

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081623\
 Data File : VN078908.D
 Acq On : 16 Aug 2023 17:18
 Operator : JC\MD
 Sample : 04022-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-15

Quant Time: Aug 17 01:19:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

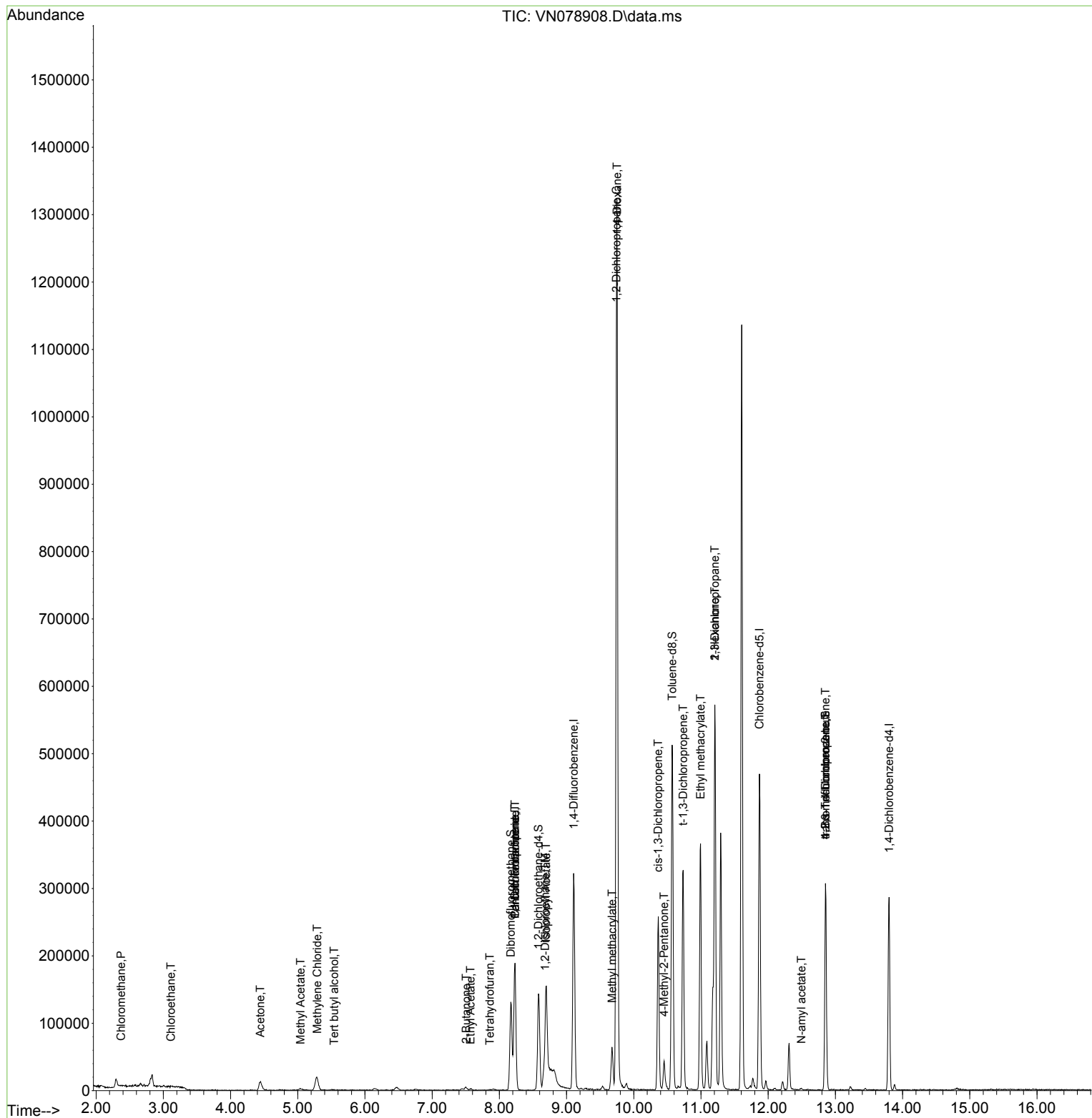
Internal Standards						
1) Pentafluorobenzene	8.235	168	128037	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	261187	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	262351	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	73988	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	116632	58.539	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.080%			
35) Dibromofluoromethane	8.171	113	90774	51.630	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.260%			
50) Toluene-d8	10.571	98	341240	52.271	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.540%			
62) 4-Bromofluorobenzene	12.853	95	101085	47.373	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.740%			
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	1332	0.537	ug/l #	42
6) Chloroethane	3.112	64	667	0.439	ug/l #	43
11) Tert butyl alcohol	5.542	59	128	0.383	ug/l #	72
16) Acetone	4.442	43	24201	29.439	ug/l #	71
18) Methyl Acetate	5.042	43	4377	1.260	ug/l #	70
20) Methylene Chloride	5.289	84	13635	7.783	ug/l #	71
25) 2-Butanone	7.506	43	8075	6.127	ug/l #	56
29) Tetrahydrofuran	7.859	42	219	0.251	ug/l #	42
31) Cyclohexane	8.235	56	3666	Below Cal	#	49
36) 1,1-Dichloropropene	8.230	75	12902	4.878	ug/l #	46
37) Ethyl Acetate	7.571	43	3635	1.228	ug/l #	77
38) Carbon Tetrachloride	8.235	117	15143	5.714	ug/l #	18
42) 1,2-Dichloroethane	8.682	62	706	0.242	ug/l #	73
43) Isopropyl Acetate	8.694	43	211566	40.451	ug/l #	70
45) 1,2-Dichloropropane	9.741	63	838	0.403	ug/l #	45
48) Methyl methacrylate	9.677	41	4113	1.735	ug/l #	33
49) 1,4-Dioxane	9.753	88	62	1.536	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	31759	10.238	ug/l #	80
53) t-1,3-Dichloropropene	10.735	75	839	0.278	ug/l #	67
54) cis-1,3-Dichloropropene	10.365	75	41906	12.728	ug/l #	69
56) Ethyl methacrylate	10.994	69	1704	0.571	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5751	1.671	ug/l #	42
59) 2-Hexanone	11.206	43	79596	35.426	ug/l #	46
74) N-amyl acetate	12.494	43	1863	0.598	ug/l #	40
76) 1,2,3-Trichloropropane	12.853	75	56735	31.824	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	56735	81.298	ug/l #	15

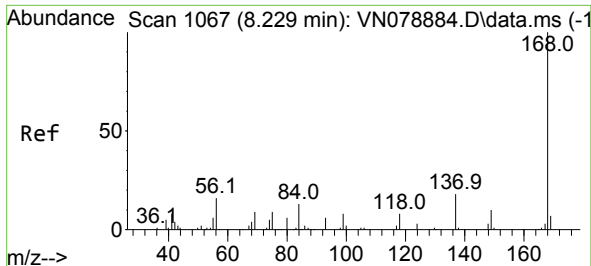
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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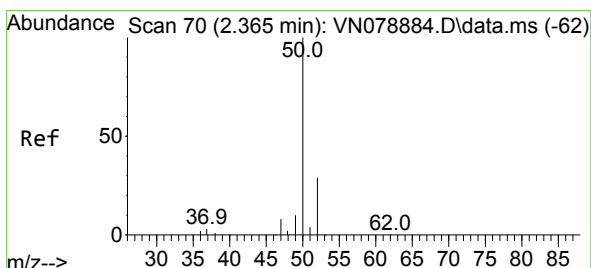
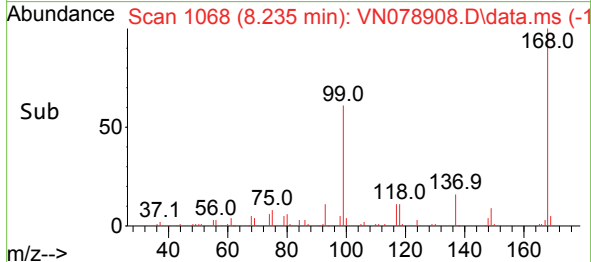
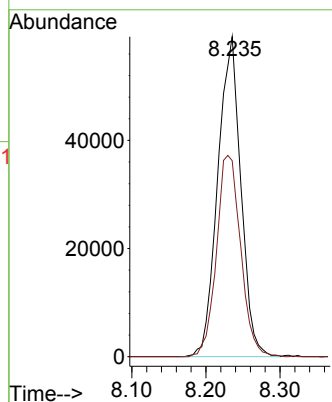
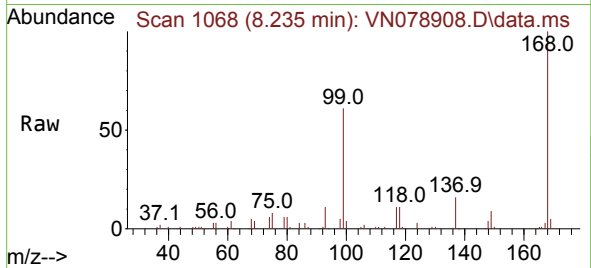




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN078908.D
Acq: 16 Aug 2023 17:18

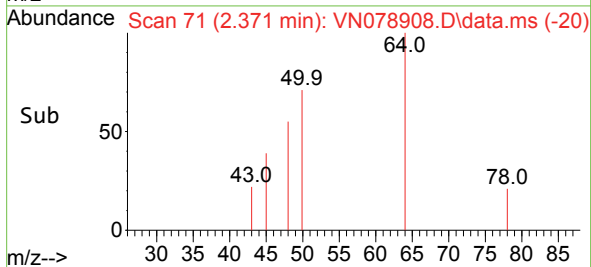
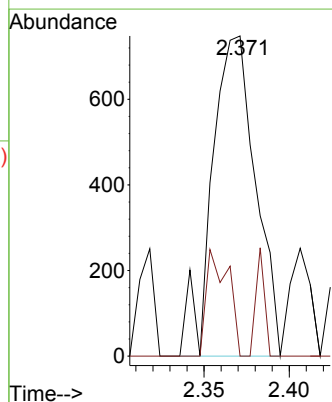
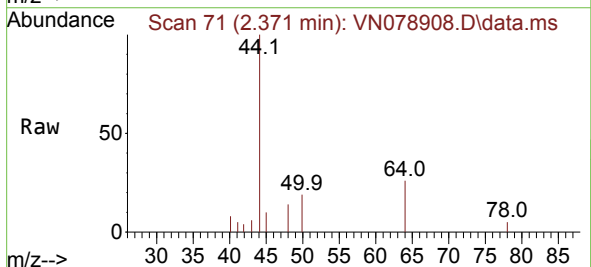
Instrument :
MSVOA_N
ClientSampleId :
TP-15

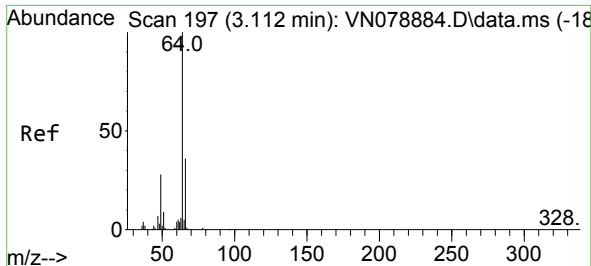
Tgt Ion:168 Resp: 128037
Ion Ratio Lower Upper
168 100
99 61.3 53.0 79.6



#3
Chloromethane
Concen: 0.537 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078908.D
Acq: 16 Aug 2023 17:18

Tgt Ion: 50 Resp: 1332
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

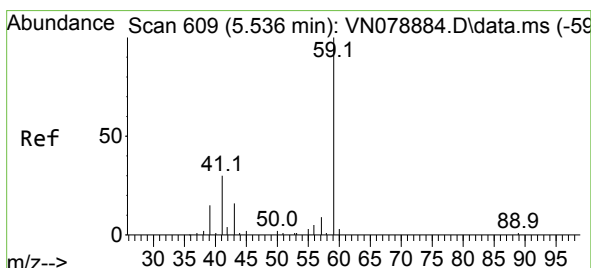
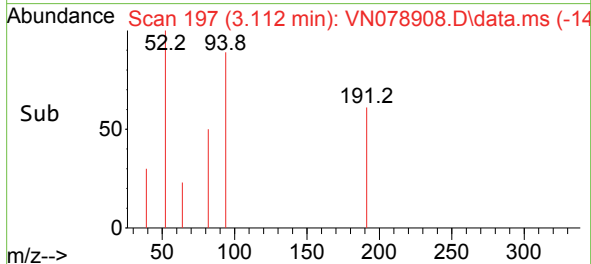
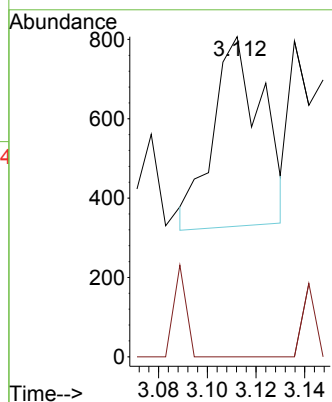
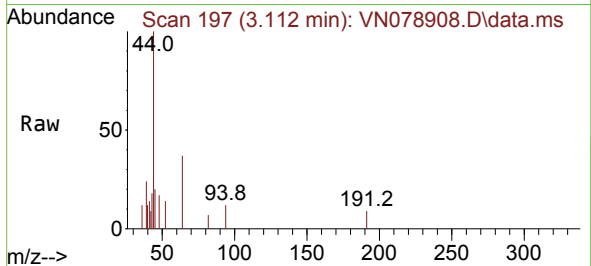




#6
Chloroethane
Concen: 0.439 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN078908.D
Acq: 16 Aug 2023 17:18

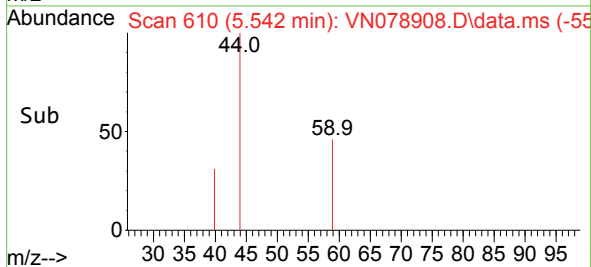
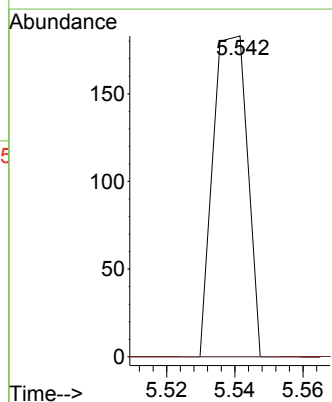
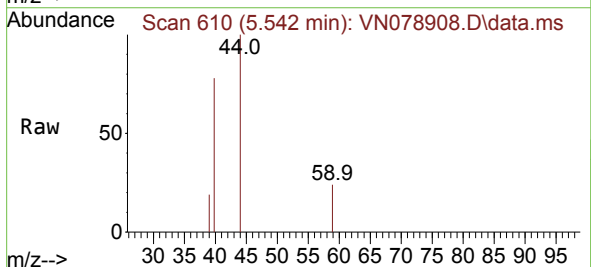
Instrument :
MSVOA_N
ClientSampleId :
TP-15

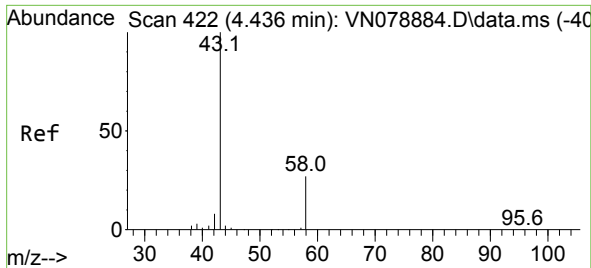
Tgt Ion: 64 Resp: 667
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.383 ug/l
RT: 5.542 min Scan# 610
Delta R.T. -0.000 min
Lab File: VN078908.D
Acq: 16 Aug 2023 17:18

Tgt Ion: 59 Resp: 128
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 29.439 ug/l

RT: 4.442 min Scan# 43

Delta R.T. -0.000 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

Instrument :

MSVOA_N

ClientSampleId :

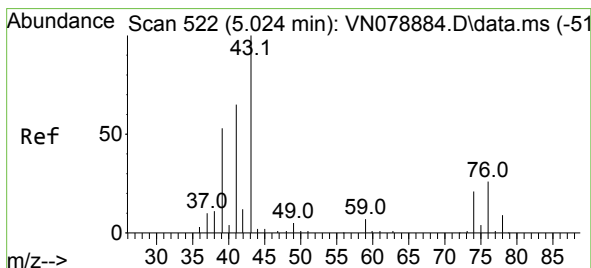
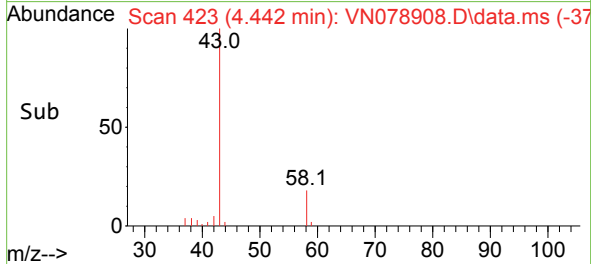
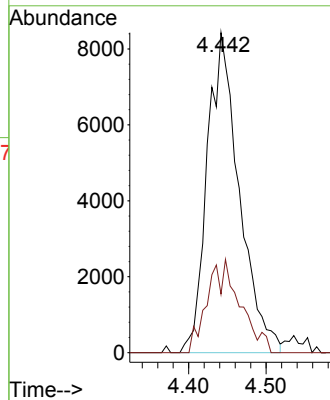
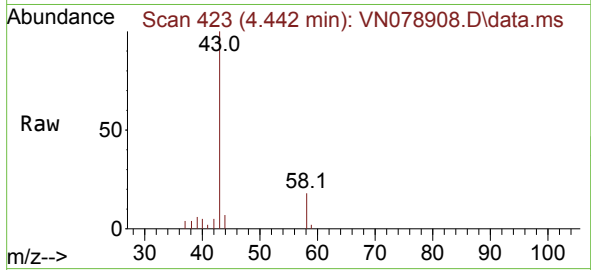
TP-15

Tgt Ion: 43 Resp: 24201

Ion Ratio Lower Upper

43 100

58 18.3 28.0 42.0#



#18

Methyl Acetate

Concen: 1.260 ug/l

RT: 5.042 min Scan# 525

Delta R.T. -0.000 min

Lab File: VN078908.D

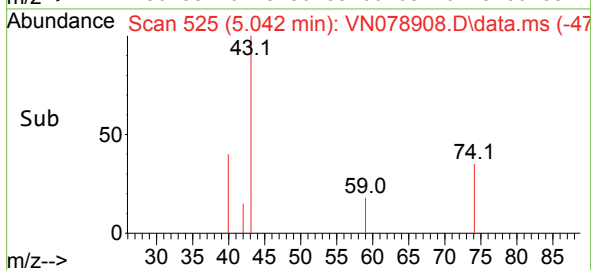
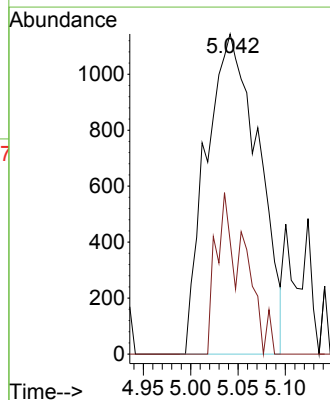
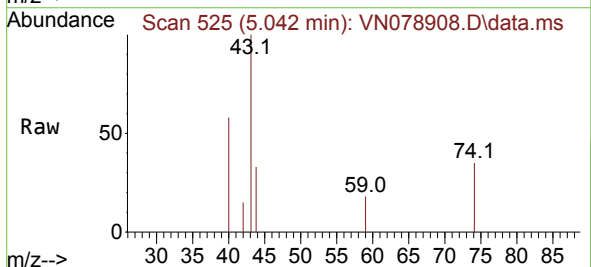
Acq: 16 Aug 2023 17:18

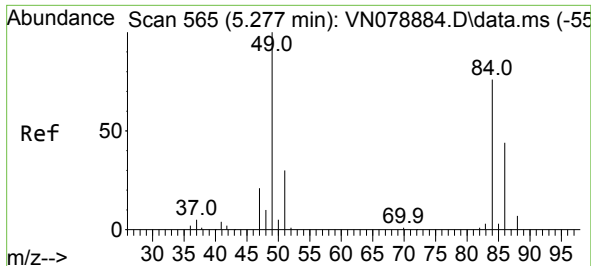
Tgt Ion: 43 Resp: 4377

Ion Ratio Lower Upper

43 100

74 15.8 26.2 39.4#

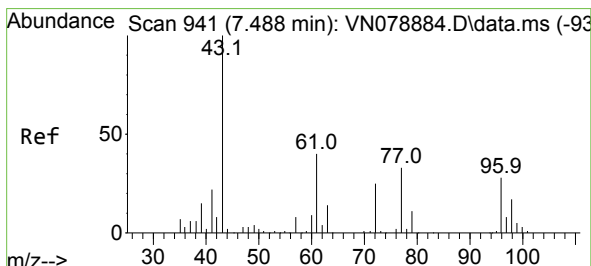
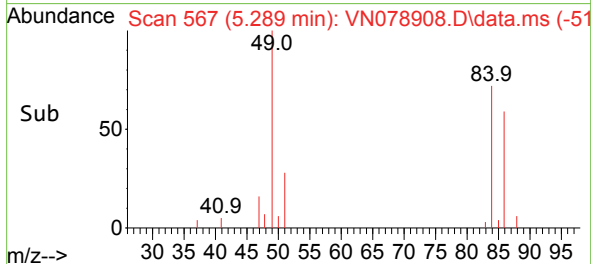
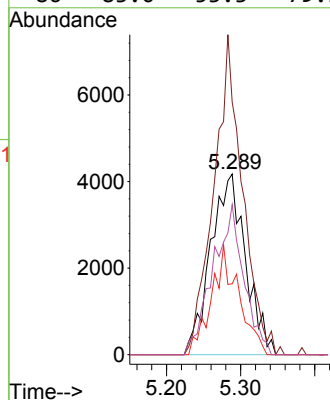
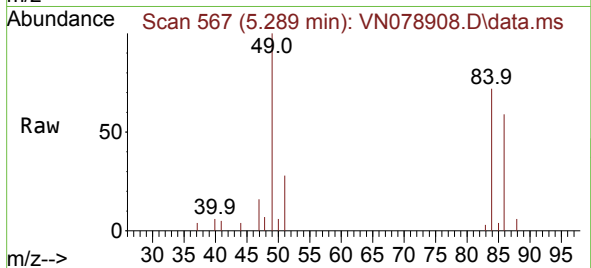




#20
Methylene Chloride
Concen: 7.783 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078908.D
Acq: 16 Aug 2023 17:18

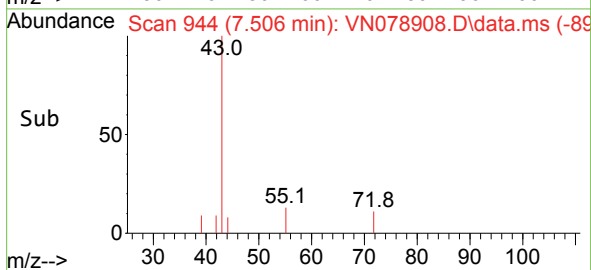
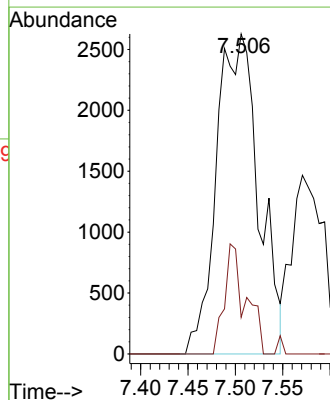
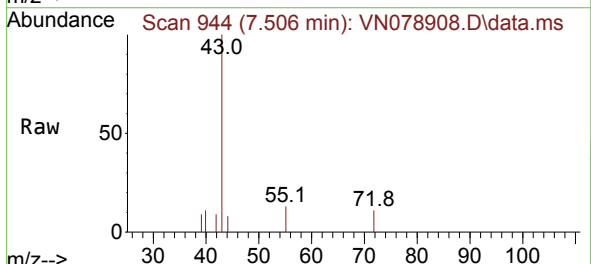
Instrument :
MSVOA_N
ClientSampleId :
TP-15

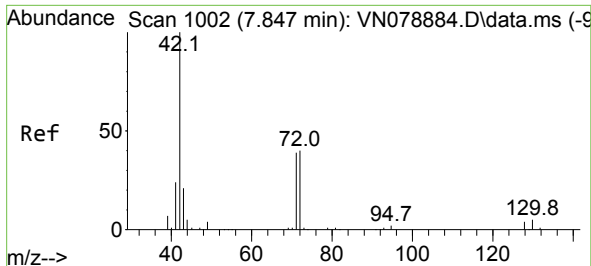
Tgt Ion: 84 Resp: 13635
Ion Ratio Lower Upper
84 100
49 139.7 79.7 119.5#
51 39.2 25.2 37.8#
86 83.0 53.3 79.9#



#25
2-Butanone
Concen: 6.127 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078908.D
Acq: 16 Aug 2023 17:18

Tgt Ion: 43 Resp: 8075
Ion Ratio Lower Upper
43 100
72 11.5 30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.251 ug/l

RT: 7.859 min Scan# 10

Delta R.T. 0.012 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

Instrument :

MSVOA_N

ClientSampleId :

TP-15

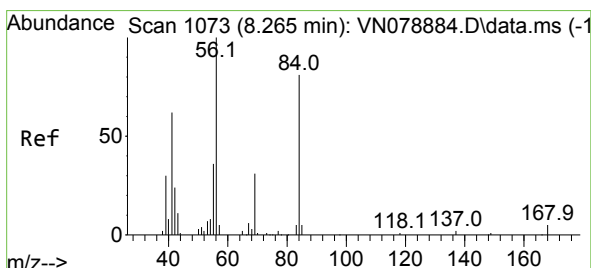
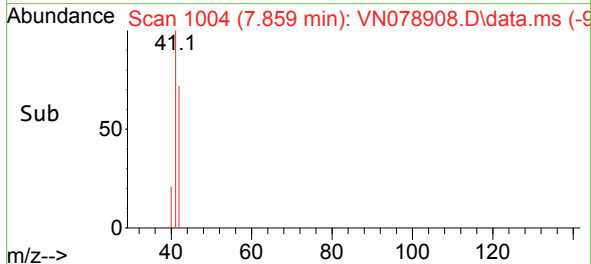
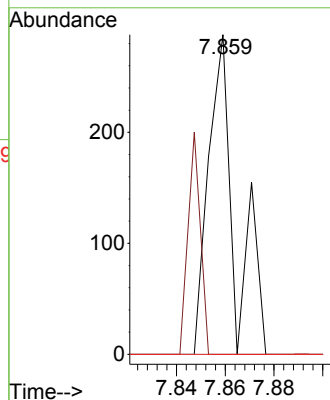
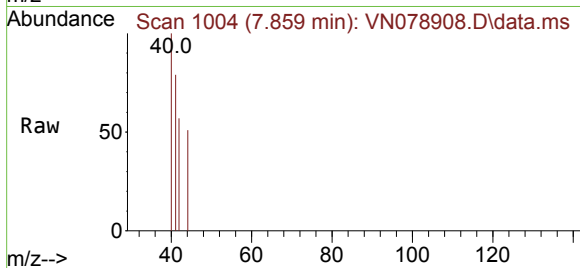
Tgt Ion: 42 Resp: 219

Ion Ratio Lower Upper

42 100

72 32.4 49.8 74.6#

71 0.0 47.4 71.2#



#31

Cyclohexane

Concen: Below Cal

RT: 8.235 min Scan# 1068

Delta R.T. -0.030 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

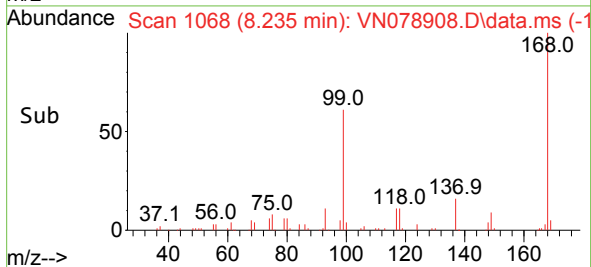
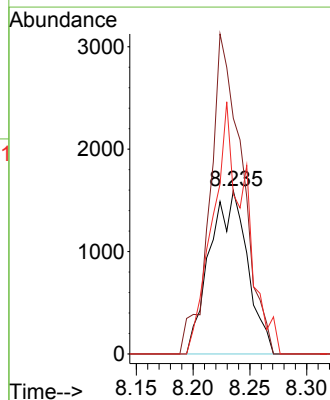
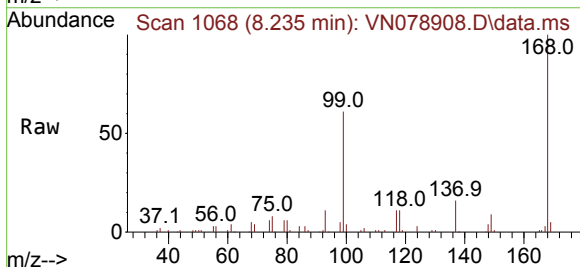
Tgt Ion: 56 Resp: 3666

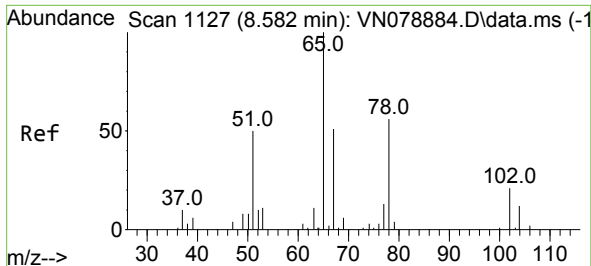
Ion Ratio Lower Upper

56 100

69 144.4 26.8 40.2#

84 97.8 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 58.539 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.001 min

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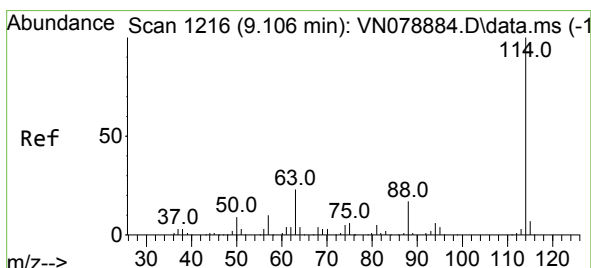
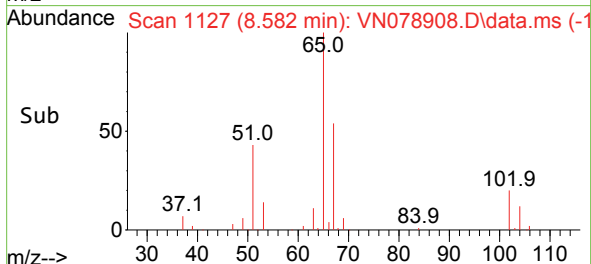
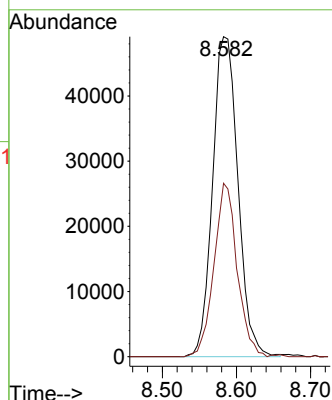
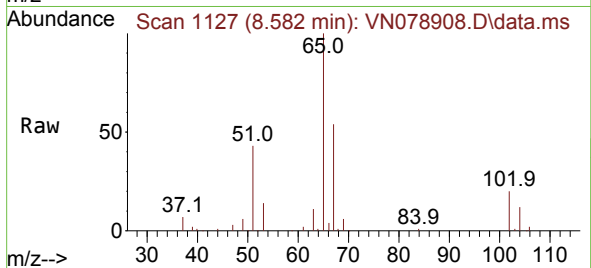
TP-15

Tgt Ion: 65 Resp: 116632

Ion Ratio Lower Upper

65 100

67 49.6 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

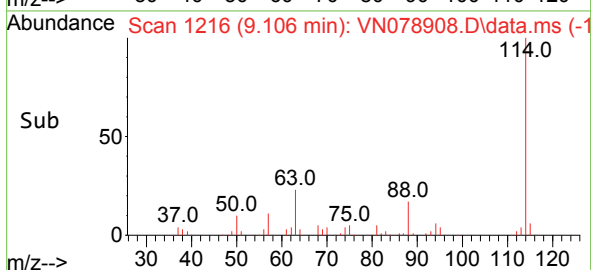
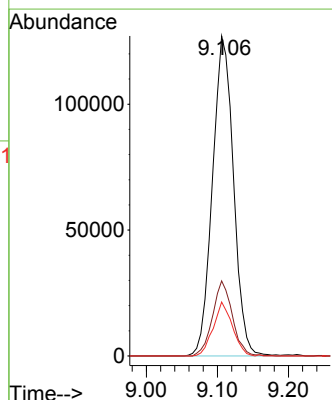
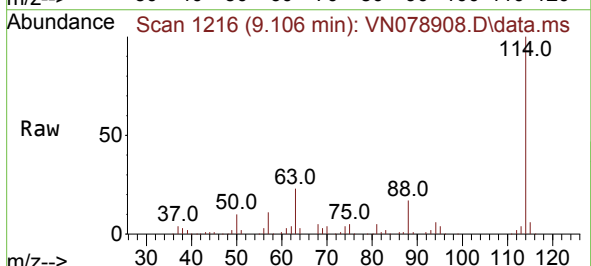
Tgt Ion: 114 Resp: 261187

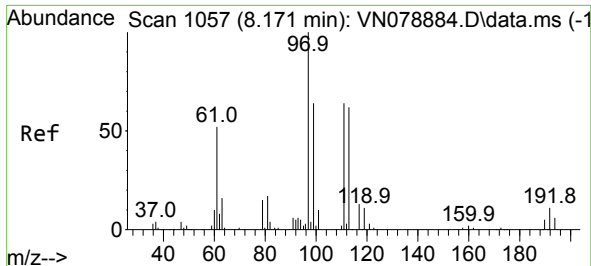
Ion Ratio Lower Upper

114 100

63 23.4 0.0 36.4

88 16.9 0.0 30.6





#35

Dibromofluoromethane

Concen: 51.630 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

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Instrument :

MSVOA_N

ClientSampleId :

TP-15

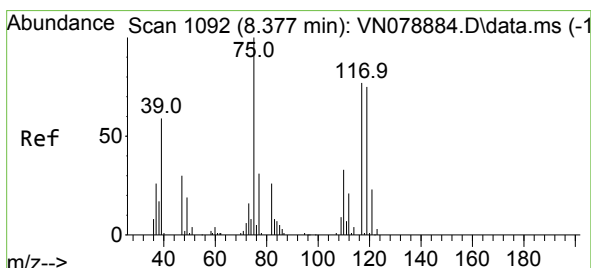
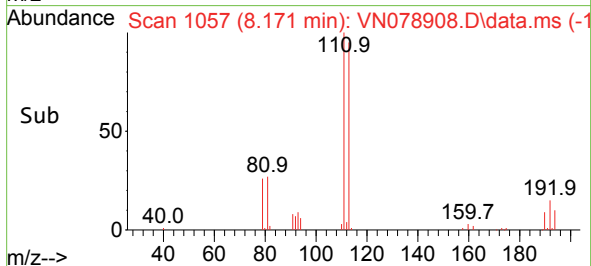
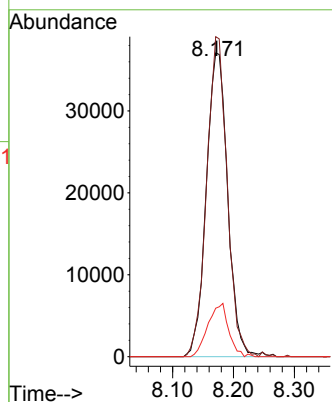
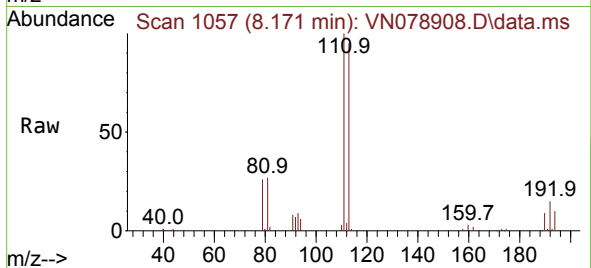
Tgt Ion:113 Resp: 90774

Ion Ratio Lower Upper

113 100

111 100.5 82.6 123.8

192 16.9 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.878 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

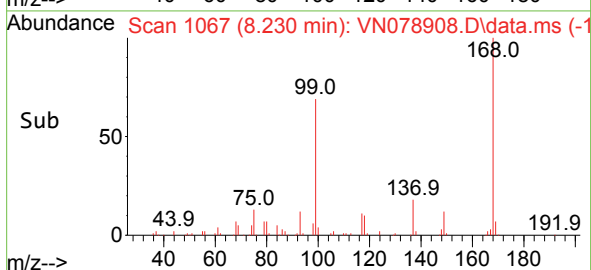
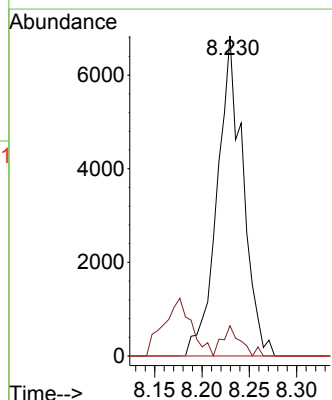
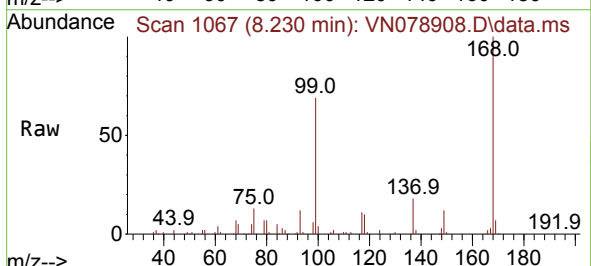
Tgt Ion: 75 Resp: 12902

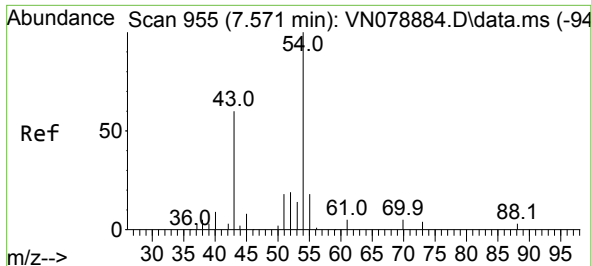
Ion Ratio Lower Upper

75 100

110 6.7 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.228 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

Instrument :

MSVOA_N

ClientSampleId :

TP-15

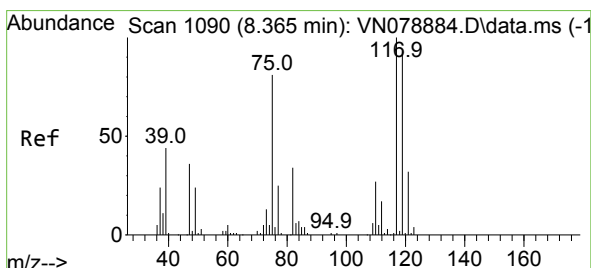
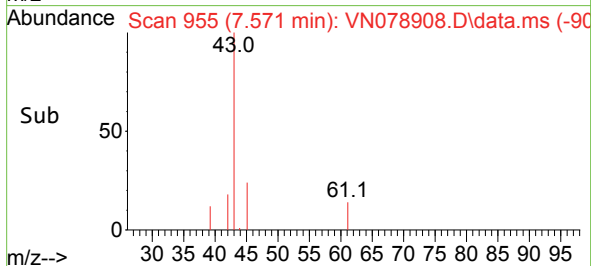
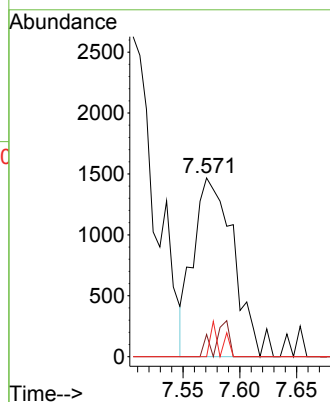
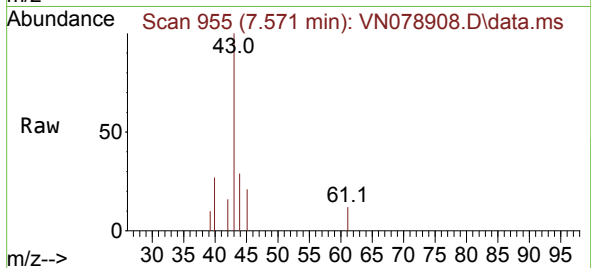
Tgt Ion: 43 Resp: 3635

Ion Ratio Lower Upper

43 100

61 7.0 13.2 19.8#

70 4.7 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 5.714 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.136 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

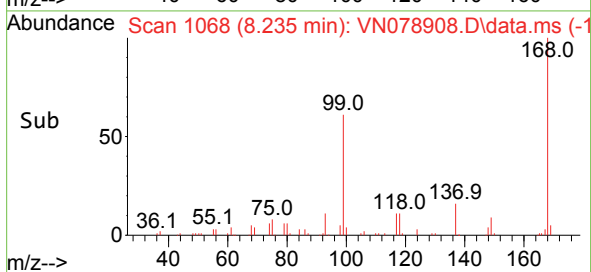
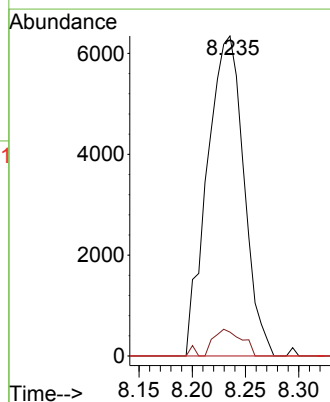
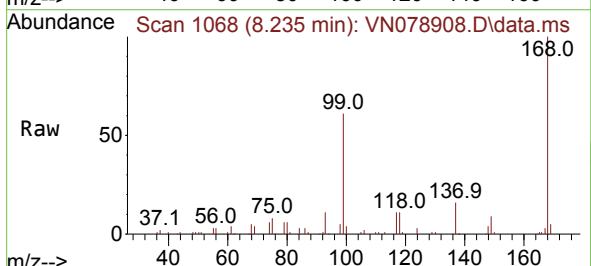
Tgt Ion: 117 Resp: 15143

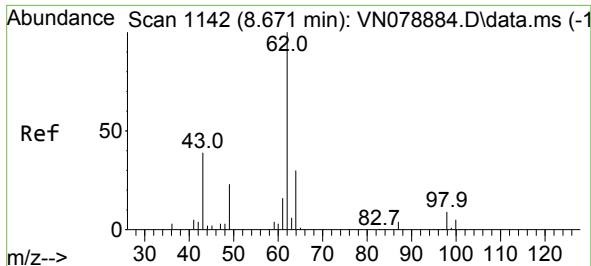
Ion Ratio Lower Upper

117 100

119 7.4 77.3 115.9#

121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.242 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.005 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

Instrument :

MSVOA_N

ClientSampleId :

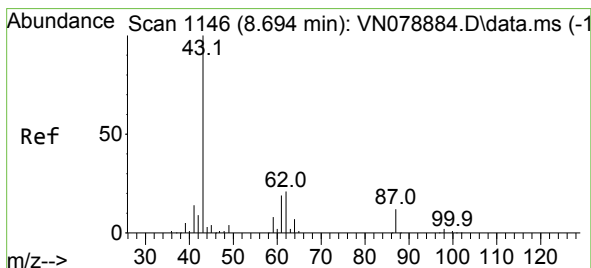
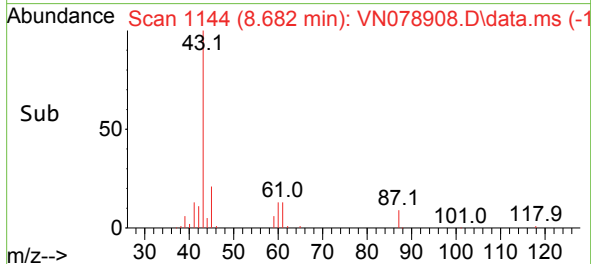
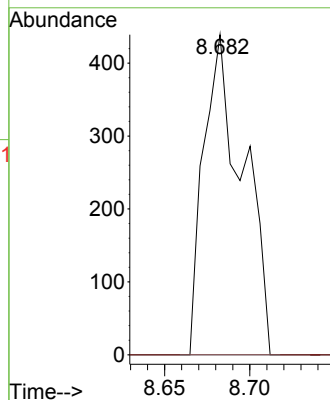
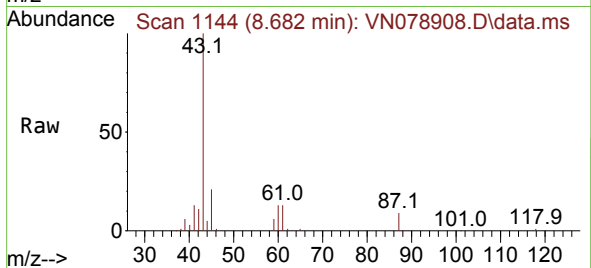
TP-15

Tgt Ion: 62 Resp: 706

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 40.451 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

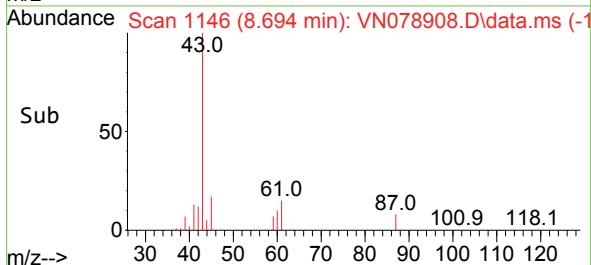
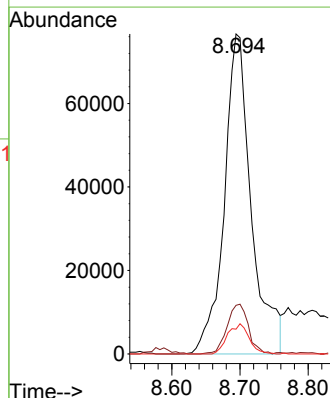
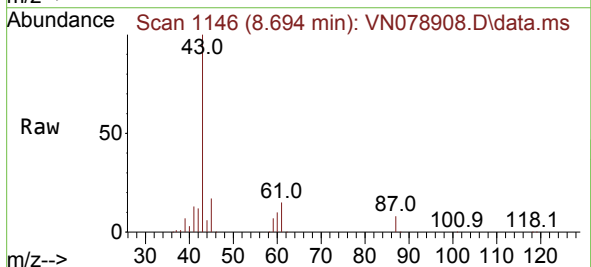
Tgt Ion: 43 Resp: 211566

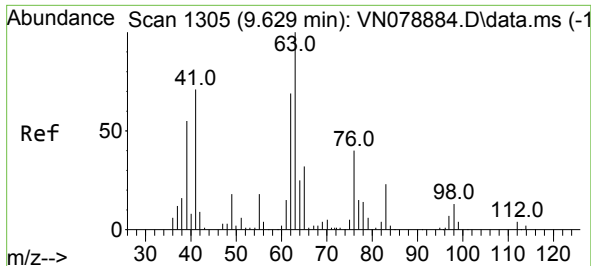
Ion Ratio Lower Upper

43 100

61 12.3 24.7 37.1#

87 7.5 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.403 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.117 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

Instrument :

MSVOA_N

ClientSampleId :

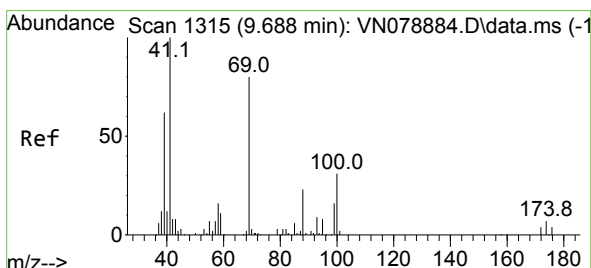
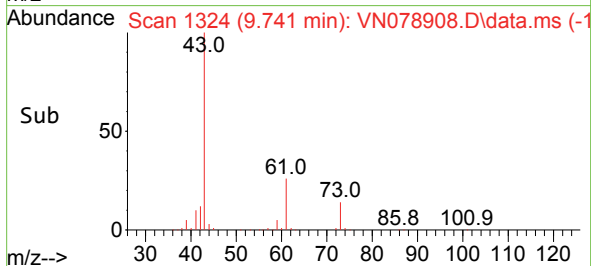
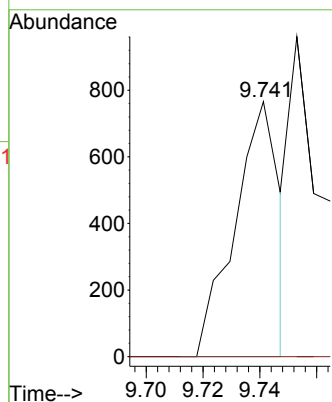
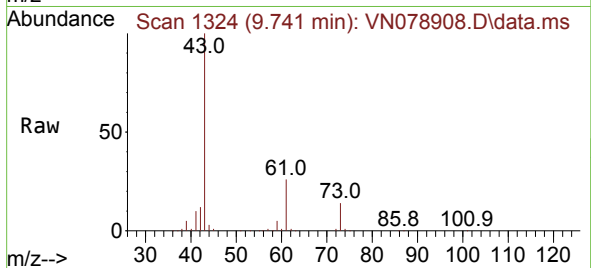
TP-15

Tgt Ion: 63 Resp: 838

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.735 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.011 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

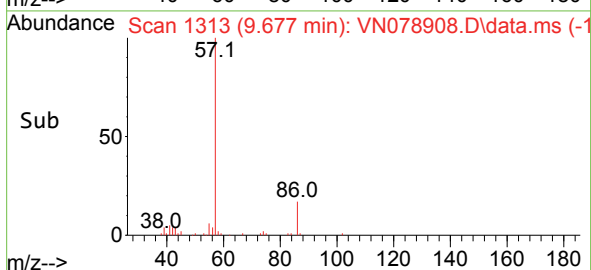
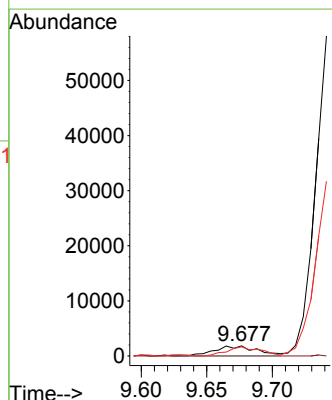
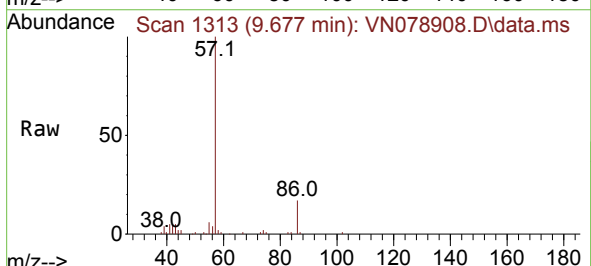
Tgt Ion: 41 Resp: 4113

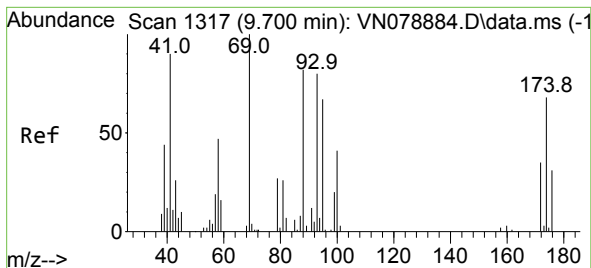
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 72.1 54.6 81.8





#49

1,4-Dioxane

Concen: 1.536 ug/l

RT: 9.753 min Scan# 11

Delta R.T. 0.053 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

Instrument :

MSVOA_N

ClientSampleId :

TP-15

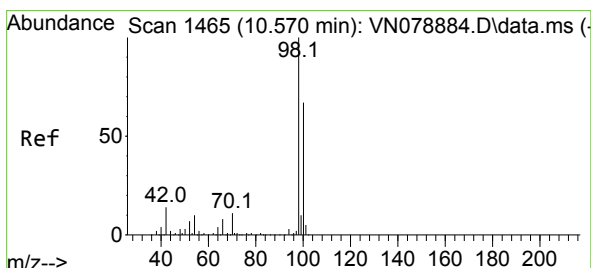
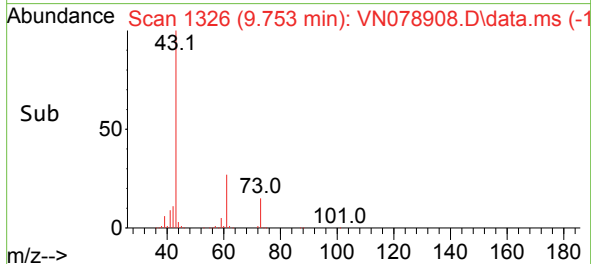
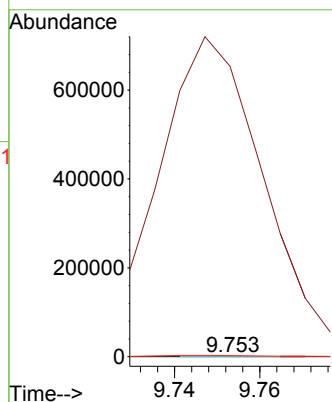
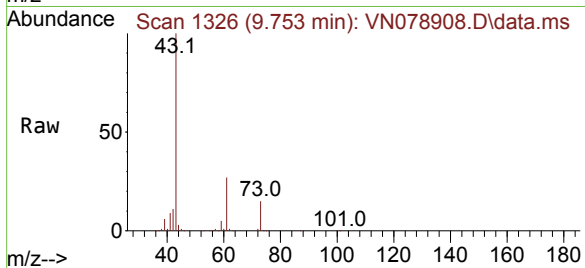
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 2069543.5 17.0 25.6#

58 9504.8 47.0 70.4#



#50

Toluene-d8

Concen: 52.271 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078908.D

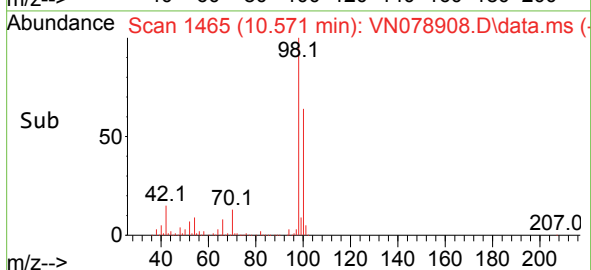
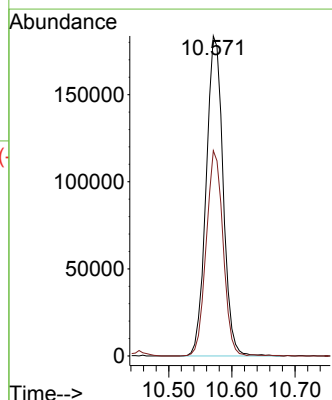
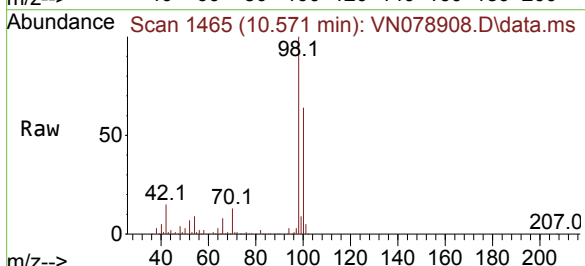
Acq: 16 Aug 2023 17:18

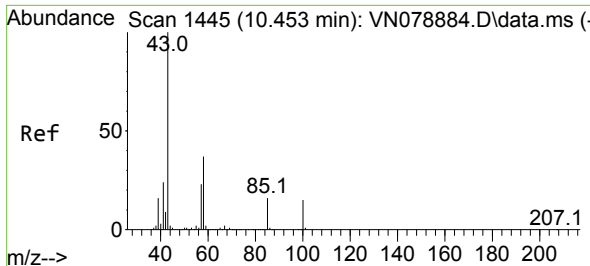
Tgt Ion: 98 Resp: 341240

Ion Ratio Lower Upper

98 100

100 63.9 52.0 78.0

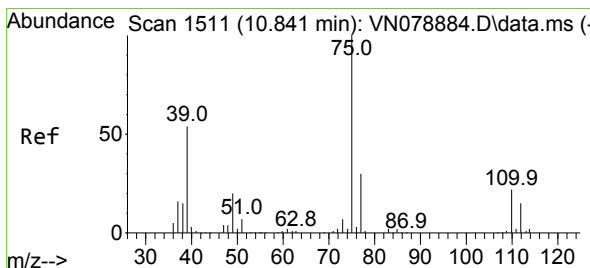
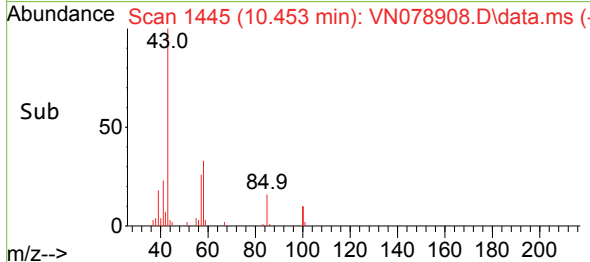
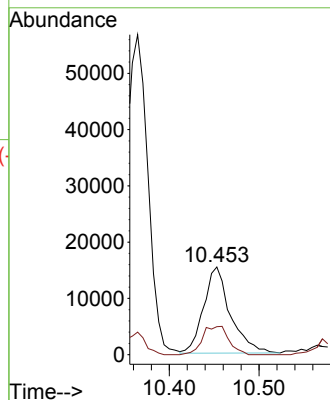
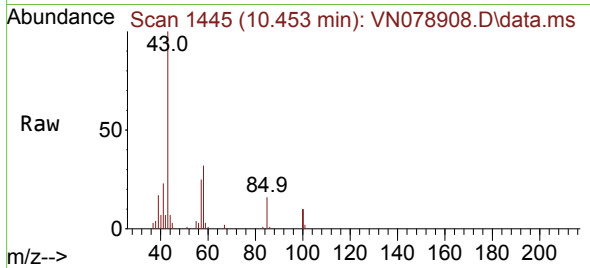




#51
4-Methyl-2-Pentanone
Concen: 10.238 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078908.D
Acq: 16 Aug 2023 17:18

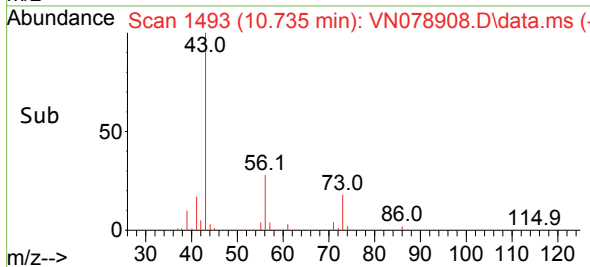
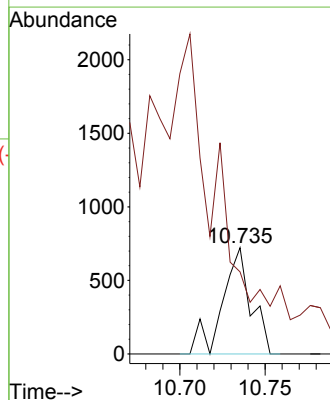
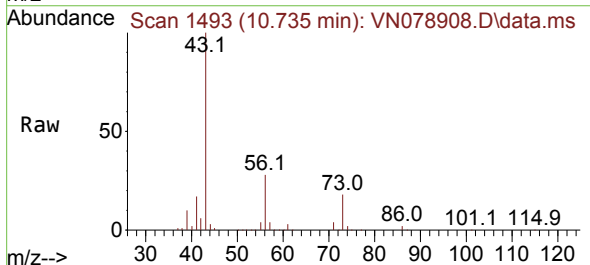
Instrument :
MSVOA_N
ClientSampleId :
TP-15

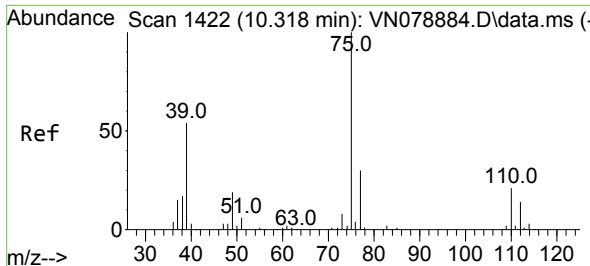
Tgt Ion: 43 Resp: 31759
Ion Ratio Lower Upper
43 100
58 32.3 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.278 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.106 min
Lab File: VN078908.D
Acq: 16 Aug 2023 17:18

Tgt Ion: 75 Resp: 839
Ion Ratio Lower Upper
75 100
77 13.2 25.4 38.0#

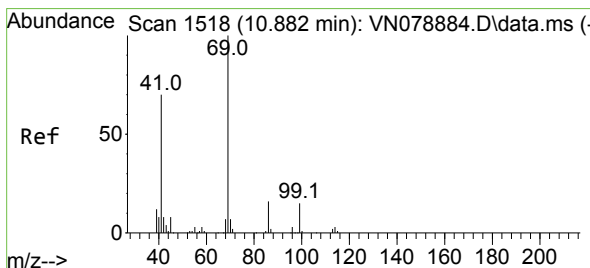
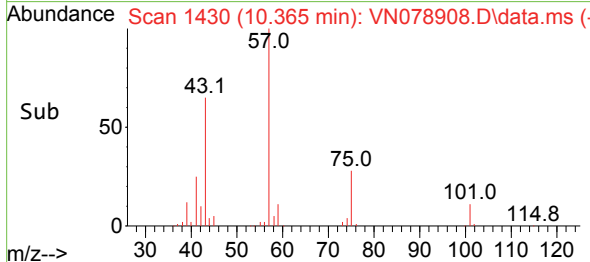
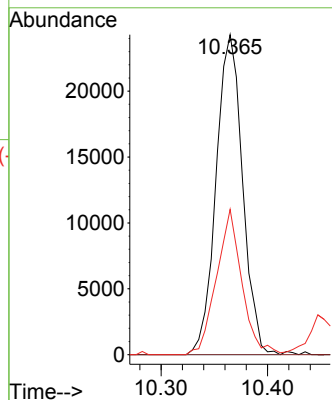
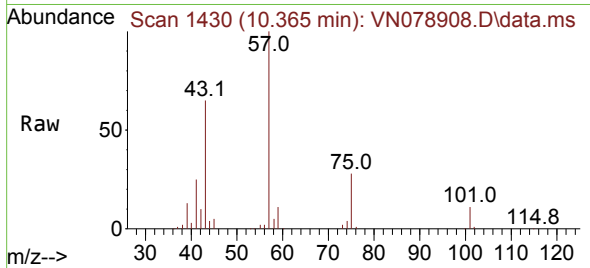




#54
cis-1,3-Dichloropropene
Concen: 12.728 ug/l
RT: 10.365 min Scan# 1422
Delta R.T. 0.047 min
Lab File: VN078908.D
Acq: 16 Aug 2023 17:18

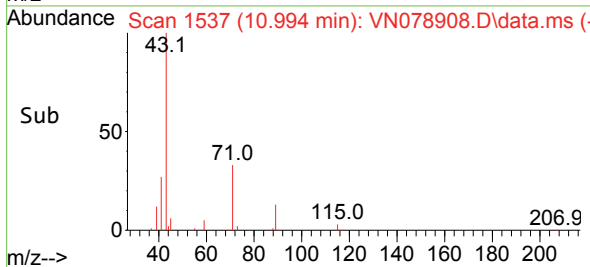
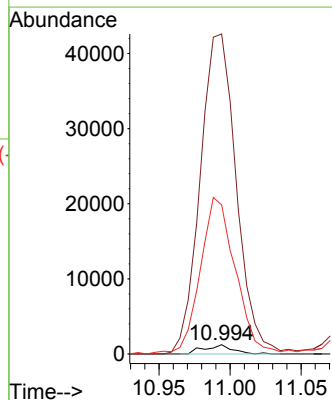
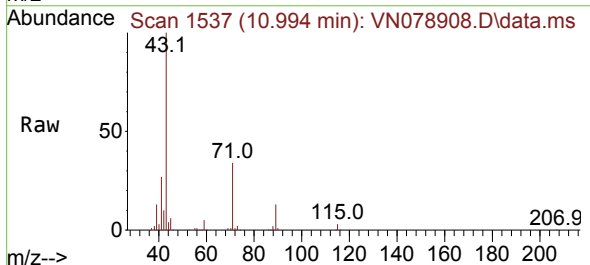
Instrument :
MSVOA_N
ClientSampleId :
TP-15

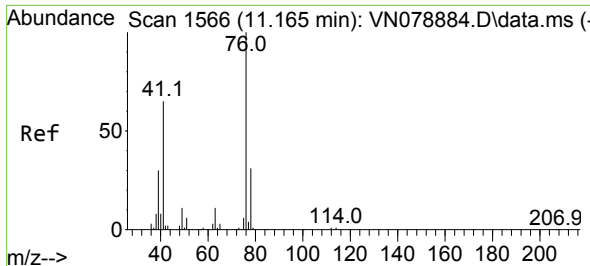
Tgt Ion: 75 Resp: 41906
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 45.4 31.6 47.4



#56
Ethyl methacrylate
Concen: 0.571 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.117 min
Lab File: VN078908.D
Acq: 16 Aug 2023 17:18

Tgt Ion: 69 Resp: 1704
Ion Ratio Lower Upper
69 100
41 4435.7 39.6 59.4#
39 2118.2 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.671 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

Instrument :

MSVOA_N

ClientSampleId :

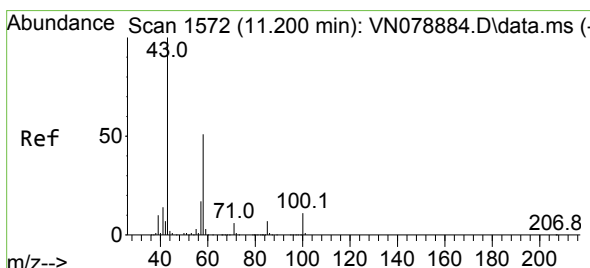
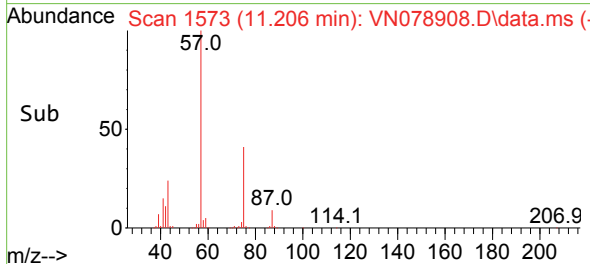
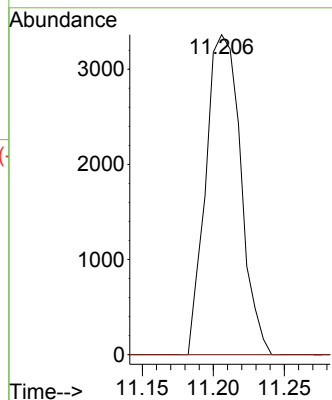
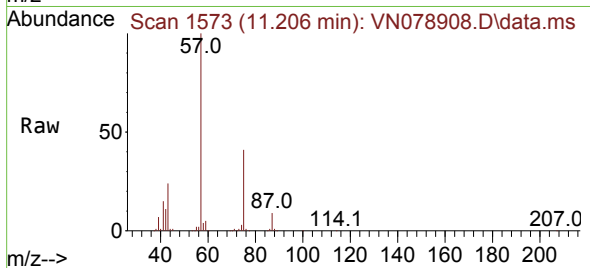
TP-15

Tgt Ion: 76 Resp: 5751

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 35.426 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN078908.D

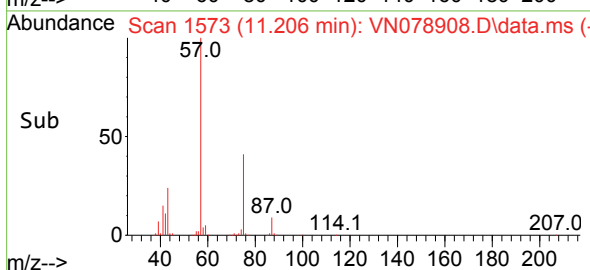
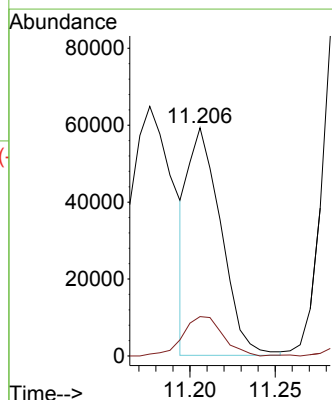
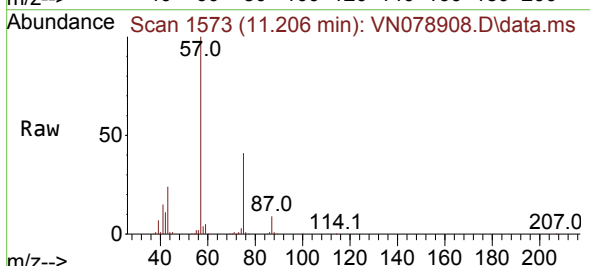
Acq: 16 Aug 2023 17:18

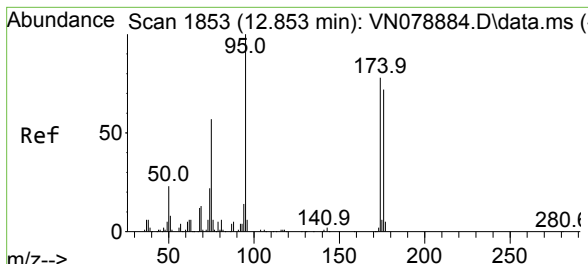
Tgt Ion: 43 Resp: 79596

Ion Ratio Lower Upper

43 100

58 21.1 31.7 95.1#

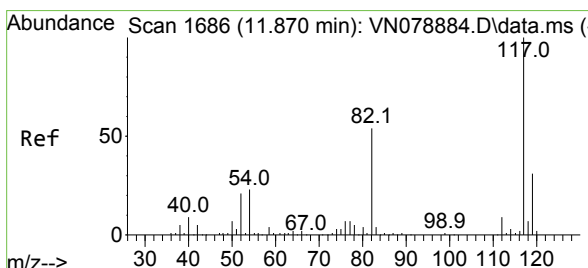
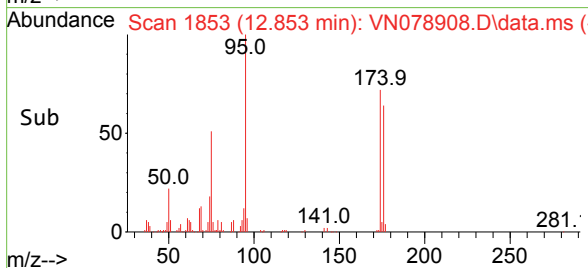
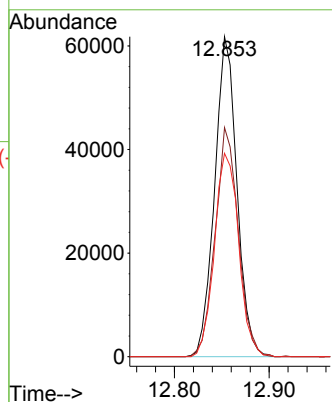
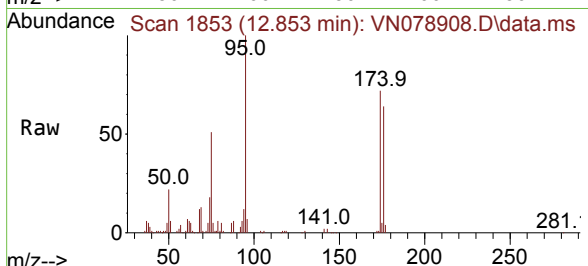




#62
4-Bromofluorobenzene
Concen: 47.373 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078908.D
Acq: 16 Aug 2023 17:18

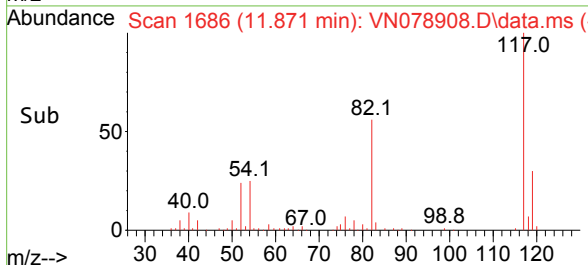
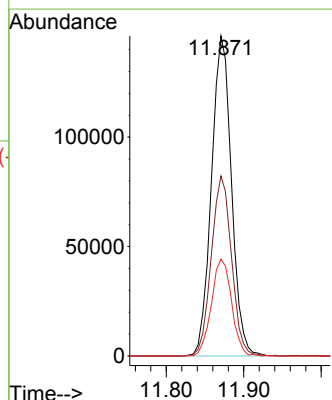
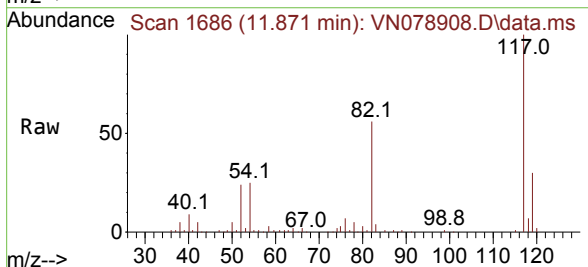
Instrument :
MSVOA_N
ClientSampleId :
TP-15

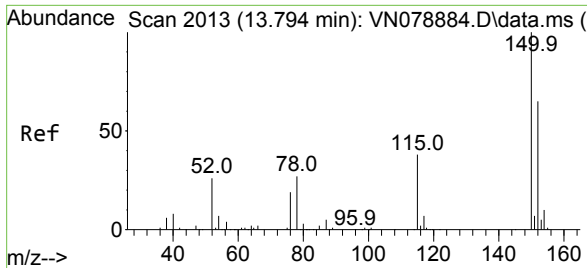
Tgt Ion:	95	Resp:	101085
Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	143.8
176	69.2	0.0	135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078908.D
Acq: 16 Aug 2023 17:18

Tgt Ion:	117	Resp:	262351
Ion	Ratio	Lower	Upper
117	100		
82	56.2	44.0	66.0
119	30.2	25.6	38.4

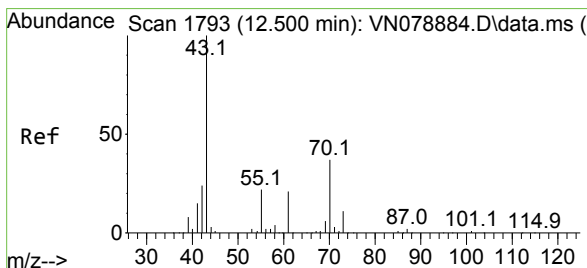
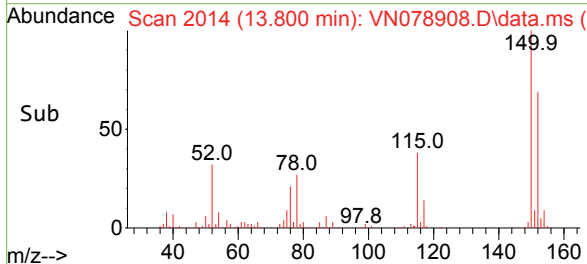
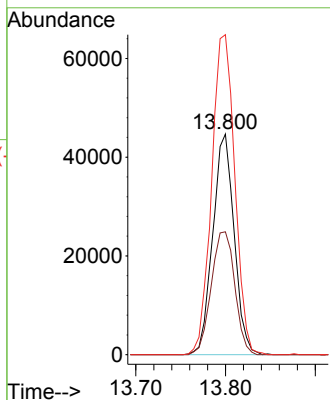
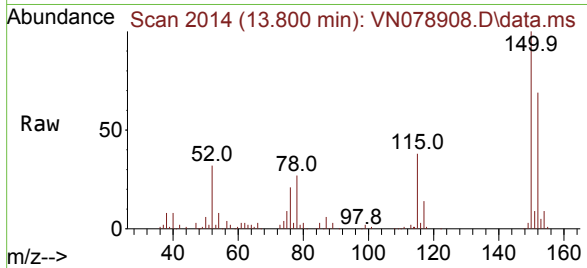




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN078908.D
 Acq: 16 Aug 2023 17:18

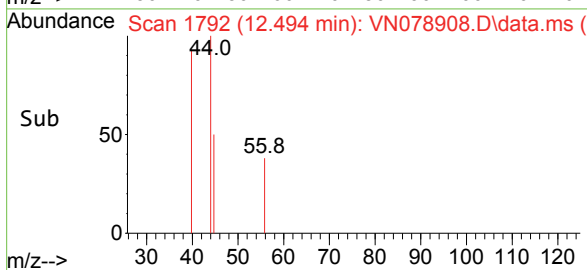
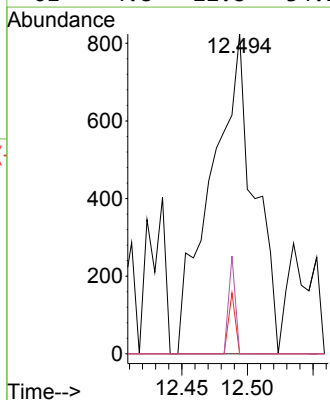
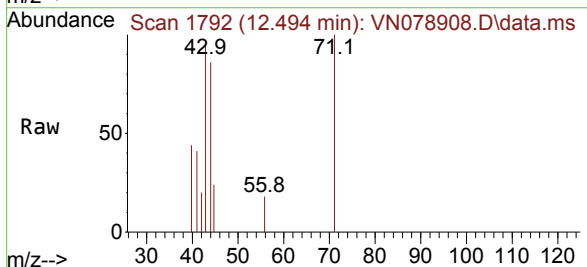
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-15

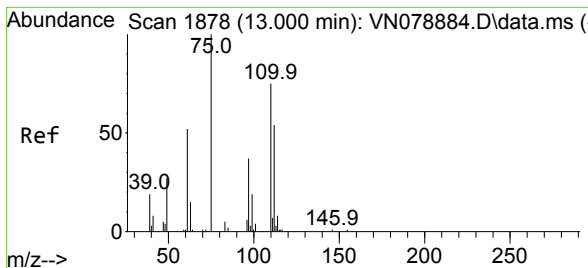
Tgt Ion:152 Resp: 73988
 Ion Ratio Lower Upper
 152 100
 115 61.2 32.3 96.8
 150 156.7 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.598 ug/l
 RT: 12.494 min Scan# 1792
 Delta R.T. -0.006 min
 Lab File: VN078908.D
 Acq: 16 Aug 2023 17:18

Tgt Ion: 43 Resp: 1863
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 3.0 21.4 32.0#
 61 4.8 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 31.824 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

Instrument :

MSVOA_N

ClientSampleId :

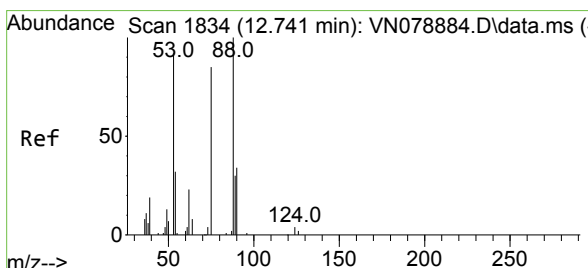
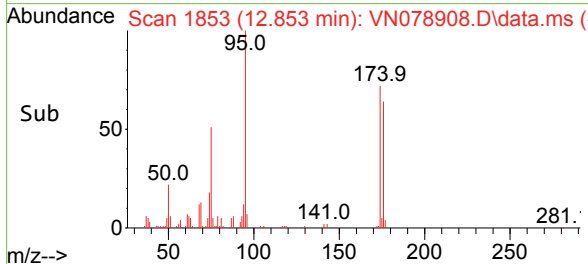
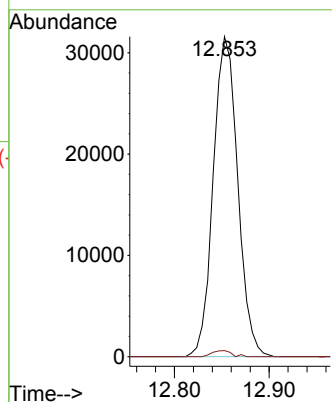
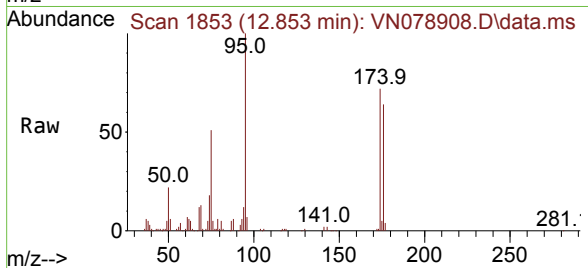
TP-15

Tgt Ion: 75 Resp: 56735

Ion Ratio Lower Upper

75 100

77 1.5 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.298 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078908.D

Acq: 16 Aug 2023 17:18

Tgt Ion: 75 Resp: 56735

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 38.8 58.2#

