

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060823\
 Data File : VN078123.D
 Acq On : 08 Jun 2023 12:37
 Operator : JC\MD
 Sample : 03050-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-23-0A

Quant Time: Jun 09 01:25:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

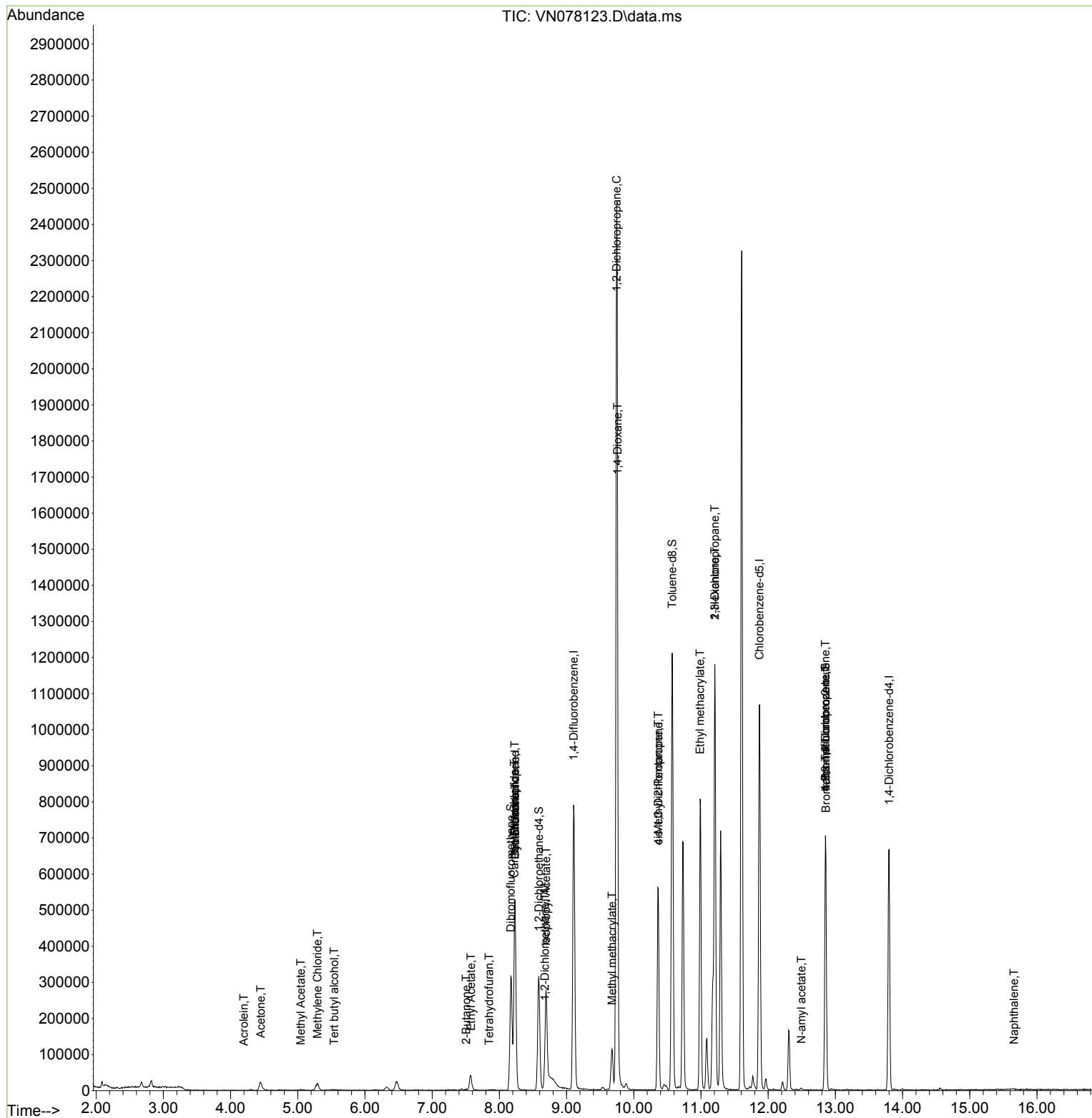
Internal Standards						
1) Pentafluorobenzene	8.236	168	373630	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	705737	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	644409	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	187276	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	260307	52.253	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.500%			
35) Dibromofluoromethane	8.171	113	226306	50.715	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.440%			
50) Toluene-d8	10.571	98	878003	51.039	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.080%			
62) 4-Bromofluorobenzene	12.853	95	252945	47.298	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.600%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1056	Below Cal	#	87
11) Tert butyl alcohol	5.542	59	990	1.439	ug/l #	72
13) Acrolein	4.200	56	193	0.255	ug/l #	1
16) Acetone	4.448	43	41378	28.857	ug/l	89
18) Methyl Acetate	5.048	43	3750	0.568	ug/l #	70
20) Methylene Chloride	5.295	84	15552	3.282	ug/l #	85
25) 2-Butanone	7.506	43	2988	1.355	ug/l	95
29) Tetrahydrofuran	7.847	42	702	0.476	ug/l #	29
31) Cyclohexane	8.236	56	8977	1.405	ug/l #	26
36) 1,1-Dichloropropene	8.230	75	31571	4.933	ug/l #	50
37) Ethyl Acetate	7.577	43	58643	11.728	ug/l	97
38) Carbon Tetrachloride	8.224	117	40382	5.975	ug/l #	14
42) 1,2-Dichloroethane	8.677	62	2341	0.357	ug/l #	73
43) Isopropyl Acetate	8.694	43	332871	34.810	ug/l #	79
45) 1,2-Dichloropropane	9.747	63	2998	0.631	ug/l #	45
48) Methyl methacrylate	9.677	41	6812	1.697	ug/l #	31
49) 1,4-Dioxane	9.759	88	477	5.655	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	209326	41.570	ug/l #	40
54) cis-1,3-Dichloropropene	10.365	75	104534	13.959	ug/l #	67
56) Ethyl methacrylate	10.988	69	3001	0.452	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	13389	1.738	ug/l #	42
59) 2-Hexanone	11.206	43	141298	40.299	ug/l #	49
71) Bromoform	12.859	173	2310	0.705	ug/l #	1
74) N-amyl acetate	12.494	43	1884	0.323	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.865	83	168	Below Cal	#	18
76) 1,2,3-Trichloropropane	12.853	75	134160	30.303	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	134160	93.101	ug/l #	15
95) Naphthalene	15.659	128	2575	0.316	ug/l #	82

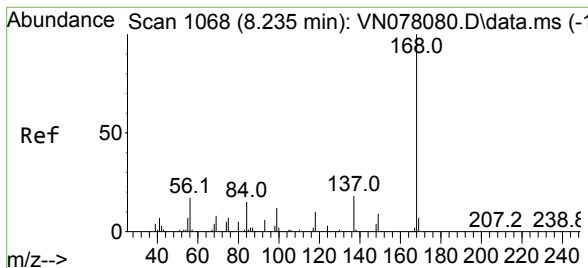
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN078123.D

Acq: 08 Jun 2023 12:37

Instrument :

MSVOA_N

ClientSampleId :

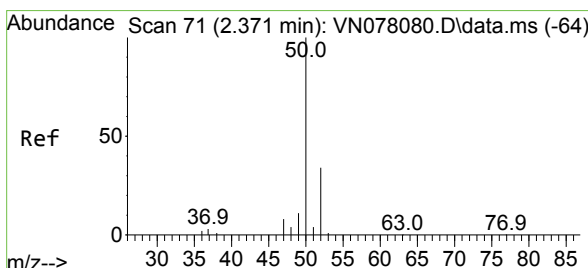
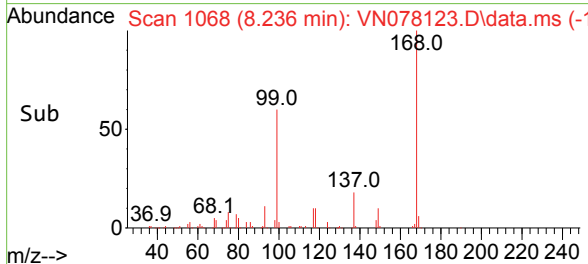
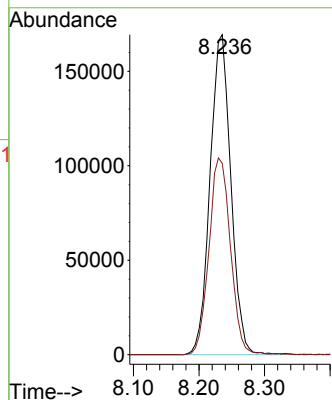
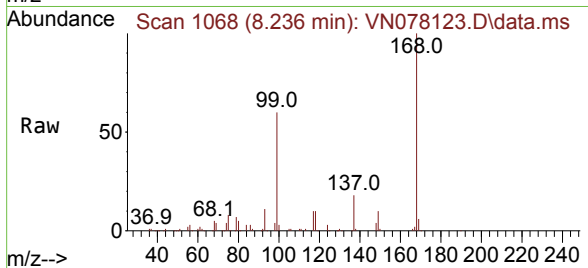
TP-23-0A

Tgt Ion:168 Resp: 373630

Ion Ratio Lower Upper

168 100

99 59.7 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078123.D

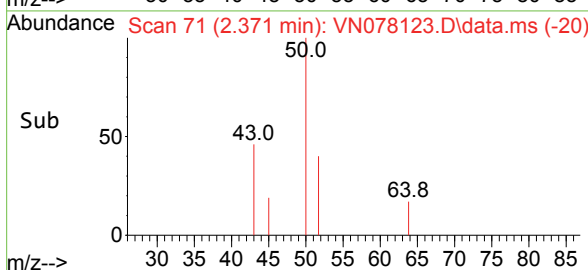
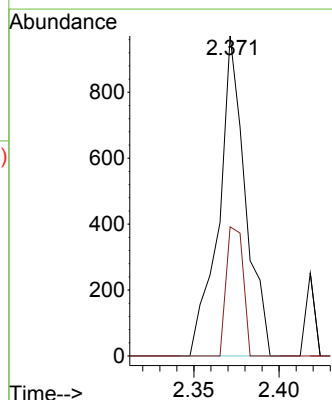
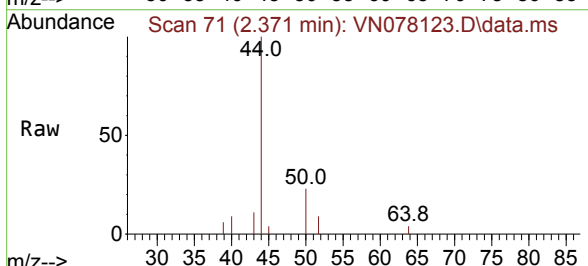
Acq: 08 Jun 2023 12:37

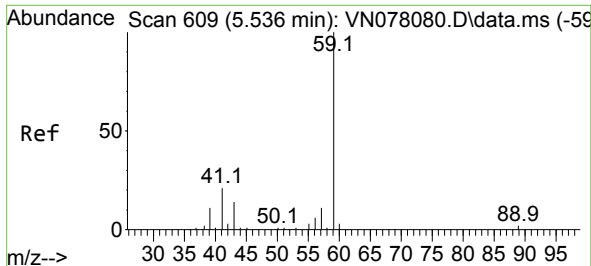
Tgt Ion: 50 Resp: 1056

Ion Ratio Lower Upper

50 100

52 40.4 26.5 39.7#





#11

Tert butyl alcohol

Concen: 1.439 ug/l

RT: 5.542 min Scan# 610

Delta R.T. 0.006 min

Lab File: VN078123.D

Acq: 08 Jun 2023 12:37

Instrument :

MSVOA_N

ClientSampleId :

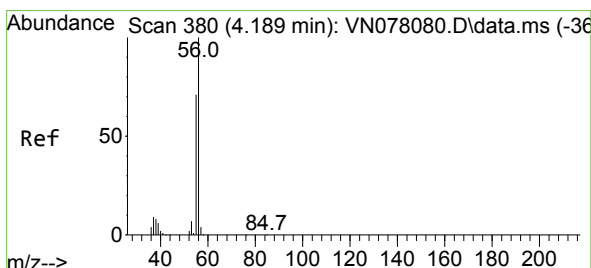
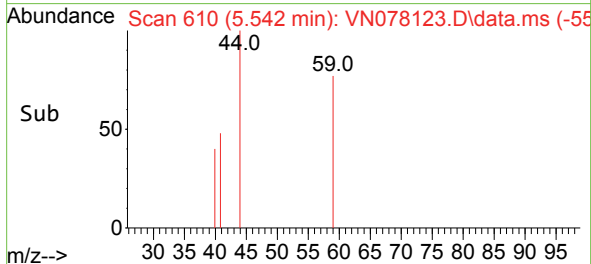
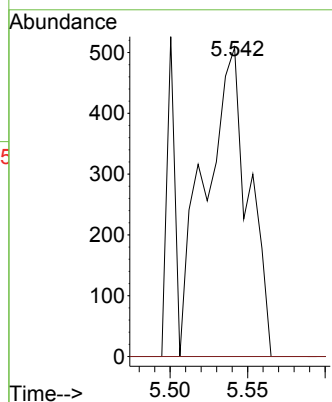
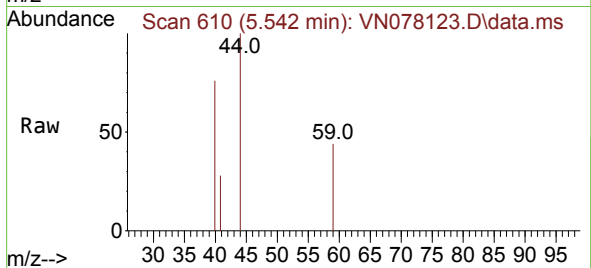
TP-23-0A

Tgt Ion: 59 Resp: 990

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: 0.255 ug/l

RT: 4.200 min Scan# 382

Delta R.T. 0.012 min

Lab File: VN078123.D

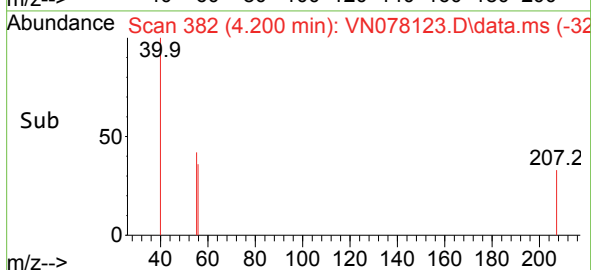
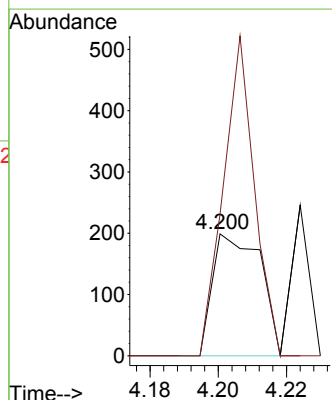
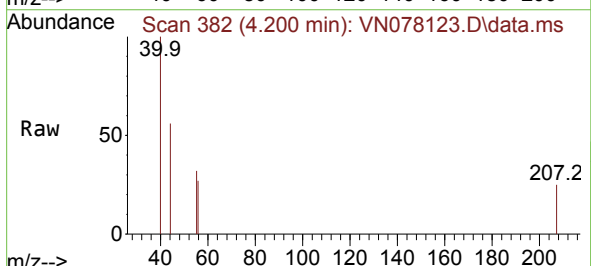
Acq: 08 Jun 2023 12:37

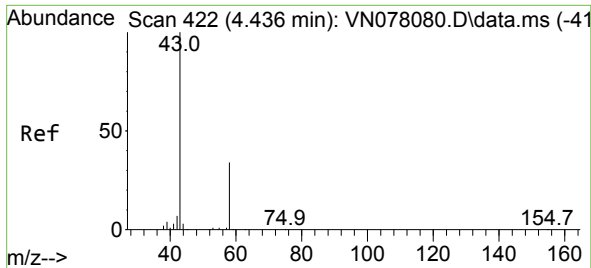
Tgt Ion: 56 Resp: 193

Ion Ratio Lower Upper

56 100

55 171.0 54.5 81.7#

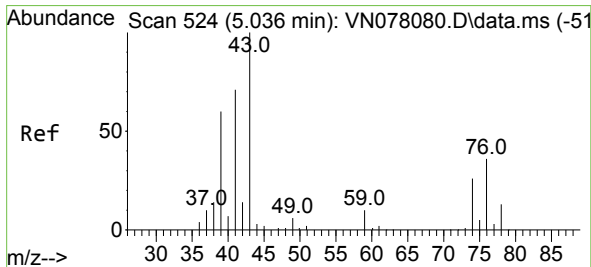
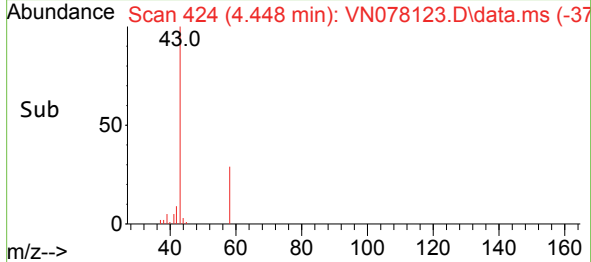
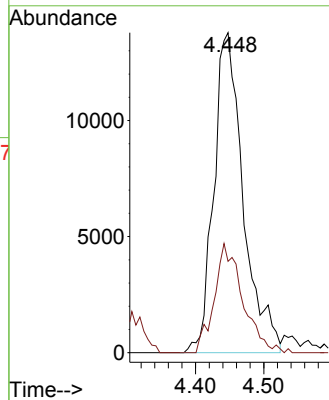
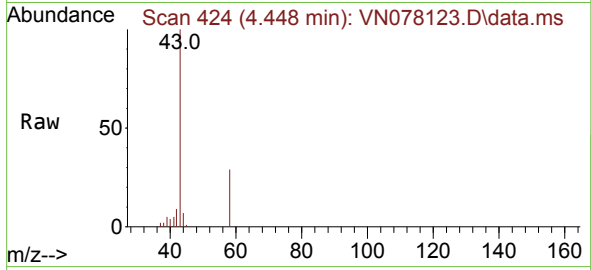




#16
Acetone
Concen: 28.857 ug/l
RT: 4.448 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

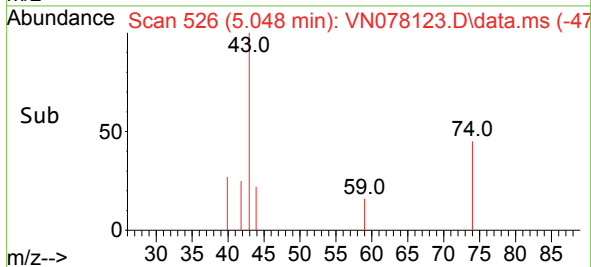
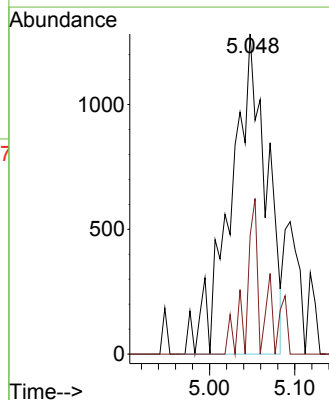
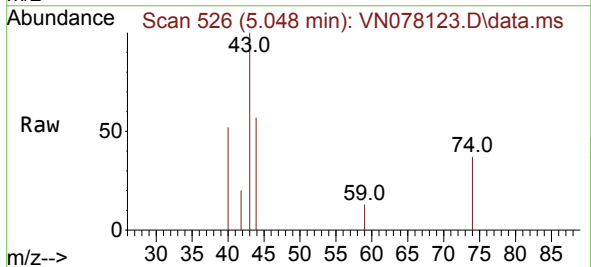
Instrument :
MSVOA_N
ClientSampleId :
TP-23-0A

Tgt Ion: 43 Resp: 41378
Ion Ratio Lower Upper
43 100
58 28.6 28.0 42.0



#18
Methyl Acetate
Concen: 0.568 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.012 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

Tgt Ion: 43 Resp: 3750
Ion Ratio Lower Upper
43 100
74 15.7 26.2 39.4#

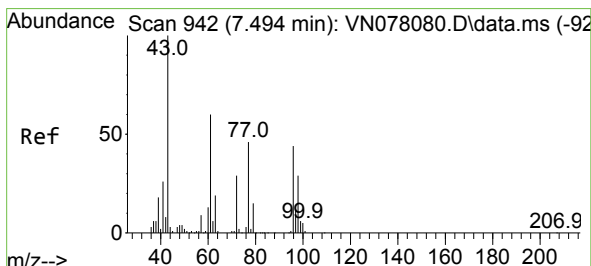
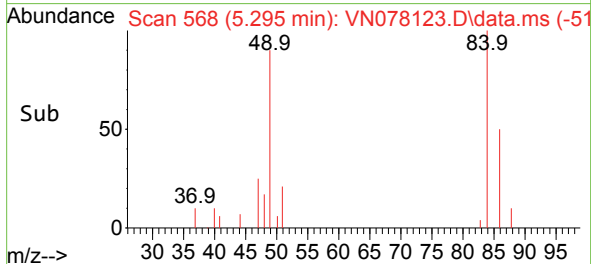
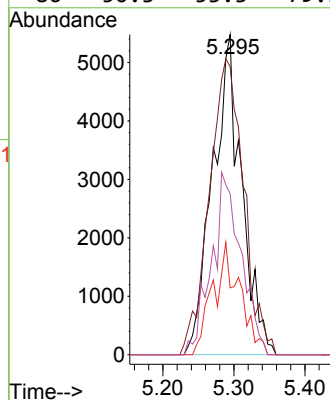
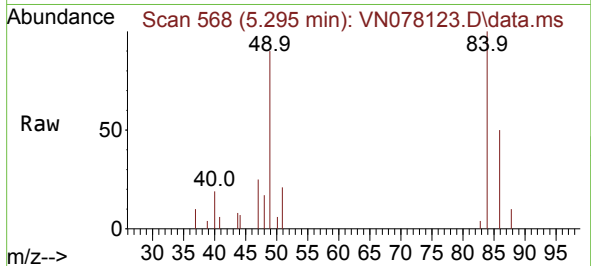




#20
Methylene Chloride
Concen: 3.282 ug/l
RT: 5.295 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

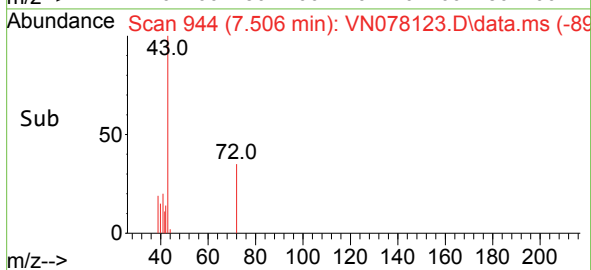
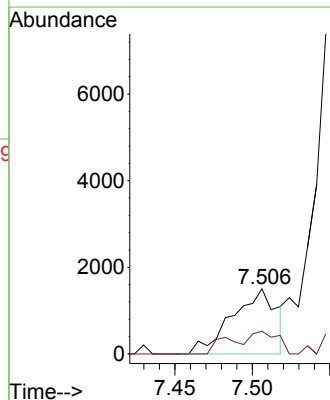
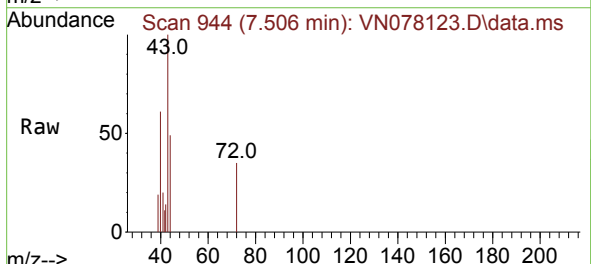
Instrument :
MSVOA_N
ClientSampleId :
TP-23-0A

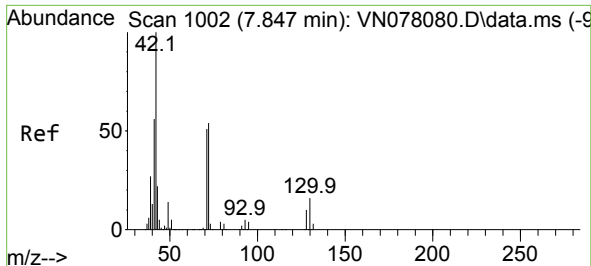
Tgt Ion: 84	Resp: 15552
Ion Ratio	Lower Upper
84 100	
49 90.0	79.7 119.5
51 20.9	25.2 37.8#
86 50.3	53.3 79.9#



#25
2-Butanone
Concen: 1.355 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

Tgt Ion: 43	Resp: 2988
Ion Ratio	Lower Upper
43 100	
72 34.9	30.2 45.2

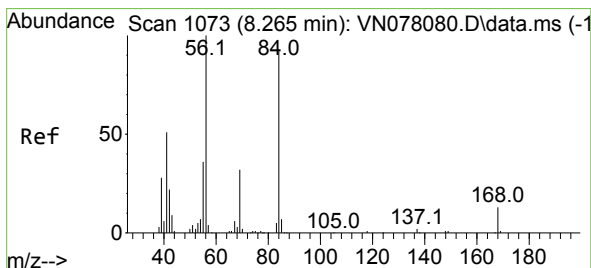
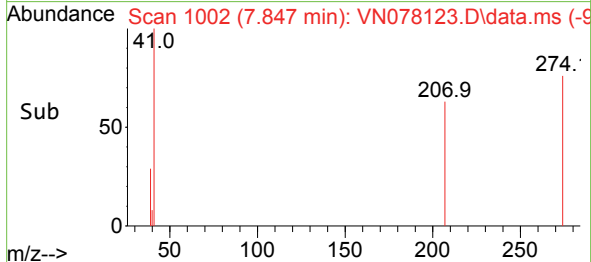
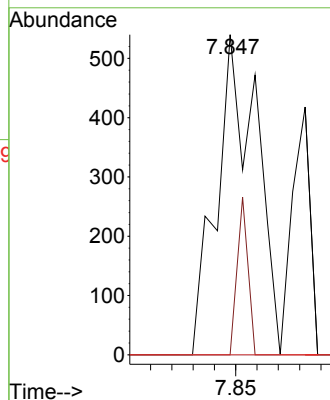
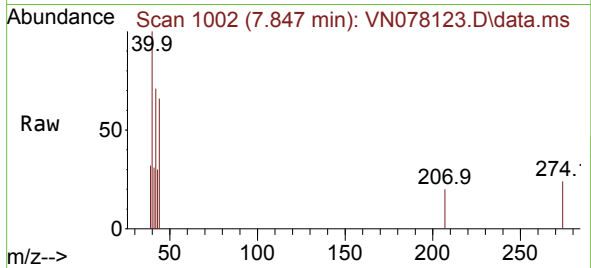




#29
Tetrahydrofuran
Concen: 0.476 ug/l
RT: 7.847 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

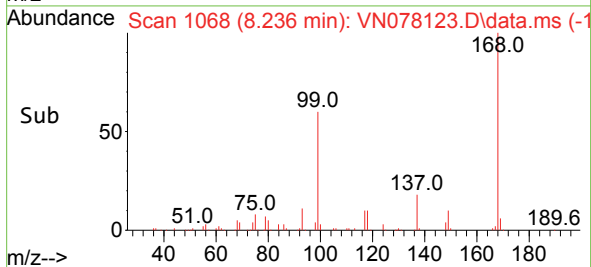
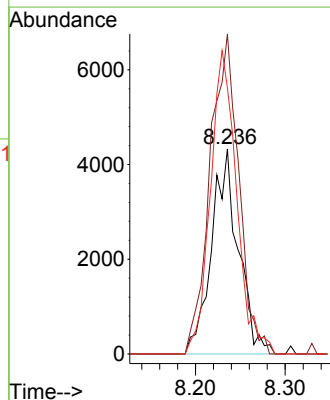
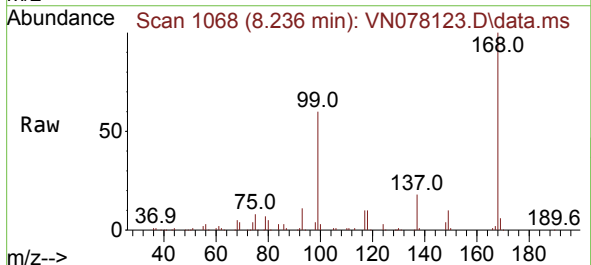
Instrument :
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TP-23-0A

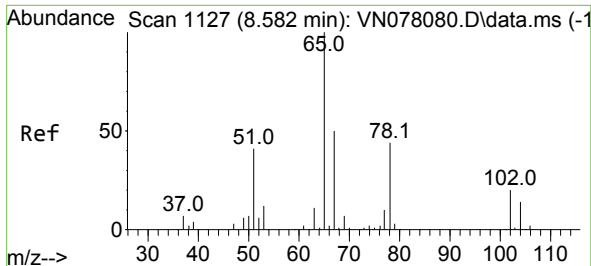
Tgt Ion: 42 Resp: 702
Ion Ratio Lower Upper
42 100
72 13.4 49.8 74.6#
71 0.0 47.4 71.2#



#31
Cyclohexane
Concen: 1.405 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

Tgt Ion: 56 Resp: 8977
Ion Ratio Lower Upper
56 100
69 156.1 26.8 40.2#
84 129.9 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 52.253 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078123.D

Acq: 08 Jun 2023 12:37

Instrument :

MSVOA_N

ClientSampleId :

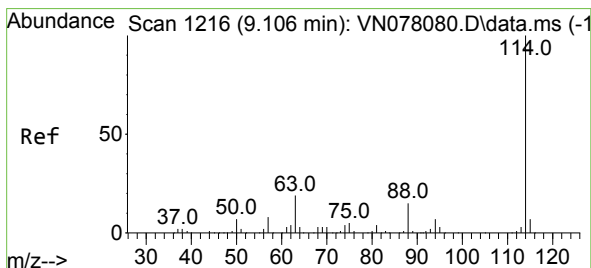
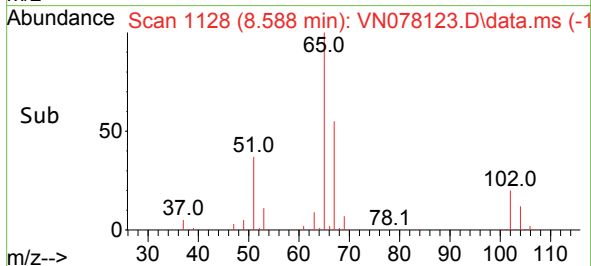
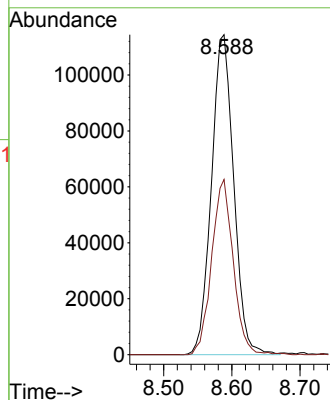
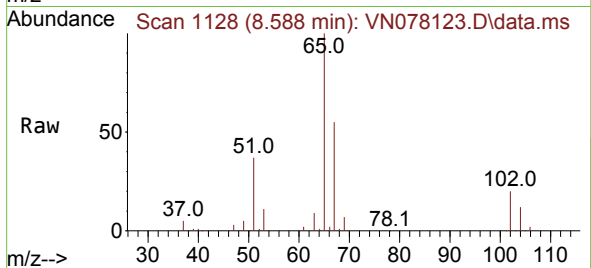
TP-23-0A

Tgt Ion: 65 Resp: 260307

Ion Ratio Lower Upper

65 100

67 53.1 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: VN078123.D

Acq: 08 Jun 2023 12:37

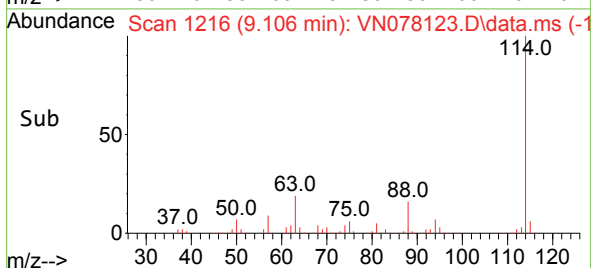
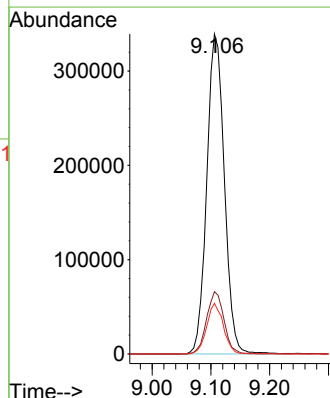
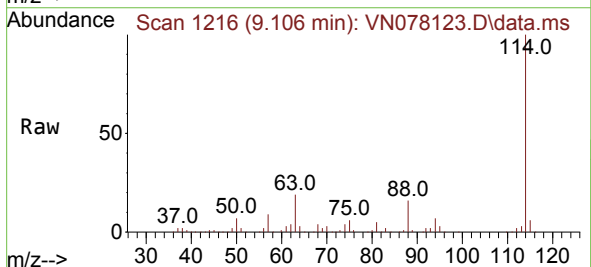
Tgt Ion: 114 Resp: 705737

Ion Ratio Lower Upper

114 100

63 19.5 0.0 36.4

88 15.8 0.0 30.6

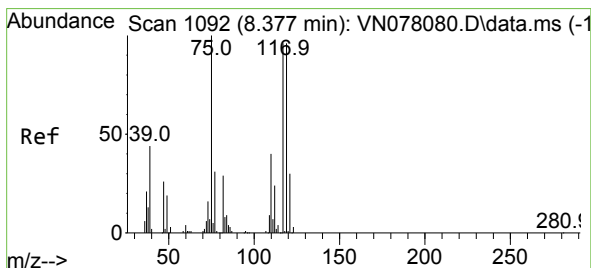
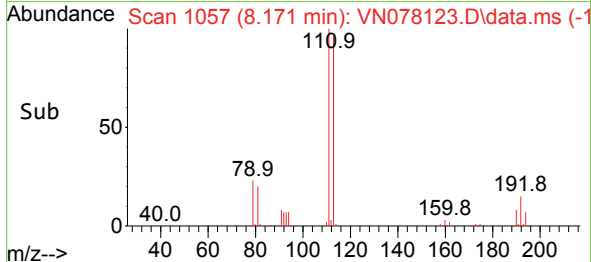
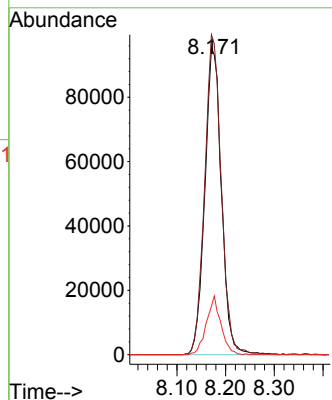
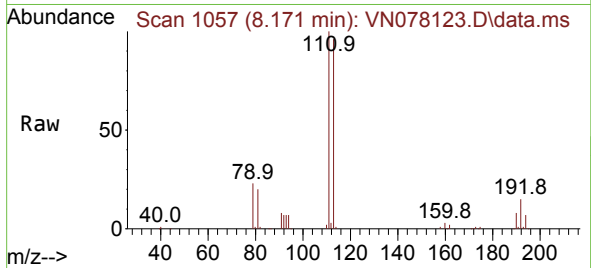




#35
Dibromofluoromethane
Concen: 50.715 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

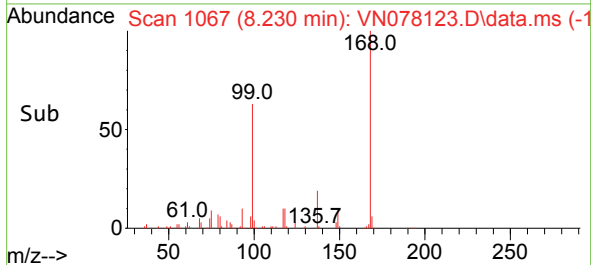
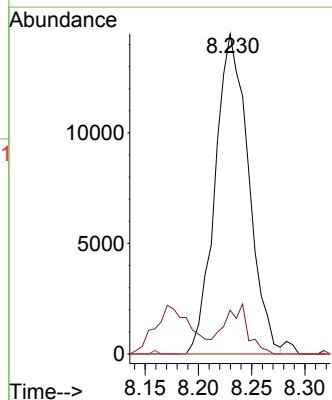
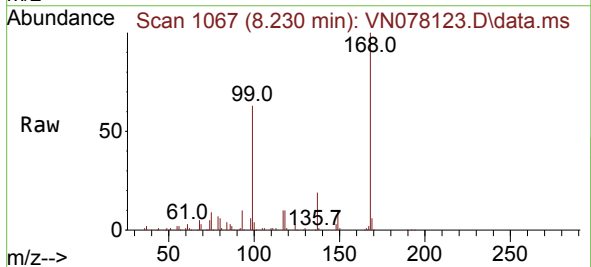
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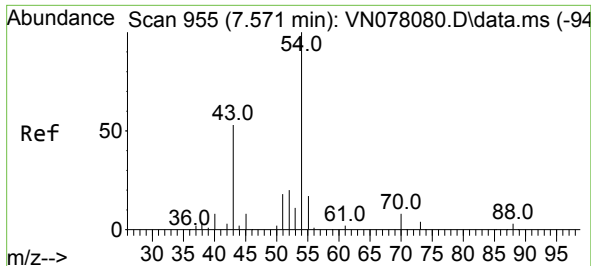
Tgt Ion:113 Resp: 226306
Ion Ratio Lower Upper
113 100
111 104.2 82.6 123.8
192 16.7 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.933 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

Tgt Ion: 75 Resp: 31571
Ion Ratio Lower Upper
75 100
110 10.9 19.1 57.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 11.728 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN078123.D

Acq: 08 Jun 2023 12:37

Instrument :

MSVOA_N

ClientSampleId :

TP-23-0A

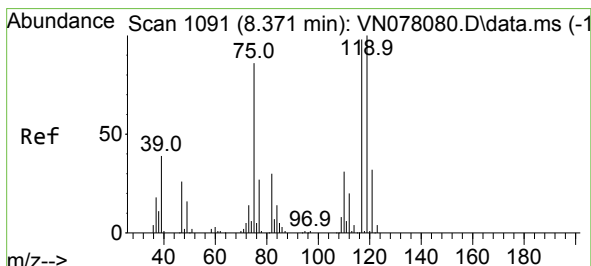
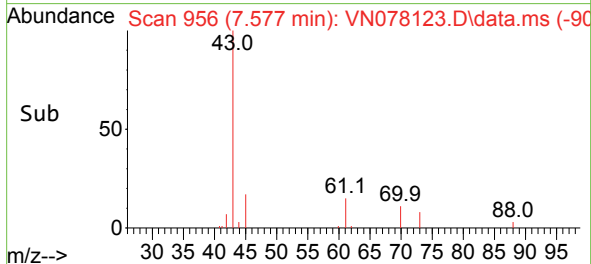
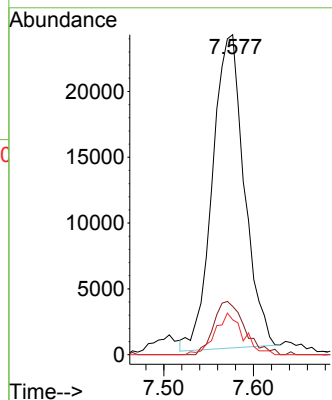
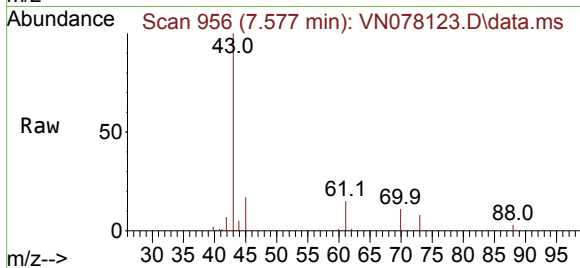
Tgt Ion: 43 Resp: 58643

Ion Ratio Lower Upper

43 100

61 16.6 13.2 19.8

70 11.7 11.3 16.9



#38

Carbon Tetrachloride

Concen: 5.975 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN078123.D

Acq: 08 Jun 2023 12:37

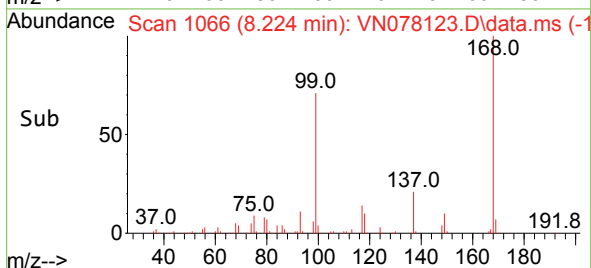
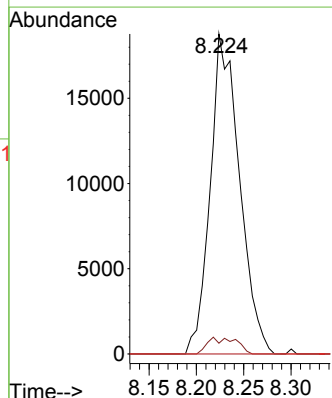
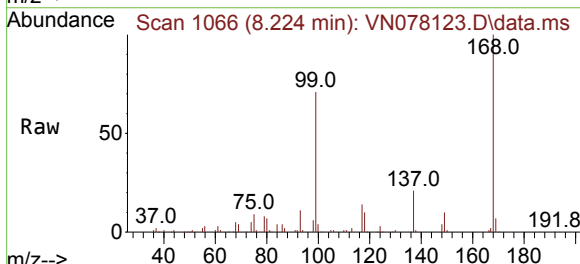
Tgt Ion: 117 Resp: 40382

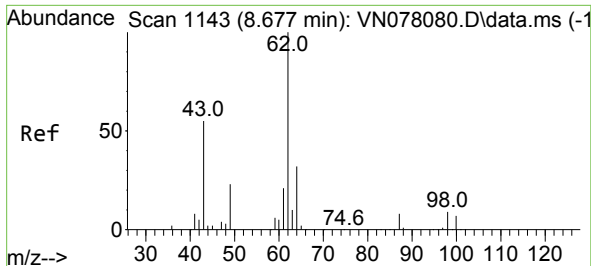
Ion Ratio Lower Upper

117 100

119 3.3 77.3 115.9#

121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.357 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN078123.D

Acq: 08 Jun 2023 12:37

Instrument :

MSVOA_N

ClientSampleId :

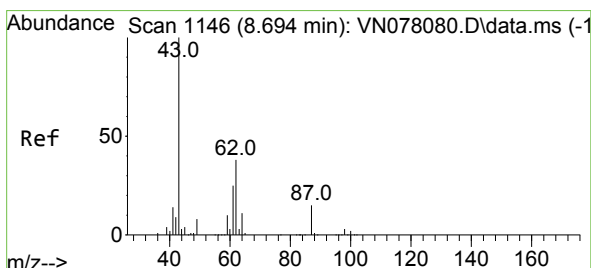
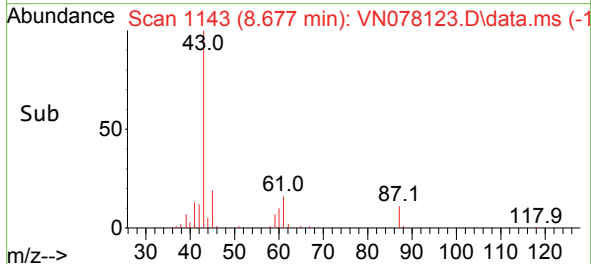
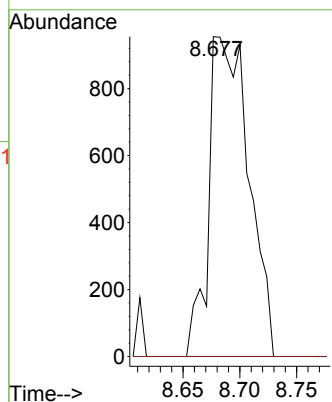
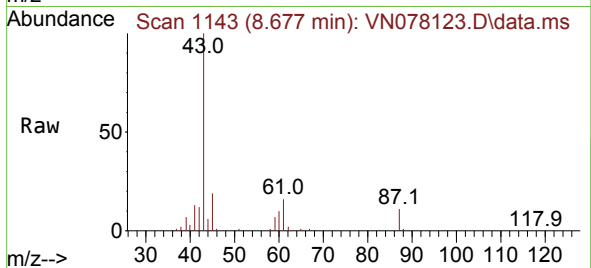
TP-23-0A

Tgt Ion: 62 Resp: 2341

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 34.810 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078123.D

Acq: 08 Jun 2023 12:37

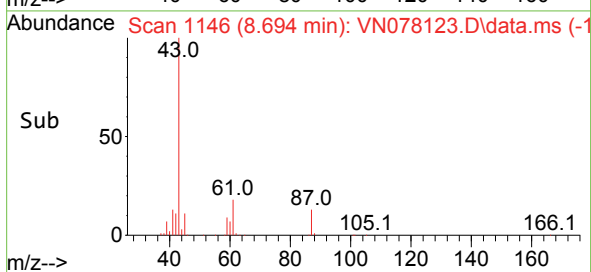
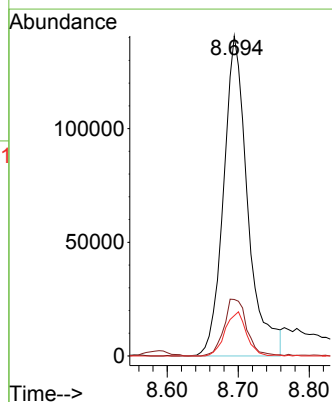
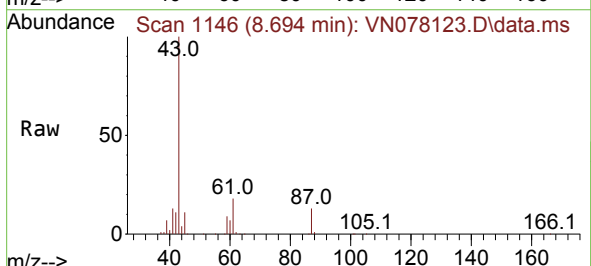
Tgt Ion: 43 Resp: 332871

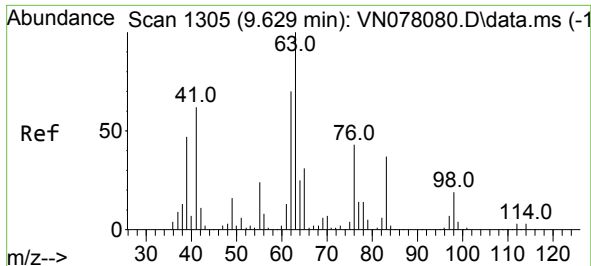
Ion Ratio Lower Upper

43 100

61 16.7 24.7 37.1#

87 12.1 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.631 ug/l

RT: 9.747 min Scan# 1

Delta R.T. 0.118 min

Lab File: VN078123.D

Acq: 08 Jun 2023 12:37

Instrument :

MSVOA_N

ClientSampleId :

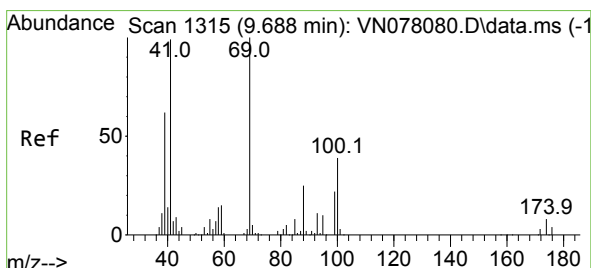
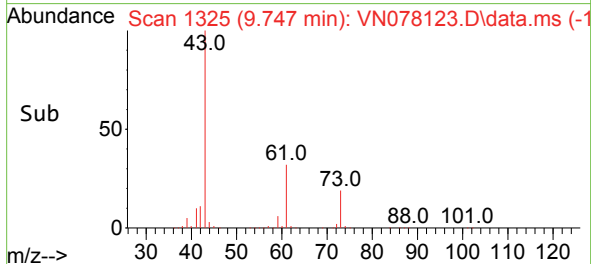
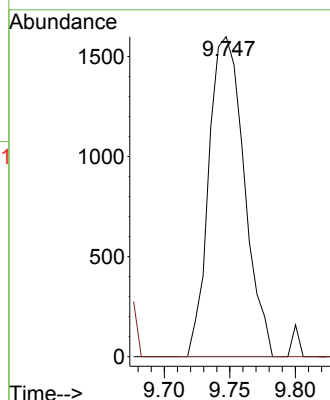
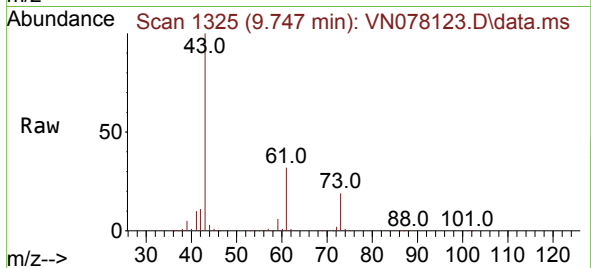
TP-23-0A

Tgt Ion: 63 Resp: 2998

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.697 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.012 min

Lab File: VN078123.D

Acq: 08 Jun 2023 12:37

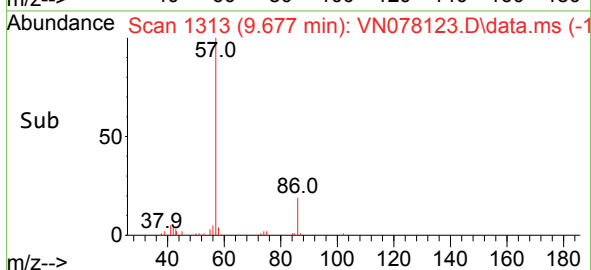
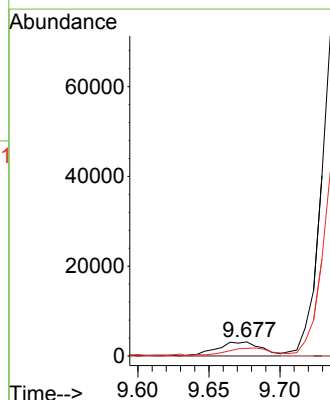
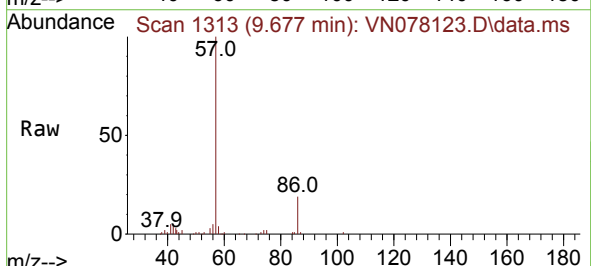
Tgt Ion: 41 Resp: 6812

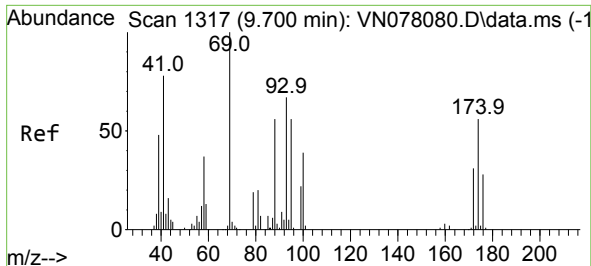
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 60.5 54.6 81.8





#49

1,4-Dioxane

Concen: 5.655 ug/l

RT: 9.759 min Scan# 1317

Delta R.T. 0.059 min

Lab File: VN078123.D

Acq: 08 Jun 2023 12:37

Instrument :

MSVOA_N

ClientSampleId :

TP-23-0A

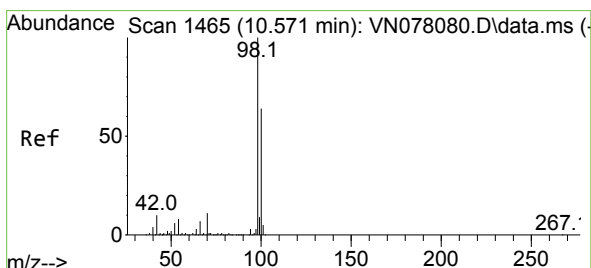
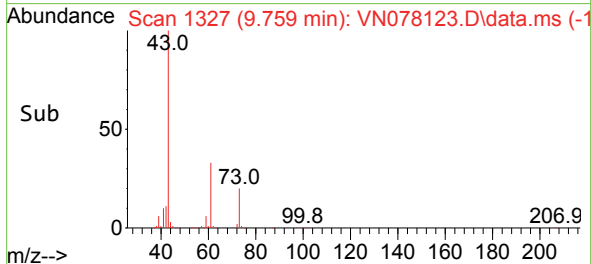
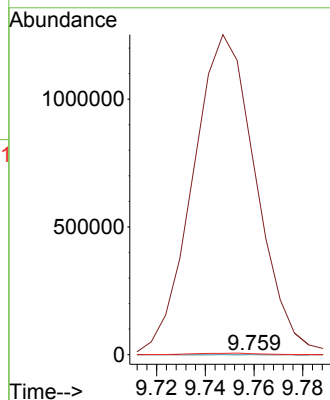
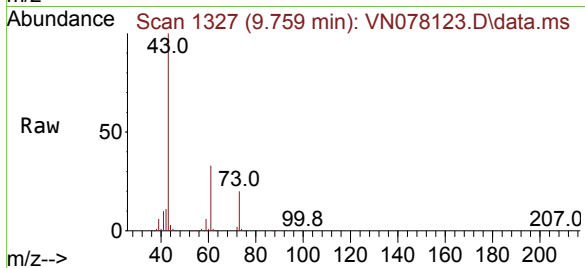
Tgt Ion: 88 Resp: 477

Ion Ratio Lower Upper

88 100

43 480386.6 17.0 25.6#

58 2400.8 47.0 70.4#



#50

Toluene-d8

Concen: 51.039 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078123.D

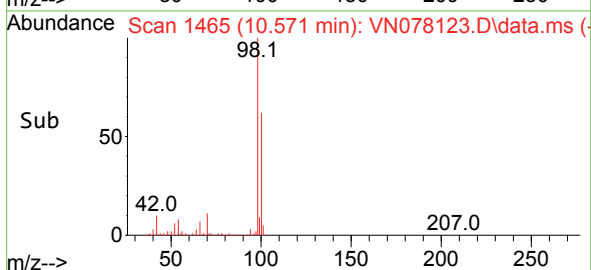
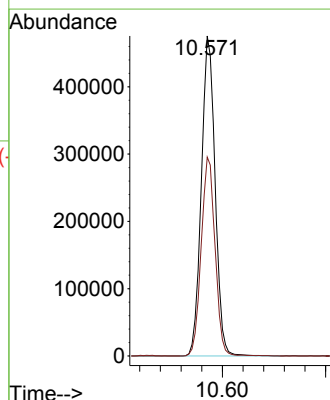
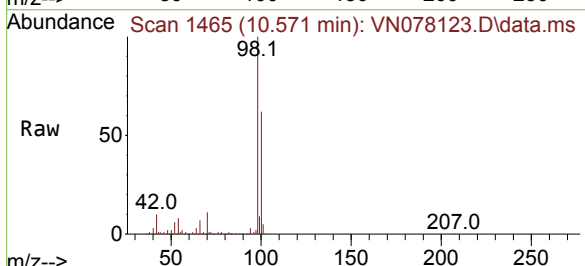
Acq: 08 Jun 2023 12:37

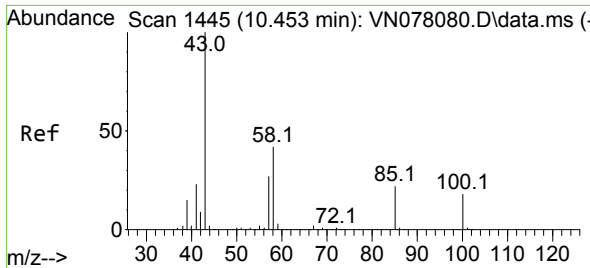
Tgt Ion: 98 Resp: 878003

Ion Ratio Lower Upper

98 100

100 62.6 52.0 78.0

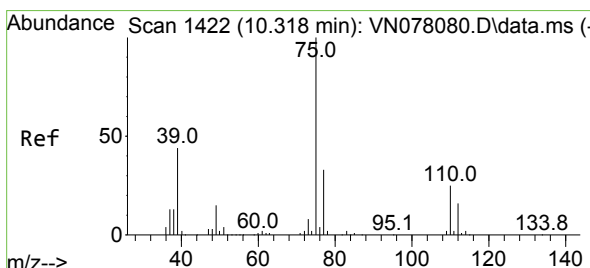
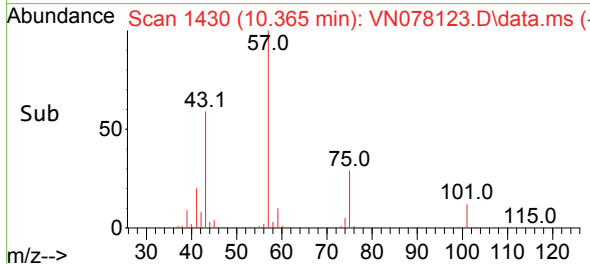
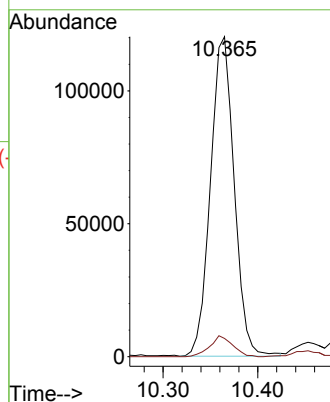
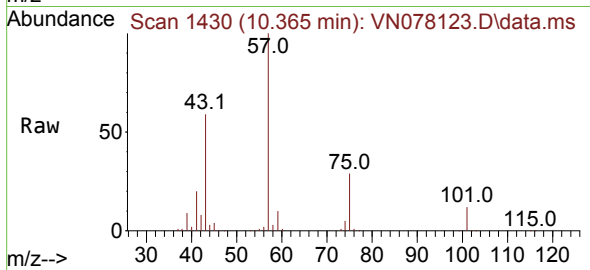




#51
4-Methyl-2-Pentanone
Concen: 41.570 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.088 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

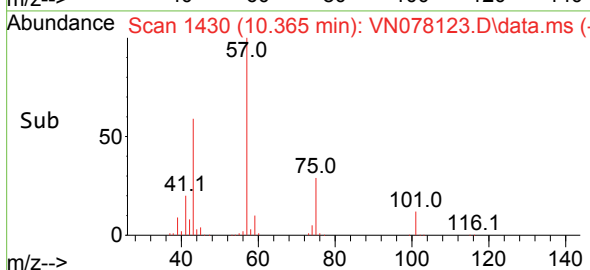
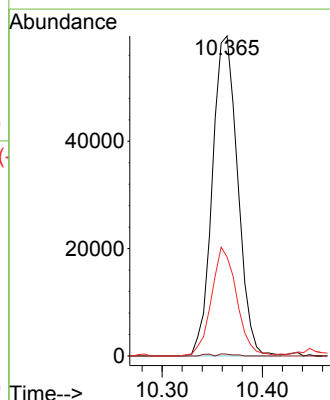
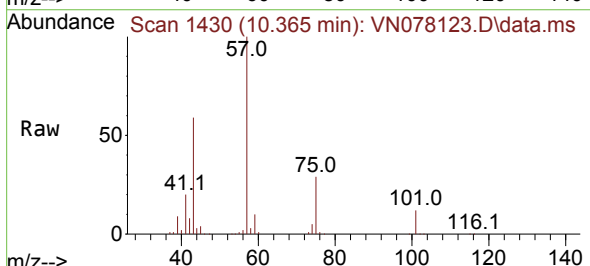
Instrument :
MSVOA_N
ClientSampleId :
TP-23-0A

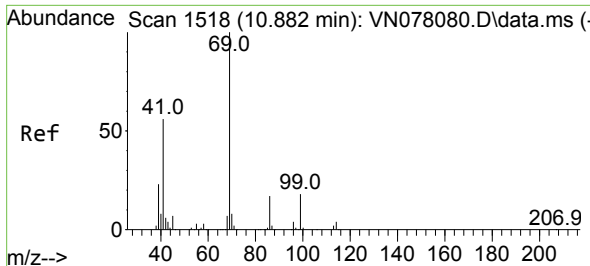
Tgt Ion: 43 Resp: 209326
Ion Ratio Lower Upper
43 100
58 6.3 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 13.959 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

Tgt Ion: 75 Resp: 104534
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 30.9 31.6 47.4#

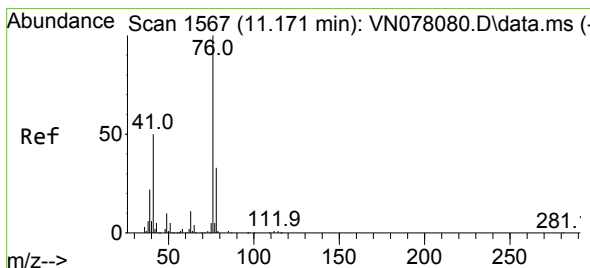
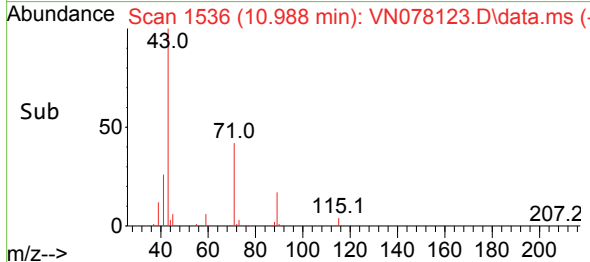
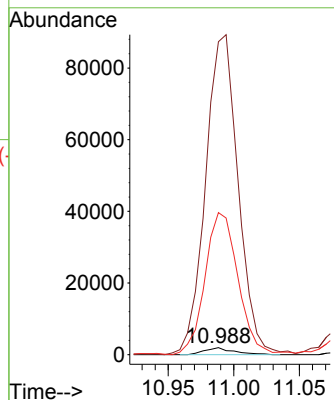
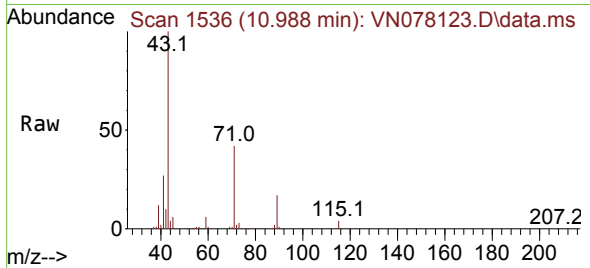




#56
Ethyl methacrylate
Concen: 0.452 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.106 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

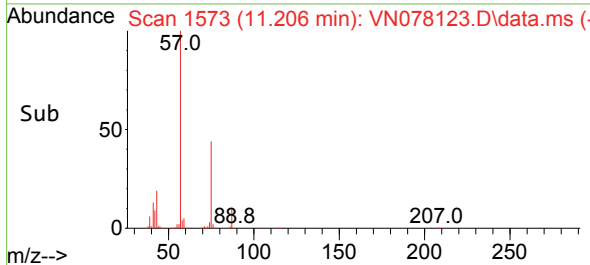
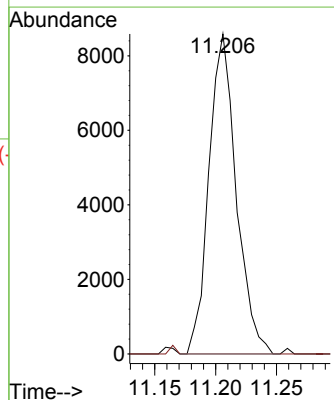
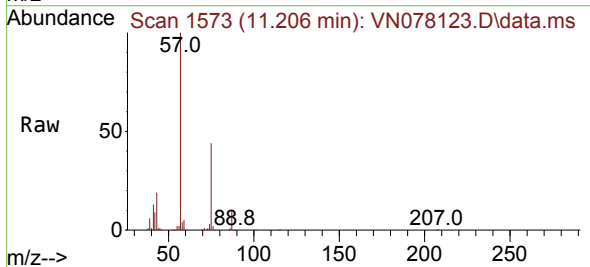
Instrument :
MSVOA_N
ClientSampleId :
TP-23-0A

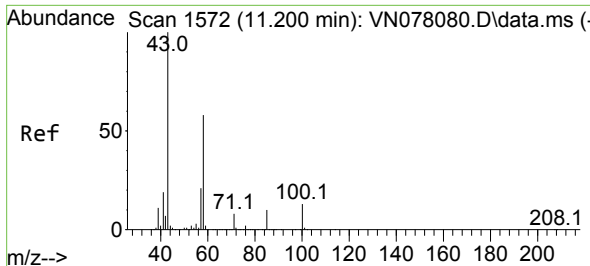
Tgt Ion: 69 Resp: 3001
Ion Ratio Lower Upper
69 100
41 5156.2 39.6 59.4#
39 2323.8 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.738 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

Tgt Ion: 76 Resp: 13389
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

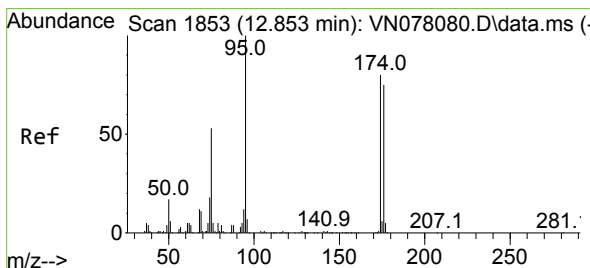
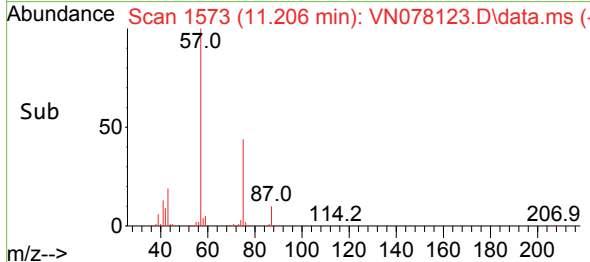
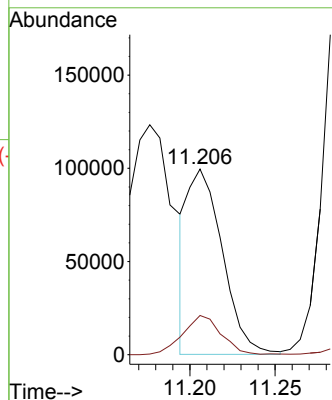
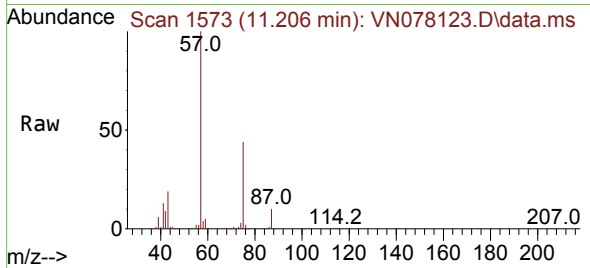




#59
2-Hexanone
Concen: 40.299 ug/l
RT: 11.206 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

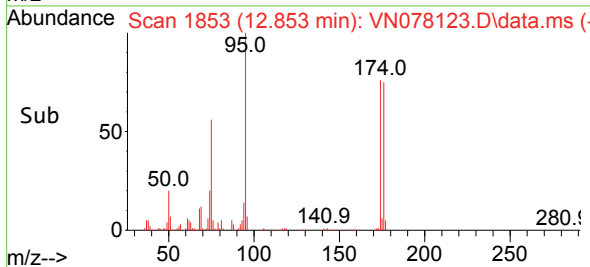
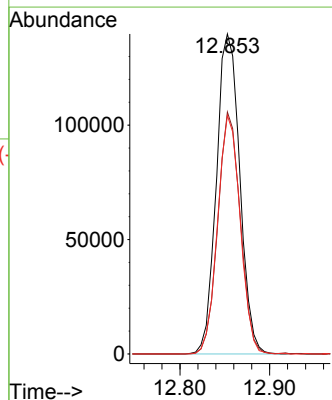
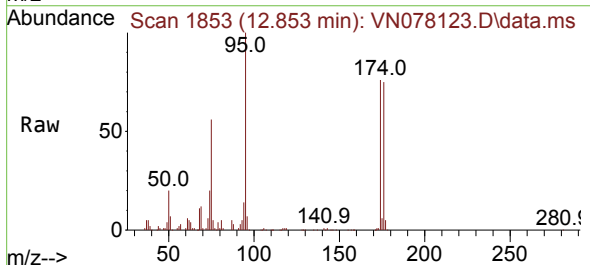
Instrument :
MSVOA_N
ClientSampleId :
TP-23-0A

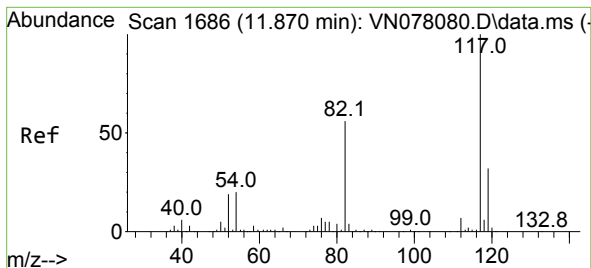
Tgt Ion: 43 Resp: 141298
Ion Ratio Lower Upper
43 100
58 23.6 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.298 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

Tgt Ion: 95 Resp: 252945
Ion Ratio Lower Upper
95 100
174 72.6 0.0 143.8
176 71.9 0.0 135.8

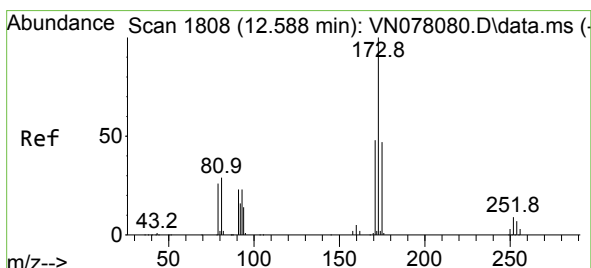
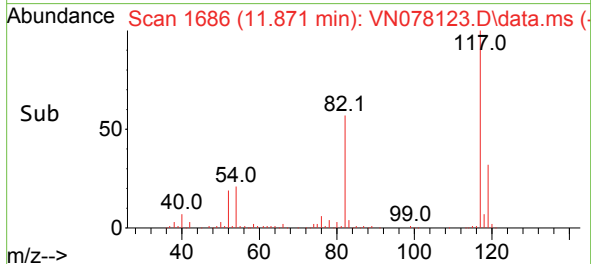
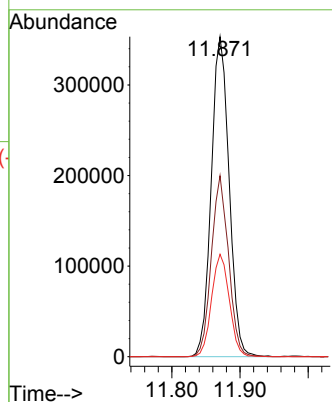
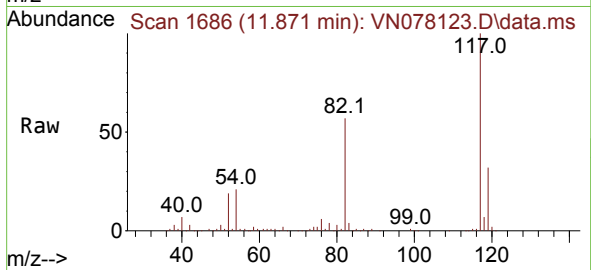




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

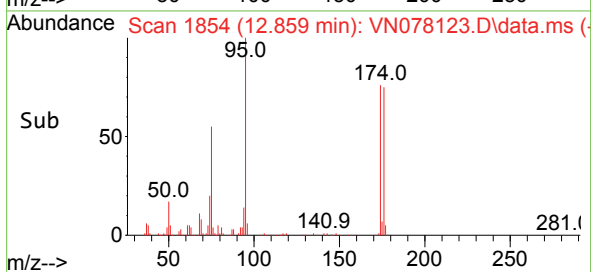
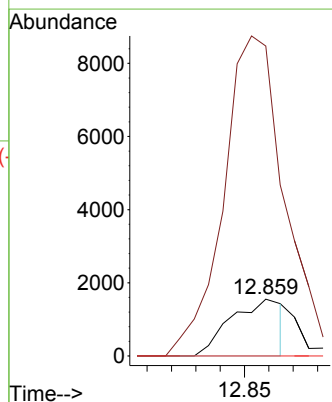
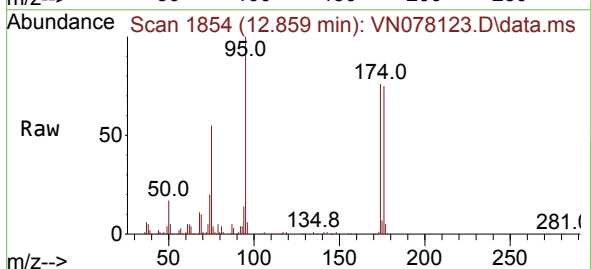
Instrument :
MSVOA_N
ClientSampleId :
TP-23-0A

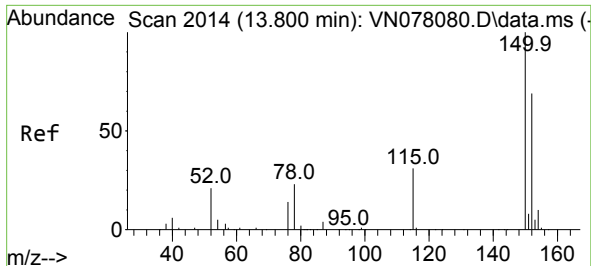
Tgt Ion:117 Resp: 644409
Ion Ratio Lower Upper
117 100
82 56.5 44.0 66.0
119 32.0 25.6 38.4



#71
Bromoform
Concen: 0.705 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.271 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

Tgt Ion:173 Resp: 2310
Ion Ratio Lower Upper
173 100
175 569.7 24.3 73.0#
254 0.0 0.0 0.0

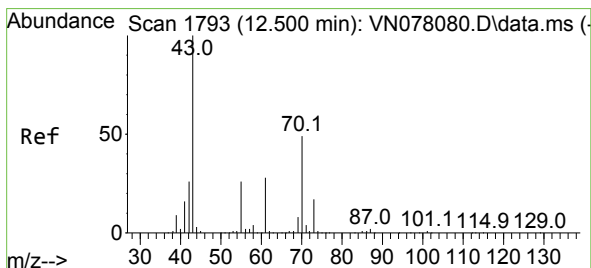
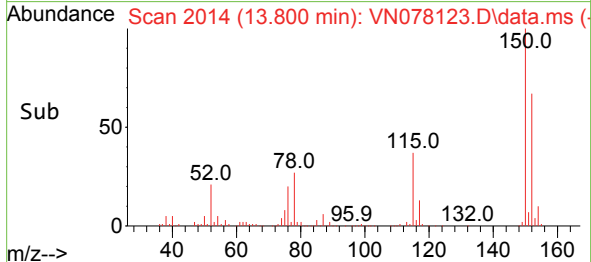
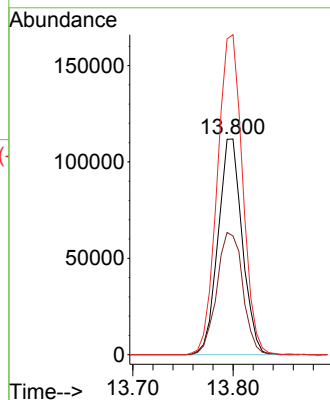
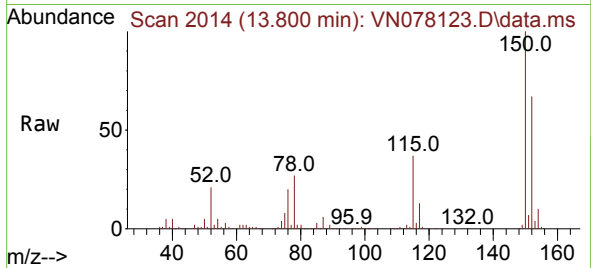




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN078123.D
 Acq: 08 Jun 2023 12:37

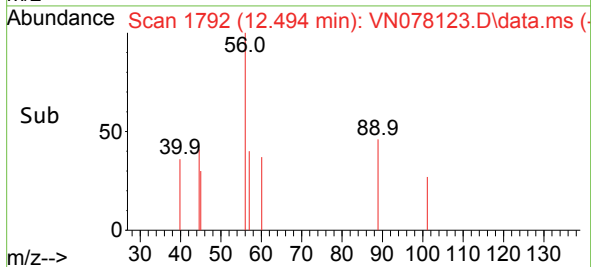
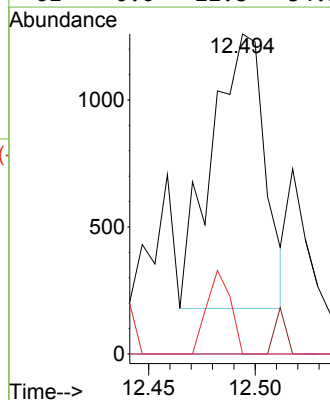
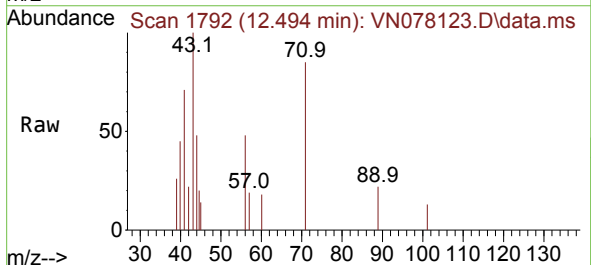
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-23-0A

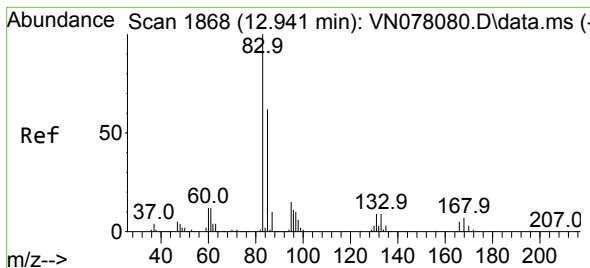
Tgt Ion:152 Resp: 187276
 Ion Ratio Lower Upper
 152 100
 115 61.0 32.3 96.8
 150 154.7 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.323 ug/l
 RT: 12.494 min Scan# 1792
 Delta R.T. -0.006 min
 Lab File: VN078123.D
 Acq: 08 Jun 2023 12:37

Tgt Ion: 43 Resp: 1884
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 13.6 21.4 32.0#
 61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.865 min Scan# 1855

Delta R.T. -0.076 min

Lab File: VN078123.D

Acq: 08 Jun 2023 12:37

Instrument :

MSVOA_N

ClientSampleId :

TP-23-0A

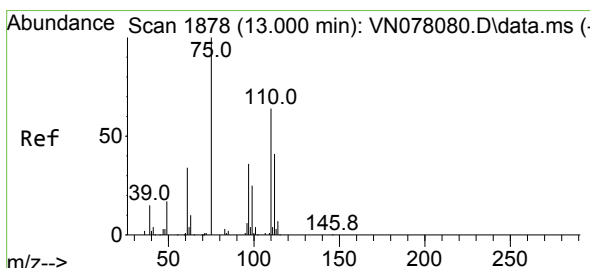
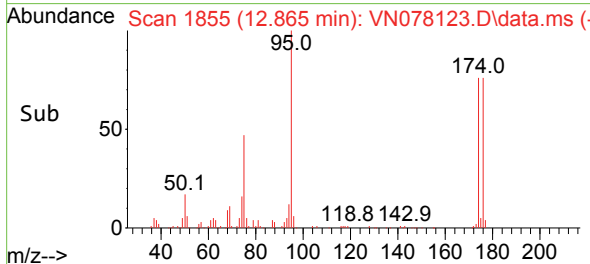
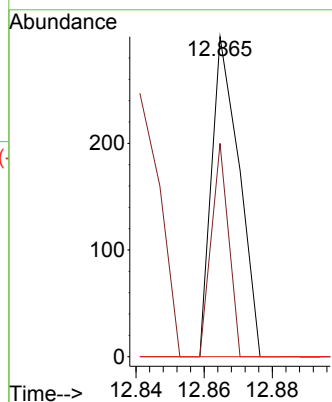
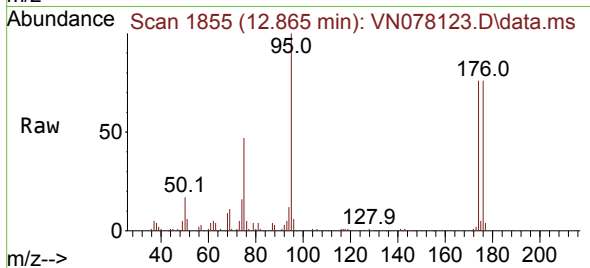
Tgt Ion: 83 Resp: 168

Ion Ratio Lower Upper

83 100

131 42.3 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 30.303 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078123.D

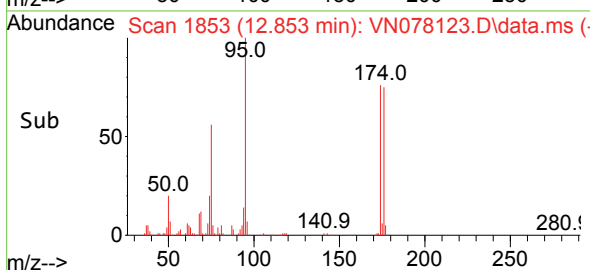
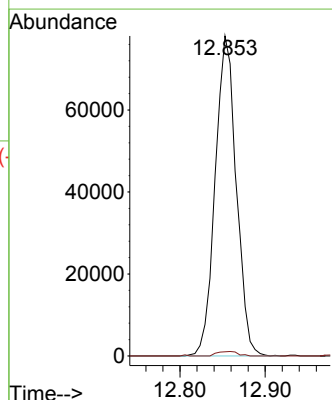
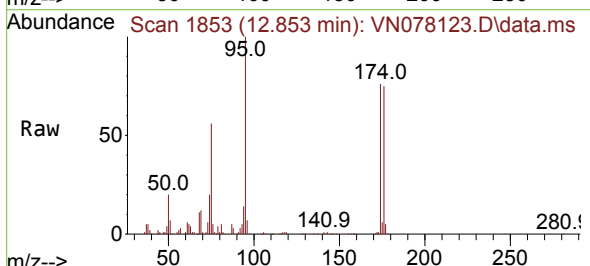
Acq: 08 Jun 2023 12:37

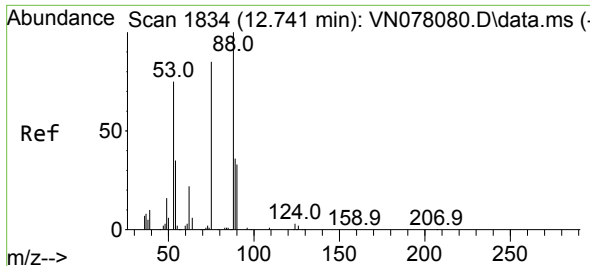
Tgt Ion: 75 Resp: 134160

Ion Ratio Lower Upper

75 100

77 1.4 84.5 253.5#

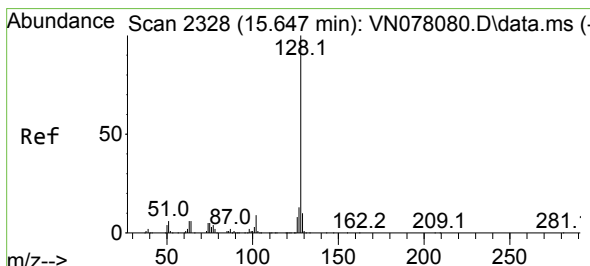
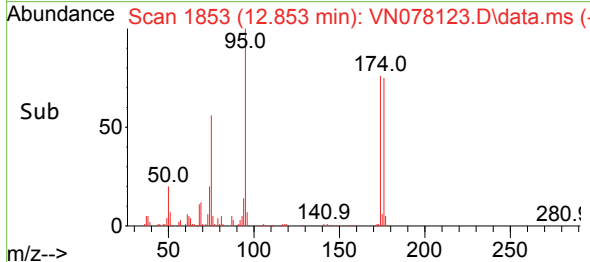
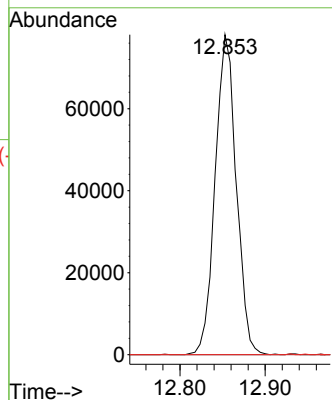
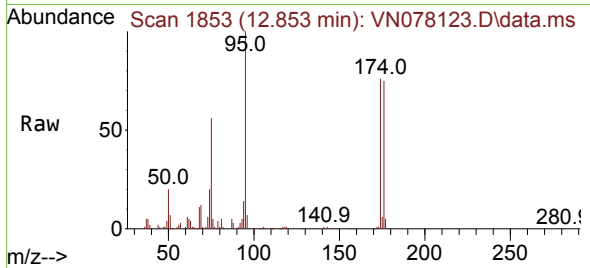




#81
trans-1,4-Dichloro-2-butene
Concen: 93.101 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

Instrument :
MSVOA_N
ClientSampleId :
TP-23-0A

Tgt Ion: 75 Resp: 134160
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#95
Naphthalene
Concen: 0.316 ug/l
RT: 15.659 min Scan# 2330
Delta R.T. 0.012 min
Lab File: VN078123.D
Acq: 08 Jun 2023 12:37

Tgt Ion:128 Resp: 2575
Ion Ratio Lower Upper
128 100
127 15.9 10.0 15.0#
129 0.0 8.7 13.1#

