

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121421\
 Data File : VD071315.D
 Acq On : 14 Dec 2021 12:39
 Operator : VA/SY
 Sample : M5022-39RE
 Misc : 5.01G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 15 08:27:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

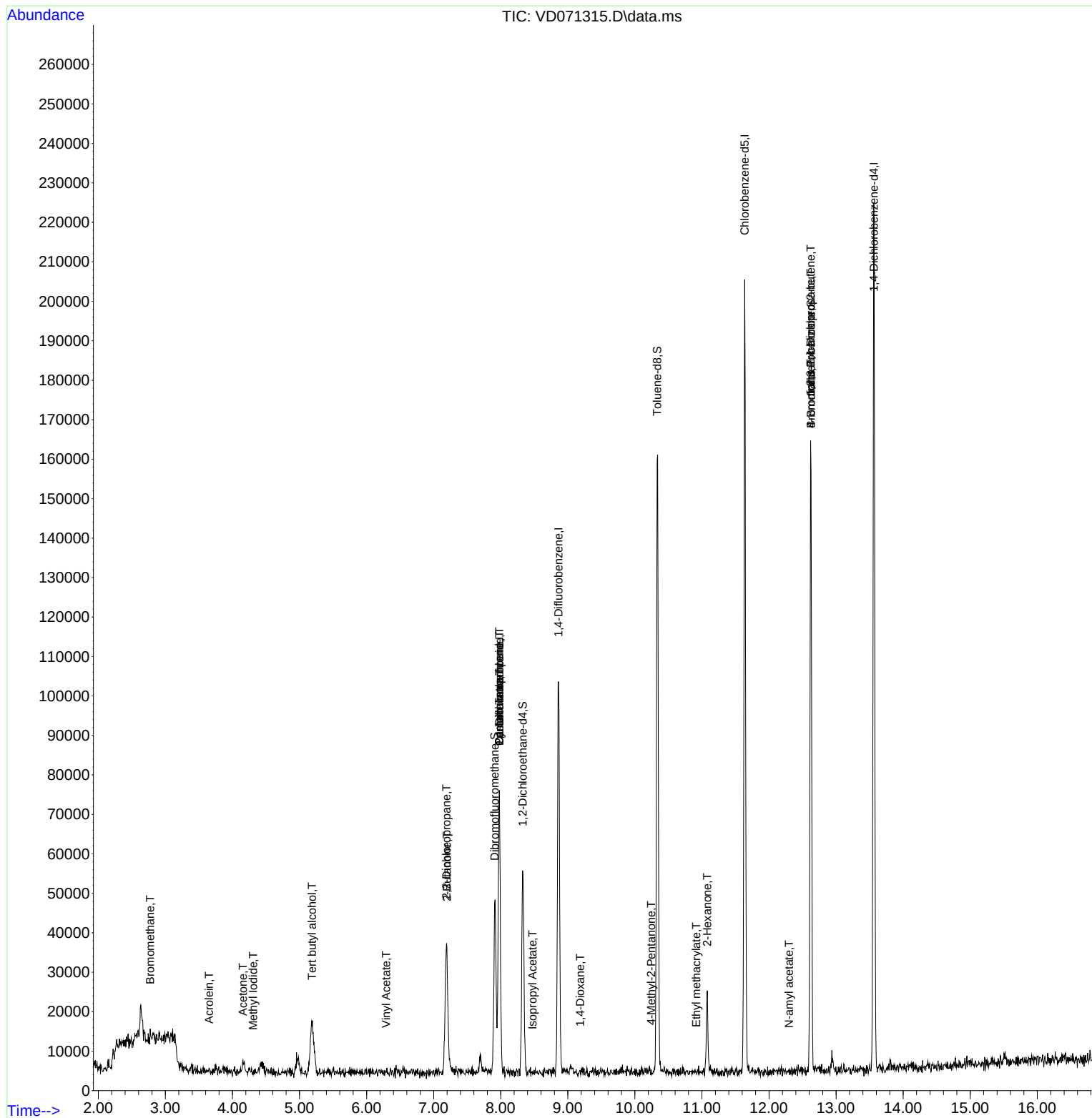
Internal Standards						
1) Pentafluorobenzene	7.979	168	47344	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	83192	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	101351	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	54297	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	41729	75.116	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 150.240%			
35) Dibromofluoromethane	7.908	113	28025	52.902	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.800%			
50) Toluene-d8	10.332	98	103804	51.490	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 102.980%			
62) 4-Bromofluorobenzene	12.626	95	49778	71.231	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 142.460%			
Target Compounds						Qvalue
5) Bromomethane	2.773	94	826	1.923	ug/l #	57
10) Methyl Iodide	4.309	142	119	4.756	ug/l #	40
11) Tert butyl alcohol	5.185	59	12375	365.921	ug/l #	72
13) Acrolein	3.650	56	140	3.688	ug/l #	13
16) Acetone	4.156	43	2060	43.041	ug/l #	86
23) Vinyl Acetate	6.291	43	54	27.272	ug/l #	72
25) 2-Butanone	7.197	43	2210	39.859	ug/l #	45
26) 2,2-Dichloropropane	7.191	77	2545	2.909	ug/l #	52
31) Cyclohexane	7.979	56	1644	1.740	ug/l #	45
36) 1,1-Dichloropropene	7.979	75	5479	7.047	ug/l #	51
38) Carbon Tetrachloride	7.979	117	5440	7.098	ug/l #	18
41) Methacrylonitrile	7.485	41	83	Below Cal	#	34
43) Isopropyl Acetate	8.473	43	87	5.328	ug/l #	47
49) 1,4-Dioxane	9.185	88	65	23.367	ug/l #	1
51) 4-Methyl-2-Pentanone	10.244	43	74	30.823	ug/l #	1
56) Ethyl methacrylate	10.914	69	58	6.064	ug/l #	1
59) 2-Hexanone	11.079	43	194	35.160	ug/l	64
71) Bromoform	12.626	173	618	1.737	ug/l #	1
74) N-amyl acetate	12.296	43	62	5.752	ug/l #	1
76) 1,2,3-Trichloropropane	12.620	75	27977	54.081	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	27977	117.659	ug/l #	18

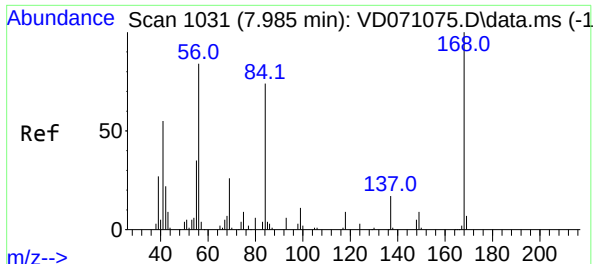
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 15 08:27:54 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
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QLast Update : Mon Nov 29 17:54:09 2021
Response via : Initial Calibration

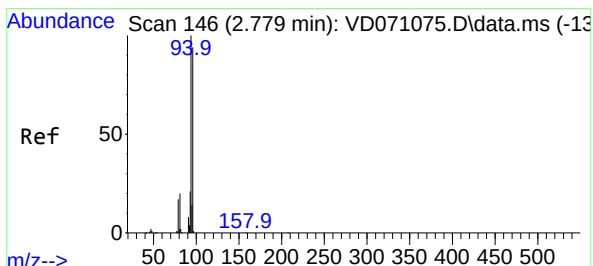
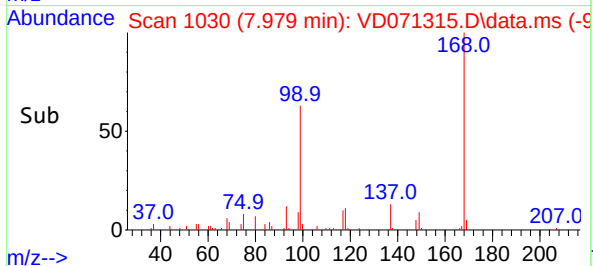
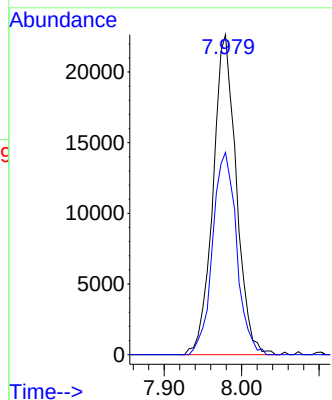
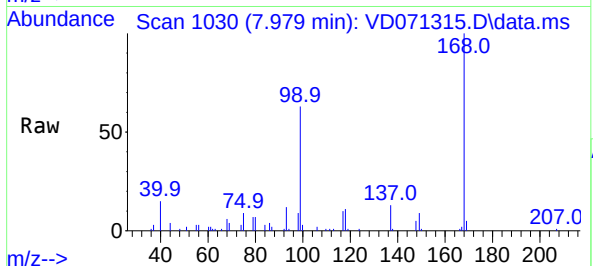




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

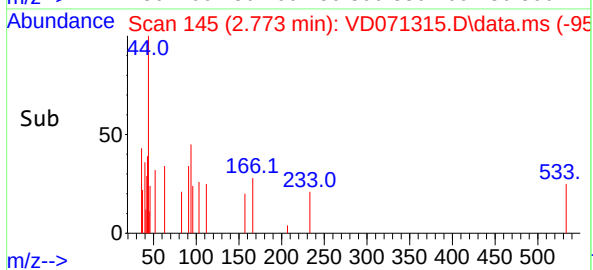
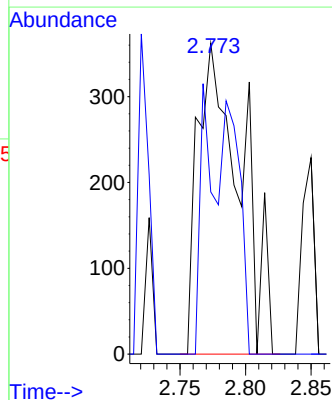
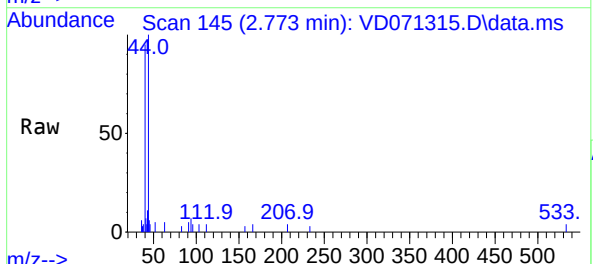
Instrument :
MSVOA_D
ClientSampleId :

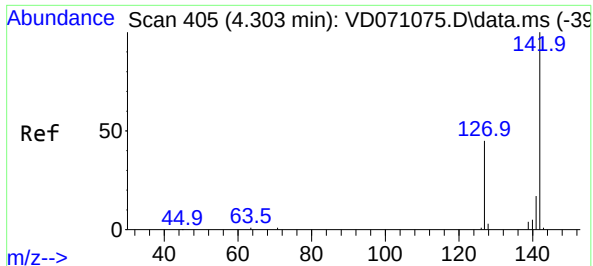
Tgt Ion:168 Resp: 47344
Ion Ratio Lower Upper
168 100
99 63.2 46.6 69.8



#5
Bromomethane
Concen: 1.923 ug/l
RT: 2.773 min Scan# 145
Delta R.T. -0.006 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Tgt Ion: 94 Resp: 826
Ion Ratio Lower Upper
94 100
96 52.2 74.8 112.2#

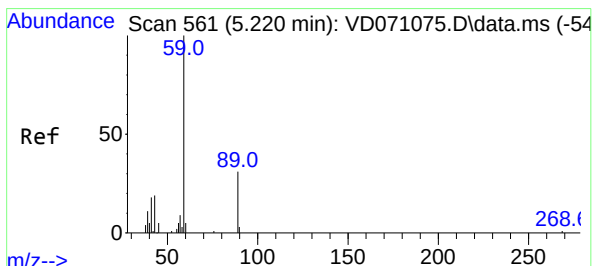
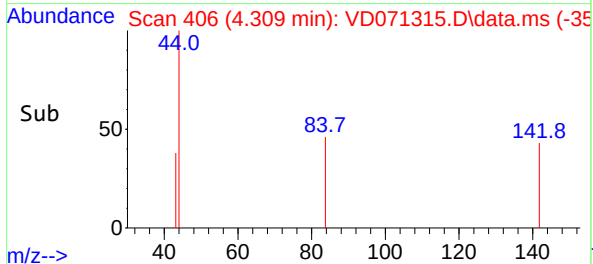
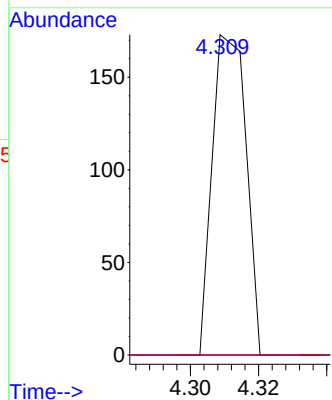
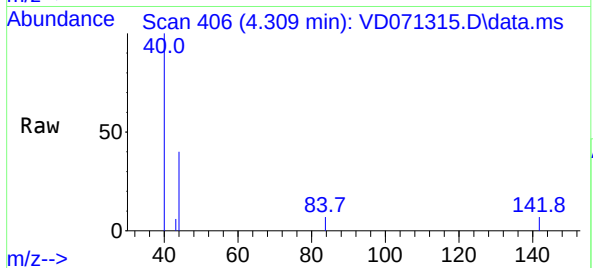




#10
Methyl Iodide
Concen: 4.756 ug/l
RT: 4.309 min Scan# 405
Delta R.T. 0.006 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

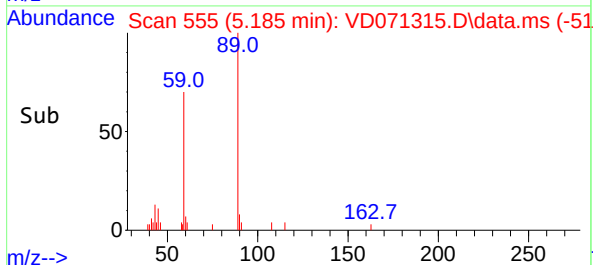
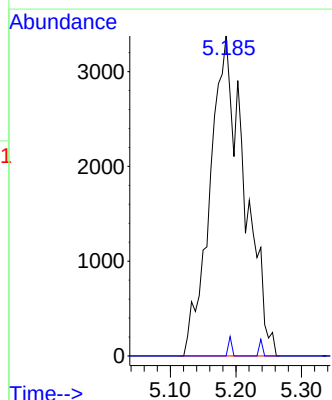
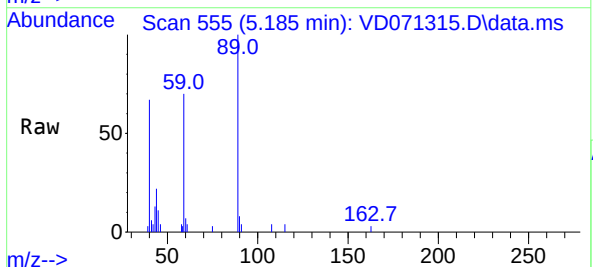
Instrument :
MSVOA_D
ClientSampleId :

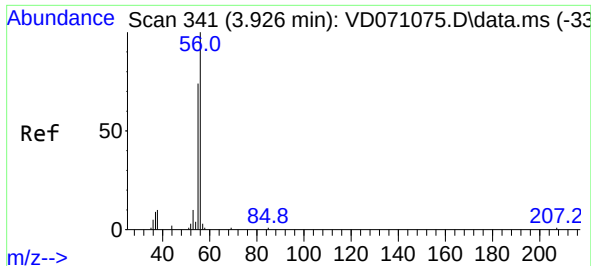
Tgt Ion:142 Resp: 119
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 365.921 ug/l
RT: 5.185 min Scan# 555
Delta R.T. -0.035 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Tgt Ion: 59 Resp: 12375
Ion Ratio Lower Upper
59 100
57 0.6 9.0 13.4#

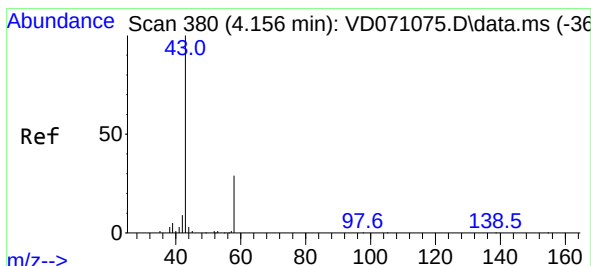
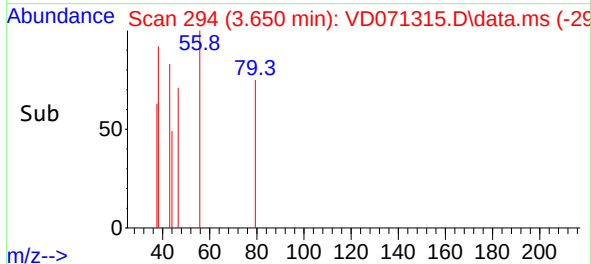
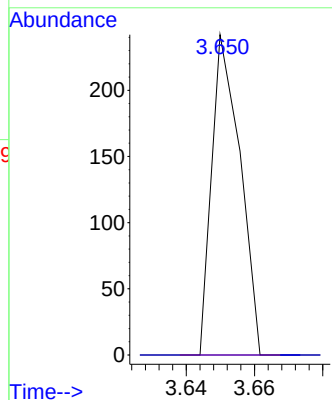
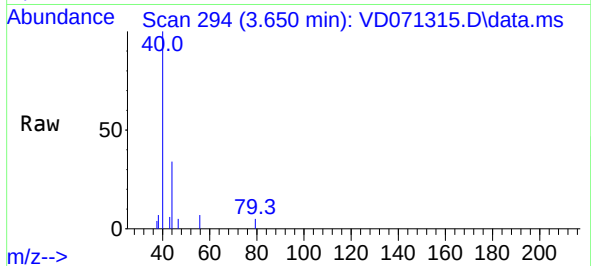




#13
Acrolein
Concen: 3.688 ug/l
RT: 3.650 min Scan# 294
Delta R.T. -0.276 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

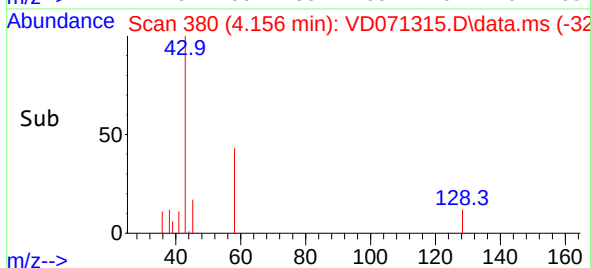
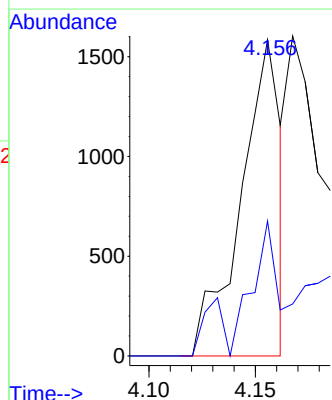
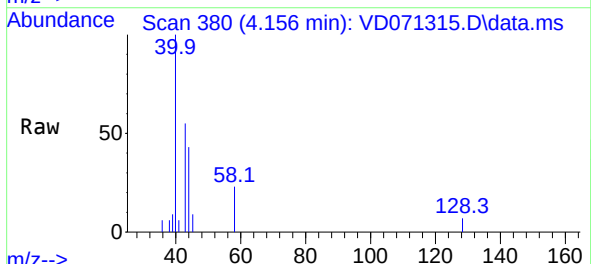
Instrument :
MSVOA_D
ClientSampleId :

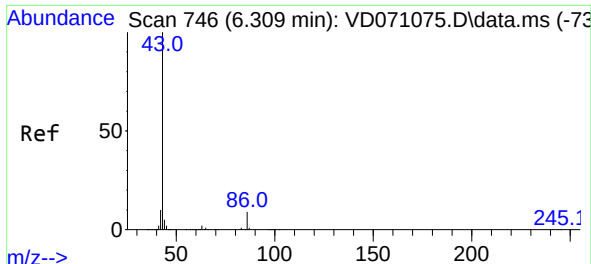
Tgt Ion: 56 Resp: 140
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



#16
Acetone
Concen: 43.041 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Tgt Ion: 43 Resp: 2060
Ion Ratio Lower Upper
43 100
58 42.6 27.8 41.8#

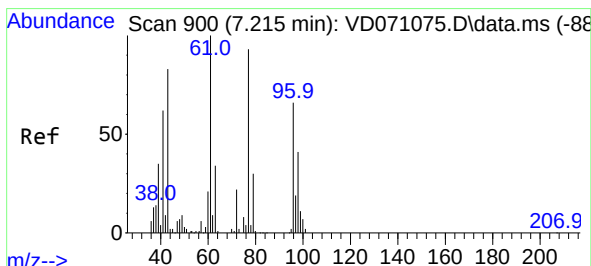
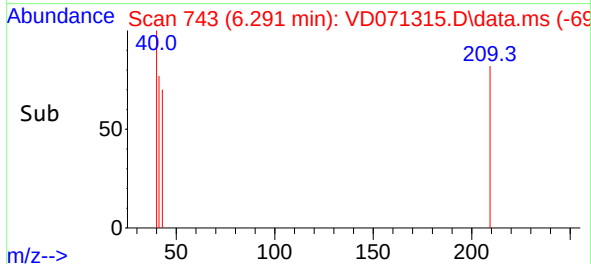
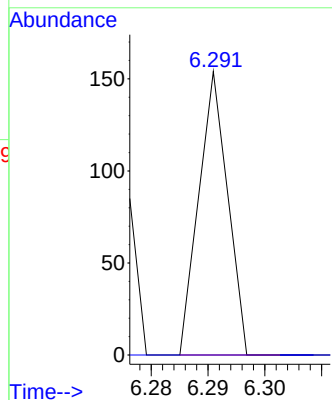
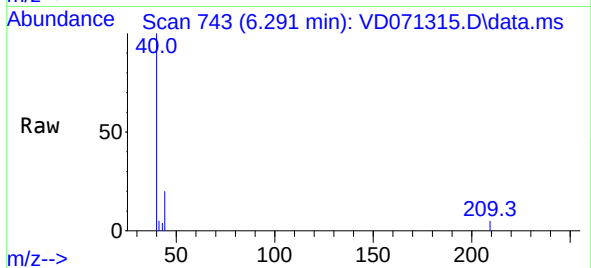




#23
 Vinyl Acetate
 Concen: 27.272 ug/l
 RT: 6.291 min Scan# 746
 Delta R.T. -0.018 min
 Lab File: VD071315.D
 Acq: 14 Dec 2021 12:39

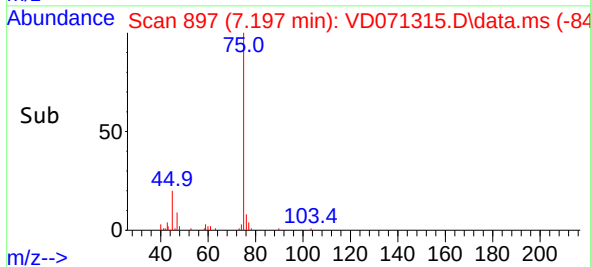
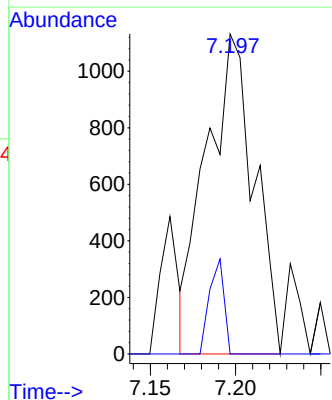
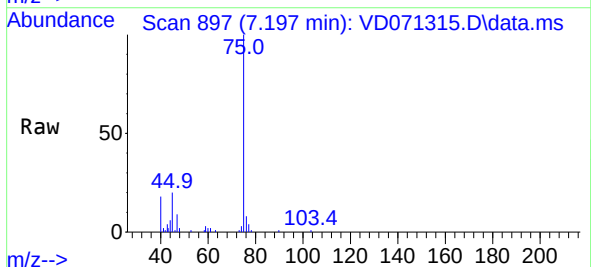
Instrument :
 MSVOA_D
 ClientSampleId :

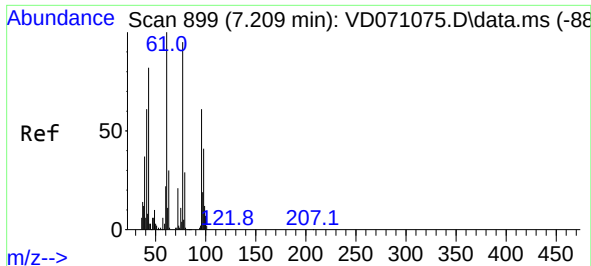
Tgt Ion: 43 Resp: 54
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 39.859 ug/l
 RT: 7.197 min Scan# 897
 Delta R.T. -0.018 min
 Lab File: VD071315.D
 Acq: 14 Dec 2021 12:39

Tgt Ion: 43 Resp: 2210
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#

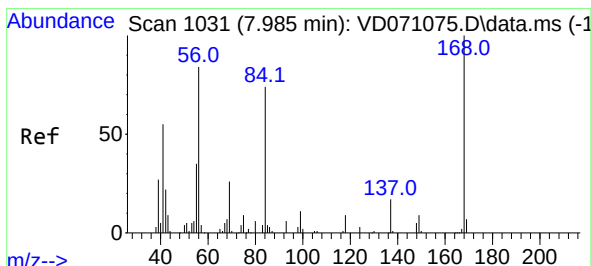
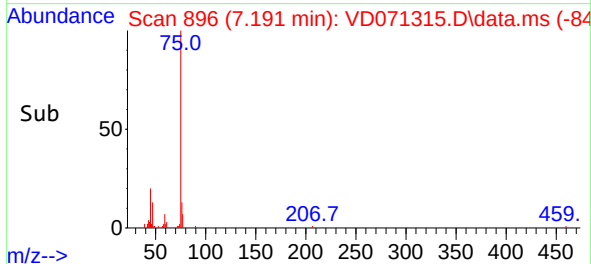
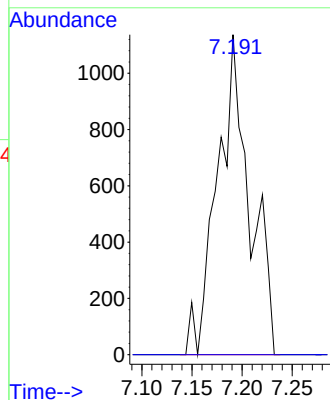
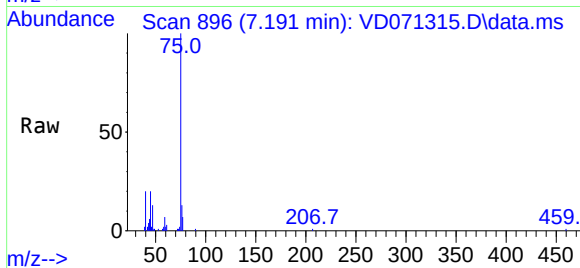




#26
2,2-Dichloropropane
Concen: 2.909 ug/l
RT: 7.191 min Scan# 899
Delta R.T. -0.018 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

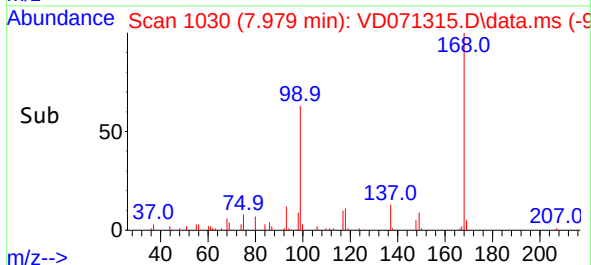
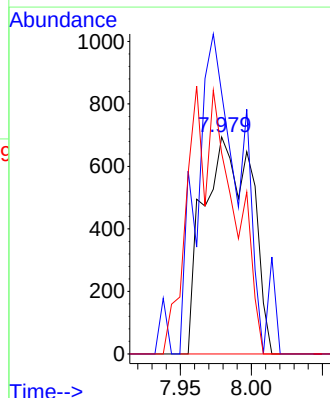
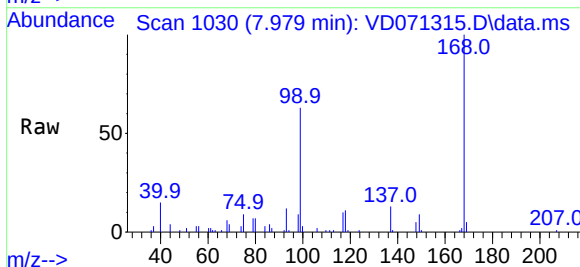
Instrument :
MSVOA_D
ClientSampleId :

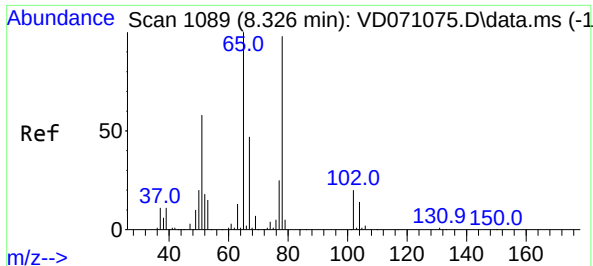
Tgt Ion: 77 Resp: 2545
Ion Ratio Lower Upper
77 100
97 0.0 11.9 35.5#



#31
Cyclohexane
Concen: 1.740 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Tgt Ion: 56 Resp: 1644
Ion Ratio Lower Upper
56 100
69 120.3 25.9 38.9#
84 92.7 64.3 96.5





#33

1,2-Dichloroethane-d4

Concen: 75.116 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071315.D

Acq: 14 Dec 2021 12:39

Instrument :

MSVOA_D

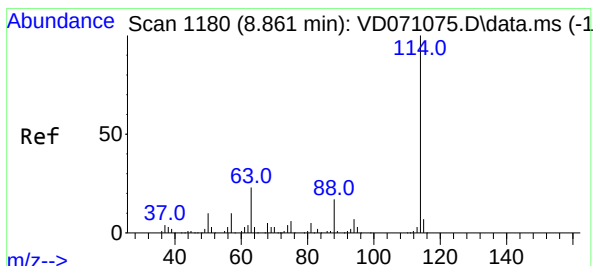
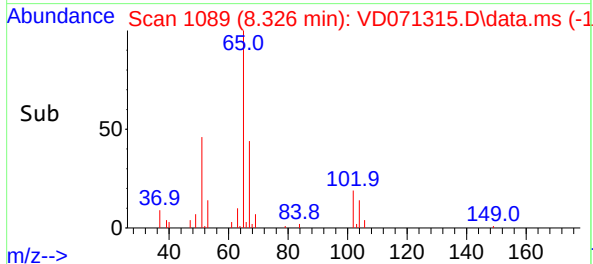
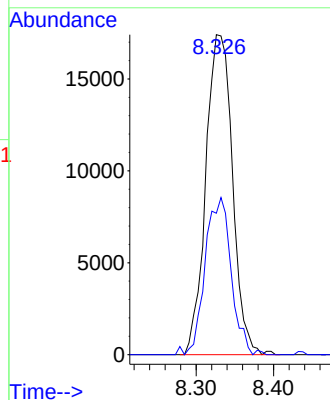
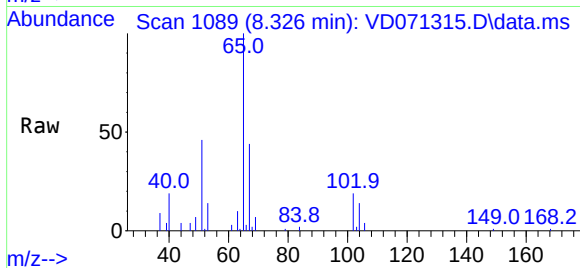
ClientSampleId :

Tgt Ion: 65 Resp: 41729

Ion Ratio Lower Upper

65 100

67 47.8 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071315.D

Acq: 14 Dec 2021 12:39

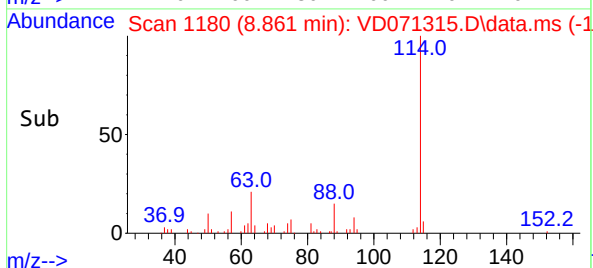
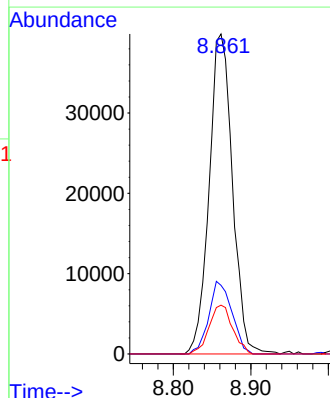
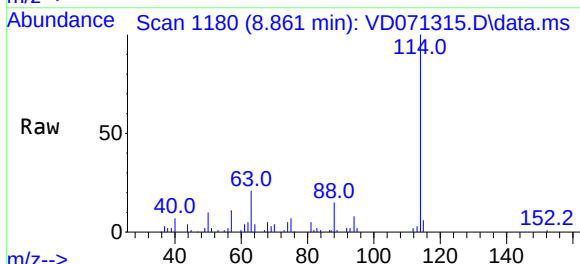
Tgt Ion: 114 Resp: 83192

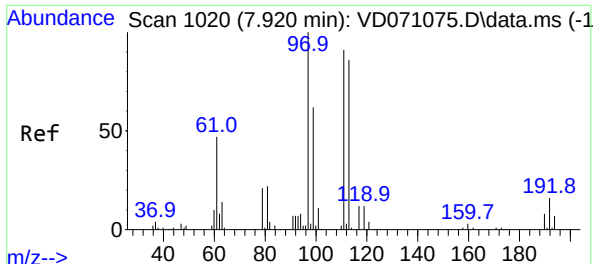
Ion Ratio Lower Upper

114 100

63 21.5 0.0 41.8

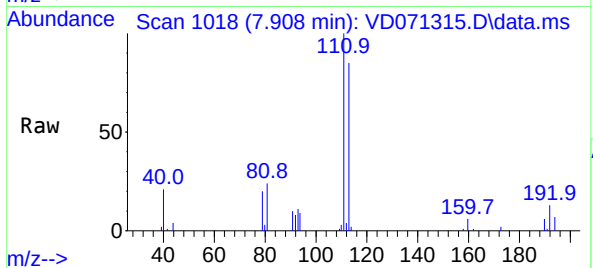
88 15.2 0.0 32.8



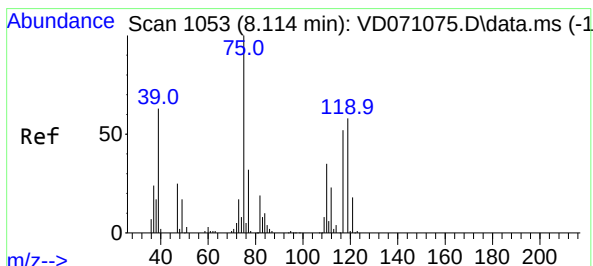
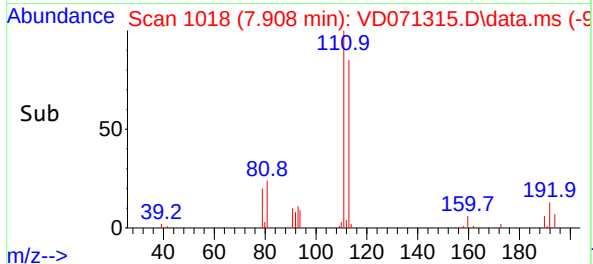
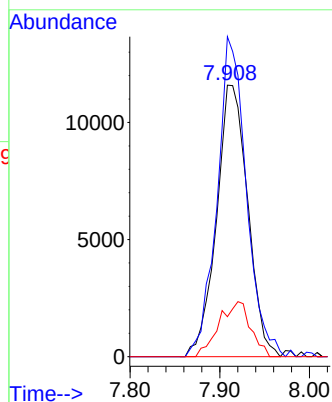


#35
Dibromofluoromethane
Concen: 52.902 ug/l
RT: 7.908 min Scan# 1018
Delta R.T. -0.012 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Instrument :
MSVOA_D
ClientSampleId :

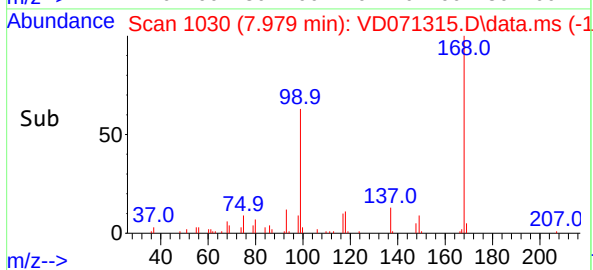
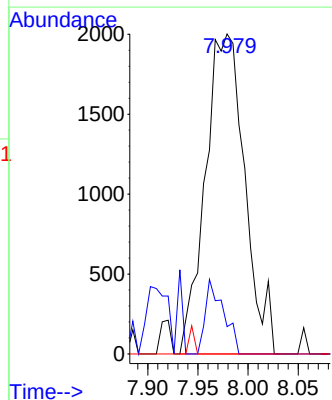
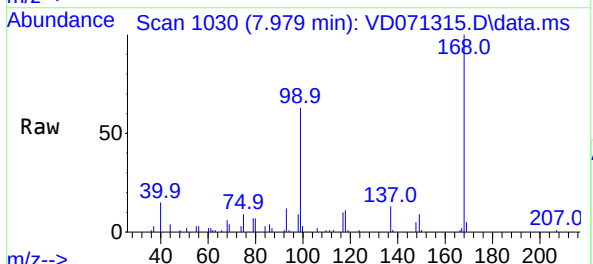


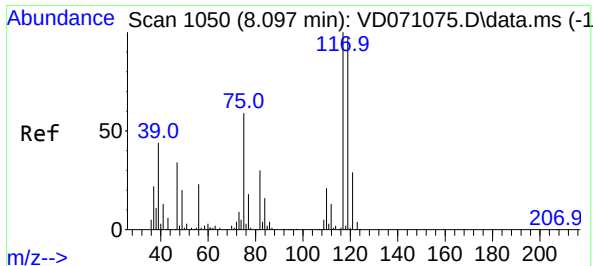
Tgt Ion:	113	Resp:	28025
Ion	Ratio	Lower	Upper
113	100		
111	110.3	82.0	123.0
192	20.5	15.2	22.8



#36
1,1-Dichloropropene
Concen: 7.047 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.135 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

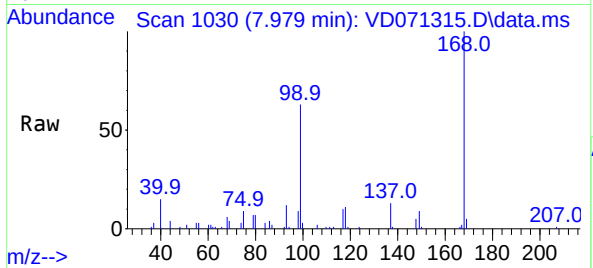
Tgt Ion:	75	Resp:	5479
Ion	Ratio	Lower	Upper
75	100		
110	10.8	17.8	53.4#
77	0.0	24.8	37.2#



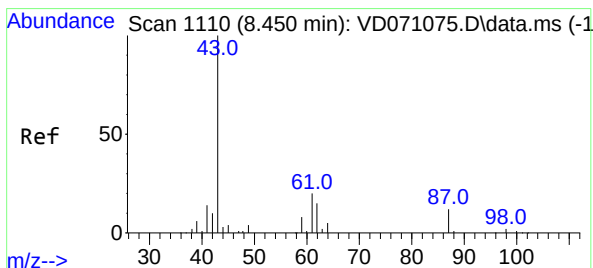
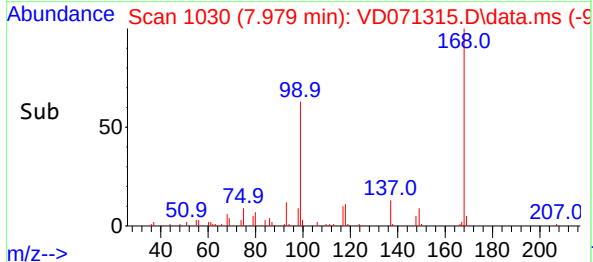
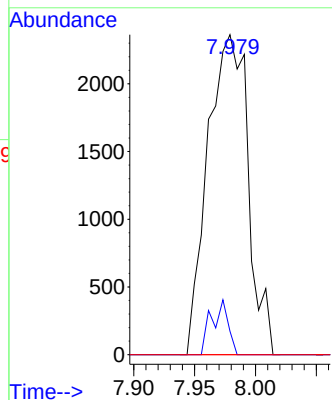


#38
Carbon Tetrachloride
Concen: 7.098 ug/l
RT: 7.979 min Scan# 1107
Delta R.T. -0.118 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Instrument :
MSVOA_D
ClientSampleId :

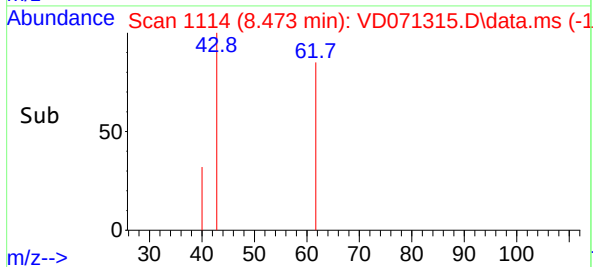
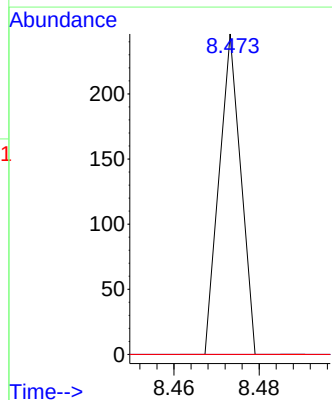
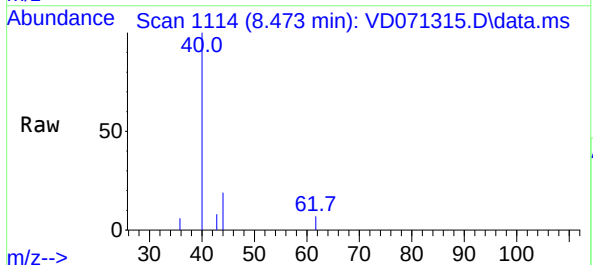


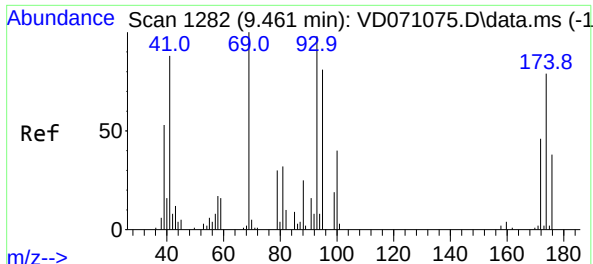
Tgt Ion:117 Resp: 5440
Ion Ratio Lower Upper
117 100
119 7.4 75.8 113.6#
121 0.0 23.6 35.4#



#43
Isopropyl Acetate
Concen: 5.328 ug/l
RT: 8.473 min Scan# 1114
Delta R.T. 0.023 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

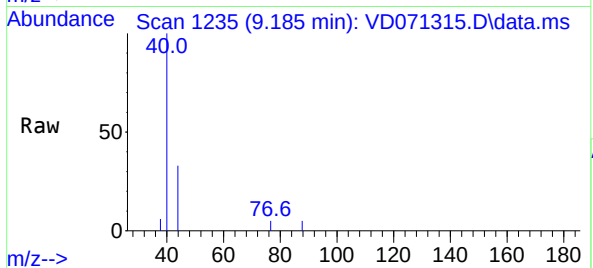
Tgt Ion: 43 Resp: 87
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



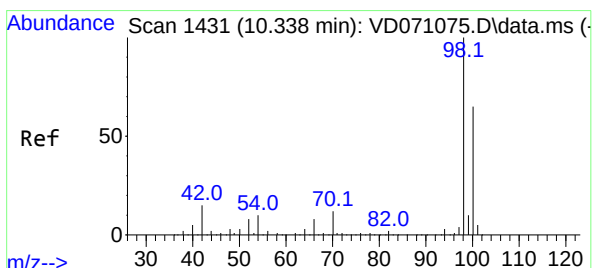
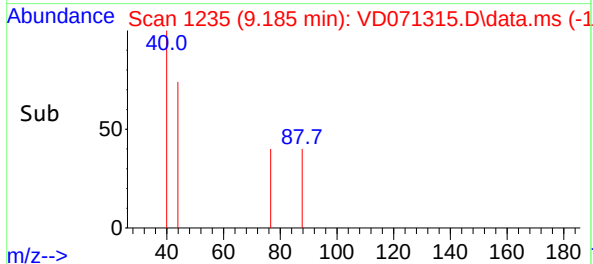
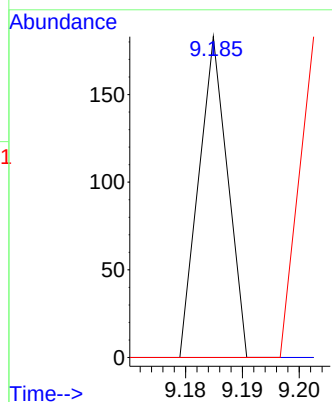


#49
1,4-Dioxane
Concen: 23.367 ug/l
RT: 9.185 min Scan# 11
Delta R.T. -0.276 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Instrument :
MSVOA_D
ClientSampleId :

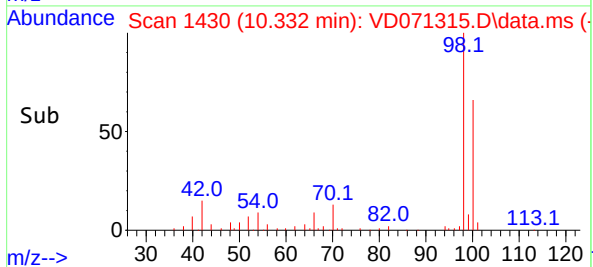
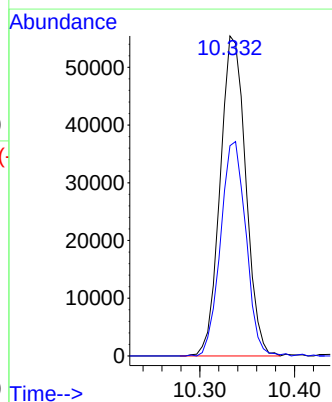
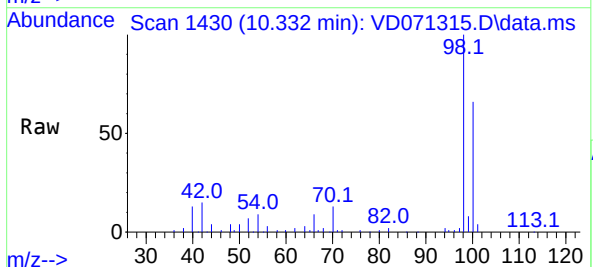


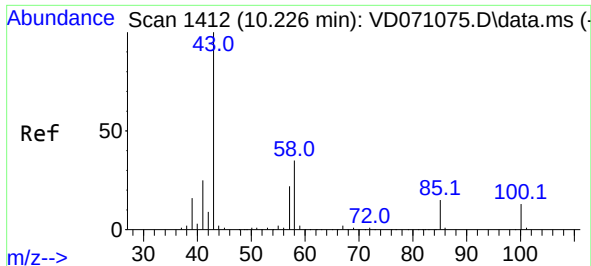
Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 0.0 28.9 43.3#
58 189.2 56.3 84.5#



#50
Toluene-d8
Concen: 51.490 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Tgt Ion: 98 Resp: 103804
Ion Ratio Lower Upper
98 100
100 66.5 51.8 77.6





#51

4-Methyl-2-Pentanone

Concen: 30.823 ug/l

RT: 10.244 min Scan# 1412

Delta R.T. 0.018 min

Lab File: VD071315.D

Acq: 14 Dec 2021 12:39

Instrument :

MSVOA_D

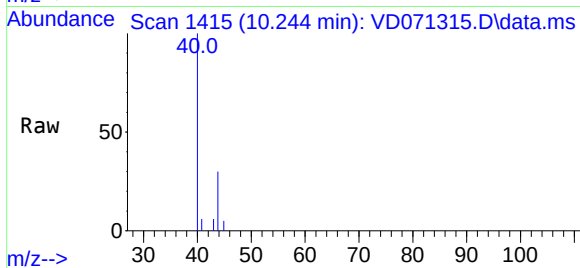
ClientSampleId :

Tgt Ion: 43 Resp: 74

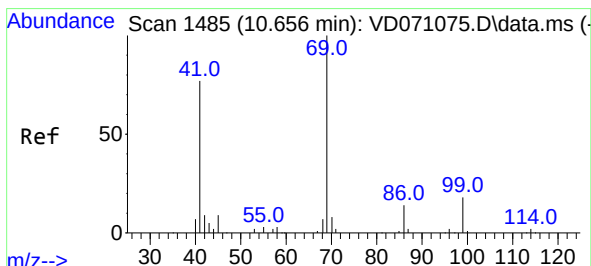
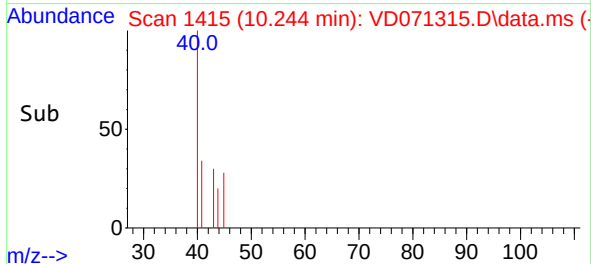
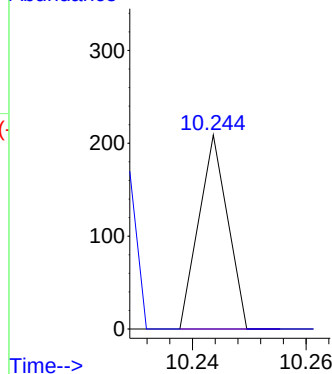
Ion Ratio Lower Upper

43 100

58 164.9 33.1 49.7#



Abundance



#56

Ethyl methacrylate

Concen: 6.064 ug/l

RT: 10.914 min Scan# 1529

Delta R.T. 0.258 min

Lab File: VD071315.D

Acq: 14 Dec 2021 12:39

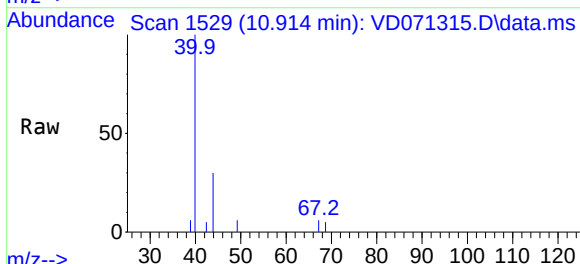
Tgt Ion: 69 Resp: 58

Ion Ratio Lower Upper

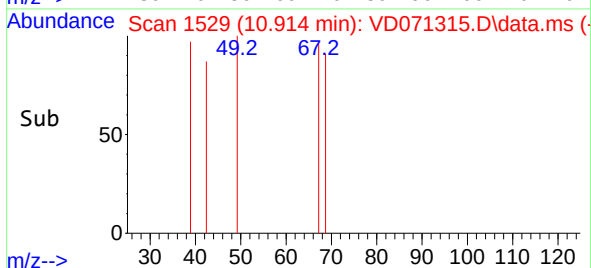
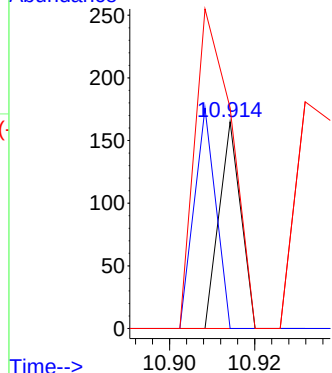
69 100

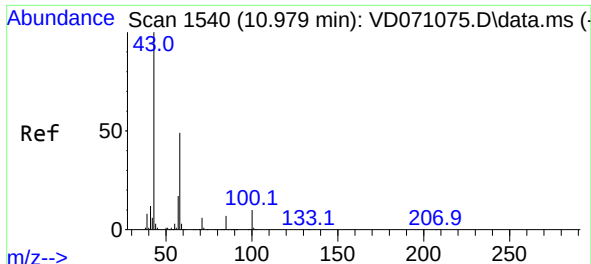
41 106.9 50.2 75.2#

39 262.1 19.8 29.8#



Abundance

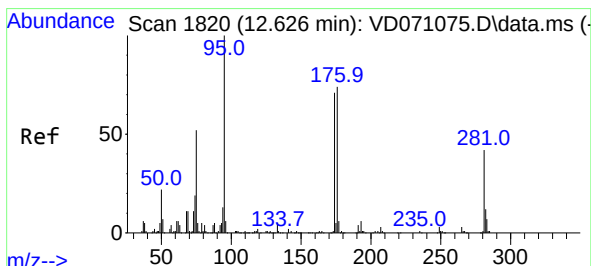
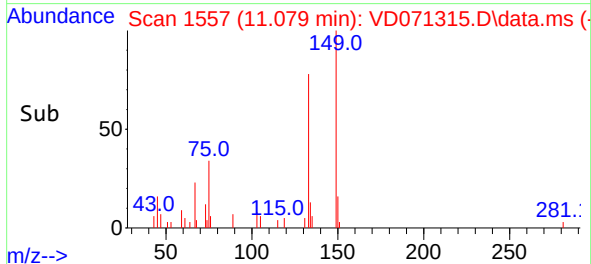
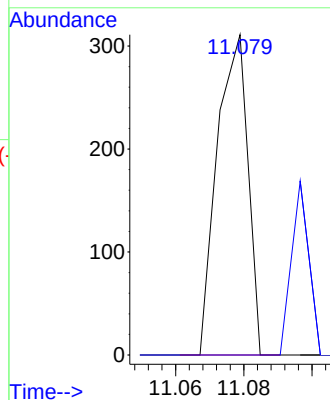
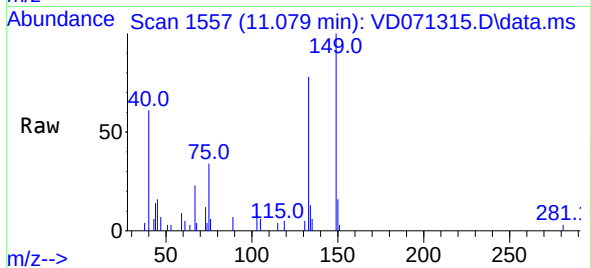




#59
2-Hexanone
Concen: 35.160 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.100 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

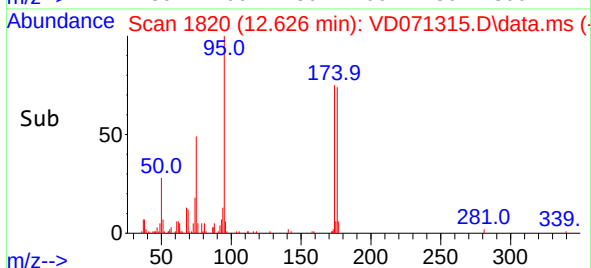
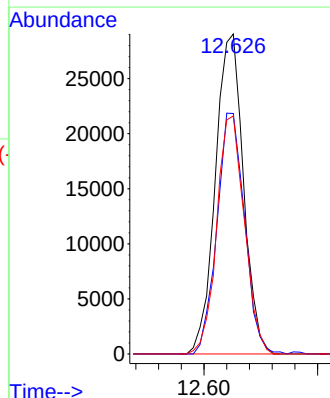
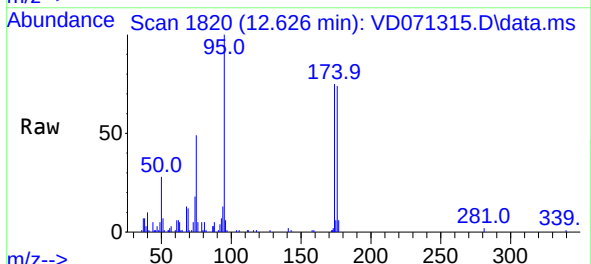
Instrument :
MSVOA_D
ClientSampleId :

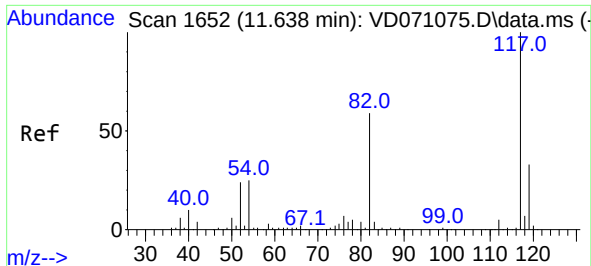
Tgt Ion: 43 Resp: 194
Ion Ratio Lower Upper
43 100
58 30.9 28.7 86.1



#62
4-Bromofluorobenzene
Concen: 71.231 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

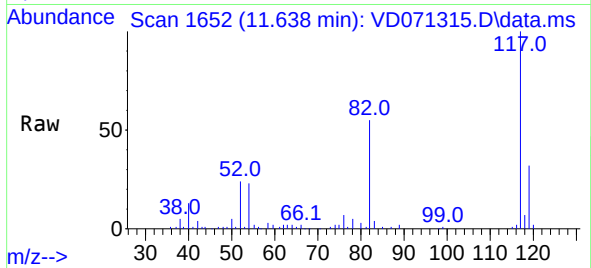
Tgt Ion: 95 Resp: 49778
Ion Ratio Lower Upper
95 100
174 74.0 0.0 159.4
176 73.1 0.0 154.0



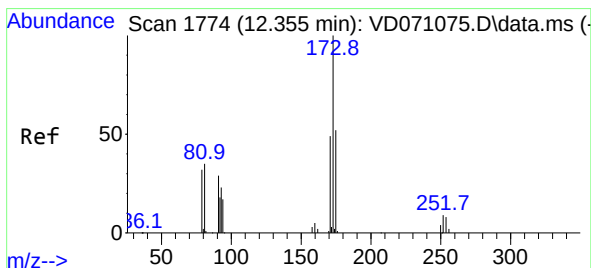
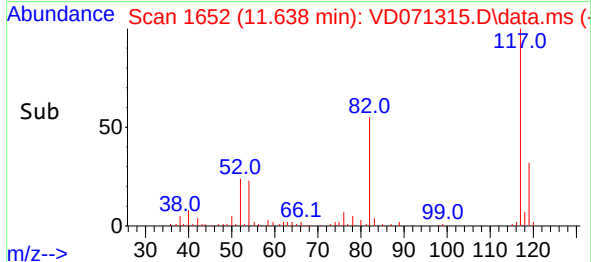
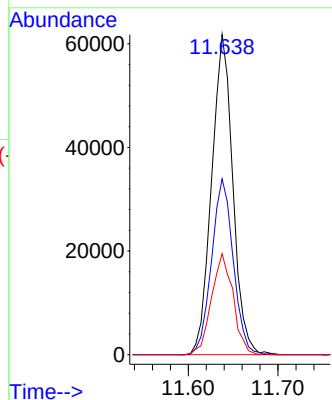


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Instrument :
MSVOA_D
ClientSampleId :

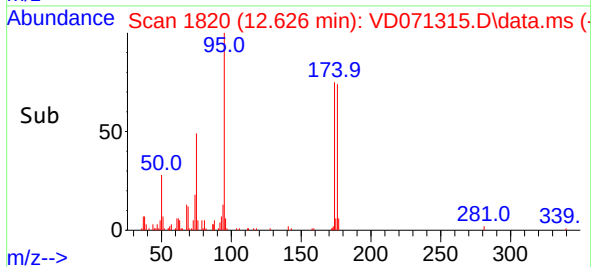
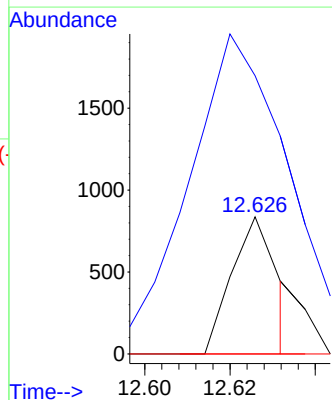
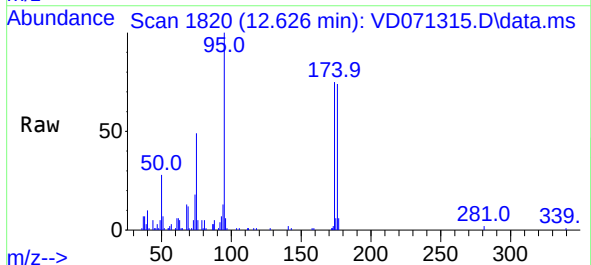


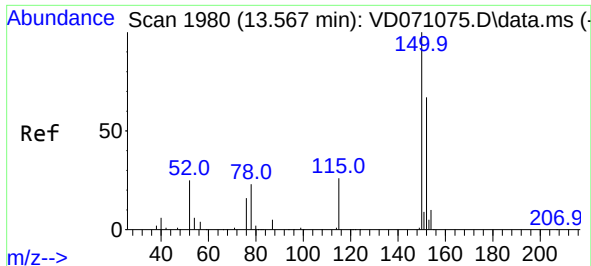
Tgt Ion:117 Resp: 101351
Ion Ratio Lower Upper
117 100
82 54.9 44.7 67.1
119 31.6 26.2 39.4



#71
Bromoform
Concen: 1.737 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.271 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Tgt Ion:173 Resp: 618
Ion Ratio Lower Upper
173 100
175 447.4 24.1 72.2#
254 0.0 0.1 0.1#

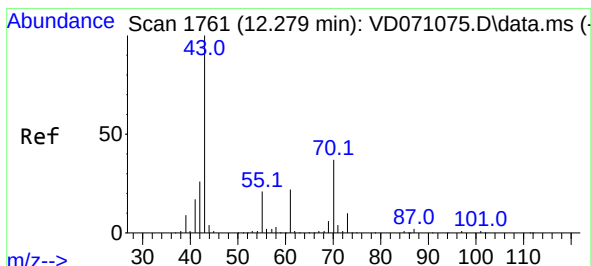
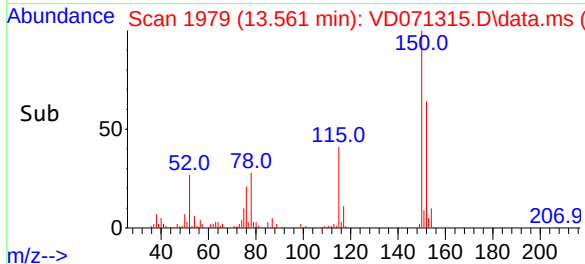
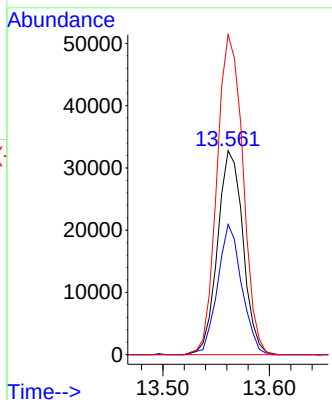
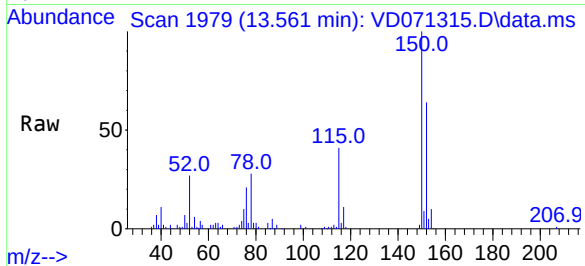




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

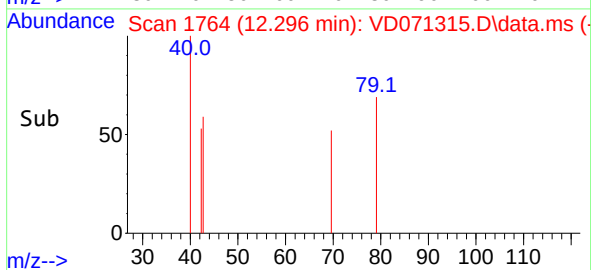
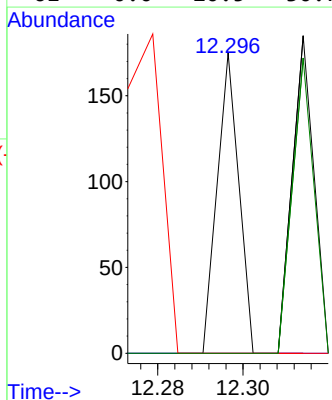
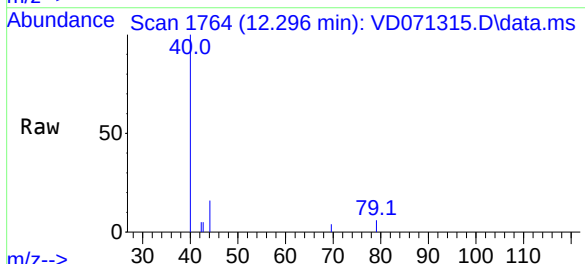
Instrument :
MSVOA_D
ClientSampleId :

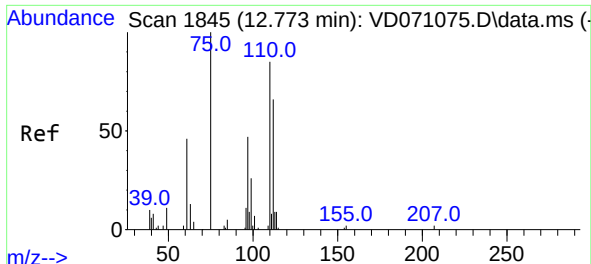
Tgt Ion:152 Resp: 54297
Ion Ratio Lower Upper
152 100
115 61.1 29.8 89.3
150 160.3 0.0 349.2



#74
N-ethyl acetate
Concen: 5.752 ug/l
RT: 12.296 min Scan# 1764
Delta R.T. 0.017 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Tgt Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 193.5 22.5 33.7#
61 0.0 20.5 30.7#

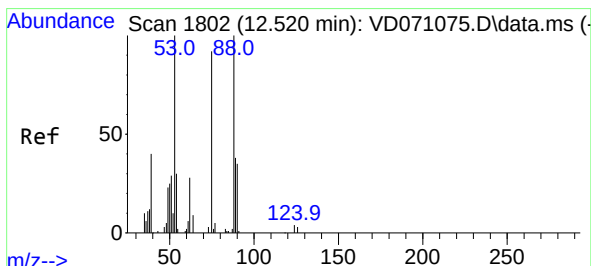
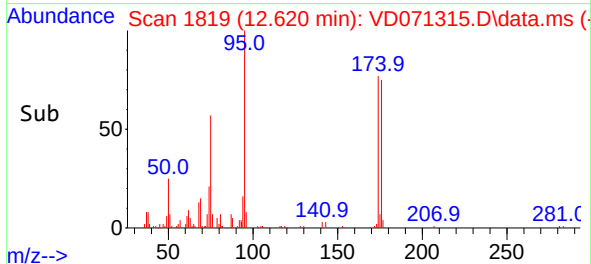
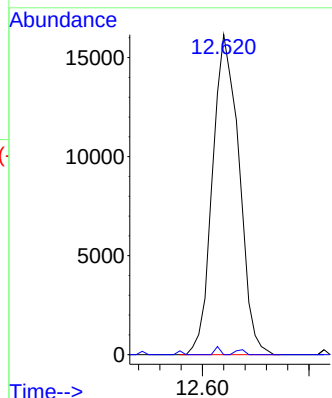
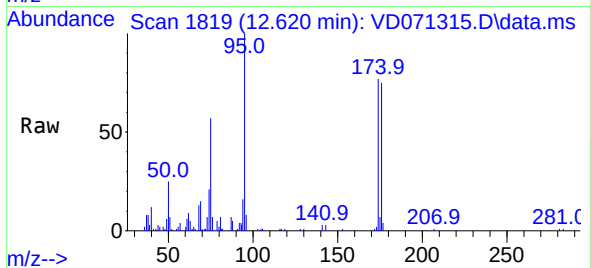




#76
1,2,3-Trichloropropane
Concen: 54.081 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 27977
Ion Ratio Lower Upper
75 100
77 0.5 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 117.659 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071315.D
Acq: 14 Dec 2021 12:39

Tgt Ion: 75 Resp: 27977
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.2 34.5 51.7#

