

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020124\
 Data File : VN080866.D
 Acq On : 01 Feb 2024 13:38
 Operator : JC\MD
 Sample : P1311-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Quant Time: Feb 02 03:38:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N012924W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jan 29 12:54:23 2024
 Response via : Initial Calibration

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

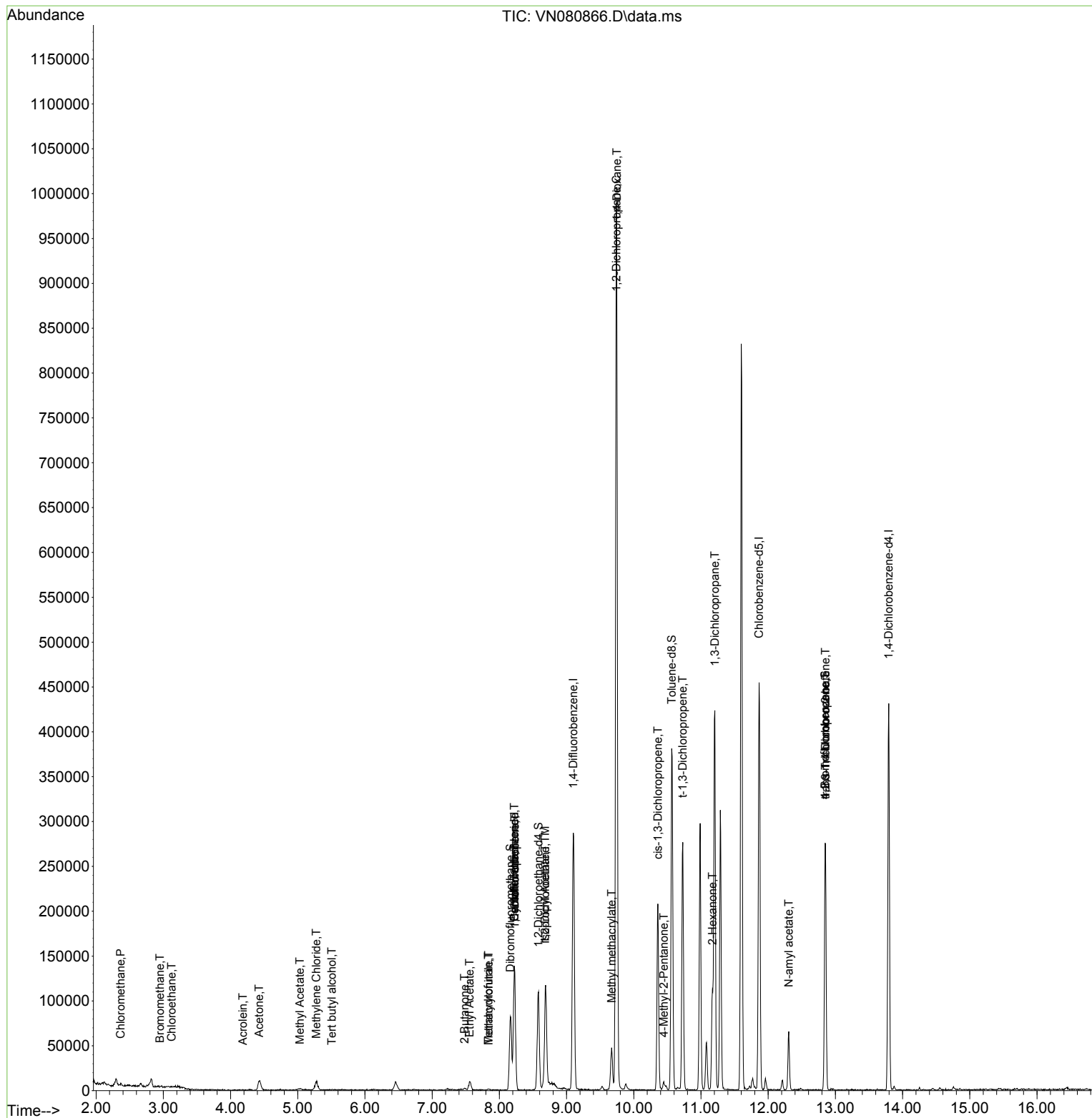
Internal Standards						
1) Pentafluorobenzene	8.224	168	83891	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	226517	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	229791	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	89131	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	81576	56.209	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.420%			
35) Dibromofluoromethane	8.165	113	58361	42.112	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 84.220%			
50) Toluene-d8	10.565	98	249901	46.073	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.140%			
62) 4-Bromofluorobenzene	12.847	95	94189	49.832	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.660%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1651	0.881	ug/l #	87
5) Bromomethane	2.948	94	187	0.328	ug/l #	6
6) Chloroethane	3.124	64	196	0.258	ug/l #	42
11) Tert butyl alcohol	5.506	59	332	1.403	ug/l #	72
13) Acrolein	4.183	56	268	0.898	ug/l #	66
16) Acetone	4.424	43	20206	38.389	ug/l	94
18) Methyl Acetate	5.030	43	2366	1.290	ug/l	96
20) Methylene Chloride	5.277	84	6276	4.542	ug/l #	79
25) 2-Butanone	7.483	43	3542	3.543	ug/l #	83
29) Tetrahydrofuran	7.835	42	561	0.829	ug/l #	49
31) Cyclohexane	8.224	56	3598	1.446	ug/l #	54
36) 1,1-Dichloropropene	8.230	75	9702	3.767	ug/l #	49
37) Ethyl Acetate	7.559	43	14727	5.554	ug/l #	92
38) Carbon Tetrachloride	8.224	117	10326	4.975	ug/l #	16
41) Methacrylonitrile	7.841	41	403	0.258	ug/l #	44
42) 1,2-Dichloroethane	8.682	62	504	0.204	ug/l #	75
43) Isopropyl Acetate	8.682	43	146875	30.424	ug/l #	87
45) 1,2-Dichloropropane	9.741	63	981	0.479	ug/l #	42
48) Methyl methacrylate	9.671	41	3456	1.477	ug/l #	15
49) 1,4-Dioxane	9.747	88	54	1.915	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	6391	2.368	ug/l	100
53) t-1,3-Dichloropropene	10.729	75	674	0.235	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	33252	10.645	ug/l #	73
57) 1,3-Dichloropropane	11.206	76	4606	1.467	ug/l #	43
59) 2-Hexanone	11.171	43	95793	45.696	ug/l #	26
74) N-amyl acetate	12.306	43	21049	4.154	ug/l #	55
76) 1,2,3-Trichloropropane	12.853	75	55535	20.659	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	55535	53.221	ug/l #	14

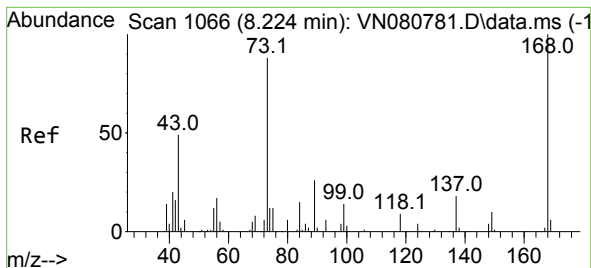
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N012924W.M
Quant Title : SW846 8260
QLast Update : Mon Jan 29 12:54:23 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN080866.D

Acq: 01 Feb 2024 13:38

Instrument :

MSVOA_N

ClientSampleId :

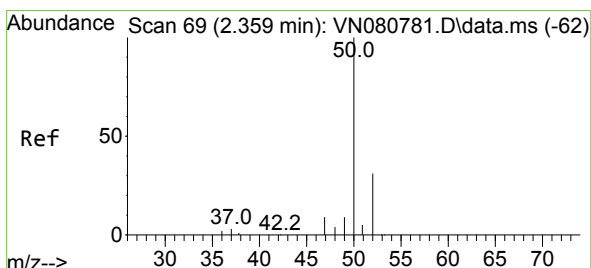
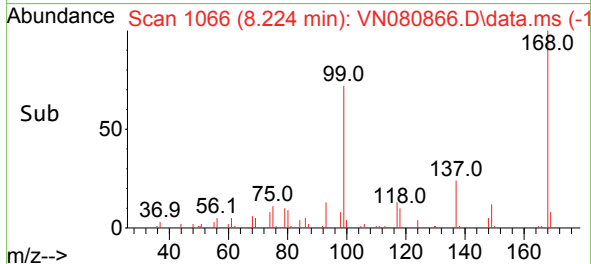
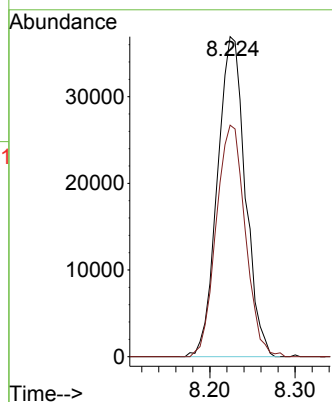
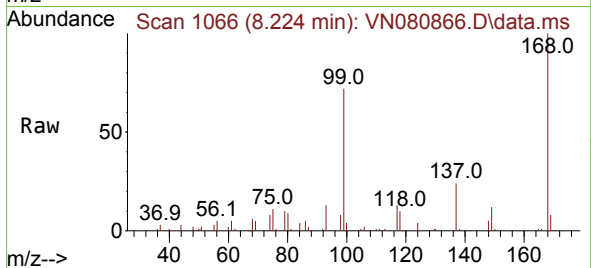
TP-1

Tgt Ion:168 Resp: 83891

Ion Ratio Lower Upper

168 100

99 72.3 59.9 89.9



#3

Chloromethane

Concen: 0.881 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080866.D

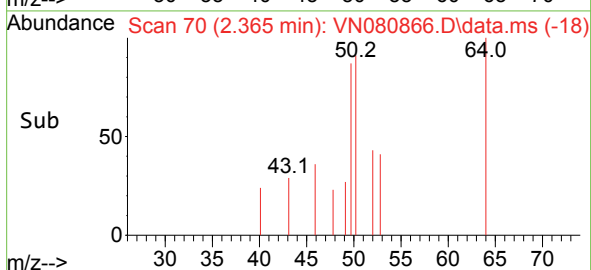
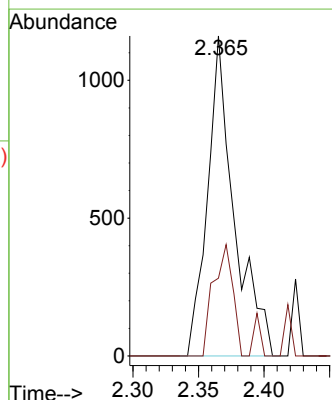
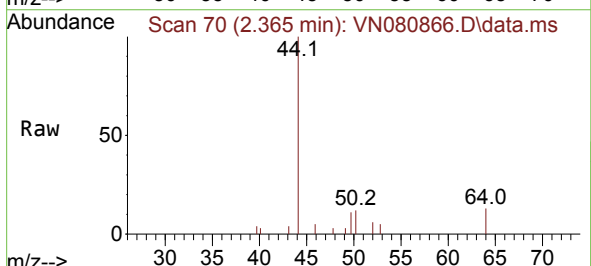
Acq: 01 Feb 2024 13:38

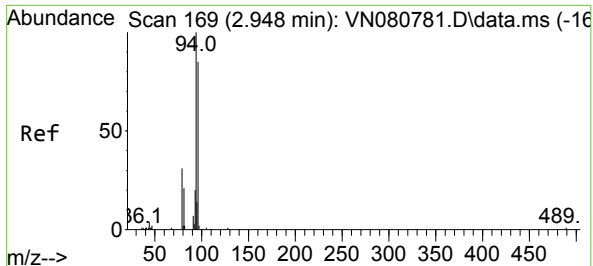
Tgt Ion: 50 Resp: 1651

Ion Ratio Lower Upper

50 100

52 24.3 25.0 37.4#

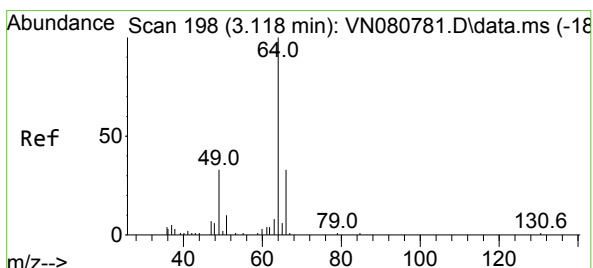
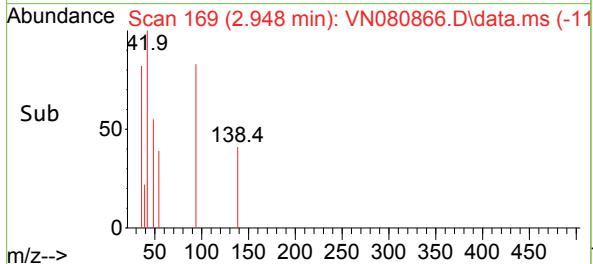
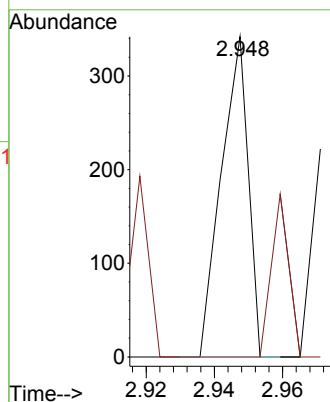
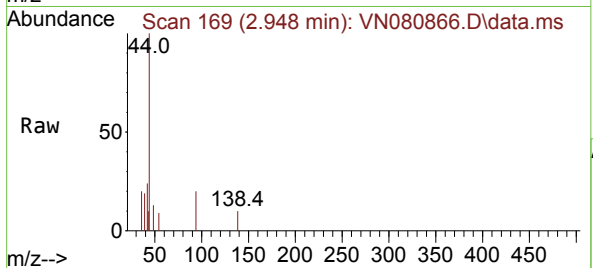




#5
Bromomethane
Concen: 0.328 ug/l
RT: 2.948 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

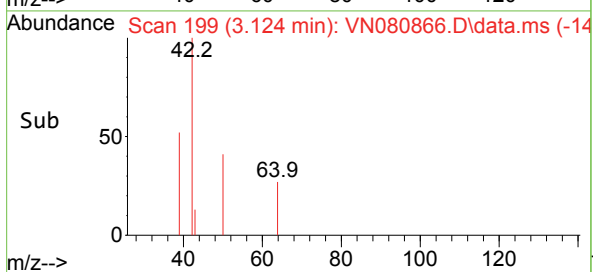
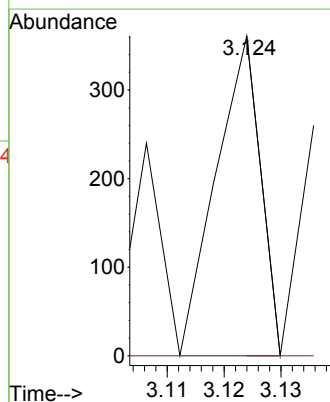
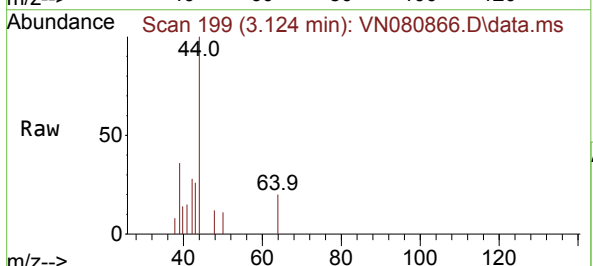
Instrument :
MSVOA_N
ClientSampleId :
TP-1

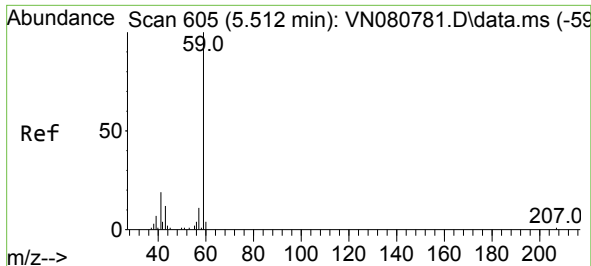
Tgt Ion: 94 Resp: 187
Ion Ratio Lower Upper
94 100
96 0.0 69.2 103.8#



#6
Chloroethane
Concen: 0.258 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Tgt Ion: 64 Resp: 196
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#

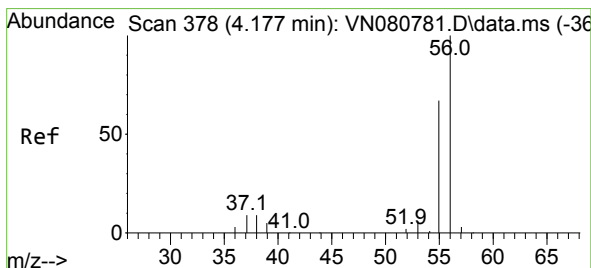
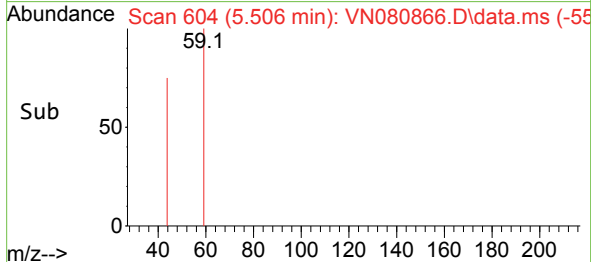
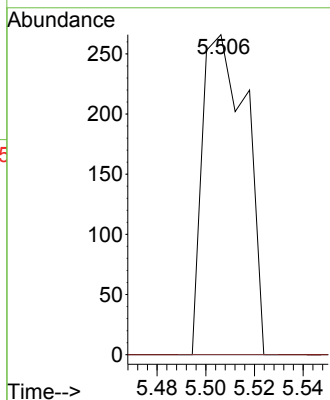
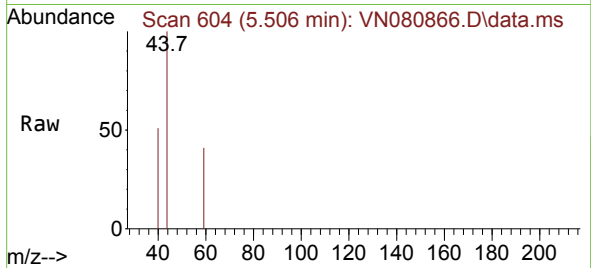




#11
Tert butyl alcohol
Concen: 1.403 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

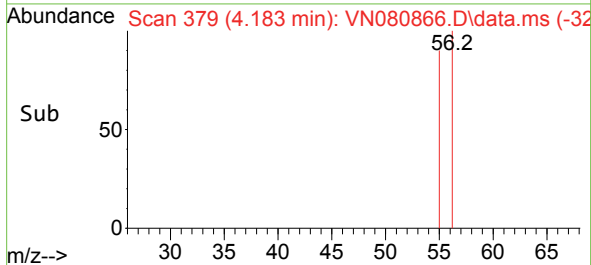
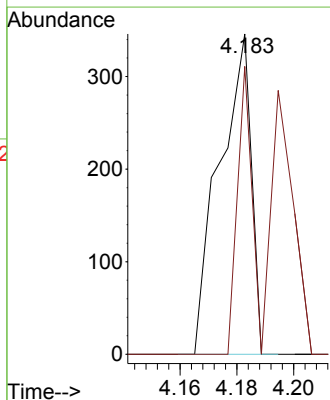
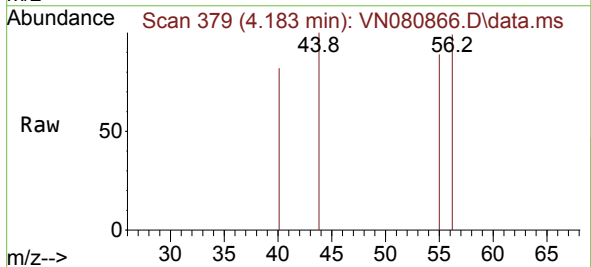
Instrument :
MSVOA_N
ClientSampleId :
TP-1

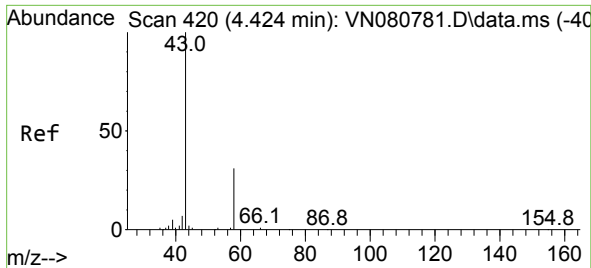
Tgt Ion: 59 Resp: 332
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.898 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Tgt Ion: 56 Resp: 268
Ion Ratio Lower Upper
56 100
55 41.0 55.3 82.9#

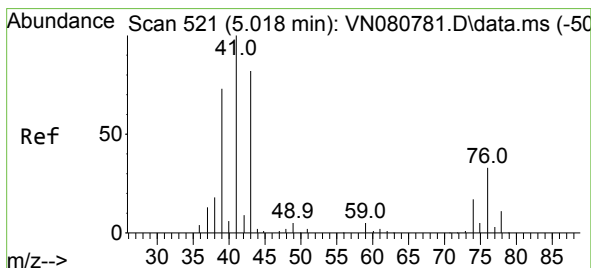
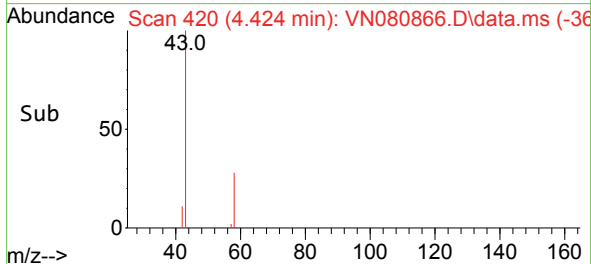
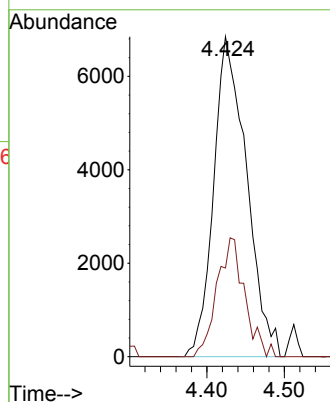
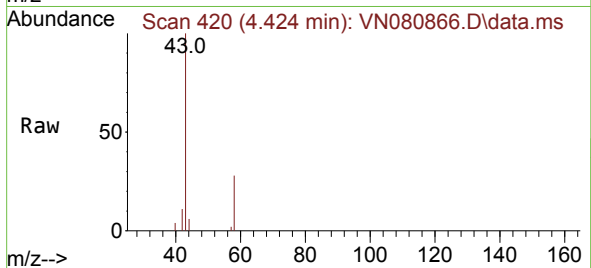




#16
Acetone
Concen: 38.389 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

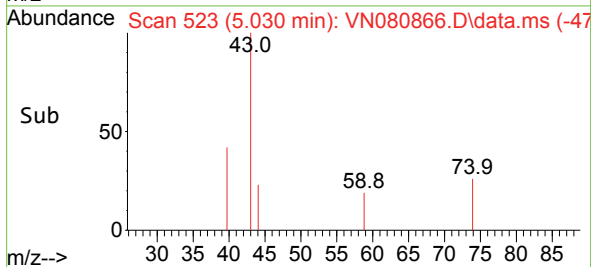
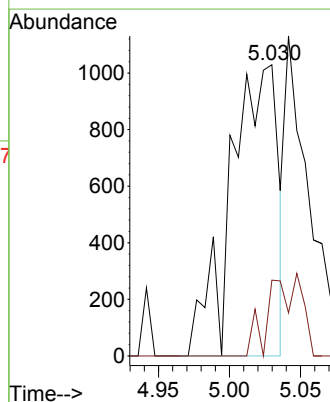
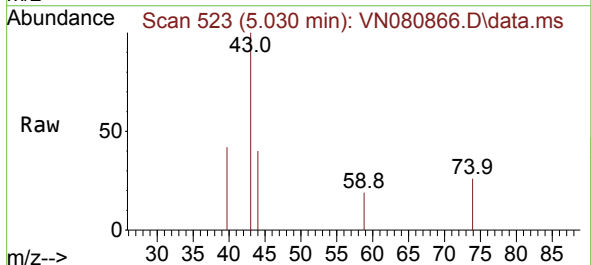
Instrument :
MSVOA_N
ClientSampleId :
TP-1

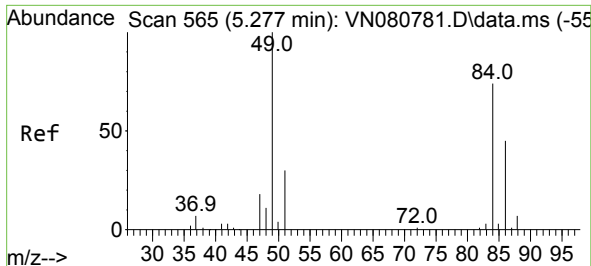
Tgt Ion: 43 Resp: 20206
Ion Ratio Lower Upper
43 100
58 27.7 24.8 37.2



#18
Methyl Acetate
Concen: 1.290 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Tgt Ion: 43 Resp: 2366
Ion Ratio Lower Upper
43 100
74 19.7 17.3 25.9

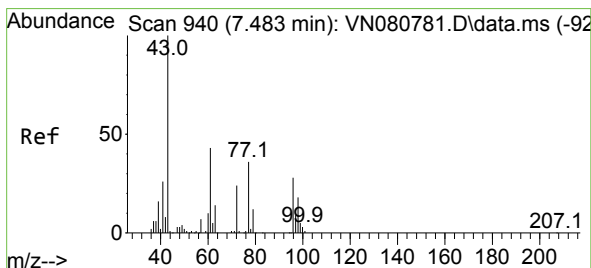
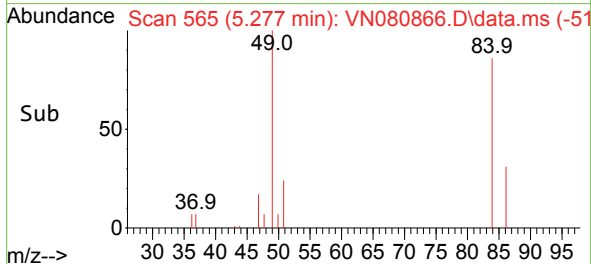
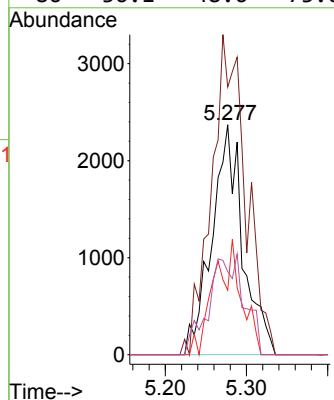
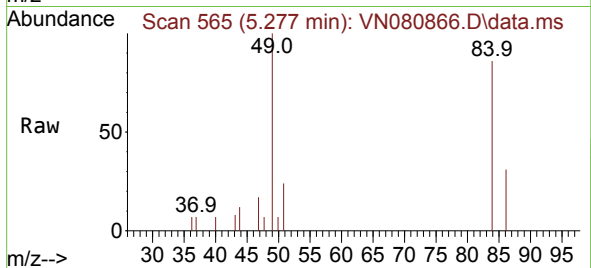




#20
Methylene Chloride
Concen: 4.542 ug/l
RT: 5.277 min Scan# 50
Delta R.T. 0.000 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

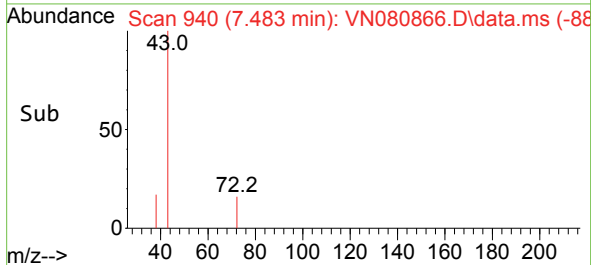
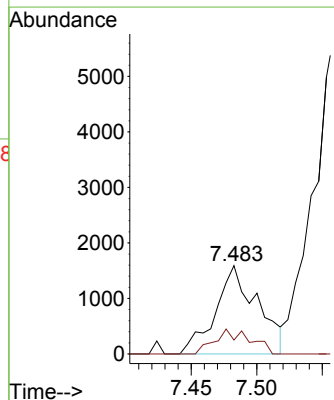
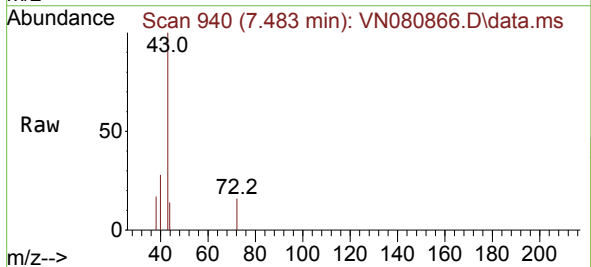
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ClientSampleId :
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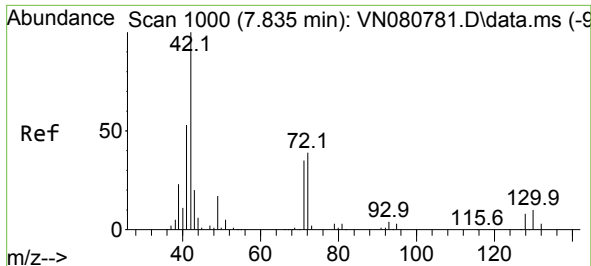
Tgt Ion: 84 Resp: 6276
Ion Ratio Lower Upper
84 100
49 116.4 108.1 162.1
51 28.0 32.9 49.3#
86 36.1 48.6 73.0#



#25
2-Butanone
Concen: 3.543 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Tgt Ion: 43 Resp: 3542
Ion Ratio Lower Upper
43 100
72 15.8 19.5 29.3#





#29

Tetrahydrofuran

Concen: 0.829 ug/l

RT: 7.835 min Scan# 10

Delta R.T. 0.000 min

Lab File: VN080866.D

Acq: 01 Feb 2024 13:38

Instrument :

MSVOA_N

ClientSampleId :

TP-1

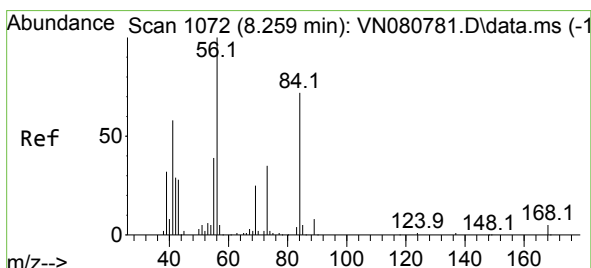
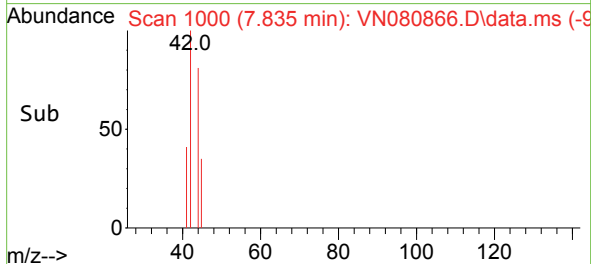
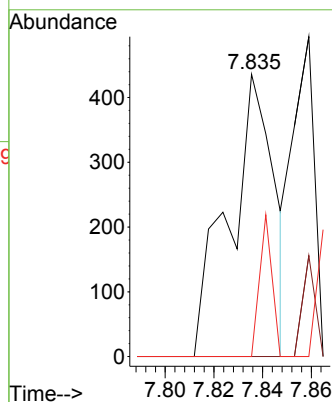
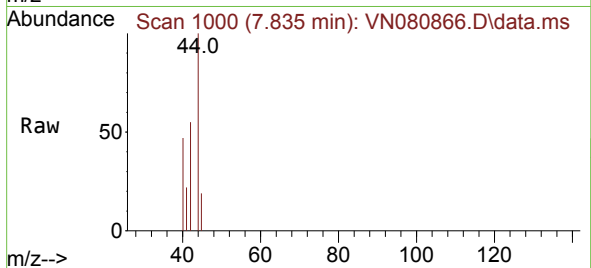
Tgt Ion: 42 Resp: 561

Ion Ratio Lower Upper

42 100

72 0.0 31.1 46.7#

71 13.7 28.3 42.5#



#31

Cyclohexane

Concen: 1.446 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.035 min

Lab File: VN080866.D

Acq: 01 Feb 2024 13:38

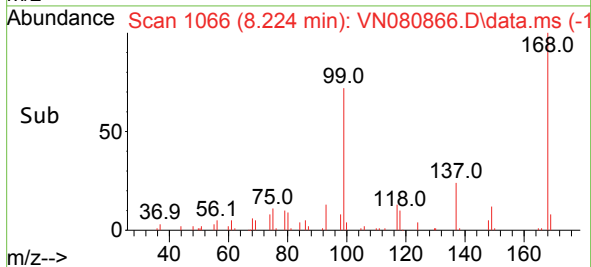
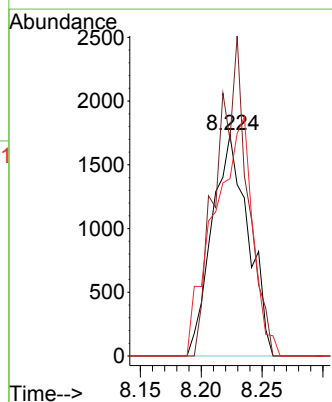
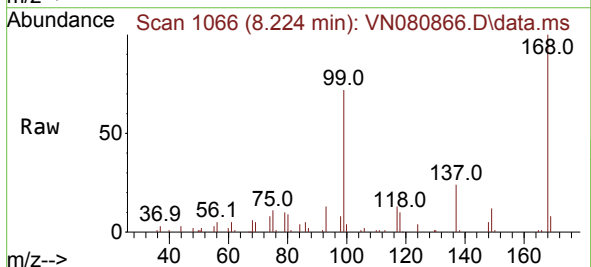
Tgt Ion: 56 Resp: 3598

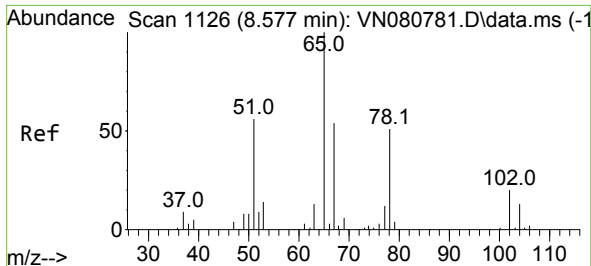
Ion Ratio Lower Upper

56 100

69 97.8 20.1 30.1#

84 80.1 56.9 85.3





#33

1,2-Dichloroethane-d4

Concen: 56.209 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN080866.D

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ClientSampleId :

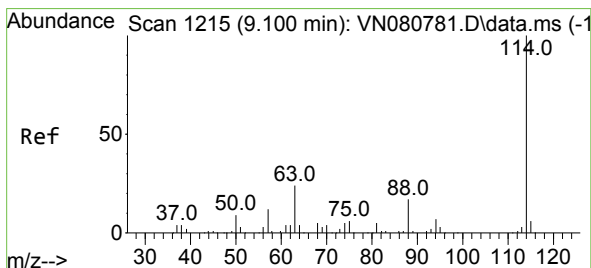
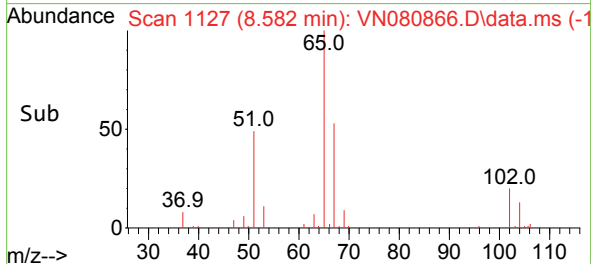
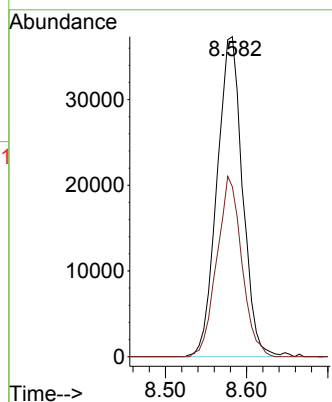
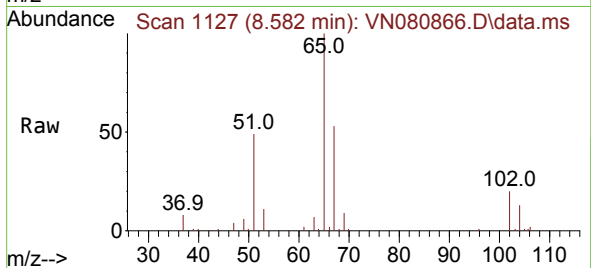
TP-1

Tgt Ion: 65 Resp: 81576

Ion Ratio Lower Upper

65 100

67 55.1 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN080866.D

Acq: 01 Feb 2024 13:38

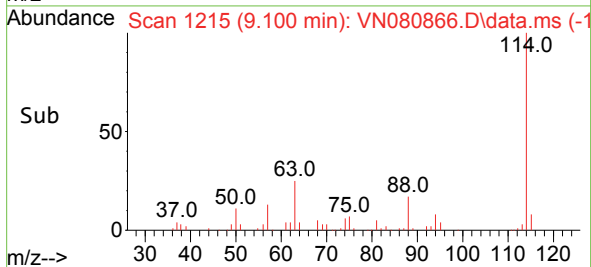
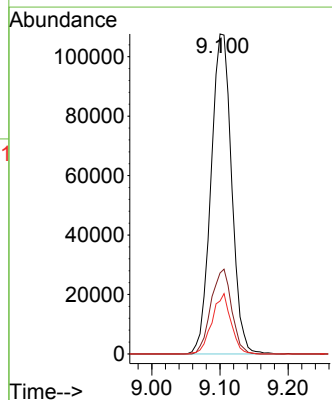
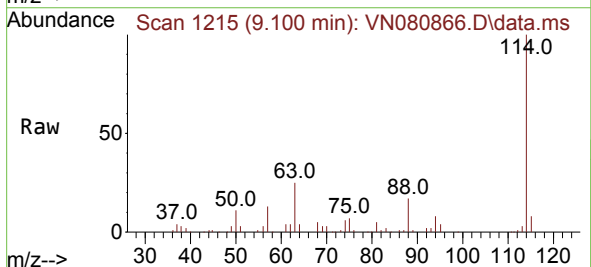
Tgt Ion: 114 Resp: 226517

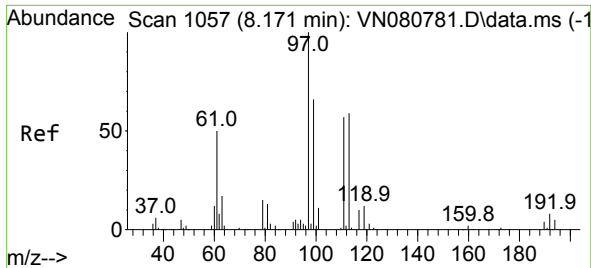
Ion Ratio Lower Upper

114 100

63 25.3 0.0 48.0

88 16.6 0.0 34.8

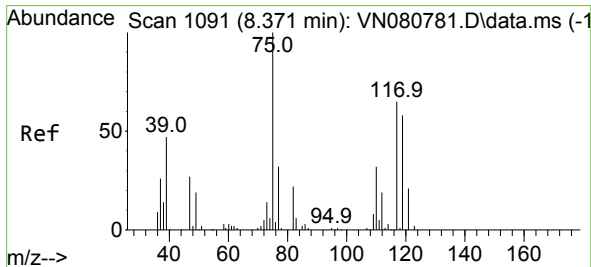
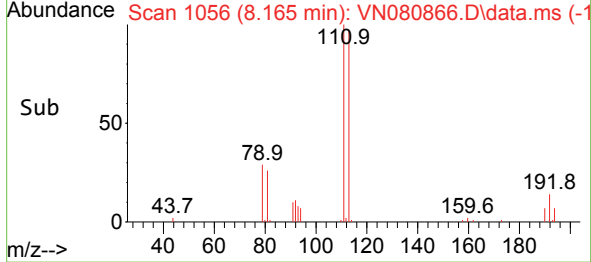
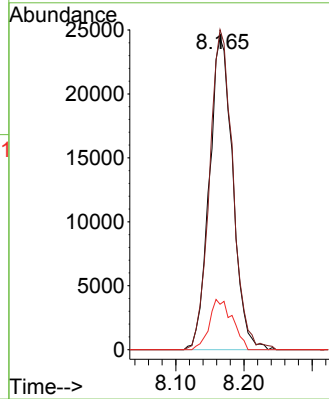
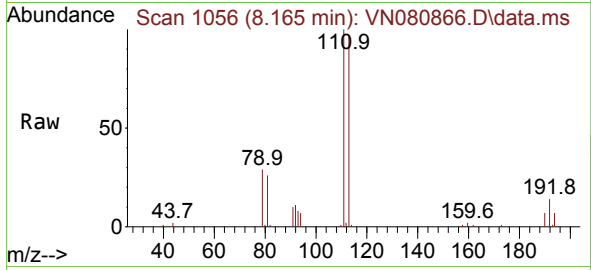




#35
Dibromofluoromethane
Concen: 42.112 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

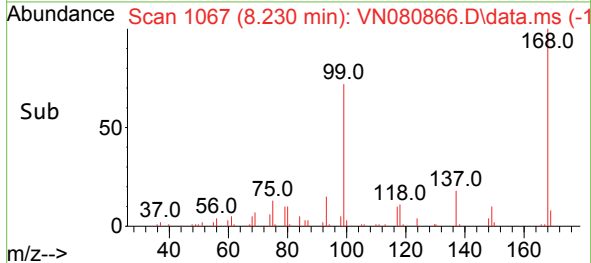
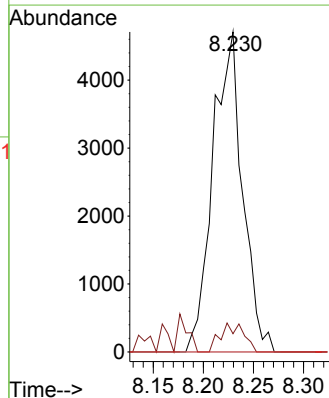
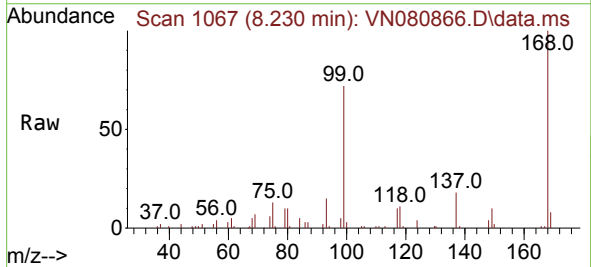
Instrument :
MSVOA_N
ClientSampleId :
TP-1

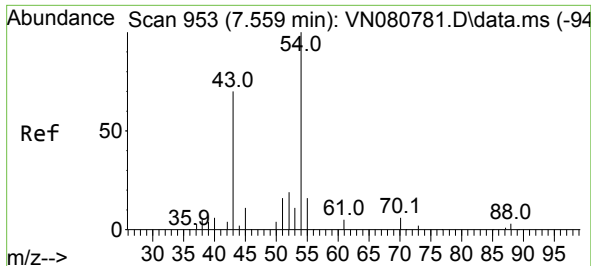
Tgt Ion:113 Resp: 58361
Ion Ratio Lower Upper
113 100
111 102.1 82.2 123.4
192 15.9 12.5 18.7



#36
1,1-Dichloropropene
Concen: 3.767 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Tgt Ion: 75 Resp: 9702
Ion Ratio Lower Upper
75 100
110 7.0 16.0 48.0#
77 0.0 25.8 38.6#

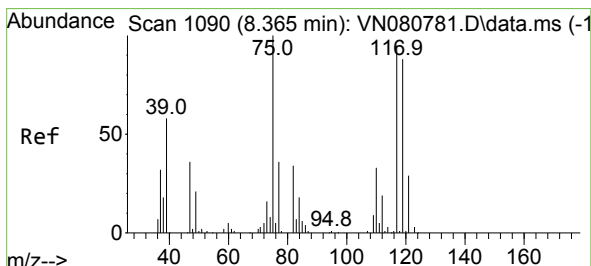
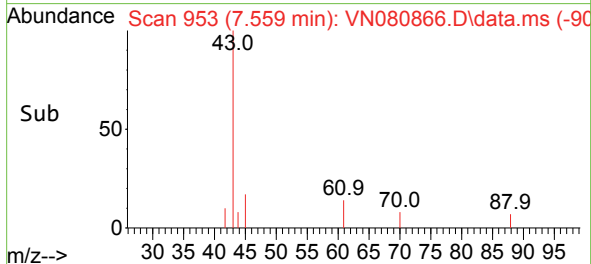
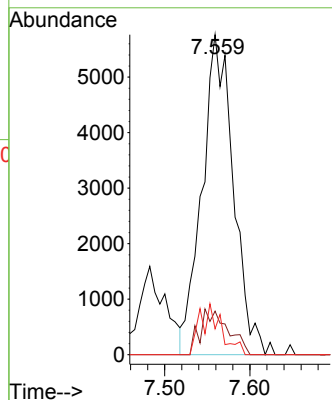
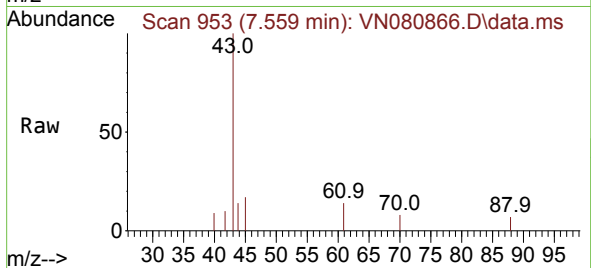




#37
Ethyl Acetate
Concen: 5.554 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

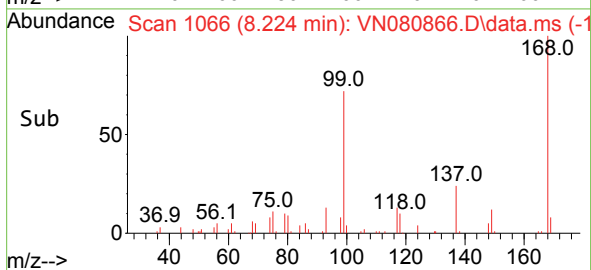
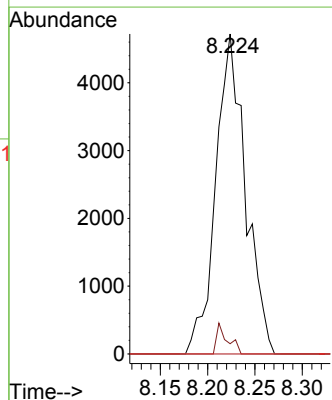
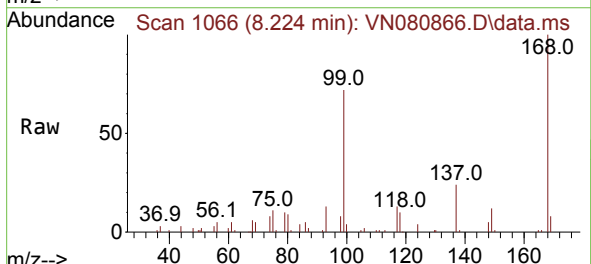
Instrument :
MSVOA_N
ClientSampleId :
TP-1

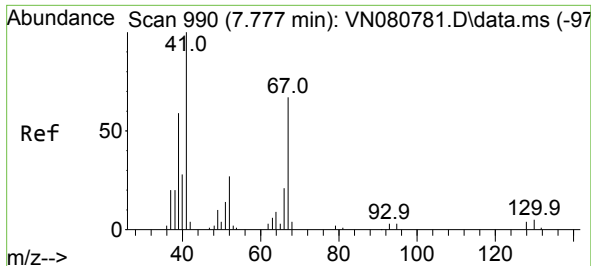
Tgt Ion: 43 Resp: 14727
Ion Ratio Lower Upper
43 100
61 12.6 10.6 15.8
70 3.8 8.0 12.0#



#38
Carbon Tetrachloride
Concen: 4.975 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Tgt Ion: 117 Resp: 10326
Ion Ratio Lower Upper
117 100
119 3.2 73.4 110.2#
121 0.0 24.4 36.6#

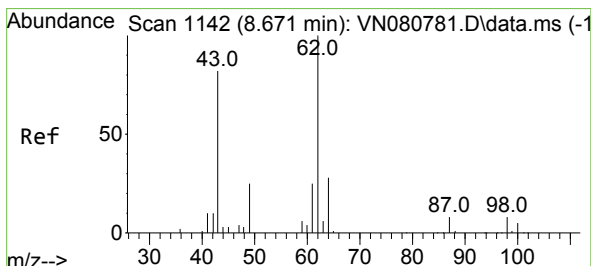
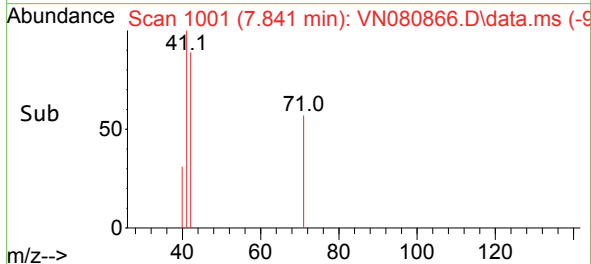
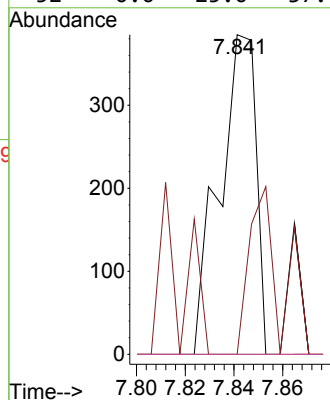
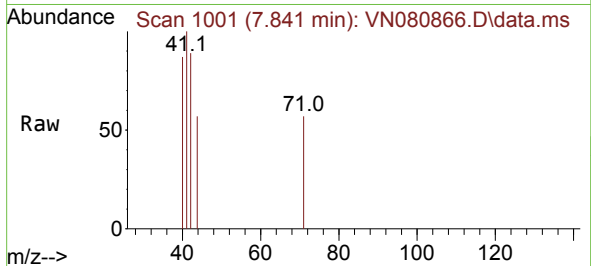




#41
Methacrylonitrile
Concen: 0.258 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.065 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

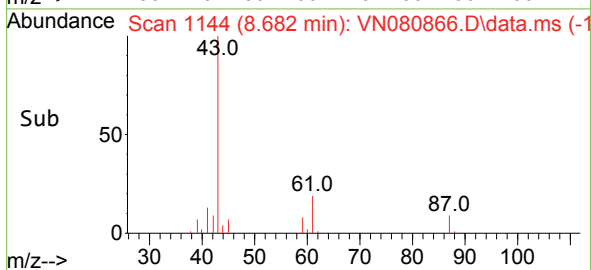
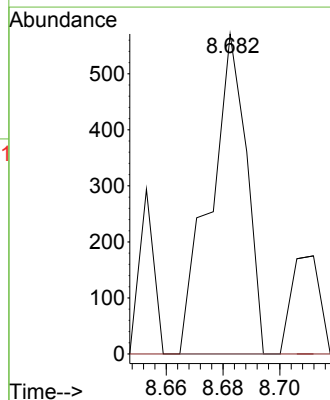
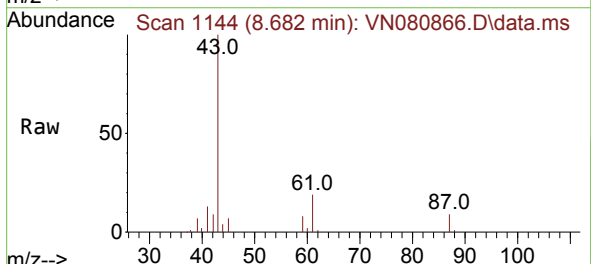
Instrument :
MSVOA_N
ClientSampleId :
TP-1

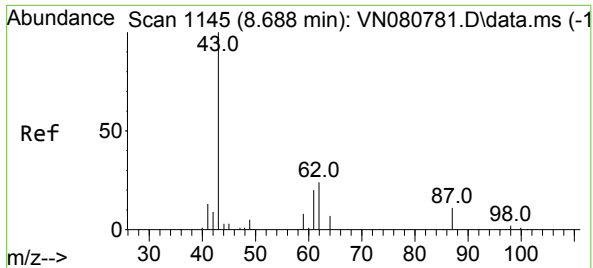
Tgt Ion: 41 Resp: 403
Ion Ratio Lower Upper
41 100
39 44.9 48.4 72.6#
67 0.0 56.8 85.2#
52 0.0 25.0 37.4#



#42
1,2-Dichloroethane
Concen: 0.204 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.012 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Tgt Ion: 62 Resp: 504
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.0

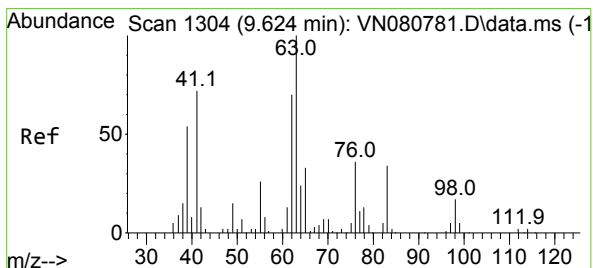
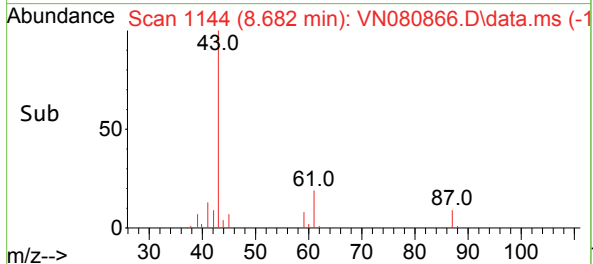
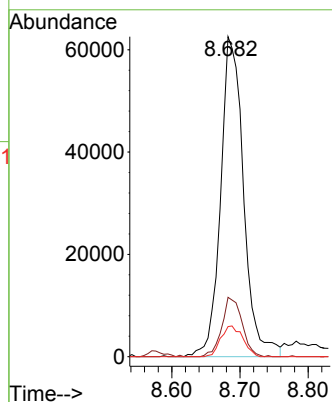
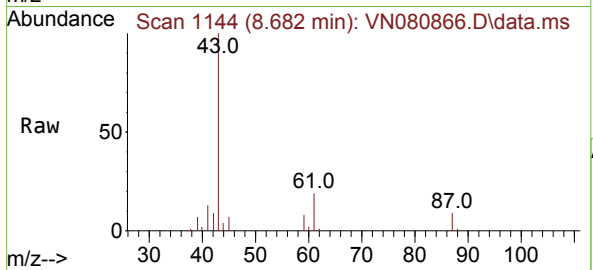




#43
Isopropyl Acetate
Concen: 30.424 ug/l
RT: 8.682 min Scan# 1145
Delta R.T. -0.006 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

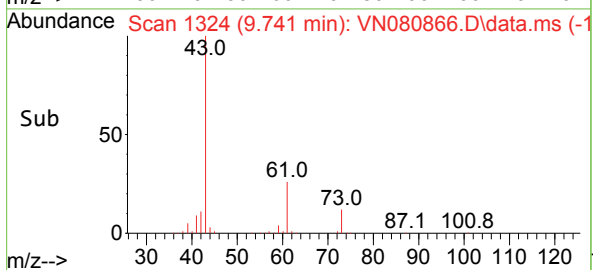
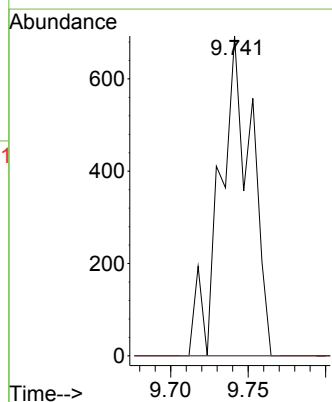
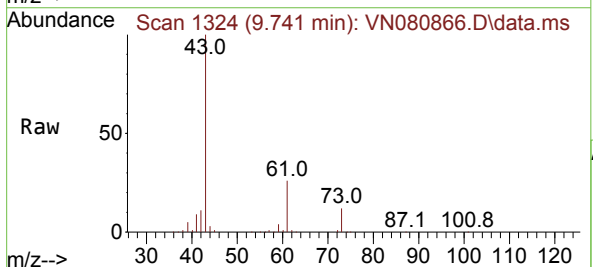
Instrument :
MSVOA_N
ClientSampleId :
TP-1

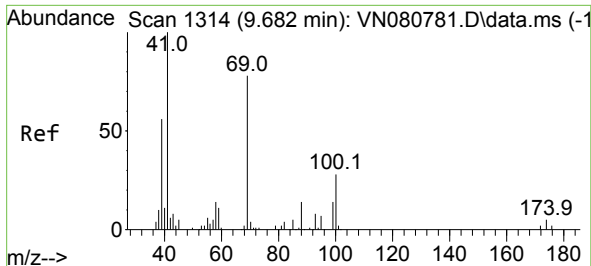
Tgt Ion: 43 Resp: 146875
Ion Ratio Lower Upper
43 100
61 16.4 19.9 29.9#
87 9.2 9.0 13.6



#45
1,2-Dichloropropane
Concen: 0.479 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Tgt Ion: 63 Resp: 981
Ion Ratio Lower Upper
63 100
65 0.0 26.1 39.1#

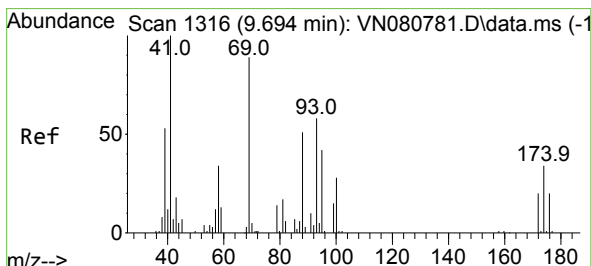
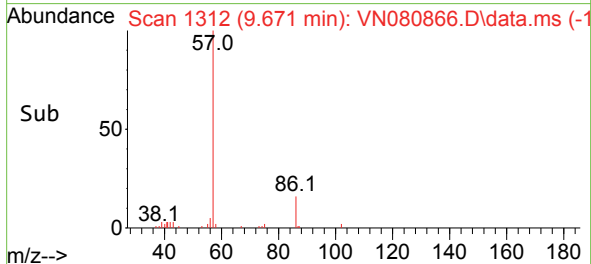
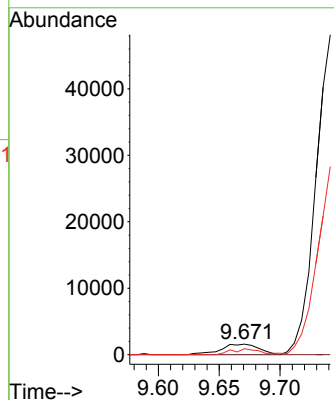
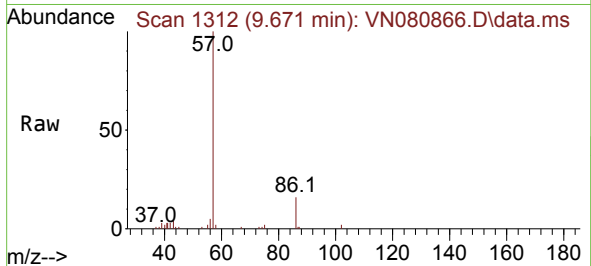




#48
Methyl methacrylate
Concen: 1.477 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.012 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

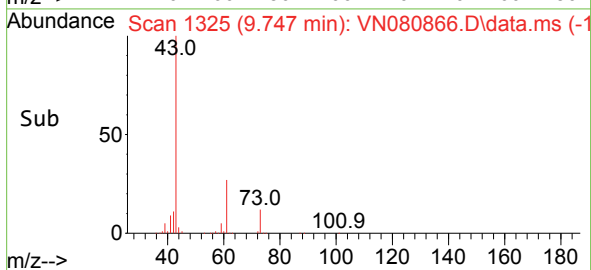
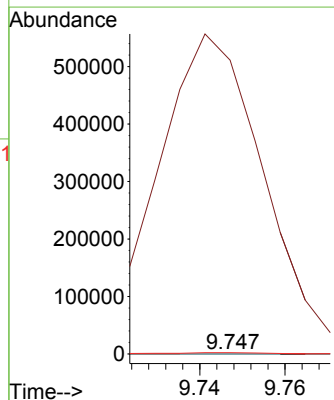
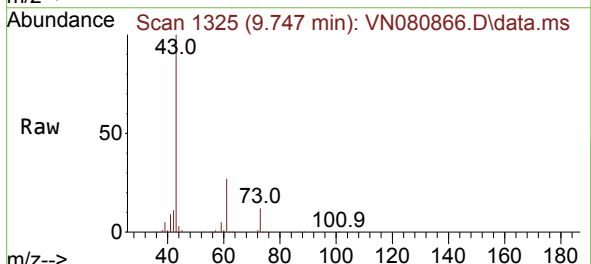
Instrument :
MSVOA_N
ClientSampleId :
TP-1

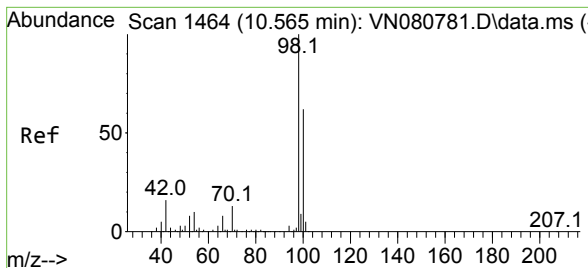
Tgt Ion: 41 Resp: 3456
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 0.0 47.6 71.4#



#49
1,4-Dioxane
Concen: 1.915 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.053 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Tgt Ion: 88 Resp: 54
Ion Ratio Lower Upper
88 100
43 1834487.0 30.1 45.1#
58 7966.7 63.9 95.9#

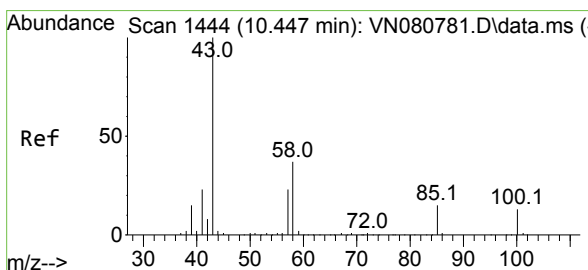
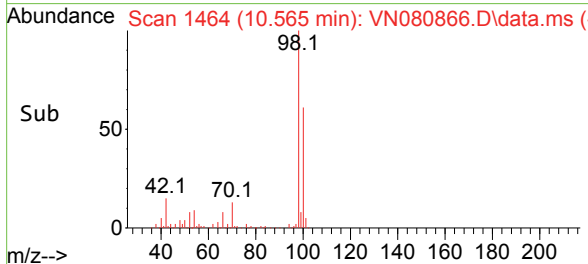
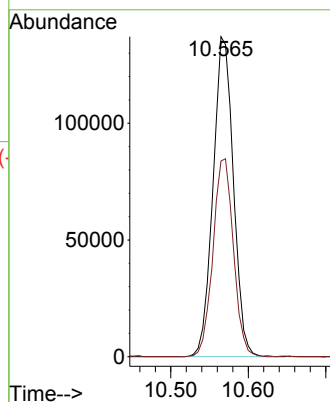
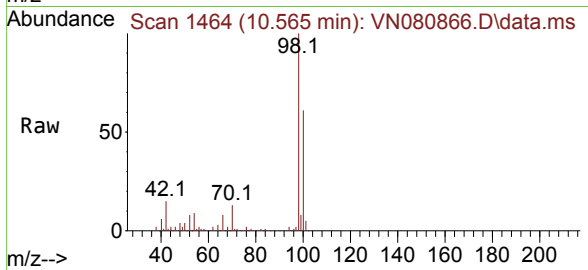




#50
Toluene-d8
Concen: 46.073 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

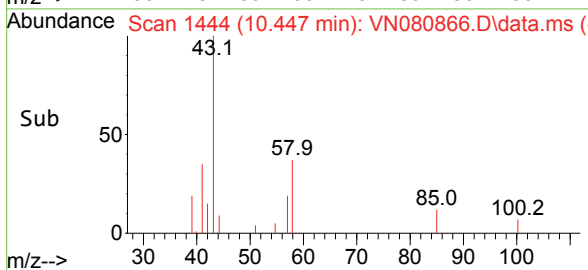
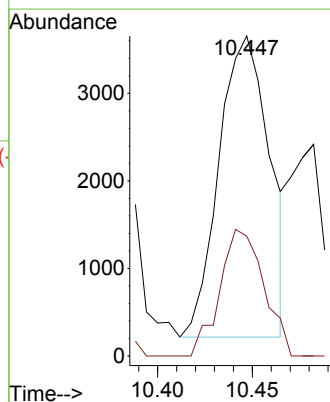
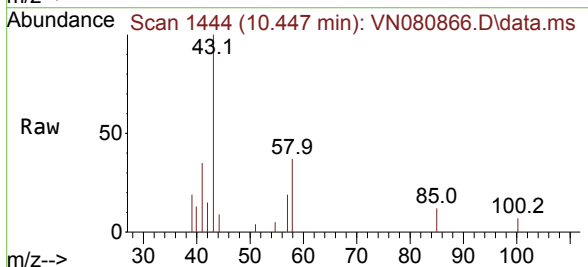
Instrument :
MSVOA_N
ClientSampleId :
TP-1

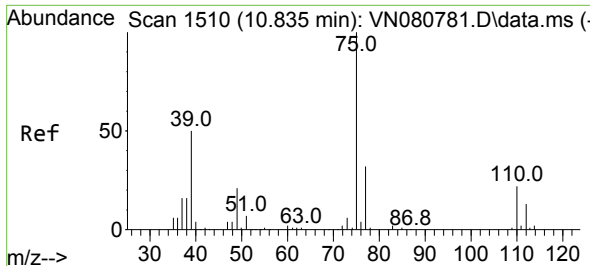
Tgt Ion: 98 Resp: 249901
Ion Ratio Lower Upper
98 100
100 62.2 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 2.368 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Tgt Ion: 43 Resp: 6391
Ion Ratio Lower Upper
43 100
58 36.5 29.4 44.0

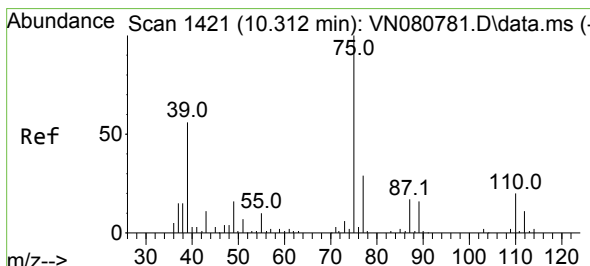
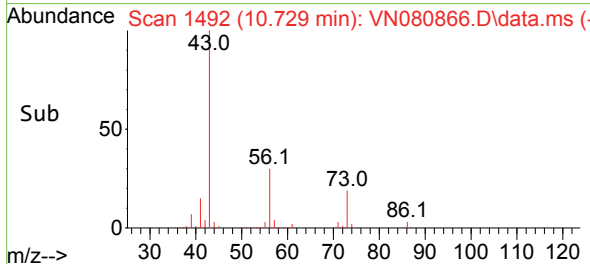
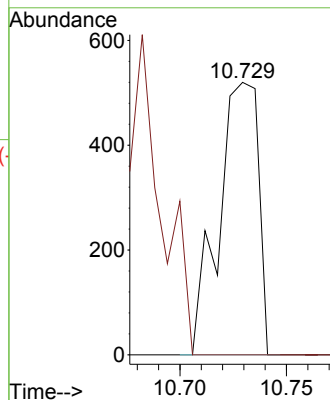
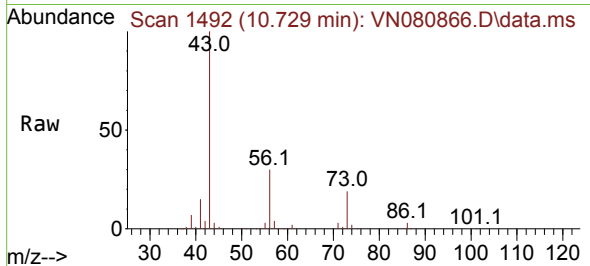




#53
 t-1,3-Dichloropropene
 Concen: 0.235 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.106 min
 Lab File: VN080866.D
 Acq: 01 Feb 2024 13:38

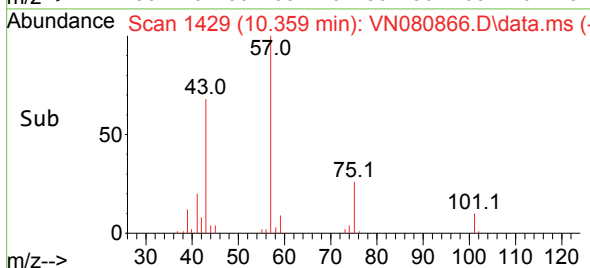
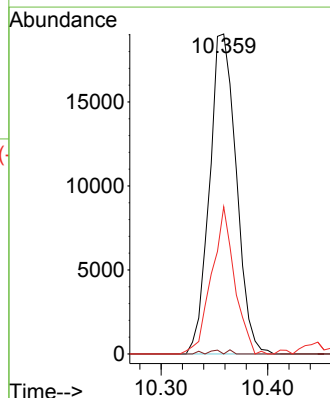
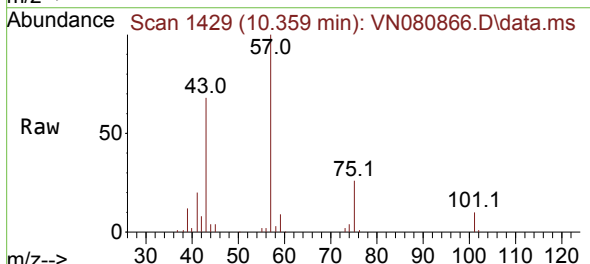
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

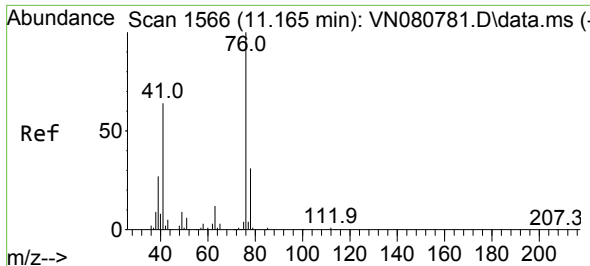
Tgt Ion: 75 Resp: 674
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#



#54
 cis-1,3-Dichloropropene
 Concen: 10.645 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN080866.D
 Acq: 01 Feb 2024 13:38

Tgt Ion: 75 Resp: 33252
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.3 34.9#
 39 46.0 44.6 66.8





#57

1,3-Dichloropropane

Concen: 1.467 ug/l

RT: 11.206 min Scan# 1

Delta R.T. 0.041 min

Lab File: VN080866.D

Acq: 01 Feb 2024 13:38

Instrument :

MSVOA_N

ClientSampleId :

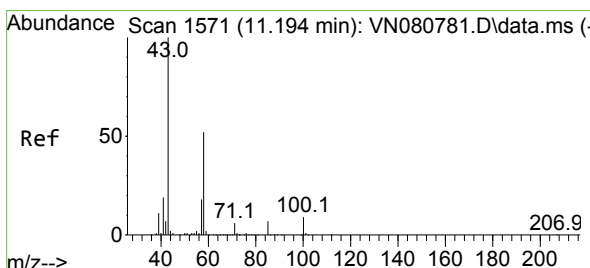
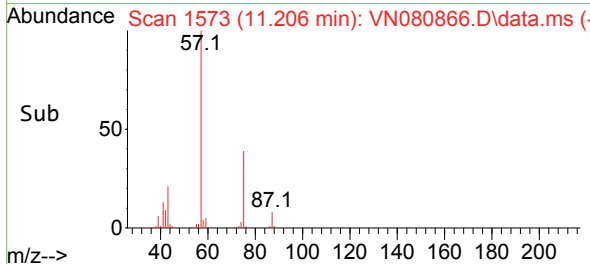
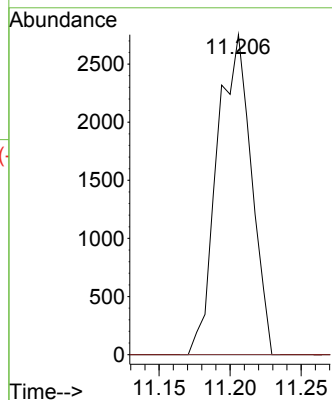
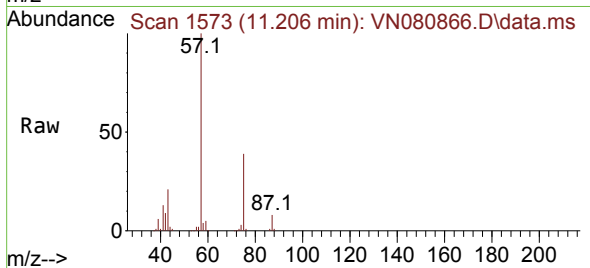
TP-1

Tgt Ion: 76 Resp: 4606

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 45.696 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN080866.D

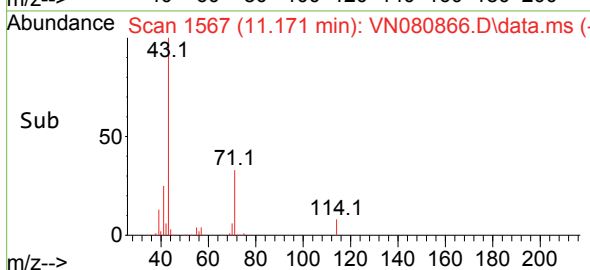
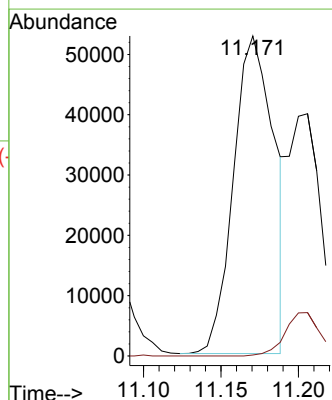
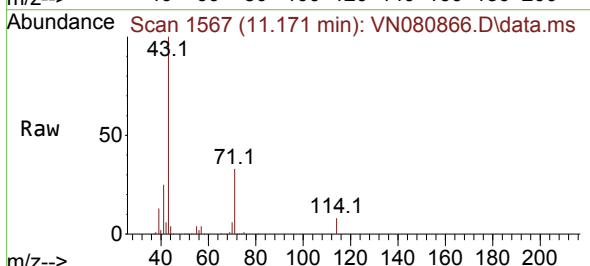
Acq: 01 Feb 2024 13:38

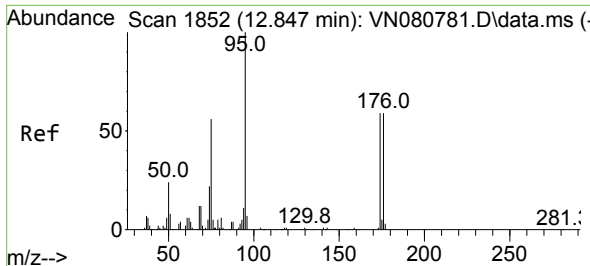
Tgt Ion: 43 Resp: 95793

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.8#

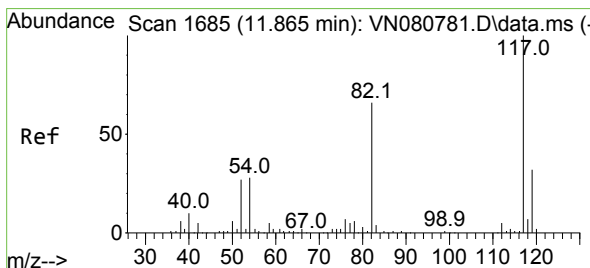
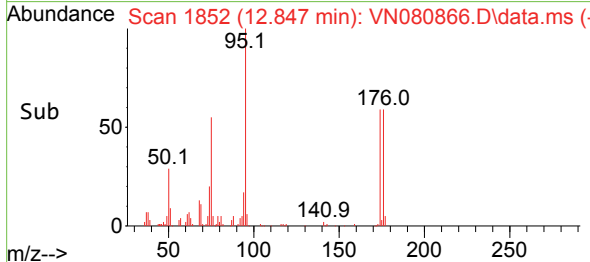
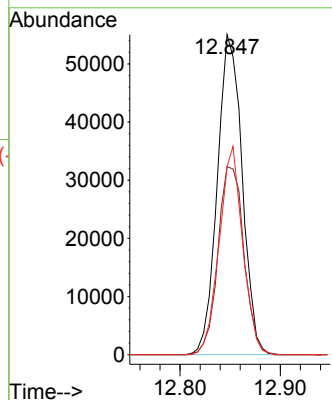
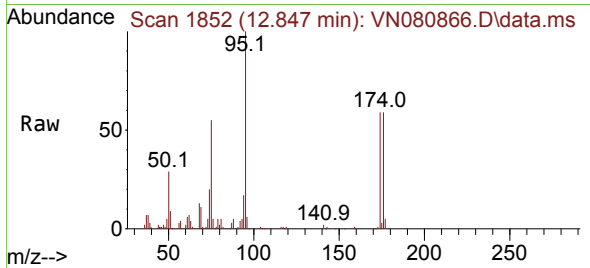




#62
4-Bromofluorobenzene
Concen: 49.832 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

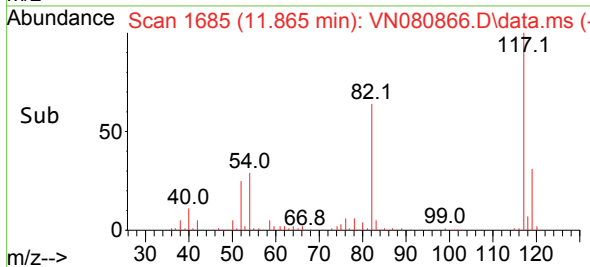
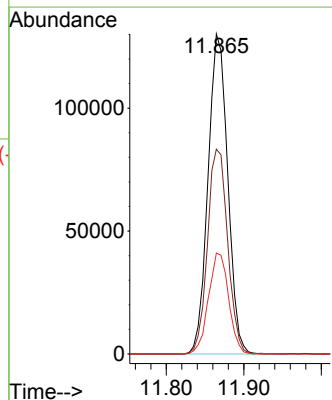
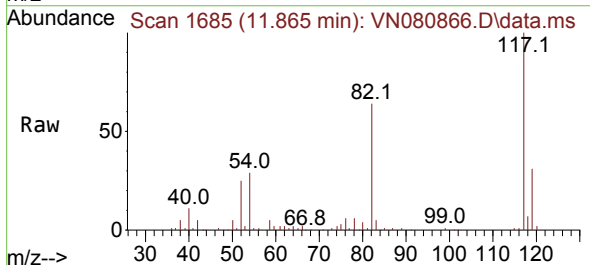
Instrument :
MSVOA_N
ClientSampleId :
TP-1

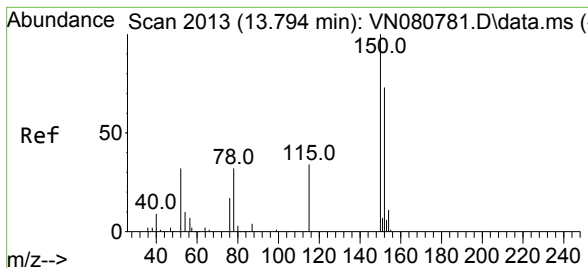
Tgt Ion: 95 Resp: 94189
Ion Ratio Lower Upper
95 100
174 61.8 0.0 120.4
176 61.7 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Tgt Ion: 117 Resp: 229791
Ion Ratio Lower Upper
117 100
82 64.0 52.7 79.1
119 31.5 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN080866.D

Acq: 01 Feb 2024 13:38

Instrument :

MSVOA_N

ClientSampleId :

TP-1

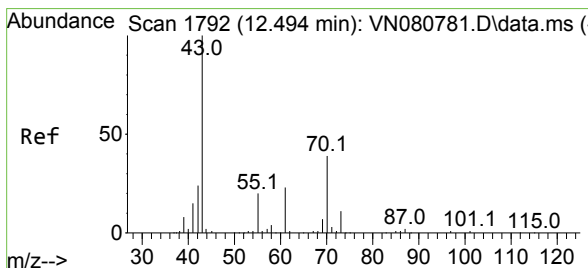
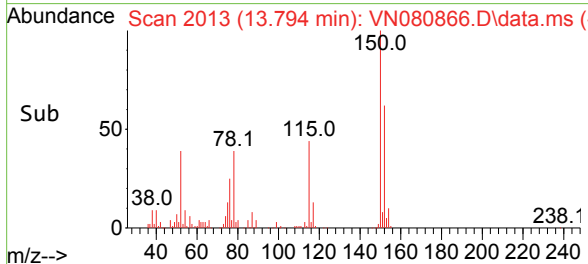
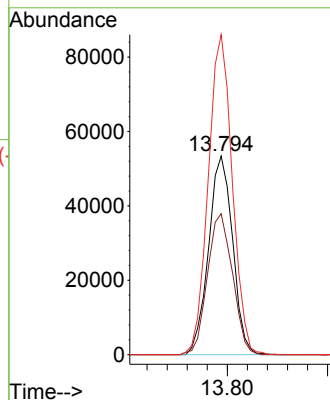
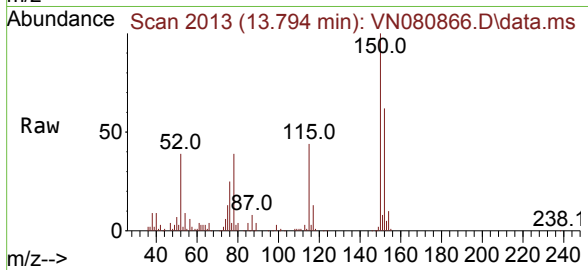
Tgt Ion:152 Resp: 89131

Ion Ratio Lower Upper

152 100

115 73.8 32.3 96.8

150 160.7 0.0 339.8



#74

N-ethyl acetate

Concen: 4.154 ug/l

RT: 12.306 min Scan# 1760

Delta R.T. -0.188 min

Lab File: VN080866.D

Acq: 01 Feb 2024 13:38

Tgt Ion: 43 Resp: 21049

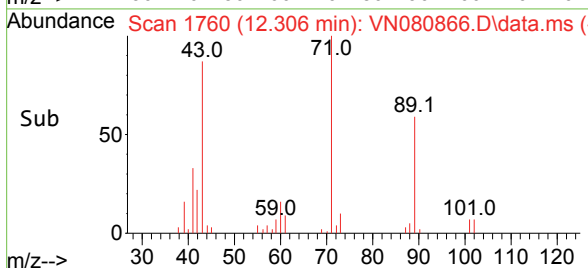
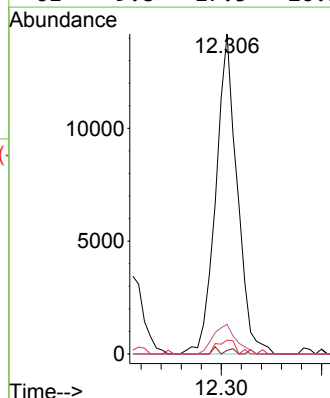
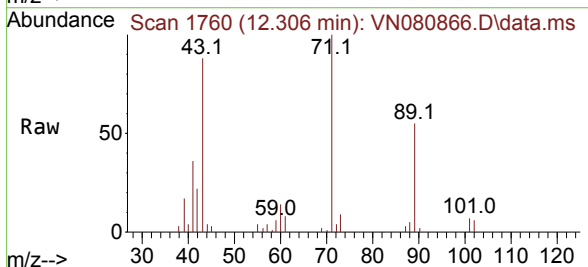
Ion Ratio Lower Upper

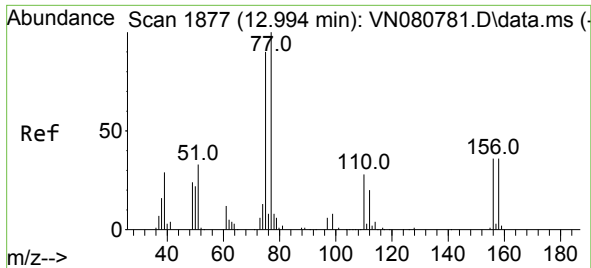
43 100

70 0.5 30.1 45.1#

55 3.8 17.0 25.4#

61 9.8 17.5 26.3#

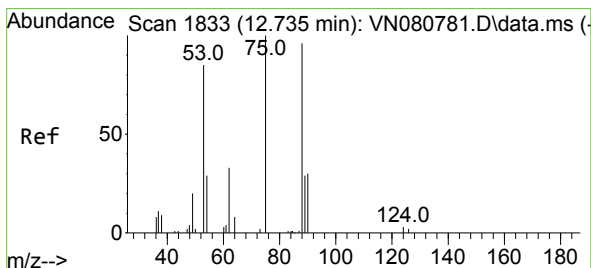
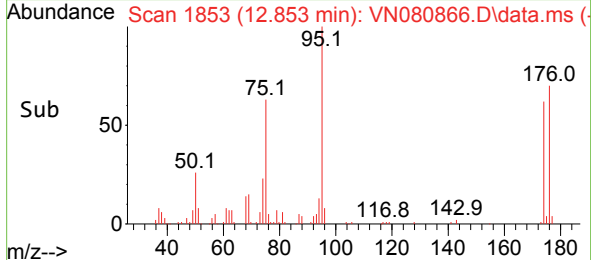
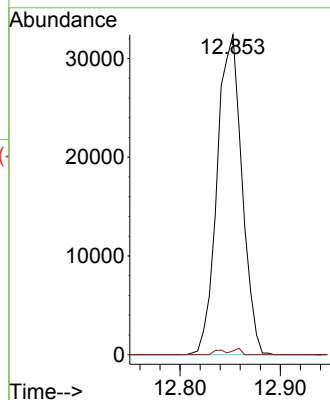
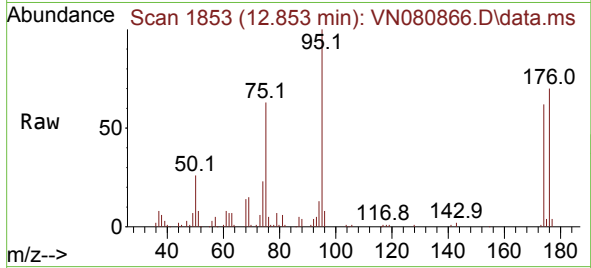




#76
1,2,3-Trichloropropane
Concen: 20.659 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Instrument :
MSVOA_N
ClientSampleId :
TP-1

Tgt Ion: 75 Resp: 55535
Ion Ratio Lower Upper
75 100
77 0.7 91.0 272.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 53.221 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN080866.D
Acq: 01 Feb 2024 13:38

Tgt Ion: 75 Resp: 55535
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.2#
89 0.0 33.4 50.0#

