

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110623\
 Data File : VN079933.D
 Acq On : 06 Nov 2023 19:21
 Operator : JC\MD
 Sample : PB156885ZHE#16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 07 04:53:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

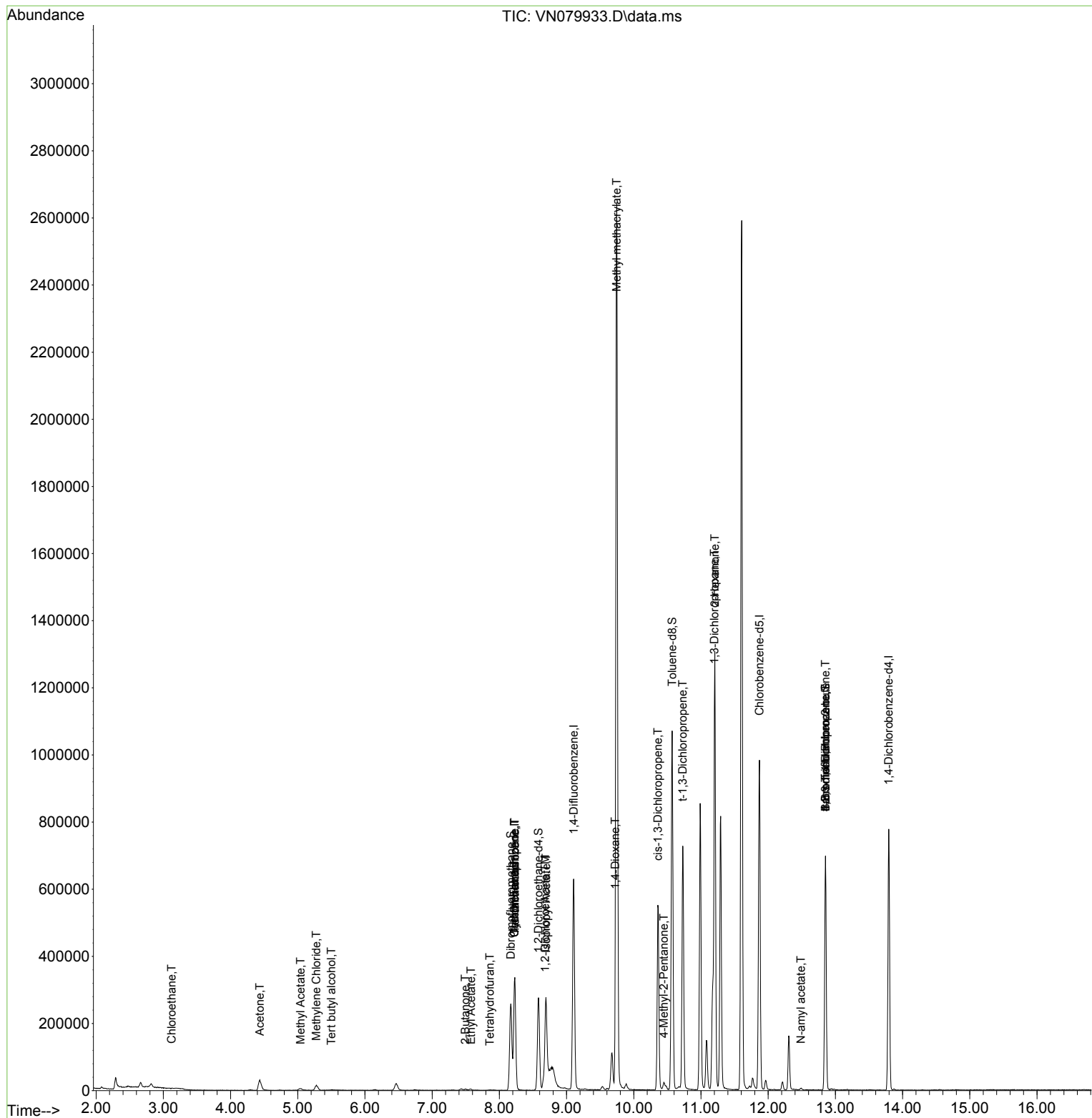
Internal Standards						
1) Pentafluorobenzene	8.230	168	232727	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	512584	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	553579	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	198251	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	225822	63.689	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 127.380%#			
35) Dibromofluoromethane	8.171	113	188748	52.027	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.060%			
50) Toluene-d8	10.571	98	707642	52.985	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.980%			
62) 4-Bromofluorobenzene	12.853	95	234222	52.880	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.760%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	916	Below Cal		93
6) Chloroethane	3.124	64	727	0.251 ug/l #		43
11) Tert butyl alcohol	5.500	59	359	0.793 ug/l #		72
16) Acetone	4.436	43	60297	48.414 ug/l #		88
18) Methyl Acetate	5.042	43	10864	1.823 ug/l #		82
20) Methylene Chloride	5.277	84	10565	3.362 ug/l #		83
25) 2-Butanone	7.494	43	6662	3.653 ug/l #		68
29) Tetrahydrofuran	7.859	42	1010	0.851 ug/l #		37
31) Cyclohexane	8.224	56	6336	1.352 ug/l #		37
36) 1,1-Dichloropropene	8.230	75	21575	4.165 ug/l #		48
37) Ethyl Acetate	7.577	43	5929	1.248 ug/l #		79
38) Carbon Tetrachloride	8.224	117	25057	4.800 ug/l #		17
42) 1,2-Dichloroethane	8.683	62	1681	0.310 ug/l #		73
43) Isopropyl Acetate	8.694	43	351491	42.190 ug/l #		74
48) Methyl methacrylate	9.747	41	242028	66.324 ug/l #		29
49) 1,4-Dioxane	9.724	88	83	1.287 ug/l #		30
51) 4-Methyl-2-Pentanone	10.447	43	23536	5.018 ug/l #		65
53) t-1,3-Dichloropropene	10.729	75	1897	0.335 ug/l #		70
54) cis-1,3-Dichloropropene	10.359	75	92144	14.936 ug/l #		74
57) 1,3-Dichloropropane	11.200	76	12586	1.930 ug/l #		42
59) 2-Hexanone	11.206	43	157659	43.939 ug/l #		47
71) Bromoform	12.853	173	1915	0.623 ug/l #		1
74) N-amyl acetate	12.488	43	2428	0.370 ug/l #		43
76) 1,2,3-Trichloropropane	12.853	75	126569	27.194 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	126569	73.988 ug/l #		15

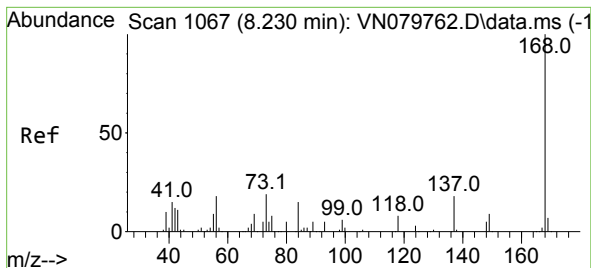
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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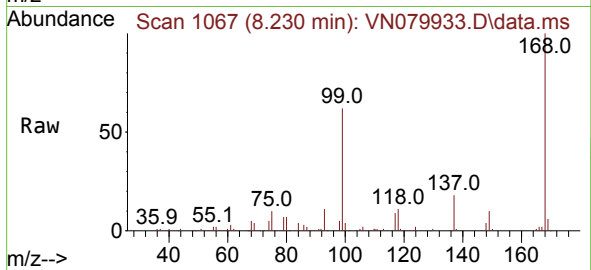
Quant Time: Nov 07 04:53:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
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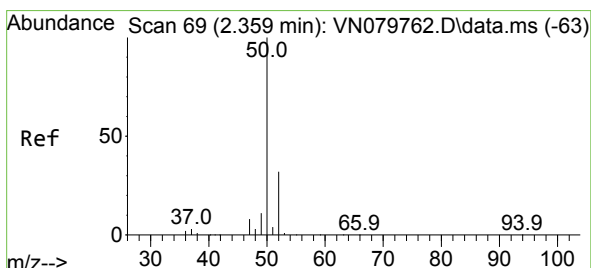
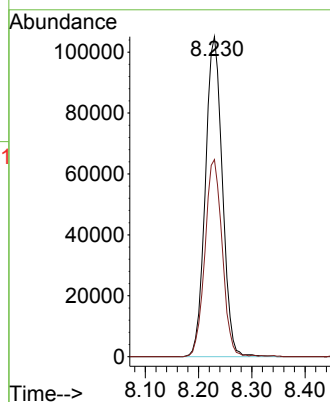
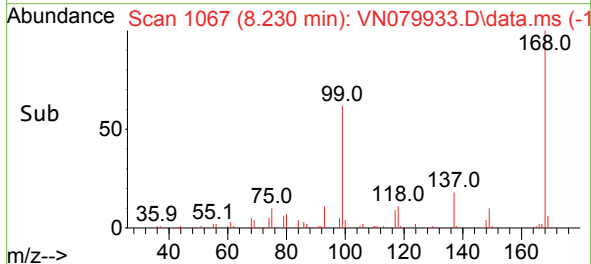


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. 0.001 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

Instrument :
MSVOA_N
ClientSampleId :

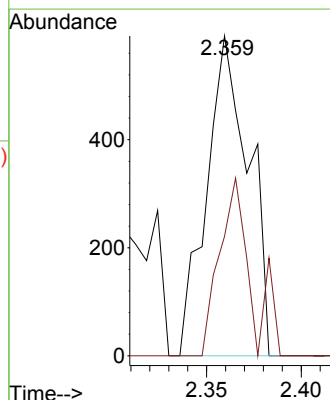
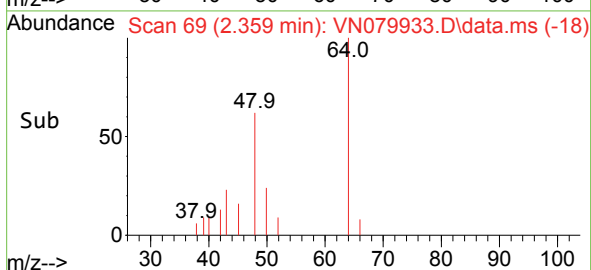
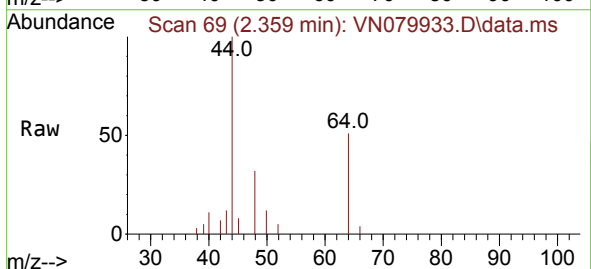


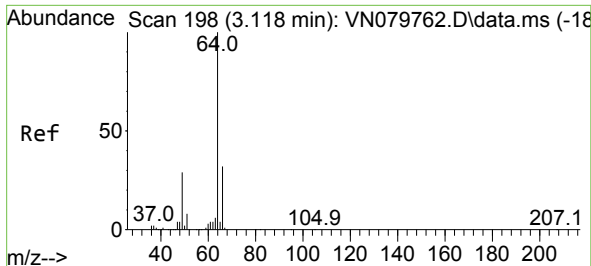
Tgt Ion:168 Resp: 232727
Ion Ratio Lower Upper
168 100
99 61.6 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

Tgt Ion: 50 Resp: 916
Ion Ratio Lower Upper
50 100
52 37.3 26.5 39.7

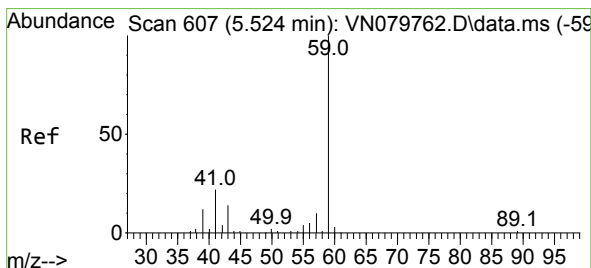
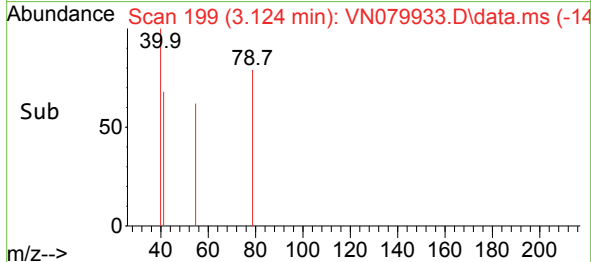
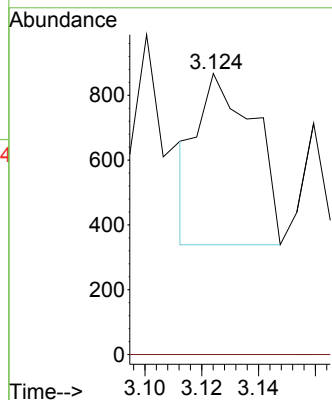
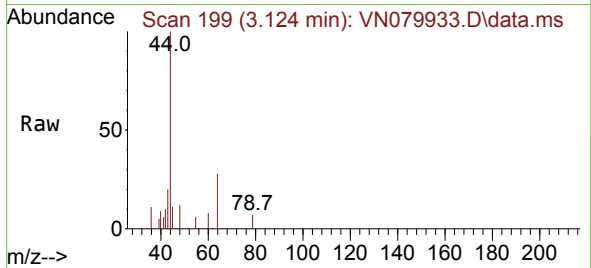




#6
Chloroethane
Concen: 0.251 ug/l
RT: 3.124 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

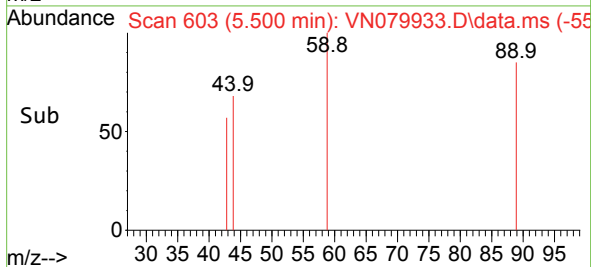
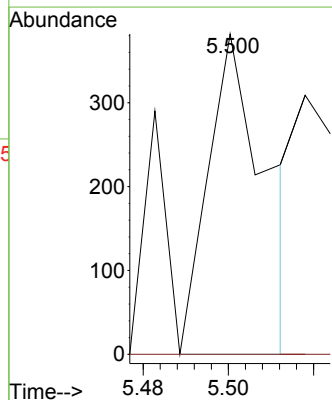
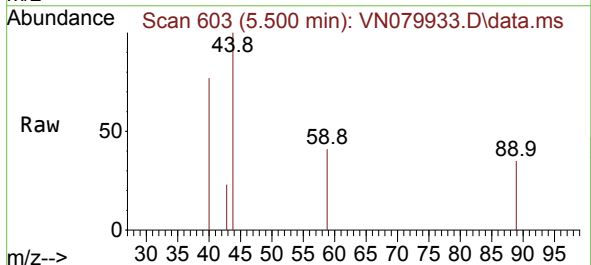
Instrument :
MSVOA_N
ClientSampleId :

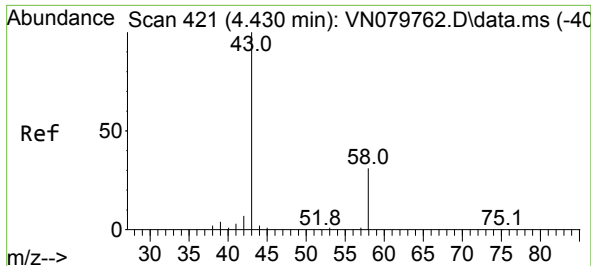
Tgt Ion: 64 Resp: 727
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.793 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.018 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

Tgt Ion: 59 Resp: 359
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

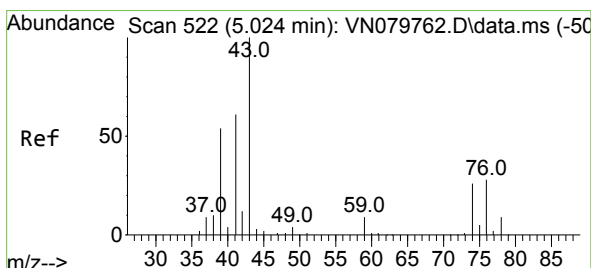
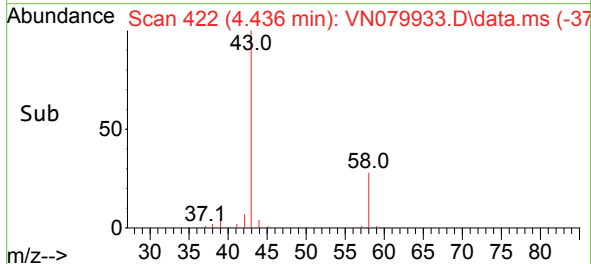
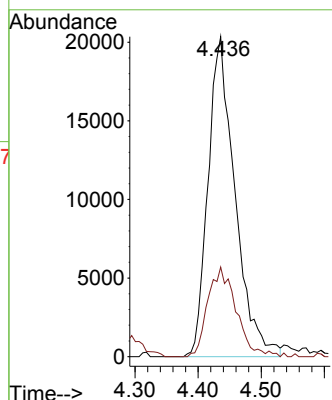
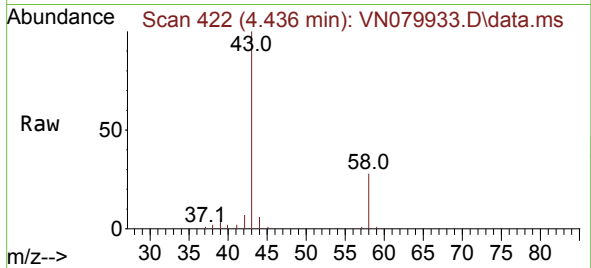




#16
Acetone
Concen: 48.414 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

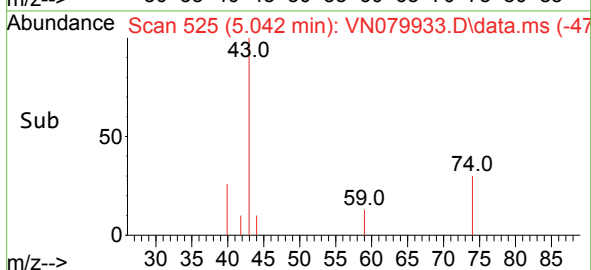
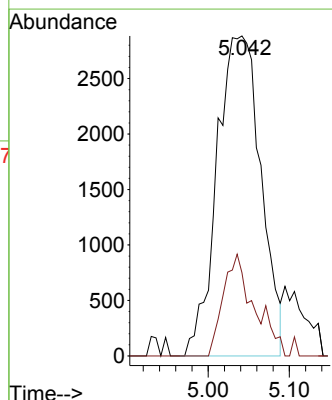
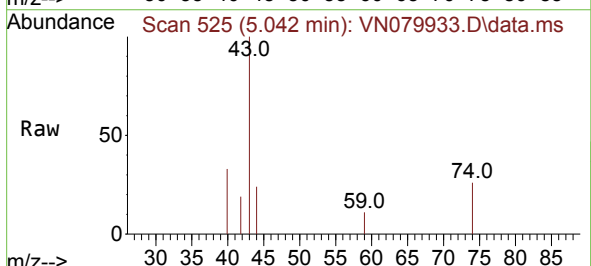
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 43 Resp: 60297
Ion Ratio Lower Upper
43 100
58 28.0 28.0 42.0#



#18
Methyl Acetate
Concen: 1.823 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.018 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

Tgt Ion: 43 Resp: 10864
Ion Ratio Lower Upper
43 100
74 22.5 26.2 39.4#





#20

Methylene Chloride

Concen: 3.362 ug/l

RT: 5.277 min Scan# 5

Delta R.T. 0.006 min

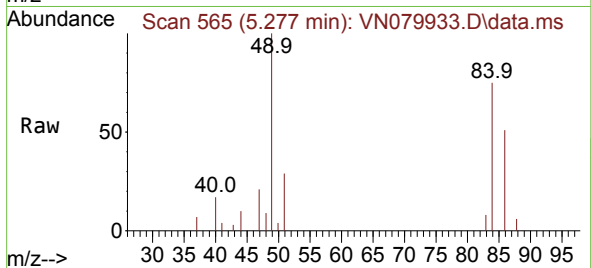
Lab File: VN079933.D

Acq: 06 Nov 2023 19:21

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 10565

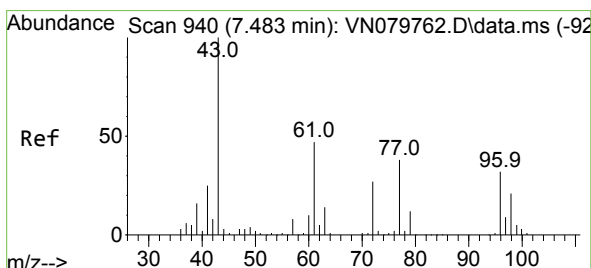
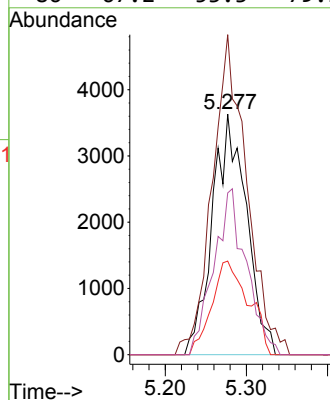
Ion Ratio Lower Upper

84 100

49 127.8 79.7 119.5#

51 38.9 25.2 37.8#

86 67.2 53.3 79.9



#25

2-Butanone

Concen: 3.653 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.006 min

Lab File: VN079933.D

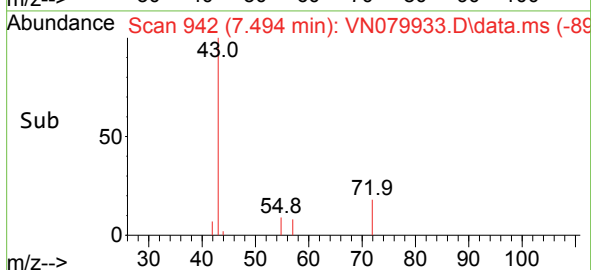
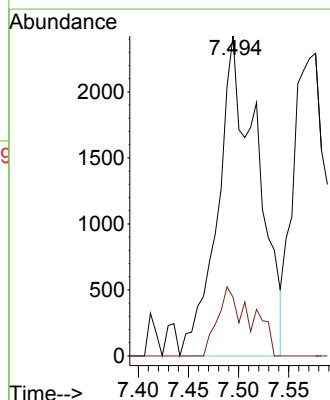
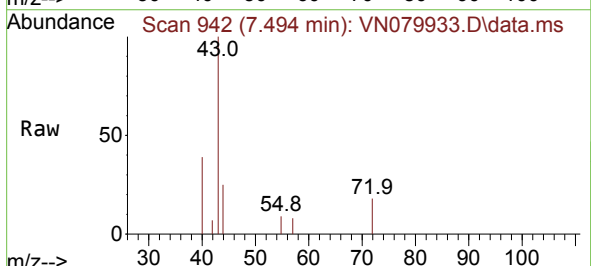
Acq: 06 Nov 2023 19:21

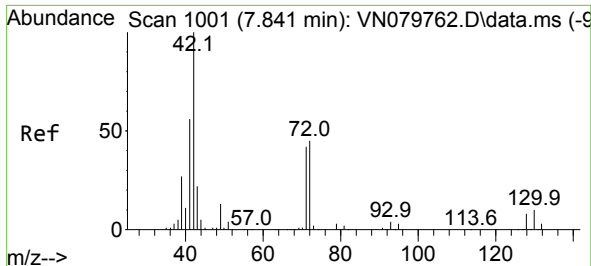
Tgt Ion: 43 Resp: 6662

Ion Ratio Lower Upper

43 100

72 18.4 30.2 45.2#

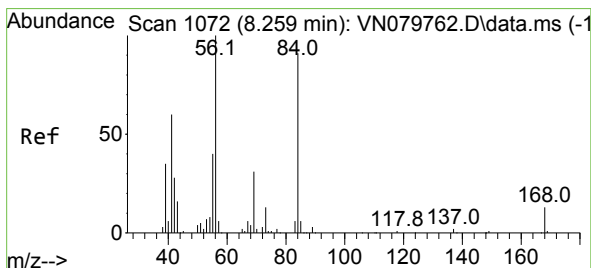
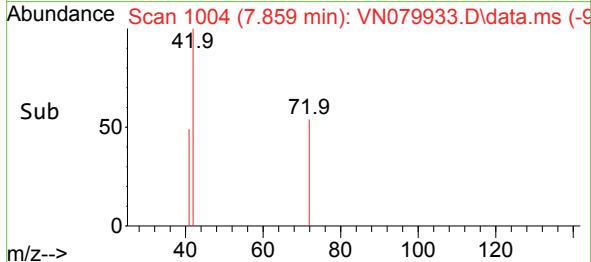
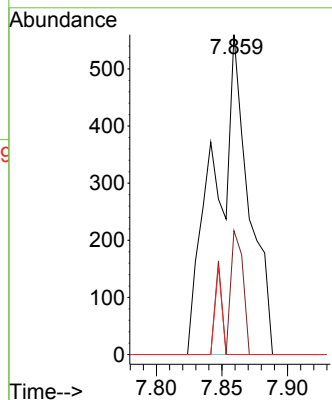
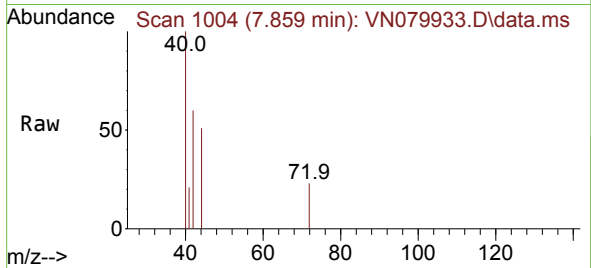




#29
Tetrahydrofuran
Concen: 0.851 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.018 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

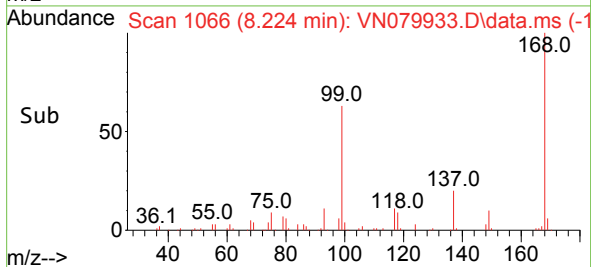
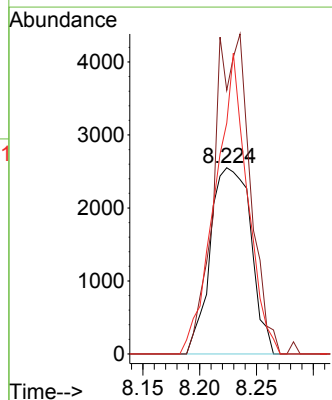
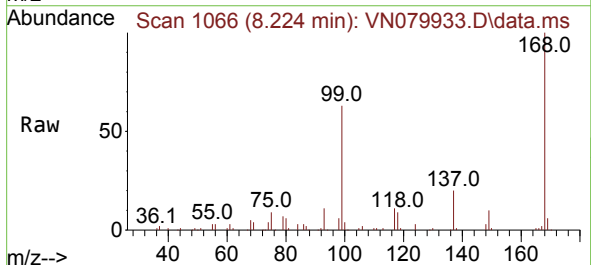
Instrument :
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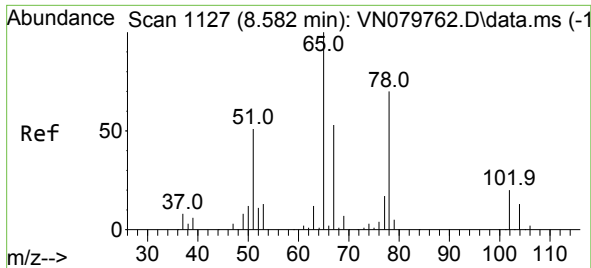
Tgt Ion: 42 Resp: 1010
Ion Ratio Lower Upper
42 100
72 19.4 49.8 74.6#
71 5.4 47.4 71.2#



#31
Cyclohexane
Concen: 1.352 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

Tgt Ion: 56 Resp: 6336
Ion Ratio Lower Upper
56 100
69 141.6 26.8 40.2#
84 124.0 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 63.689 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079933.D

Acq: 06 Nov 2023 19:21

Instrument :

MSVOA_N

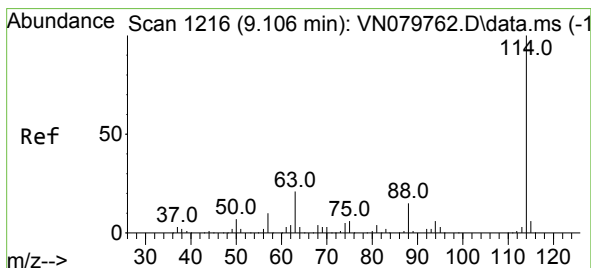
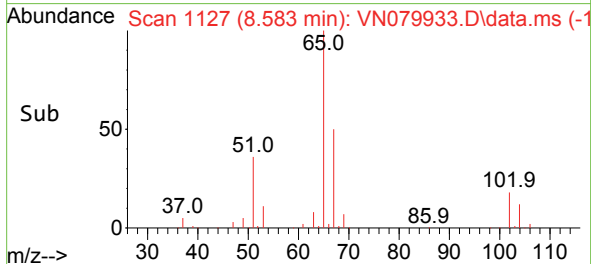
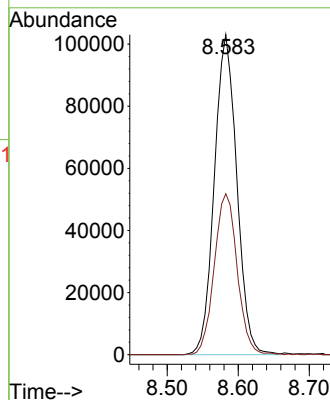
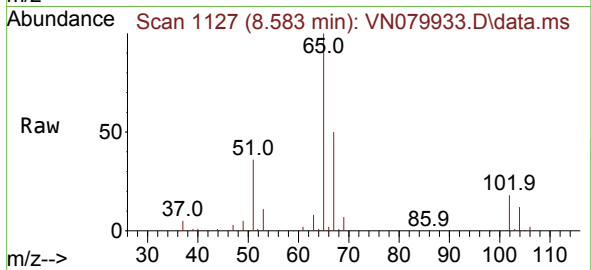
ClientSampleId :

Tgt Ion: 65 Resp: 225822

Ion Ratio Lower Upper

65 100

67 51.5 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079933.D

Acq: 06 Nov 2023 19:21

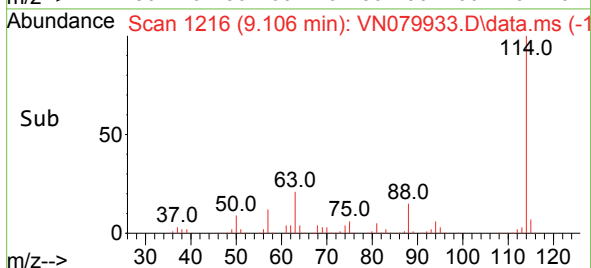
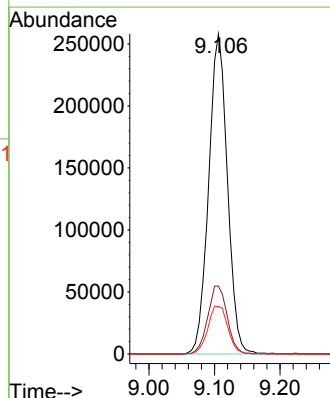
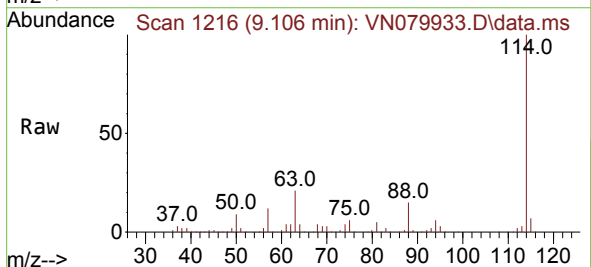
Tgt Ion: 114 Resp: 512584

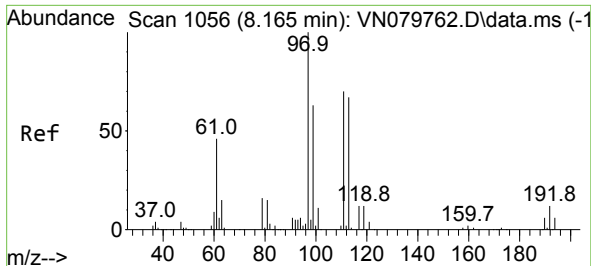
Ion Ratio Lower Upper

114 100

63 21.2 0.0 36.4

88 14.8 0.0 30.6





#35

Dibromofluoromethane

Concen: 52.027 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN079933.D

Acq: 06 Nov 2023 19:21

Instrument :

MSVOA_N

ClientSampleId :

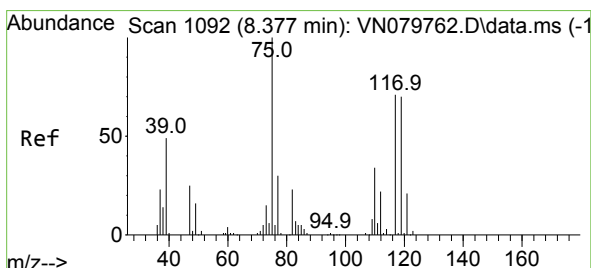
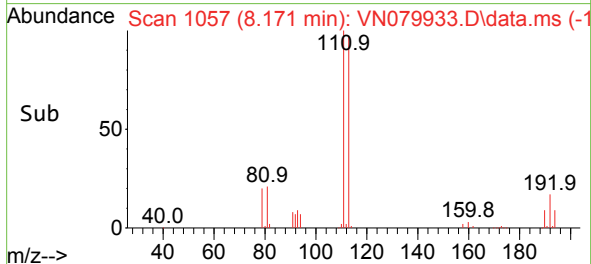
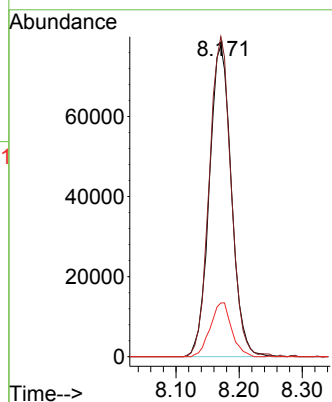
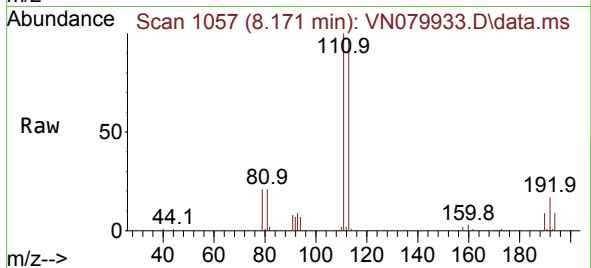
Tgt Ion:113 Resp: 188748

Ion Ratio Lower Upper

113 100

111 101.8 82.6 123.8

192 16.8 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.165 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079933.D

Acq: 06 Nov 2023 19:21

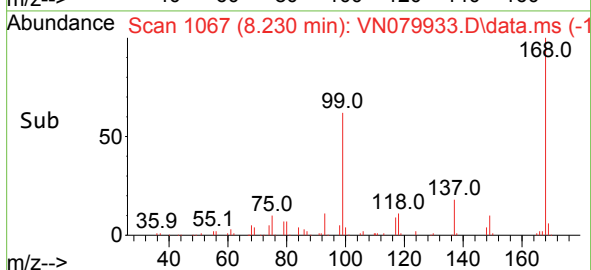
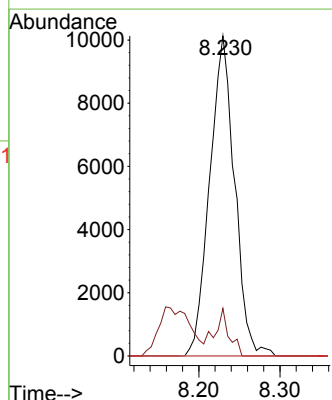
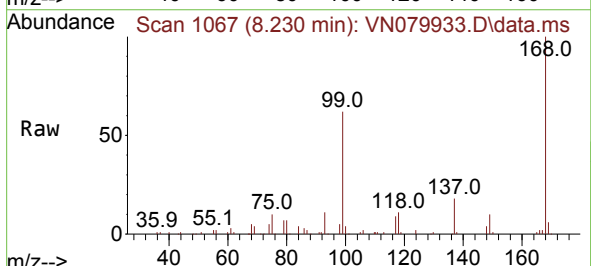
Tgt Ion: 75 Resp: 21575

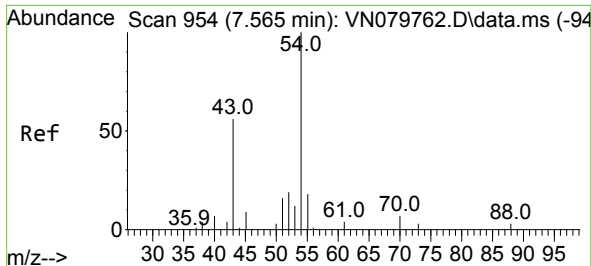
Ion Ratio Lower Upper

75 100

110 8.6 19.1 57.3#

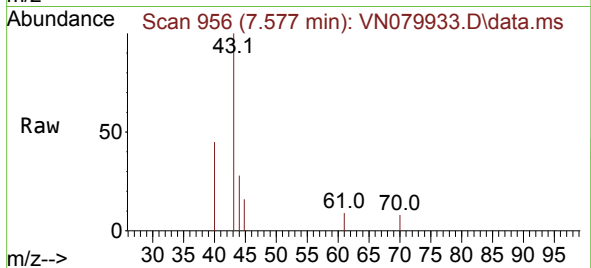
77 0.0 25.0 37.4#



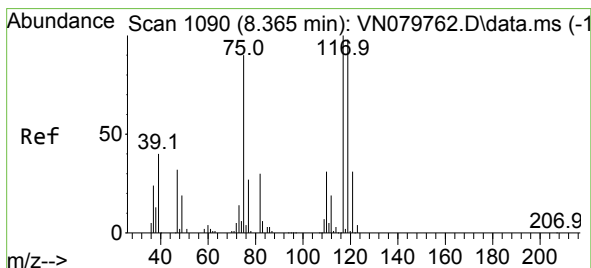
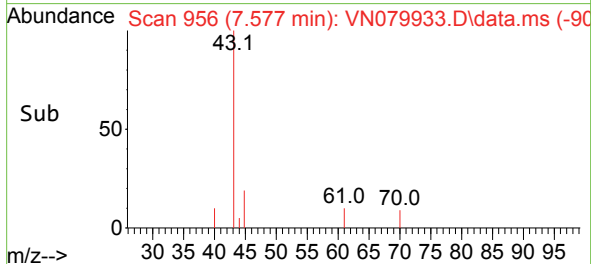
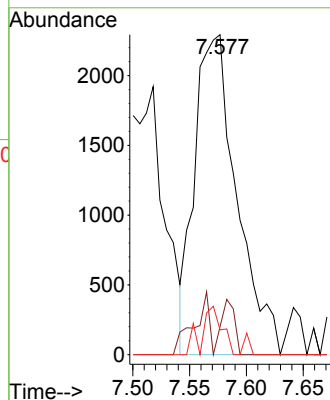


#37
Ethyl Acetate
Concen: 1.248 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

Instrument :
MSVOA_N
ClientSampleId :

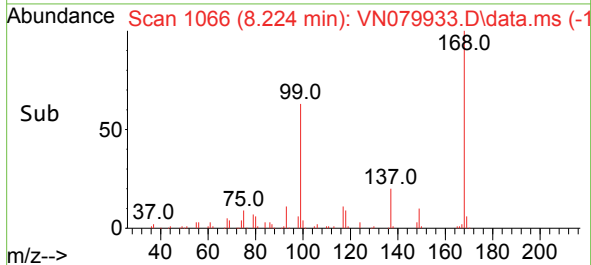
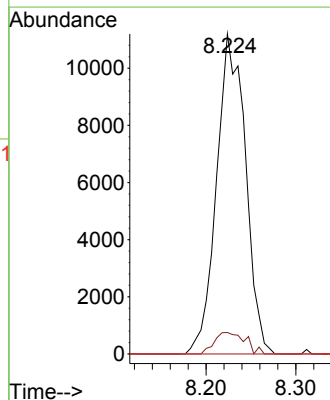
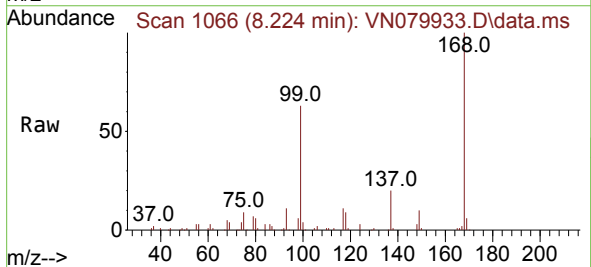


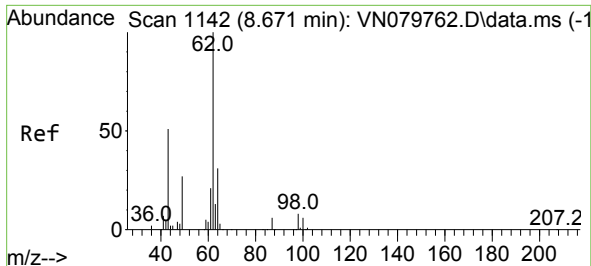
Tgt Ion: 43 Resp: 5929
Ion Ratio Lower Upper
43 100
61 5.5 13.2 19.8#
70 7.3 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 4.800 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

Tgt Ion: 117 Resp: 25057
Ion Ratio Lower Upper
117 100
119 6.7 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.310 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN079933.D

Acq: 06 Nov 2023 19:21

Instrument :

MSVOA_N

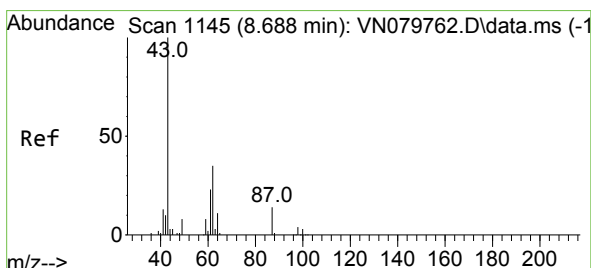
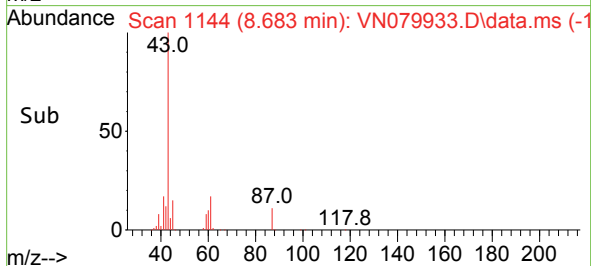
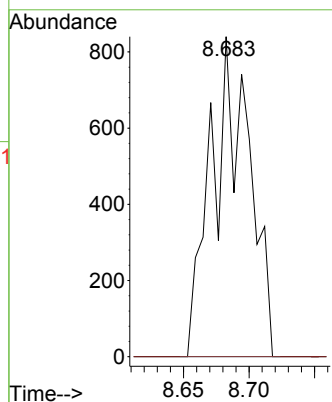
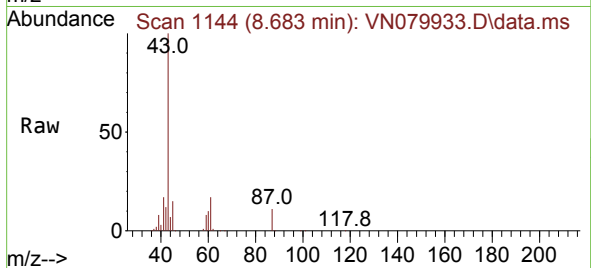
ClientSampleId :

Tgt Ion: 62 Resp: 1681

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 42.190 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN079933.D

Acq: 06 Nov 2023 19:21

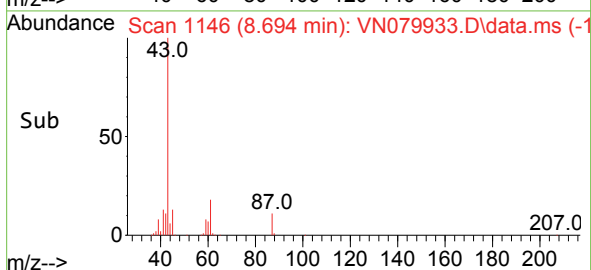
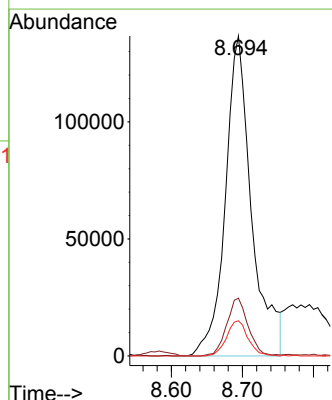
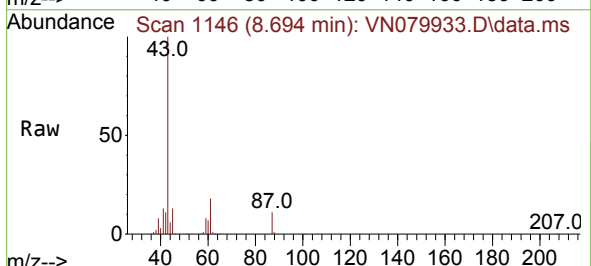
Tgt Ion: 43 Resp: 351491

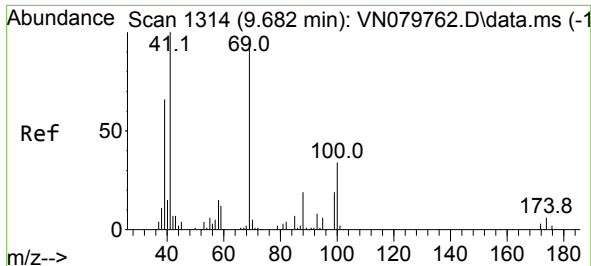
Ion Ratio Lower Upper

43 100

61 14.8 24.7 37.1#

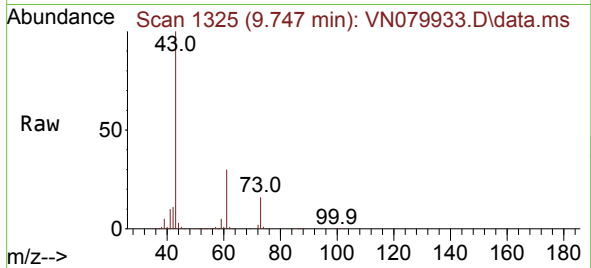
87 9.0 14.6 21.8#



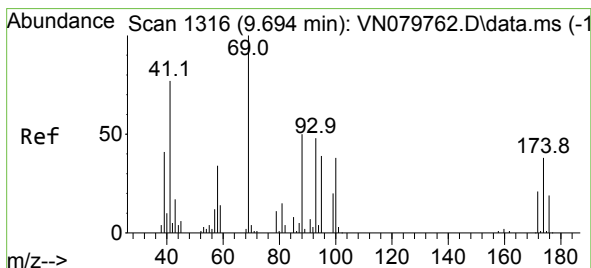
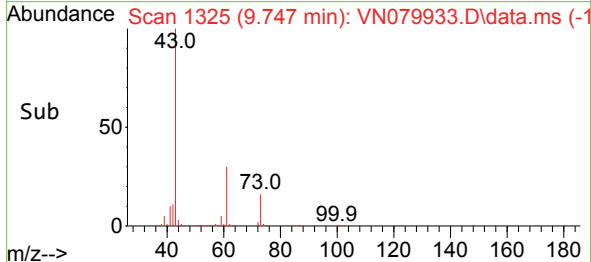
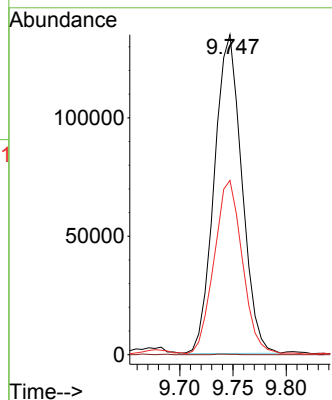


#48
Methyl methacrylate
Concen: 66.324 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.065 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

Instrument :
MSVOA_N
ClientSampleId :

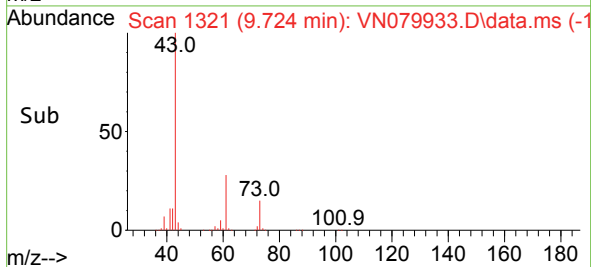
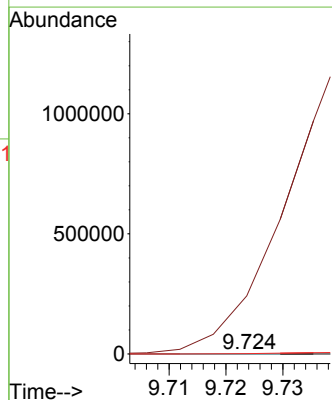
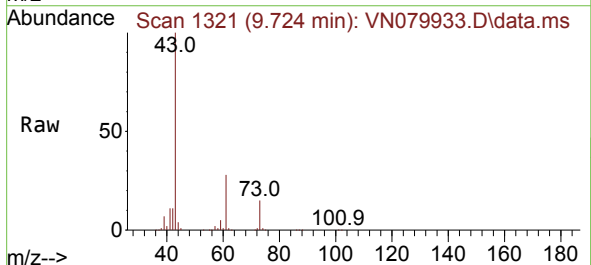


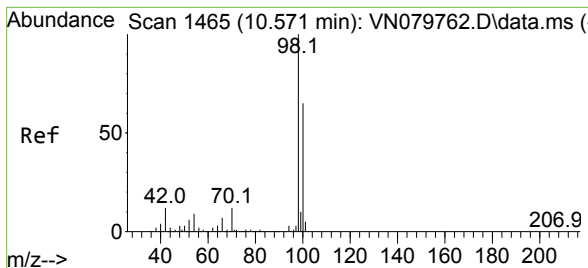
Tgt Ion: 41 Resp: 242028
Ion Ratio Lower Upper
41 100
69 0.1 90.4 135.6#
39 56.1 54.6 81.8



#49
1,4-Dioxane
Concen: 1.287 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.030 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

Tgt Ion: 88 Resp: 83
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

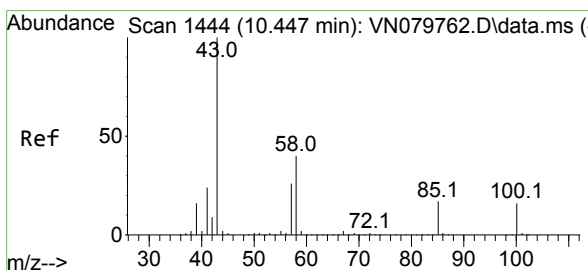
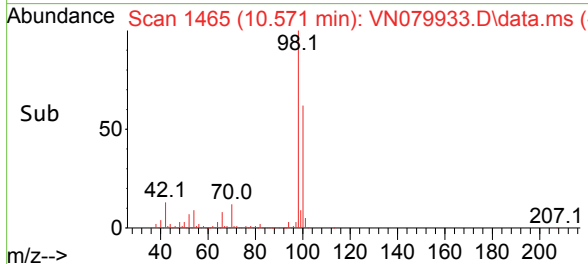
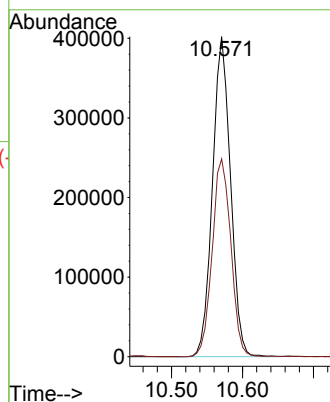
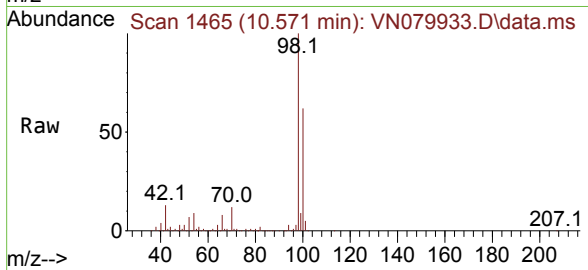




#50
Toluene-d8
Concen: 52.985 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

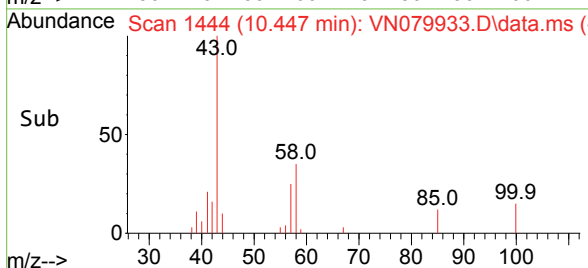
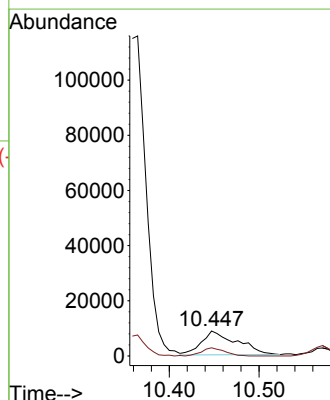
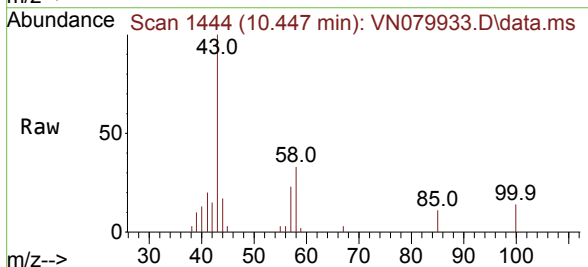
Instrument :
MSVOA_N
ClientSampleId :

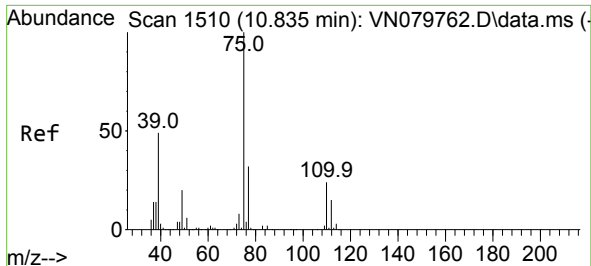
Tgt Ion: 98 Resp: 707642
Ion Ratio Lower Upper
98 100
100 63.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 5.018 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

Tgt Ion: 43 Resp: 23536
Ion Ratio Lower Upper
43 100
58 22.6 36.6 54.8#

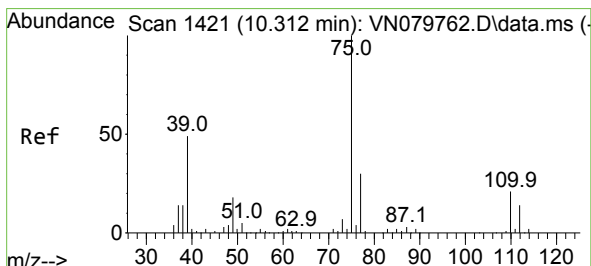
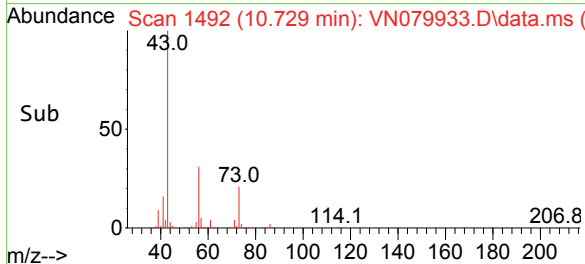
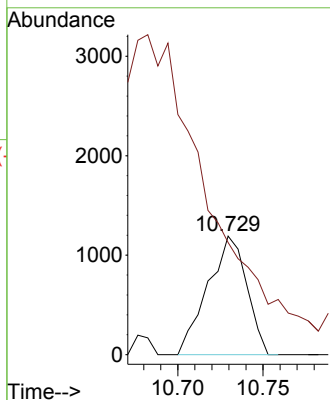
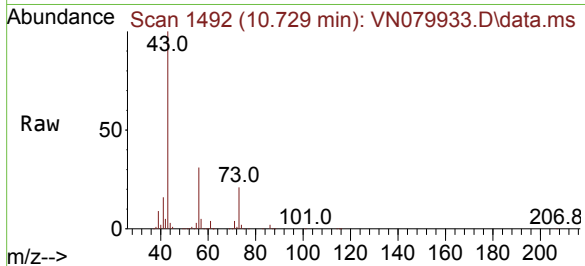




#53
t-1,3-Dichloropropene
Concen: 0.335 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

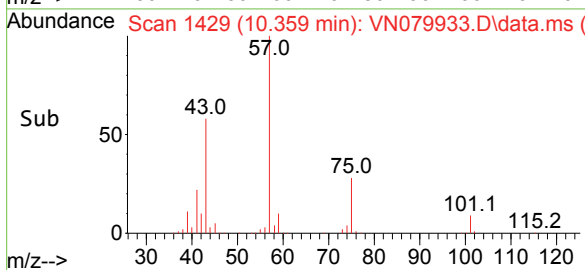
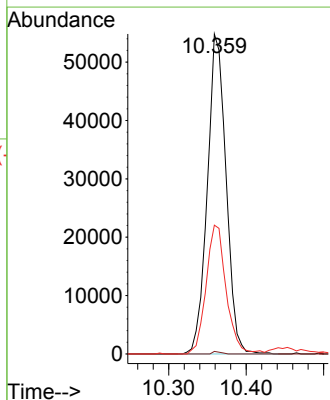
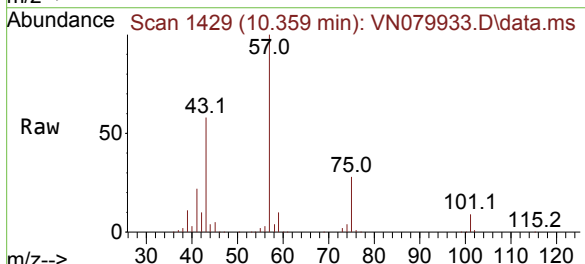
Instrument :
MSVOA_N
ClientSampleId :

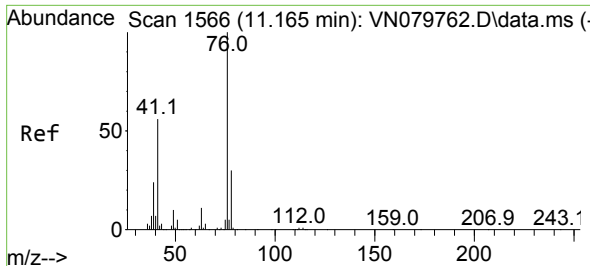
Tgt Ion: 75 Resp: 1897
Ion Ratio Lower Upper
75 100
77 48.1 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 14.936 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

Tgt Ion: 75 Resp: 92144
Ion Ratio Lower Upper
75 100
77 0.8 26.1 39.1#
39 40.2 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.930 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.035 min

Lab File: VN079933.D

Acq: 06 Nov 2023 19:21

Instrument :

MSVOA_N

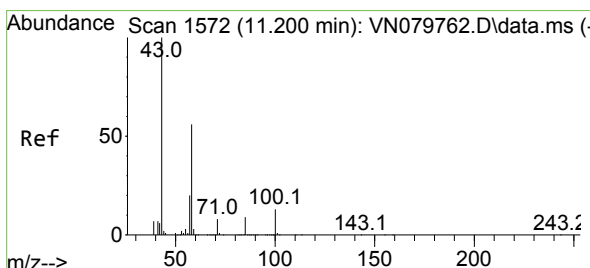
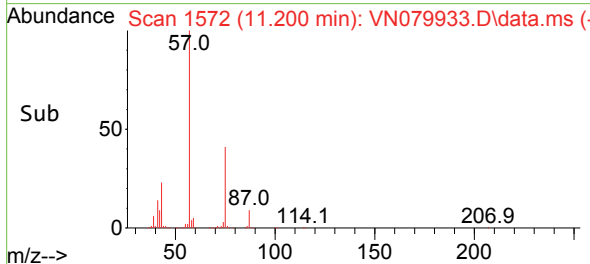
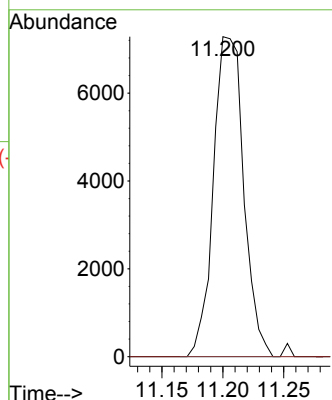
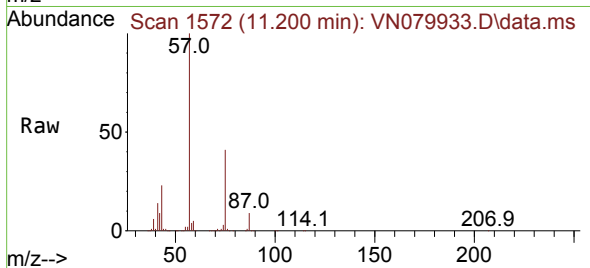
ClientSampleId :

Tgt Ion: 76 Resp: 12586

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 43.939 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN079933.D

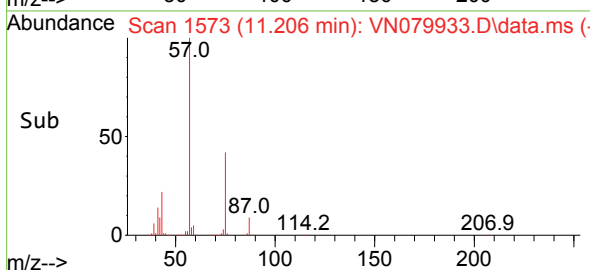
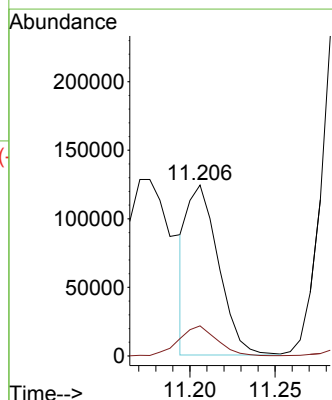
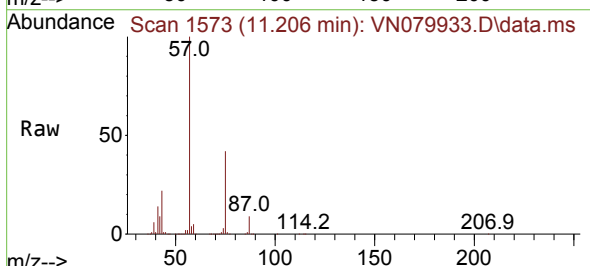
Acq: 06 Nov 2023 19:21

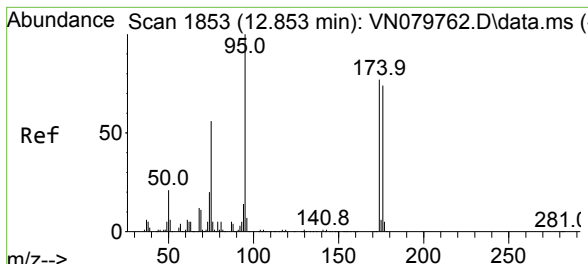
Tgt Ion: 43 Resp: 157659

Ion Ratio Lower Upper

43 100

58 21.8 31.7 95.1#

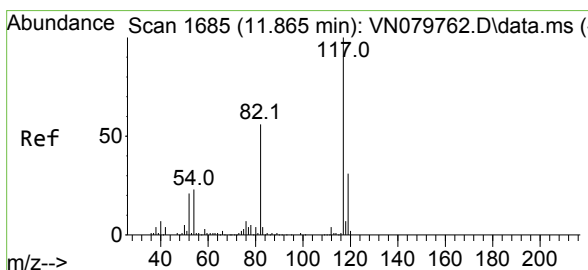
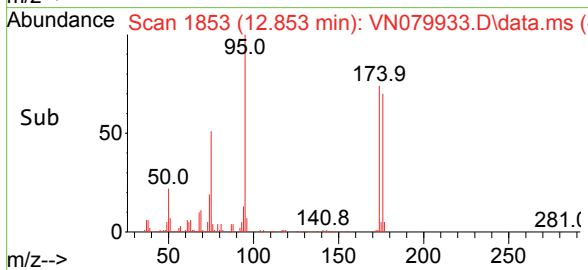
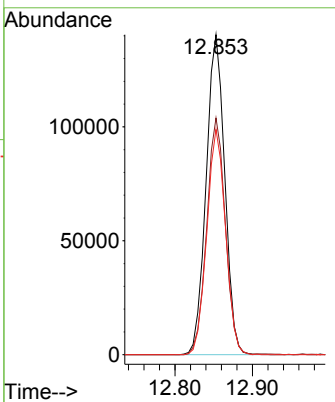
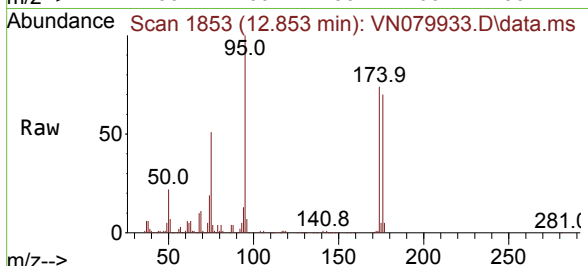




#62
 4-Bromofluorobenzene
 Concen: 52.880 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN079933.D
 Acq: 06 Nov 2023 19:21

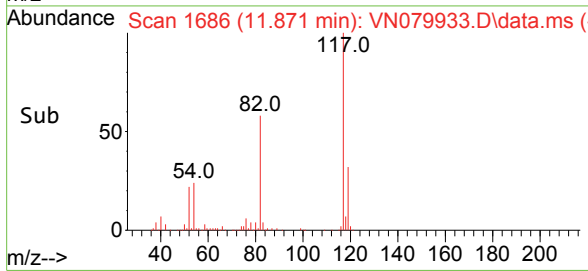
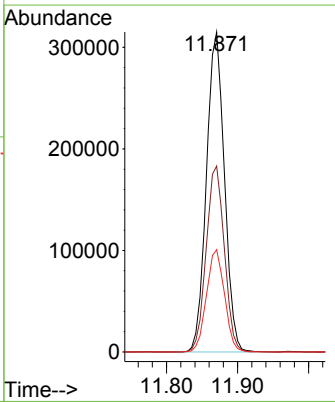
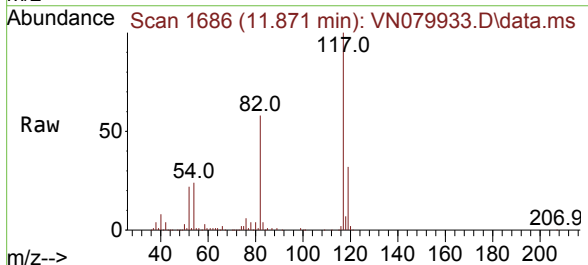
Instrument :
 MSVOA_N
 ClientSampleId :

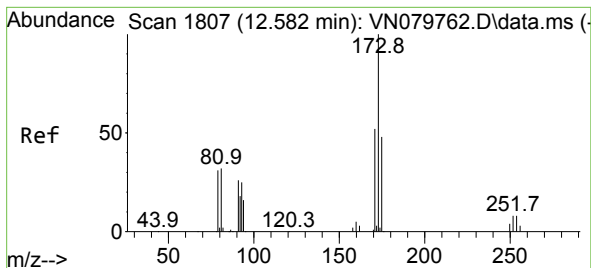
Tgt Ion:	95	Resp:	234222
Ion Ratio	Lower	Upper	
95	100		
174	74.1	0.0	143.8
176	70.7	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: VN079933.D
 Acq: 06 Nov 2023 19:21

Tgt Ion:	117	Resp:	553579
Ion Ratio	Lower	Upper	
117	100		
82	58.1	44.0	66.0
119	31.9	25.6	38.4





#71

Bromoform

Concen: 0.623 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN079933.D

Acq: 06 Nov 2023 19:21

Instrument :

MSVOA_N

ClientSampleId :

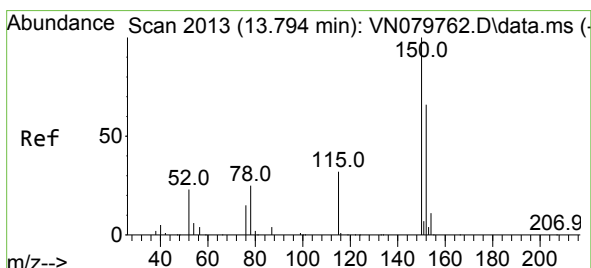
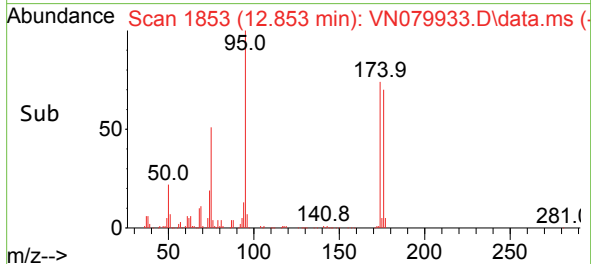
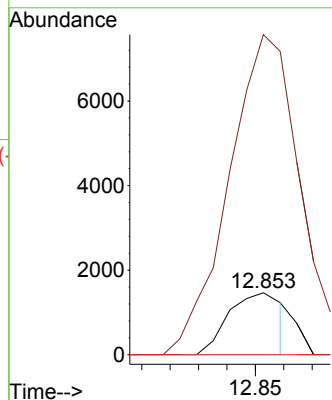
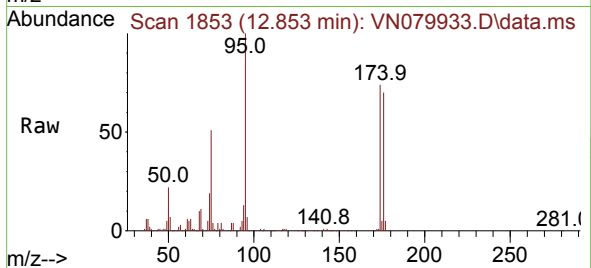
Tgt Ion:173 Resp: 1915

Ion Ratio Lower Upper

173 100

175 536.1 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079933.D

Acq: 06 Nov 2023 19:21

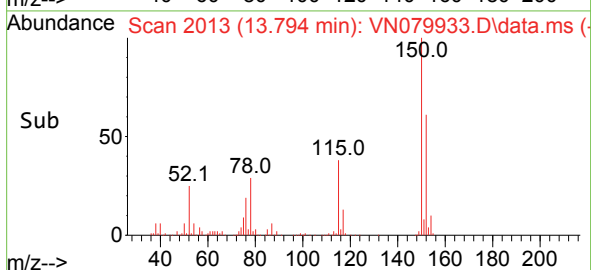
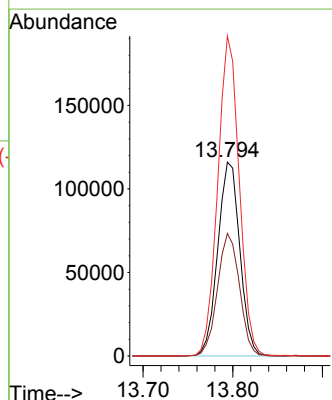
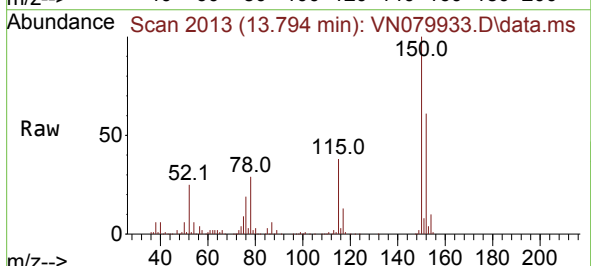
Tgt Ion:152 Resp: 198251

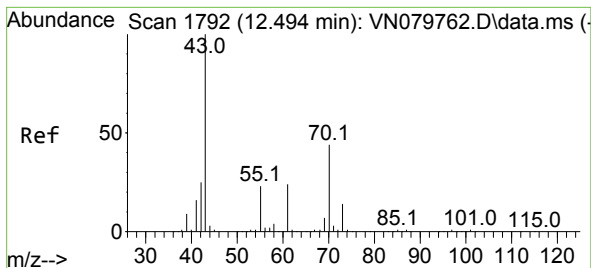
Ion Ratio Lower Upper

152 100

115 63.0 32.3 96.8

150 160.9 0.0 355.8





#74

N-amy1 acetate

Concen: 0.370 ug/l

RT: 12.488 min Scan# 1

Delta R.T. -0.006 min

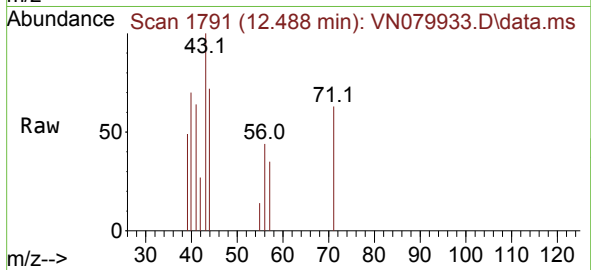
Lab File: VN079933.D

Acq: 06 Nov 2023 19:21

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 2428

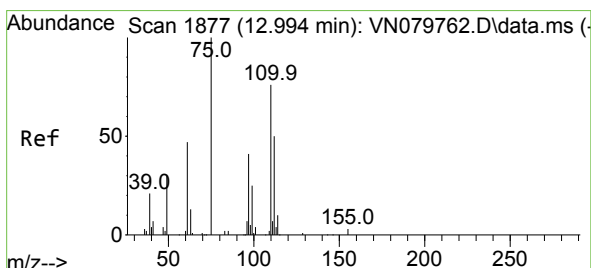
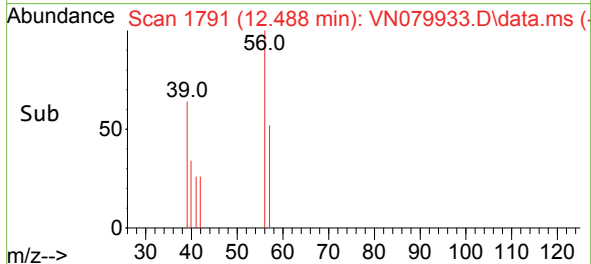
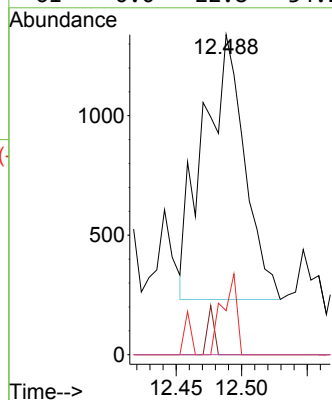
Ion Ratio Lower Upper

43 100

70 3.0 43.4 65.2#

55 10.7 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 27.194 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079933.D

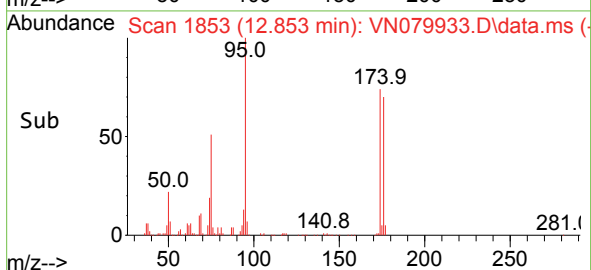
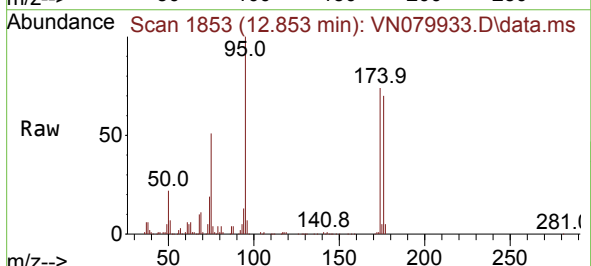
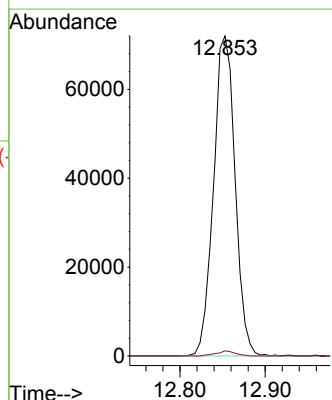
Acq: 06 Nov 2023 19:21

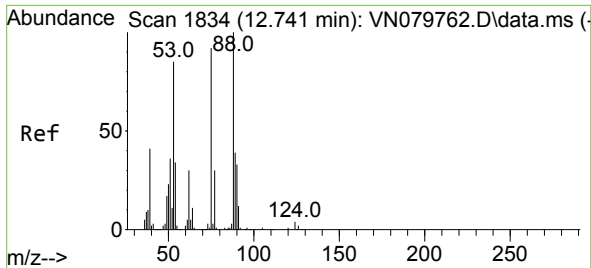
Tgt Ion: 75 Resp: 126569

Ion Ratio Lower Upper

75 100

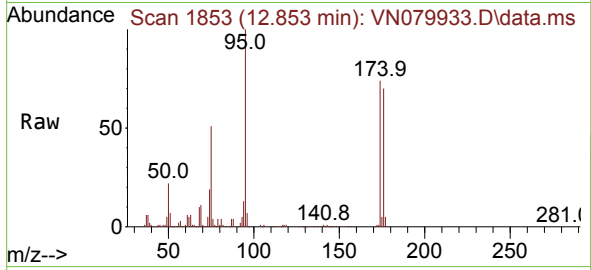
77 1.4 84.5 253.5#





#81
trans-1,4-Dichloro-2-butene
Concen: 73.988 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN079933.D
Acq: 06 Nov 2023 19:21

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 126569
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

