

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD031424\
 Data File : VD078670.D
 Acq On : 14 Mar 2024 16:50
 Operator : RP/MD
 Sample : P1744-02
 Misc : 5.06G/5ml/MSVOA_D/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RT-3488

Quant Time: Mar 15 05:50:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 05:38:03 2024
 Response via : Initial Calibration

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

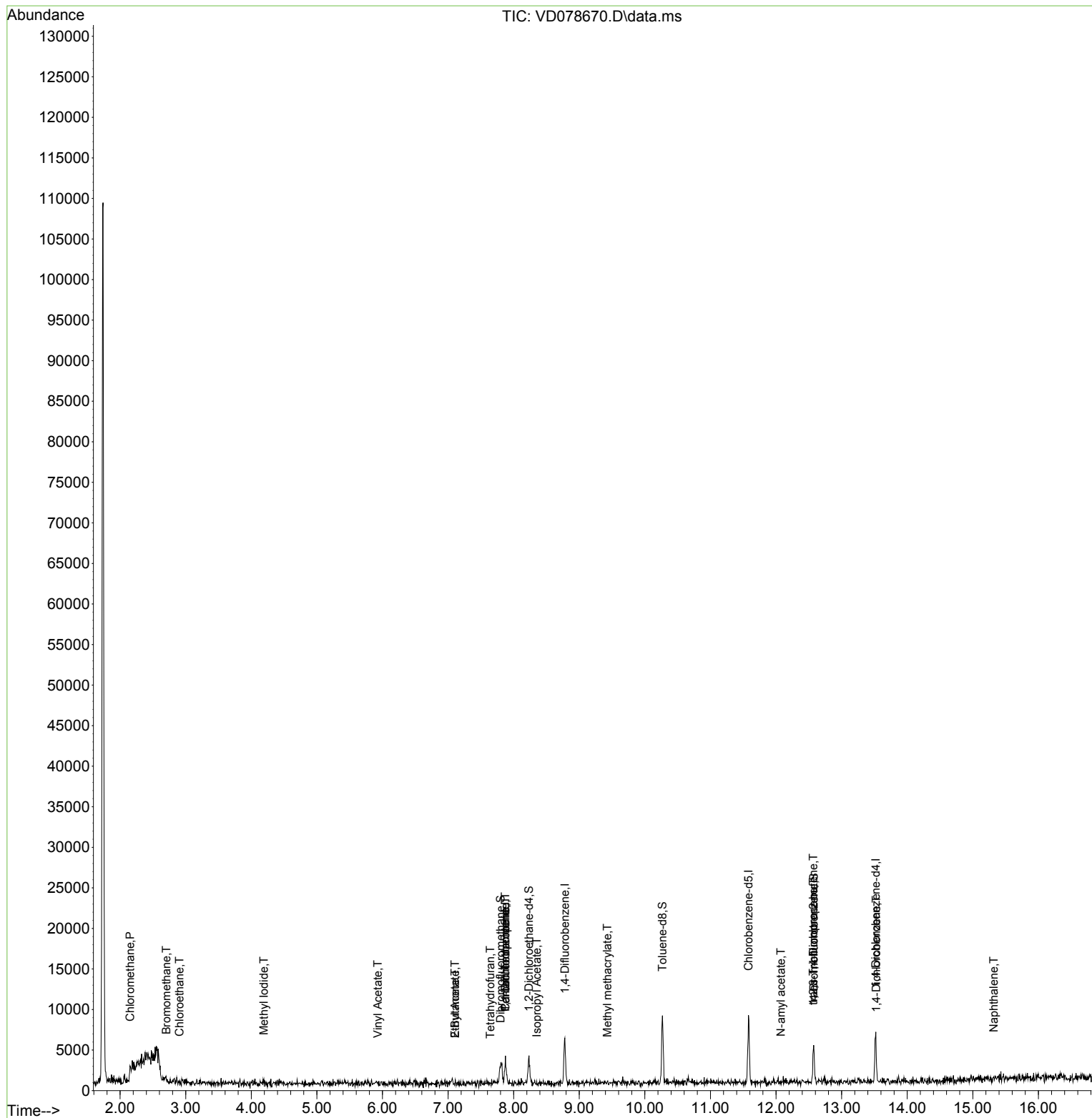
Internal Standards						
1) Pentafluorobenzene	7.875	168	2893	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.781	114	5504	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	5369	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	1918	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	2984	110.061	ug/l	0.00
Spiked Amount 50.000	Range	50 - 163	Recovery	= 220.120%#		
35) Dibromofluoromethane	7.798	113	2503	70.632	ug/l	0.00
Spiked Amount 50.000	Range	54 - 147	Recovery	= 141.260%		
50) Toluene-d8	10.269	98	6510	49.951	ug/l	0.00
Spiked Amount 50.000	Range	58 - 134	Recovery	= 99.900%		
62) 4-Bromofluorobenzene	12.575	95	1705	44.718	ug/l	0.00
Spiked Amount 50.000	Range	30 - 143	Recovery	= 89.440%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.152	50	109	2.564	ug/l #	43
5) Bromomethane	2.705	94	171	2.848	ug/l #	1
6) Chloroethane	2.905	64	83	1.697	ug/l #	41
10) Methyl Iodide	4.193	142	326	8.851	ug/l #	42
20) Methylene Chloride	4.787	84	84	Below Cal	#	15
23) Vinyl Acetate	5.928	43	66	1.503	ug/l #	67
25) 2-Butanone	7.104	43	55	7.891	ug/l #	43
29) Tetrahydrofuran	7.646	42	66	17.409	ug/l #	25
36) 1,1-Dichloropropene	7.875	75	66	1.284	ug/l #	40
37) Ethyl Acetate	7.104	43	55	3.274	ug/l #	63
38) Carbon Tetrachloride	7.875	117	234	4.317	ug/l #	11
43) Isopropyl Acetate	8.351	43	59	1.931	ug/l #	44
48) Methyl methacrylate	9.428	41	67	4.501	ug/l #	5
74) N-amyl acetate	12.075	43	67	3.268	ug/l #	36
76) 1,2,3-Trichloropropane	12.569	75	814	55.086	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.569	75	814	115.468	ug/l #	19
88) 1,4-Dichlorobenzene	13.528	146	321	4.928	ug/l #	42
95) Naphthalene	15.322	128	71	1.229	ug/l #	70

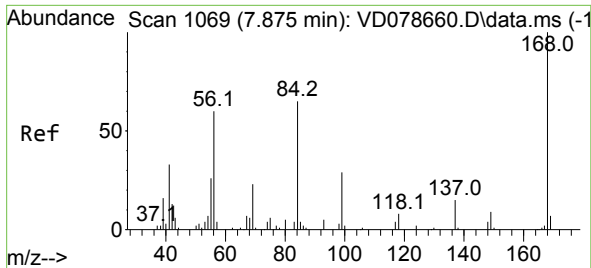
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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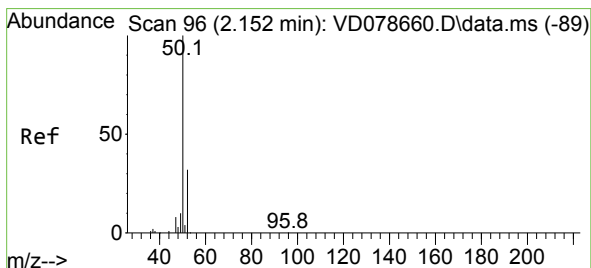
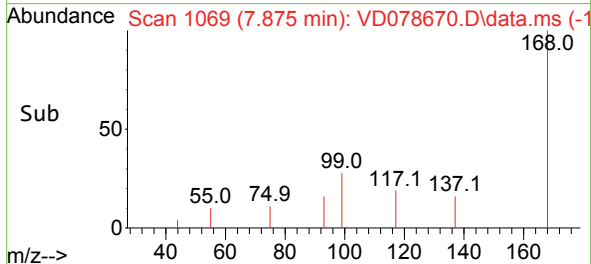
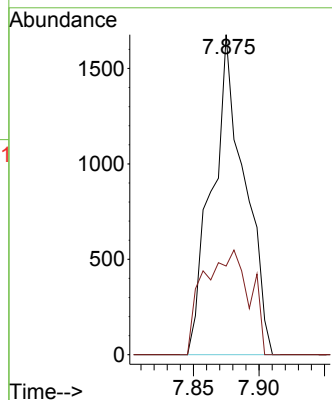
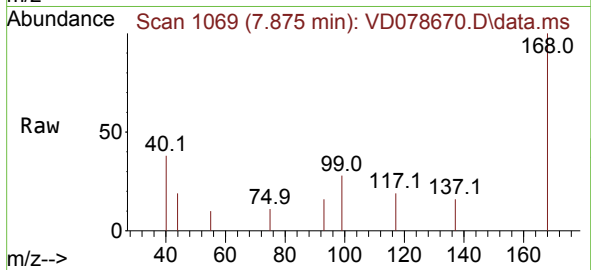




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.000 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

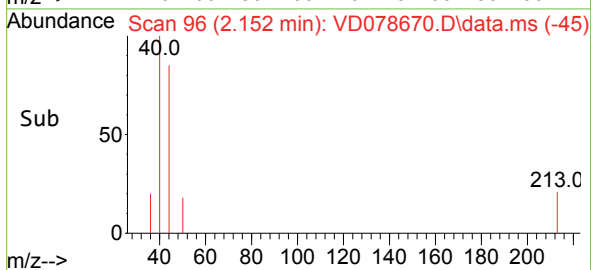
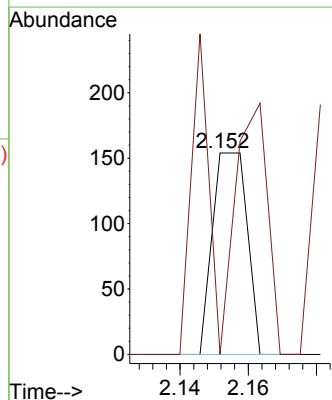
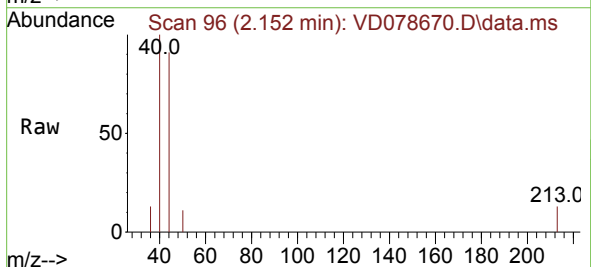
Instrument :
MSVOA_D
ClientSampleId :
RT-3488

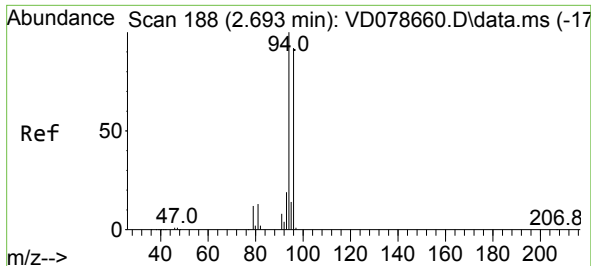
Tgt Ion:168 Resp: 2893
Ion Ratio Lower Upper
168 100
99 27.7 38.8 58.2#



#3
Chloromethane
Concen: 2.564 ug/l
RT: 2.152 min Scan# 96
Delta R.T. -0.000 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

Tgt Ion: 50 Resp: 109
Ion Ratio Lower Upper
50 100
52 0.0 25.6 38.4#





#5

Bromomethane

Concen: 2.848 ug/l

RT: 2.705 min Scan# 19

Delta R.T. 0.012 min

Lab File: VD078670.D

Acq: 14 Mar 2024 16:50

Instrument :

MSVOA_D

ClientSampleId :

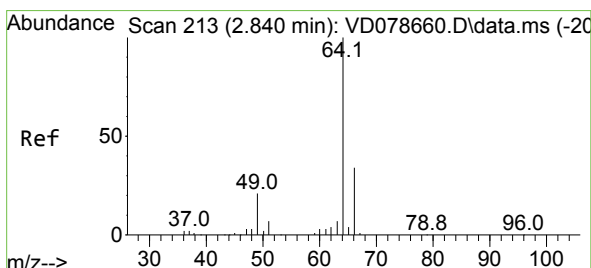
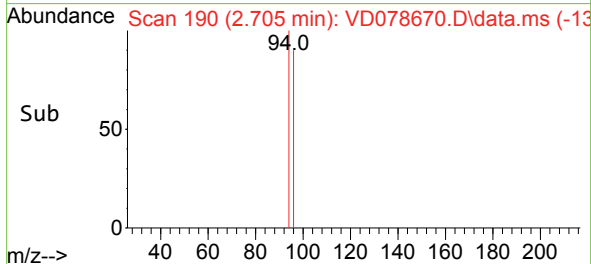
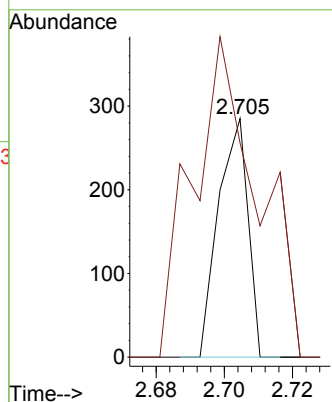
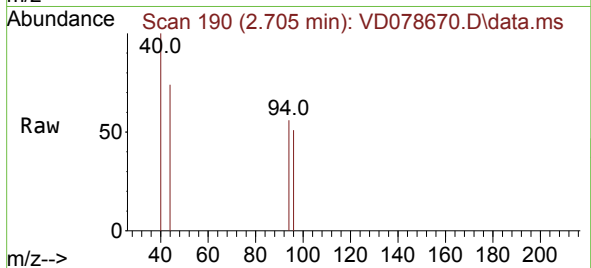
RT-3488

Tgt Ion: 94 Resp: 171

Ion Ratio Lower Upper

94 100

96 295.9 73.5 110.3#



#6

Chloroethane

Concen: 1.697 ug/l

RT: 2.905 min Scan# 224

Delta R.T. 0.065 min

Lab File: VD078670.D

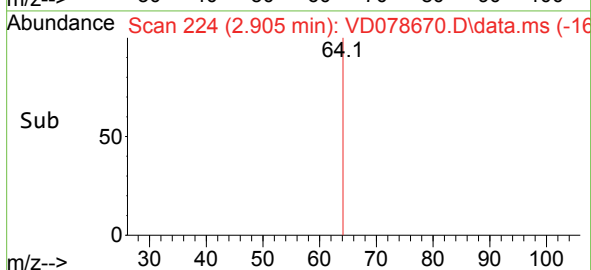
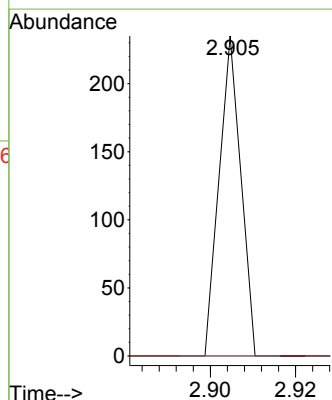
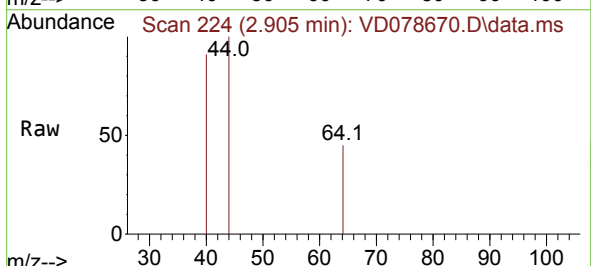
Acq: 14 Mar 2024 16:50

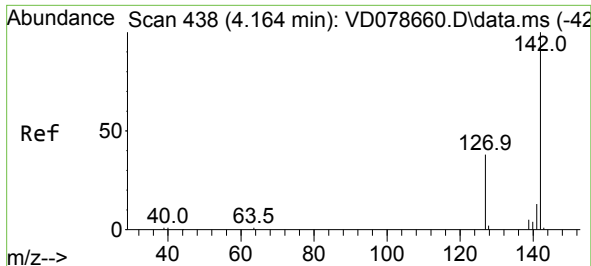
Tgt Ion: 64 Resp: 83

Ion Ratio Lower Upper

64 100

66 0.0 26.8 40.2#

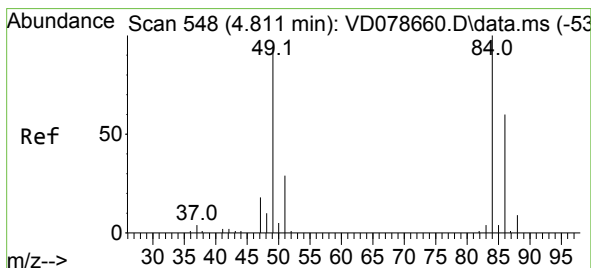
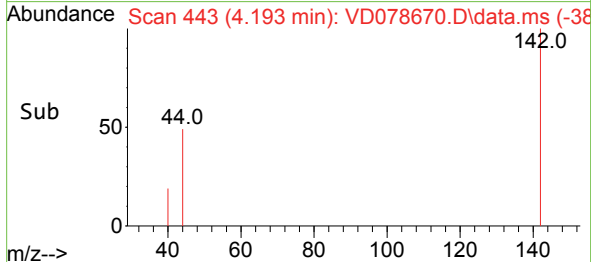
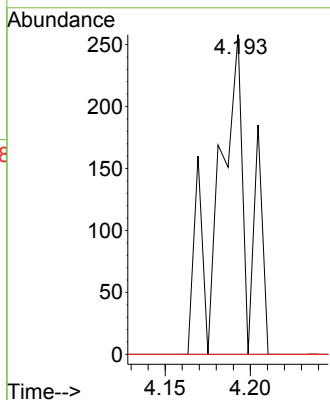
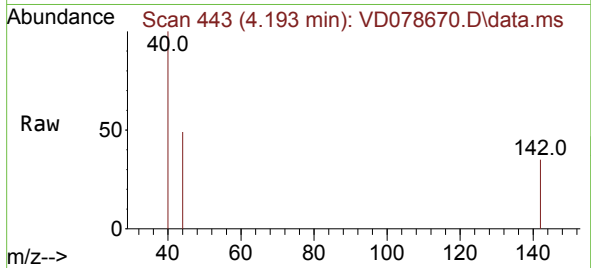




#10
Methyl Iodide
Concen: 8.851 ug/l
RT: 4.193 min Scan# 443
Delta R.T. 0.029 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

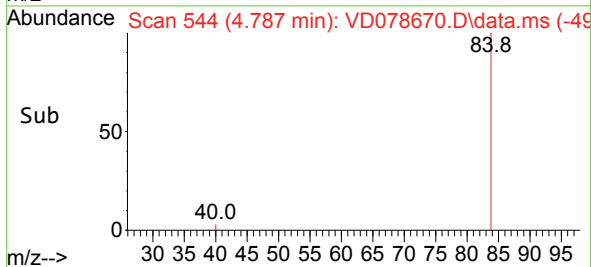
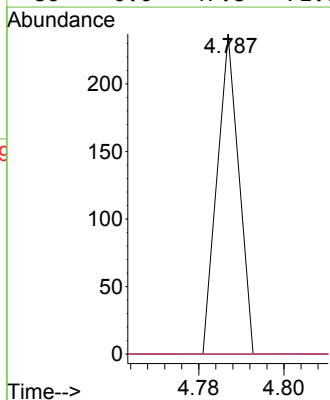
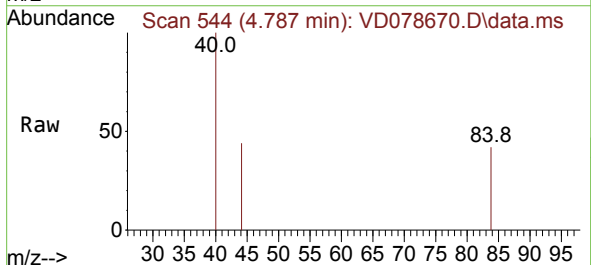
Instrument :
MSVOA_D
ClientSampleId :
RT-3488

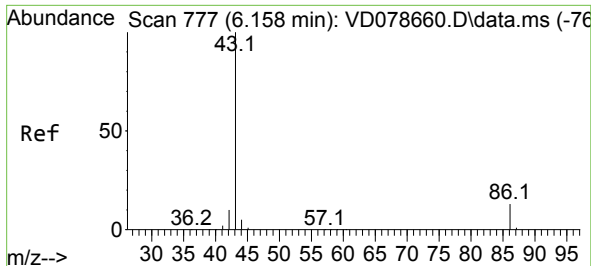
Tgt Ion:142 Resp: 326
Ion Ratio Lower Upper
142 100
127 0.0 33.5 50.3#
141 0.0 11.7 17.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.787 min Scan# 544
Delta R.T. -0.024 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

Tgt Ion: 84 Resp: 84
Ion Ratio Lower Upper
84 100
49 0.0 75.6 113.4#
51 0.0 23.4 35.0#
86 0.0 47.8 71.6#

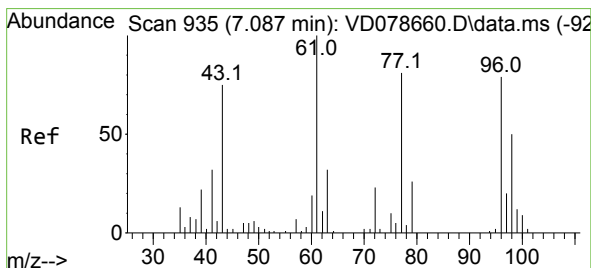
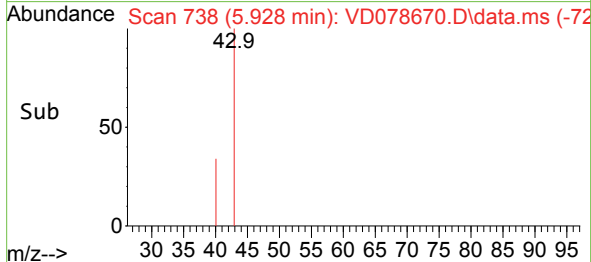
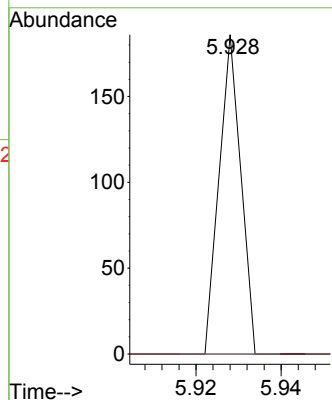
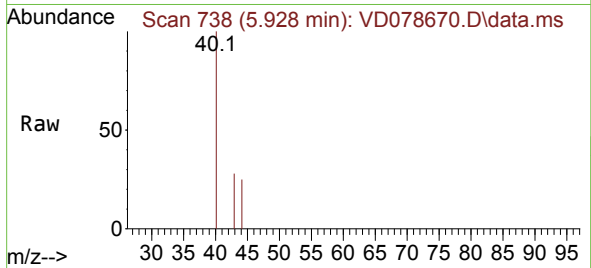




#23
 Vinyl Acetate
 Concen: 1.503 ug/l
 RT: 5.928 min Scan# 71
 Delta R.T. -0.230 min
 Lab File: VD078670.D
 Acq: 14 Mar 2024 16:50

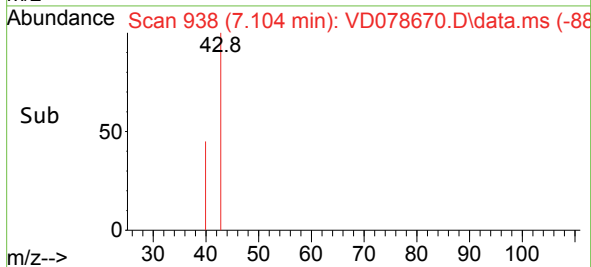
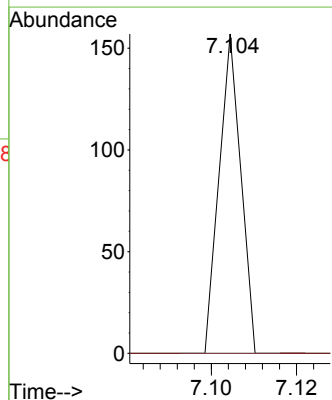
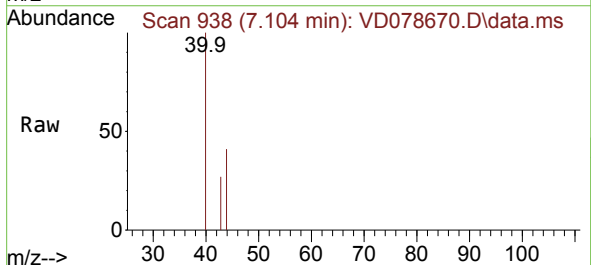
Instrument :
 MSVOA_D
 ClientSampleId :
 RT-3488

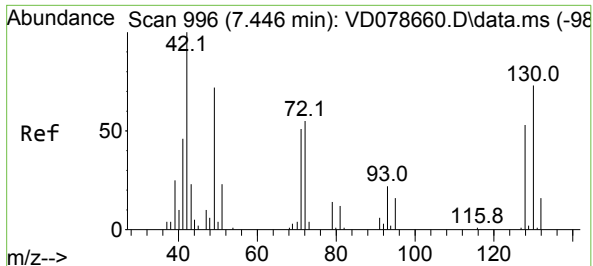
Tgt Ion: 43 Resp: 66
 Ion Ratio Lower Upper
 43 100
 86 0.0 10.7 16.1#



#25
 2-Butanone
 Concen: 7.891 ug/l
 RT: 7.104 min Scan# 938
 Delta R.T. 0.017 min
 Lab File: VD078670.D
 Acq: 14 Mar 2024 16:50

Tgt Ion: 43 Resp: 55
 Ion Ratio Lower Upper
 43 100
 72 0.0 25.0 37.6#





#29

Tetrahydrofuran

Concen: 17.409 ug/l

RT: 7.646 min Scan# 1030

Delta R.T. 0.200 min

Lab File: VD078670.D

Acq: 14 Mar 2024 16:50

Instrument :

MSVOA_D

ClientSampleId :

RT-3488

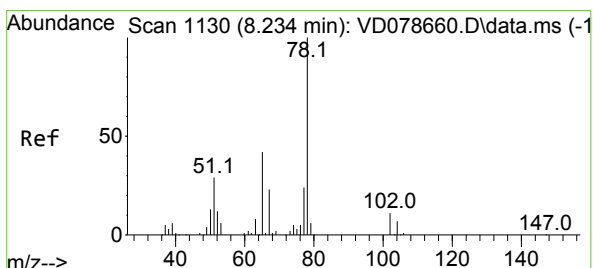
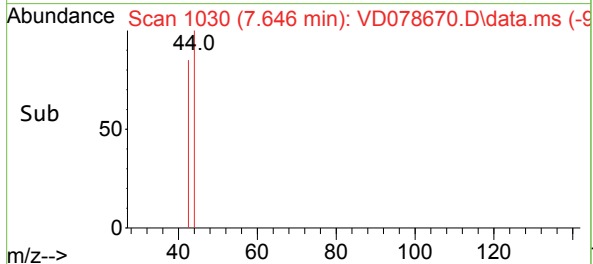
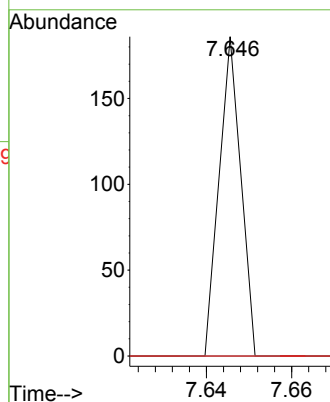
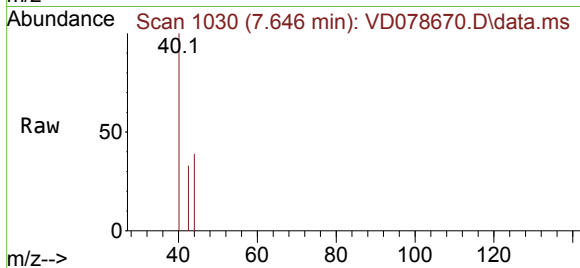
Tgt Ion: 42 Resp: 66

Ion Ratio Lower Upper

42 100

72 0.0 43.8 65.6#

71 0.0 42.0 63.0#



#33

1,2-Dichloroethane-d4

Concen: 110.061 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VD078670.D

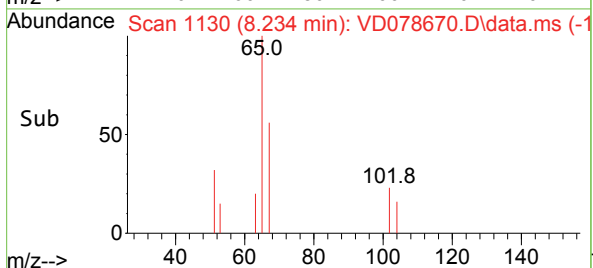
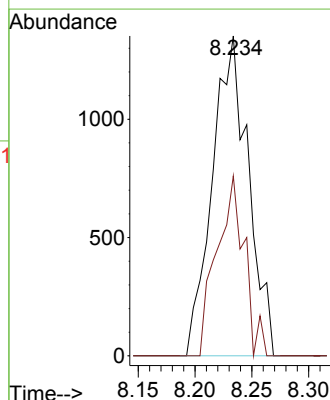
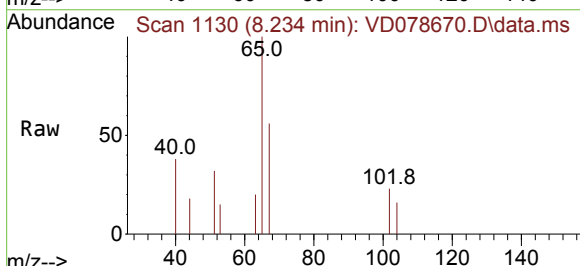
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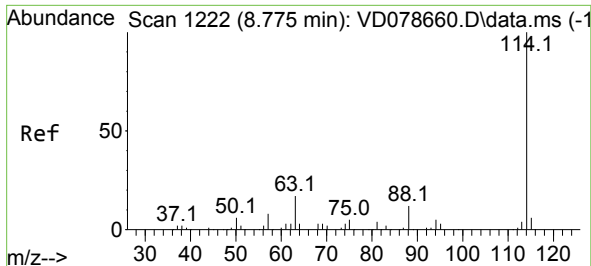
Tgt Ion: 65 Resp: 2984

Ion Ratio Lower Upper

65 100

67 43.0 0.0 110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD078670.D

Acq: 14 Mar 2024 16:50

Instrument :

MSVOA_D

ClientSampleId :

RT-3488

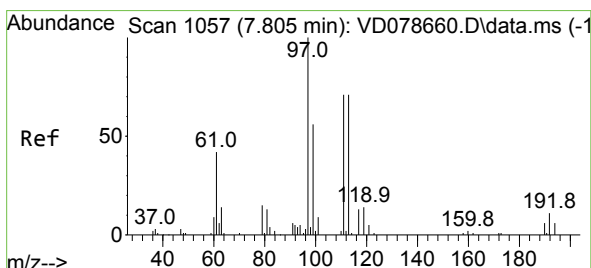
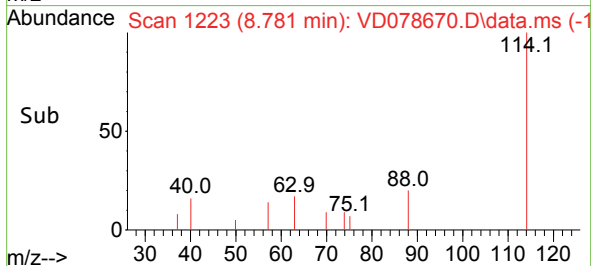
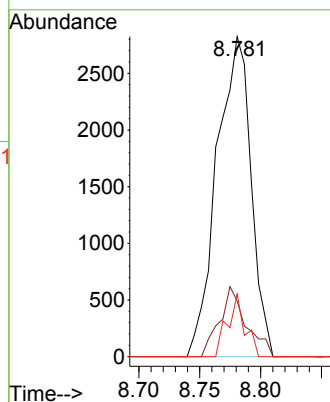
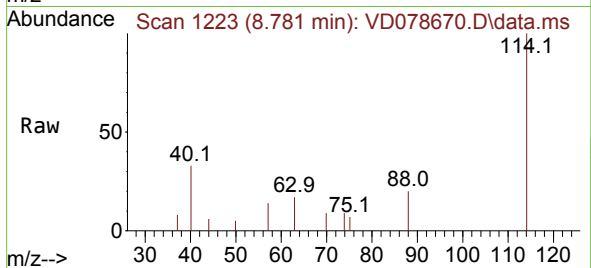
Tgt Ion:114 Resp: 5504

Ion Ratio Lower Upper

114 100

63 17.4 0.0 33.4

88 19.6 0.0 24.6



#35

Dibromofluoromethane

Concen: 70.632 ug/l

RT: 7.798 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VD078670.D

Acq: 14 Mar 2024 16:50

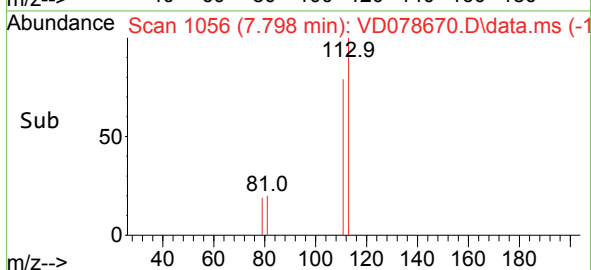
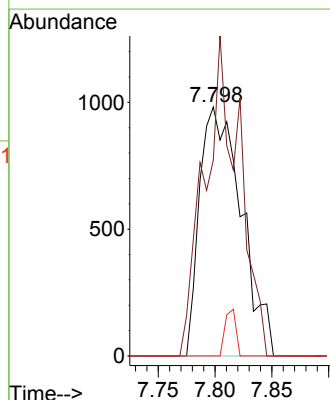
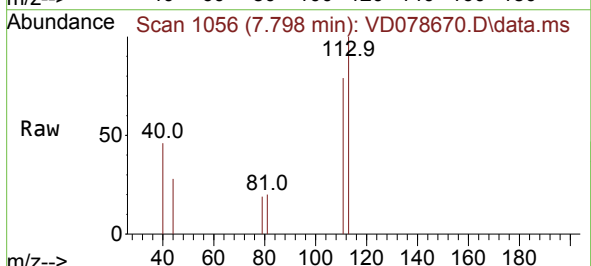
Tgt Ion:113 Resp: 2503

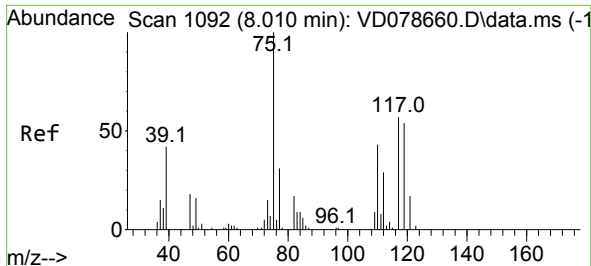
Ion Ratio Lower Upper

113 100

111 107.2 81.9 122.9

192 4.9 15.4 23.0#





#36

1,1-Dichloropropene

Concen: 1.284 ug/l

RT: 7.875 min Scan# 1092

Delta R.T. -0.135 min

Lab File: VD078670.D

Acq: 14 Mar 2024 16:50

Instrument :

MSVOA_D

ClientSampleId :

RT-3488

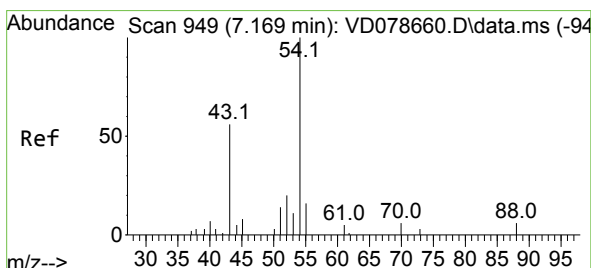
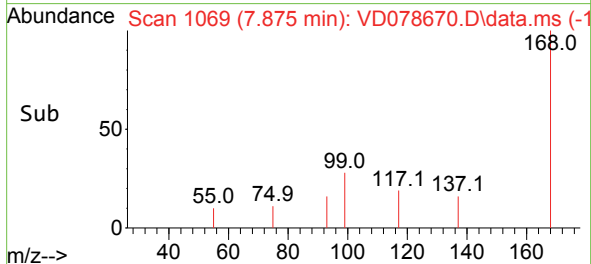
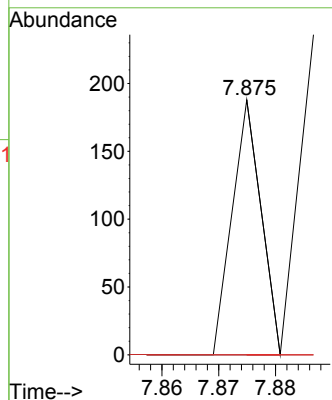
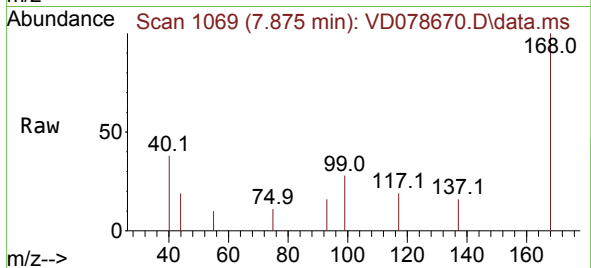
Tgt Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.1#

77 0.0 25.4 38.2#



#37

Ethyl Acetate

Concen: 3.274 ug/l

RT: 7.104 min Scan# 938

Delta R.T. -0.065 min

Lab File: VD078670.D

Acq: 14 Mar 2024 16:50

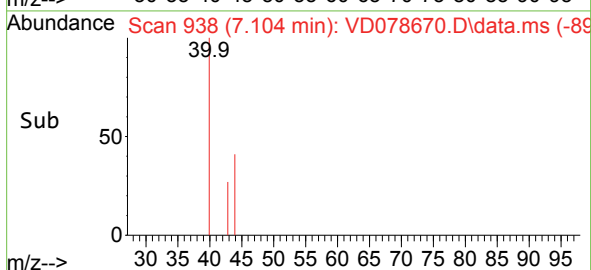
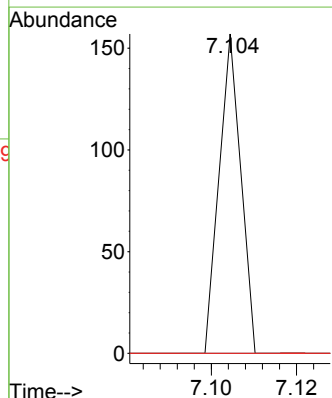
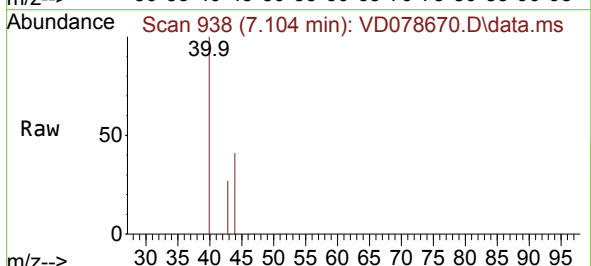
Tgt Ion: 43 Resp: 55

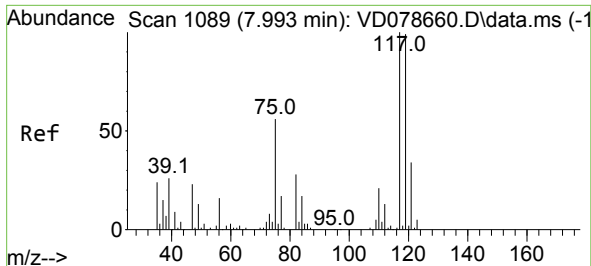
Ion Ratio Lower Upper

43 100

61 0.0 14.6 21.8#

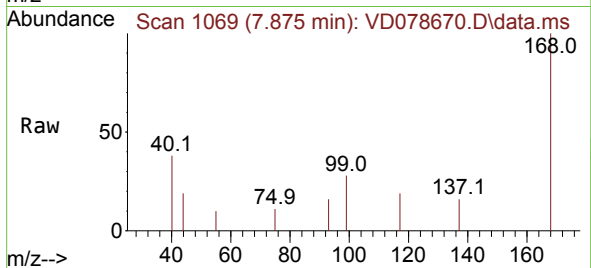
70 0.0 9.4 14.0#



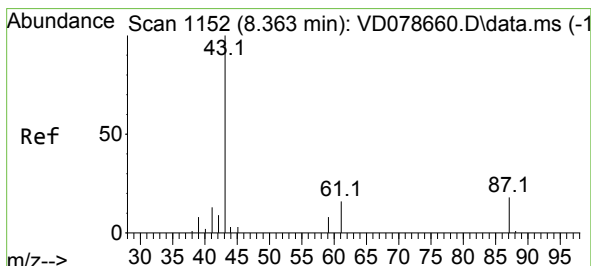
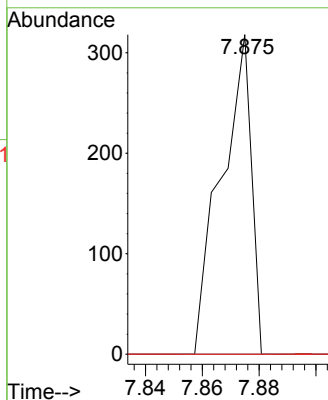
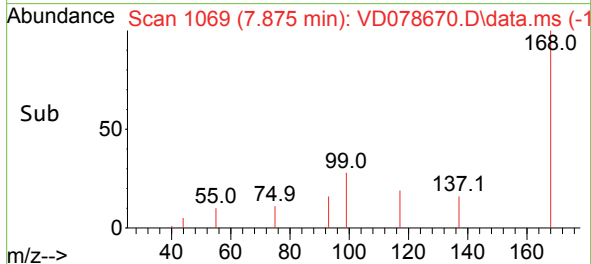


#38
Carbon Tetrachloride
Concen: 4.317 ug/l
RT: 7.875 min Scan# 1089
Delta R.T. -0.118 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

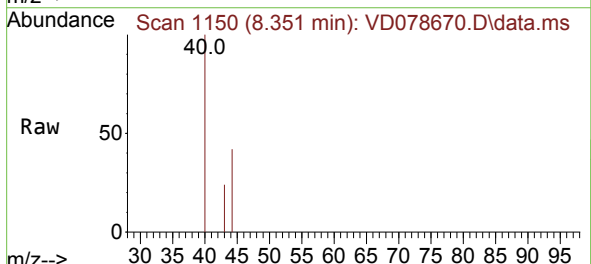
Instrument : MSVOA_D
ClientSampleId : RT-3488



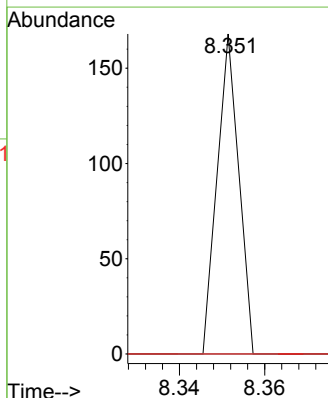
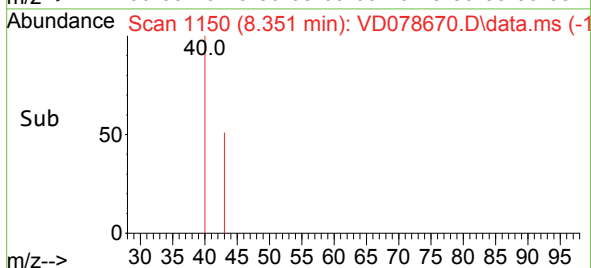
Tgt Ion:117 Resp: 234
Ion Ratio Lower Upper
117 100
119 0.0 79.2 118.8#
121 0.0 26.8 40.2#

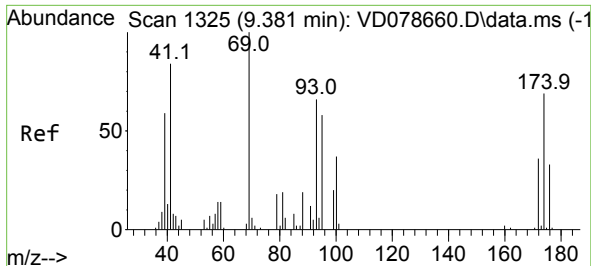


#43
Isopropyl Acetate
Concen: 1.931 ug/l
RT: 8.351 min Scan# 1150
Delta R.T. -0.012 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50



Tgt Ion: 43 Resp: 59
Ion Ratio Lower Upper
43 100
61 0.0 30.1 45.1#
87 0.0 14.4 21.6#





#48

Methyl methacrylate

Concen: 4.501 ug/l

RT: 9.428 min Scan# 1333

Delta R.T. 0.047 min

Lab File: VD078670.D

Acq: 14 Mar 2024 16:50

Instrument :

MSVOA_D

ClientSampleId :

RT-3488

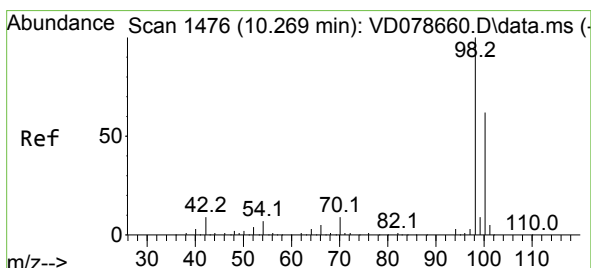
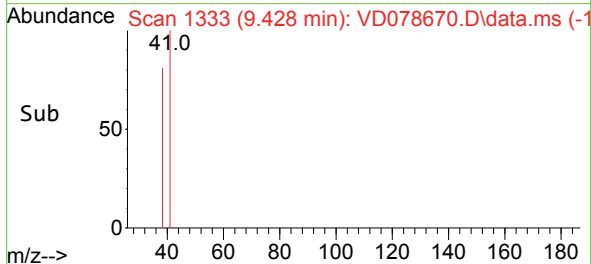
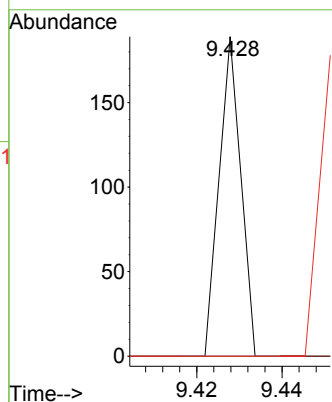
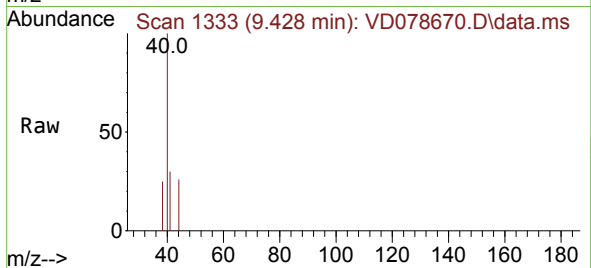
Tgt Ion: 41 Resp: 67

Ion Ratio Lower Upper

41 100

69 0.0 88.3 132.5#

39 0.0 46.6 69.8#



#50

Toluene-d8

Concen: 49.951 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VD078670.D

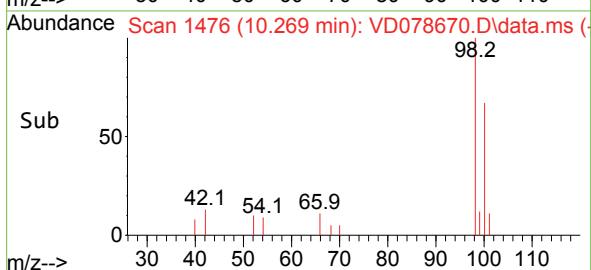
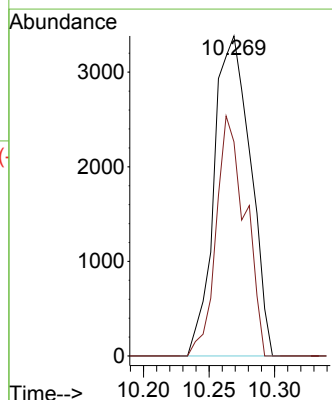
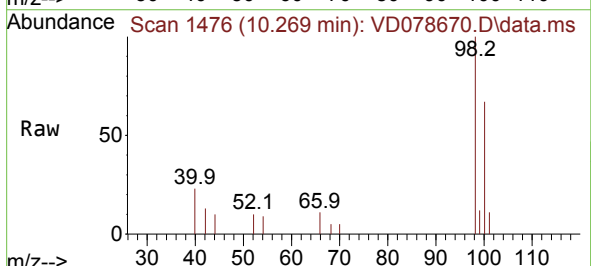
Acq: 14 Mar 2024 16:50

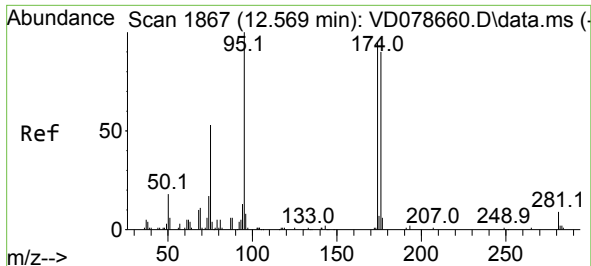
Tgt Ion: 98 Resp: 6510

Ion Ratio Lower Upper

98 100

100 60.5 50.5 75.7

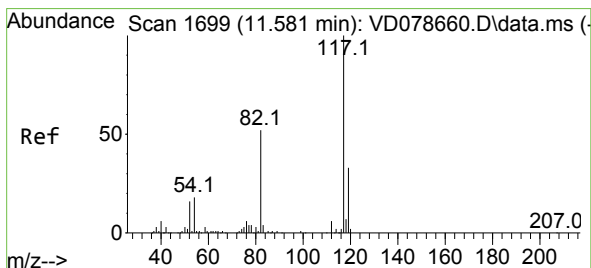
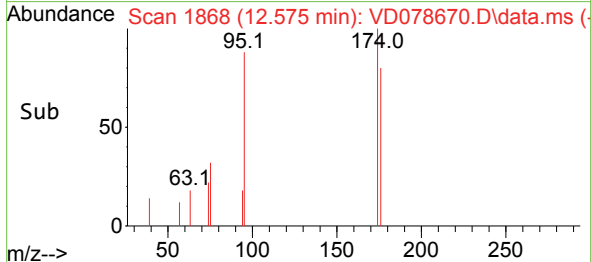
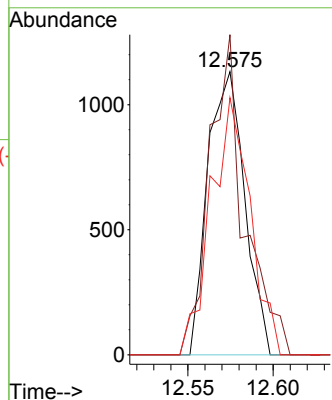
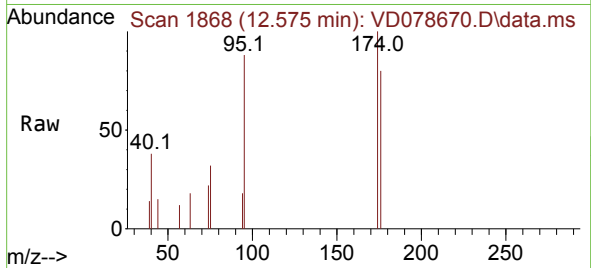




#62
4-Bromofluorobenzene
Concen: 44.718 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

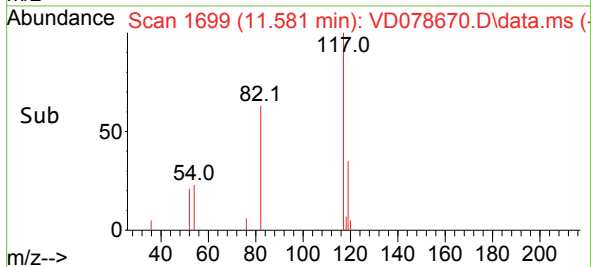
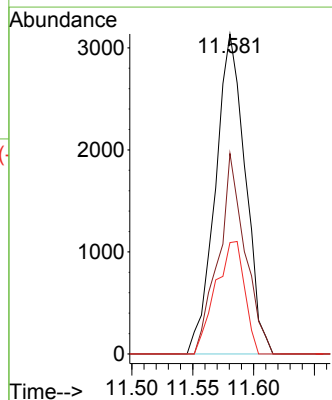
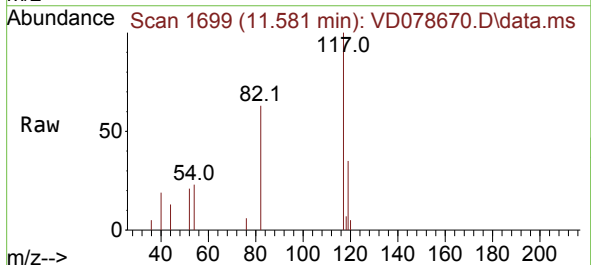
Instrument :
MSVOA_D
ClientSampleId :
RT-3488

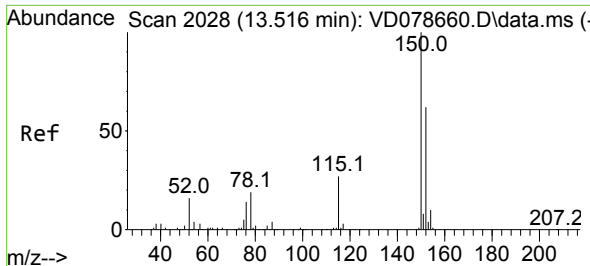
Tgt Ion: 95 Resp: 1705
Ion Ratio Lower Upper
95 100
174 106.6 0.0 195.2
176 96.1 0.0 188.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

Tgt Ion: 117 Resp: 5369
Ion Ratio Lower Upper
117 100
82 62.6 41.4 62.2#
119 34.8 26.5 39.7

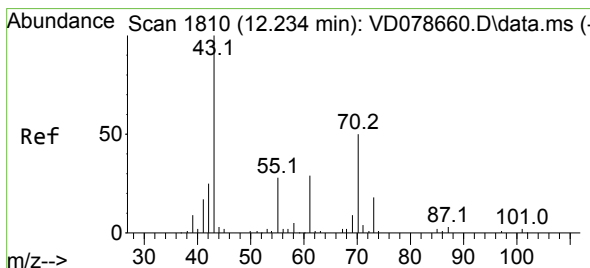
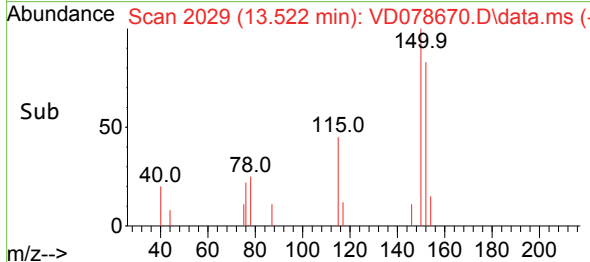
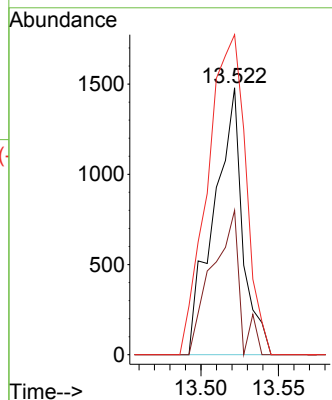
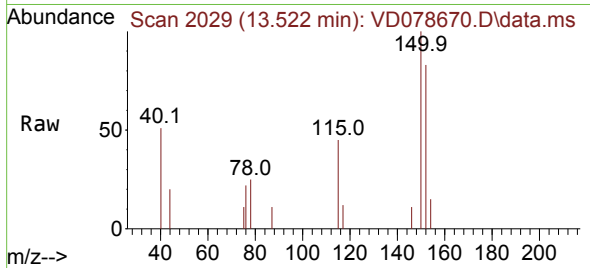




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.522 min Scan# 20
Delta R.T. 0.006 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

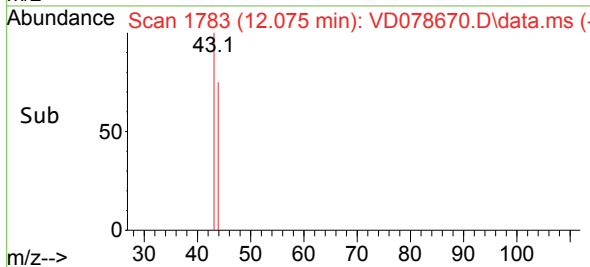
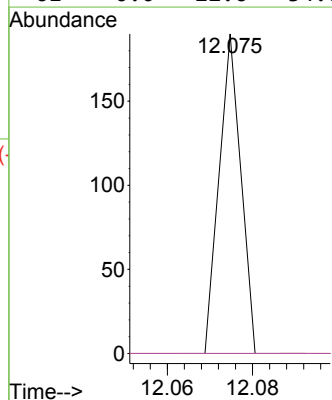
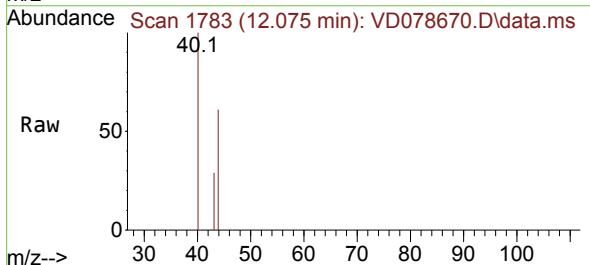
Instrument :
MSVOA_D
ClientSampleId :
RT-3488

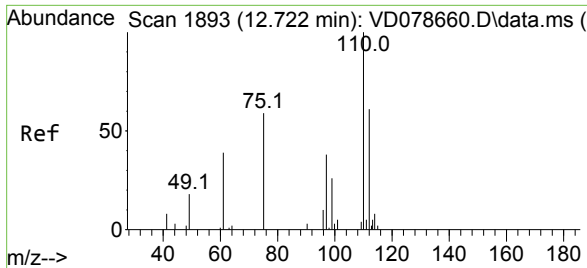
Tgt Ion:152 Resp: 1918
Ion Ratio Lower Upper
152 100
115 52.0 27.1 81.2
150 158.3 0.0 350.2



#74
N-amy1 acetate
Concen: 3.268 ug/l
RT: 12.075 min Scan# 1783
Delta R.T. -0.159 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

Tgt Ion: 43 Resp: 67
Ion Ratio Lower Upper
43 100
70 0.0 42.1 63.1#
55 0.0 22.6 33.8#
61 0.0 22.6 34.0#

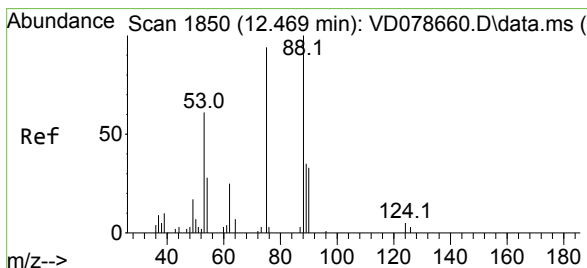
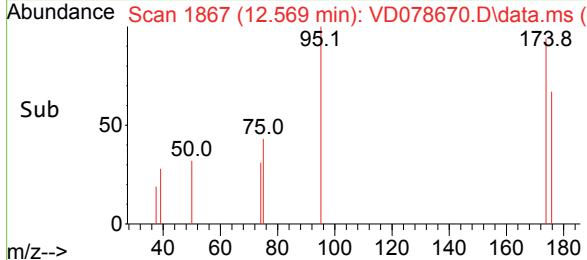
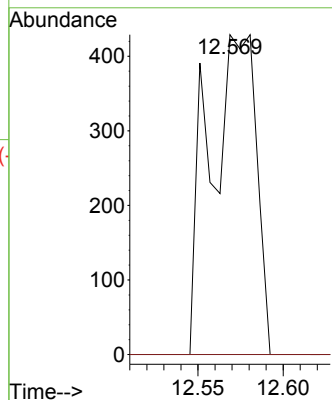
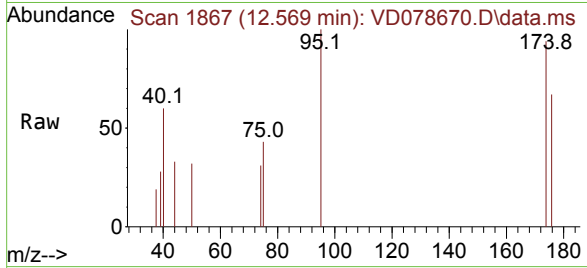




#76
1,2,3-Trichloropropane
Concen: 55.086 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.153 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

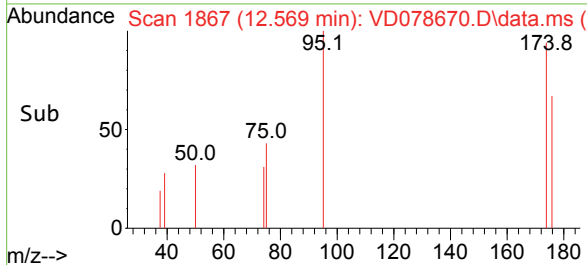
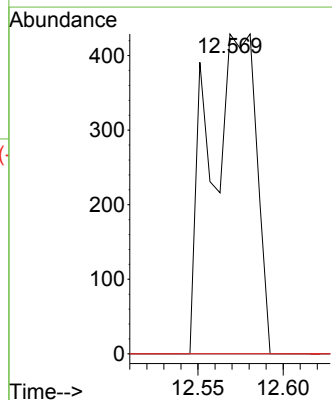
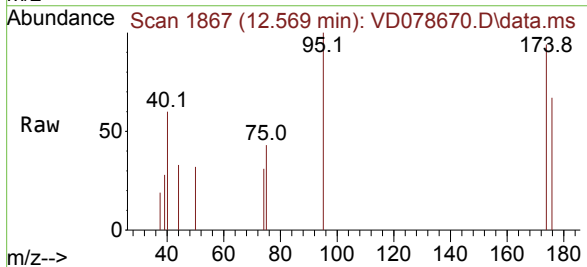
Instrument :
MSVOA_D
ClientSampleId :
RT-3488

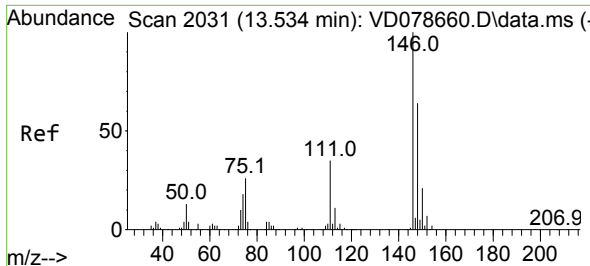
Tgt Ion: 75 Resp: 814
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 115.468 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.100 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

Tgt Ion: 75 Resp: 814
Ion Ratio Lower Upper
75 100
53 0.0 61.0 91.6#
89 0.0 35.4 53.0#

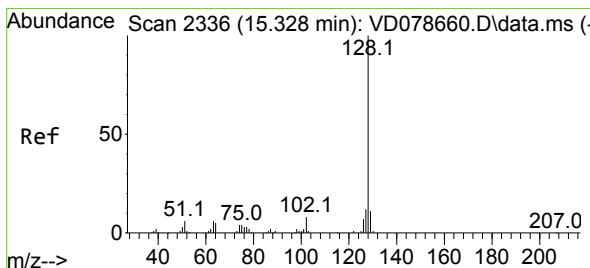
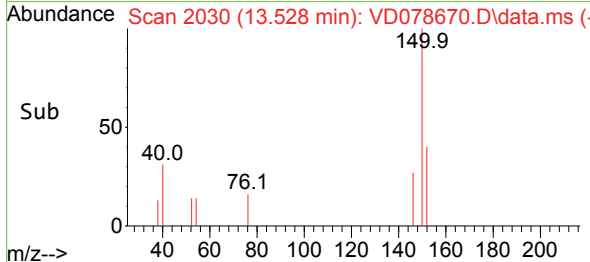
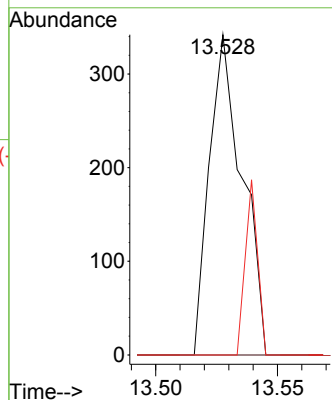
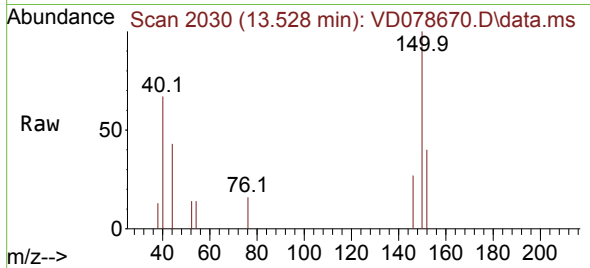




#88
1,4-Dichlorobenzene
Concen: 4.928 ug/l
RT: 13.528 min Scan# 2031
Delta R.T. -0.006 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

Instrument :
MSVOA_D
ClientSampleId :
RT-3488

Tgt Ion:146 Resp: 321
Ion Ratio Lower Upper
146 100
111 0.0 17.8 53.3#
148 20.6 32.4 97.0#



#95
Naphthalene
Concen: 1.229 ug/l
RT: 15.322 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VD078670.D
Acq: 14 Mar 2024 16:50

Tgt Ion:128 Resp: 71
Ion Ratio Lower Upper
128 100
127 0.0 9.3 13.9#
129 0.0 8.9 13.3#

