

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121323\
 Data File : VD077866.D
 Acq On : 13 Dec 2023 16:58
 Operator : RP/MD
 Sample : 05611-01
 Misc : 5.01G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 14 01:54:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 08 13:33:18 2023
 Response via : Initial Calibration

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

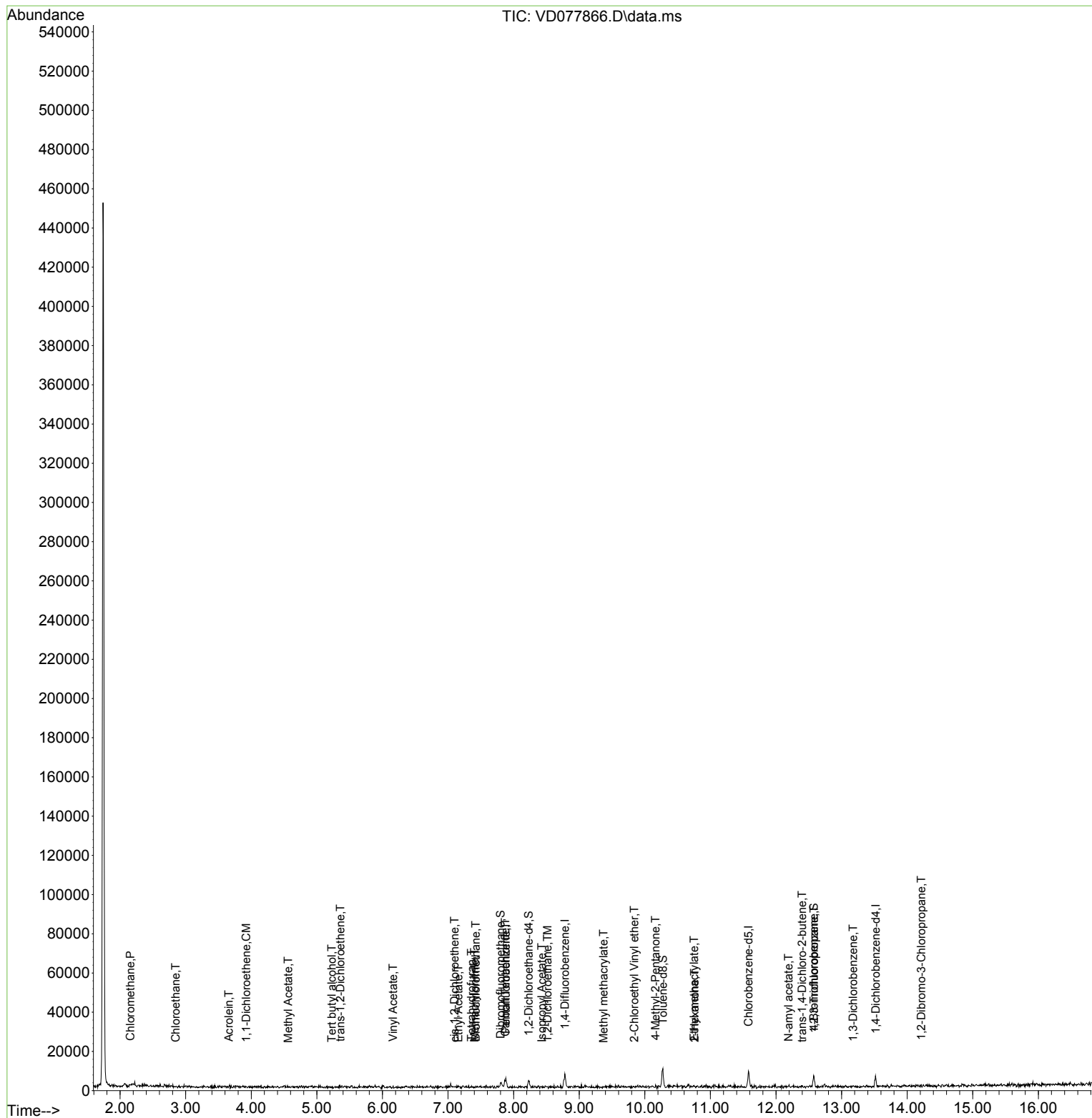
Internal Standards						
1) Pentafluorobenzene	7.881	168	3672	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.781	114	5585	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	4365	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	1393	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	1845	42.640	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	85.280%		
35) Dibromofluoromethane	7.799	113	1884	48.158	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	96.320%		
50) Toluene-d8	10.275	98	6421	40.980	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	81.960%		
62) 4-Bromofluorobenzene	12.575	95	1620	34.582	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	69.160%		
Target Compounds						Qvalue
3) Chloromethane	2.158	50	133	2.127	ug/l	# 41
6) Chloroethane	2.846	64	183	3.162	ug/l	# 43
11) Tert butyl alcohol	5.228	59	68	22.371	ug/l	# 73
12) 1,1-Dichloroethene	3.922	96	124	2.809	ug/l	# 1
13) Acrolein	3.658	56	74	16.167	ug/l	# 15
16) Acetone	4.040	43	72	Below Cal	#	43
18) Methyl Acetate	4.564	43	66	1.937	ug/l	# 42
20) Methylene Chloride	4.817	84	118	Below Cal	#	17
21) trans-1,2-Dichloroethene	5.358	96	61	1.220	ug/l	# 4
23) Vinyl Acetate	6.164	43	63	1.017	ug/l	# 63
25) 2-Butanone	7.116	43	55	Below Cal	#	37
27) cis-1,2-Dichloroethene	7.099	96	56	1.041	ug/l	# 1
28) Bromochloromethane	7.422	49	55	1.584	ug/l	# 1
29) Tetrahydrofuran	7.358	42	79	11.466	ug/l	# 23
37) Ethyl Acetate	7.158	43	55	2.254	ug/l	# 62
38) Carbon Tetrachloride	7.875	117	437	7.005	ug/l	# 11
41) Methacrylonitrile	7.405	41	72	5.806	ug/l	# 1
42) 1,2-Dichloroethane	8.516	62	56	1.216	ug/l	# 68
43) Isopropyl Acetate	8.428	43	83	1.914	ug/l	# 43
48) Methyl methacrylate	9.369	41	133	5.394	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.163	43	66	2.982	ug/l	# 28
56) Ethyl methacrylate	10.752	69	54	1.960	ug/l	# 1
58) 2-Chloroethyl Vinyl ether	9.840	63	56	3.565	ug/l	# 43
59) 2-Hexanone	10.757	43	114	6.207	ug/l	# 85
74) N-amyl acetate	12.193	43	138	6.650	ug/l	# 35
76) 1,2,3-Trichloropropane	12.581	75	1212	100.180	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.399	75	60	10.048	ug/l	# 17
87) 1,3-Dichlorobenzene	13.175	146	58	1.142	ug/l	# 25
92) 1,2-Dibromo-3-Chloropr...	14.216	75	68	25.010	ug/l	# 1

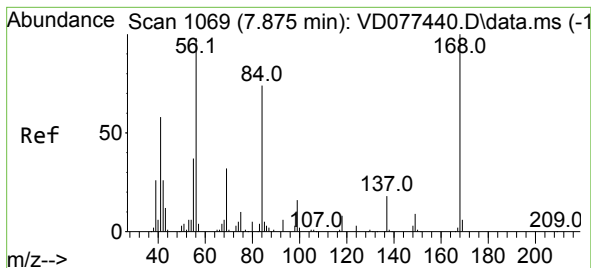
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121323\
Data File : VD077866.D
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Quant Time: Dec 14 01:54:41 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
Quant Title : SW846 8260
QLast Update : Fri Dec 08 13:33:18 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.881 min Scan# 10

Delta R.T. 0.006 min

Lab File: VD077866.D

Acq: 13 Dec 2023 16:58

Instrument :

MSVOA_D

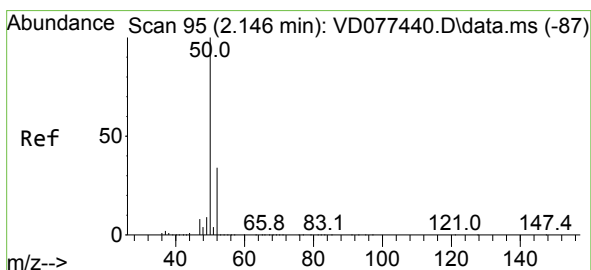
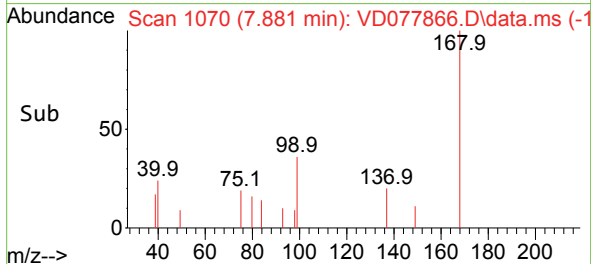
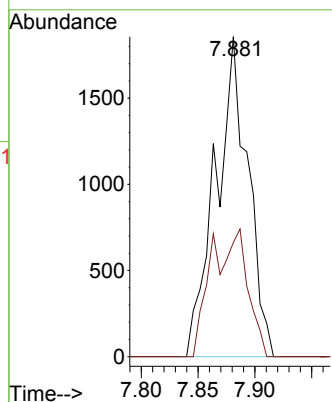
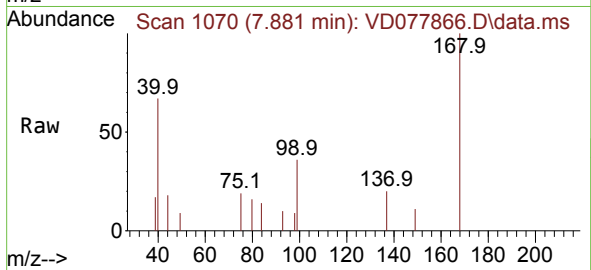
ClientSampleId :

Tgt Ion:168 Resp: 3672

Ion Ratio Lower Upper

168 100

99 35.6 36.7 55.1#



#3

Chloromethane

Concen: 2.127 ug/l

RT: 2.158 min Scan# 97

Delta R.T. 0.012 min

Lab File: VD077866.D

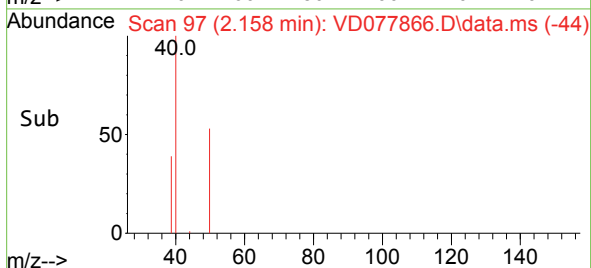
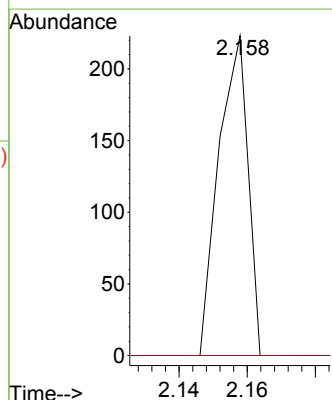
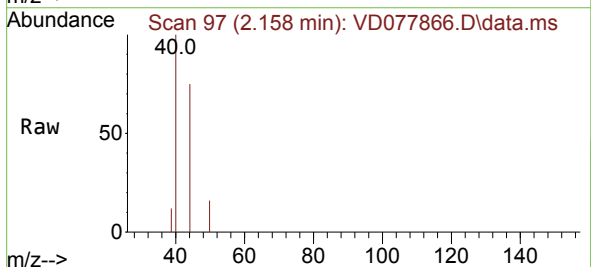
Acq: 13 Dec 2023 16:58

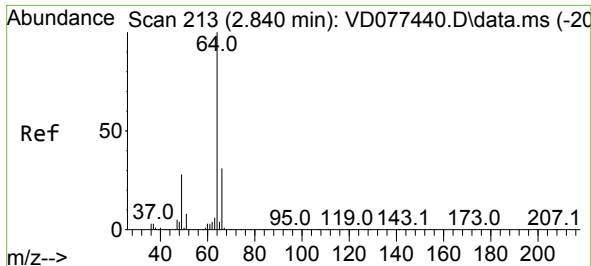
Tgt Ion: 50 Resp: 133

Ion Ratio Lower Upper

50 100

52 0.0 26.6 40.0#

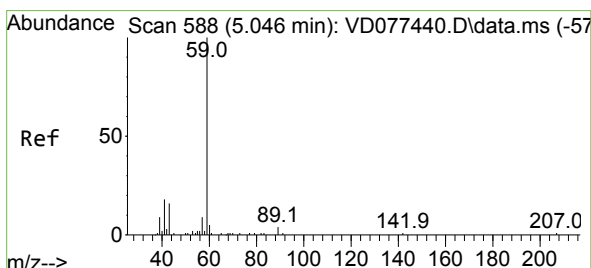
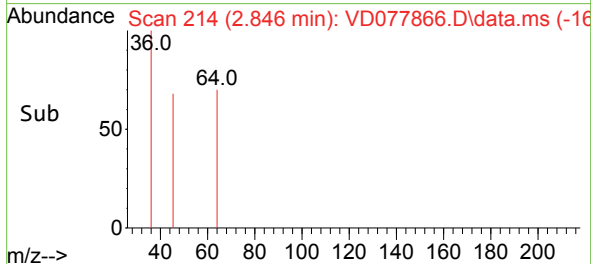
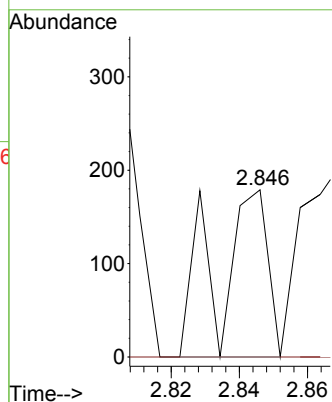
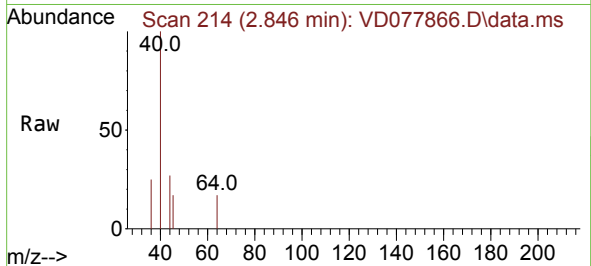




#6
Chloroethane
Concen: 3.162 ug/l
RT: 2.846 min Scan# 213
Delta R.T. 0.006 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

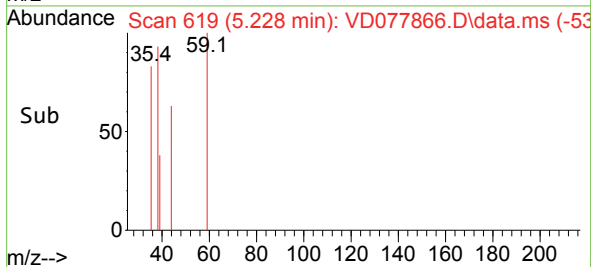
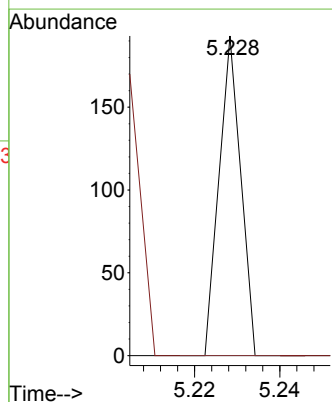
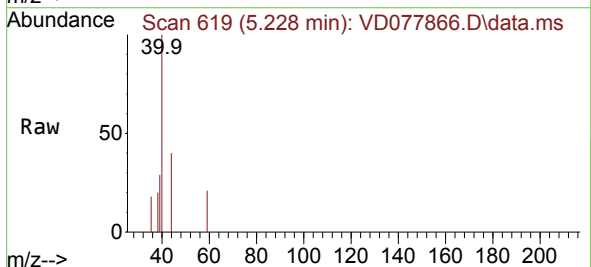
Instrument :
MSVOA_D
ClientSampleId :

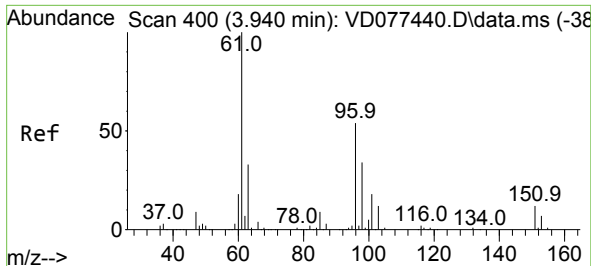
Tgt Ion: 64 Resp: 183
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#



#11
Tert butyl alcohol
Concen: 22.371 ug/l
RT: 5.228 min Scan# 619
Delta R.T. 0.182 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

Tgt Ion: 59 Resp: 68
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#





#12

1,1-Dichloroethene

Concen: 2.809 ug/l

RT: 3.922 min Scan# 397

Delta R.T. -0.018 min

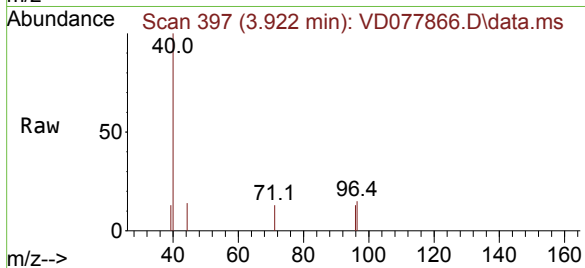
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Acq: 13 Dec 2023 16:58

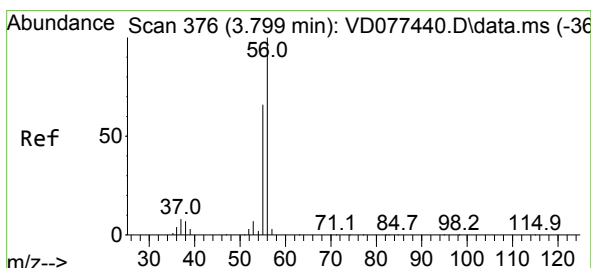
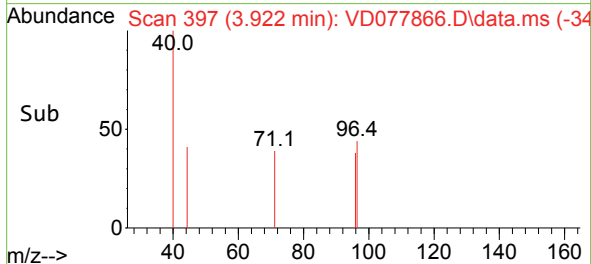
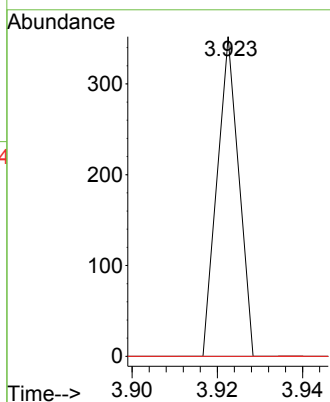
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 96	Resp:	124
Ion	Ratio	Lower Upper
96	100	
61	0.0	100.6 150.8#
98	0.0	50.2 75.2#



#13

Acrolein

Concen: 16.167 ug/l

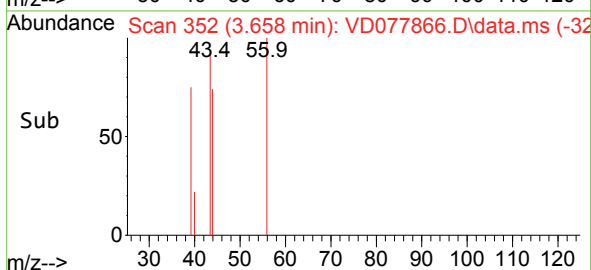
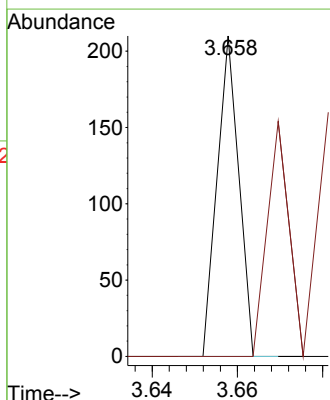
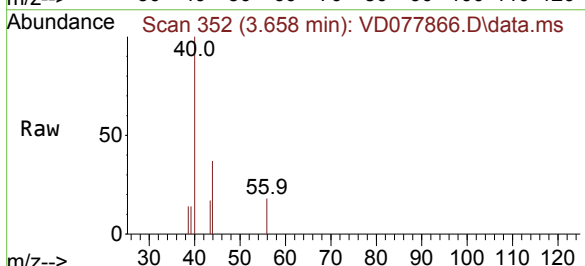
RT: 3.658 min Scan# 352

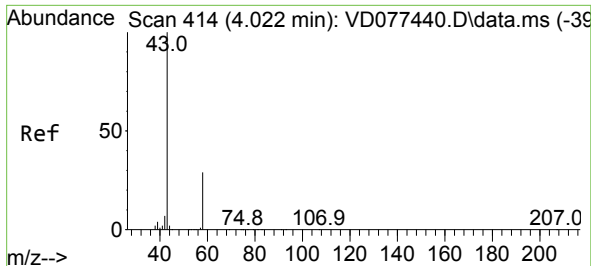
Delta R.T. -0.141 min

Lab File: VD077866.D

Acq: 13 Dec 2023 16:58

Tgt Ion: 56	Resp:	74
Ion	Ratio	Lower Upper
56	100	
55	0.0	55.1 82.7#

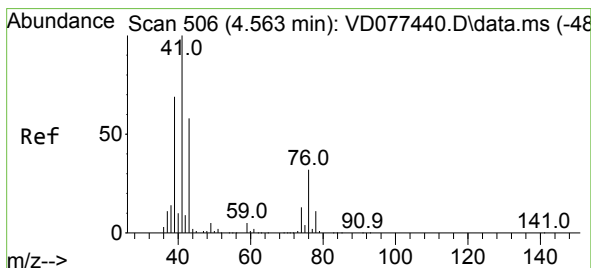
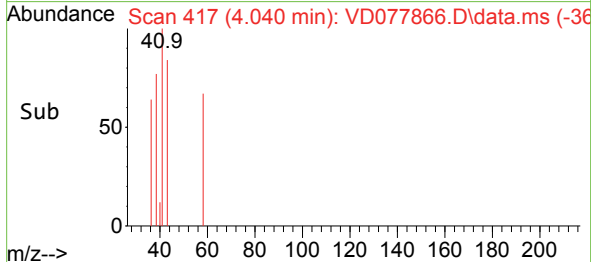
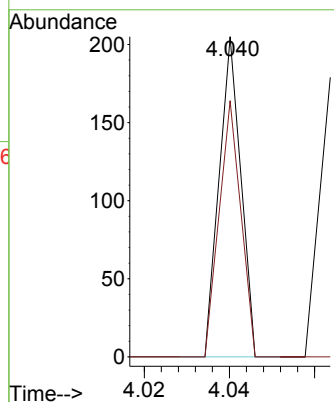
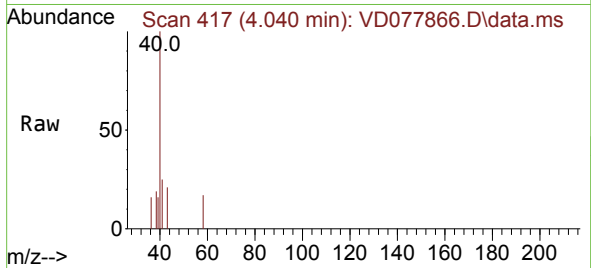




#16
Acetone
Concen: Below Cal
RT: 4.040 min Scan# 414
Delta R.T. 0.018 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

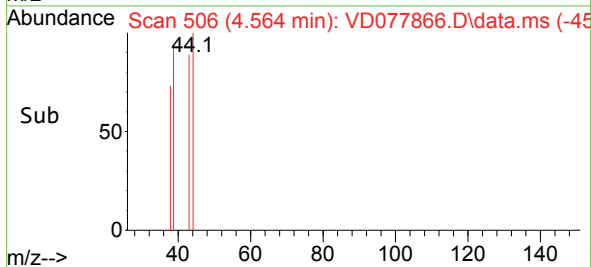
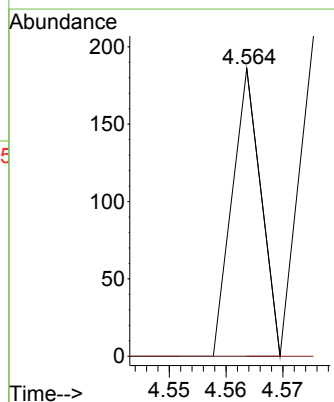
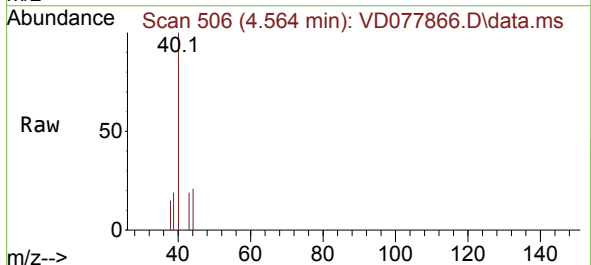
Instrument :
MSVOA_D
ClientSampleId :

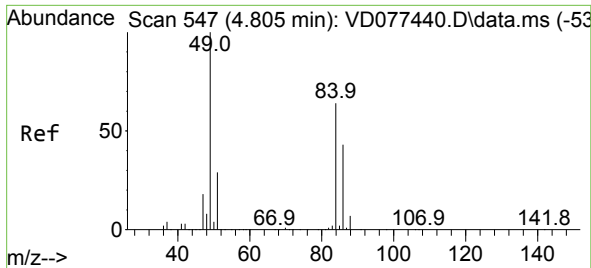
Tgt Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
58 80.0 34.7 52.1#



#18
Methyl Acetate
Concen: 1.937 ug/l
RT: 4.564 min Scan# 506
Delta R.T. 0.001 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

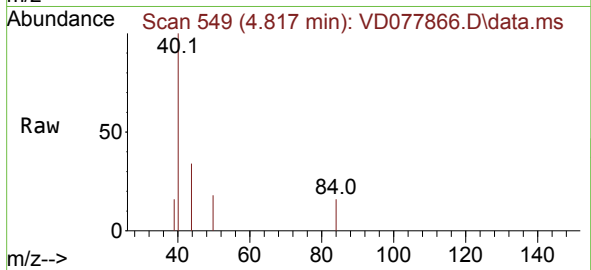
Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#



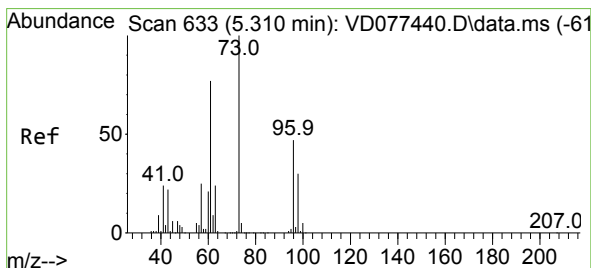
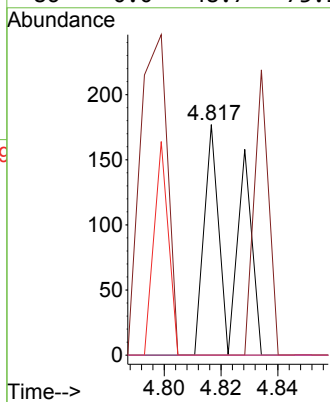
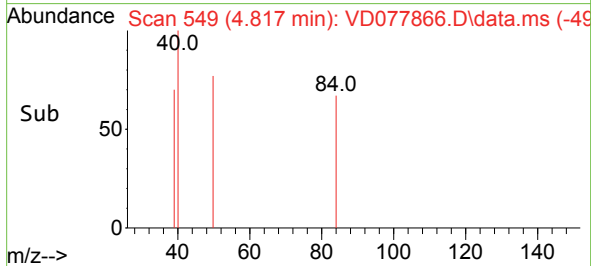


#20
Methylene Chloride
Concen: Below Cal
RT: 4.817 min Scan# 54
Delta R.T. 0.012 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

Instrument :
MSVOA_D
ClientSampleId :

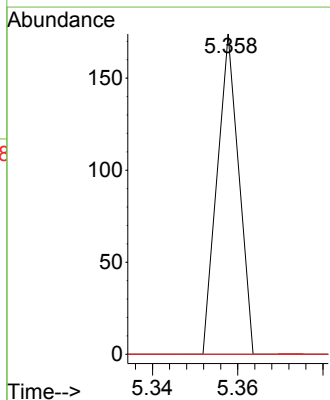
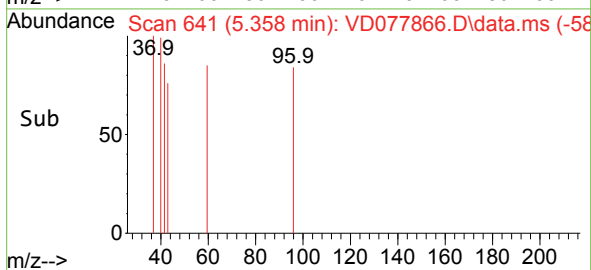
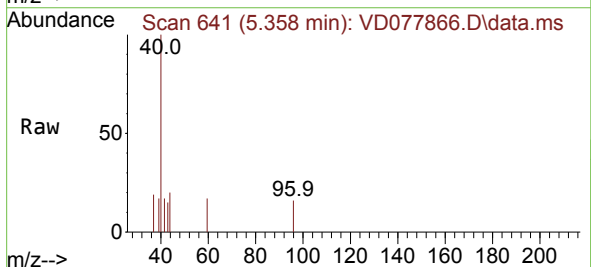


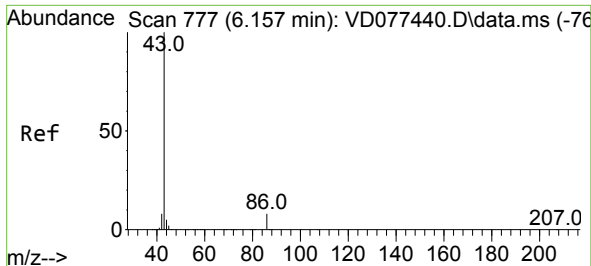
Tgt Ion: 84 Resp: 118
Ion Ratio Lower Upper
84 100
49 0.0 71.4 107.2#
51 0.0 24.5 36.7#
86 0.0 48.7 73.1#



#21
trans-1,2-Dichloroethene
Concen: 1.220 ug/l
RT: 5.358 min Scan# 641
Delta R.T. 0.048 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

Tgt Ion: 96 Resp: 61
Ion Ratio Lower Upper
96 100
61 0.0 89.3 133.9#
98 0.0 48.6 73.0#

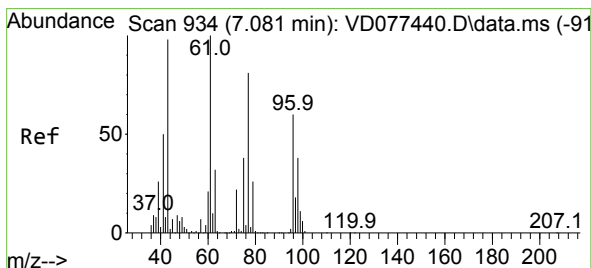
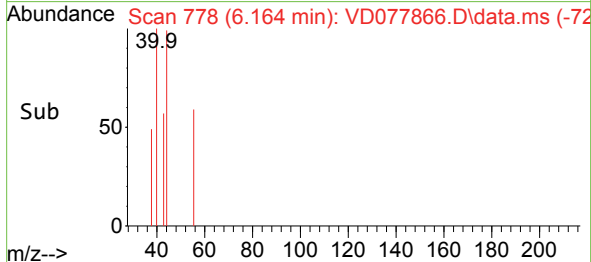
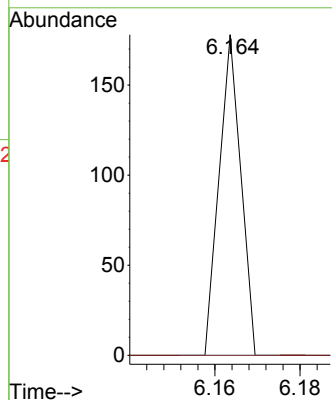
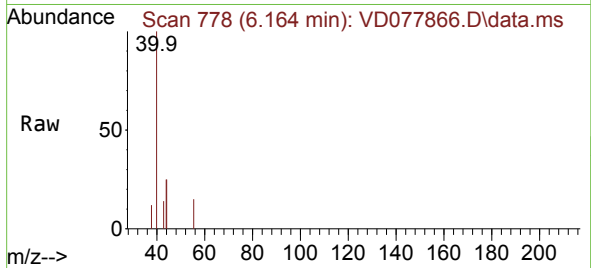




#23
 Vinyl Acetate
 Concen: 1.017 ug/l
 RT: 6.164 min Scan# 71
 Delta R.T. 0.007 min
 Lab File: VD077866.D
 Acq: 13 Dec 2023 16:58

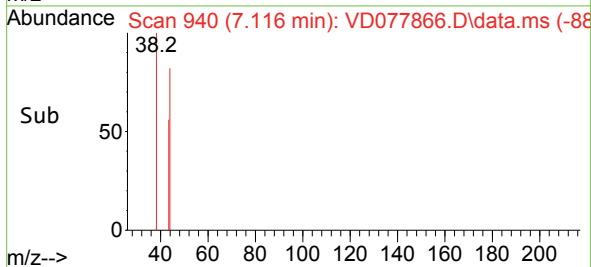
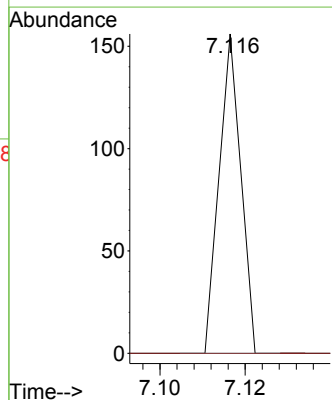
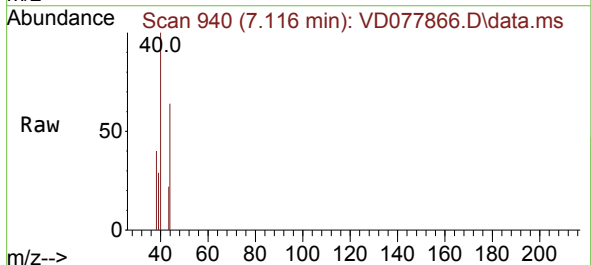
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 MSVOA_D
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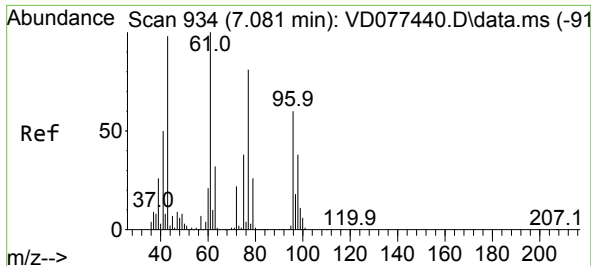
Tgt Ion: 43 Resp: 63
 Ion Ratio Lower Upper
 43 100
 86 0.0 12.5 18.7#



#25
 2-Butanone
 Concen: Below Cal
 RT: 7.116 min Scan# 940
 Delta R.T. 0.035 min
 Lab File: VD077866.D
 Acq: 13 Dec 2023 16:58

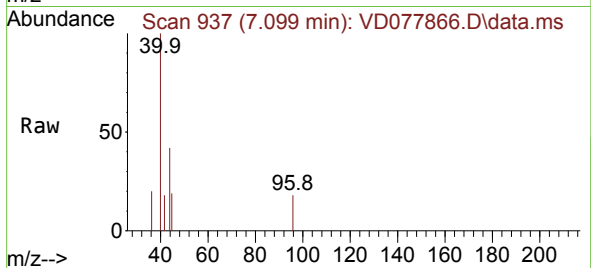
Tgt Ion: 43 Resp: 55
 Ion Ratio Lower Upper
 43 100
 72 0.0 30.7 46.1#



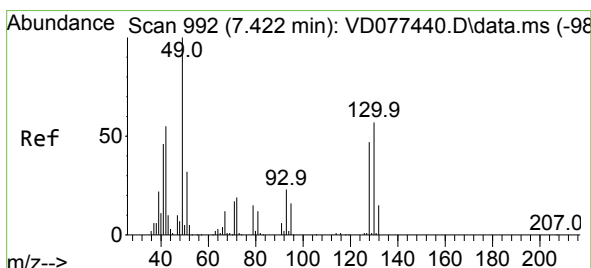
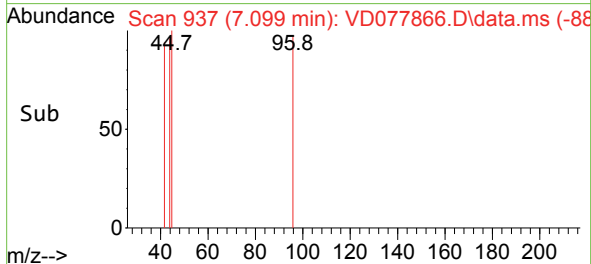
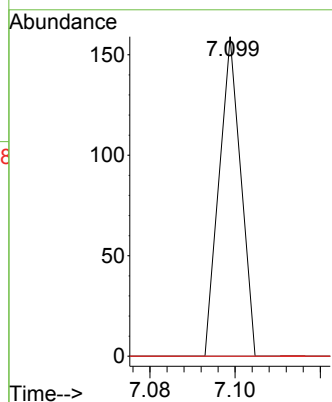


#27
 cis-1,2-Dichloroethene
 Concen: 1.041 ug/l
 RT: 7.099 min Scan# 91
 Delta R.T. 0.018 min
 Lab File: VD077866.D
 Acq: 13 Dec 2023 16:58

Instrument :
 MSVOA_D
 ClientSampleId :

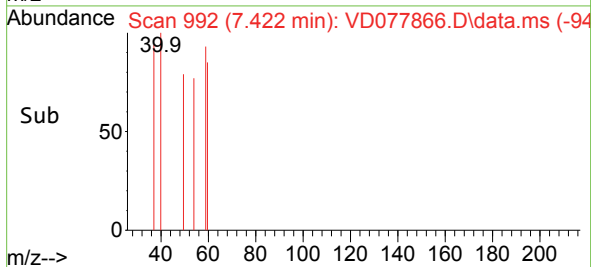
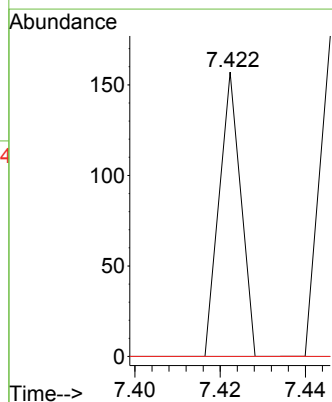
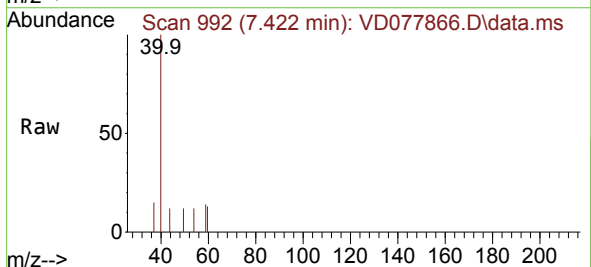


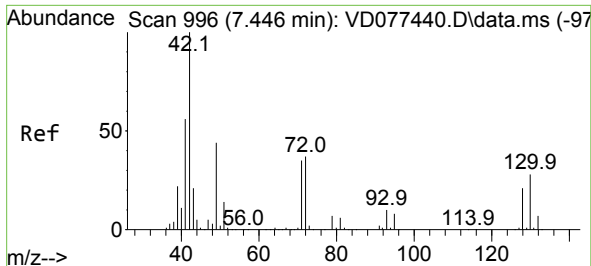
Tgt Ion: 96	Resp:	56
Ion	Ratio	Lower Upper
96	100	
61	0.0	0.0 239.2
98	0.0	0.0 128.6



#28
 Bromochloromethane
 Concen: 1.584 ug/l
 RT: 7.422 min Scan# 992
 Delta R.T. 0.000 min
 Lab File: VD077866.D
 Acq: 13 Dec 2023 16:58

Tgt Ion: 49	Resp:	55
Ion	Ratio	Lower Upper
49	100	
129	0.0	0.0 6.0
130	0.0	83.2 124.8#





#29

Tetrahydrofuran

Concen: 11.466 ug/l

RT: 7.358 min Scan# 91

Delta R.T. -0.088 min

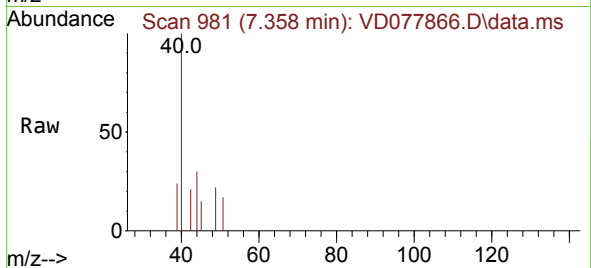
Lab File: VD077866.D

Acq: 13 Dec 2023 16:58

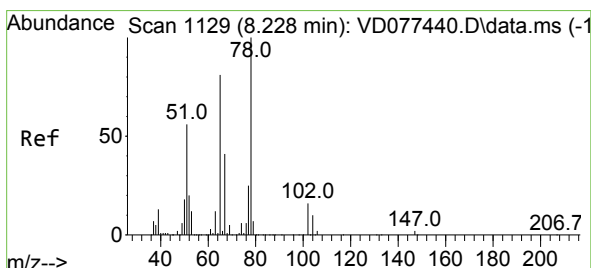
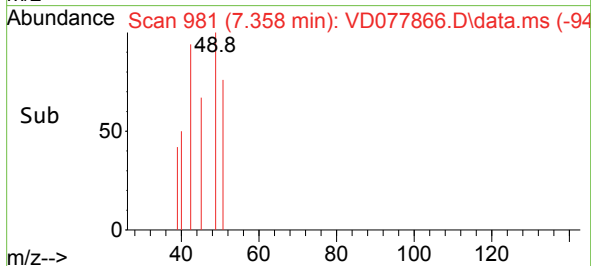
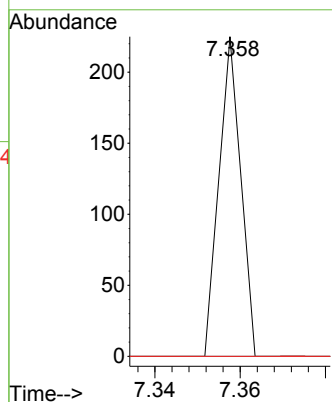
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	42	Resp:	79
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: 42.640 ug/l

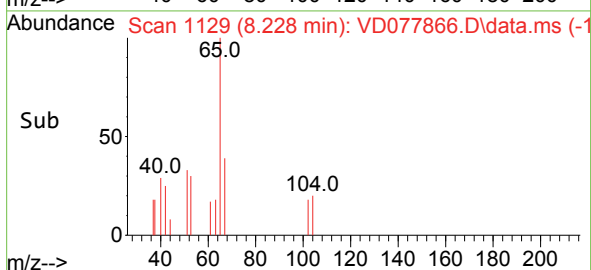
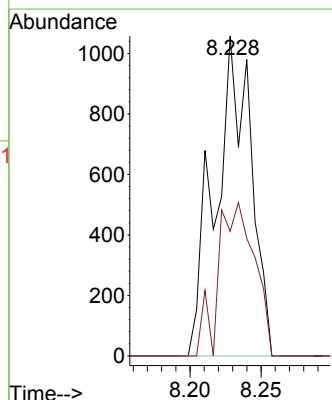
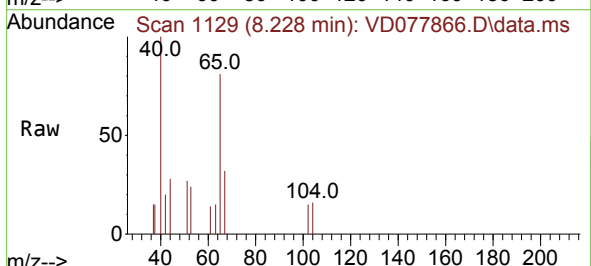
RT: 8.228 min Scan# 1129

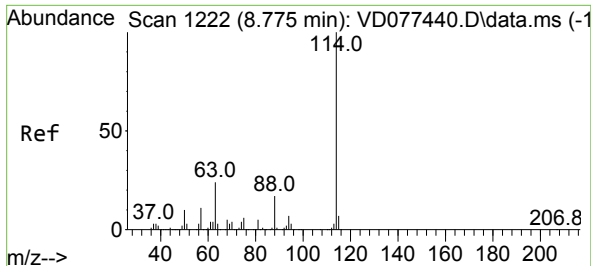
Delta R.T. 0.000 min

Lab File: VD077866.D

Acq: 13 Dec 2023 16:58

Tgt Ion:	65	Resp:	1845
Ion	Ratio	Lower	Upper
65	100		
67	48.8	0.0	115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD077866.D

Acq: 13 Dec 2023 16:58

Instrument :

MSVOA_D

ClientSampleId :

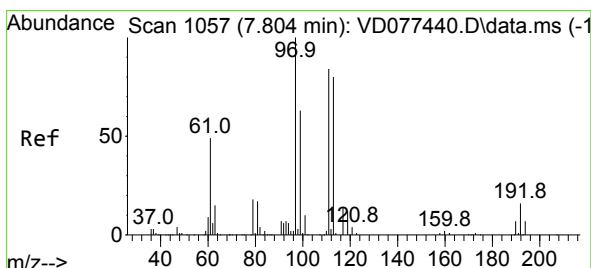
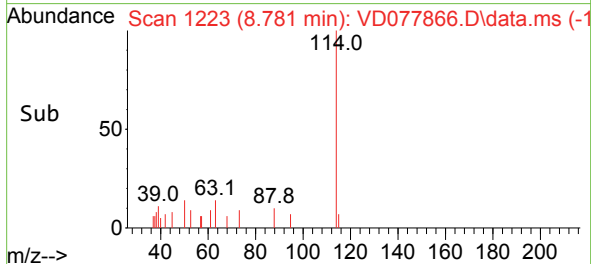
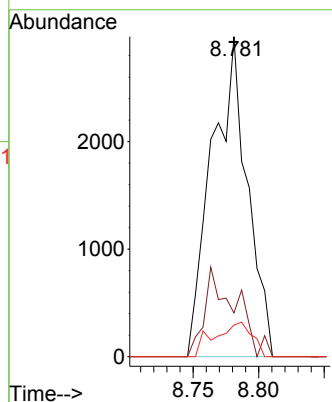
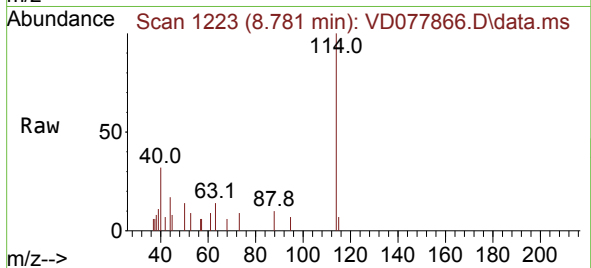
Tgt Ion:114 Resp: 5585

Ion Ratio Lower Upper

114 100

63 13.7 0.0 33.4

88 9.9 0.0 26.2



#35

Dibromofluoromethane

Concen: 48.158 ug/l

RT: 7.799 min Scan# 1056

Delta R.T. -0.005 min

Lab File: VD077866.D

Acq: 13 Dec 2023 16:58

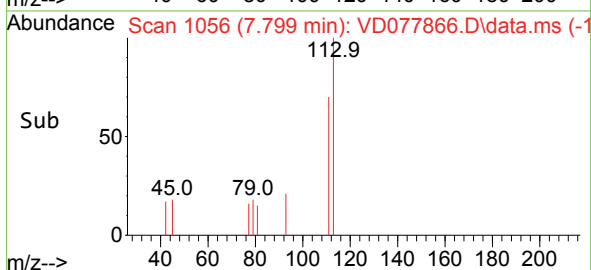
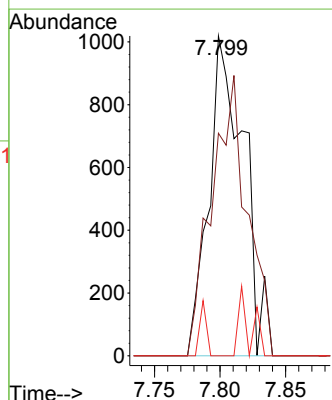
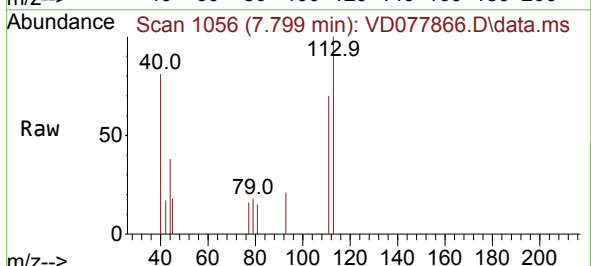
Tgt Ion:113 Resp: 1884

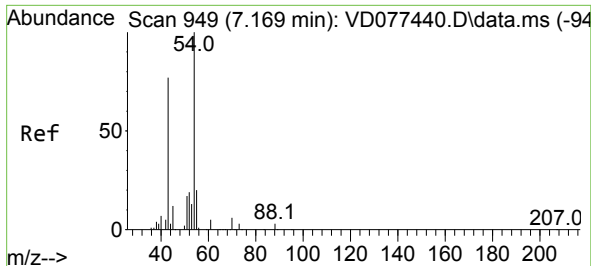
Ion Ratio Lower Upper

113 100

111 89.3 84.7 127.1

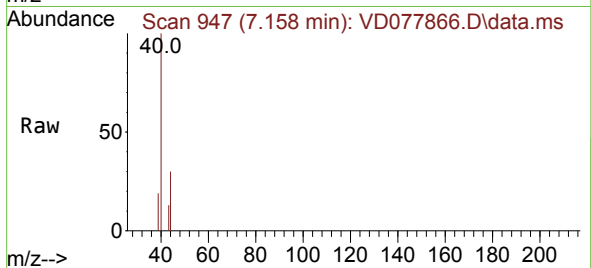
192 7.1 16.8 25.2#



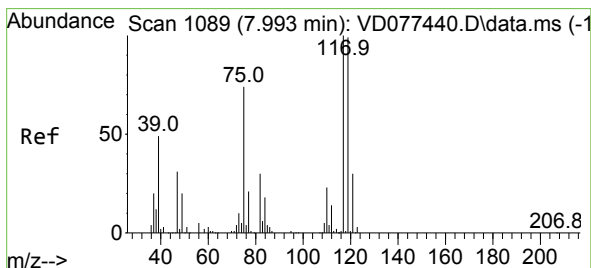
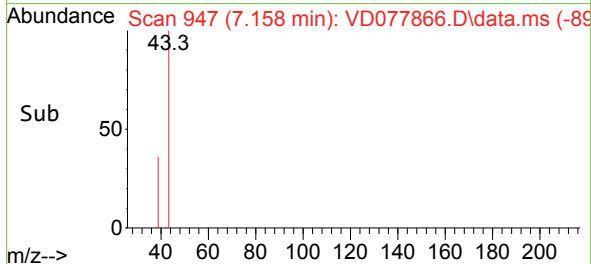
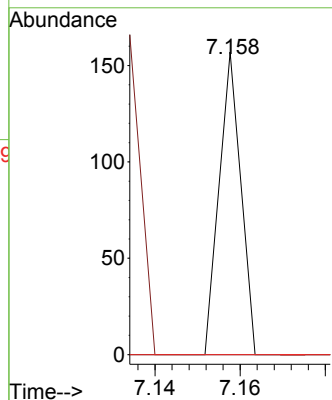


#37
Ethyl Acetate
Concen: 2.254 ug/l
RT: 7.158 min Scan# 947
Delta R.T. -0.011 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

Instrument :
MSVOA_D
ClientSampleId :

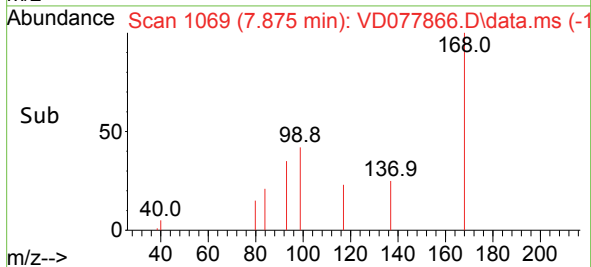
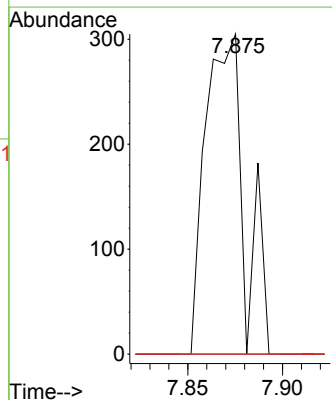
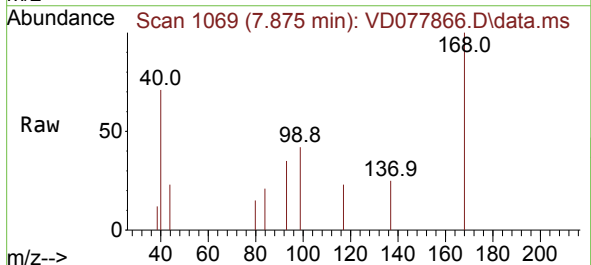


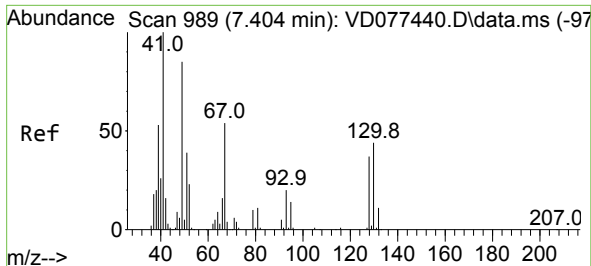
Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
61 0.0 14.9 22.3#
70 0.0 10.0 15.0#



#38
Carbon Tetrachloride
Concen: 7.005 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.118 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

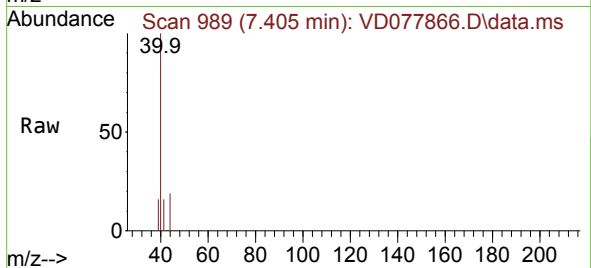
Tgt Ion: 117 Resp: 437
Ion Ratio Lower Upper
117 100
119 0.0 78.0 117.0#
121 0.0 24.2 36.2#



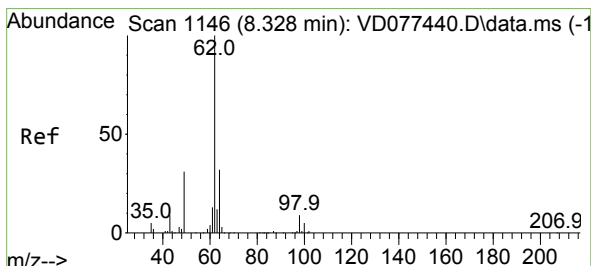
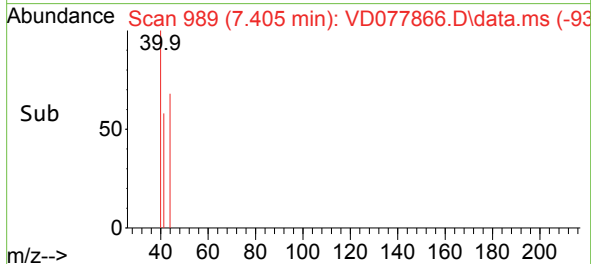
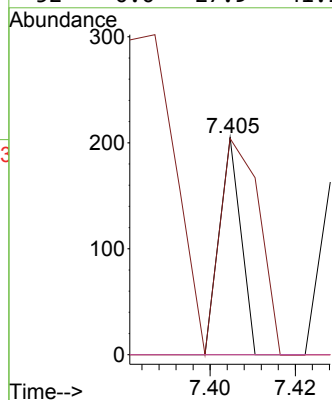


#41
Methacrylonitrile
Concen: 5.806 ug/l
RT: 7.405 min Scan# 91
Delta R.T. 0.001 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

Instrument :
MSVOA_D
ClientSampleId :

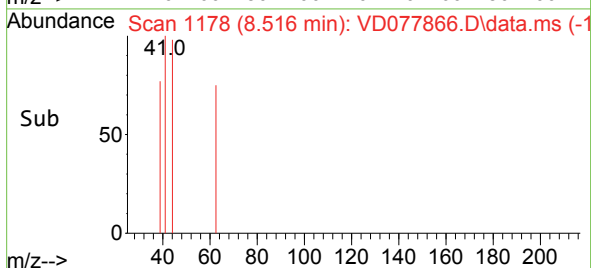
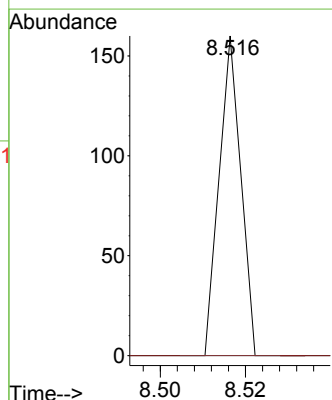
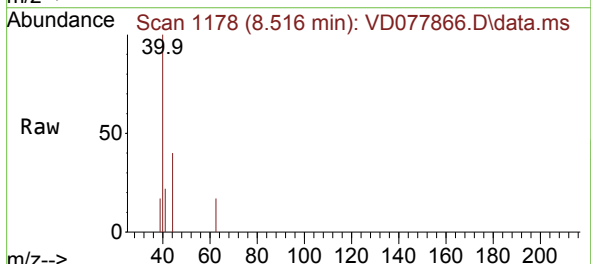


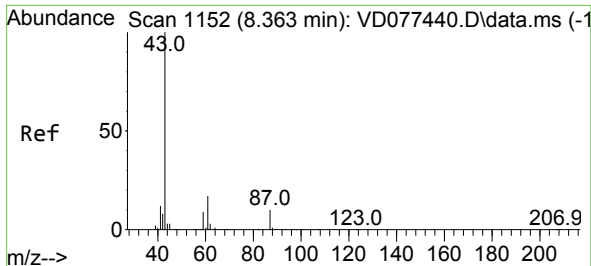
Tgt Ion:	41	Resp:	72
Ion	Ratio	Lower	Upper
41	100		
39	181.9	34.0	51.0#
67	0.0	77.0	115.4#
52	0.0	27.9	41.9#



#42
1,2-Dichloroethane
Concen: 1.216 ug/l
RT: 8.516 min Scan# 1178
Delta R.T. 0.188 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

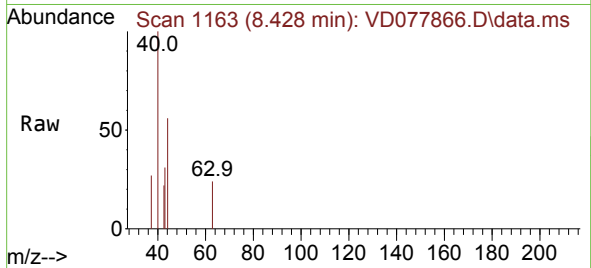
Tgt Ion:	62	Resp:	56
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	25.4



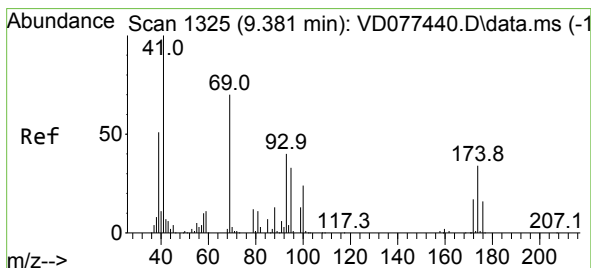
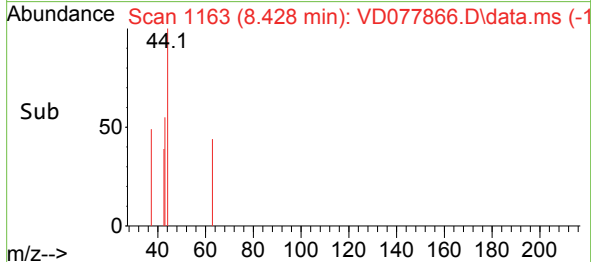
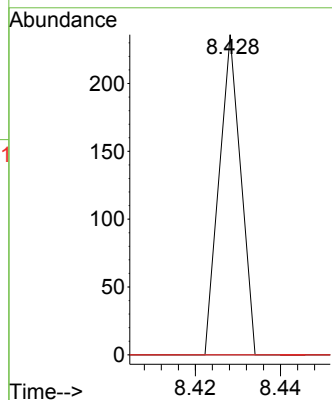


#43
Isopropyl Acetate
Concen: 1.914 ug/l
RT: 8.428 min Scan# 1152
Delta R.T. 0.065 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

Instrument :
MSVOA_D
ClientSampleId :

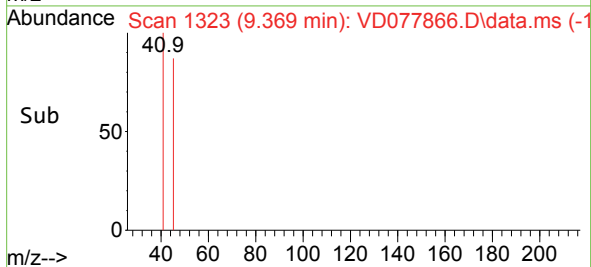
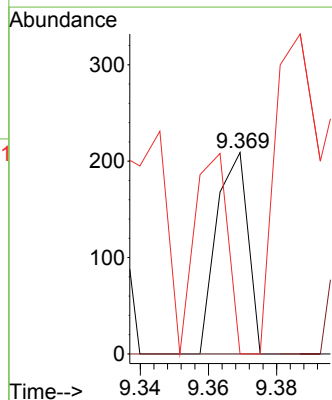
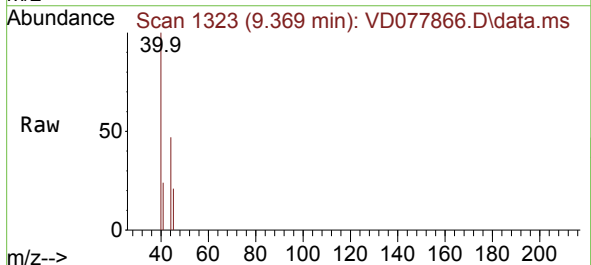


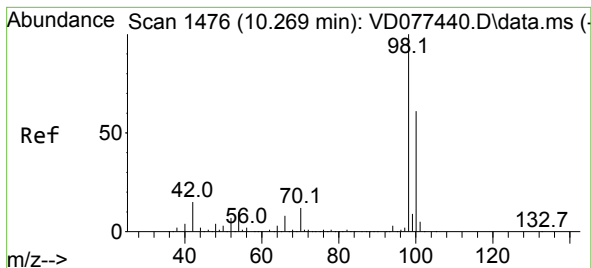
Tgt Ion: 43 Resp: 83
Ion Ratio Lower Upper
43 100
61 0.0 31.4 47.0#
87 0.0 14.9 22.3#



#48
Methyl methacrylate
Concen: 5.394 ug/l
RT: 9.369 min Scan# 1323
Delta R.T. -0.012 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

Tgt Ion: 41 Resp: 133
Ion Ratio Lower Upper
41 100
69 0.0 102.2 153.2#
39 104.5 41.4 62.2#





#50

Toluene-d8

Concen: 40.980 ug/l

RT: 10.275 min Scan# 1477

Delta R.T. 0.006 min

Lab File: VD077866.D

Acq: 13 Dec 2023 16:58

Instrument :

MSVOA_D

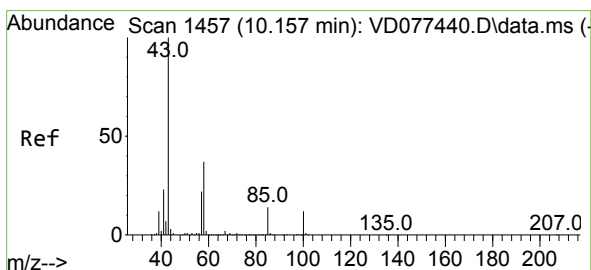
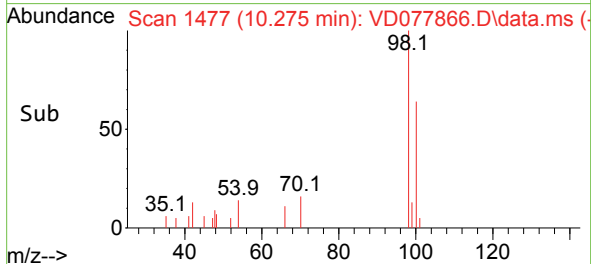
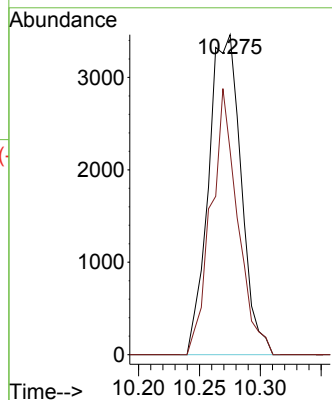
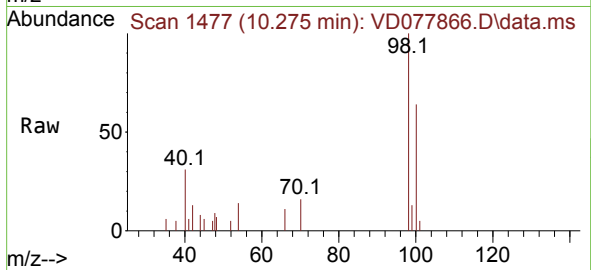
ClientSampleId :

Tgt Ion: 98 Resp: 6421

Ion Ratio Lower Upper

98 100

100 68.2 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 2.982 ug/l

RT: 10.163 min Scan# 1458

Delta R.T. 0.006 min

Lab File: VD077866.D

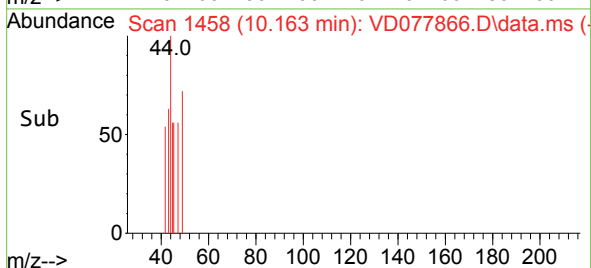
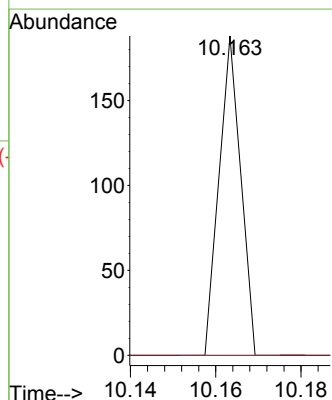
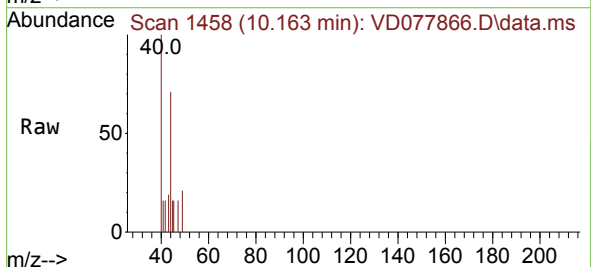
Acq: 13 Dec 2023 16:58

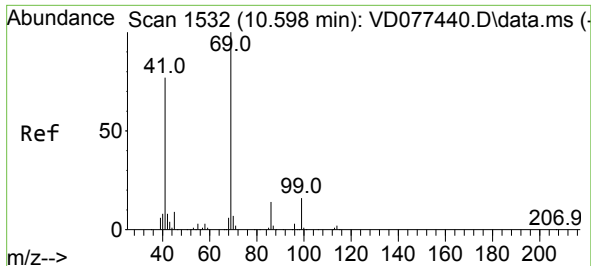
Tgt Ion: 43 Resp: 66

Ion Ratio Lower Upper

43 100

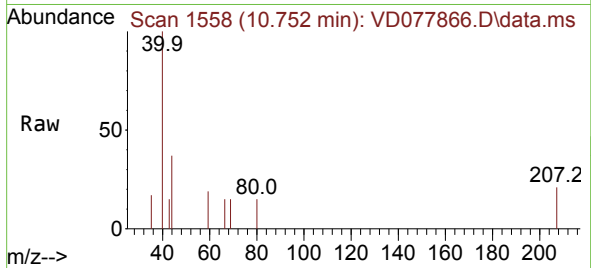
58 0.0 38.9 58.3#



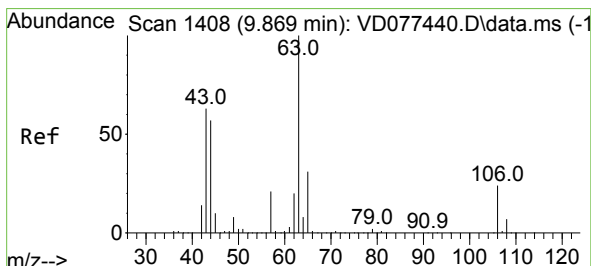
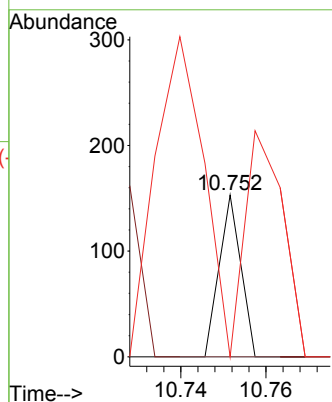
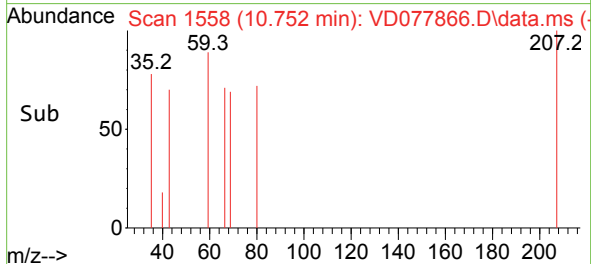


#56
Ethyl methacrylate
Concen: 1.960 ug/l
RT: 10.752 min Scan# 1558
Delta R.T. 0.154 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

Instrument :
MSVOA_D
ClientSampleId :

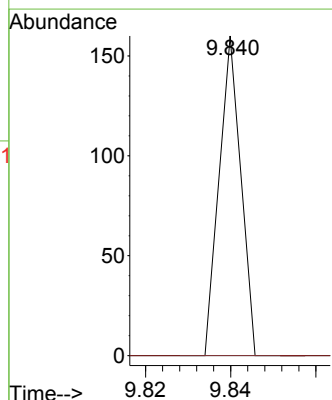
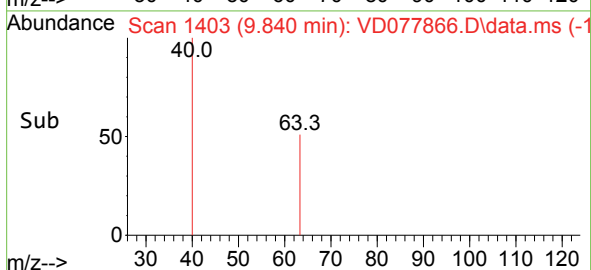
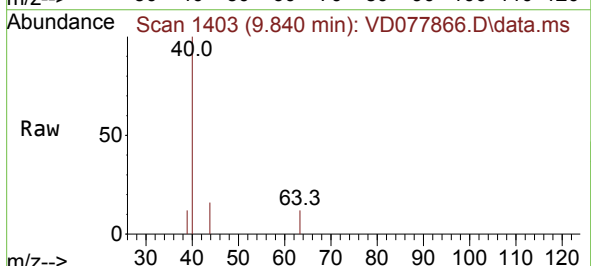


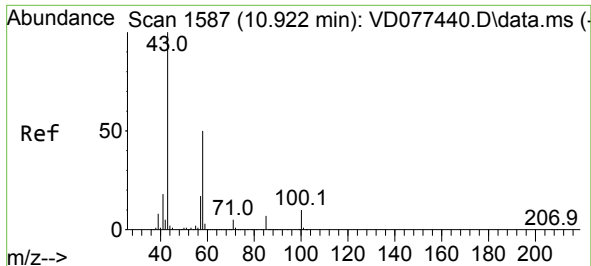
Tgt Ion: 69 Resp: 54
Ion Ratio Lower Upper
69 100
41 0.0 39.1 58.7#
39 244.4 20.0 30.0#



#58
2-Chloroethyl Vinyl ether
Concen: 3.565 ug/l
RT: 9.840 min Scan# 1403
Delta R.T. -0.029 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

Tgt Ion: 63 Resp: 56
Ion Ratio Lower Upper
63 100
106 0.0 25.3 37.9#

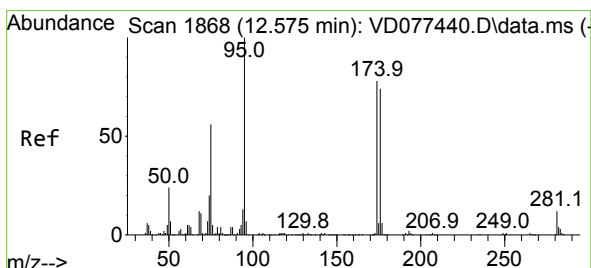
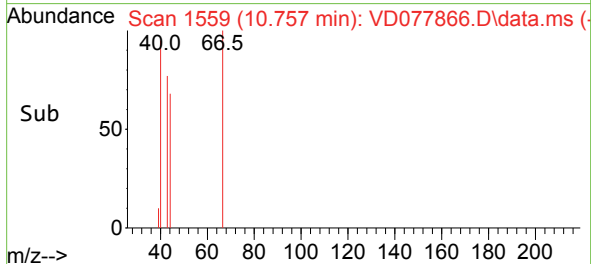
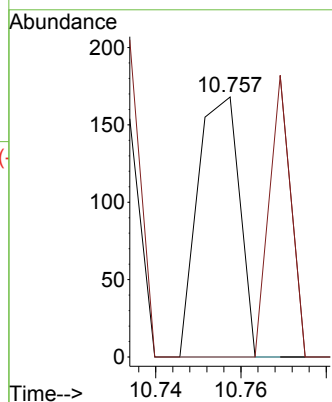
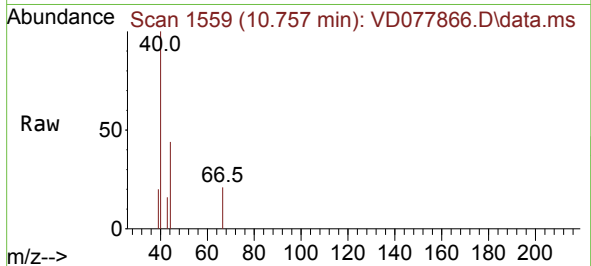




#59
2-Hexanone
Concen: 6.207 ug/l
RT: 10.757 min Scan# 114
Delta R.T. -0.165 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

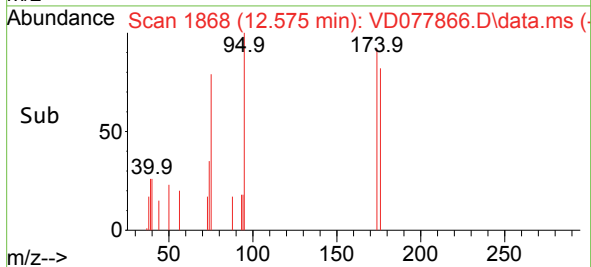
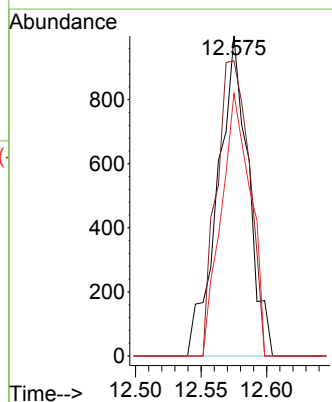
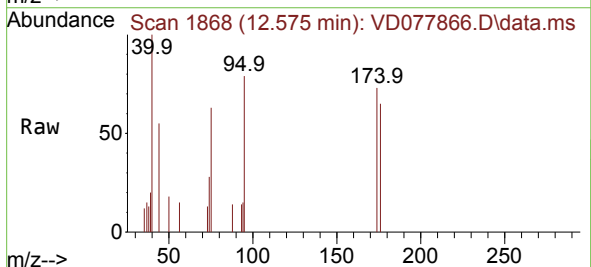
Instrument :
MSVOA_D
ClientSampleId :

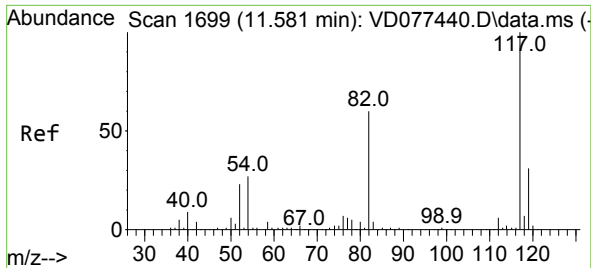
Tgt Ion: 43 Resp: 114
Ion Ratio Lower Upper
43 100
58 56.1 34.1 102.2



#62
4-Bromofluorobenzene
Concen: 34.582 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

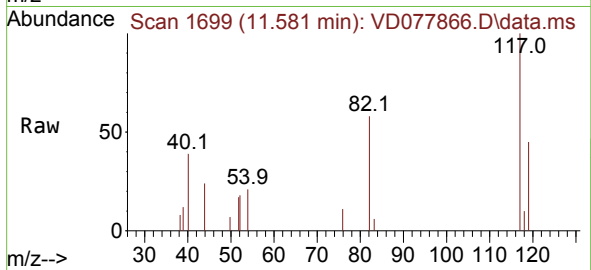
Tgt Ion: 95 Resp: 1620
Ion Ratio Lower Upper
95 100
174 98.5 0.0 201.8
176 78.8 0.0 191.8



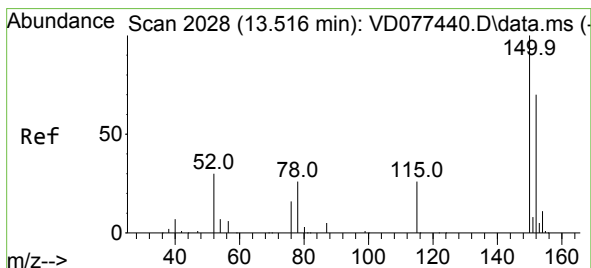
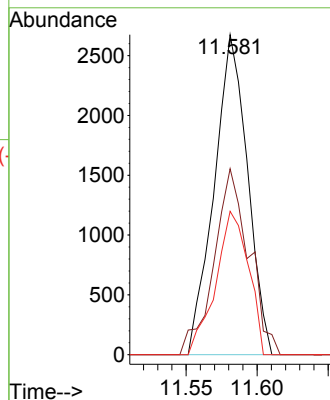
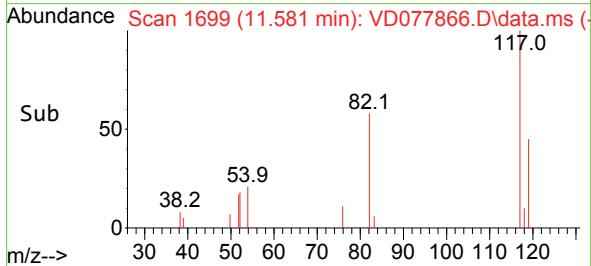


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

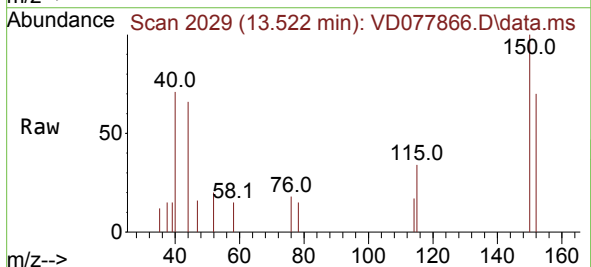
Instrument :
MSVOA_D
ClientSampleId :



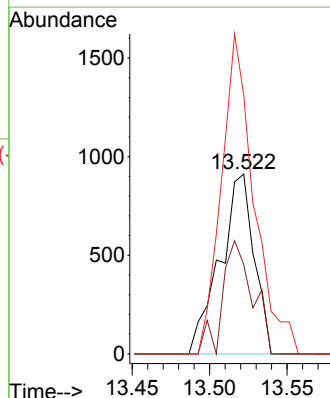
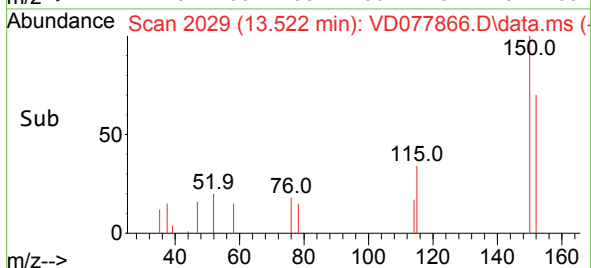
Tgt Ion:117 Resp: 4365
Ion Ratio Lower Upper
117 100
82 58.1 38.3 57.5#
119 44.8 25.0 37.4#

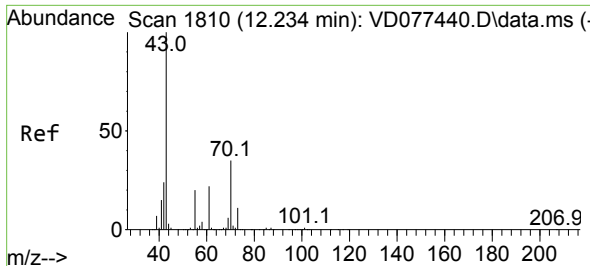


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.522 min Scan# 2029
Delta R.T. 0.006 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58



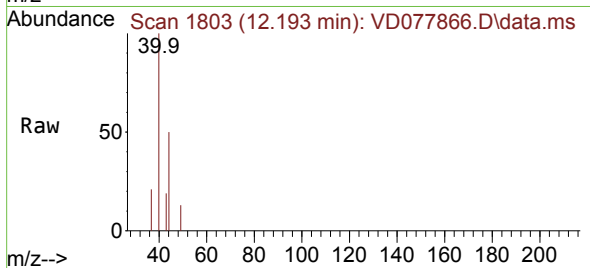
Tgt Ion:152 Resp: 1393
Ion Ratio Lower Upper
152 100
115 55.4 27.1 81.3
150 170.6 0.0 353.6



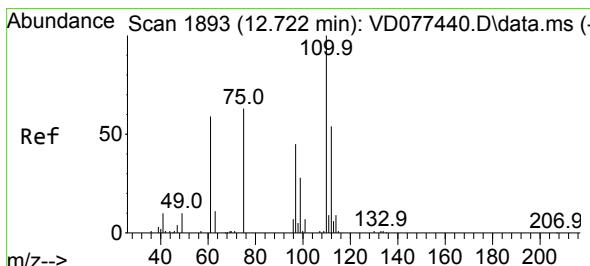
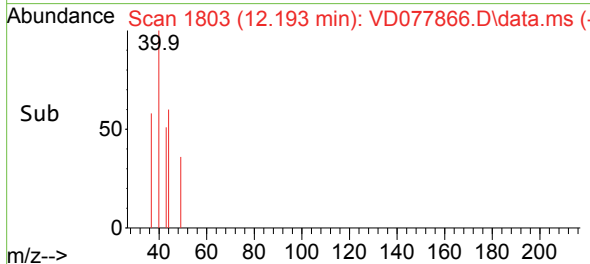
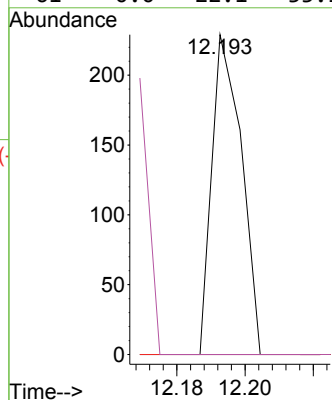


#74
N-amy1 acetate
Concen: 6.650 ug/l
RT: 12.193 min Scan# 1803
Delta R.T. -0.041 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

Instrument :
MSVOA_D
ClientSampleId :

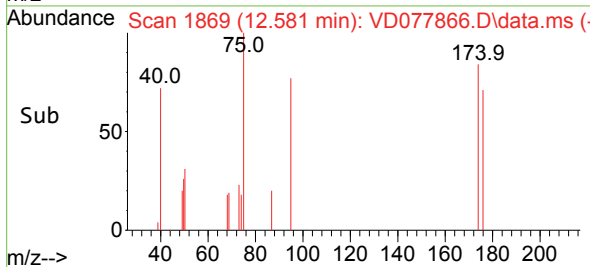
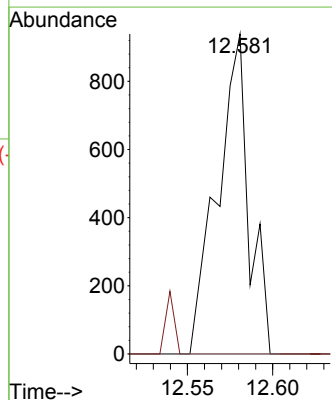
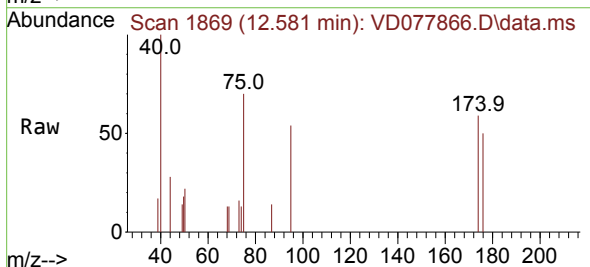


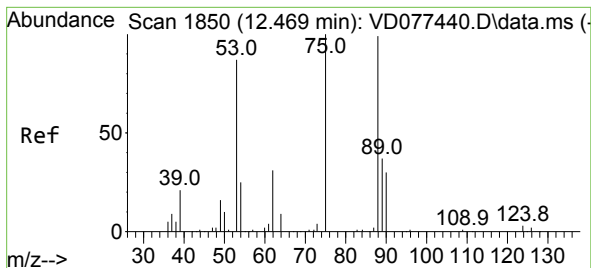
Tgt Ion: 43 Resp: 138
Ion Ratio Lower Upper
43 100
70 0.0 45.0 67.4#
55 0.0 23.8 35.6#
61 0.0 22.1 33.1#



#76
1,2,3-Trichloropropane
Concen: 100.180 ug/l
RT: 12.581 min Scan# 1869
Delta R.T. -0.141 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

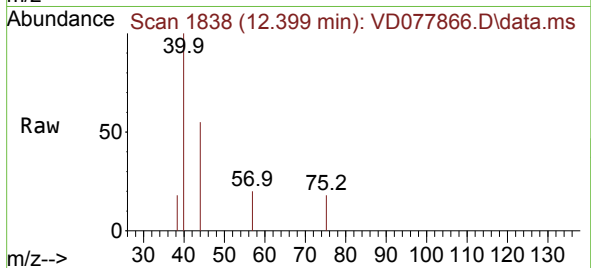
Tgt Ion: 75 Resp: 1212
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



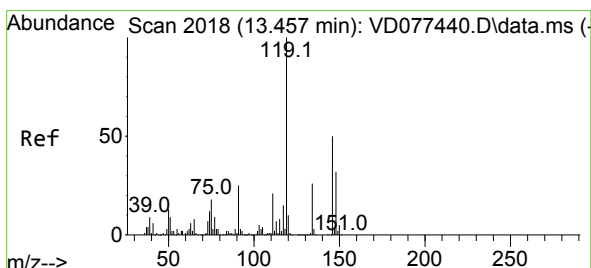
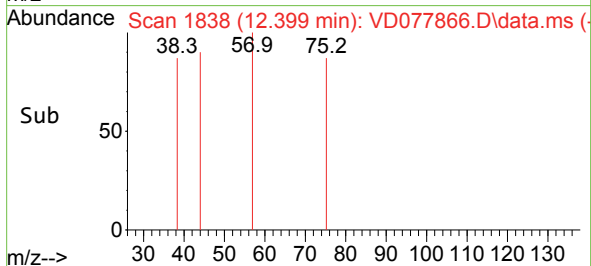
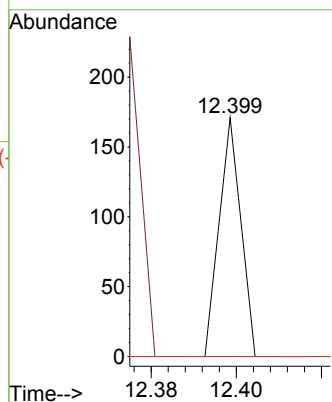


#81
trans-1,4-Dichloro-2-butene
Concen: 10.048 ug/l
RT: 12.399 min Scan# 1838
Delta R.T. -0.070 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

Instrument :
MSVOA_D
ClientSampleId :

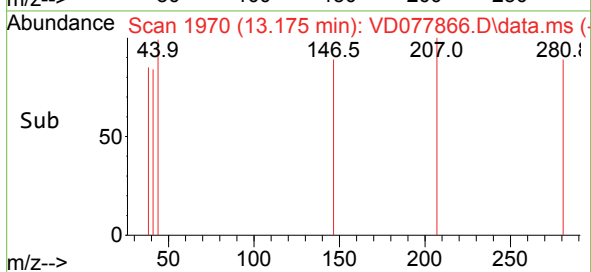
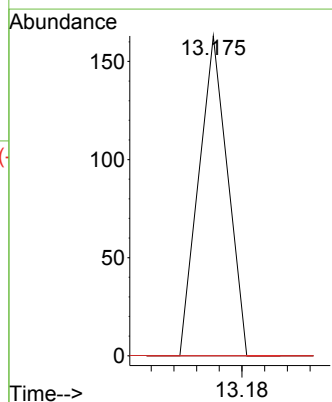
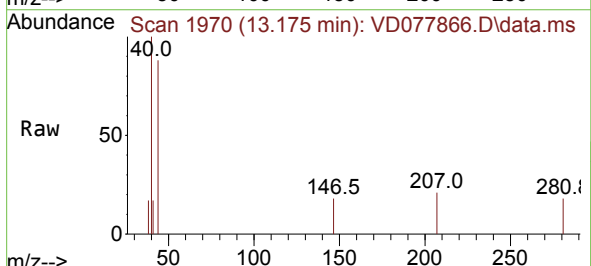


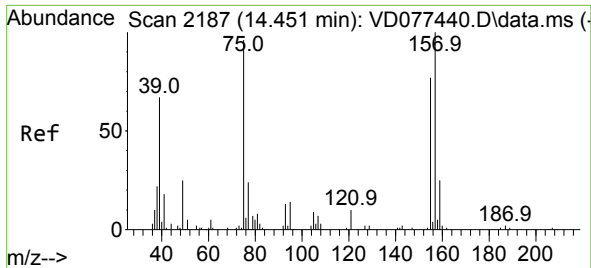
Tgt Ion: 75 Resp: 60
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#



#87
1,3-Dichlorobenzene
Concen: 1.142 ug/l
RT: 13.175 min Scan# 1970
Delta R.T. -0.282 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

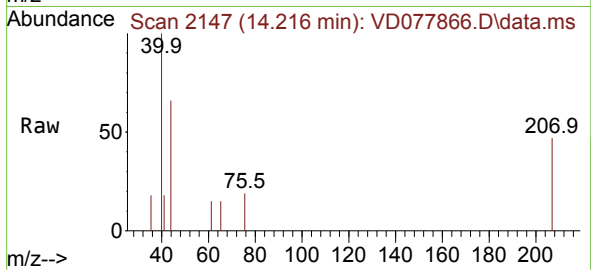
Tgt Ion: 146 Resp: 58
Ion Ratio Lower Upper
146 100
111 0.0 17.9 53.8#
148 0.0 32.3 96.8#





#92
1,2-Dibromo-3-Chloropropane
Concen: 25.010 ug/l
RT: 14.216 min Scan# 21
Delta R.T. -0.235 min
Lab File: VD077866.D
Acq: 13 Dec 2023 16:58

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 75 Resp: 68
Ion Ratio Lower Upper
75 100
155 0.0 47.9 143.8#
157 0.0 59.9 179.7#

