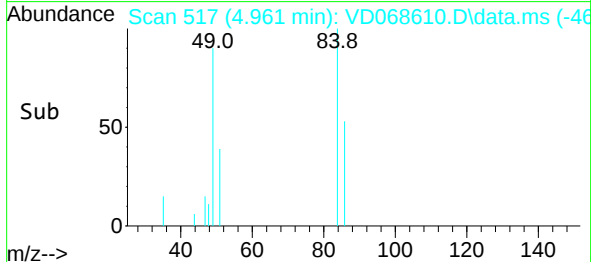
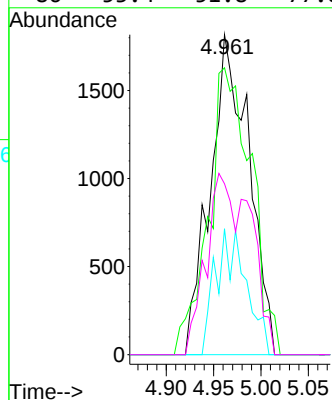


#20
Methylene Chloride
Concen: Below Cal
RT: 4.961 min Scan# 517
Delta R.T. -0.012 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

Instrument :
MSVOA_D
ClientSampleId :
D2470-D2800(SOIL)-A

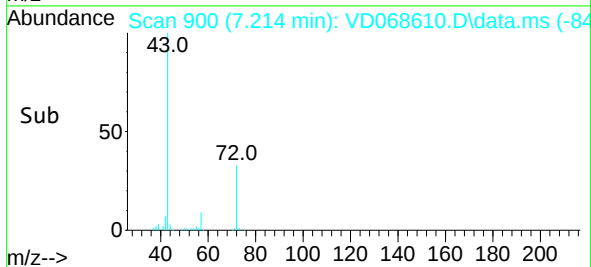
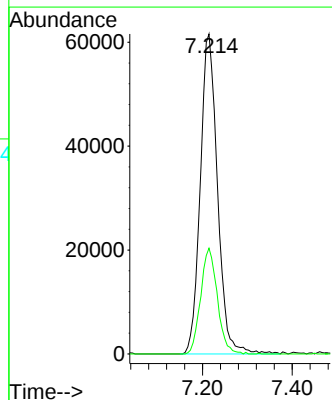
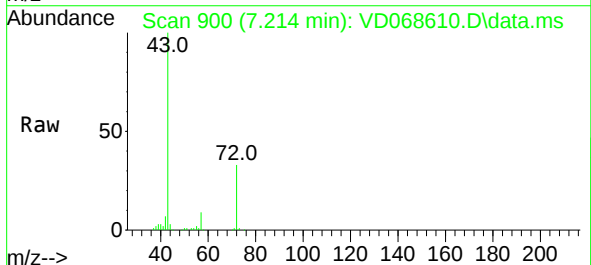


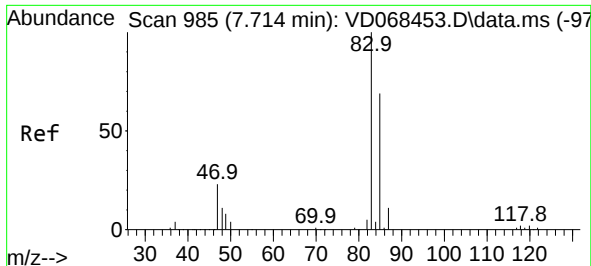
Tgt Ion:	84	Resp:	5167
Ion	Ratio	Lower	Upper
84	100		
49	89.7	77.4	116.2
51	39.4	26.1	39.1#
86	53.4	51.8	77.8



#25
2-Butanone
Concen: 256.75 ug/l
RT: 7.214 min Scan# 900
Delta R.T. 0.000 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

Tgt Ion:	43	Resp:	164046
Ion	Ratio	Lower	Upper
43	100		
72	33.0	25.1	37.7





#30

Chloroform

Concen: 5.23 ug/l

RT: 7.714 min Scan# 985

Delta R.T. 0.000 min

Lab File: VD068610.D

Acq: 12 Mar 2021 16:58

Tgt Ion: 83 Resp: 30262

Ion Ratio Lower Upper

83 100

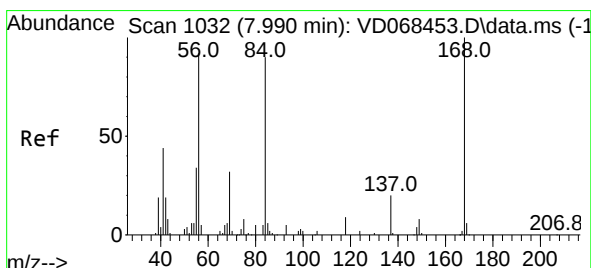
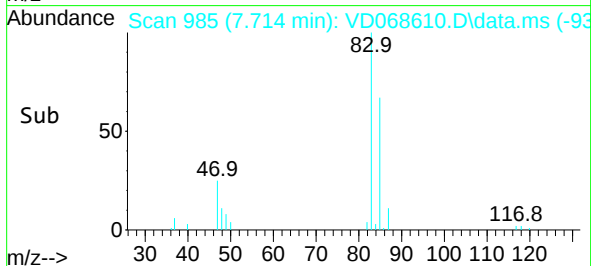
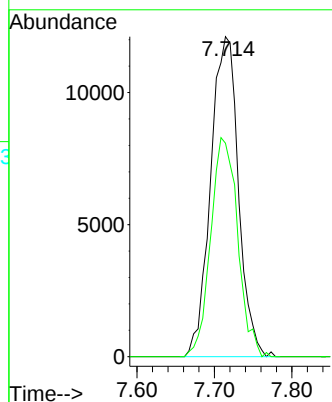
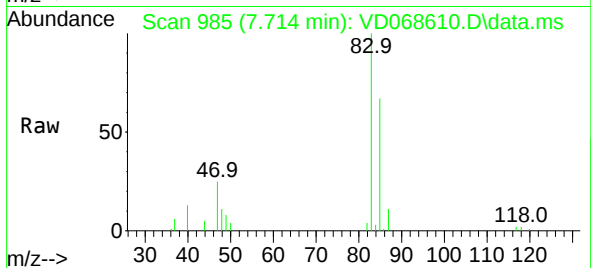
85 66.7 53.4 80.0

Instrument :

MSVOA_D

ClientSampleId :

D2470-D2800(SOIL)-A



#31

Cyclohexane

Concen: 1.09 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.017 min

Lab File: VD068610.D

Acq: 12 Mar 2021 16:58

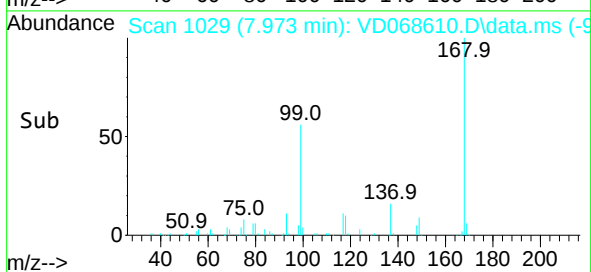
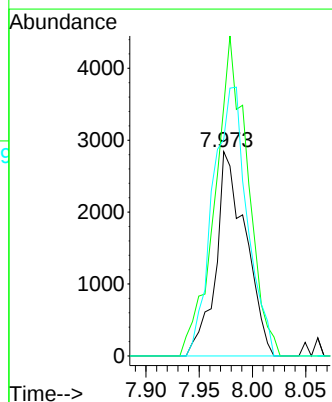
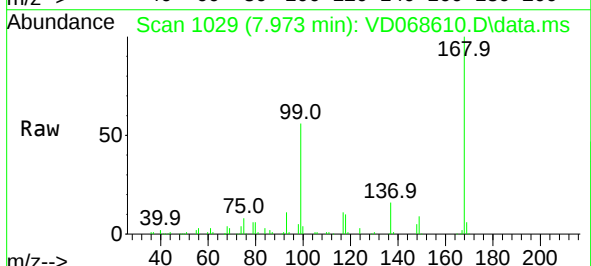
Tgt Ion: 56 Resp: 5536

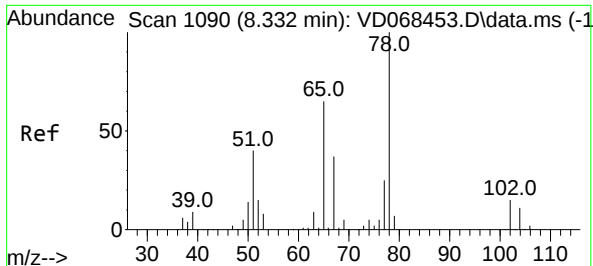
Ion Ratio Lower Upper

56 100

69 121.9 30.1 45.1#

84 105.9 82.1 123.1





#33

1,2-Dichloroethane-d4

Concen: 55.30 ug/l

RT: 8.332 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VD068610.D

Acq: 12 Mar 2021 16:58

Tgt Ion: 65 Resp: 154753

Ion Ratio Lower Upper

65 100

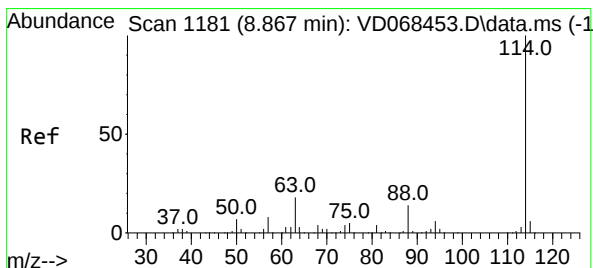
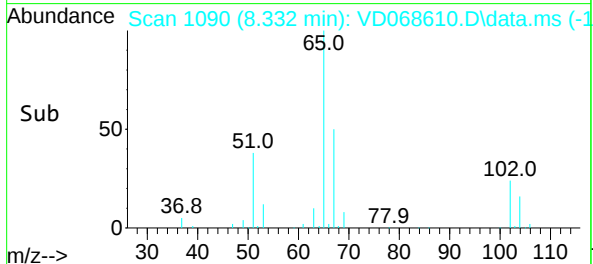
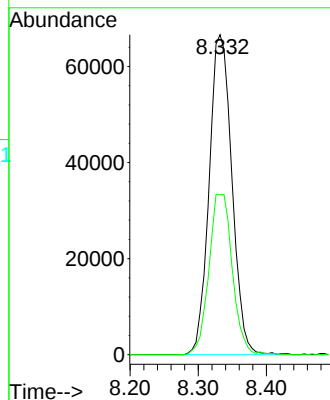
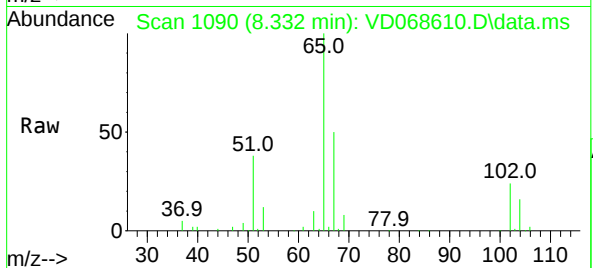
67 51.7 0.0 105.0

Instrument :

MSVOA_D

ClientSampleId :

D2470-D2800(SOIL)-A



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.867 min Scan# 1181

Delta R.T. 0.000 min

Lab File: VD068610.D

Acq: 12 Mar 2021 16:58

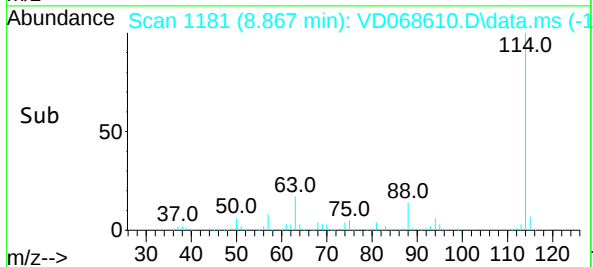
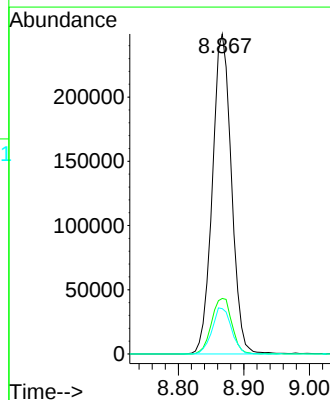
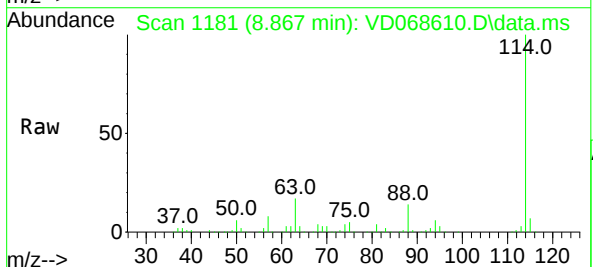
Tgt Ion: 114 Resp: 501853

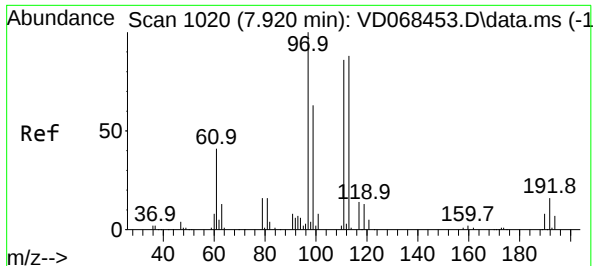
Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.8

88 14.2 0.0 31.6





#35

Dibromofluoromethane

Concen: 20.09 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD068610.D

Acq: 12 Mar 2021 16:58

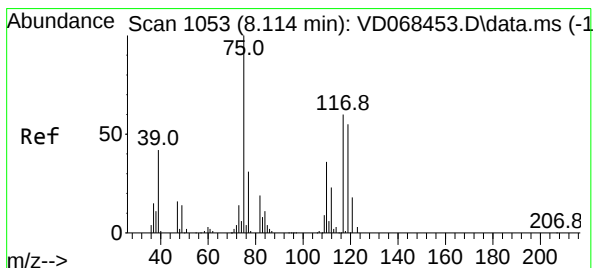
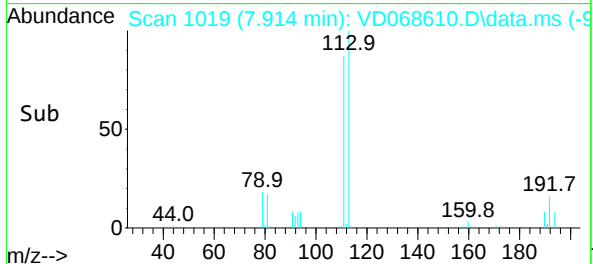
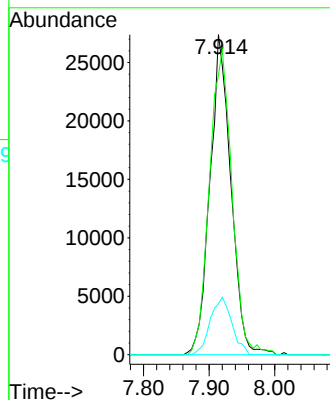
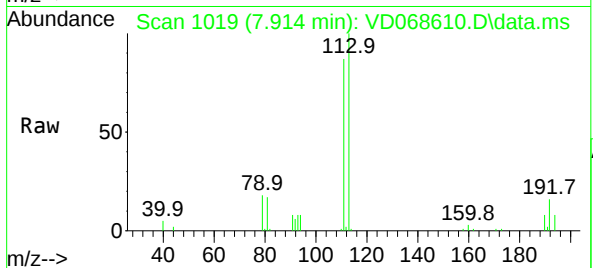
Tgt Ion:113 Resp: 60722

Ion Ratio Lower Upper

113 100

111 103.1 81.4 122.0

192 18.5 16.1 24.1



#36

1,1-Dichloropropene

Concen: 4.45 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.135 min

Lab File: VD068610.D

Acq: 12 Mar 2021 16:58

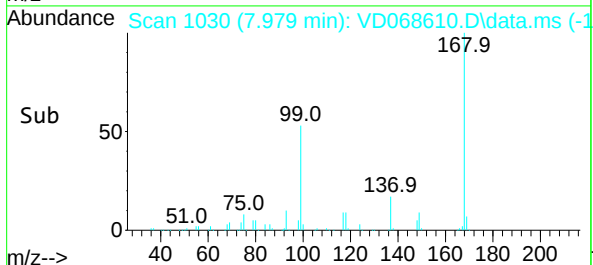
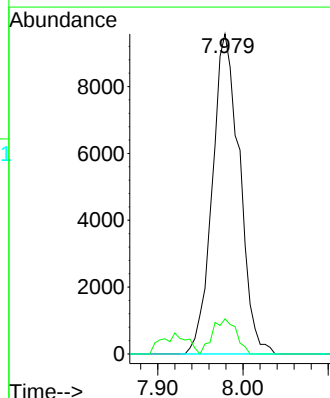
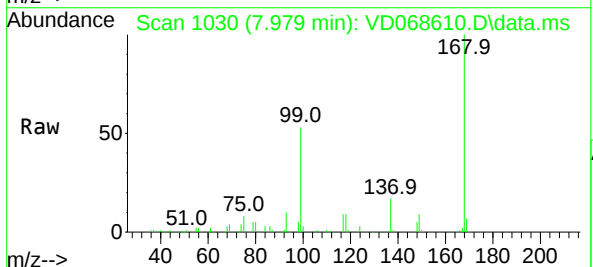
Tgt Ion: 75 Resp: 21216

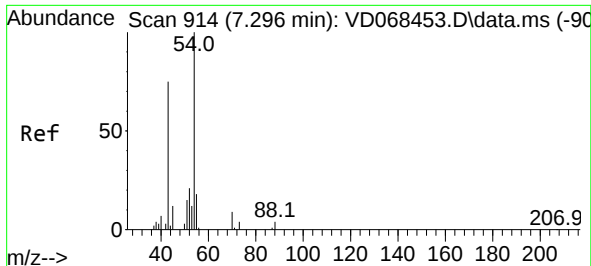
Ion Ratio Lower Upper

75 100

110 9.5 19.4 58.2#

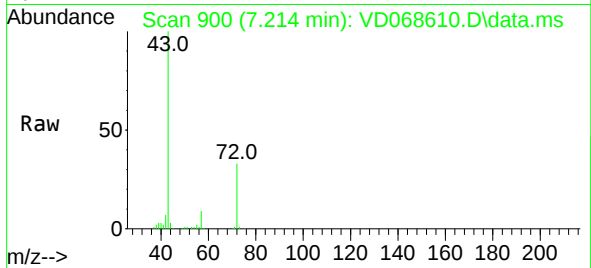
77 0.0 25.3 37.9#



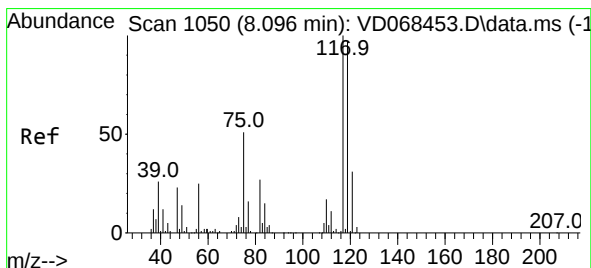
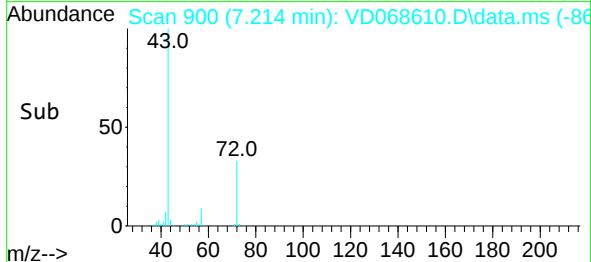
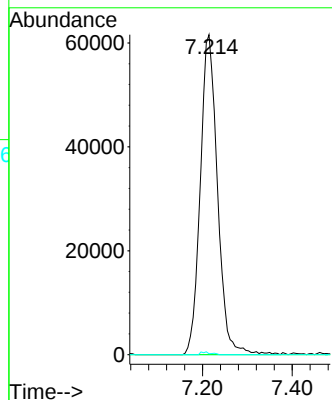


#37
Ethyl Acetate
Concen: 103.64 ug/l
RT: 7.214 min Scan# 900
Delta R.T. -0.082 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

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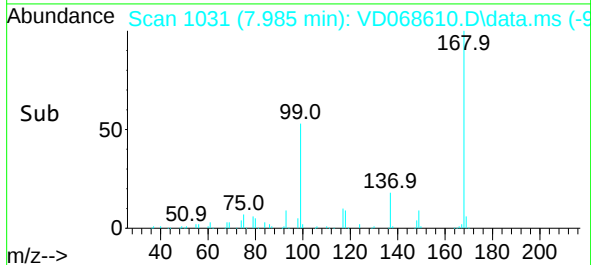
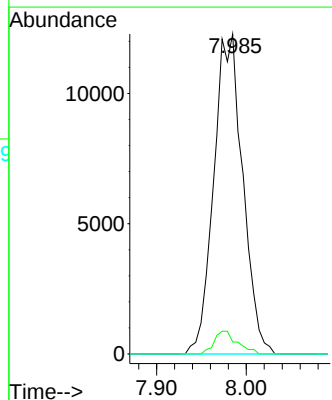
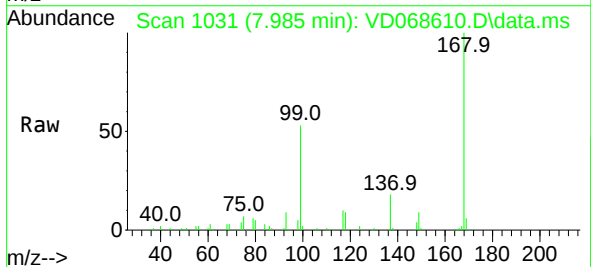


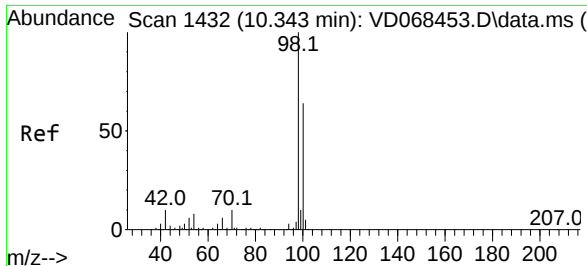
Tgt Ion: 43 Resp: 164046
Ion Ratio Lower Upper
43 100
61 0.0 12.9 19.3#
70 0.5 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 6.13 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.112 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

Tgt Ion: 117 Resp: 27487
Ion Ratio Lower Upper
117 100
119 3.8 77.3 115.9#
121 0.0 24.7 37.1#

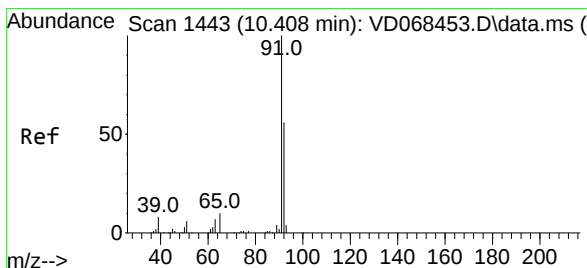
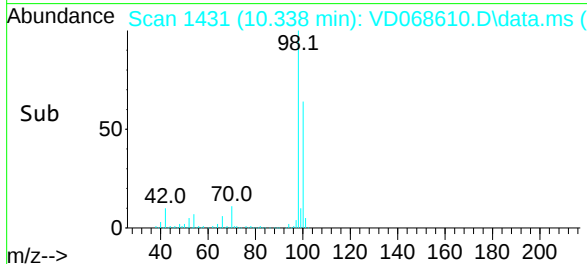
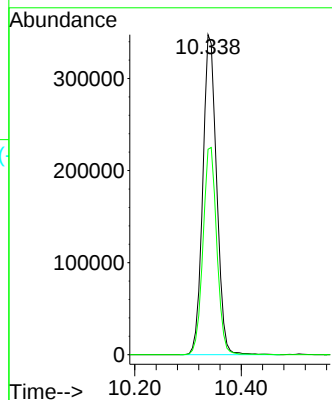
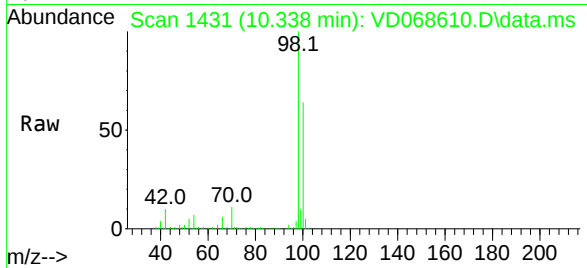




#50
Toluene-d8
Concen: 51.90 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

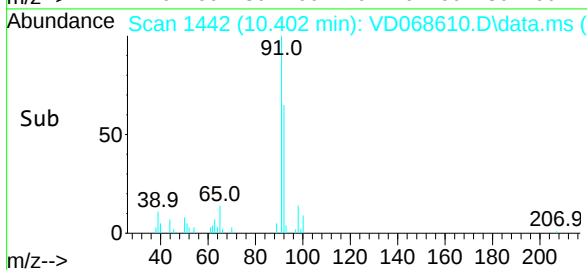
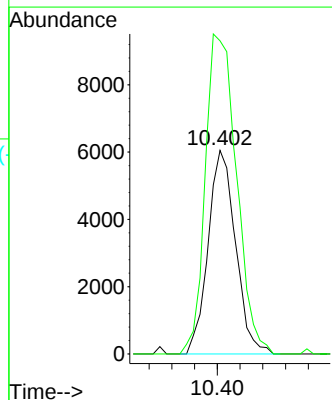
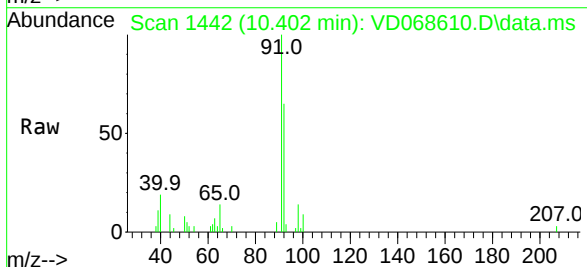
Instrument :
MSVOA_D
ClientSampleId :
D2470-D2800(SOIL)-A

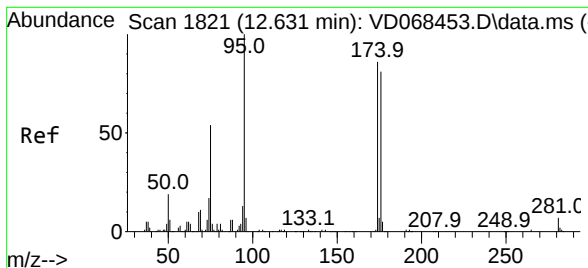
Tgt Ion: 98 Resp: 625004
Ion Ratio Lower Upper
98 100
100 64.8 53.0 79.4



#52
Toluene
Concen: 1.16 ug/l
RT: 10.402 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

Tgt Ion: 92 Resp: 10162
Ion Ratio Lower Upper
92 100
91 178.4 134.1 201.1

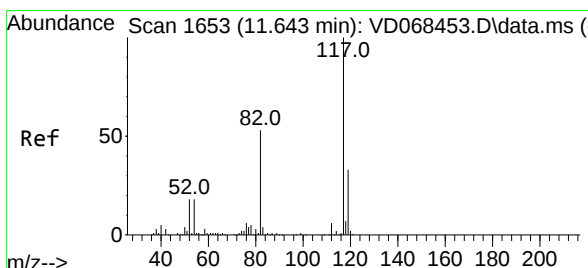
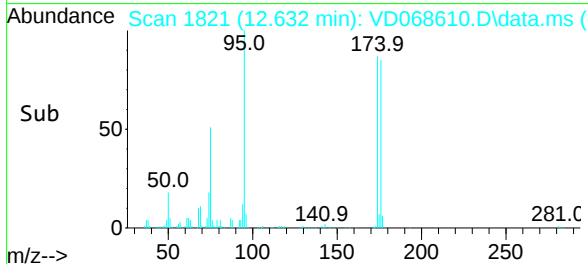
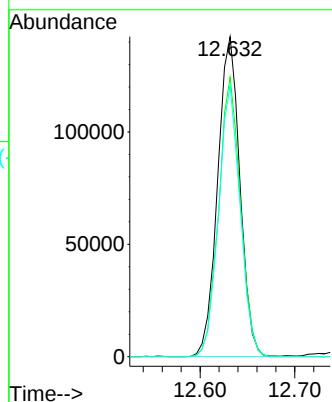
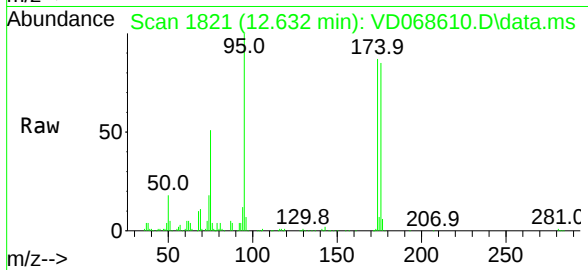




#62
4-Bromofluorobenzene
Concen: 59.98 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.000 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

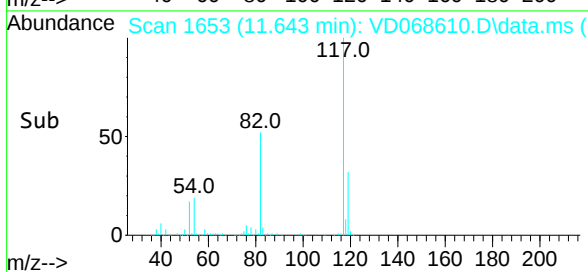
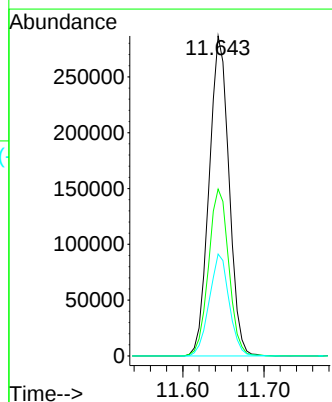
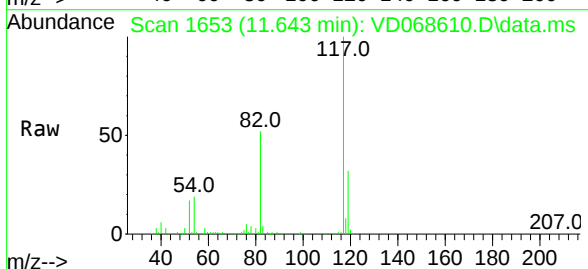
Instrument :
MSVOA_D
ClientSampleId :
D2470-D2800(SOIL)-A

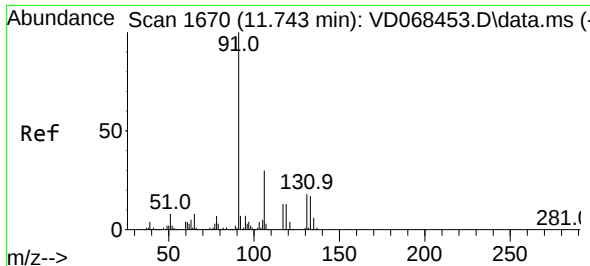
Tgt Ion: 95 Resp: 232764
Ion Ratio Lower Upper
95 100
174 85.4 0.0 172.4
176 81.9 0.0 168.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.643 min Scan# 1653
Delta R.T. 0.000 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

Tgt Ion: 117 Resp: 487405
Ion Ratio Lower Upper
117 100
82 52.2 41.4 62.0
119 31.8 26.1 39.1

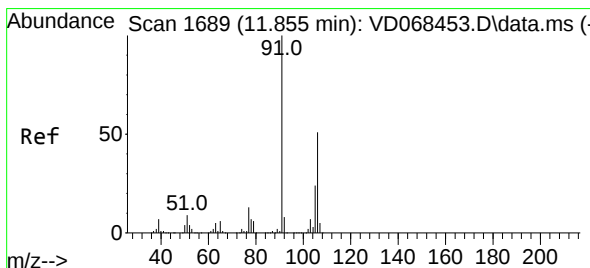
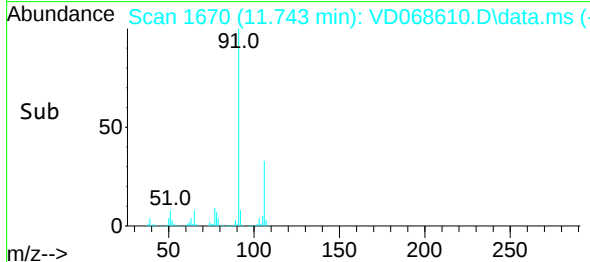
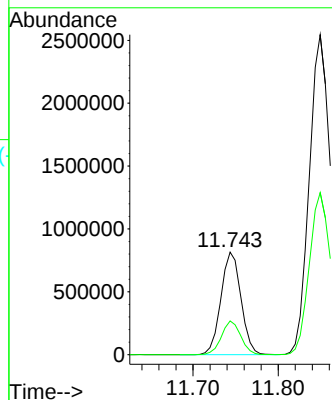
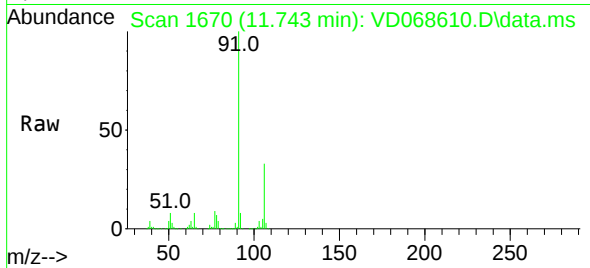




#67
Ethyl Benzene
Concen: 75.45 ug/l
RT: 11.743 min Scan# 1670
Delta R.T. 0.000 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

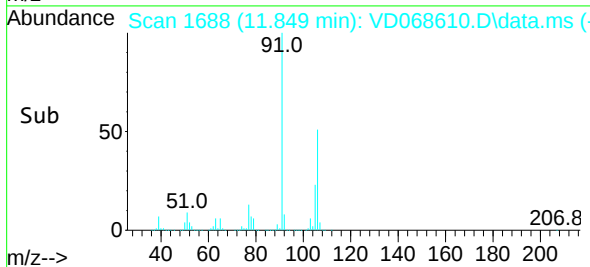
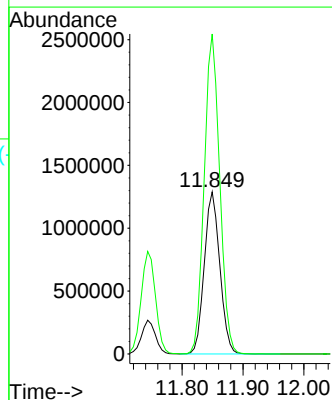
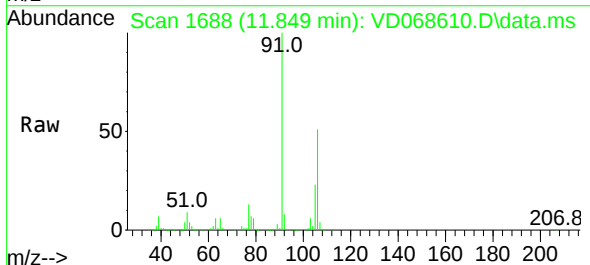
Instrument :
MSVOA_D
ClientSampleId :
D2470-D2800(SOIL)-A

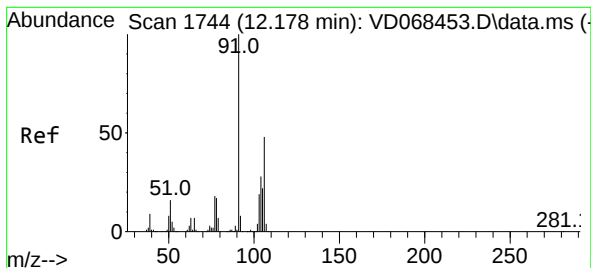
Tgt Ion: 91 Resp: 1336877
Ion Ratio Lower Upper
91 100
106 32.9 25.9 38.9



#68
m/p-Xylenes
Concen: 338.48 ug/l
RT: 11.849 min Scan# 1688
Delta R.T. -0.006 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

Tgt Ion:106 Resp: 2277703
Ion Ratio Lower Upper
106 100
91 197.0 159.1 238.7

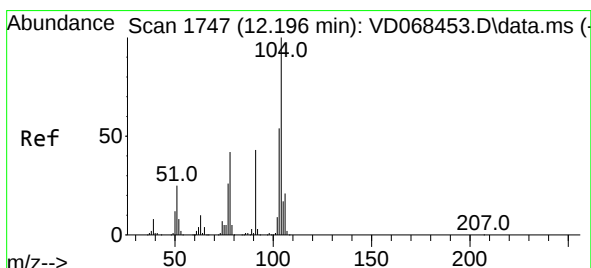
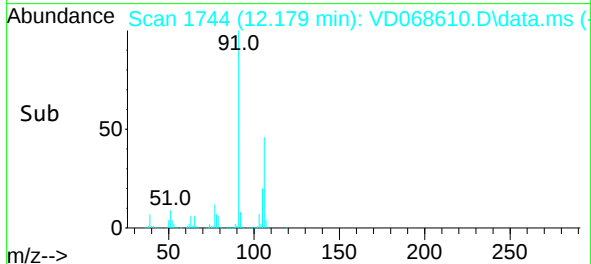
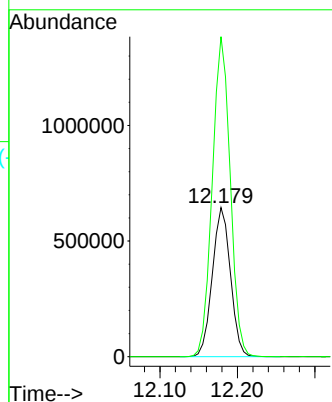
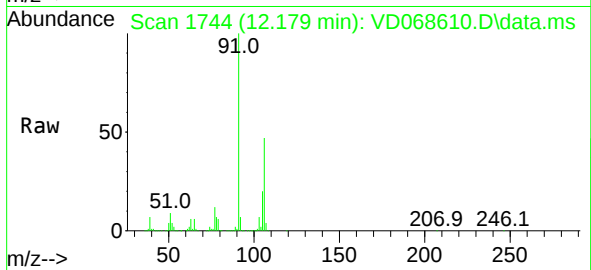




#69
o-Xylene
Concen: 168.80 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

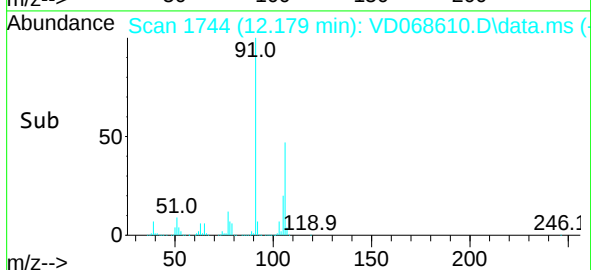
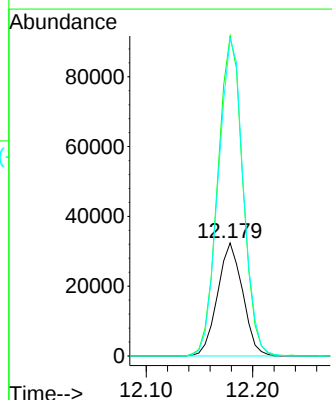
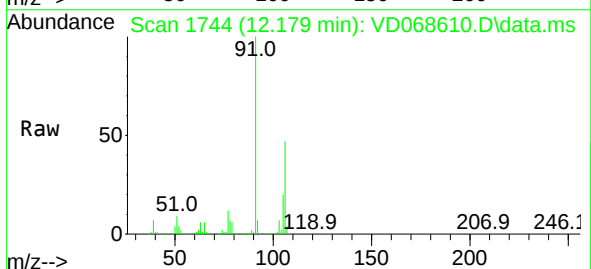
Instrument :
MSVOA_D
ClientSampleId :
D2470-D2800(SOIL)-A

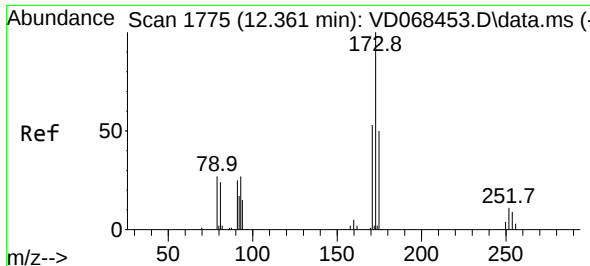
Tgt Ion:106 Resp: 1046127
Ion Ratio Lower Upper
106 100
91 212.8 108.7 325.9



#70
Styrene
Concen: 4.99 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. -0.017 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

Tgt Ion:104 Resp: 52901
Ion Ratio Lower Upper
104 100
78 282.6 38.2 57.2#
103 279.9 43.1 64.7#

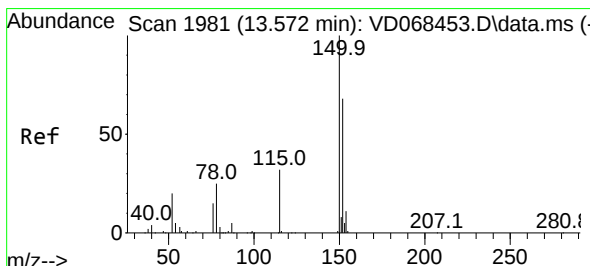
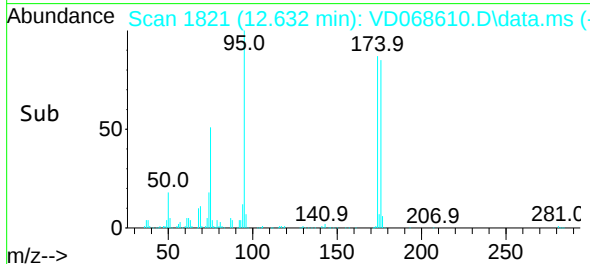
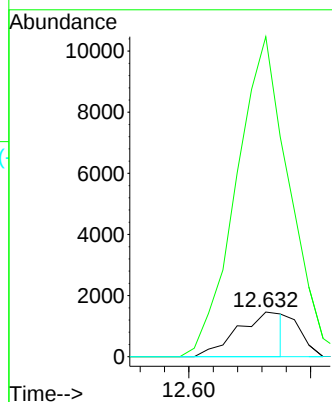
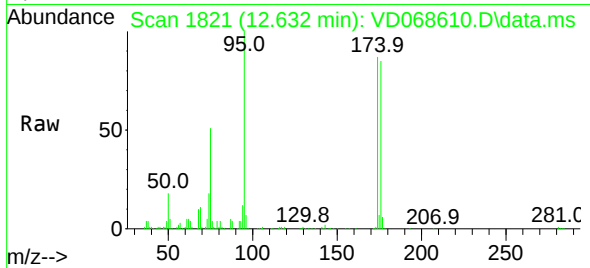




#71
Bromoform
Concen: 1.10 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.271 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

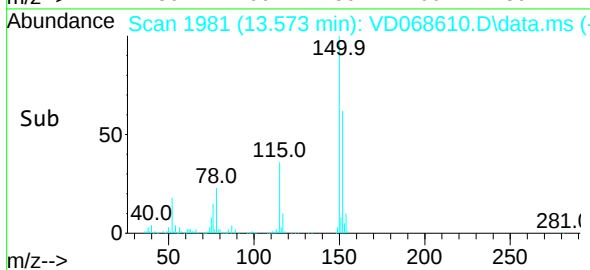
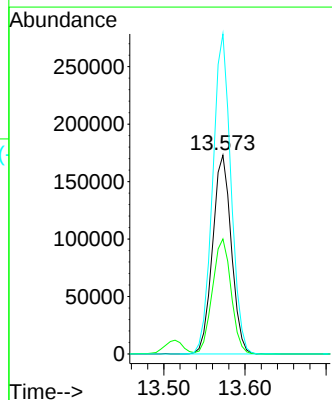
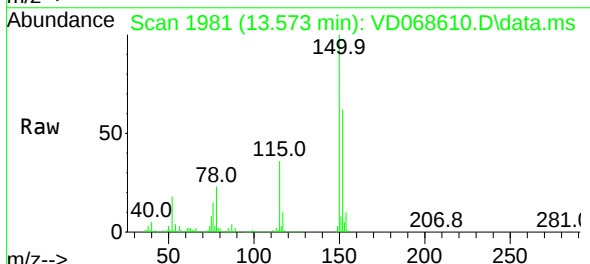
Instrument :
MSVOA_D
ClientSampleId :
D2470-D2800(SOIL)-A

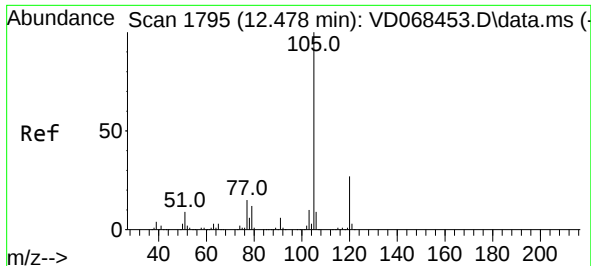
Tgt Ion:173 Resp: 1936
Ion Ratio Lower Upper
173 100
175 674.0 24.6 73.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. 0.001 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

Tgt Ion:152 Resp: 277002
Ion Ratio Lower Upper
152 100
115 57.8 28.9 86.8
150 157.2 0.0 344.4

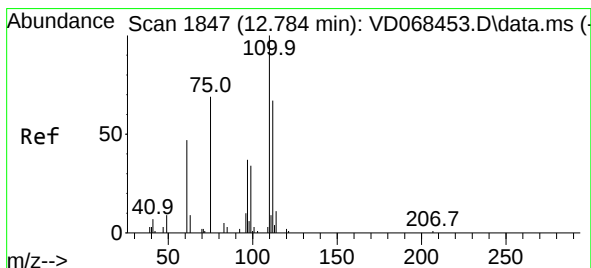
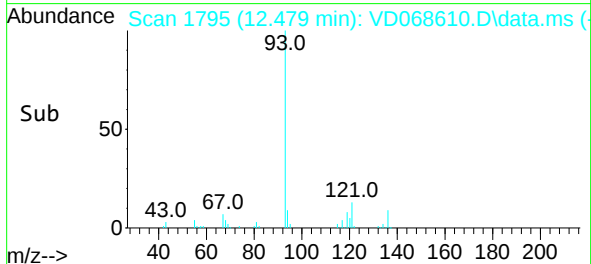
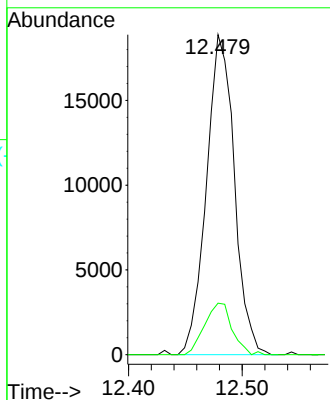
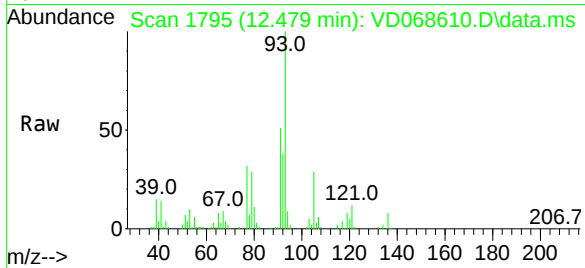




#73
Isopropylbenzene
Concen: 1.57 ug/l
RT: 12.479 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

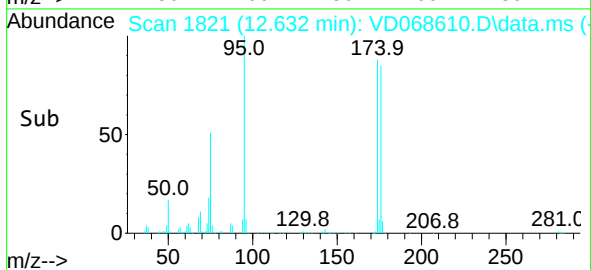
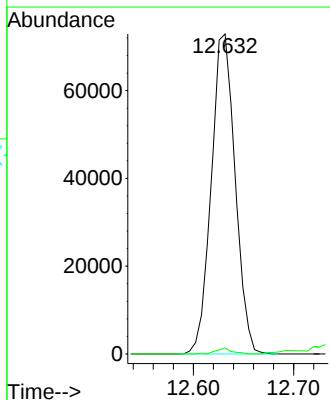
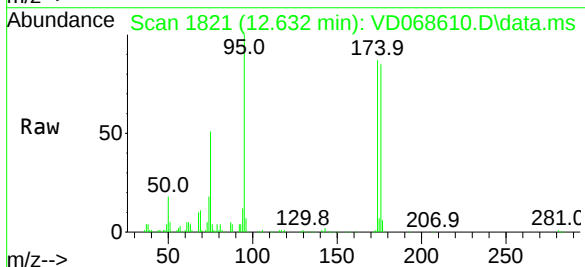
Instrument :
MSVOA_D
ClientSampleId :
D2470-D2800(SOIL)-A

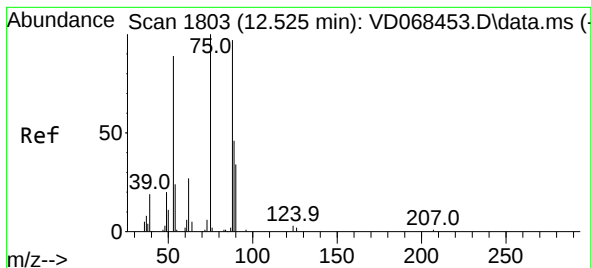
Tgt Ion:105 Resp: 32249
Ion Ratio Lower Upper
105 100
120 15.9 13.2 39.6



#76
1,2,3-Trichloropropane
Concen: 49.00 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.152 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

Tgt Ion: 75 Resp: 120506
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

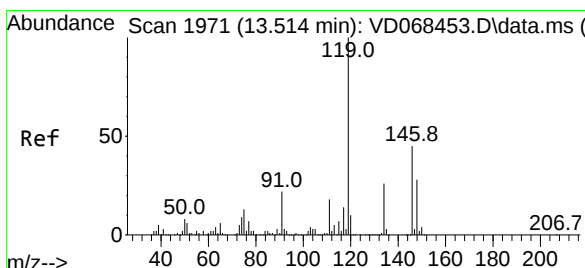
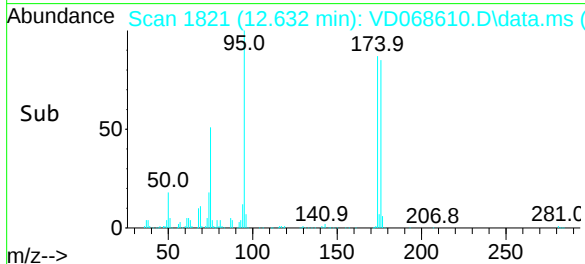
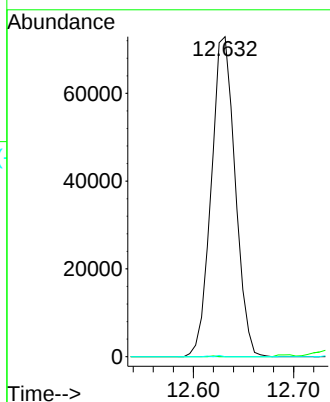
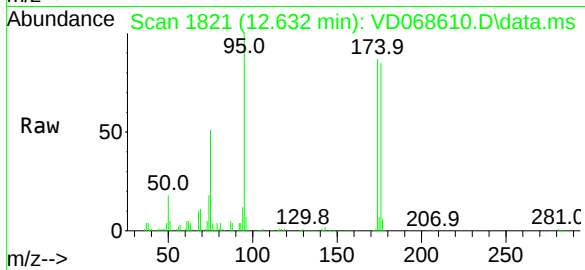




#81
trans-1,4-Dichloro-2-butene
Concen: 114.36 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

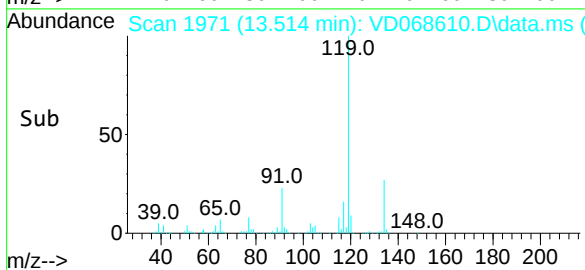
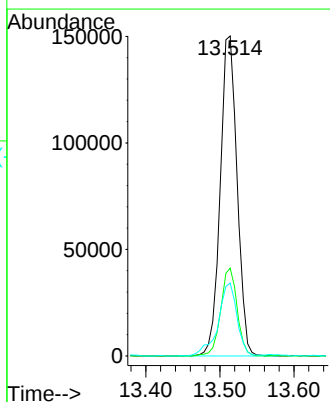
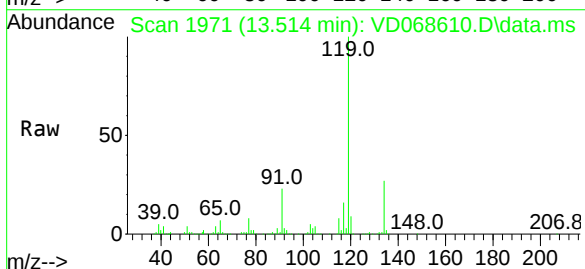
Instrument :
MSVOA_D
ClientSampleId :
D2470-D2800(SOIL)-A

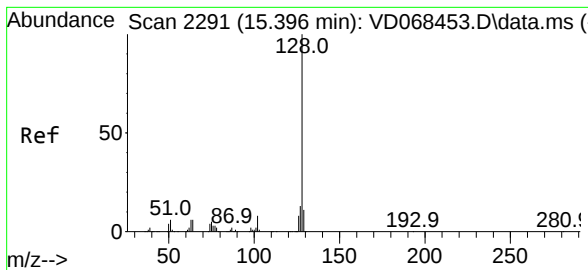
Tgt Ion: 75 Resp: 120506
Ion Ratio Lower Upper
75 100
53 0.0 70.2 105.2#
89 0.1 40.3 60.5#



#86
p-Isopropyltoluene
Concen: 12.92 ug/l
RT: 13.514 min Scan# 1971
Delta R.T. 0.000 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

Tgt Ion: 119 Resp: 237581
Ion Ratio Lower Upper
119 100
134 26.7 12.9 38.7
91 25.7 11.7 35.0





#95
Naphthalene
Concen: 6.22 ug/l
RT: 15.396 min Scan# 2291
Delta R.T. 0.000 min
Lab File: VD068610.D
Acq: 12 Mar 2021 16:58

Instrument :
MSVOA_D
ClientSampleId :
D2470-D2800(SOIL)-A

Tgt Ion:128 Resp: 67508
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.2
129 11.6 8.8 13.2

