

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122923\
 Data File : VD078103.D
 Acq On : 29 Dec 2023 12:54
 Operator : RP/MD
 Sample : 06033-01RE
 Misc : 5.08G/5.0ml/MSVOA_D/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-05-122723RE

Quant Time: Dec 29 22:34:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122623S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 27 03:40:16 2023
 Response via : Initial Calibration

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

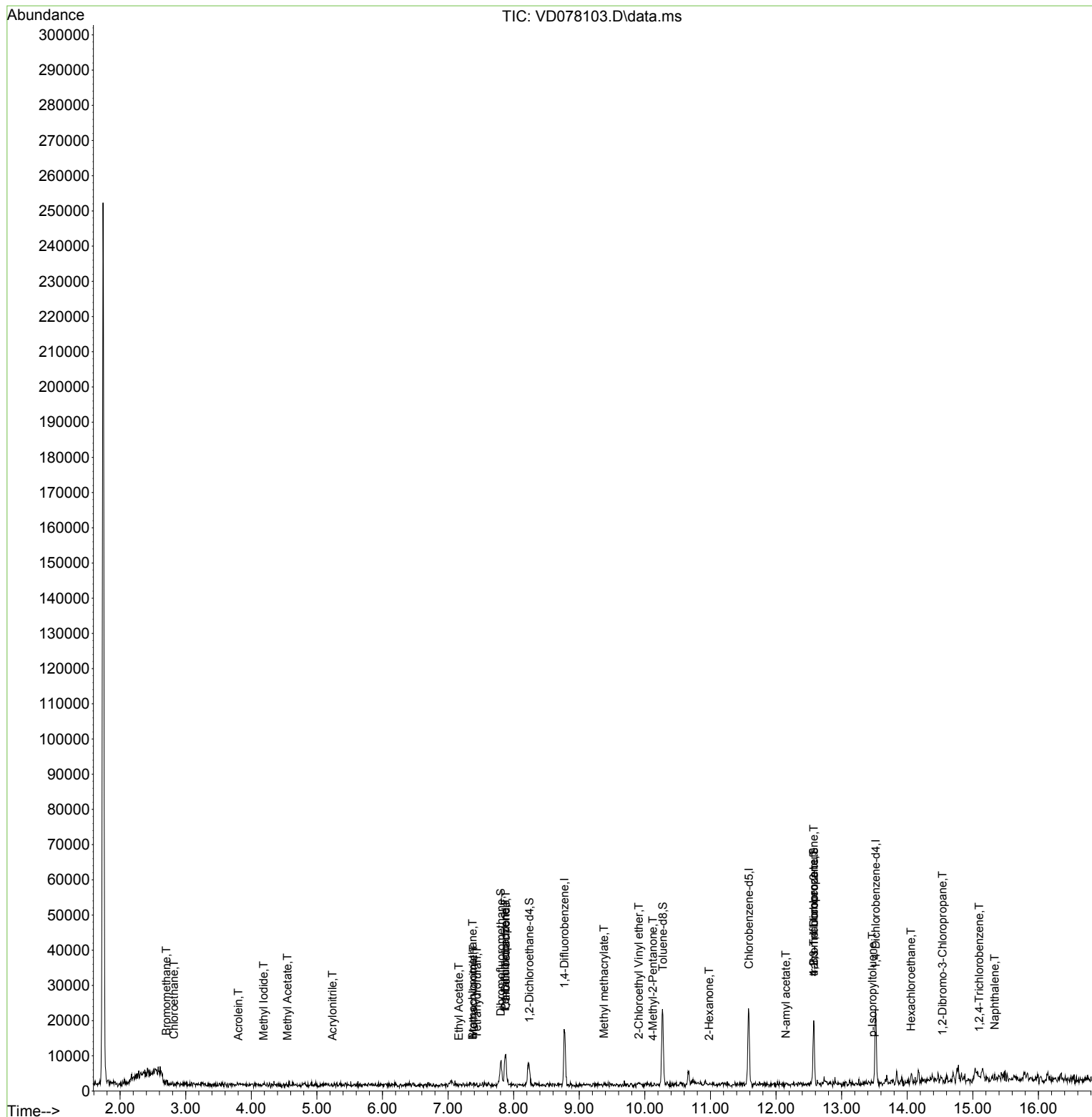
Internal Standards						
1) Pentafluorobenzene	7.869	168	7595	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.775	114	13407	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.586	117	13502	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	6584	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.239	65	4909	72.642	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 145.280%			
35) Dibromofluoromethane	7.804	113	4893	56.721	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 113.440%			
50) Toluene-d8	10.275	98	15936	52.501	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.000%			
62) 4-Bromofluorobenzene	12.574	95	4784	48.983	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.960%			
Target Compounds					Qvalue	
5) Bromomethane	2.704	94	256	2.360	ug/l #	37
6) Chloroethane	2.822	64	200	2.011	ug/l #	43
10) Methyl Iodide	4.187	142	248	3.254	ug/l #	79
11) Tert butyl alcohol	4.887	59	54	Below Cal	#	73
13) Acrolein	3.804	56	66	18.543	ug/l #	15
15) Acrylonitrile	5.240	53	79	5.288	ug/l #	17
16) Acetone	4.004	43	247	Below Cal	#	32
18) Methyl Acetate	4.551	43	66	1.192	ug/l #	42
25) 2-Butanone	7.081	43	71	Below Cal	#	37
28) Bromochloromethane	7.375	49	68	1.325	ug/l #	1
29) Tetrahydrofuran	7.439	42	82	7.838	ug/l #	23
36) 1,1-Dichloropropene	7.875	75	394	3.246	ug/l #	39
37) Ethyl Acetate	7.163	43	90	2.229	ug/l #	10
38) Carbon Tetrachloride	7.881	117	561	4.265	ug/l #	11
41) Methacrylonitrile	7.387	41	58	2.271	ug/l #	1
48) Methyl methacrylate	9.375	41	55	1.208	ug/l #	1
51) 4-Methyl-2-Pentanone	10.122	43	56	1.350	ug/l #	28
58) 2-Chloroethyl Vinyl ether	9.910	63	63	2.624	ug/l #	43
59) 2-Hexanone	10.980	43	75	2.328	ug/l	74
74) N-amyl acetate	12.151	43	100	1.328	ug/l #	35
76) 1,2,3-Trichloropropane	12.574	75	2824	50.840	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.574	75	2824	109.548	ug/l #	17
86) p-Isopropyltoluene	13.469	119	543	1.265	ug/l #	61
90) Hexachloroethane	14.057	117	151	1.759	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.539	75	67	5.804	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.098	180	148	1.156	ug/l #	1
95) Naphthalene	15.333	128	999	4.585	ug/l #	69

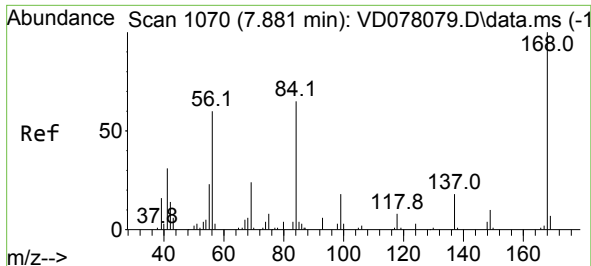
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration

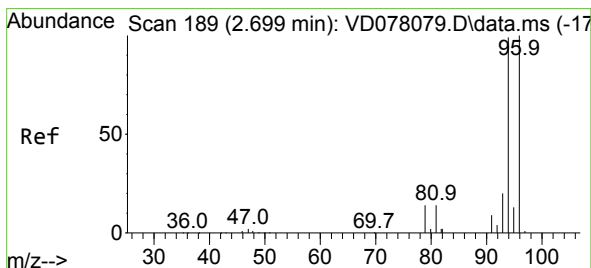
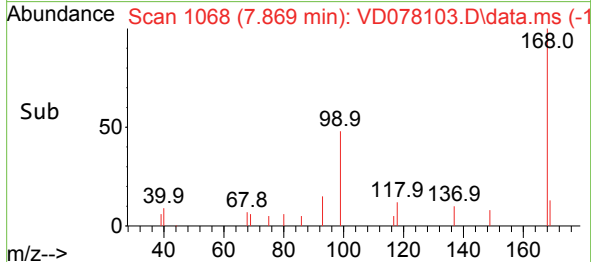
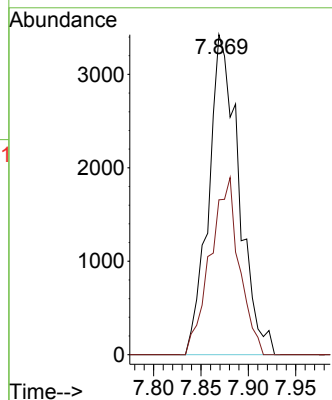
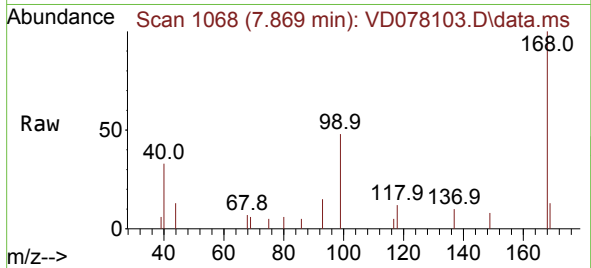




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.869 min Scan# 10
Delta R.T. -0.012 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

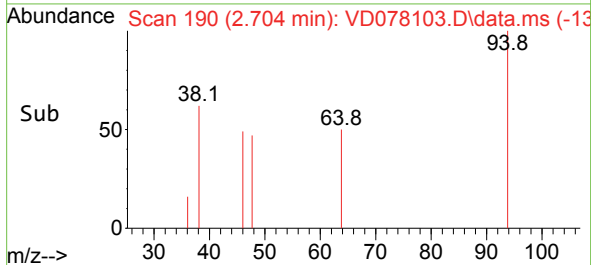
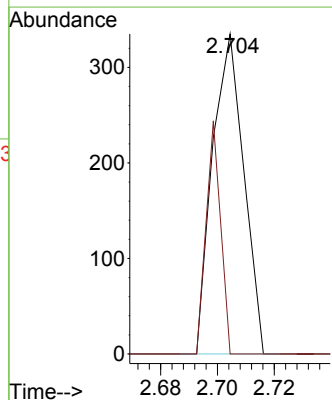
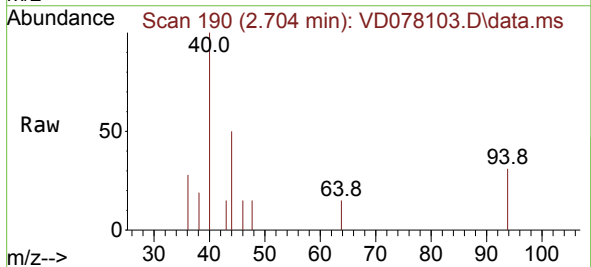
Instrument :
MSVOA_D
ClientSampleId :
OR-05-122723RE

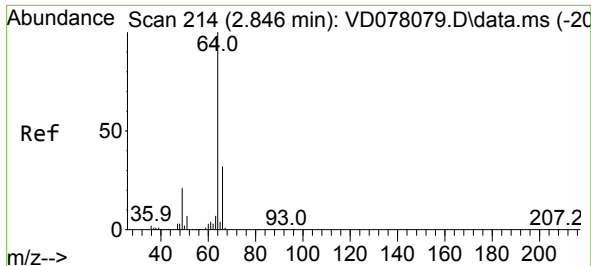
Tgt Ion:168 Resp: 7595
Ion Ratio Lower Upper
168 100
99 48.4 36.7 55.1



#5
Bromomethane
Concen: 2.360 ug/l
RT: 2.704 min Scan# 190
Delta R.T. 0.006 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

Tgt Ion: 94 Resp: 256
Ion Ratio Lower Upper
94 100
96 33.6 75.8 113.8#

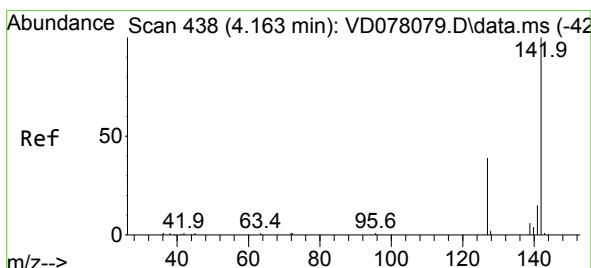
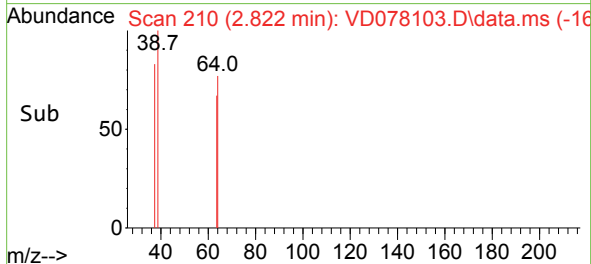
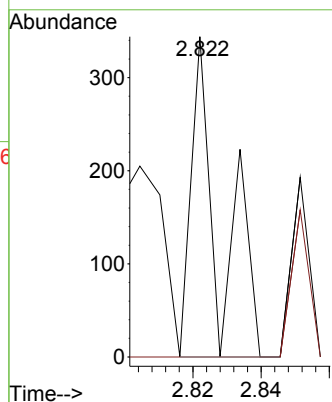
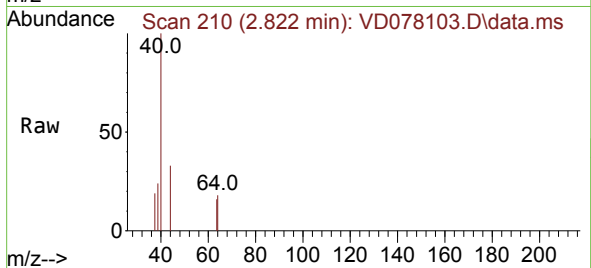




#6
Chloroethane
Concen: 2.011 ug/l
RT: 2.822 min Scan# 214
Delta R.T. -0.024 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

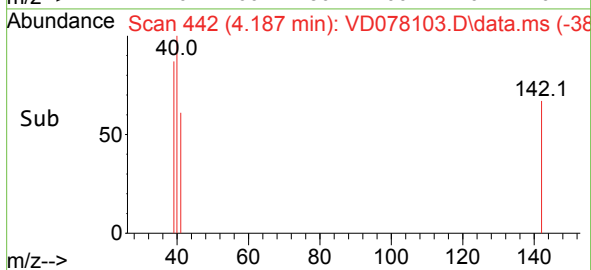
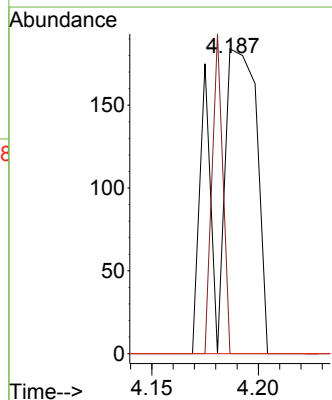
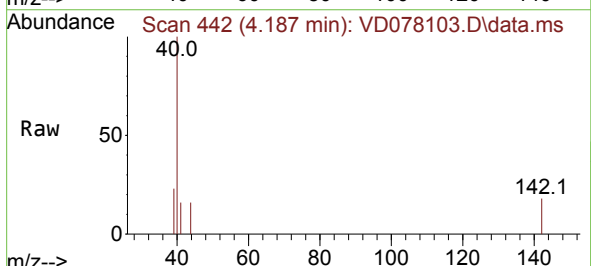
Instrument :
MSVOA_D
ClientSampleId :
OR-05-122723RE

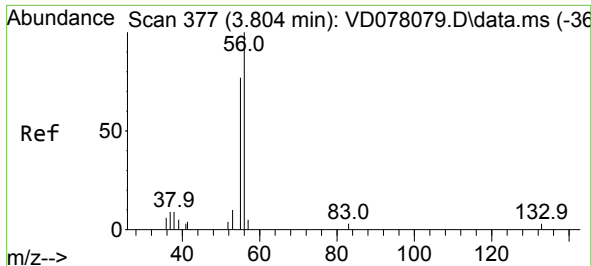
Tgt Ion: 64 Resp: 200
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#



#10
Methyl Iodide
Concen: 3.254 ug/l
RT: 4.187 min Scan# 442
Delta R.T. 0.023 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

Tgt Ion: 142 Resp: 248
Ion Ratio Lower Upper
142 100
127 27.4 29.4 44.0#
141 0.0 11.1 16.7#

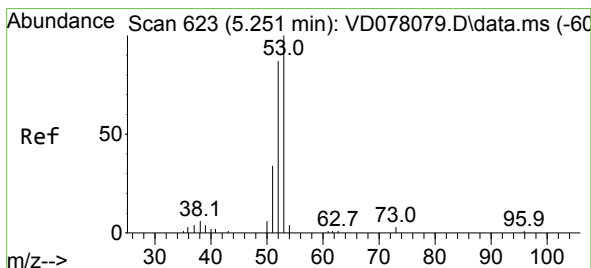
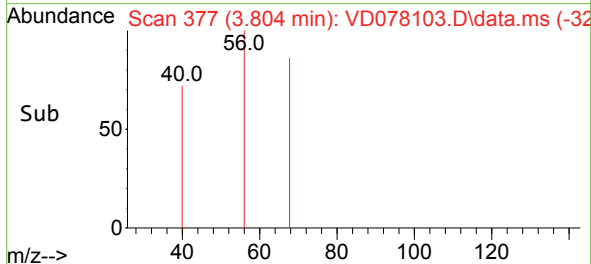
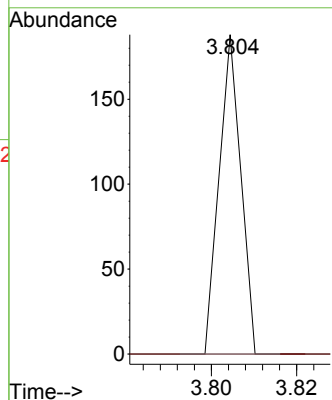
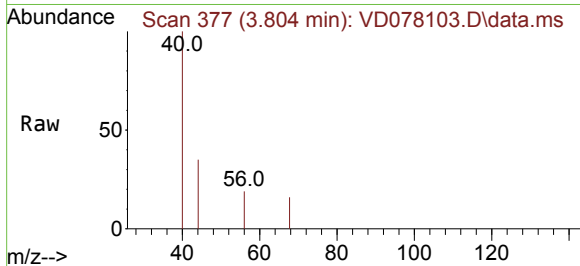




#13
Acrolein
Concen: 18.543 ug/l
RT: 3.804 min Scan# 31
Delta R.T. 0.000 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

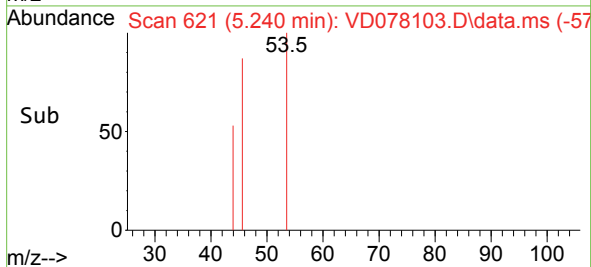
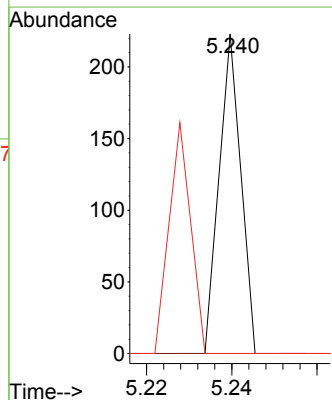
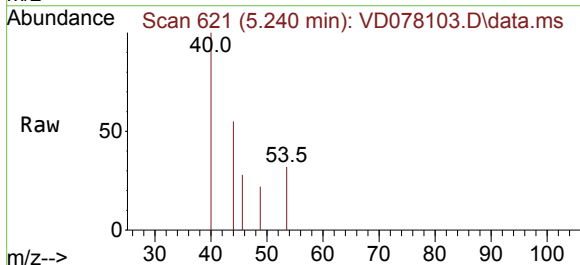
Instrument :
MSVOA_D
ClientSampleId :
OR-05-122723RE

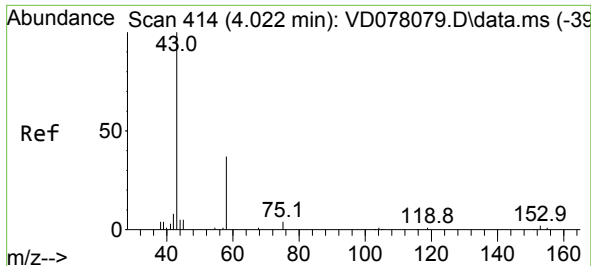
Tgt Ion: 56 Resp: 66
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#



#15
Acrylonitrile
Concen: 5.288 ug/l
RT: 5.240 min Scan# 621
Delta R.T. -0.012 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

Tgt Ion: 53 Resp: 79
Ion Ratio Lower Upper
53 100
52 0.0 65.0 97.4#
51 72.2 28.3 42.5#

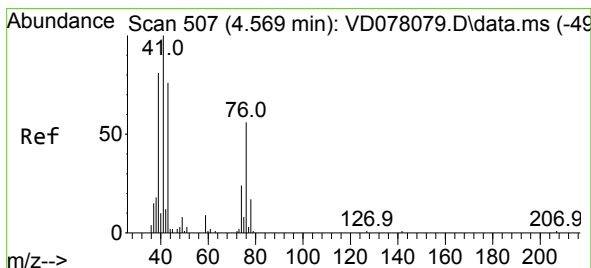
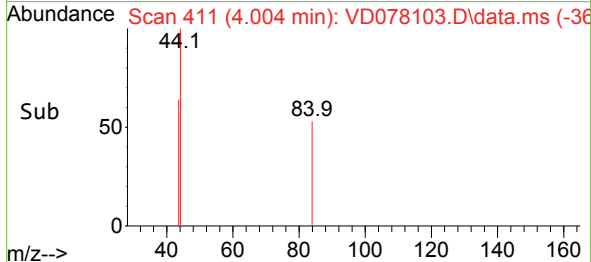
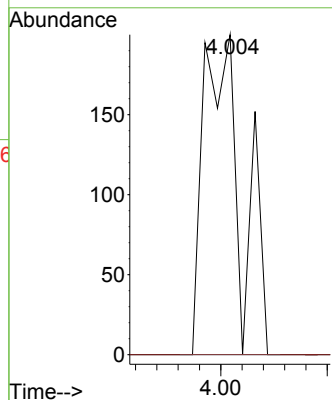
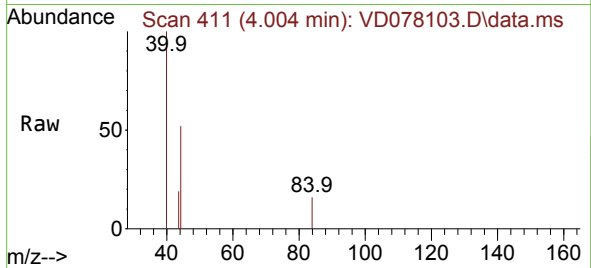




#16
Acetone
Concen: Below Cal
RT: 4.004 min Scan# 411
Delta R.T. -0.018 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

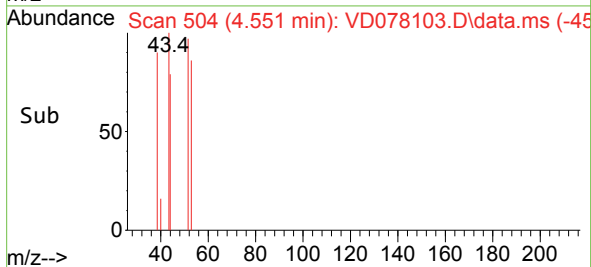
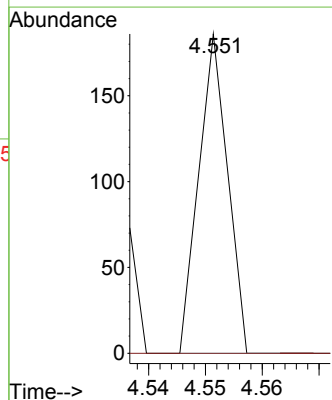
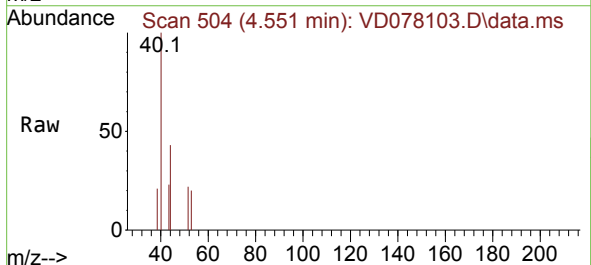
Instrument :
MSVOA_D
ClientSampleId :
OR-05-122723RE

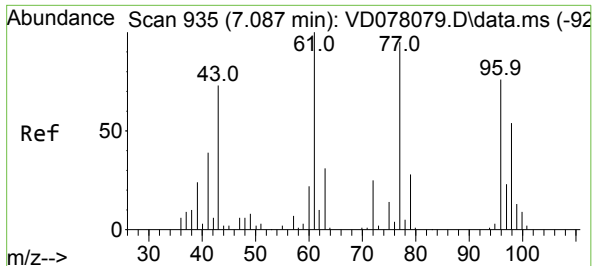
Tgt Ion: 43 Resp: 247
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#



#18
Methyl Acetate
Concen: 1.192 ug/l
RT: 4.551 min Scan# 504
Delta R.T. -0.018 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#

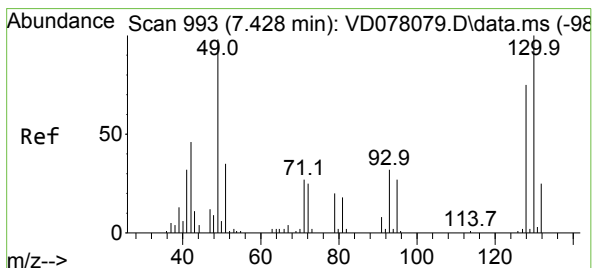
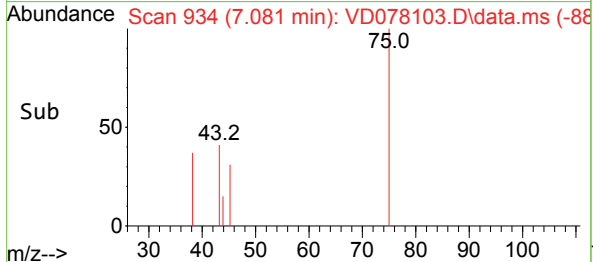
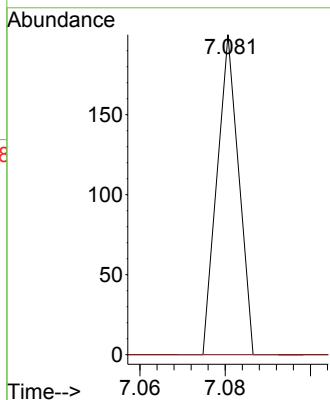
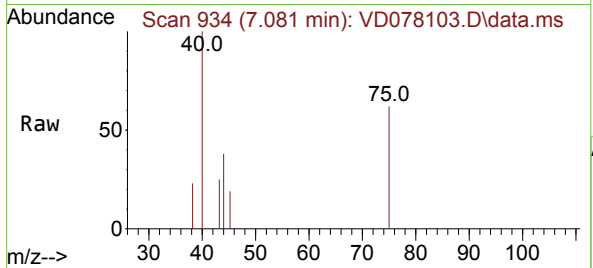




#25
2-Butanone
Concen: Below Cal
RT: 7.081 min Scan# 91
Delta R.T. -0.006 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

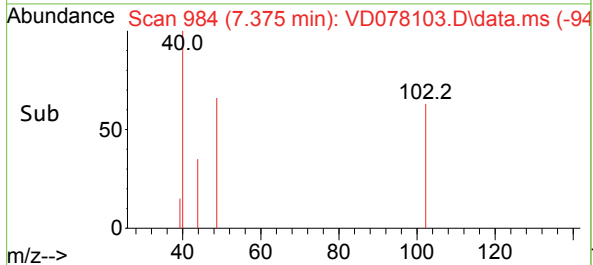
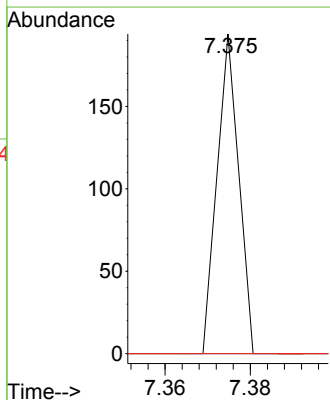
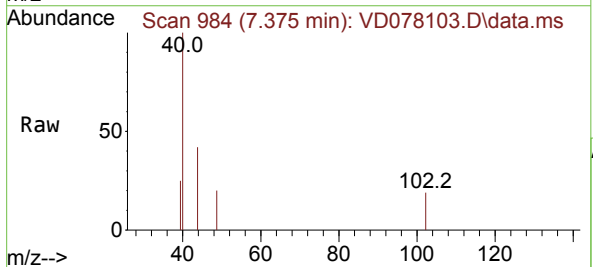
Instrument :
MSVOA_D
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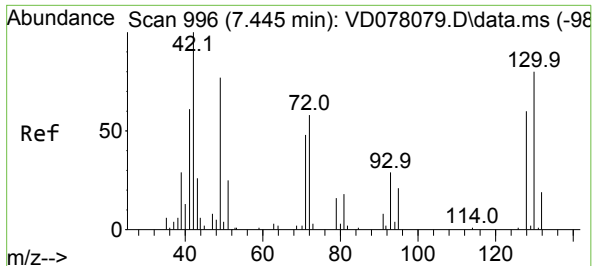
Tgt Ion: 43 Resp: 71
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



#28
Bromochloromethane
Concen: 1.325 ug/l
RT: 7.375 min Scan# 984
Delta R.T. -0.053 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

Tgt Ion: 49 Resp: 68
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.0
130 0.0 83.2 124.8#





#29

Tetrahydrofuran

Concen: 7.838 ug/l

RT: 7.439 min Scan# 995

Delta R.T. -0.006 min

Lab File: VD078103.D

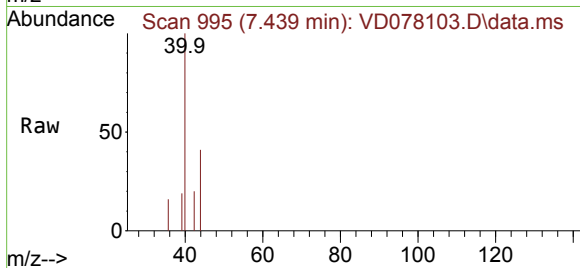
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Instrument :

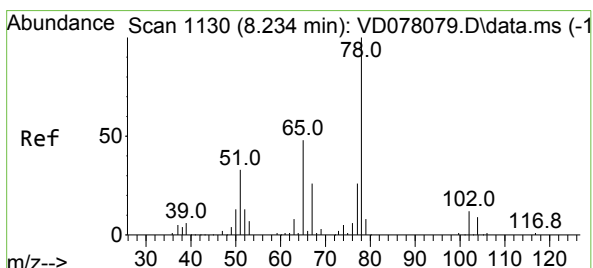
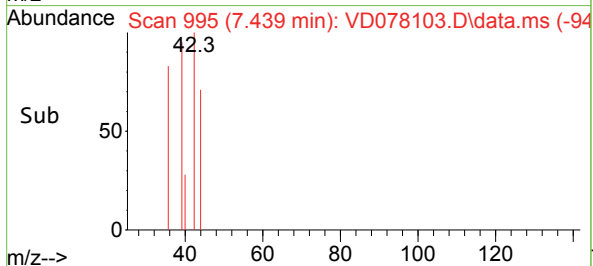
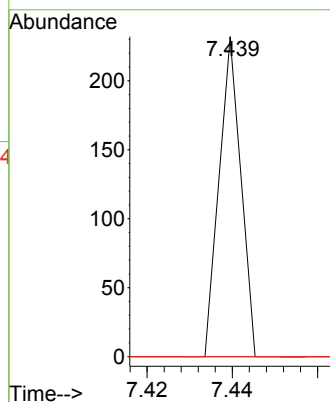
MSVOA_D

ClientSampleId :

OR-05-122723RE



Tgt Ion:	42	Resp:	82
Ion	Ratio	Lower	Upper
42	100		
72	0.0	46.5	69.7#
71	0.0	44.5	66.7#



#33

1,2-Dichloroethane-d4

Concen: 72.642 ug/l

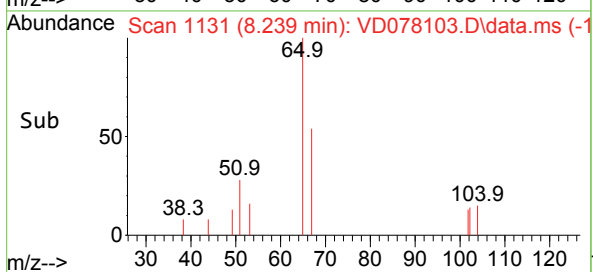
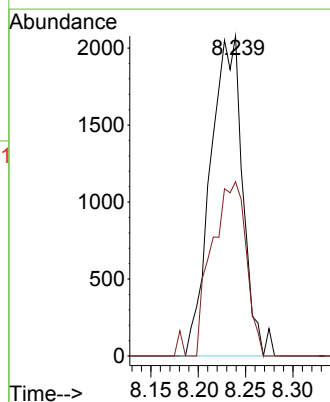
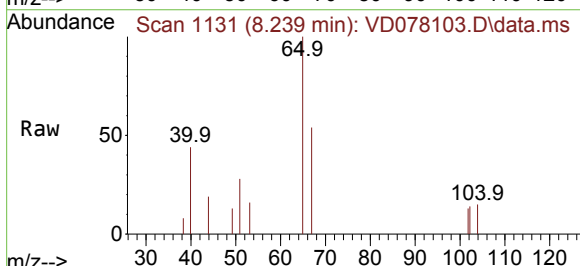
RT: 8.239 min Scan# 1131

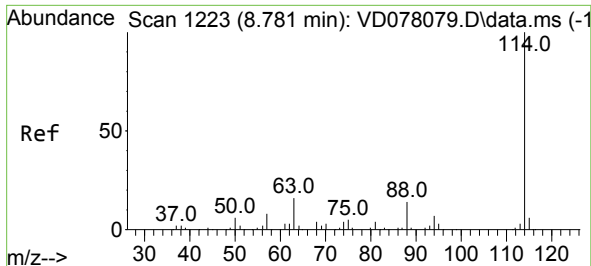
Delta R.T. 0.006 min

Lab File: VD078103.D

Acq: 29 Dec 2023 12:54

Tgt Ion:	65	Resp:	4909
Ion	Ratio	Lower	Upper
65	100		
67	57.9	0.0	115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD078103.D

Acq: 29 Dec 2023 12:54

Instrument :

MSVOA_D

ClientSampleId :

OR-05-122723RE

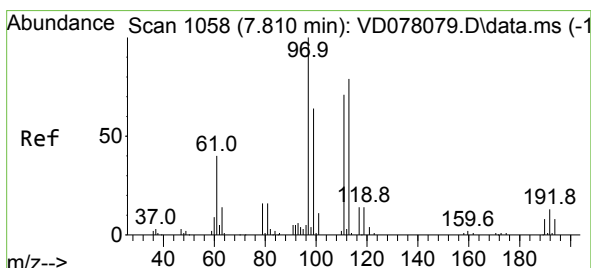
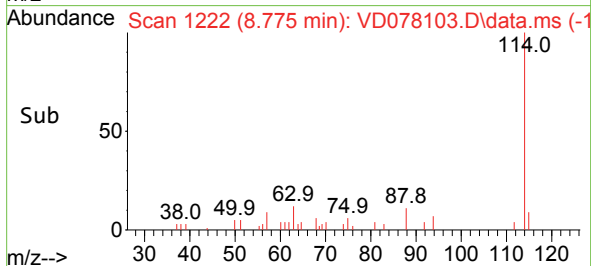
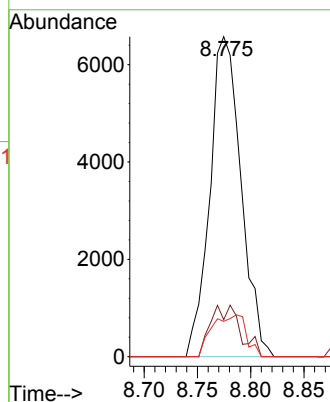
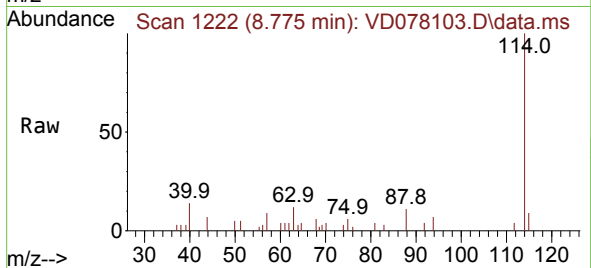
Tgt Ion:114 Resp: 13407

Ion Ratio Lower Upper

114 100

63 11.6 0.0 33.4

88 11.1 0.0 26.2



#35

Dibromofluoromethane

Concen: 56.721 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VD078103.D

Acq: 29 Dec 2023 12:54

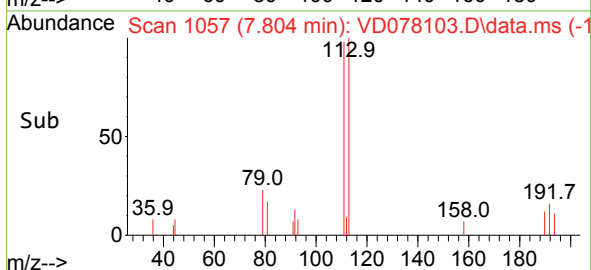
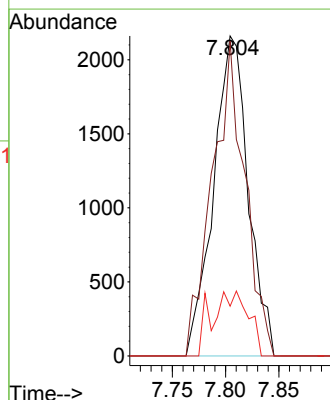
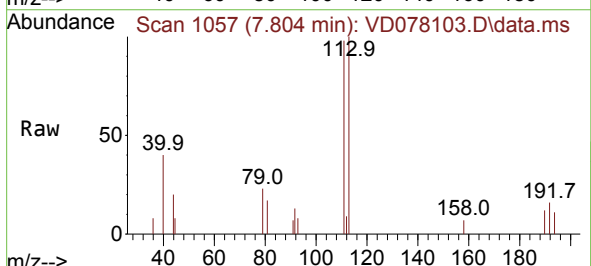
Tgt Ion:113 Resp: 4893

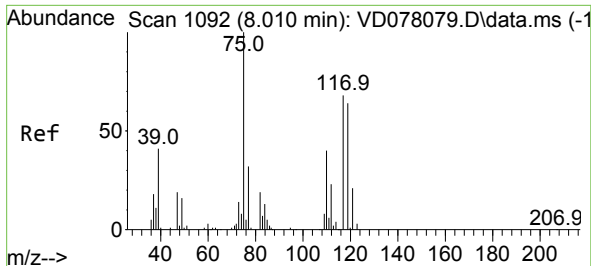
Ion Ratio Lower Upper

113 100

111 92.4 84.7 127.1

192 21.1 16.8 25.2

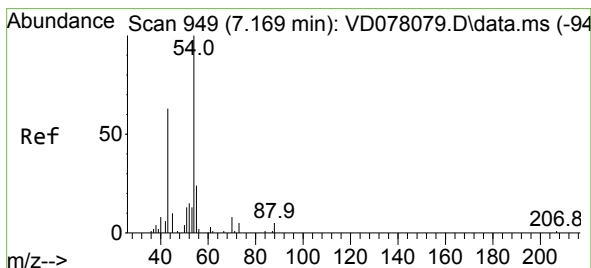
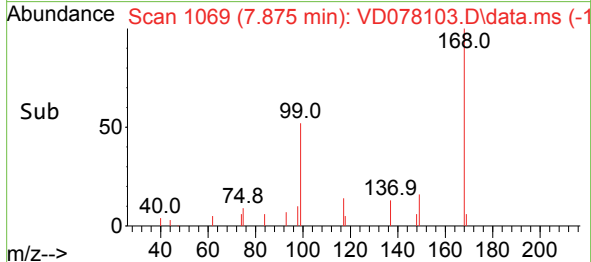
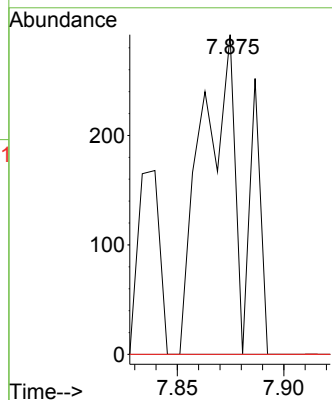
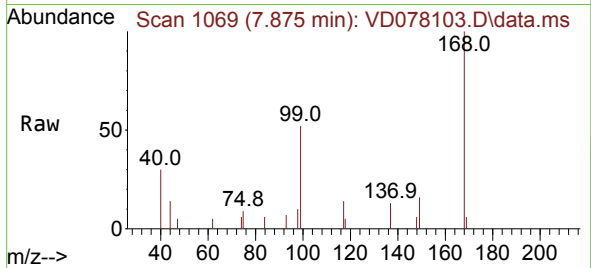




#36
1,1-Dichloropropene
Concen: 3.246 ug/l
RT: 7.875 min Scan# 1092
Delta R.T. -0.135 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

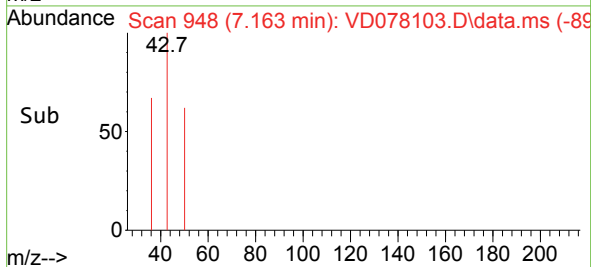
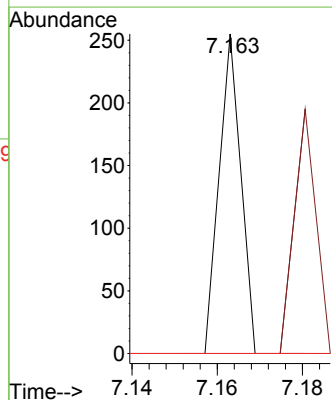
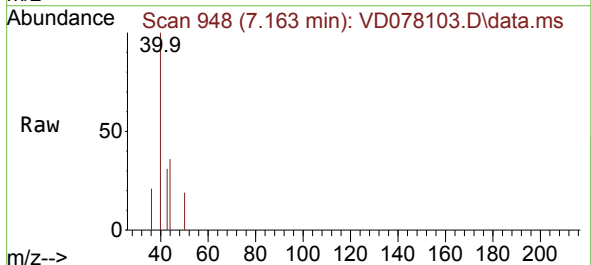
Instrument :
MSVOA_D
ClientSampleId :
OR-05-122723RE

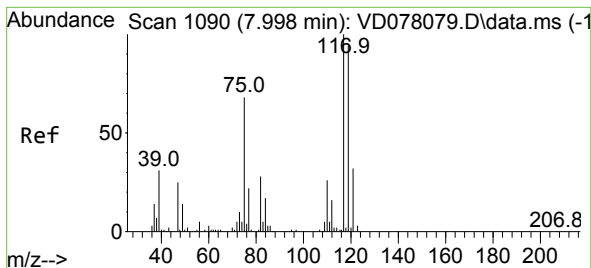
Tgt Ion: 75 Resp: 394
Ion Ratio Lower Upper
75 100
110 0.0 19.9 59.6#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 2.229 ug/l
RT: 7.163 min Scan# 948
Delta R.T. -0.006 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

Tgt Ion: 43 Resp: 90
Ion Ratio Lower Upper
43 100
61 76.7 14.9 22.3#
70 0.0 10.0 15.0#





#38

Carbon Tetrachloride

Concen: 4.265 ug/l

RT: 7.881 min Scan# 1

Delta R.T. -0.118 min

Lab File: VD078103.D

Acq: 29 Dec 2023 12:54

Instrument :

MSVOA_D

ClientSampleId :

OR-05-122723RE

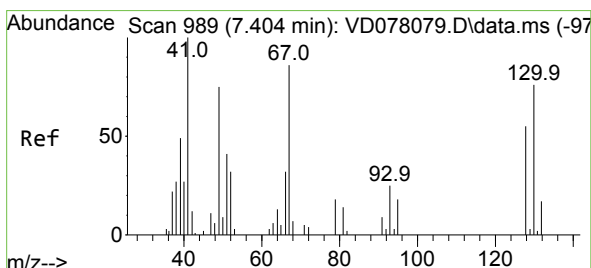
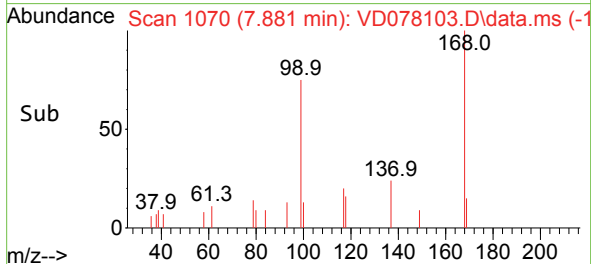
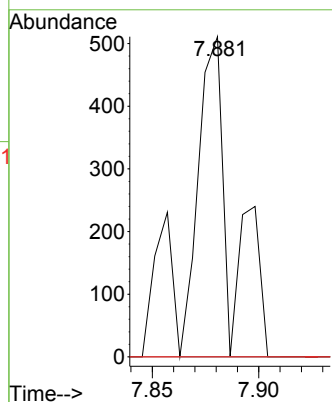
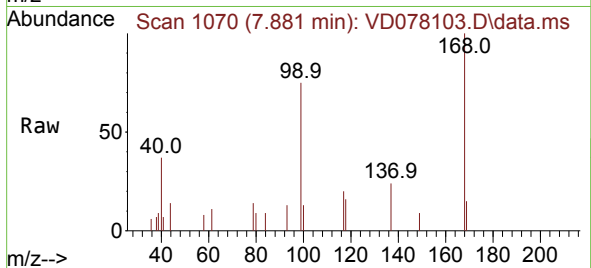
Tgt Ion:117 Resp: 561

Ion Ratio Lower Upper

117 100

119 0.0 78.0 117.0#

121 0.0 24.2 36.2#



#41

Methacrylonitrile

Concen: 2.271 ug/l

RT: 7.387 min Scan# 986

Delta R.T. -0.018 min

Lab File: VD078103.D

Acq: 29 Dec 2023 12:54

Tgt Ion: 41 Resp: 58

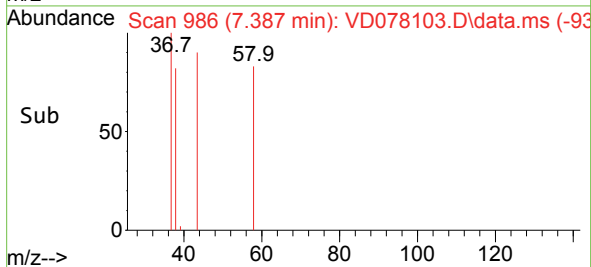
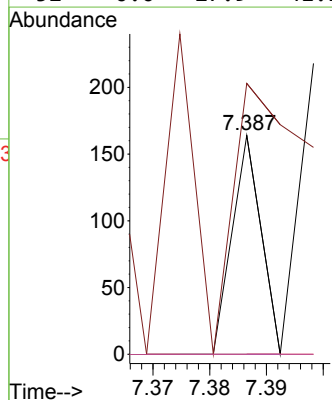
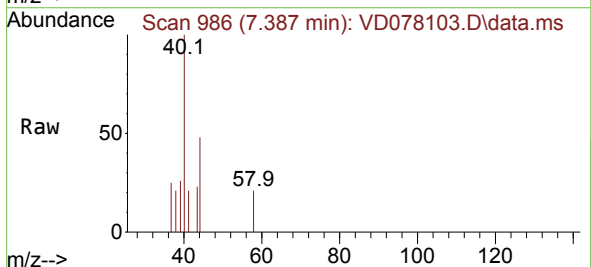
Ion Ratio Lower Upper

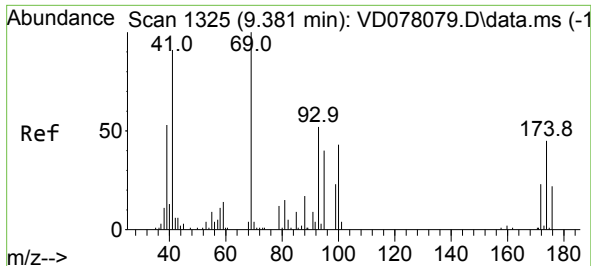
41 100

39 322.4 34.0 51.0#

67 0.0 77.0 115.4#

52 0.0 27.9 41.9#





#48

Methyl methacrylate

Concen: 1.208 ug/l

RT: 9.375 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD078103.D

Acq: 29 Dec 2023 12:54

Instrument :

MSVOA_D

ClientSampleId :

OR-05-122723RE

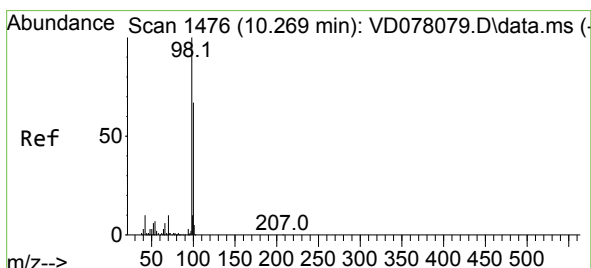
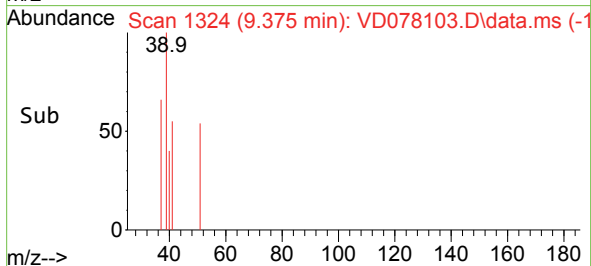
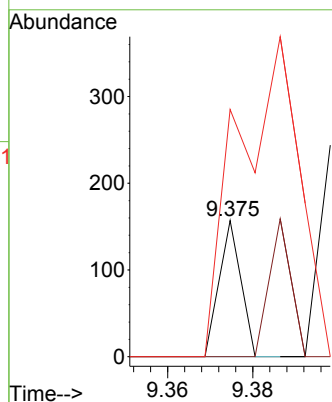
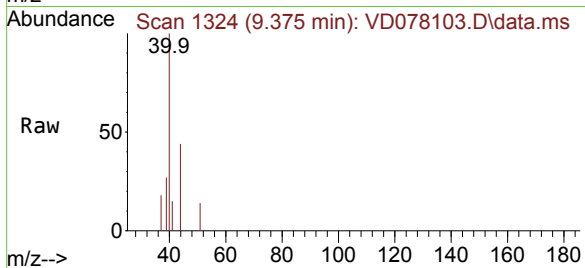
Tgt Ion: 41 Resp: 55

Ion Ratio Lower Upper

41 100

69 0.0 102.2 153.2#

39 0.0 41.4 62.2#



#50

Toluene-d8

Concen: 52.501 ug/l

RT: 10.275 min Scan# 1477

Delta R.T. 0.006 min

Lab File: VD078103.D

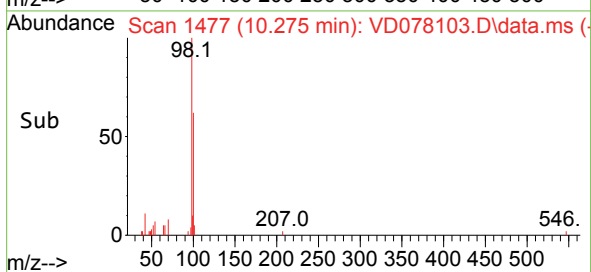
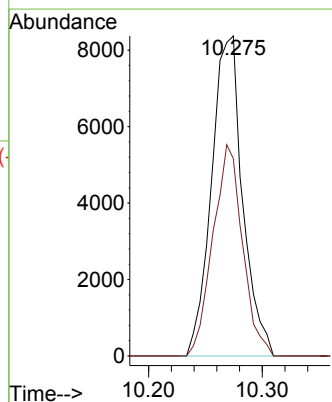
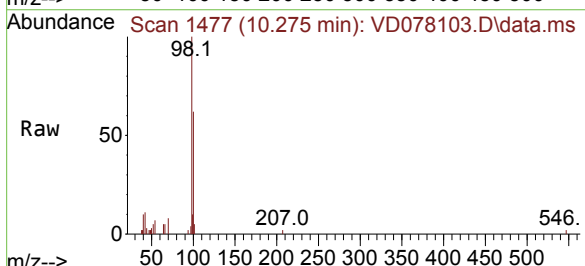
Acq: 29 Dec 2023 12:54

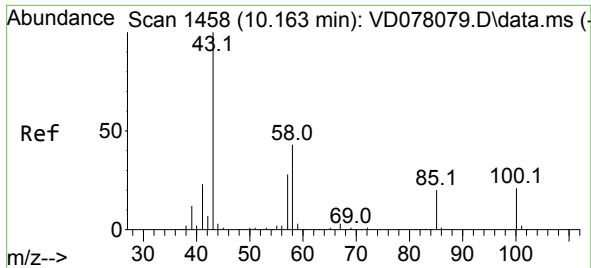
Tgt Ion: 98 Resp: 15936

Ion Ratio Lower Upper

98 100

100 62.8 50.3 75.5

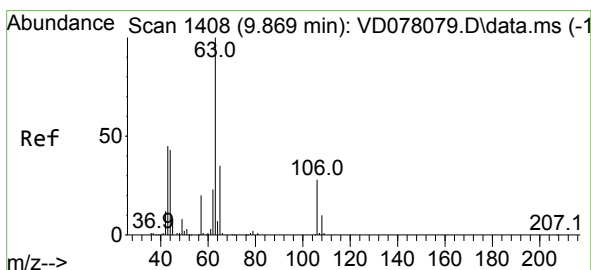
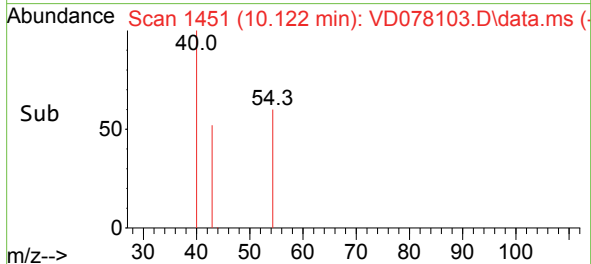
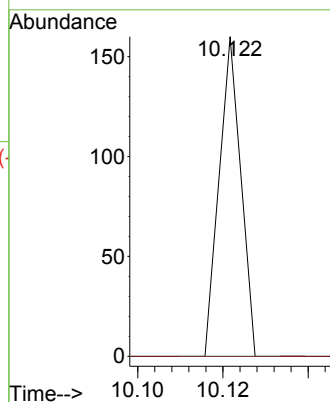
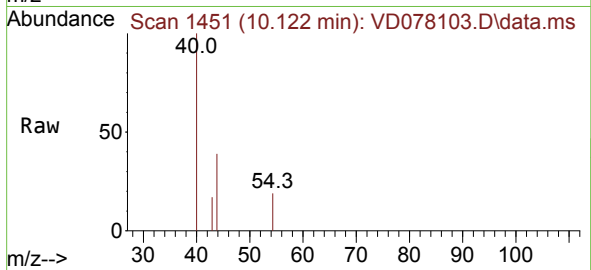




#51
4-Methyl-2-Pentanone
Concen: 1.350 ug/l
RT: 10.122 min Scan# 1451
Delta R.T. -0.041 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

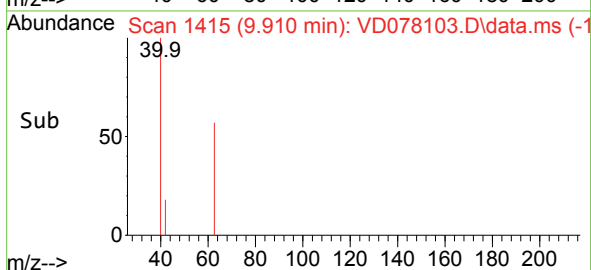
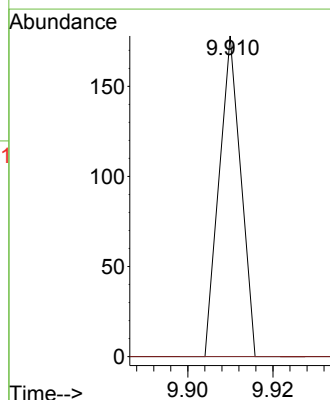
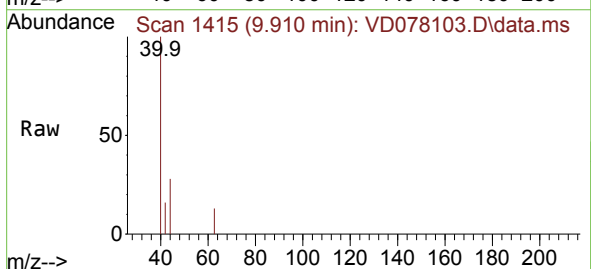
Instrument :
MSVOA_D
ClientSampleId :
OR-05-122723RE

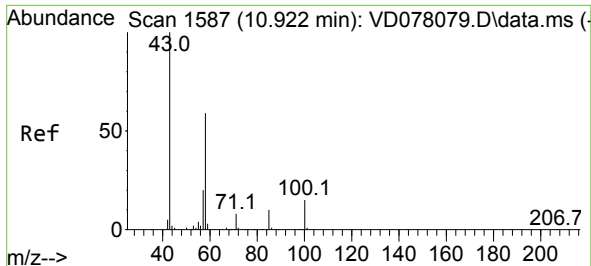
Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
58 0.0 38.9 58.3#



#58
2-Chloroethyl Vinyl ether
Concen: 2.624 ug/l
RT: 9.910 min Scan# 1415
Delta R.T. 0.041 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

Tgt Ion: 63 Resp: 63
Ion Ratio Lower Upper
63 100
106 0.0 25.3 37.9#

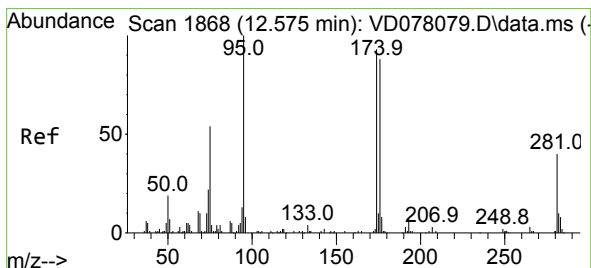
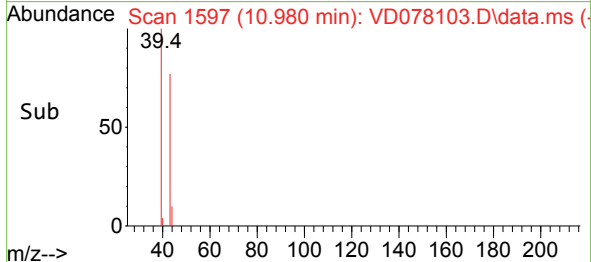
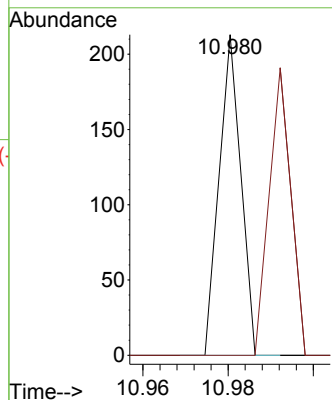
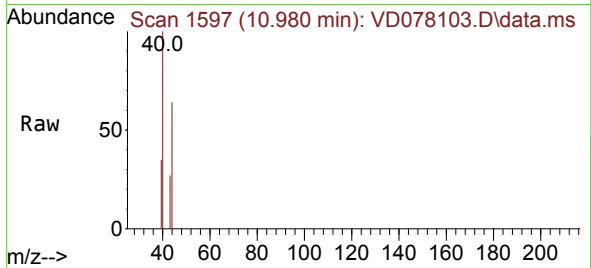




#59
2-Hexanone
Concen: 2.328 ug/l
RT: 10.980 min Scan# 1597
Delta R.T. 0.059 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

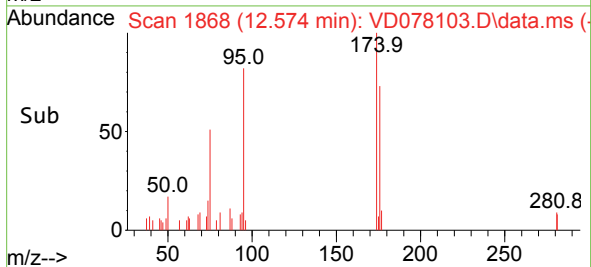
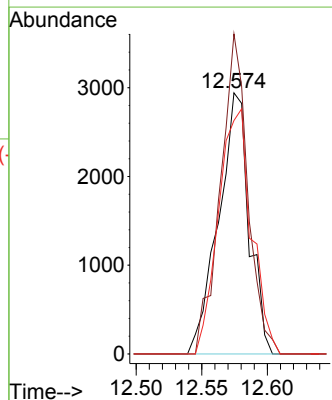
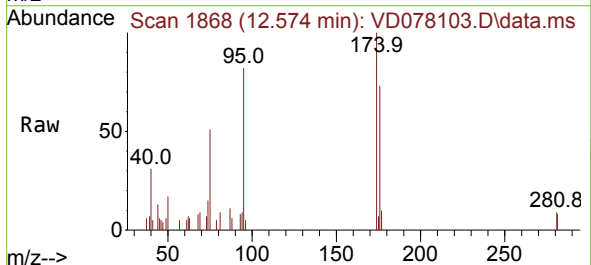
Instrument :
MSVOA_D
ClientSampleId :
OR-05-122723RE

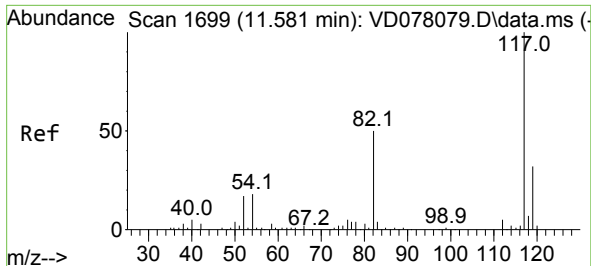
Tgt Ion: 43 Resp: 75
Ion Ratio Lower Upper
43 100
58 89.3 34.1 102.2



#62
4-Bromofluorobenzene
Concen: 48.983 ug/l
RT: 12.574 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

Tgt Ion: 95 Resp: 4784
Ion Ratio Lower Upper
95 100
174 110.1 0.0 201.8
176 101.1 0.0 191.8

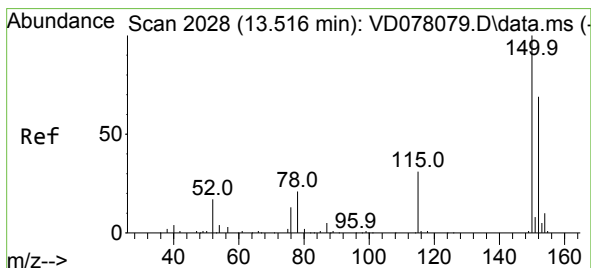
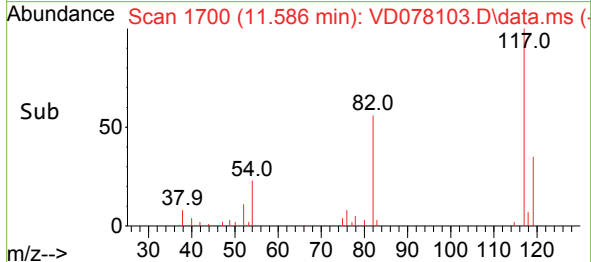
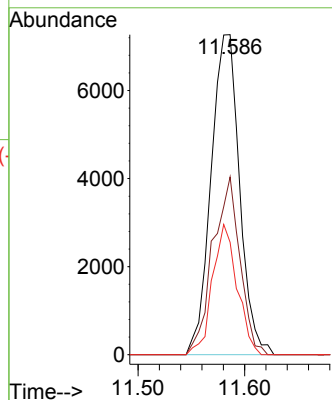
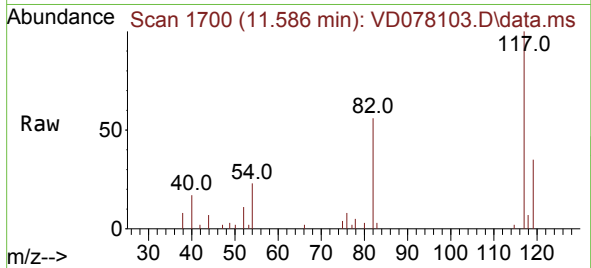




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.586 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

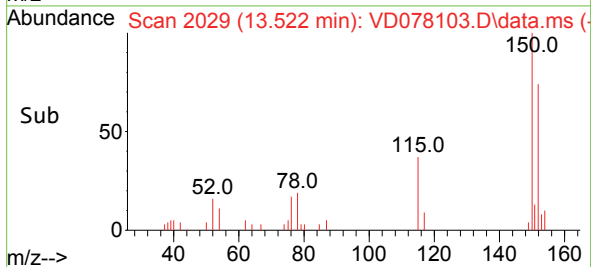
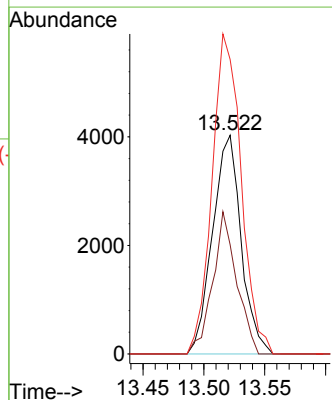
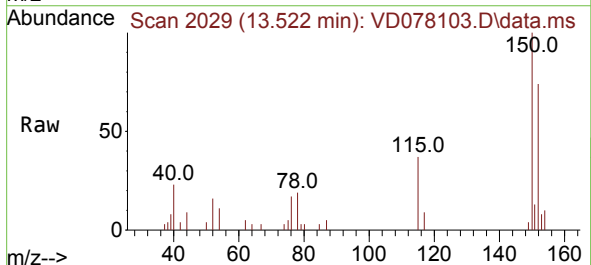
Instrument :
MSVOA_D
ClientSampleId :
OR-05-122723RE

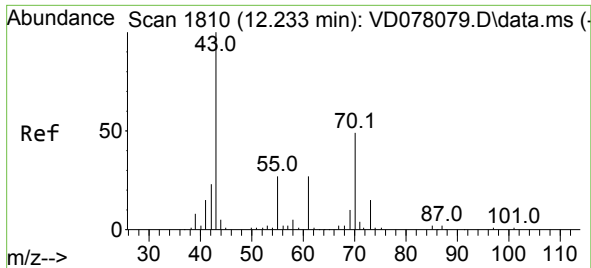
Tgt Ion:117 Resp: 13502
Ion Ratio Lower Upper
117 100
82 55.6 38.3 57.5
119 35.1 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.522 min Scan# 2029
Delta R.T. 0.006 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

Tgt Ion:152 Resp: 6584
Ion Ratio Lower Upper
152 100
115 54.4 27.1 81.3
150 149.0 0.0 353.6

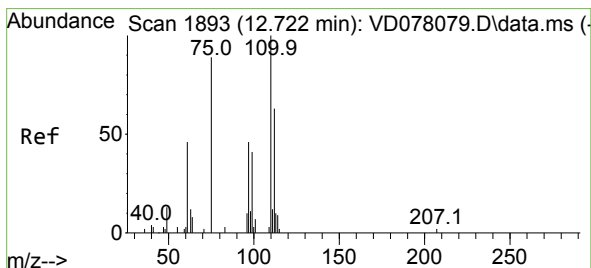
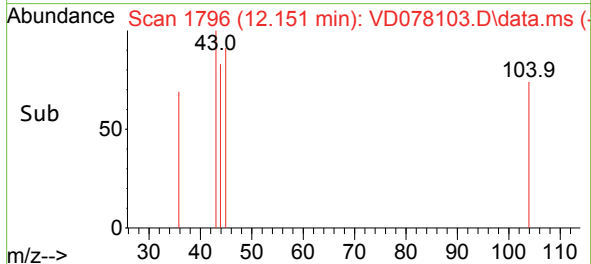
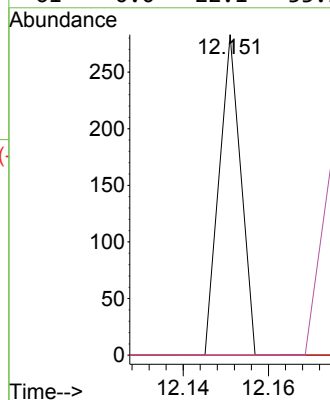
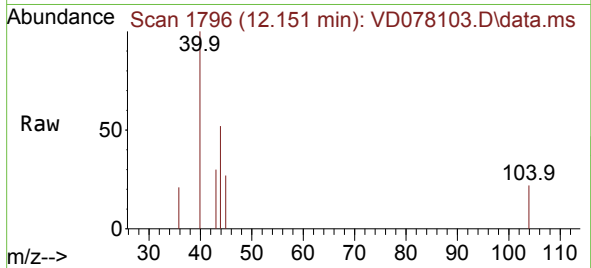




#74
N-amy1 acetate
Concen: 1.328 ug/l
RT: 12.151 min Scan# 1796
Delta R.T. -0.082 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

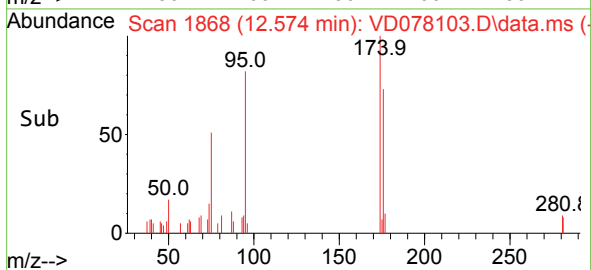
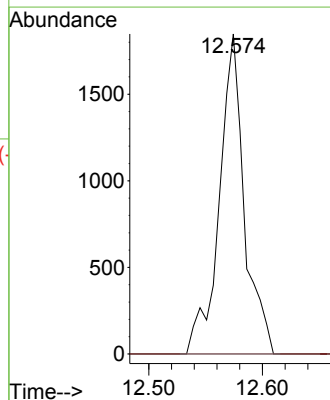
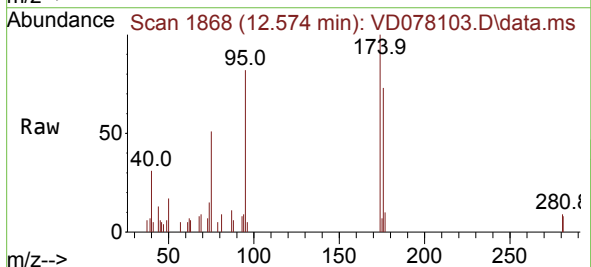
Instrument :
MSVOA_D
ClientSampleId :
OR-05-122723RE

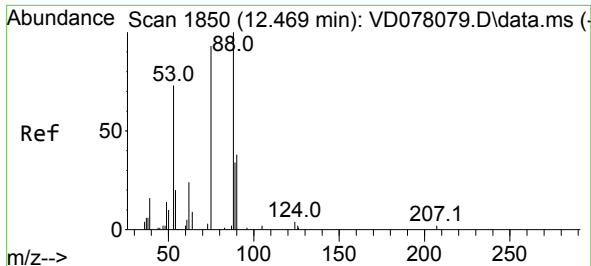
Tgt Ion: 43	Resp: 100
Ion Ratio	Lower Upper
43	100
70	0.0 45.0 67.4#
55	0.0 23.8 35.6#
61	0.0 22.1 33.1#



#76
1,2,3-Trichloropropane
Concen: 50.840 ug/l
RT: 12.574 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

Tgt Ion: 75	Resp: 2824
Ion Ratio	Lower Upper
75	100
77	0.0 0.0 0.0

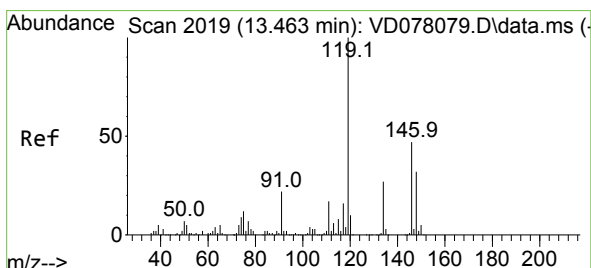
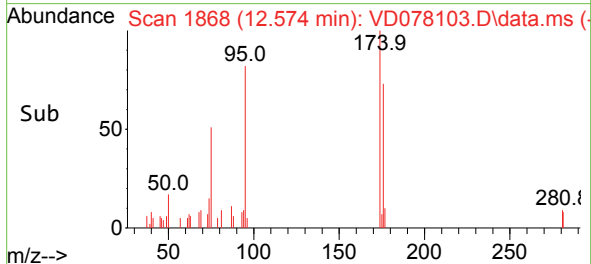
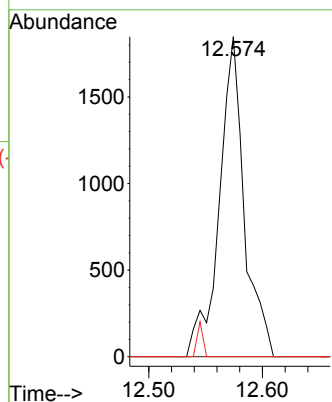
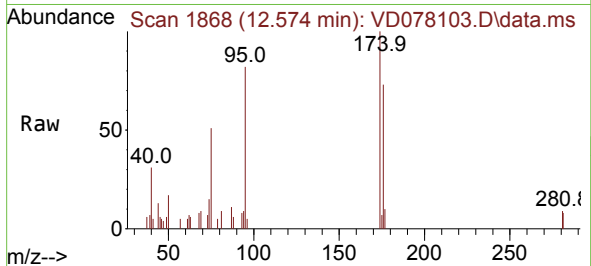




#81
trans-1,4-Dichloro-2-butene
Concen: 109.548 ug/l
RT: 12.574 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

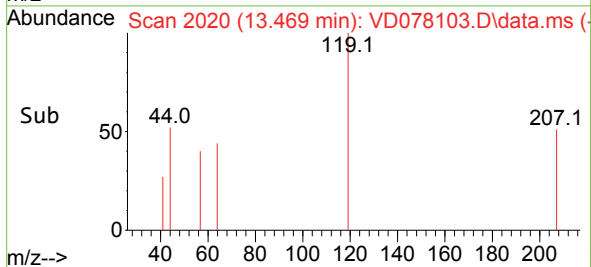
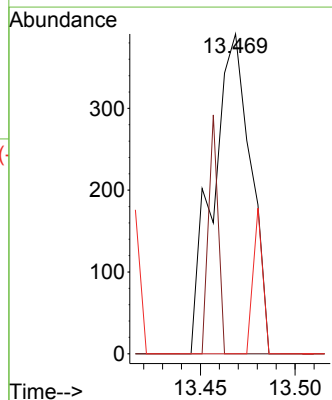
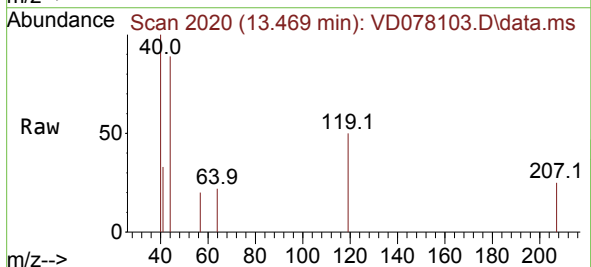
Instrument :
MSVOA_D
ClientSampleId :
OR-05-122723RE

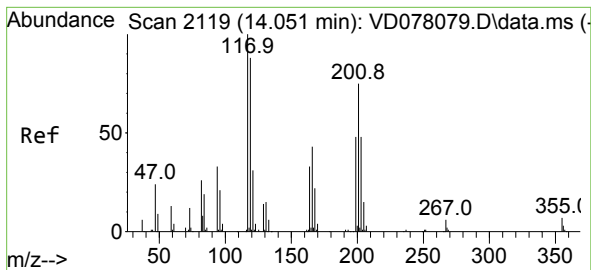
Tgt Ion: 75 Resp: 2824
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#



#86
p-Isopropyltoluene
Concen: 1.265 ug/l
RT: 13.469 min Scan# 2020
Delta R.T. 0.006 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

Tgt Ion: 119 Resp: 543
Ion Ratio Lower Upper
119 100
134 0.0 14.2 42.6#
91 11.6 10.5 31.5

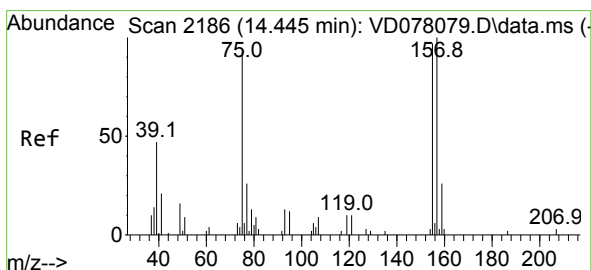
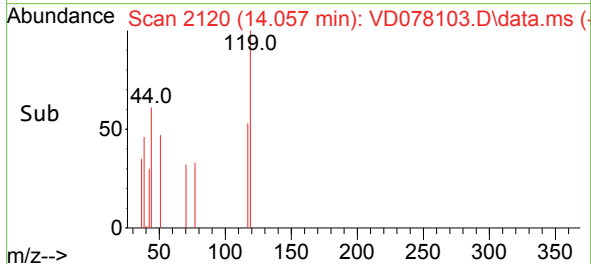
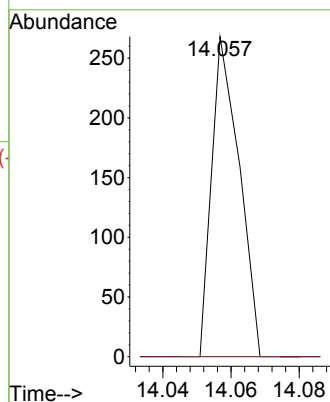
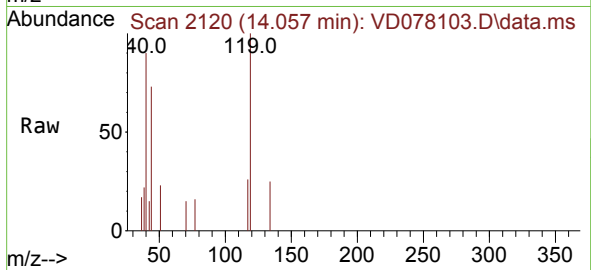




#90
Hexachloroethane
Concen: 1.759 ug/l
RT: 14.057 min Scan# 2119
Delta R.T. 0.006 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

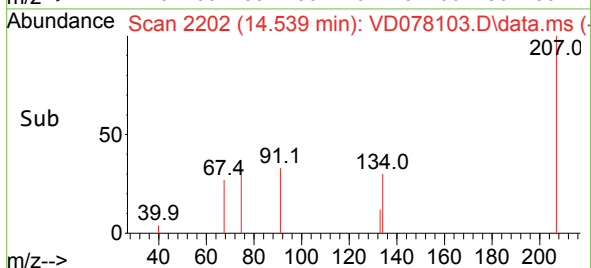
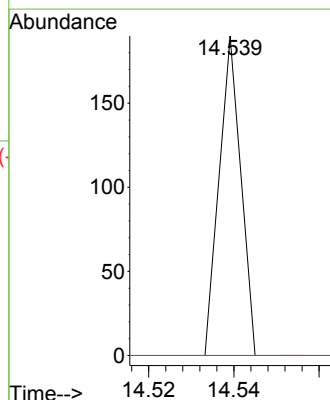
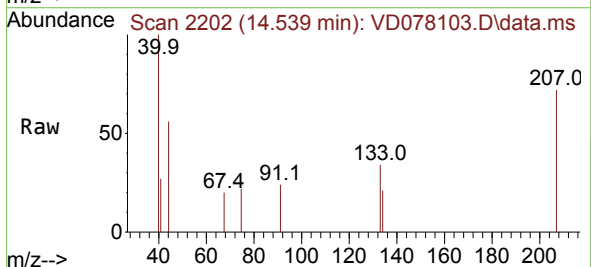
Instrument :
MSVOA_D
ClientSampleId :
OR-05-122723RE

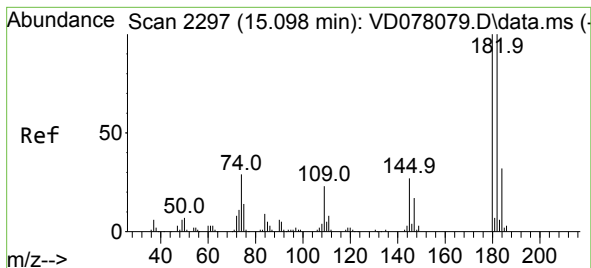
Tgt Ion:117 Resp: 151
Ion Ratio Lower Upper
117 100
201 0.0 38.5 115.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.804 ug/l
RT: 14.539 min Scan# 2202
Delta R.T. 0.094 min
Lab File: VD078103.D
Acq: 29 Dec 2023 12:54

Tgt Ion: 75 Resp: 67
Ion Ratio Lower Upper
75 100
155 0.0 47.9 143.8#
157 0.0 59.9 179.7#





#93

1,2,4-Trichlorobenzene

Concen: 1.156 ug/l

RT: 15.098 min Scan# 2297

Delta R.T. -0.000 min

Lab File: VD078103.D

Acq: 29 Dec 2023 12:54

Instrument :

MSVOA_D

ClientSampleId :

OR-05-122723RE

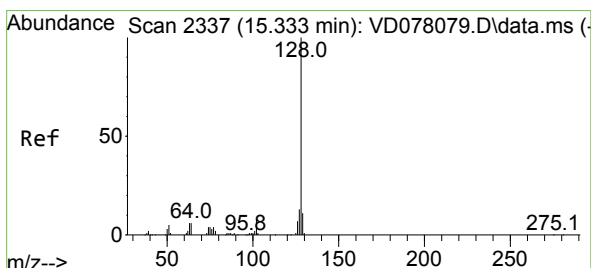
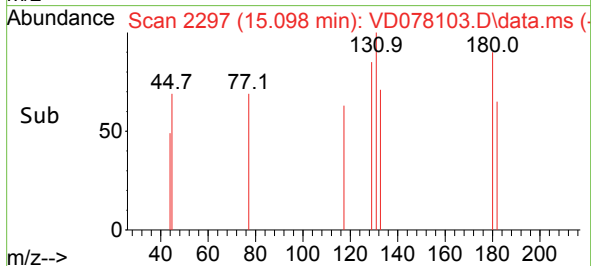
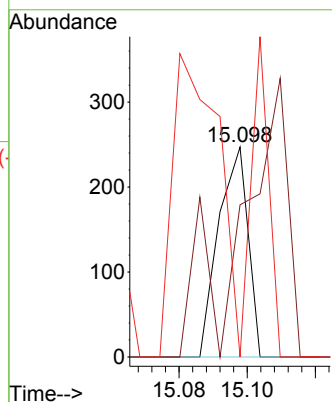
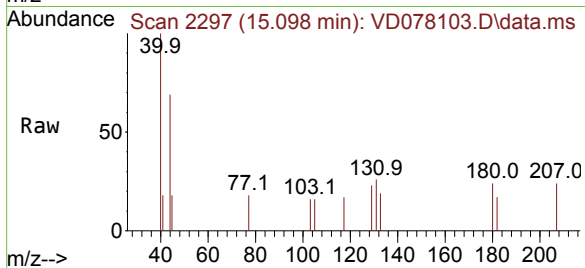
Tgt Ion:180 Resp: 148

Ion Ratio Lower Upper

180 100

182 211.5 48.5 145.6#

145 0.0 14.2 42.6#



#95

Naphthalene

Concen: 4.585 ug/l

RT: 15.333 min Scan# 2337

Delta R.T. -0.000 min

Lab File: VD078103.D

Acq: 29 Dec 2023 12:54

Tgt Ion:128 Resp: 999

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#

