

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120721\
 Data File : VD071181.D
 Acq On : 07 Dec 2021 14:12
 Operator : VA/SY
 Sample : M4959-01
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 08 02:49:22 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)

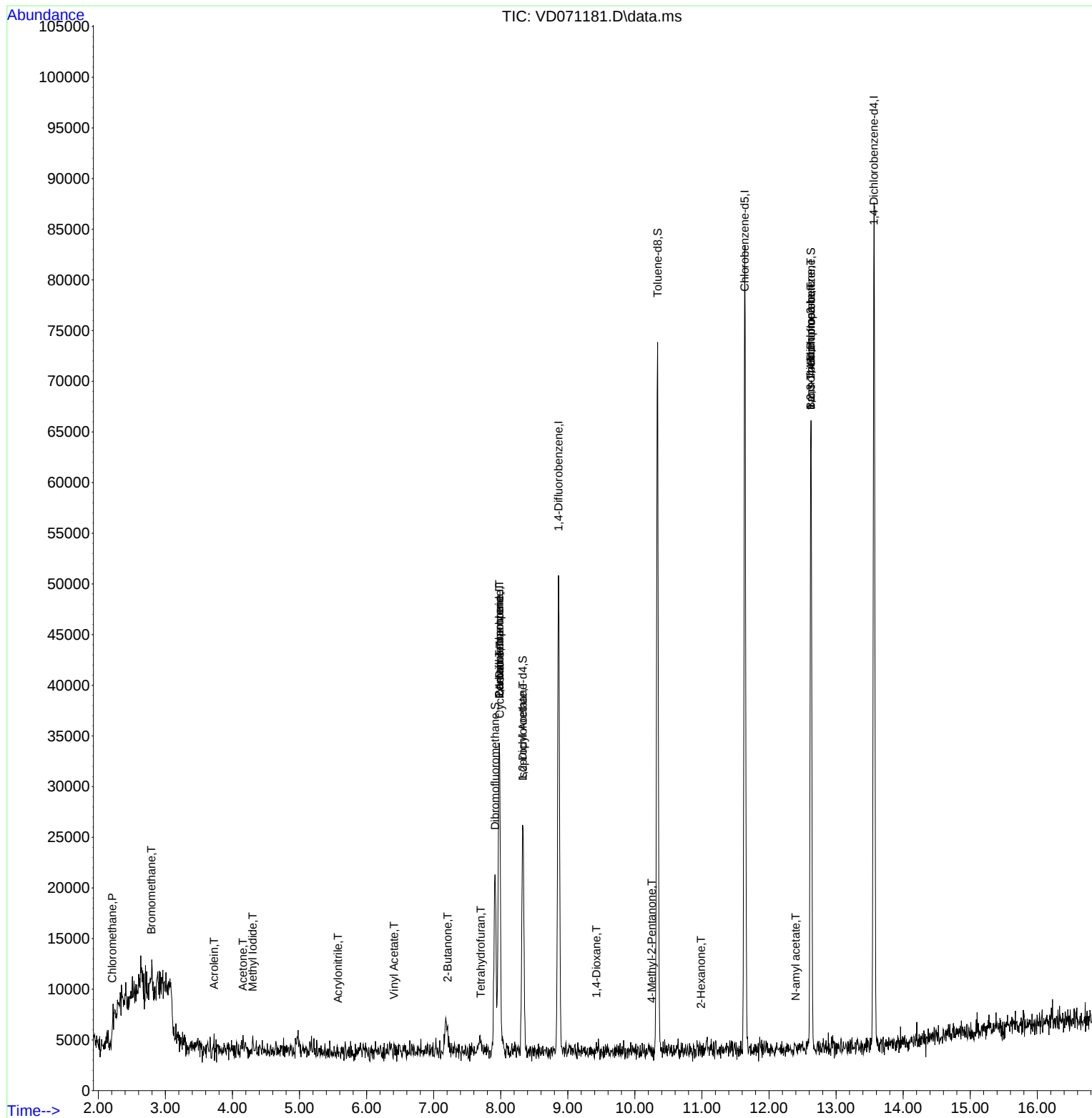
Internal Standards						
1) Pentafluorobenzene	7.979	168	21887	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	35871	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	40958	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	20354	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	17736	69.06	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 138.12%			
35) Dibromofluoromethane	7.914	113	11573	50.66	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.32%			
50) Toluene-d8	10.338	98	43974	50.59	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 101.18%			
62) 4-Bromofluorobenzene	12.626	95	20241	67.17	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 134.34%			
Target Compounds					Qvalue	
3) Chloromethane	2.209	50	378	1.53	ug/l #	70
5) Bromomethane	2.791	94	703	3.54	ug/l #	61
10) Methyl Iodide	4.303	142	268	5.51	ug/l #	40
11) Tert butyl alcohol	5.191	59	304	Below Cal	#	71
13) Acrolein	3.726	56	69	3.93	ug/l #	1
15) Acrylonitrile	5.573	53	55	1.12	ug/l #	57
16) Acetone	4.156	43	880	42.11	ug/l #	40
20) Methylene Chloride	4.973	84	981	Below Cal	#	47
23) Vinyl Acetate	6.409	43	55	27.34	ug/l #	72
25) 2-Butanone	7.209	43	139	29.92	ug/l #	45
29) Tetrahydrofuran	7.703	42	73	1.79	ug/l #	34
31) Cyclohexane	7.985	56	634	1.45	ug/l #	37
36) 1,1-Dichloropropene	7.979	75	2066	6.16	ug/l #	41
38) Carbon Tetrachloride	7.979	117	2485	7.52	ug/l #	12
41) Methacrylonitrile	7.444	41	60	Below Cal	#	2
43) Isopropyl Acetate	8.326	43	55	5.38	ug/l #	1
49) 1,4-Dioxane	9.426	88	56	46.69	ug/l #	23
51) 4-Methyl-2-Pentanone	10.250	43	83	31.10	ug/l #	34
59) 2-Hexanone	10.985	43	65	35.03	ug/l #	22
71) Bromoform	12.620	173	246	1.71	ug/l #	1
74) N-amyl acetate	12.397	43	73	5.86	ug/l #	40
76) 1,2,3-Trichloropropane	12.620	75	11018	56.82	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	11018	123.32	ug/l #	18

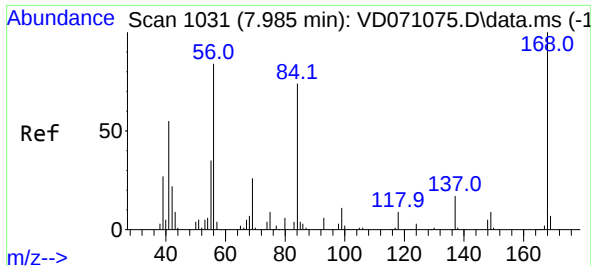
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Nov 29 17:54:09 2021
Response via : Initial Calibration

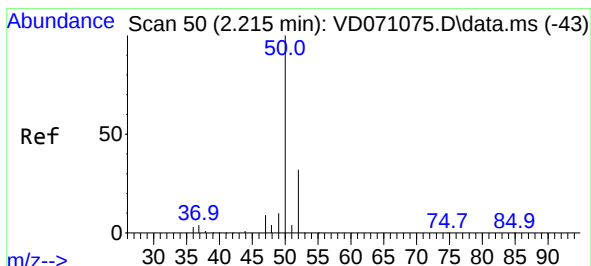
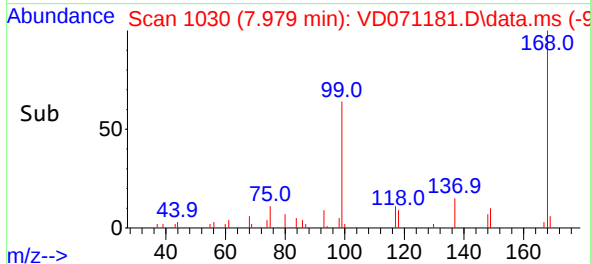
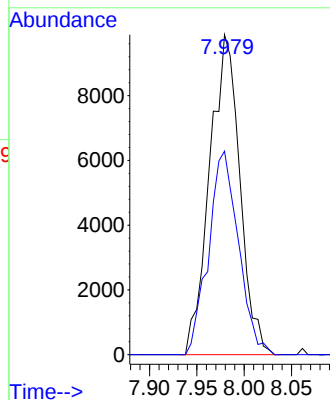
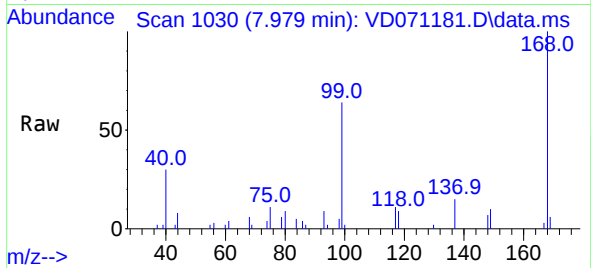




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

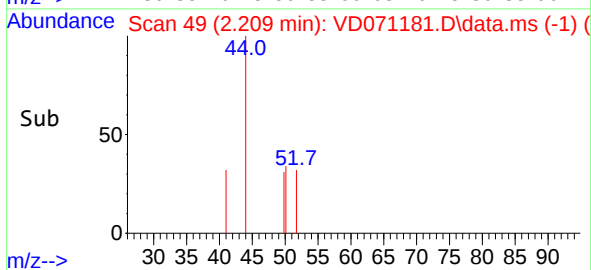
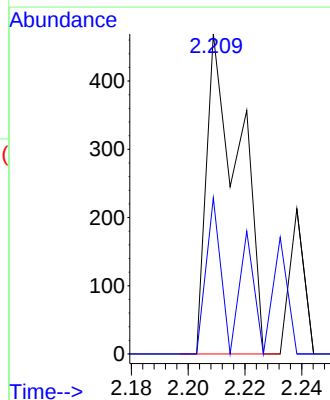
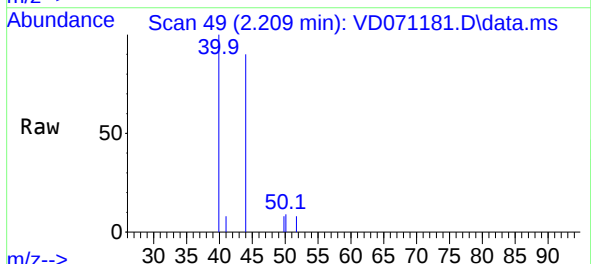
Instrument :
MSVOA_D
ClientSampleId :

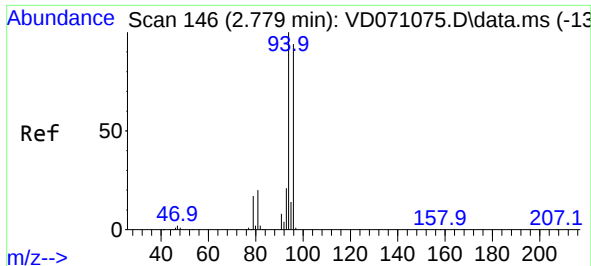
Tgt Ion:168 Resp: 21887
Ion Ratio Lower Upper
168 100
99 63.6 46.6 69.8



#3
Chloromethane
Concen: 1.53 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.006 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

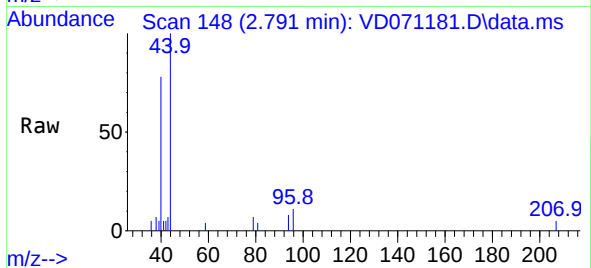
Tgt Ion: 50 Resp: 378
Ion Ratio Lower Upper
50 100
52 48.8 25.8 38.8#



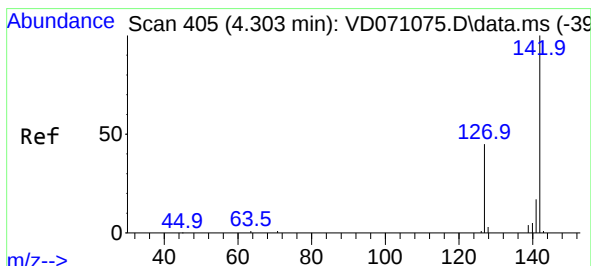
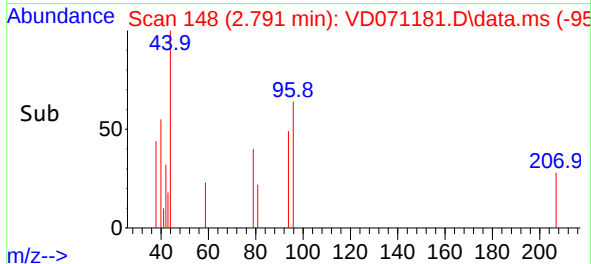
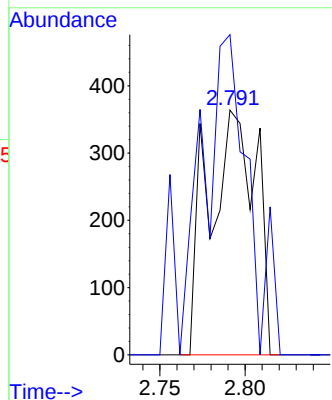


#5
Bromomethane
Concen: 3.54 ug/l
RT: 2.791 min Scan# 146
Delta R.T. 0.012 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

Instrument :
MSVOA_D
ClientSampleId :

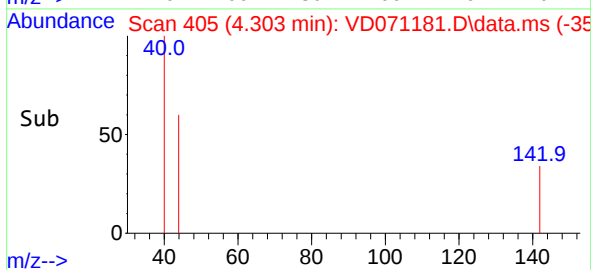
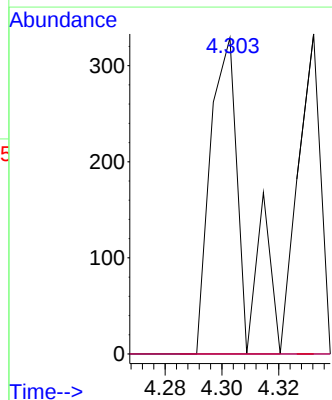
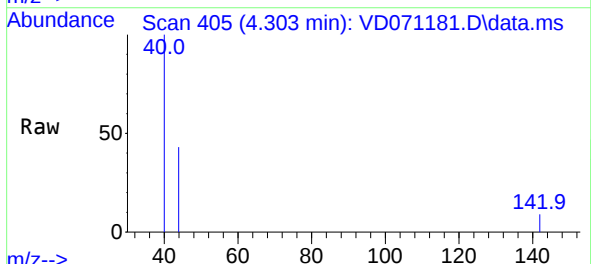


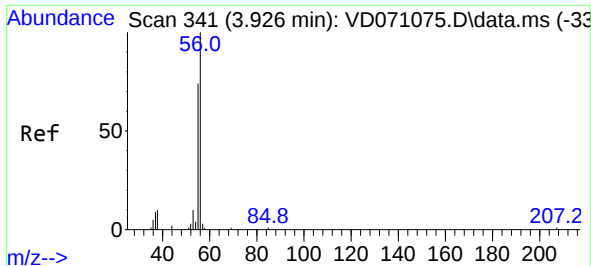
Tgt Ion: 94 Resp: 703
Ion Ratio Lower Upper
94 100
96 130.8 74.8 112.2#



#10
Methyl Iodide
Concen: 5.51 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.000 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

Tgt Ion: 142 Resp: 268
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#

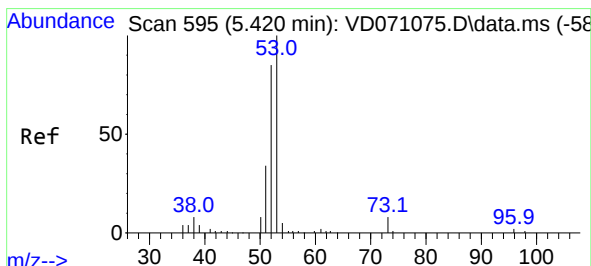
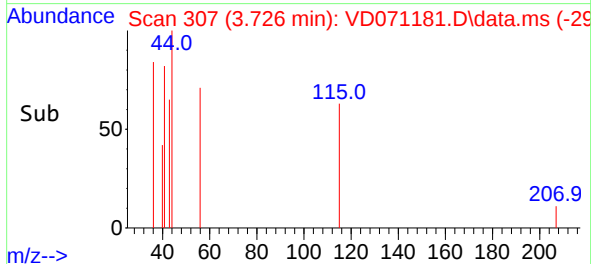
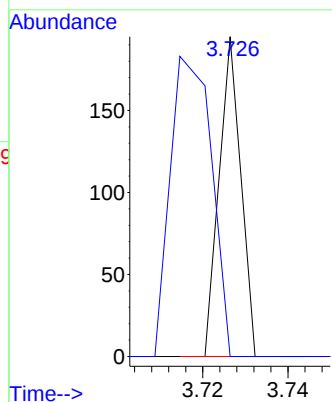
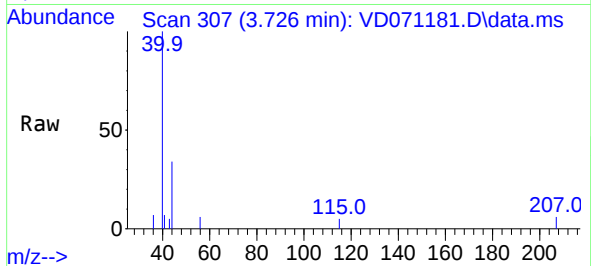




#13
Acrolein
Concen: 3.93 ug/l
RT: 3.726 min Scan# 30
Delta R.T. -0.200 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

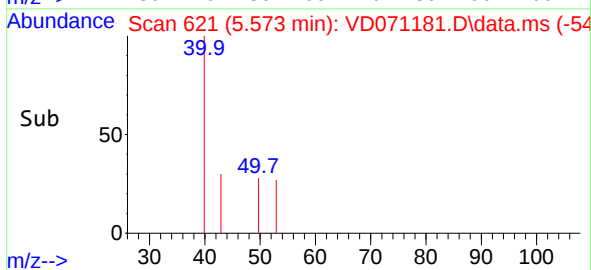
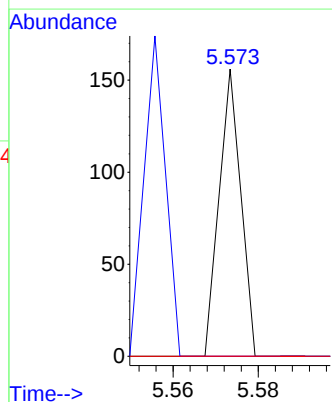
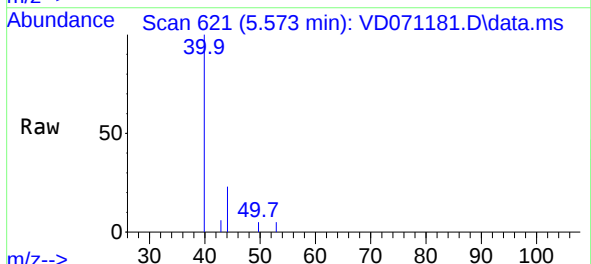
Instrument :
MSVOA_D
ClientSampleId :

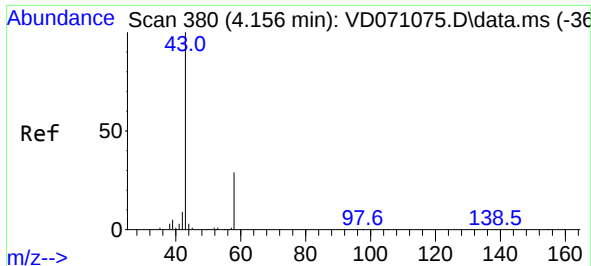
Tgt Ion: 56 Resp: 69
Ion Ratio Lower Upper
56 100
55 178.3 58.6 87.8#



#15
Acrylonitrile
Concen: 1.12 ug/l
RT: 5.573 min Scan# 621
Delta R.T. 0.153 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

Tgt Ion: 53 Resp: 55
Ion Ratio Lower Upper
53 100
52 110.9 63.8 95.8#
51 0.0 28.5 42.7#

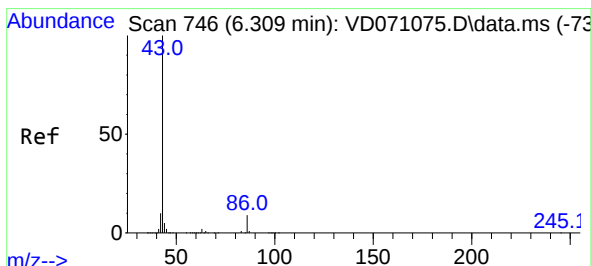
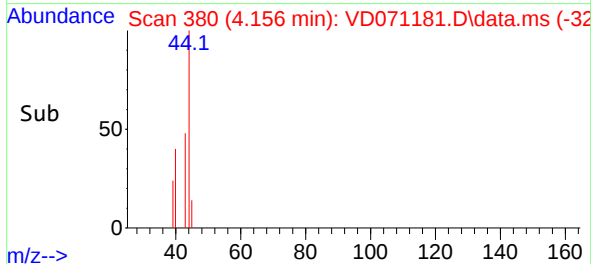
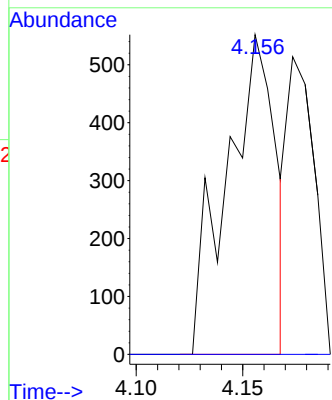
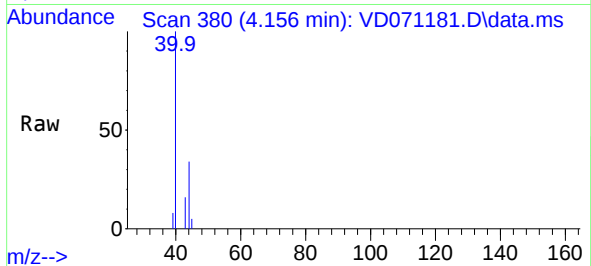




#16
Acetone
Concen: 42.11 ug/l
RT: 4.156 min Scan# 31
Delta R.T. -0.000 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

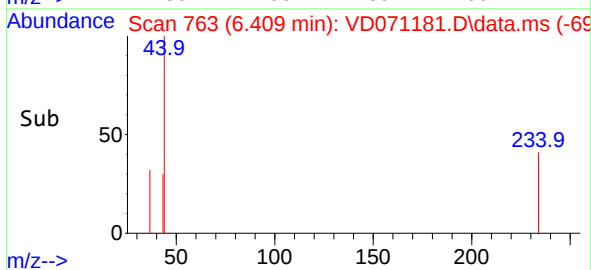
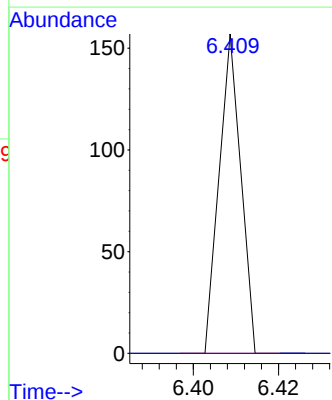
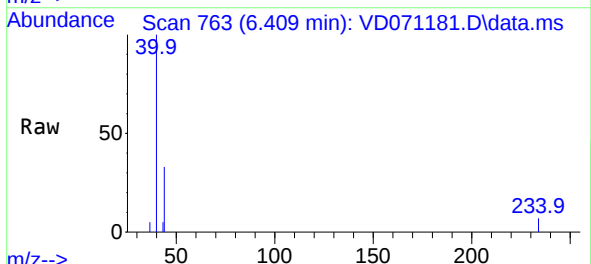
Instrument :
MSVOA_D
ClientSampleId :

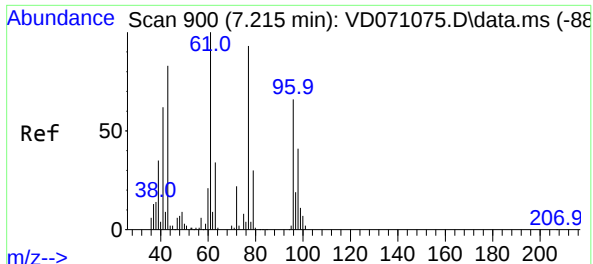
Tgt Ion: 43 Resp: 880
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#23
Vinyl Acetate
Concen: 27.34 ug/l
RT: 6.409 min Scan# 763
Delta R.T. 0.100 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

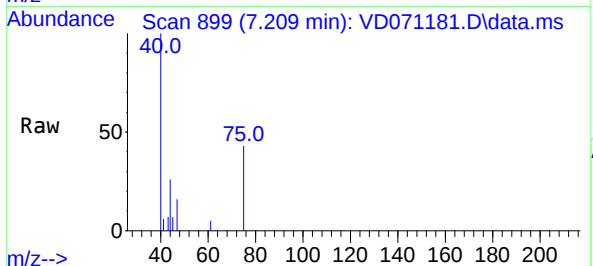
Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#



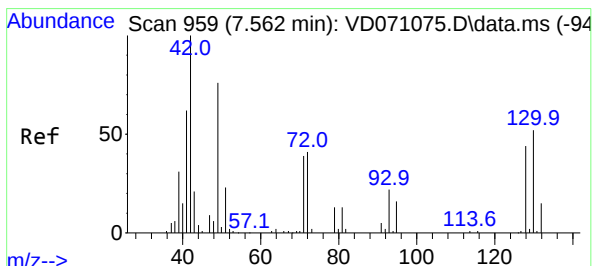
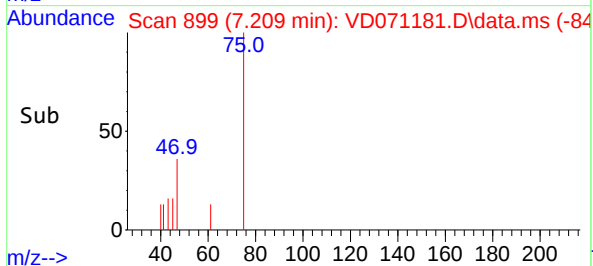
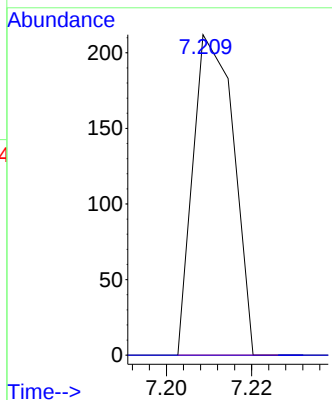


#25
2-Butanone
Concen: 29.92 ug/l
RT: 7.209 min Scan# 899
Delta R.T. -0.006 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

Instrument :
MSVOA_D
ClientSampleId :

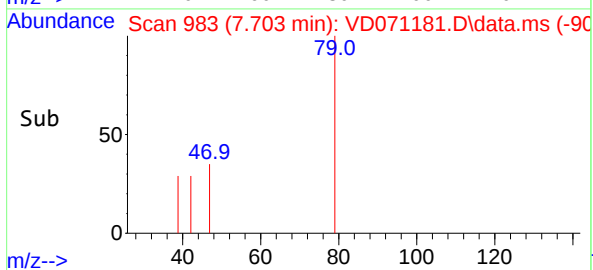
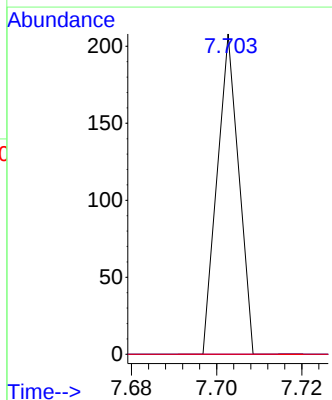
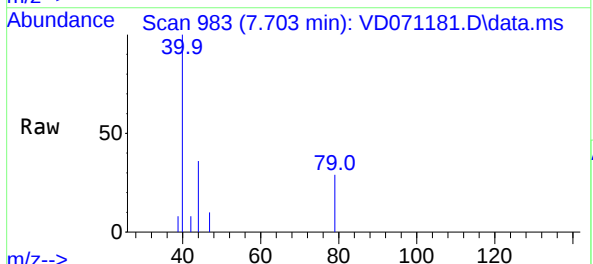


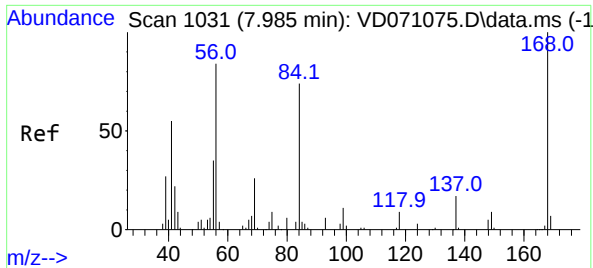
Tgt Ion: 43 Resp: 139
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#29
Tetrahydrofuran
Concen: 1.79 ug/l
RT: 7.703 min Scan# 983
Delta R.T. 0.141 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

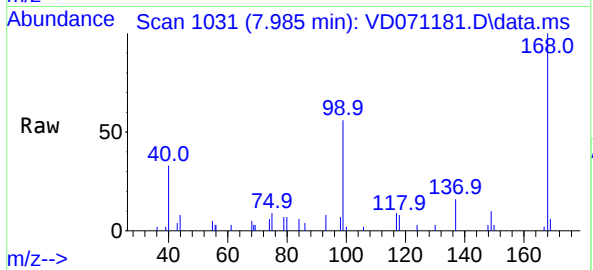
Tgt Ion: 42 Resp: 73
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 32.7 49.1#



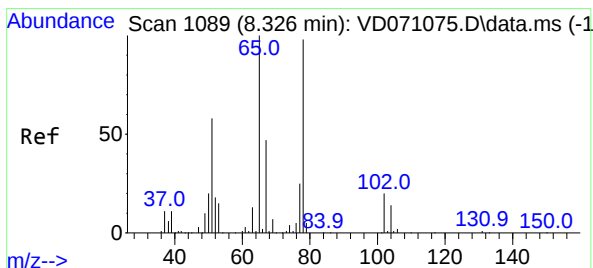
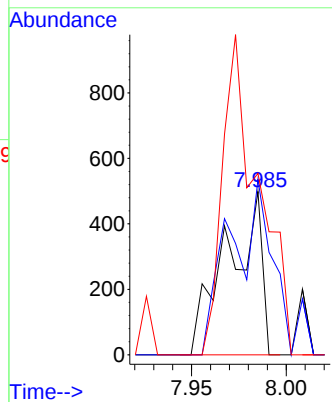
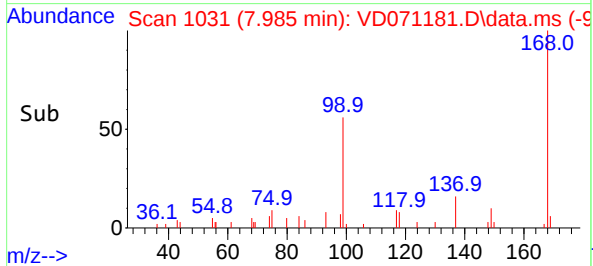


#31
Cyclohexane
Concen: 1.45 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

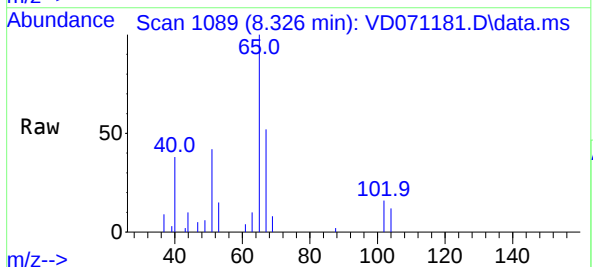
Instrument :
MSVOA_D
ClientSampleId :



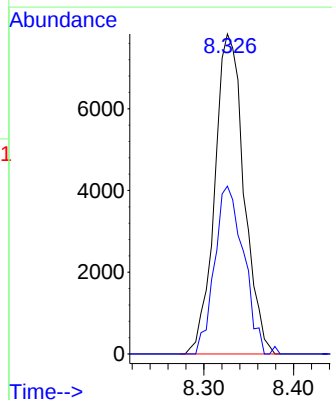
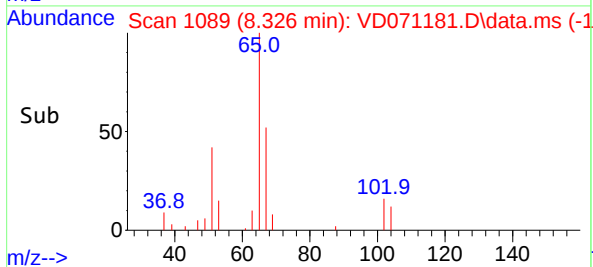
Tgt Ion: 56 Resp: 634
Ion Ratio Lower Upper
56 100
69 107.4 25.9 38.9#
84 111.0 64.3 96.5#

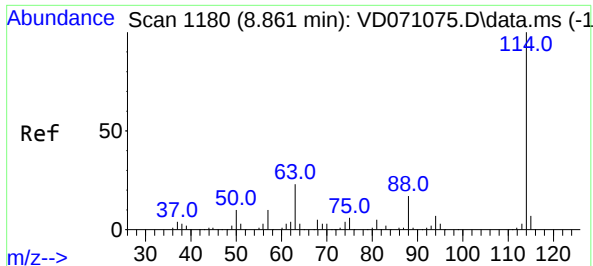


#33
1,2-Dichloroethane-d4
Concen: 69.06 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12



Tgt Ion: 65 Resp: 17736
Ion Ratio Lower Upper
65 100
67 51.7 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071181.D

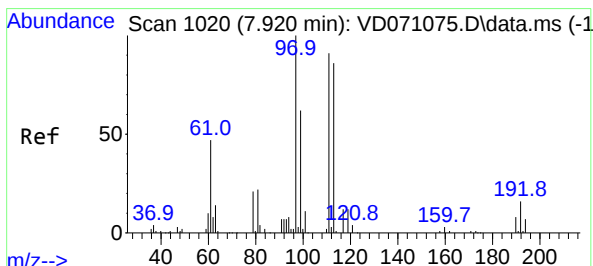
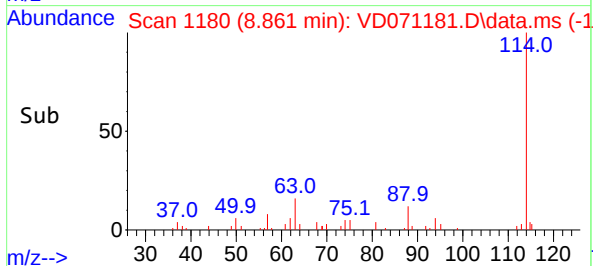
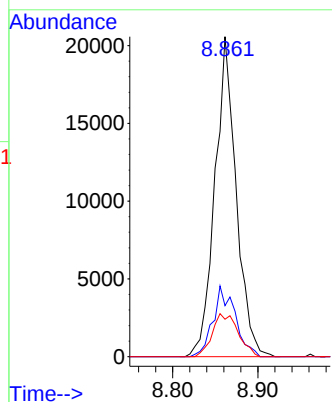
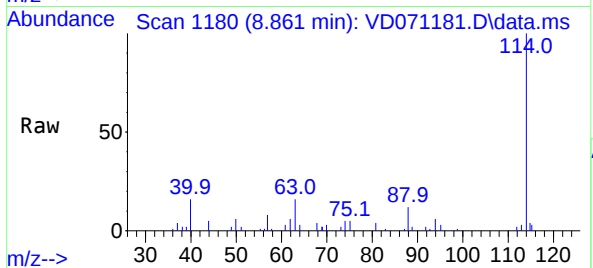
Acq: 07 Dec 2021 14:12

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	114	Resp:	35871
Ion Ratio	Lower	Upper	
114	100		
63	16.0	0.0	41.8
88	11.7	0.0	32.8



#35

Dibromofluoromethane

Concen: 50.66 ug/l

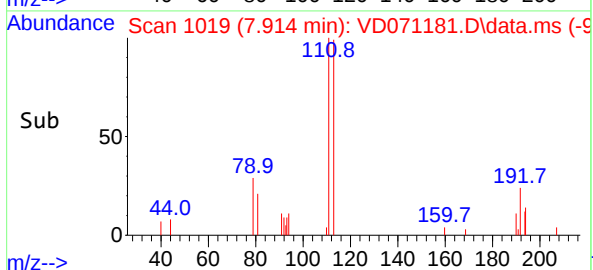
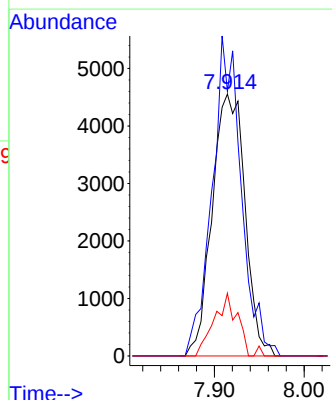
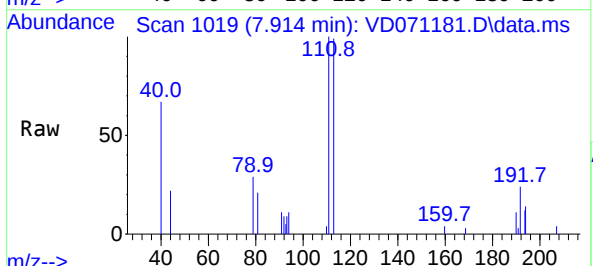
RT: 7.914 min Scan# 1019

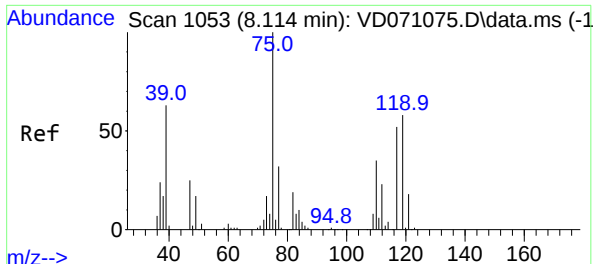
Delta R.T. -0.006 min

Lab File: VD071181.D

Acq: 07 Dec 2021 14:12

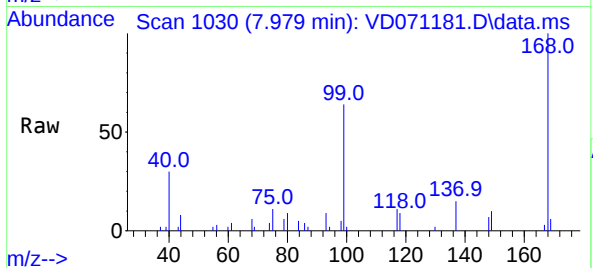
Tgt Ion:	113	Resp:	11573
Ion Ratio	Lower	Upper	
113	100		
111	107.8	82.0	123.0
192	16.7	15.2	22.8



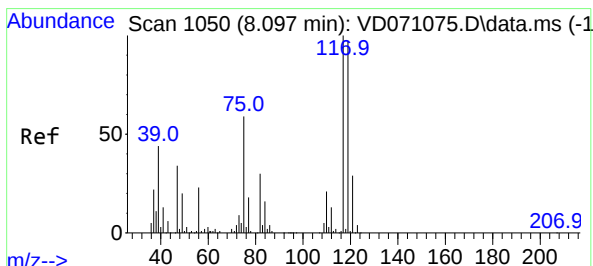
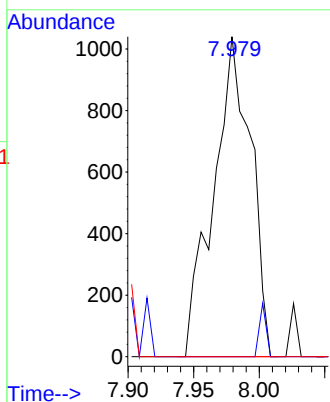
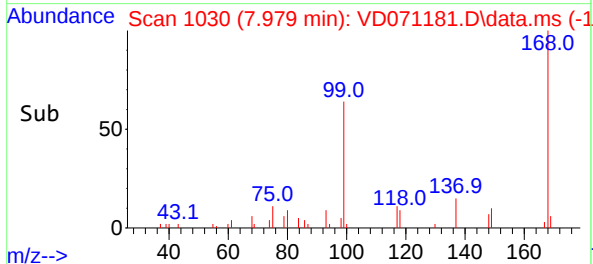


#36
1,1-Dichloropropene
Concen: 6.16 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.135 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

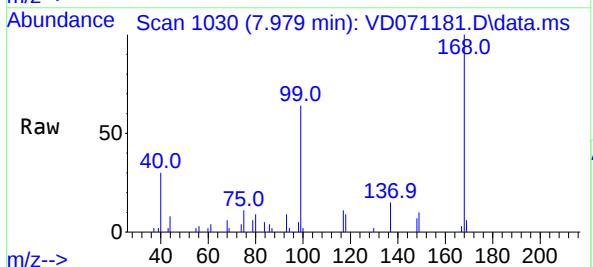
Instrument :
MSVOA_D
ClientSampleId :



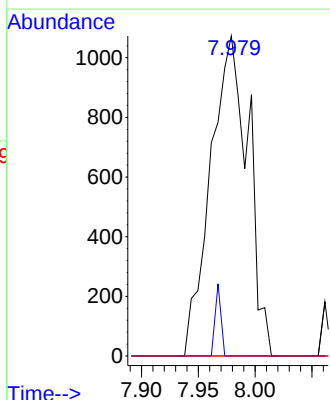
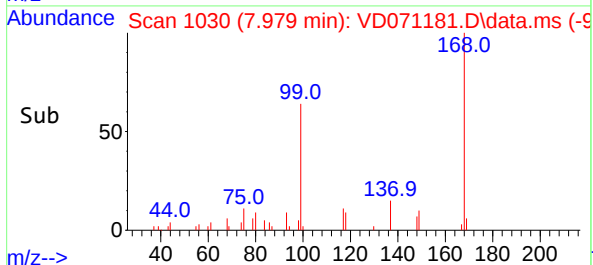
Tgt Ion: 75 Resp: 2066
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#

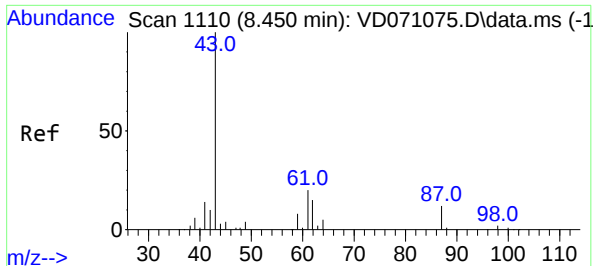


#38
Carbon Tetrachloride
Concen: 7.52 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12



Tgt Ion: 117 Resp: 2485
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#

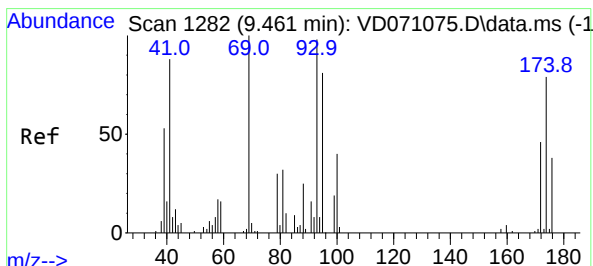
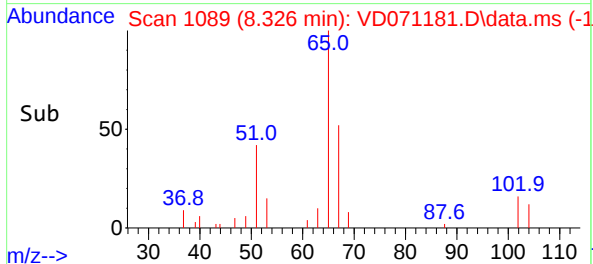
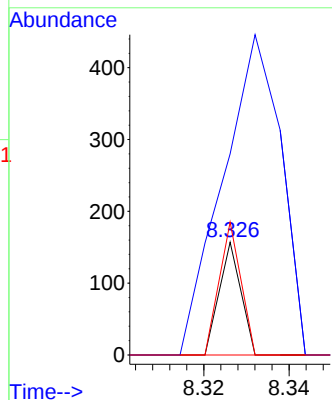
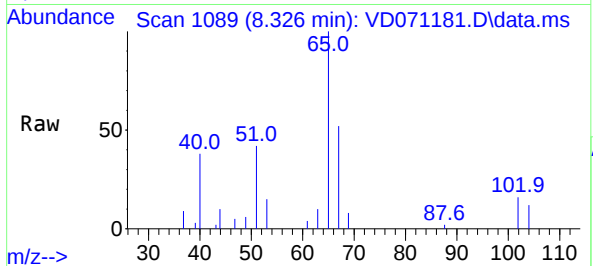




#43
Isopropyl Acetate
Concen: 5.38 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.124 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

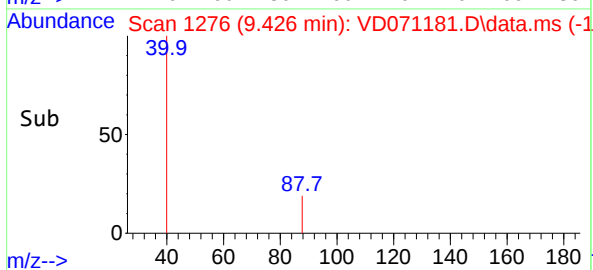
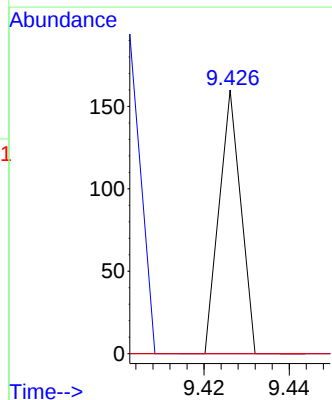
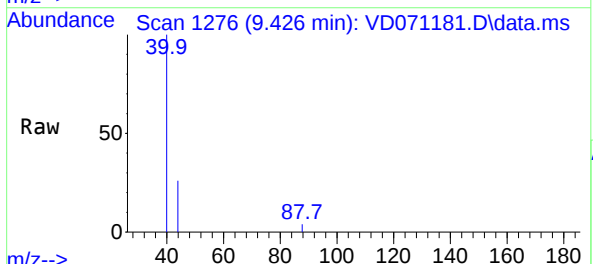
Instrument :
MSVOA_D
ClientSampleId :

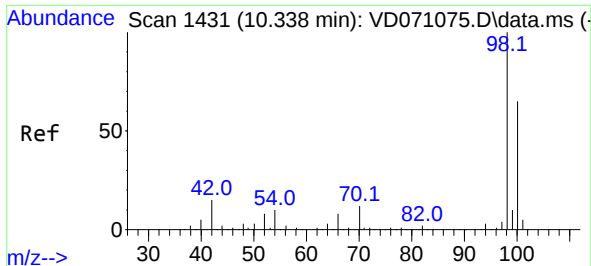
Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
61 767.3 28.2 42.4#
87 118.2 10.7 16.1#



#49
1,4-Dioxane
Concen: 46.69 ug/l
RT: 9.426 min Scan# 1276
Delta R.T. -0.035 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

Tgt Ion: 88 Resp: 56
Ion Ratio Lower Upper
88 100
43 0.0 28.9 43.3#
58 0.0 56.3 84.5#

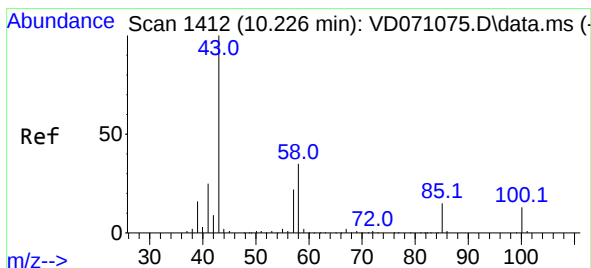
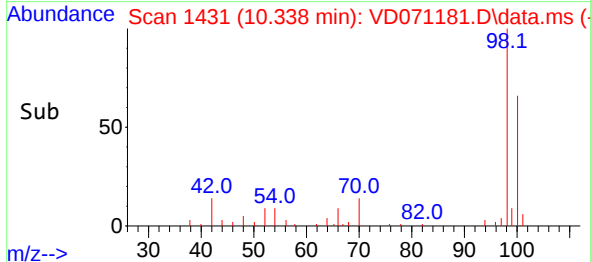
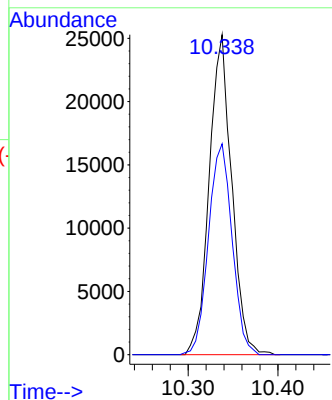
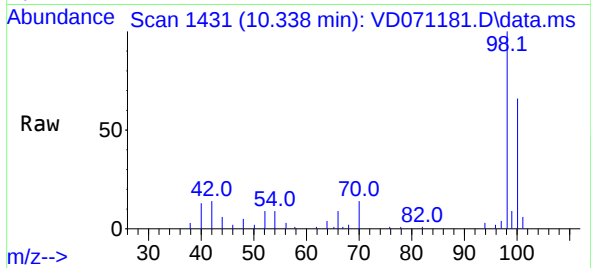




#50
Toluene-d8
Concen: 50.59 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

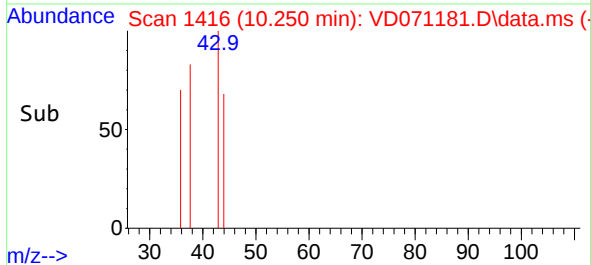
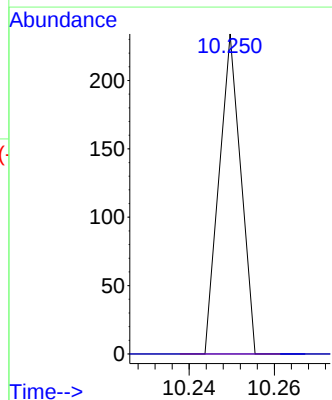
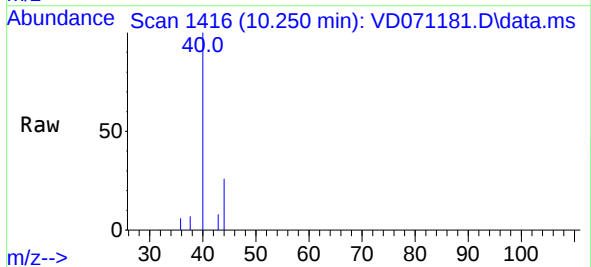
Instrument :
MSVOA_D
ClientSampleId :

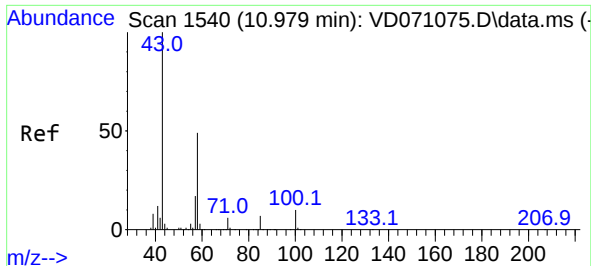
Tgt Ion: 98 Resp: 43974
Ion Ratio Lower Upper
98 100
100 69.2 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 31.10 ug/l
RT: 10.250 min Scan# 1416
Delta R.T. 0.024 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

Tgt Ion: 43 Resp: 83
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

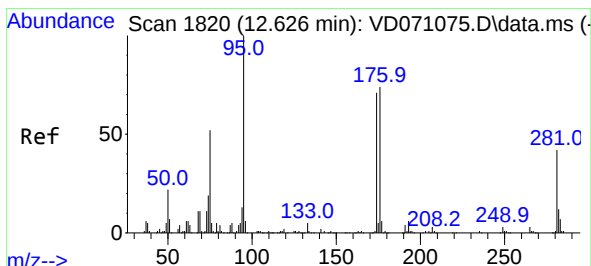
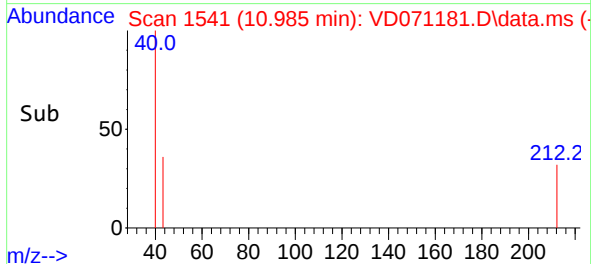
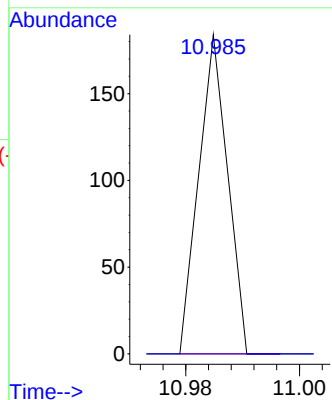
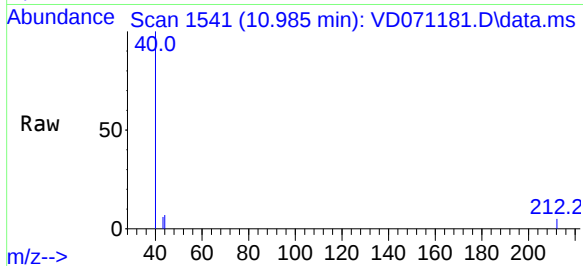




#59
2-Hexanone
Concen: 35.03 ug/l
RT: 10.985 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

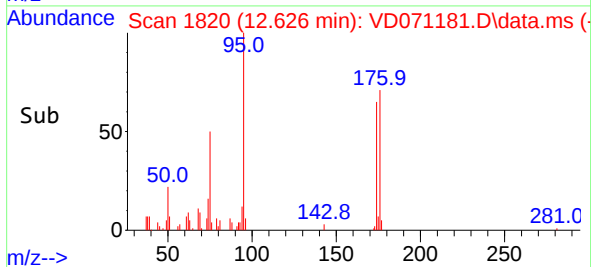
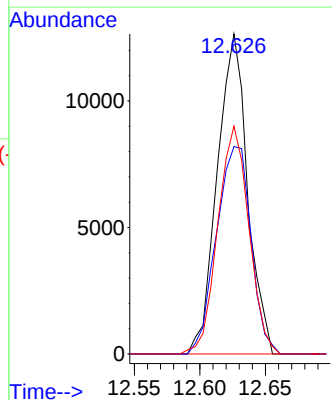
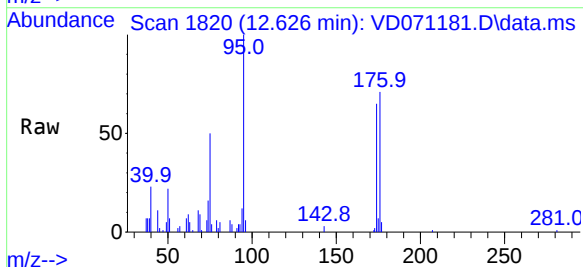
Instrument :
MSVOA_D
ClientSampleId :

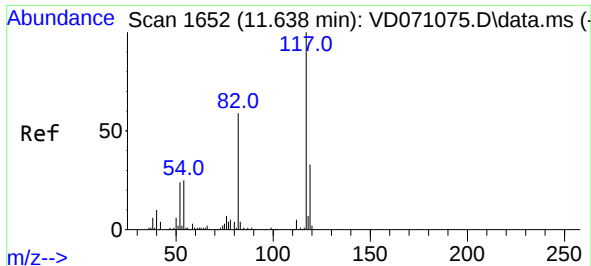
Tgt Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 67.17 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

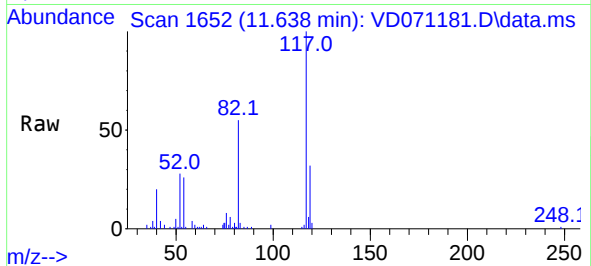
Tgt Ion: 95 Resp: 20241
Ion Ratio Lower Upper
95 100
174 74.1 0.0 159.4
176 73.3 0.0 154.0



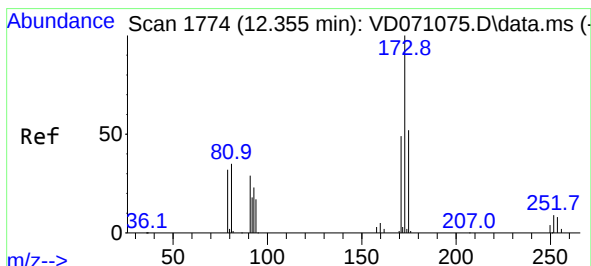
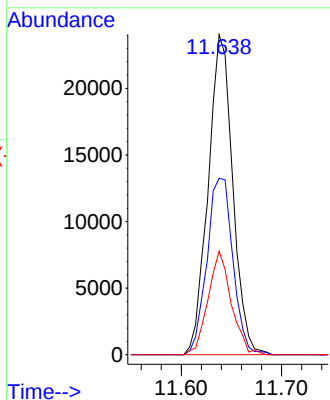
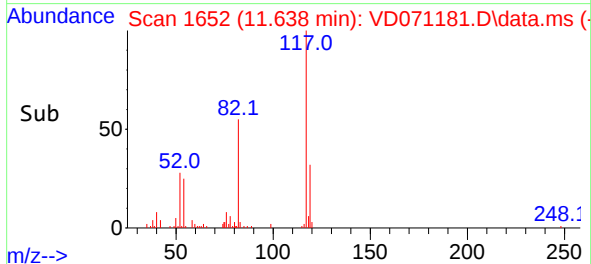


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.638 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

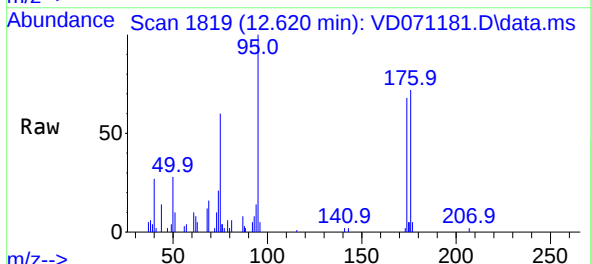
Instrument :
MSVOA_D
ClientSampleId :



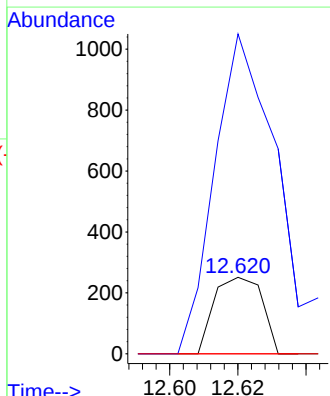
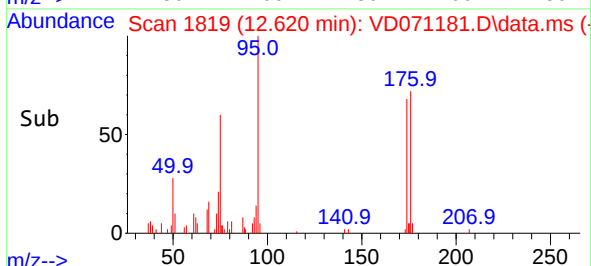
Tgt Ion:117 Resp: 40958
Ion Ratio Lower Upper
117 100
82 55.1 44.7 67.1
119 32.4 26.2 39.4

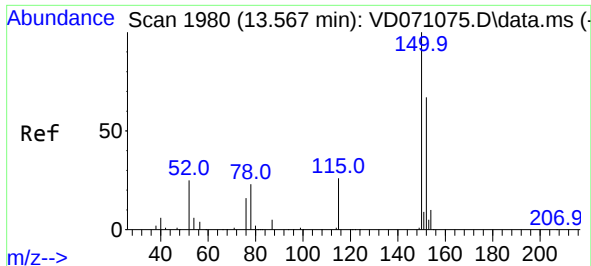


#71
Bromoform
Concen: 1.71 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.265 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12



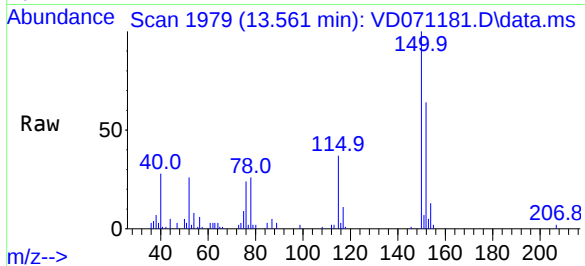
Tgt Ion:173 Resp: 246
Ion Ratio Lower Upper
173 100
175 499.6 24.1 72.2#
254 0.0 0.1 0.1#



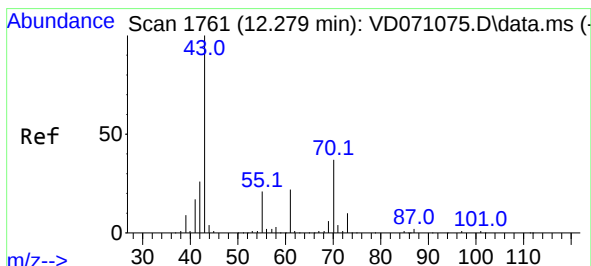
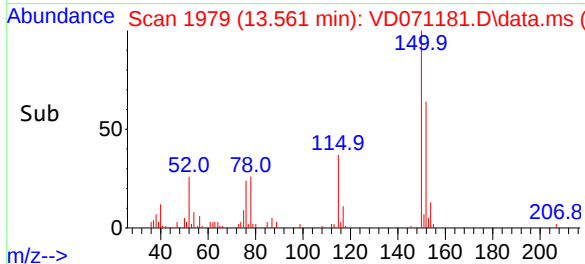
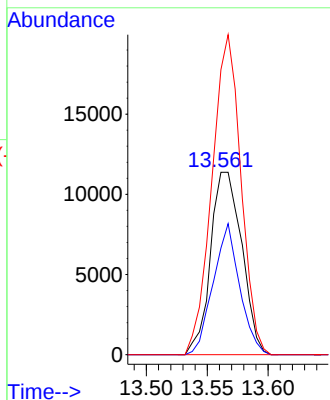


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

Instrument :
MSVOA_D
ClientSampleId :

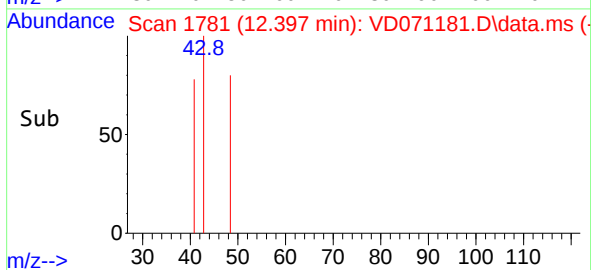
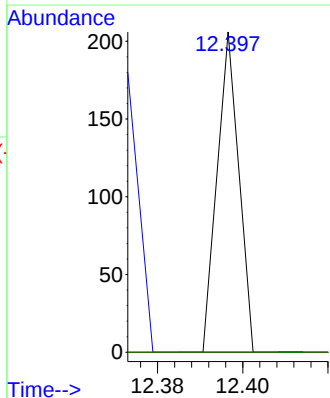
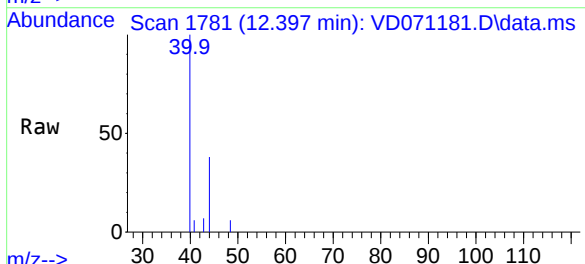


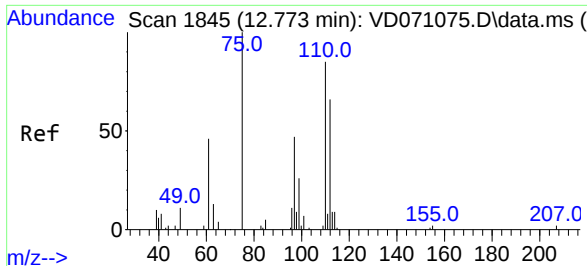
Tgt Ion:152 Resp: 20354
Ion Ratio Lower Upper
152 100
115 60.8 29.8 89.3
150 162.6 0.0 349.2



#74
N-ethyl acetate
Concen: 5.86 ug/l
RT: 12.397 min Scan# 1781
Delta R.T. 0.118 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

Tgt Ion: 43 Resp: 73
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#

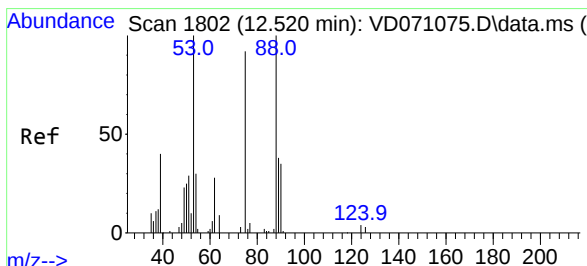
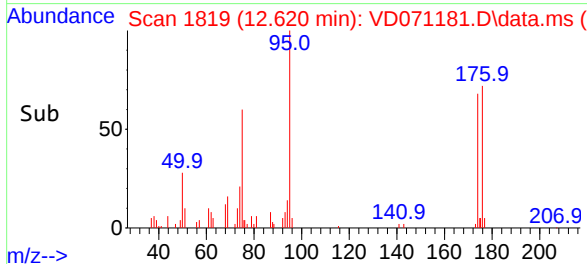
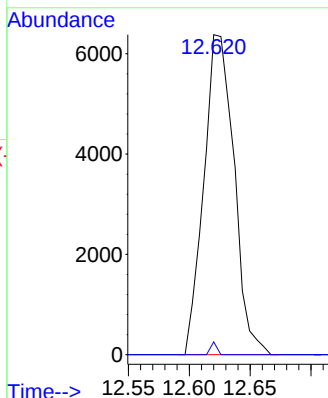
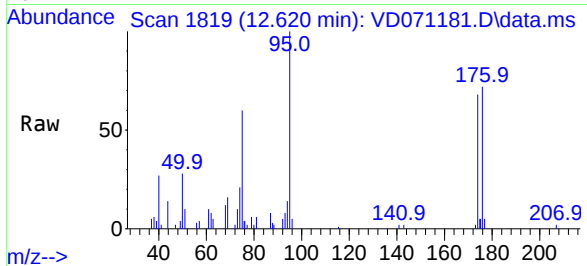




#76
1,2,3-Trichloropropane
Concen: 56.82 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 11018
Ion Ratio Lower Upper
75 100
77 0.8 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 123.32 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071181.D
Acq: 07 Dec 2021 14:12

Tgt Ion: 75 Resp: 11018
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#

