

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD020822\
 Data File : VD071912.D
 Acq On : 08 Feb 2022 12:29
 Operator : VA/SY
 Sample : N1423-02
 Misc : 5.01G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-21

Quant Time: Feb 09 03:49:54 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D012622S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 27 06:04:38 2022
 Response via : Initial Calibration

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

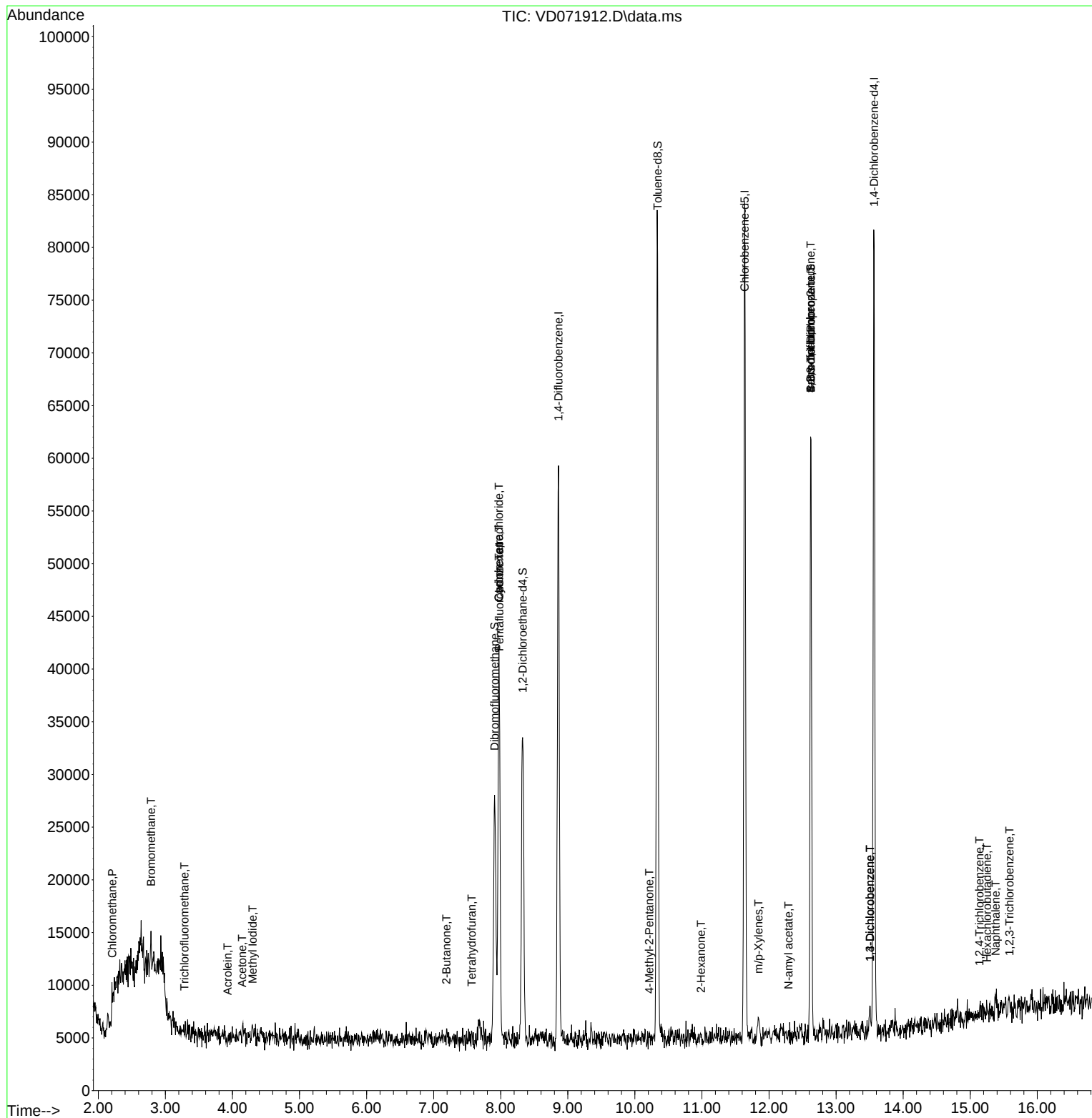
Internal Standards						
1) Pentafluorobenzene	7.979	168	23569	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	43017	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	42849	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	19462	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	24440	82.041	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 164.080%#	
35) Dibromofluoromethane	7.908	113	15567	55.053	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 110.100%	
50) Toluene-d8	10.338	98	51522	48.789	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 97.580%	
62) 4-Bromofluorobenzene	12.620	95	18467	50.076	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 100.160%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.209	50	880	2.630	ug/l #	78
5) Bromomethane	2.785	94	1489	6.442	ug/l	92
7) Trichlorofluoromethane	3.285	101	525	1.046	ug/l #	19
10) Methyl Iodide	4.303	142	991	3.413	ug/l #	79
13) Acrolein	3.926	56	61	2.305	ug/l #	14
16) Acetone	4.144	43	862	10.571	ug/l #	47
20) Methylene Chloride	4.973	84	89	Below Cal	#	2
25) 2-Butanone	7.191	43	199	2.093	ug/l #	52
29) Tetrahydrofuran	7.567	42	157	2.791	ug/l #	66
31) Cyclohexane	7.973	56	1123	1.975	ug/l #	52
38) Carbon Tetrachloride	7.973	117	2918	6.080	ug/l #	13
51) 4-Methyl-2-Pentanone	10.214	43	272	1.282	ug/l #	77
59) 2-Hexanone	10.985	43	543	3.525	ug/l #	50
68) m/p-Xylenes	11.844	106	831	1.310	ug/l	78
71) Bromoform	12.620	173	207	1.176	ug/l #	29
74) N-amyl acetate	12.291	43	447	1.206	ug/l #	45
76) 1,2,3-Trichloropropane	12.620	75	9716	47.371	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.620	75	9716	116.474	ug/l #	7
87) 1,3-Dichlorobenzene	13.508	146	685	1.006	ug/l	67
88) 1,4-Dichlorobenzene	13.508	146	685	1.008	ug/l	68
93) 1,2,4-Trichlorobenzene	15.137	180	767	2.254	ug/l #	73
94) Hexachlorobutadiene	15.249	225	305	1.644	ug/l	80
95) Naphthalene	15.379	128	1657	3.834	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.585	180	657	2.252	ug/l #	72

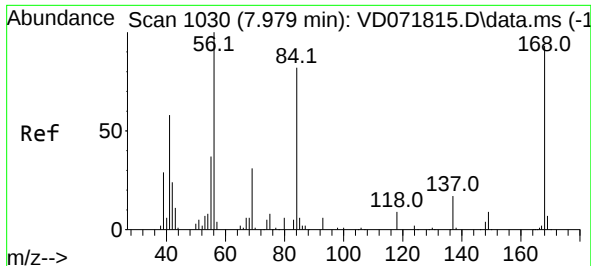
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 09 03:49:54 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D012622S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 27 06:04:38 2022
Response via : Initial Calibration

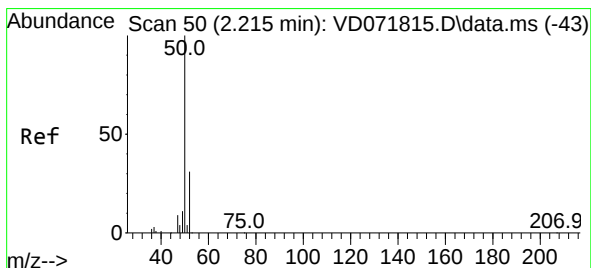
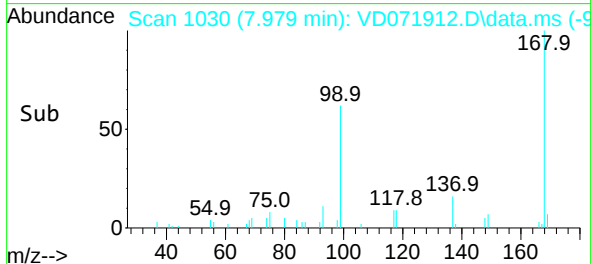
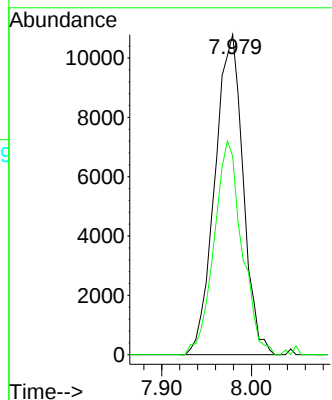
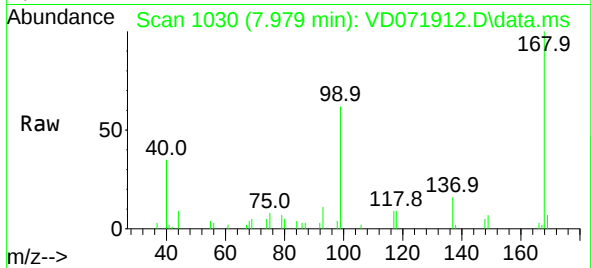




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. 0.000 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

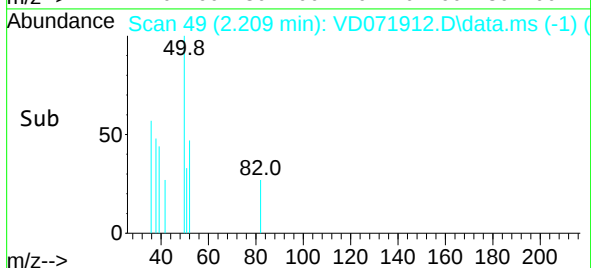
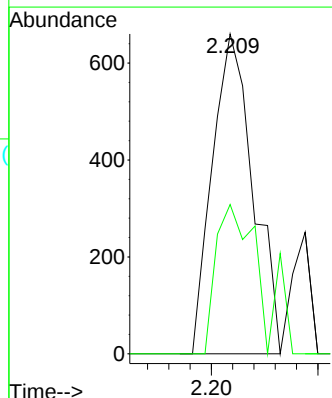
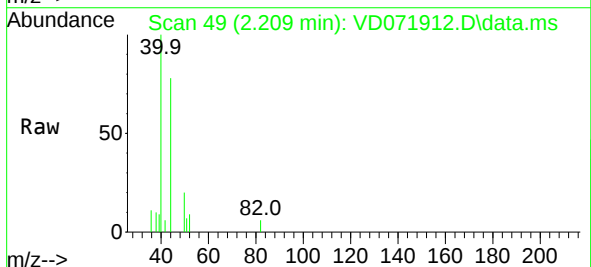
Instrument :
MSVOA_D
ClientSampleId :
TP-21

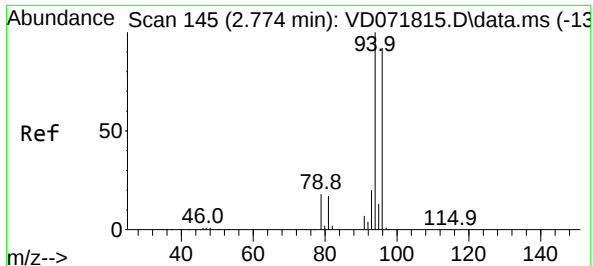
Tgt Ion:168 Resp: 23569
Ion Ratio Lower Upper
168 100
99 62.0 49.8 74.6



#3
Chloromethane
Concen: 2.630 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.006 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion: 50 Resp: 880
Ion Ratio Lower Upper
50 100
52 46.7 27.4 41.0#

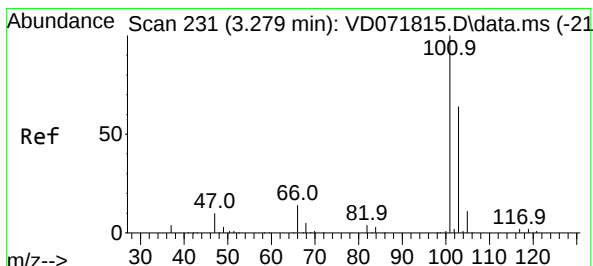
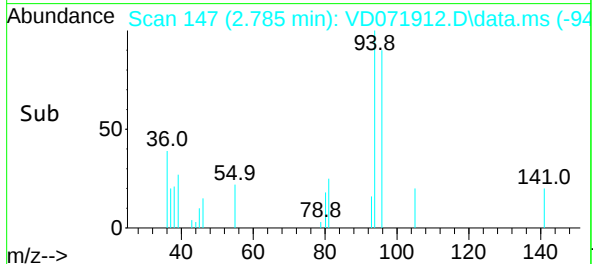
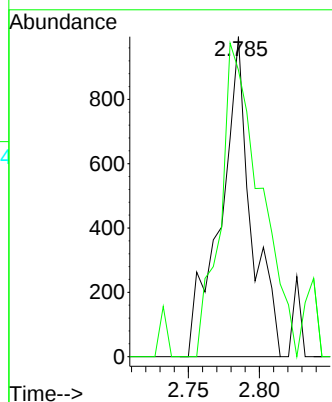
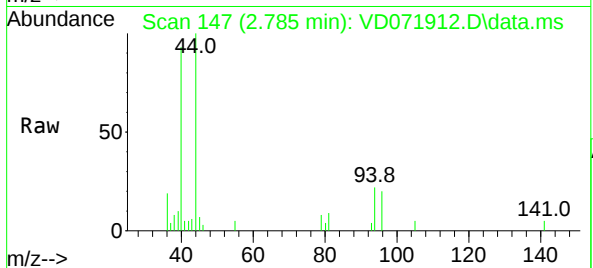




#5
Bromomethane
Concen: 6.442 ug/l
RT: 2.785 min Scan# 145
Delta R.T. 0.012 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

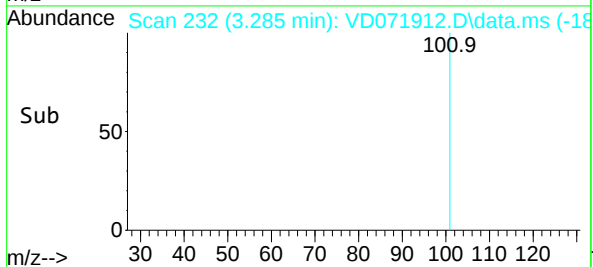
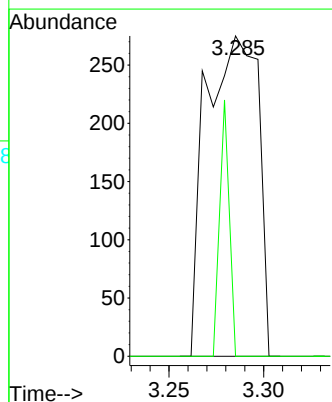
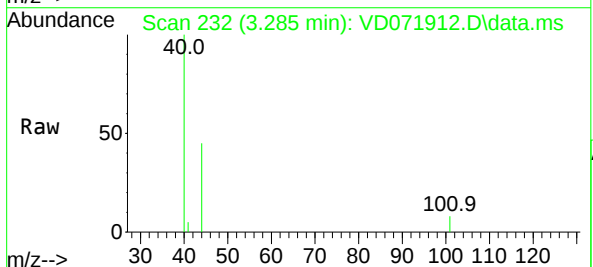
Instrument :
MSVOA_D
ClientSampleId :
TP-21

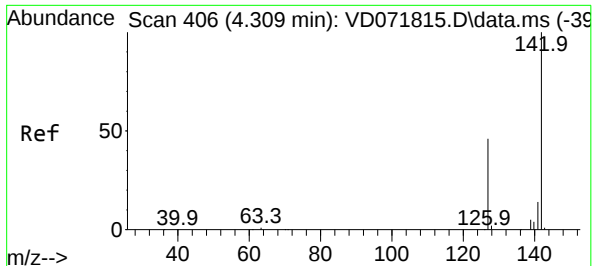
Tgt Ion: 94 Resp: 1489
Ion Ratio Lower Upper
94 100
96 89.5 77.6 116.4



#7
Trichlorofluoromethane
Concen: 1.046 ug/l
RT: 3.285 min Scan# 232
Delta R.T. 0.006 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion: 101 Resp: 525
Ion Ratio Lower Upper
101 100
103 0.0 50.1 75.1#

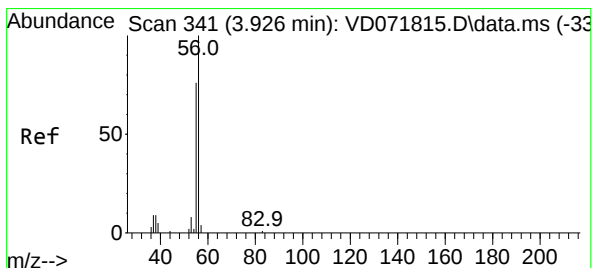
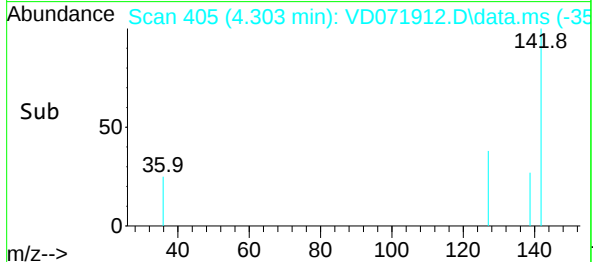
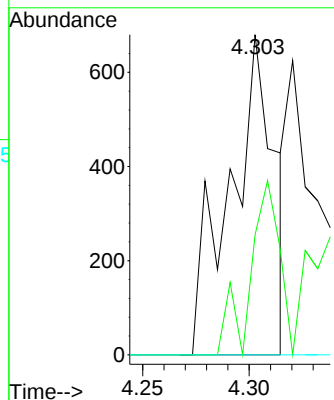
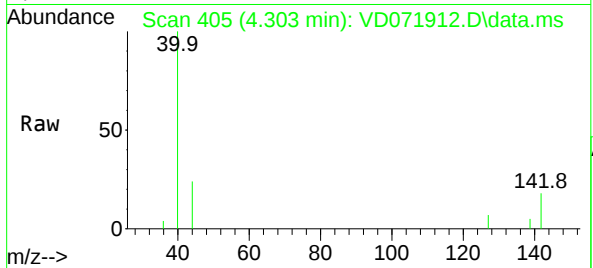




#10
Methyl Iodide
Concen: 3.413 ug/l
RT: 4.303 min Scan# 406
Delta R.T. -0.006 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

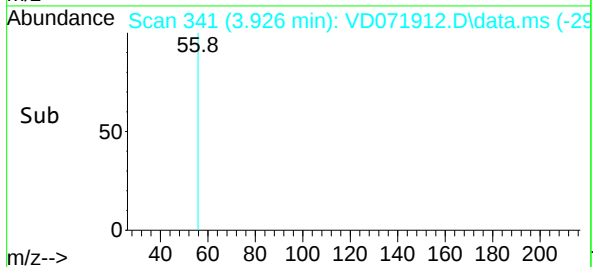
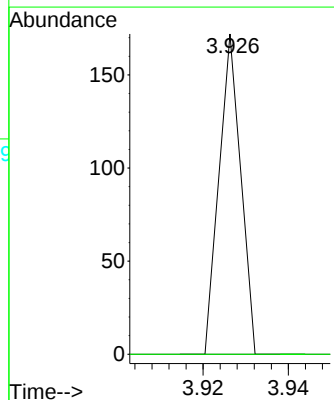
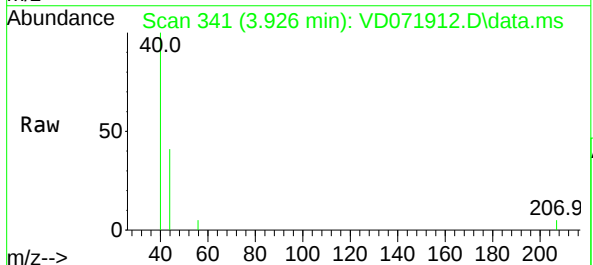
Instrument :
MSVOA_D
ClientSampleId :
TP-21

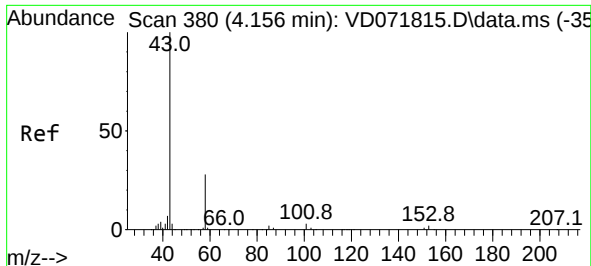
Tgt Ion:142 Resp: 991
Ion Ratio Lower Upper
142 100
127 35.7 37.3 55.9#
141 0.0 11.7 17.5#



#13
Acrolein
Concen: 2.305 ug/l
RT: 3.926 min Scan# 341
Delta R.T. -0.000 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion: 56 Resp: 61
Ion Ratio Lower Upper
56 100
55 0.0 57.1 85.7#

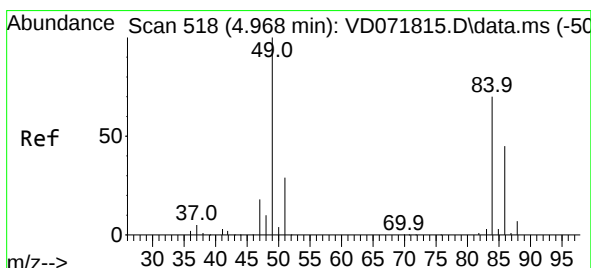
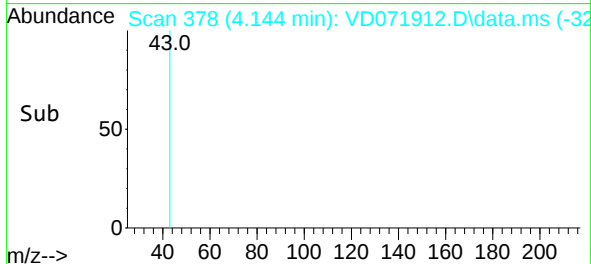
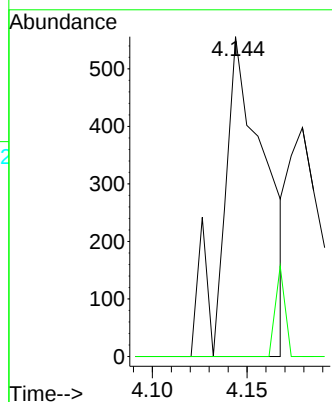
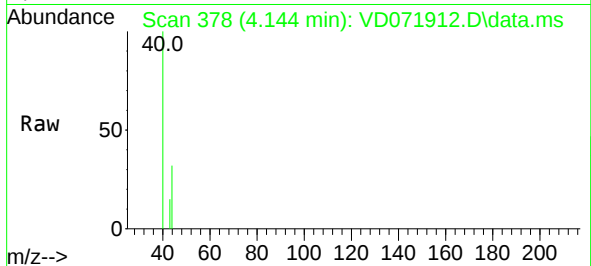




#16
Acetone
Concen: 10.571 ug/l
RT: 4.144 min Scan# 31
Delta R.T. -0.012 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

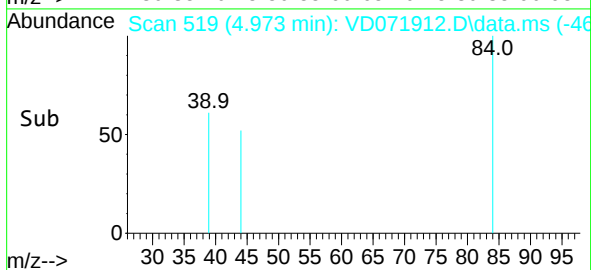
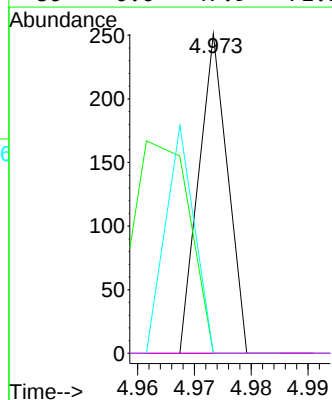
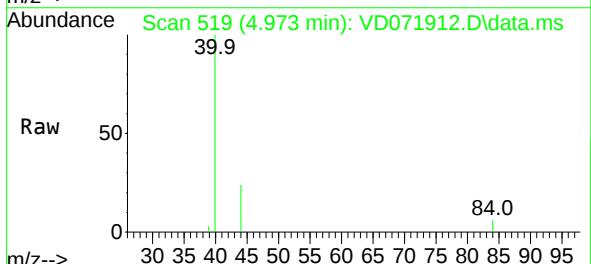
Instrument :
MSVOA_D
ClientSampleId :
TP-21

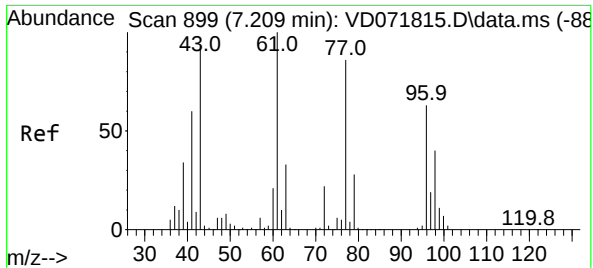
Tgt Ion: 43 Resp: 862
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.973 min Scan# 519
Delta R.T. 0.006 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion: 84 Resp: 89
Ion Ratio Lower Upper
84 100
49 0.0 112.8 169.2#
51 0.0 32.6 48.8#
86 0.0 47.9 71.9#





#25

2-Butanone

Concen: 2.093 ug/l

RT: 7.191 min Scan# 899

Delta R.T. -0.024 min

Lab File: VD071912.D

Acq: 08 Feb 2022 12:29

Instrument :

MSVOA_D

ClientSampleId :

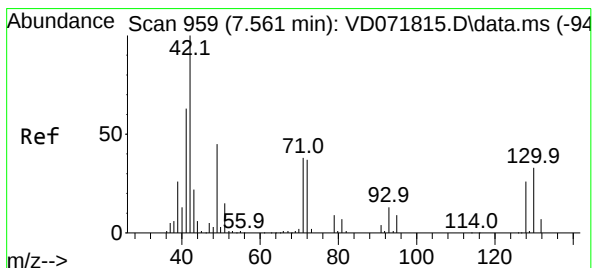
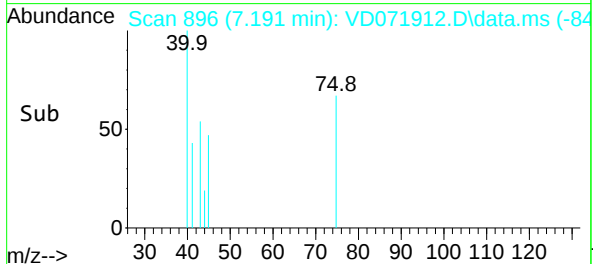
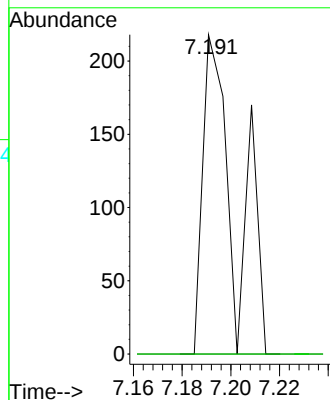
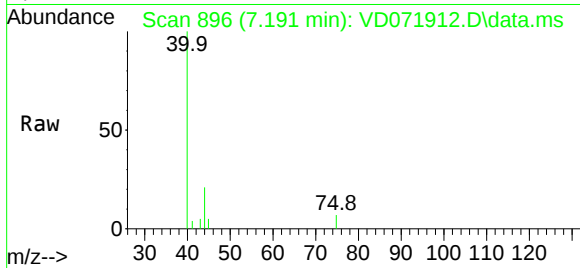
TP-21

Tgt Ion: 43 Resp: 199

Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#



#29

Tetrahydrofuran

Concen: 2.791 ug/l

RT: 7.567 min Scan# 960

Delta R.T. 0.006 min

Lab File: VD071912.D

Acq: 08 Feb 2022 12:29

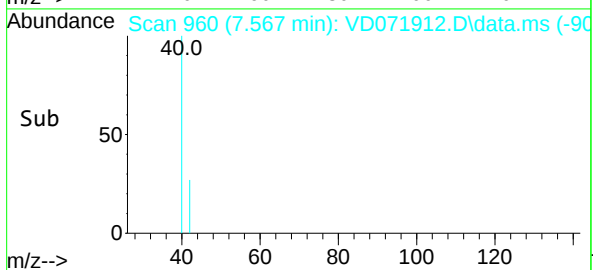
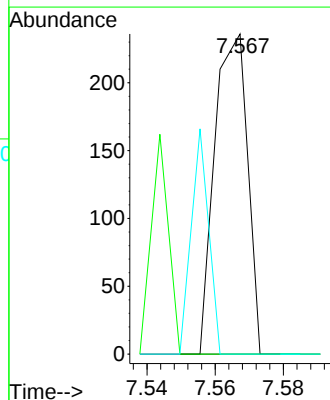
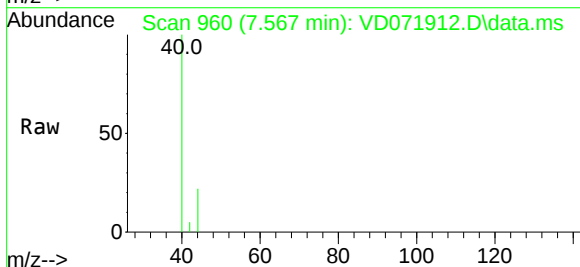
Tgt Ion: 42 Resp: 157

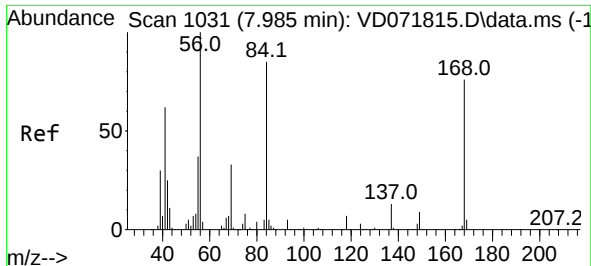
Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

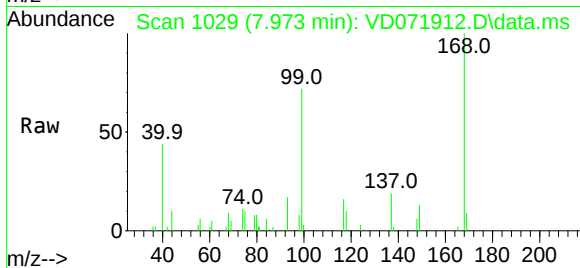
71 37.6 28.6 43.0



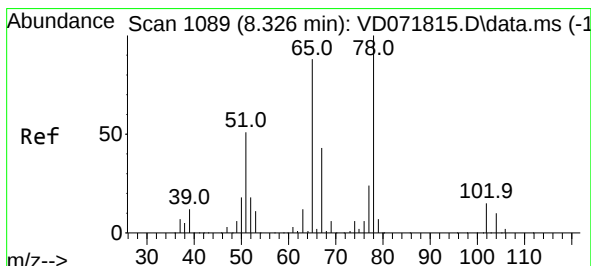
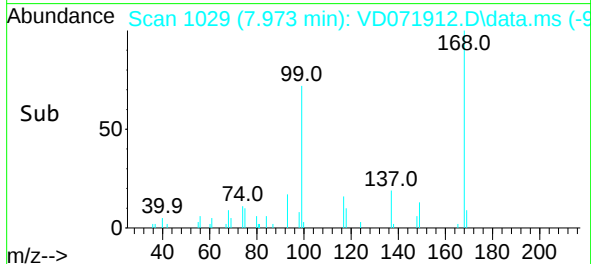
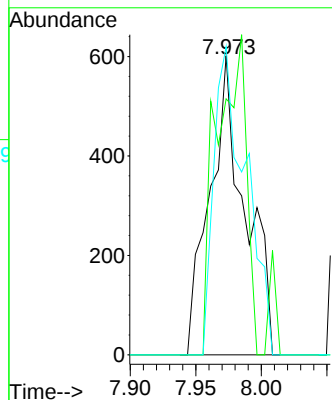


#31
Cyclohexane
Concen: 1.975 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Instrument :
MSVOA_D
ClientSampleId :
TP-21

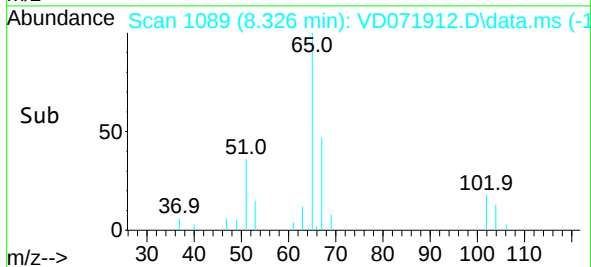
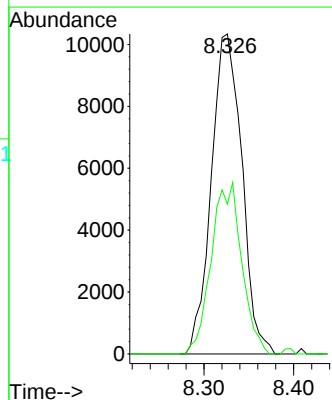
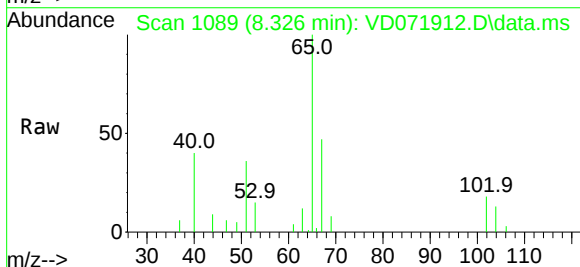


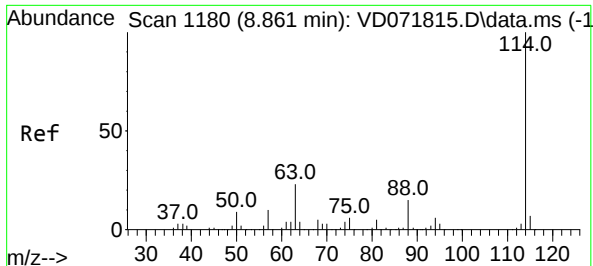
Tgt Ion: 56 Resp: 1123
Ion Ratio Lower Upper
56 100
69 85.5 25.4 38.2#
84 103.0 63.0 94.4#



#33
1,2-Dichloroethane-d4
Concen: 82.041 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion: 65 Resp: 24440
Ion Ratio Lower Upper
65 100
67 53.3 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VD071912.D

Acq: 08 Feb 2022 12:29

Instrument :

MSVOA_D

ClientSampleId :

TP-21

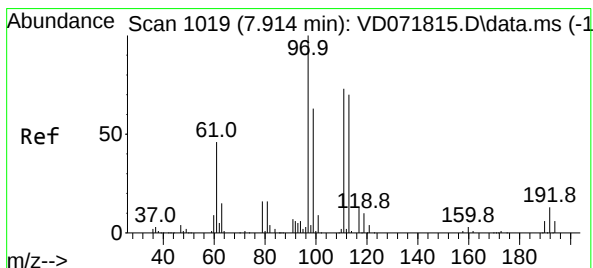
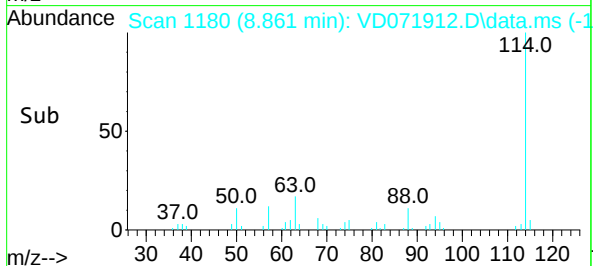
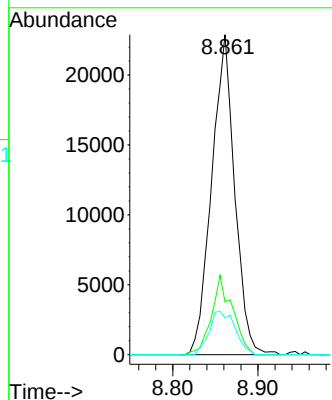
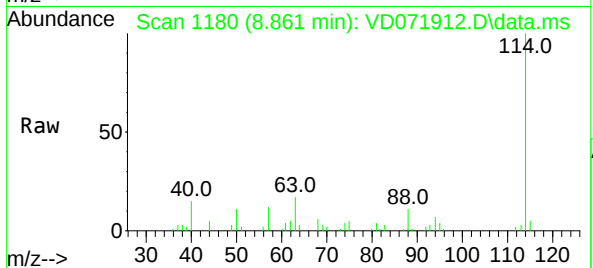
Tgt Ion:114 Resp: 43017

Ion Ratio Lower Upper

114 100

63 16.5 0.0 46.6

88 11.5 0.0 33.2



#35

Dibromofluoromethane

Concen: 55.053 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD071912.D

Acq: 08 Feb 2022 12:29

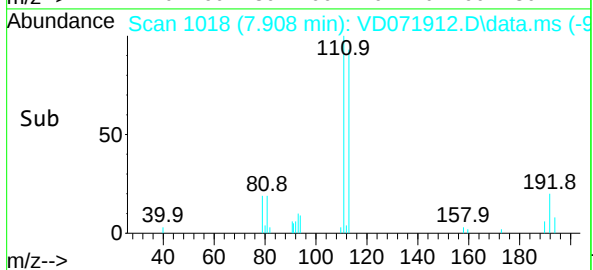
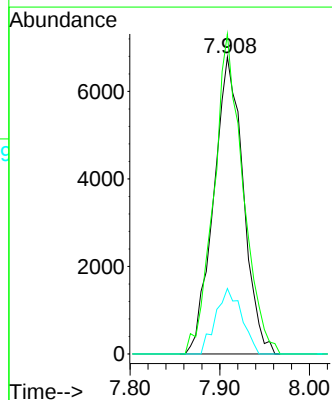
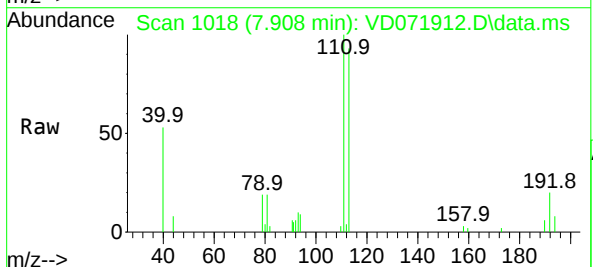
Tgt Ion:113 Resp: 15567

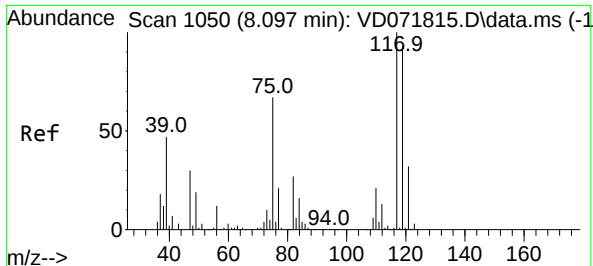
Ion Ratio Lower Upper

113 100

111 105.8 83.8 125.6

192 19.2 14.6 21.8

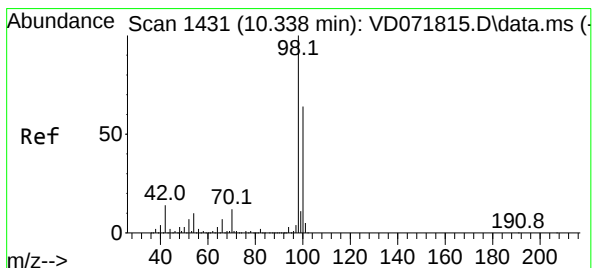
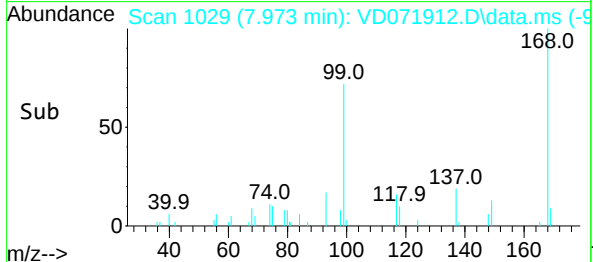
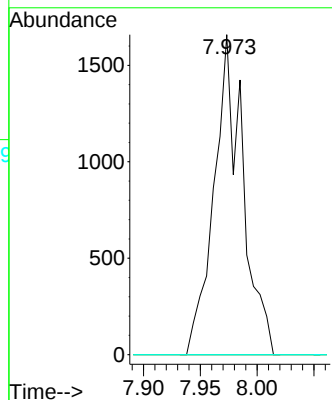
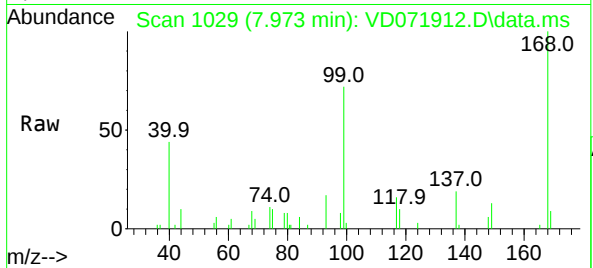




#38
Carbon Tetrachloride
Concen: 6.080 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

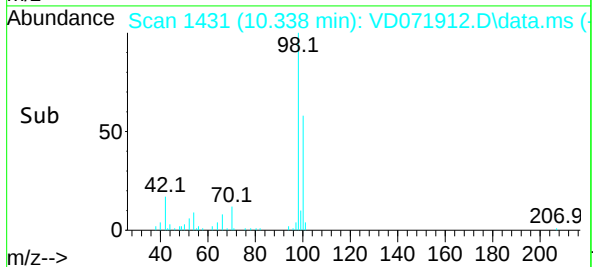
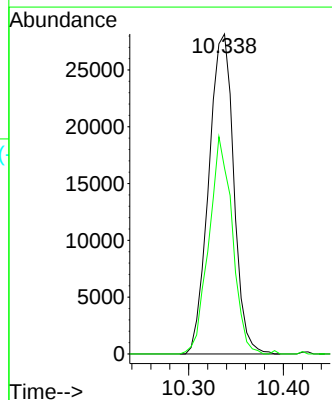
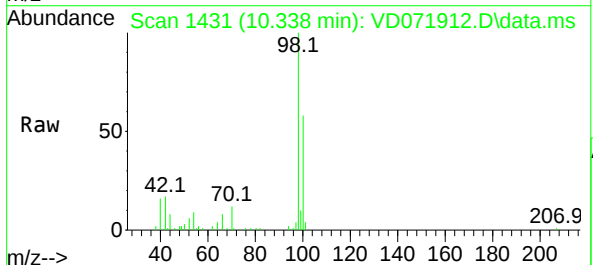
Instrument :
MSVOA_D
ClientSampleId :
TP-21

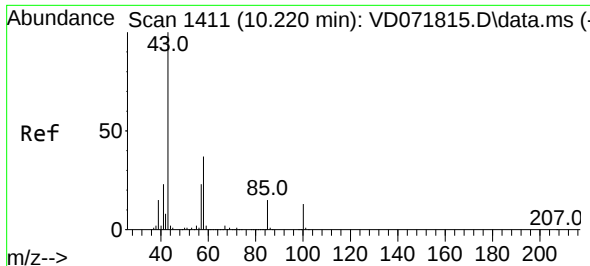
Tgt Ion:117 Resp: 2918
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 24.5 36.7#



#50
Toluene-d8
Concen: 48.789 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion: 98 Resp: 51522
Ion Ratio Lower Upper
98 100
100 63.6 52.4 78.6

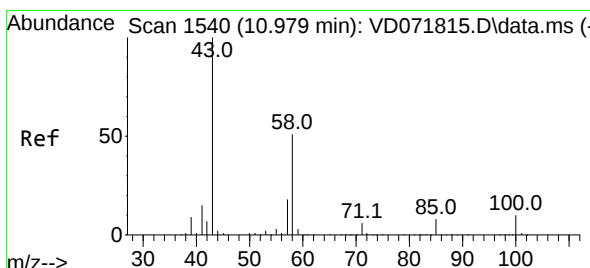
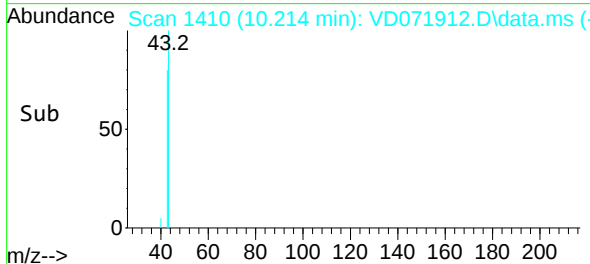
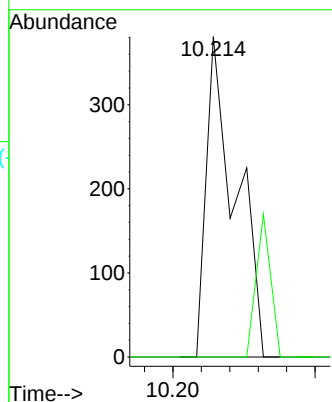
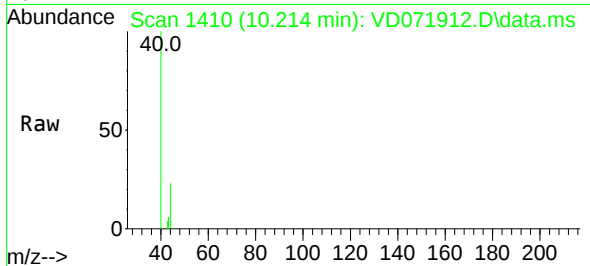




#51
4-Methyl-2-Pentanone
Concen: 1.282 ug/l
RT: 10.214 min Scan# 1411
Delta R.T. -0.012 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

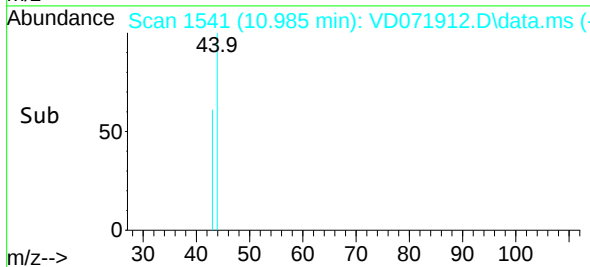
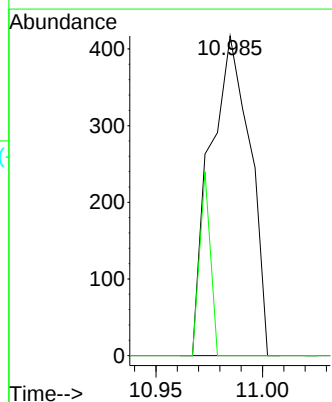
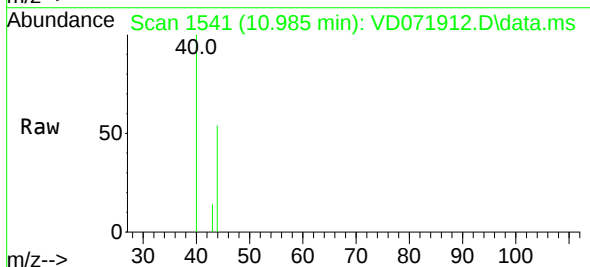
Instrument :
MSVOA_D
ClientSampleId :
TP-21

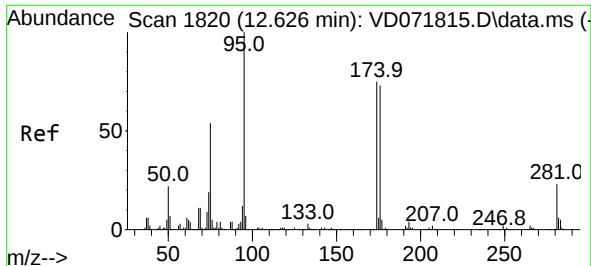
Tgt Ion: 43 Resp: 272
Ion Ratio Lower Upper
43 100
58 22.1 28.6 43.0#



#59
2-Hexanone
Concen: 3.525 ug/l
RT: 10.985 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion: 43 Resp: 543
Ion Ratio Lower Upper
43 100
58 15.7 25.3 75.9#

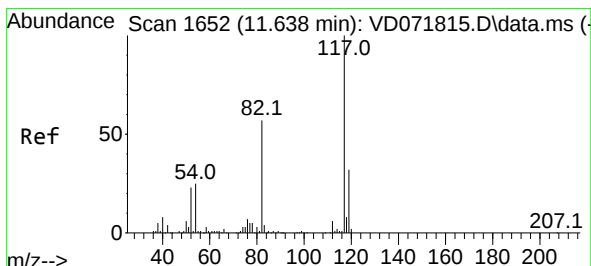
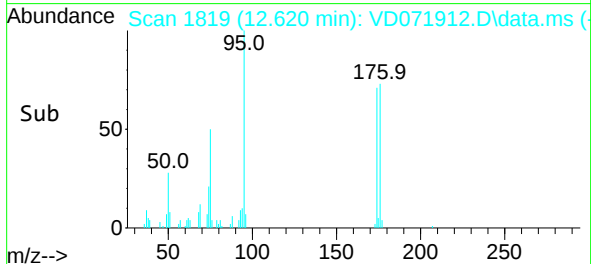
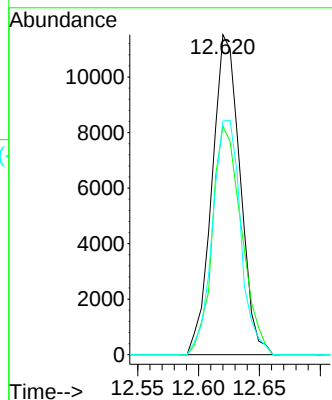
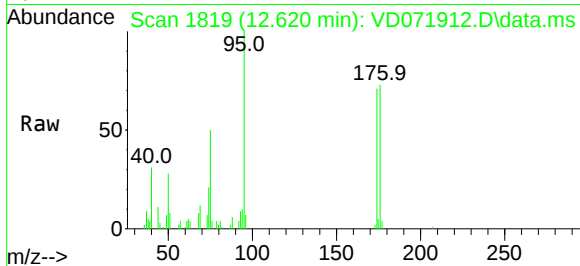




#62
4-Bromofluorobenzene
Concen: 50.076 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

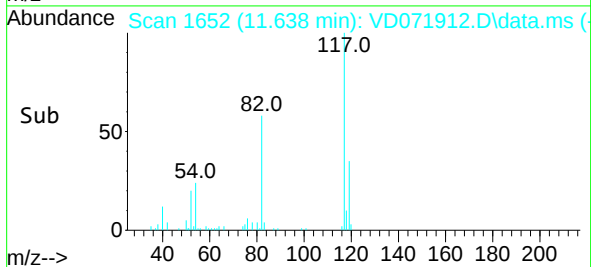
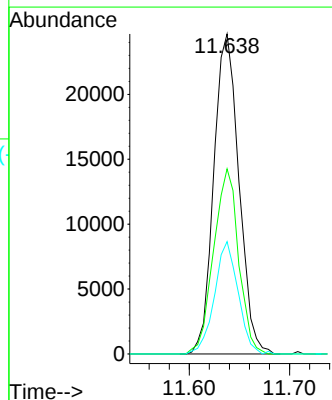
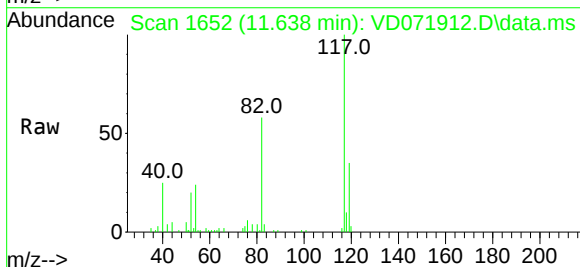
Instrument :
MSVOA_D
ClientSampleId :
TP-21

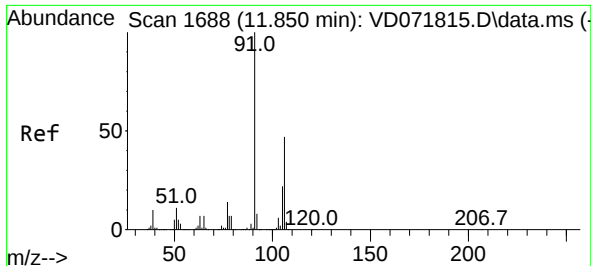
Tgt Ion: 95 Resp: 18467
Ion Ratio Lower Upper
95 100
174 74.2 0.0 152.8
176 73.6 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion: 117 Resp: 42849
Ion Ratio Lower Upper
117 100
82 57.9 45.3 67.9
119 35.1 26.6 40.0

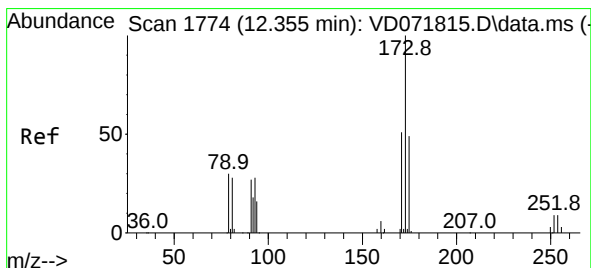
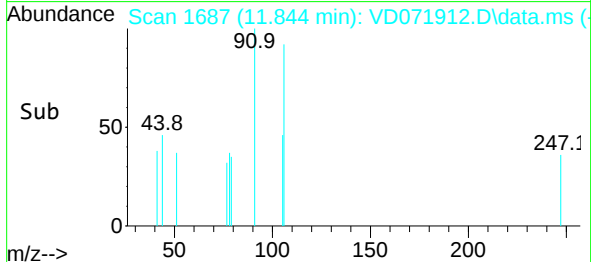
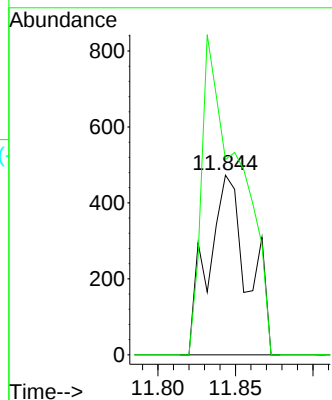
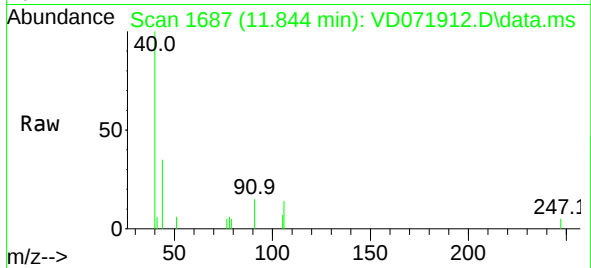




#68
m/p-Xylenes
Concen: 1.310 ug/l
RT: 11.844 min Scan# 1181
Delta R.T. -0.006 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

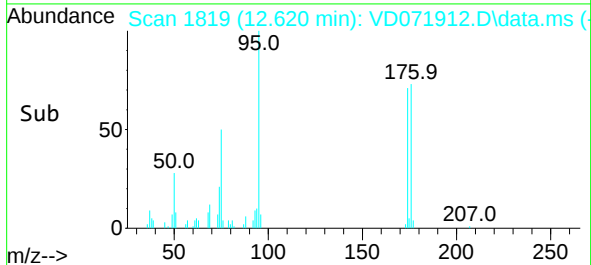
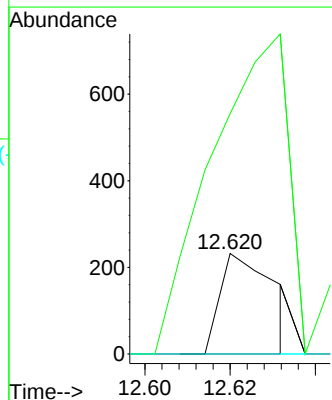
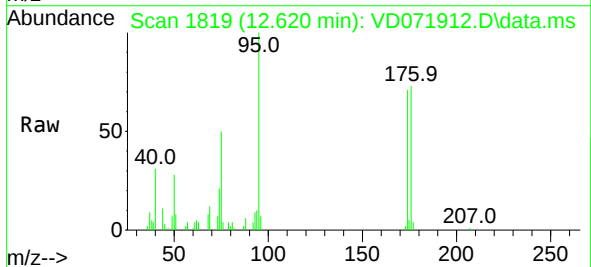
Instrument :
MSVOA_D
ClientSampleId :
TP-21

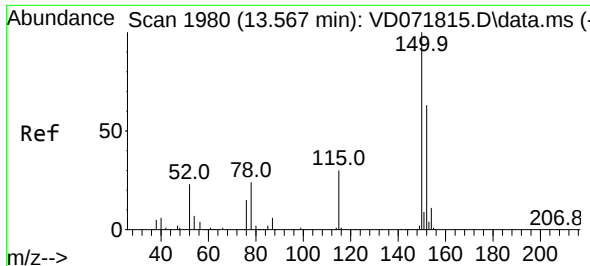
Tgt Ion:106 Resp: 831
Ion Ratio Lower Upper
106 100
91 170.2 163.7 245.5



#71
Bromoform
Concen: 1.176 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.265 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion:173 Resp: 207
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.8#
254 0.0 0.0 0.0

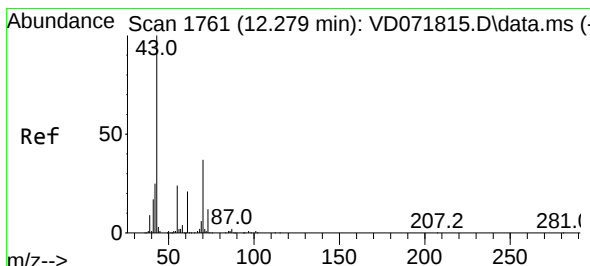
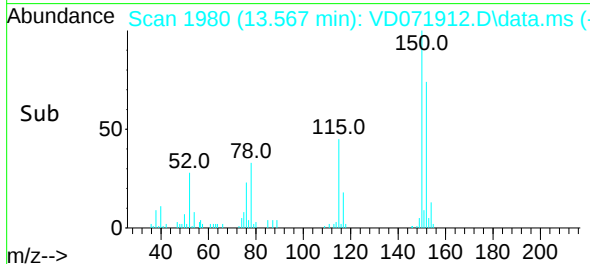
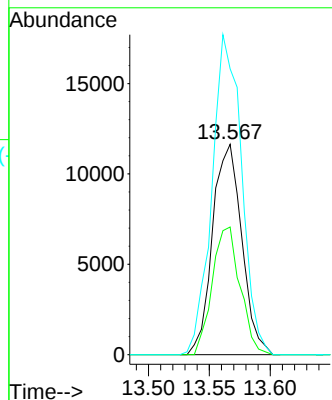
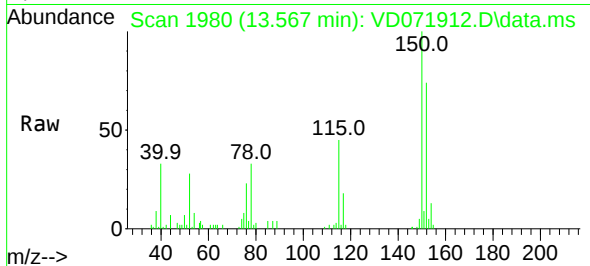




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

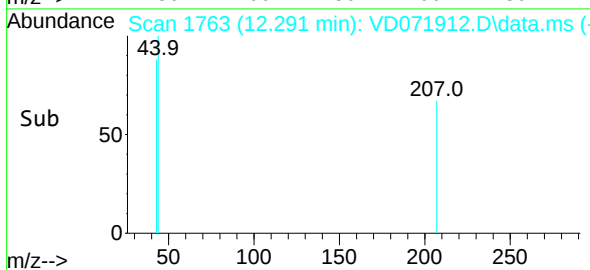
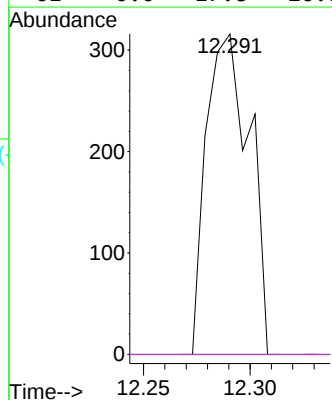
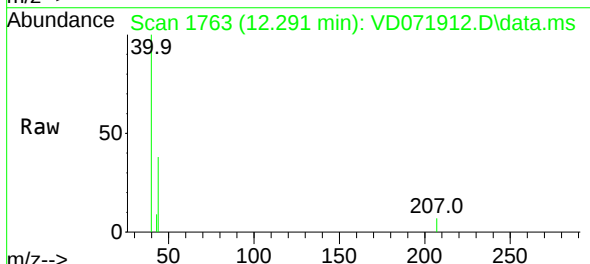
Instrument :
MSVOA_D
ClientSampleId :
TP-21

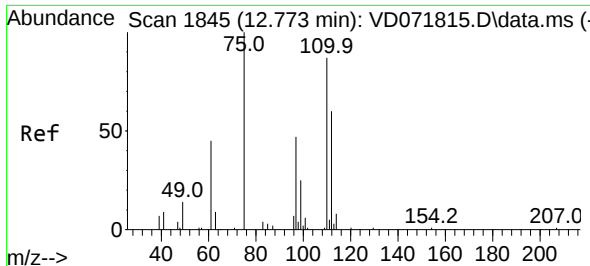
Tgt Ion:152 Resp: 19462
Ion Ratio Lower Upper
152 100
115 57.7 31.3 93.8
150 153.8 0.0 348.6



#74
N-ethyl acetate
Concen: 1.206 ug/l
RT: 12.291 min Scan# 1763
Delta R.T. 0.012 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion: 43 Resp: 447
Ion Ratio Lower Upper
43 100
70 0.0 31.3 46.9#
55 0.0 20.0 30.0#
61 0.0 17.8 26.8#

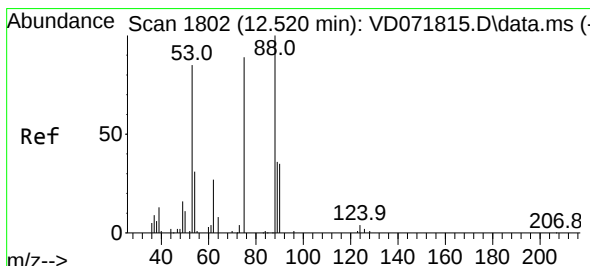
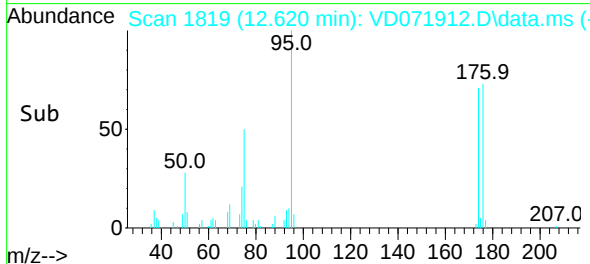
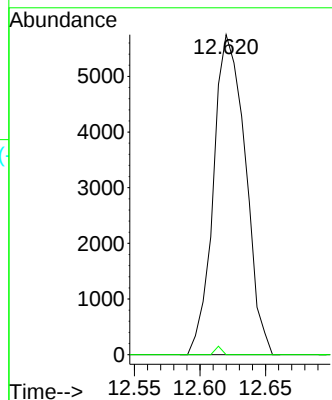
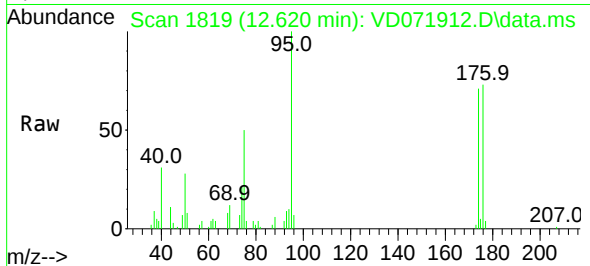




#76
1,2,3-Trichloropropane
Concen: 47.371 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

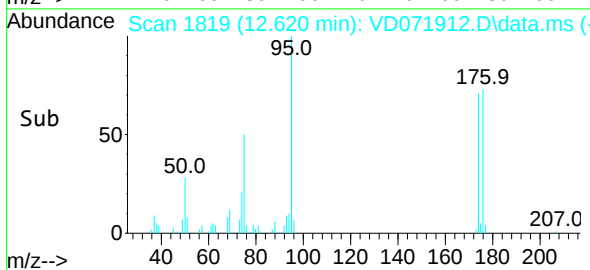
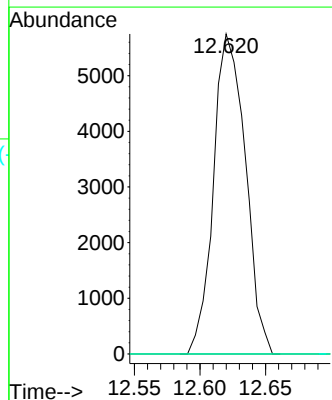
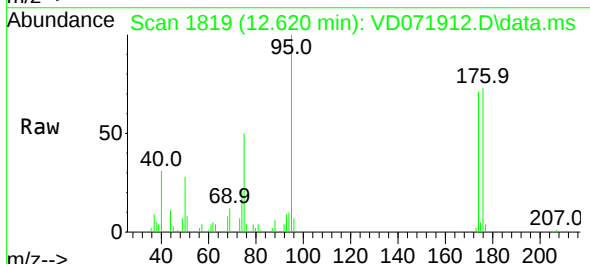
Instrument :
MSVOA_D
ClientSampleId :
TP-21

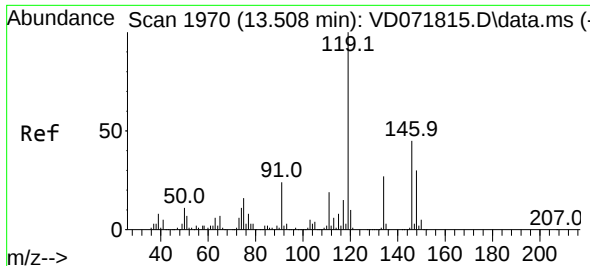
Tgt Ion: 75 Resp: 9716
Ion Ratio Lower Upper
75 100
77 0.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 116.474 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion: 75 Resp: 9716
Ion Ratio Lower Upper
75 100
53 0.0 86.5 129.7#
89 0.0 33.9 50.9#

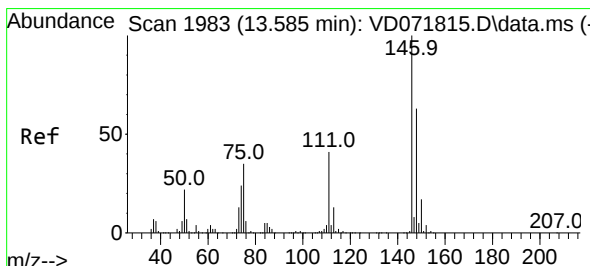
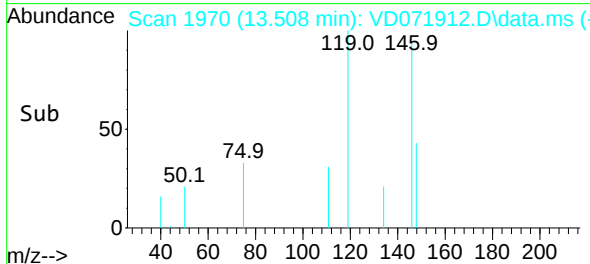
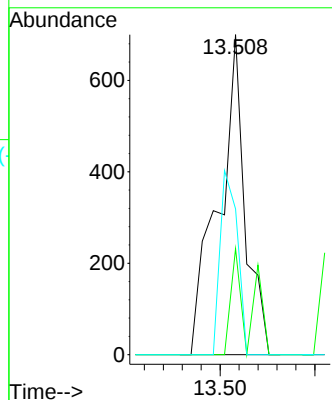
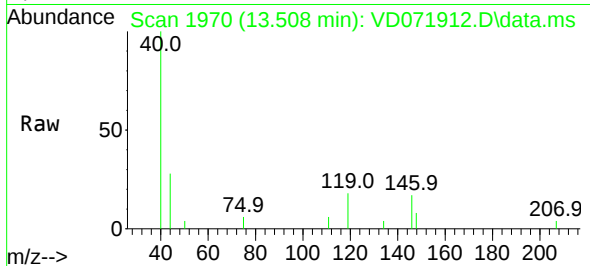




#87
1,3-Dichlorobenzene
Concen: 1.006 ug/l
RT: 13.508 min Scan# 1970
Delta R.T. -0.000 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

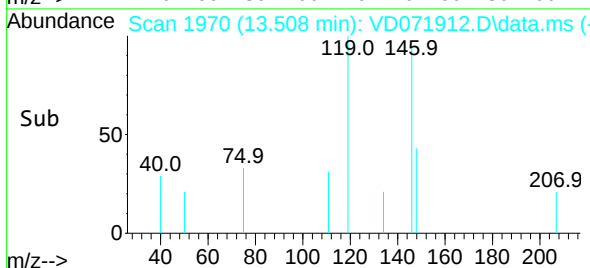
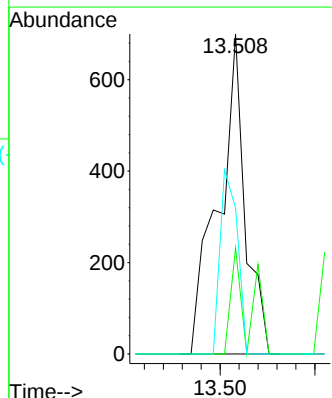
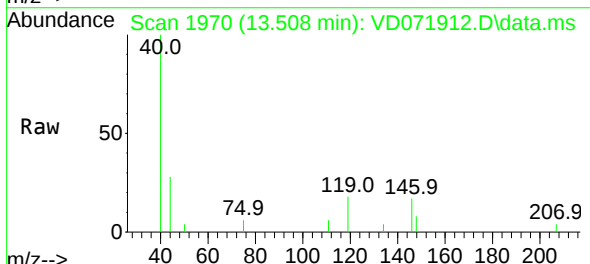
Instrument :
MSVOA_D
ClientSampleId :
TP-21

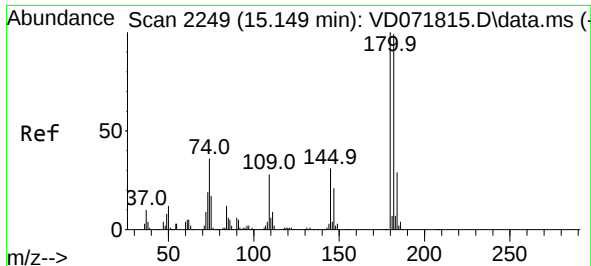
Tgt Ion:146 Resp: 685
Ion Ratio Lower Upper
146 100
111 22.0 20.4 61.3
148 37.2 31.9 95.7



#88
1,4-Dichlorobenzene
Concen: 1.008 ug/l
RT: 13.508 min Scan# 1970
Delta R.T. -0.076 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion:146 Resp: 685
Ion Ratio Lower Upper
146 100
111 22.0 20.3 60.9
148 37.2 31.7 95.1

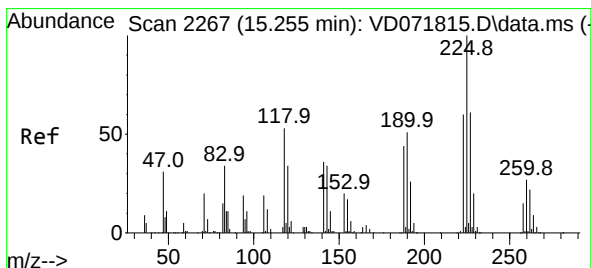
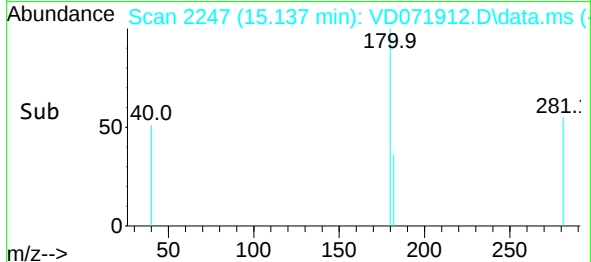
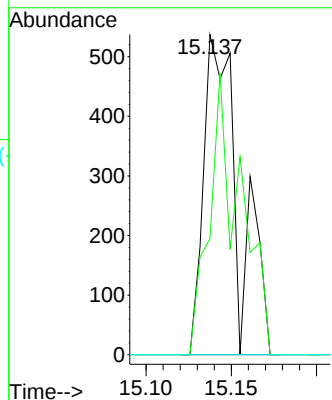
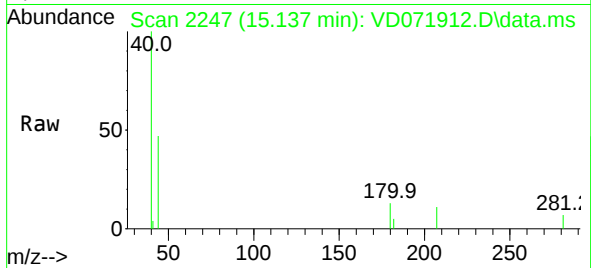




#93
1,2,4-Trichlorobenzene
Concen: 2.254 ug/l
RT: 15.137 min Scan# 21
Delta R.T. -0.006 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

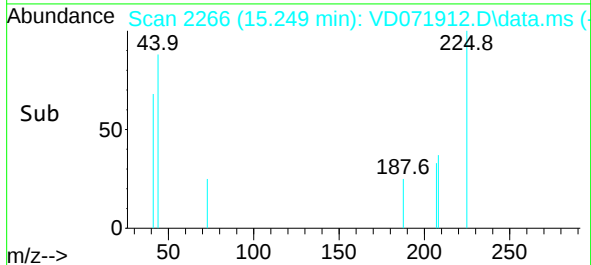
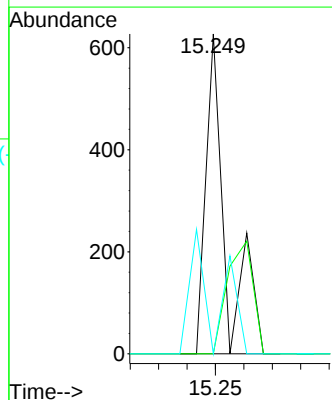
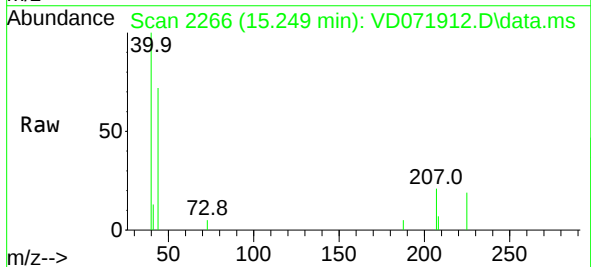
Instrument :
MSVOA_D
ClientSampleId :
TP-21

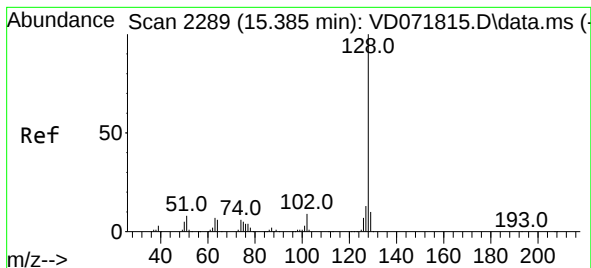
Tgt Ion:180 Resp: 767
Ion Ratio Lower Upper
180 100
182 78.2 47.3 142.0
145 0.0 16.2 48.5#



#94
Hexachlorobutadiene
Concen: 1.644 ug/l
RT: 15.249 min Scan# 2266
Delta R.T. -0.000 min
Lab File: VD071912.D
Acq: 08 Feb 2022 12:29

Tgt Ion:225 Resp: 305
Ion Ratio Lower Upper
225 100
223 45.6 31.1 93.2
227 50.5 32.4 97.0





#95

Naphthalene

Concen: 3.834 ug/l

RT: 15.379 min Scan# 21

Delta R.T. -0.006 min

Lab File: VD071912.D

Acq: 08 Feb 2022 12:29

Instrument :

MSVOA_D

ClientSampleId :

TP-21

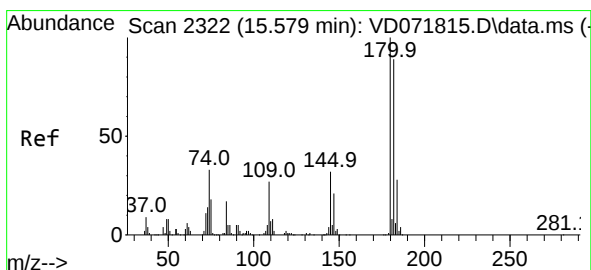
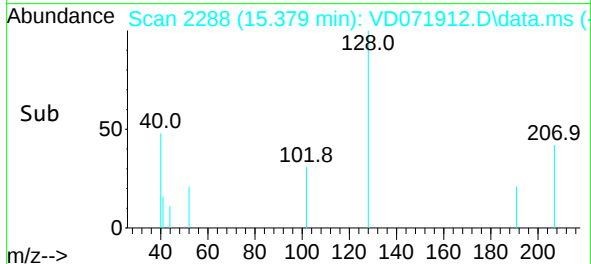
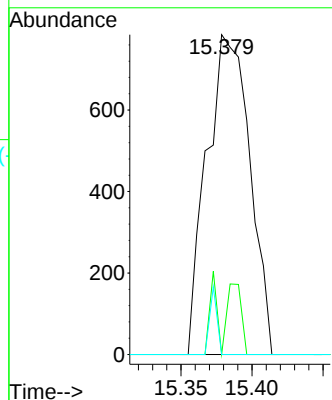
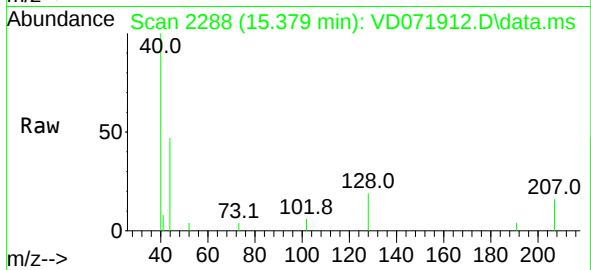
Tgt Ion:128 Resp: 1657

Ion Ratio Lower Upper

128 100

127 7.4 10.3 15.5#

129 0.0 8.4 12.6#



#96

1,2,3-Trichlorobenzene

Concen: 2.252 ug/l

RT: 15.585 min Scan# 2323

Delta R.T. 0.006 min

Lab File: VD071912.D

Acq: 08 Feb 2022 12:29

Tgt Ion:180 Resp: 657

Ion Ratio Lower Upper

180 100

182 78.7 47.6 142.9

145 0.0 17.1 51.3#

