

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020124\
 Data File : VN080867.D
 Acq On : 01 Feb 2024 14:01
 Operator : JC\MD
 Sample : P1311-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Feb 02 03:38:44 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)

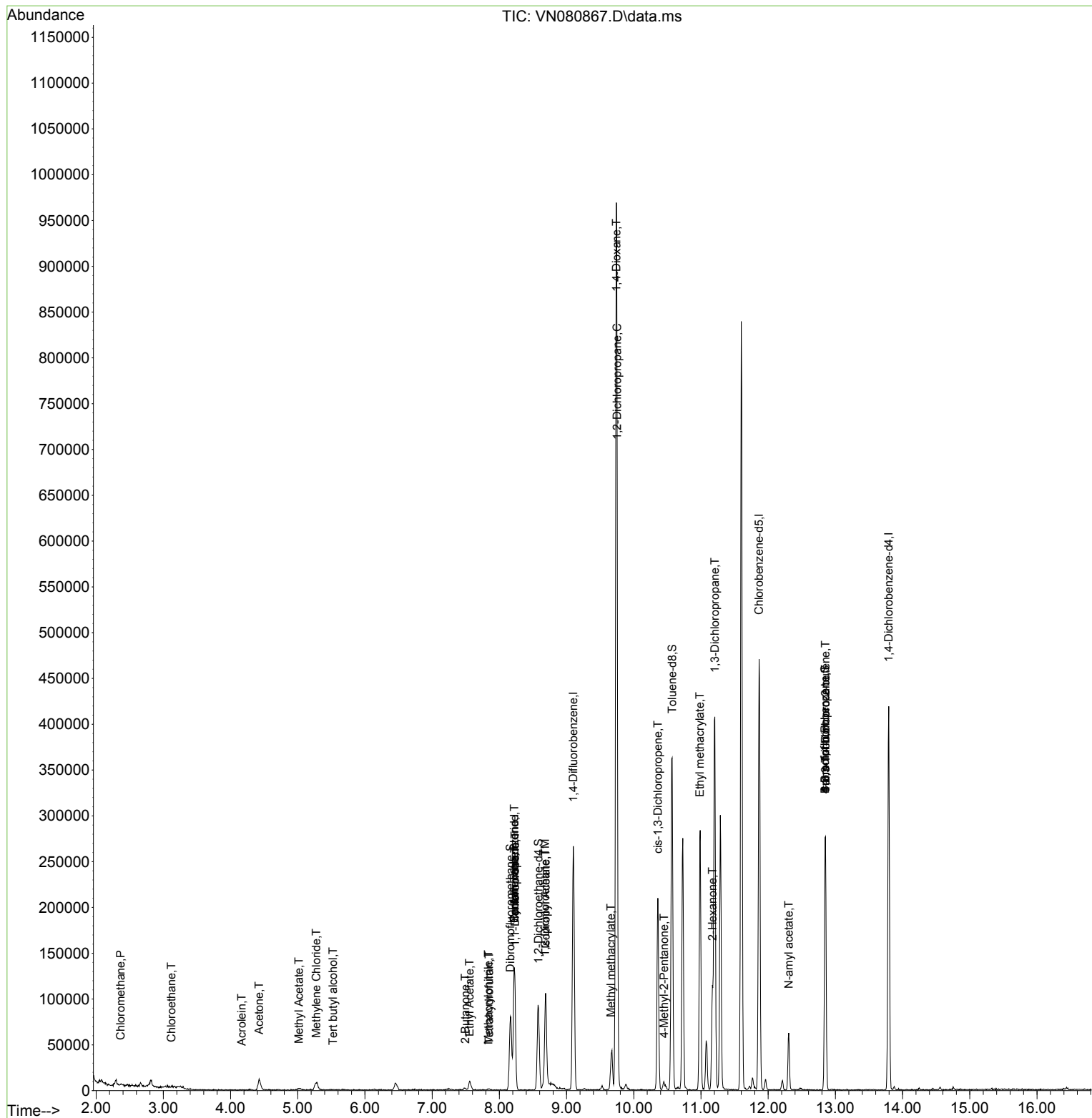
Internal Standards						
1) Pentafluorobenzene	8.224	168	84374	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	209225	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	234496	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	93151	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	71030	48.662	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.320%		
35) Dibromofluoromethane	8.165	113	54885	42.877	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	85.760%		
50) Toluene-d8	10.571	98	239261	47.757	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.520%		
62) 4-Bromofluorobenzene	12.847	95	94628	54.201	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	108.400%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1751	0.929	ug/l	97
6) Chloroethane	3.118	64	399	0.523	ug/l #	42
11) Tert butyl alcohol	5.524	59	278	1.168	ug/l #	72
13) Acrolein	4.165	56	119	0.397	ug/l #	15
16) Acetone	4.424	43	19732	37.274	ug/l	89
18) Methyl Acetate	5.018	43	1496	0.811	ug/l	100
20) Methylene Chloride	5.277	84	4015	2.889	ug/l #	74
25) 2-Butanone	7.494	43	4184	4.161	ug/l #	90
29) Tetrahydrofuran	7.847	42	1192	1.752	ug/l #	55
31) Cyclohexane	8.224	56	3384	1.352	ug/l #	5
36) 1,1-Dichloropropene	8.235	75	10862	4.565	ug/l #	46
37) Ethyl Acetate	7.559	43	14193	5.795	ug/l	96
38) Carbon Tetrachloride	8.224	117	10805	5.637	ug/l #	20
41) Methacrylonitrile	7.835	41	449	0.311	ug/l #	22
42) 1,2-Dichloroethane	8.682	62	618	0.271	ug/l #	75
43) Isopropyl Acetate	8.688	43	130753	29.323	ug/l #	87
45) 1,2-Dichloropropane	9.753	63	1250	0.661	ug/l #	42
48) Methyl methacrylate	9.659	41	3620	1.675	ug/l #	46
49) 1,4-Dioxane	9.741	88	69	2.650	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	11122	4.462	ug/l #	73
54) cis-1,3-Dichloropropene	10.359	75	34808	12.064	ug/l #	68
56) Ethyl methacrylate	10.982	69	853	0.360	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	4067	1.402	ug/l #	43
59) 2-Hexanone	11.171	43	97033	50.113	ug/l #	26
71) Bromoform	12.847	173	339	0.301	ug/l #	30
74) N-amyl acetate	12.306	43	20974	3.960	ug/l #	55
76) 1,2,3-Trichloropropane	12.853	75	57437	20.444	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	57437	52.668	ug/l #	14

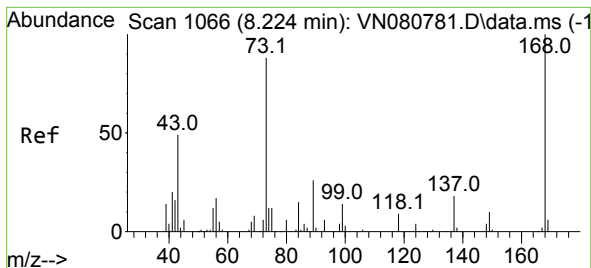
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1

Delta R.T. -0.000 min

Lab File: VN080867.D

Acq: 01 Feb 2024 14:01

Instrument :

MSVOA_N

ClientSampleId :

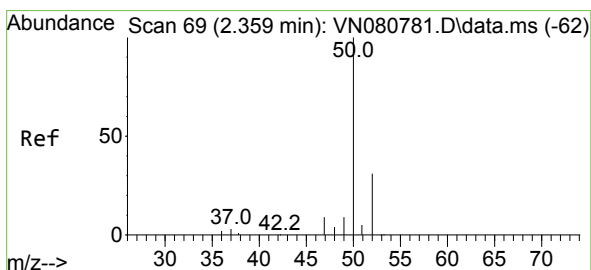
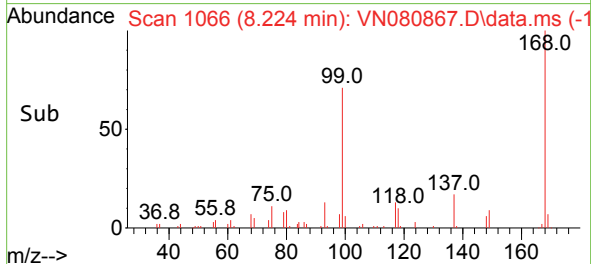
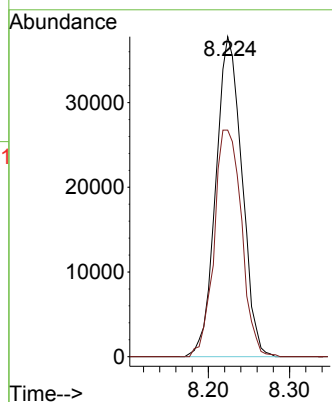
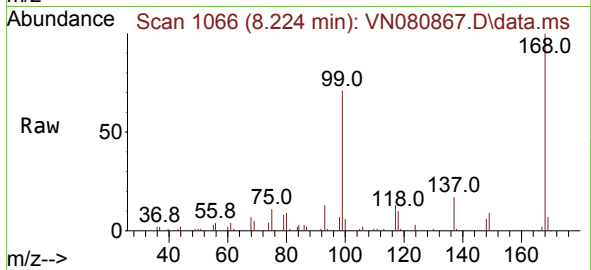
TP-2

Tgt Ion:168 Resp: 84374

Ion Ratio Lower Upper

168 100

99 70.8 59.9 89.9



#3

Chloromethane

Concen: 0.929 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080867.D

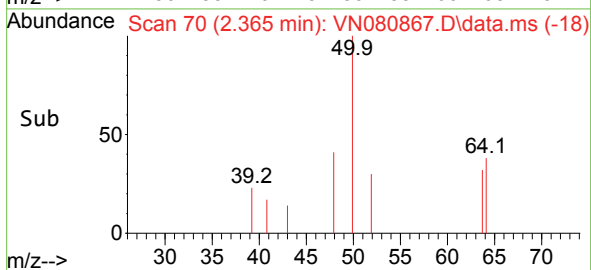
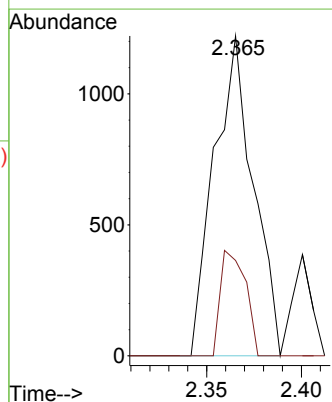
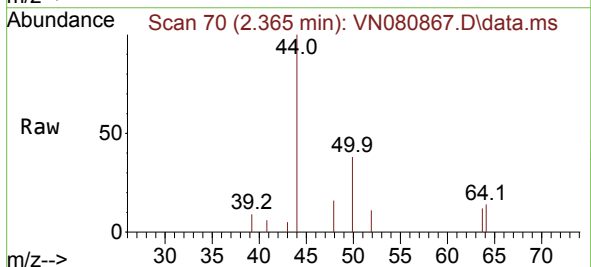
Acq: 01 Feb 2024 14:01

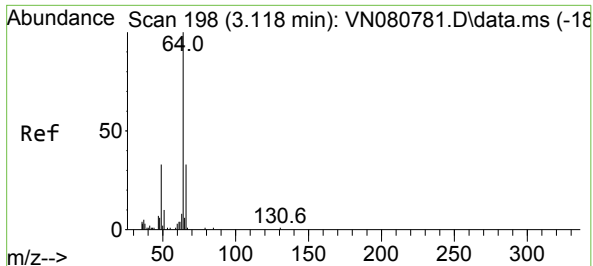
Tgt Ion: 50 Resp: 1751

Ion Ratio Lower Upper

50 100

52 29.8 25.0 37.4

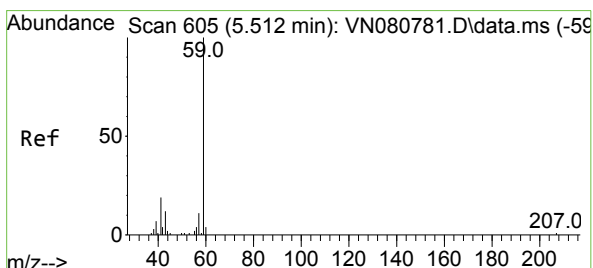
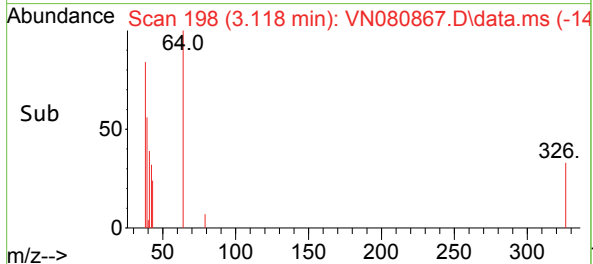
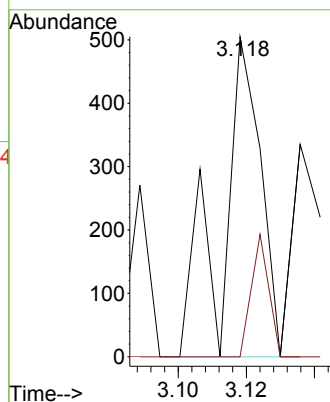
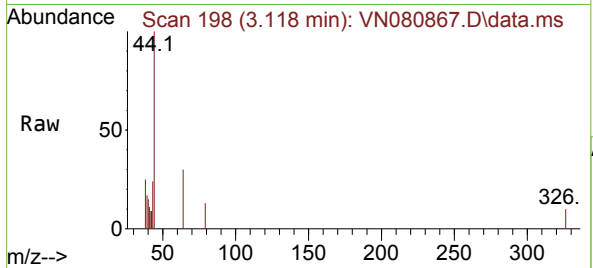




#6
Chloroethane
Concen: 0.523 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

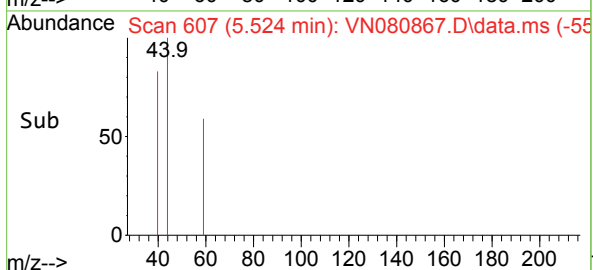
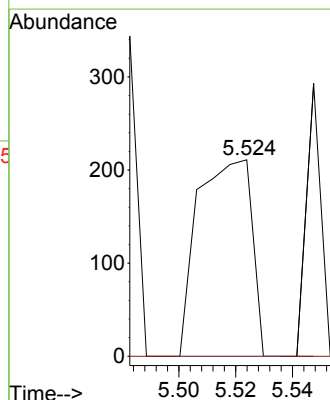
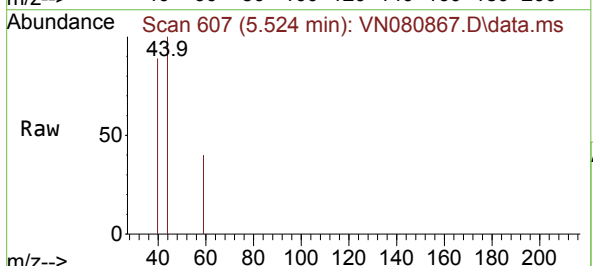
Instrument :
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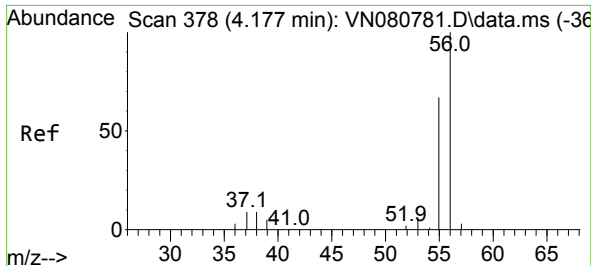
Tgt Ion: 64 Resp: 399
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#



#11
Tert butyl alcohol
Concen: 1.168 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion: 59 Resp: 278
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

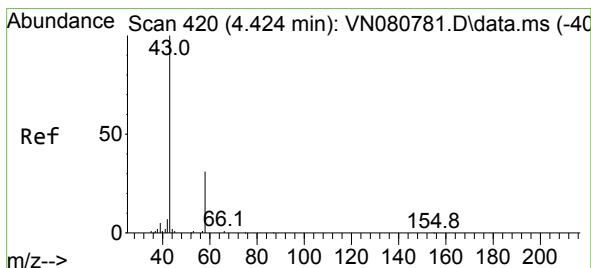
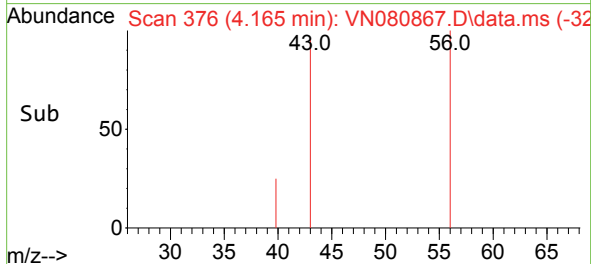
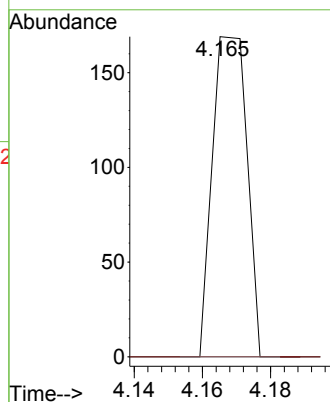
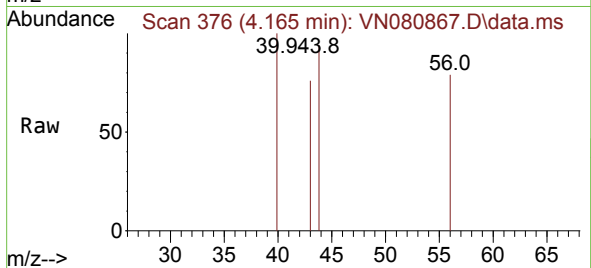




#13
Acrolein
Concen: 0.397 ug/l
RT: 4.165 min Scan# 311
Delta R.T. -0.012 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

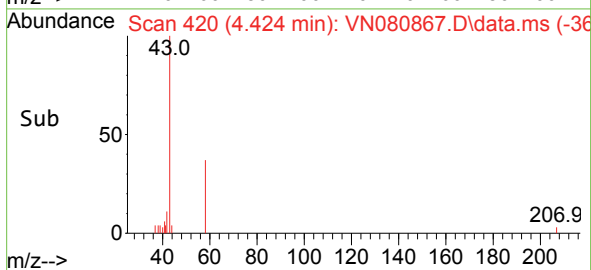
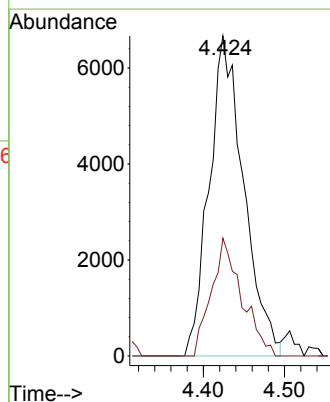
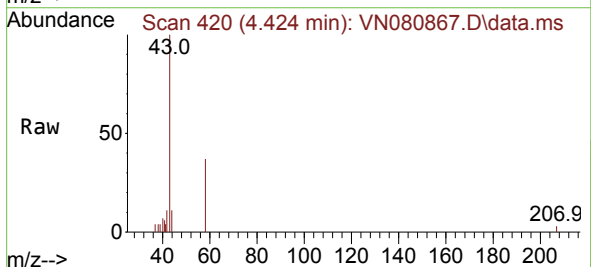
Instrument :
MSVOA_N
ClientSampleId :
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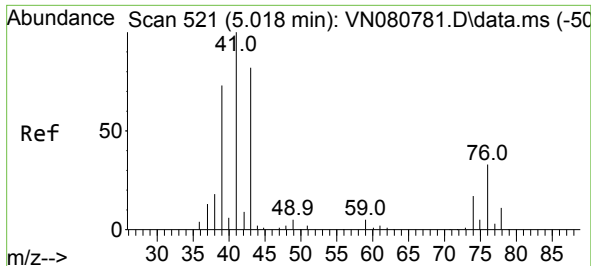
Tgt Ion: 56 Resp: 119
Ion Ratio Lower Upper
56 100
55 0.0 55.3 82.9#



#16
Acetone
Concen: 37.274 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion: 43 Resp: 19732
Ion Ratio Lower Upper
43 100
58 36.8 24.8 37.2

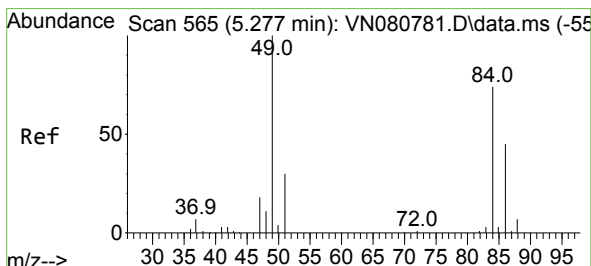
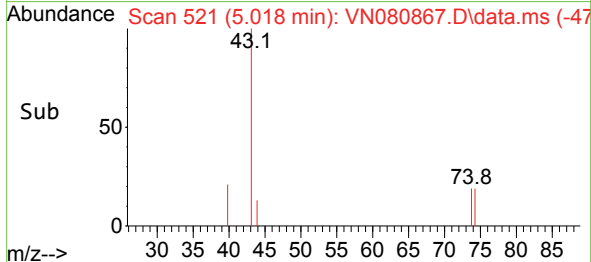
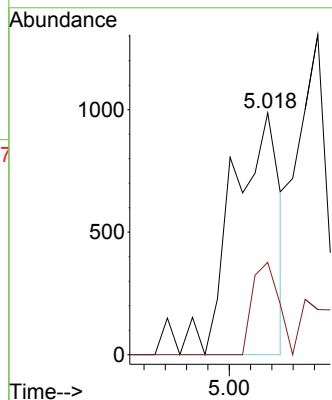
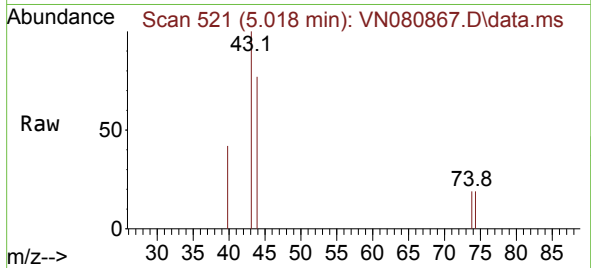




#18
Methyl Acetate
Concen: 0.811 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

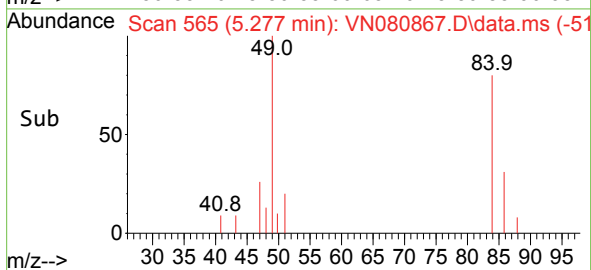
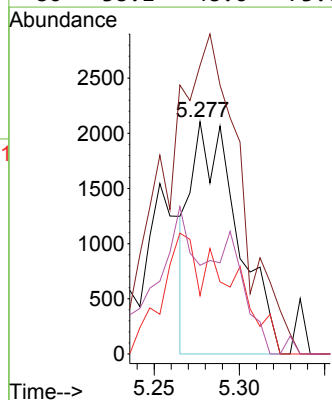
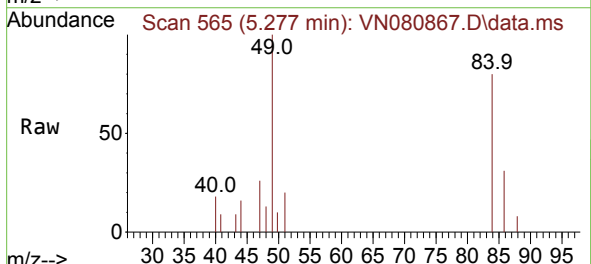
Instrument :
MSVOA_N
ClientSampleId :
TP-2

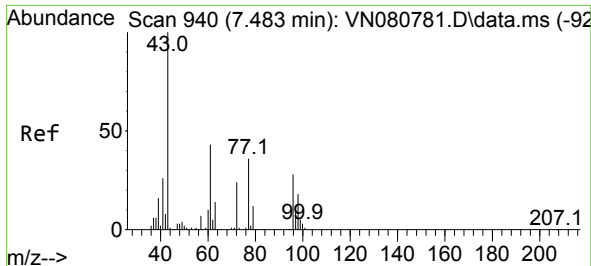
Tgt Ion: 43 Resp: 1496
Ion Ratio Lower Upper
43 100
74 21.5 17.3 25.9



#20
Methylene Chloride
Concen: 2.889 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion: 84 Resp: 4015
Ion Ratio Lower Upper
84 100
49 105.5 108.1 162.1#
51 25.2 32.9 49.3#
86 38.1 48.6 73.0#

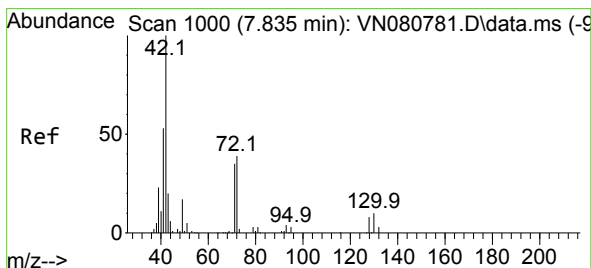
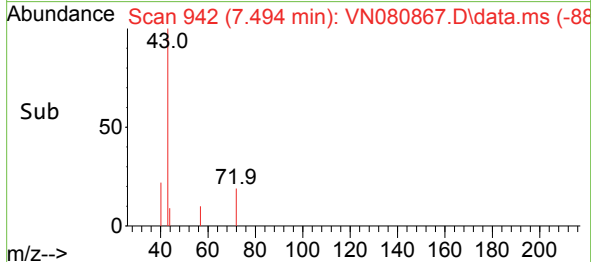
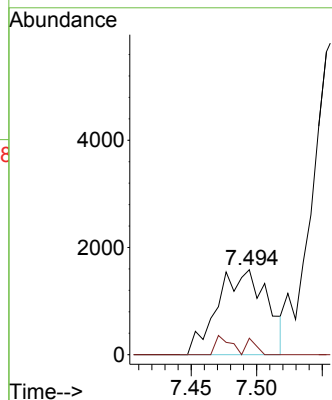
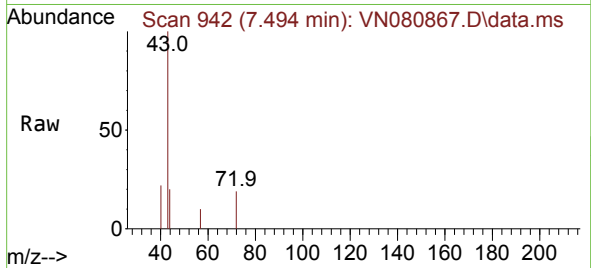




#25
2-Butanone
Concen: 4.161 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

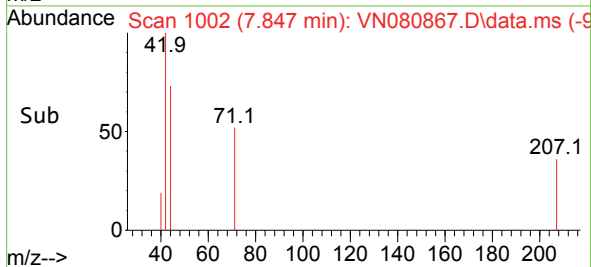
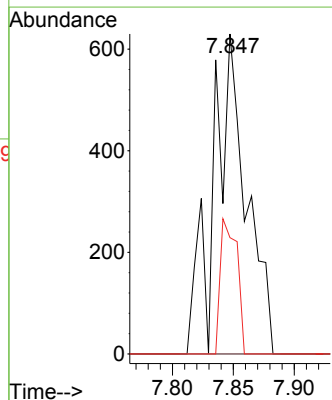
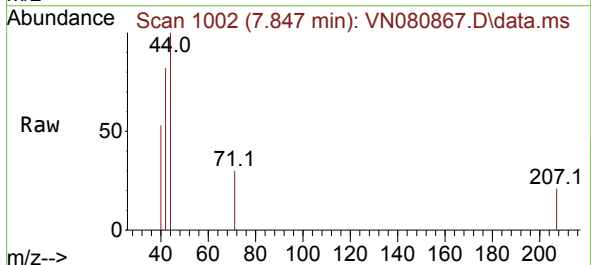
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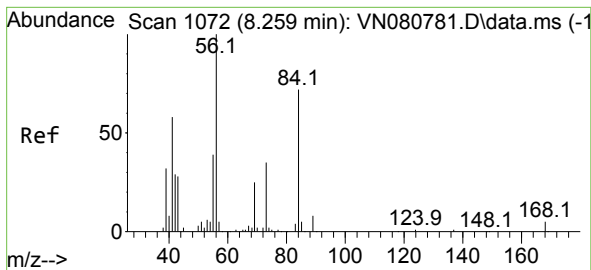
Tgt Ion: 43 Resp: 4184
Ion Ratio Lower Upper
43 100
72 19.4 19.5 29.3#



#29
Tetrahydrofuran
Concen: 1.752 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion: 42 Resp: 1192
Ion Ratio Lower Upper
42 100
72 0.0 31.1 46.7#
71 21.2 28.3 42.5#

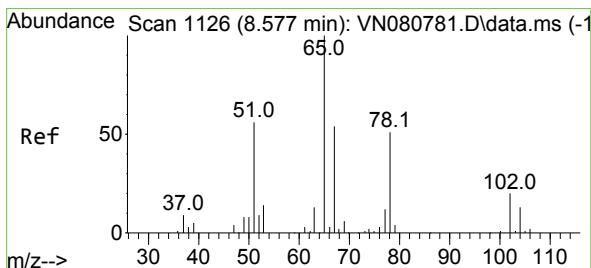
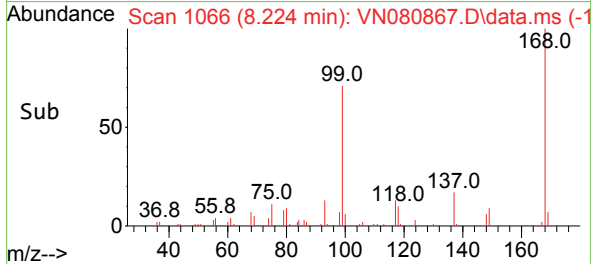
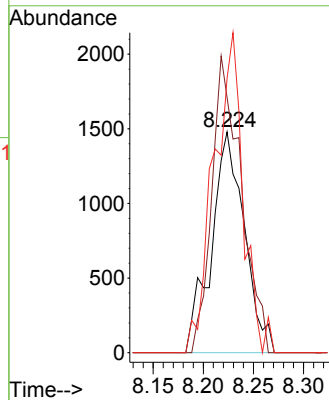
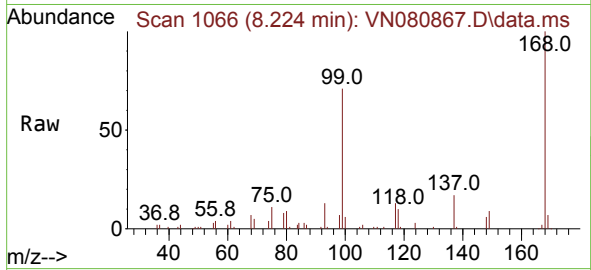




#31
Cyclohexane
Concen: 1.352 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

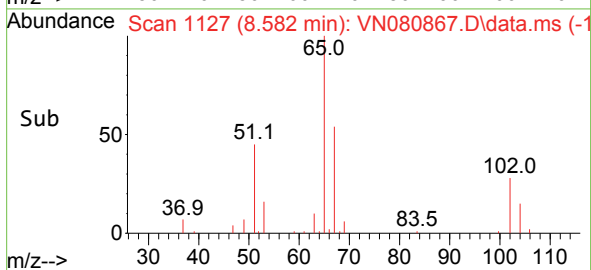
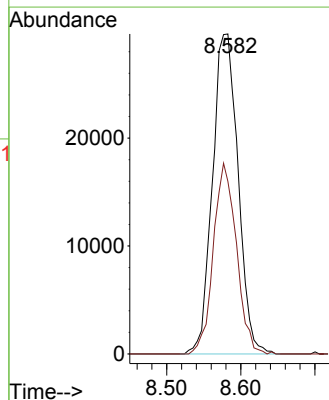
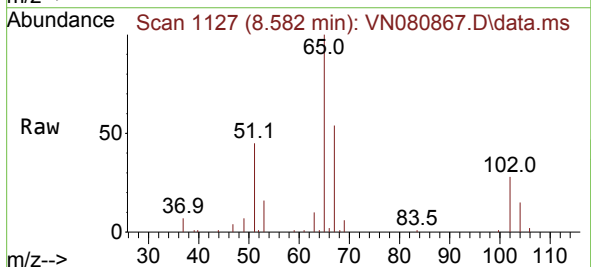
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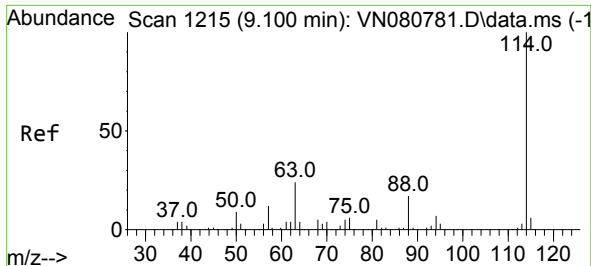
Tgt Ion: 56 Resp: 3384
Ion Ratio Lower Upper
56 100
69 115.6 20.1 30.1#
84 124.3 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 48.662 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion: 65 Resp: 71030
Ion Ratio Lower Upper
65 100
67 53.9 0.0 102.4

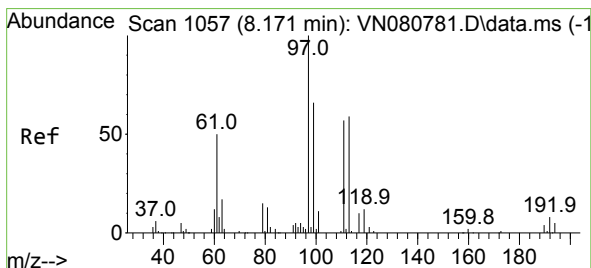
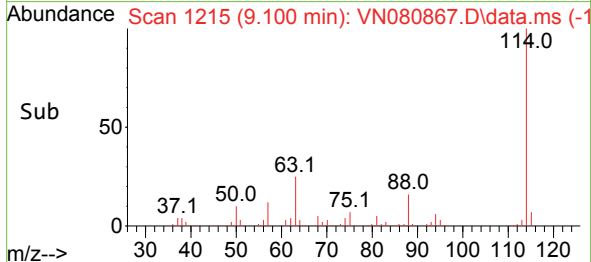
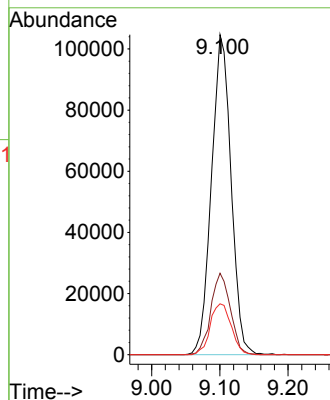
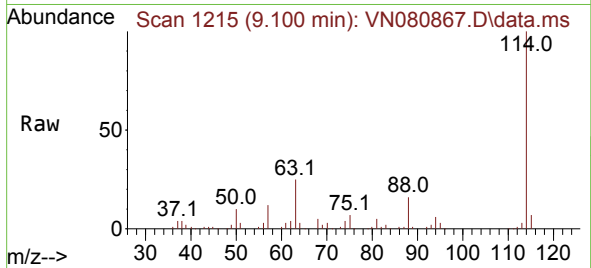




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

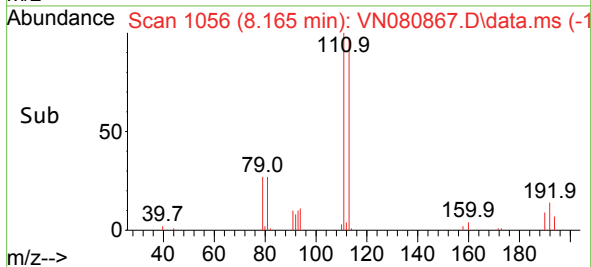
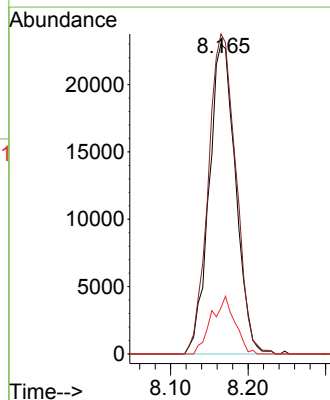
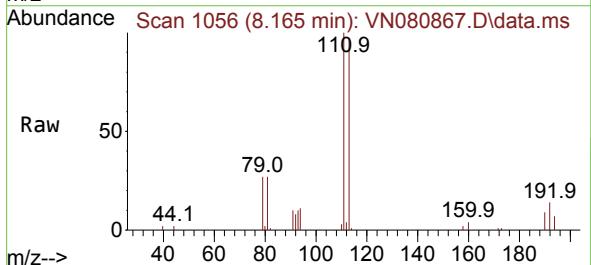
Instrument :
MSVOA_N
ClientSampleId :
TP-2

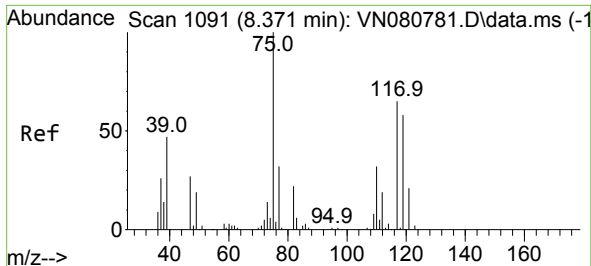
Tgt Ion:114 Resp: 209225
Ion Ratio Lower Upper
114 100
63 25.4 0.0 48.0
88 15.9 0.0 34.8



#35
Dibromofluoromethane
Concen: 42.877 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion:113 Resp: 54885
Ion Ratio Lower Upper
113 100
111 107.2 82.2 123.4
192 16.5 12.5 18.7

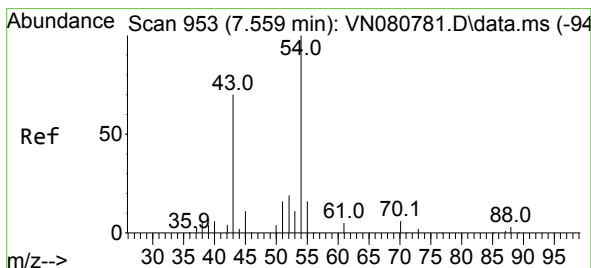
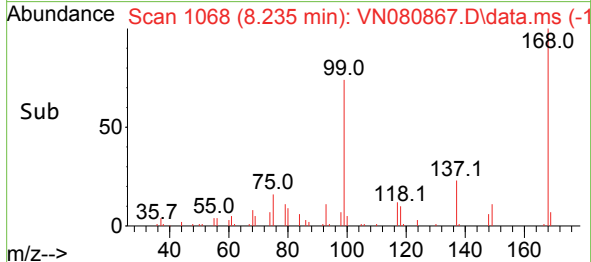
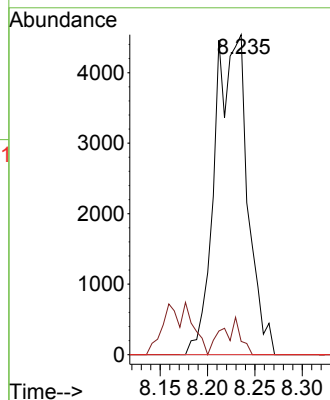
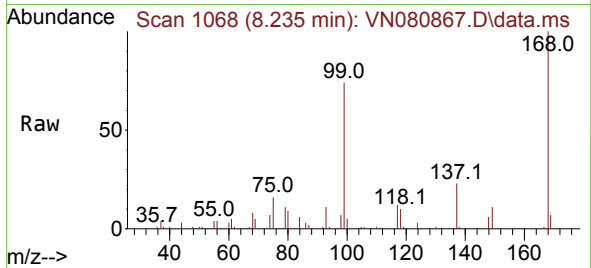




#36
1,1-Dichloropropene
Concen: 4.565 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

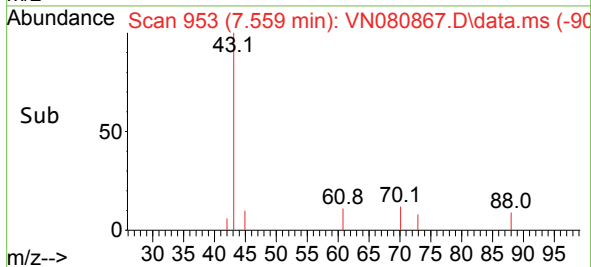
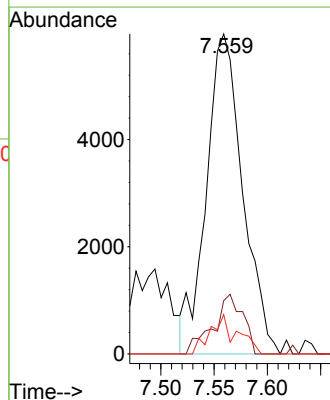
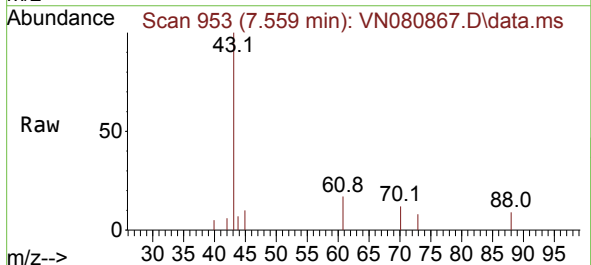
Instrument :
MSVOA_N
ClientSampleId :
TP-2

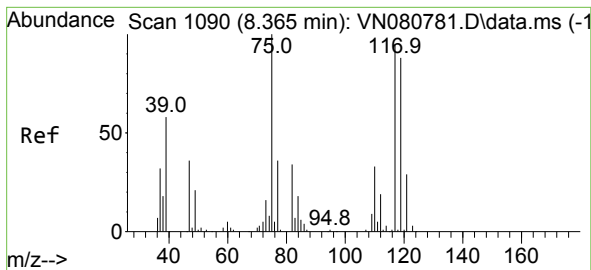
Tgt Ion: 75 Resp: 10862
Ion Ratio Lower Upper
75 100
110 3.6 16.0 48.0#
77 0.0 25.8 38.6#



#37
Ethyl Acetate
Concen: 5.795 ug/l
RT: 7.559 min Scan# 953
Delta R.T. 0.000 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion: 43 Resp: 14193
Ion Ratio Lower Upper
43 100
61 15.2 10.6 15.8
70 9.1 8.0 12.0





#38

Carbon Tetrachloride

Concen: 5.637 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN080867.D

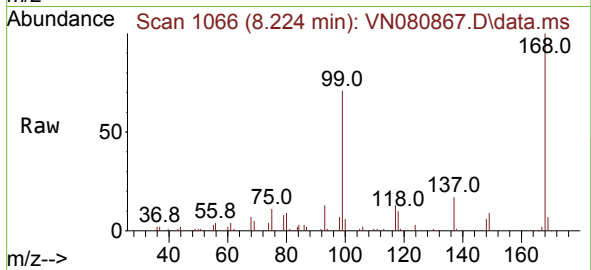
Acq: 01 Feb 2024 14:01

Instrument :

MSVOA_N

ClientSampleId :

TP-2



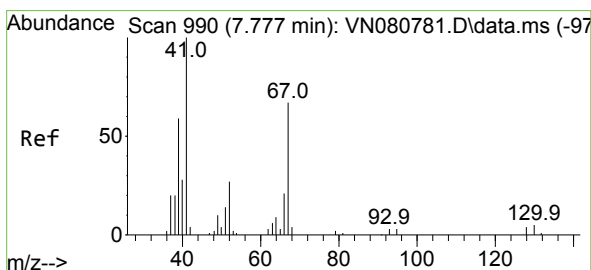
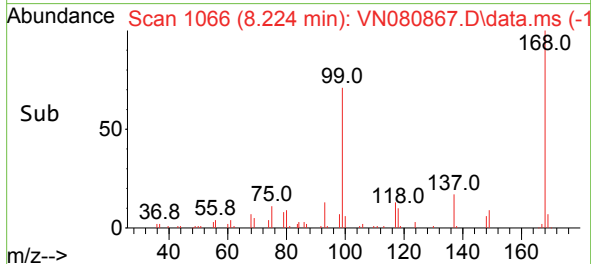
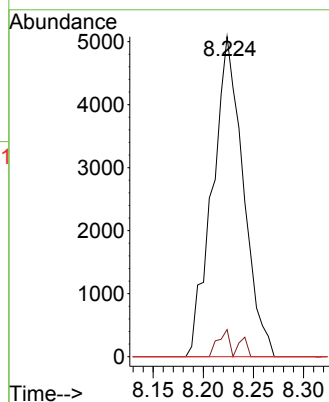
Tgt Ion:117 Resp: 10805

Ion Ratio Lower Upper

117 100

119 8.5 73.4 110.2#

121 0.0 24.4 36.6#



#41

Methacrylonitrile

Concen: 0.311 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.059 min

Lab File: VN080867.D

Acq: 01 Feb 2024 14:01

Tgt Ion: 41 Resp: 449

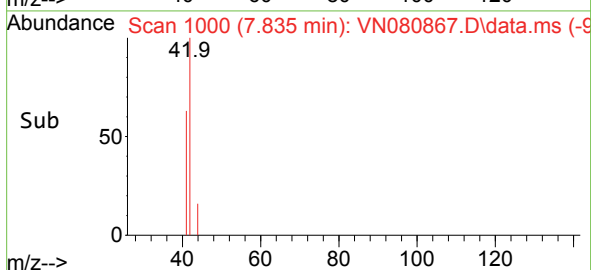
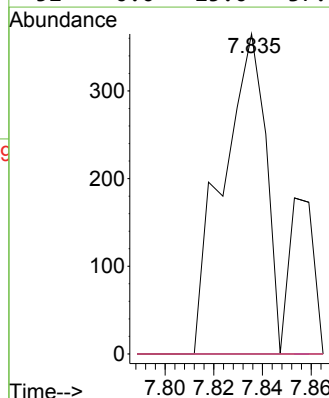
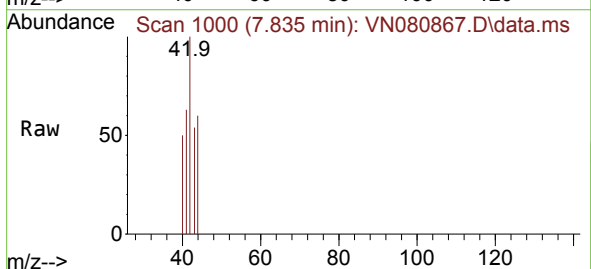
Ion Ratio Lower Upper

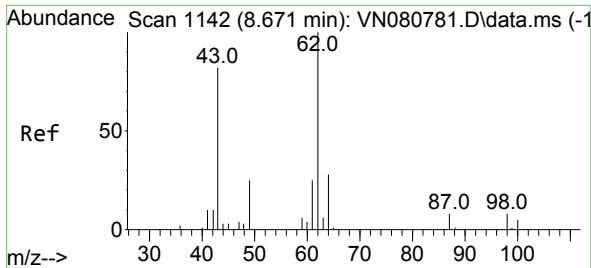
41 100

39 0.0 48.4 72.6#

67 0.0 56.8 85.2#

52 0.0 25.0 37.4#





#42

1,2-Dichloroethane

Concen: 0.271 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN080867.D

Acq: 01 Feb 2024 14:01

Instrument :

MSVOA_N

ClientSampleId :

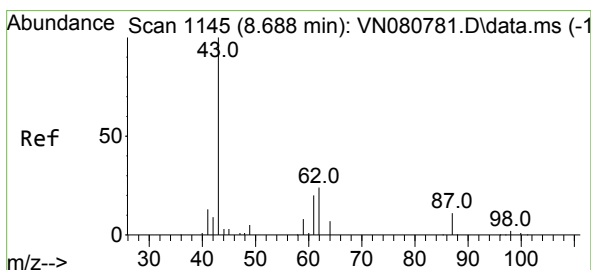
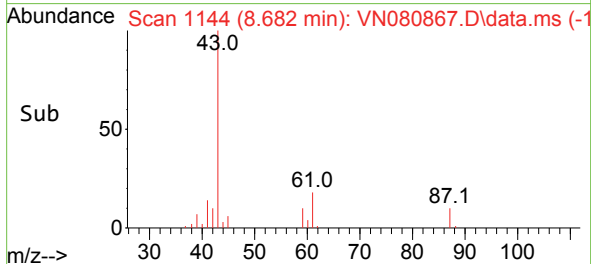
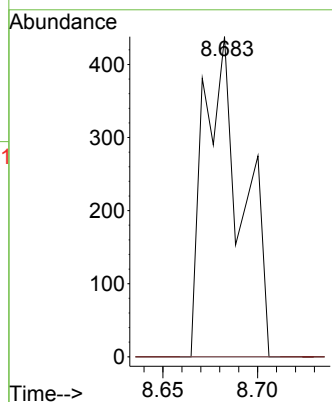
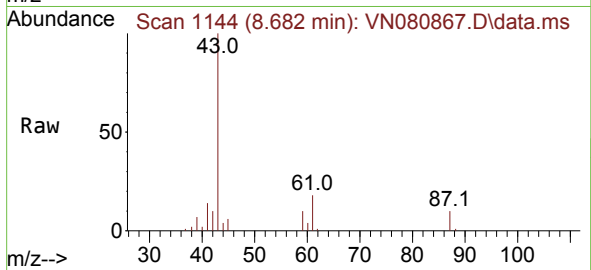
TP-2

Tgt Ion: 62 Resp: 618

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#43

Isopropyl Acetate

Concen: 29.323 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN080867.D

Acq: 01 Feb 2024 14:01

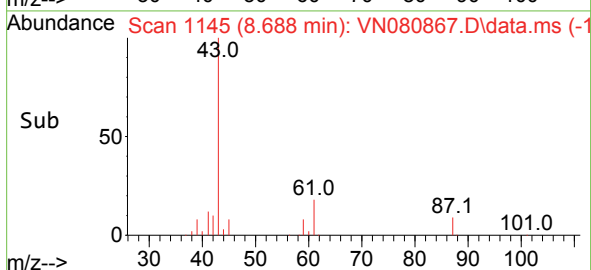
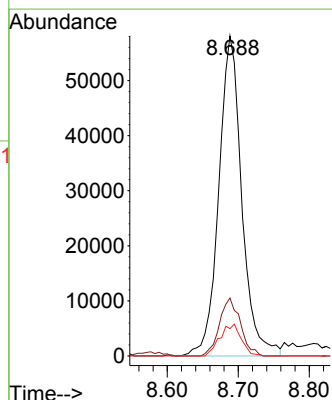
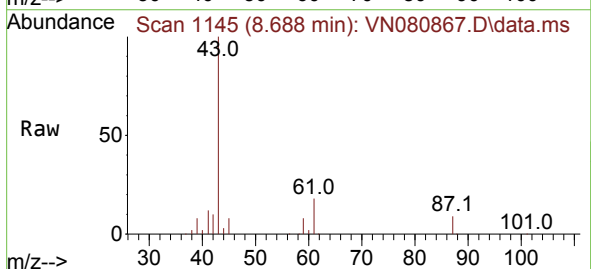
Tgt Ion: 43 Resp: 130753

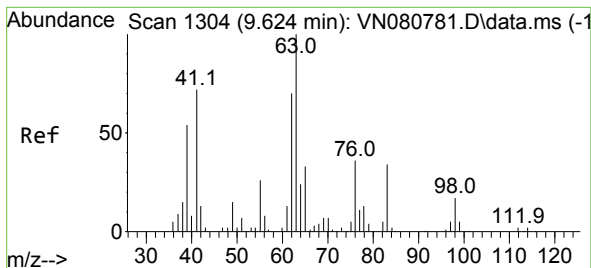
Ion Ratio Lower Upper

43 100

61 16.4 19.9 29.9#

87 9.2 9.0 13.6





#45

1,2-Dichloropropane

Concen: 0.661 ug/l

RT: 9.753 min Scan# 11

Delta R.T. 0.129 min

Lab File: VN080867.D

Acq: 01 Feb 2024 14:01

Instrument :

MSVOA_N

ClientSampleId :

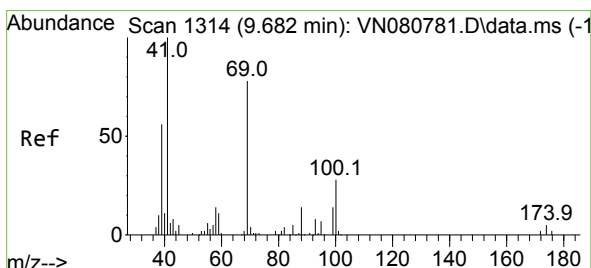
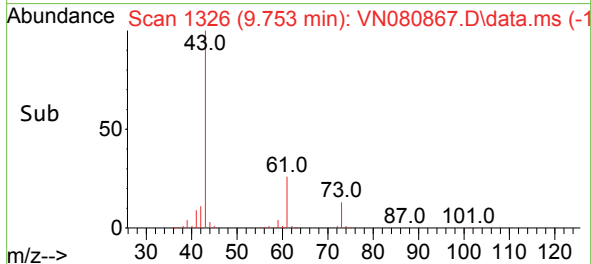
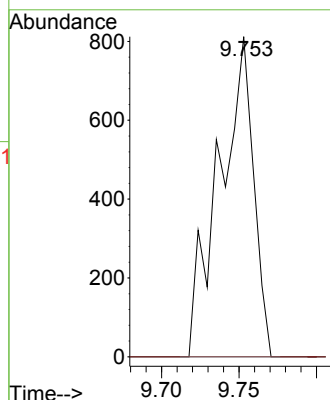
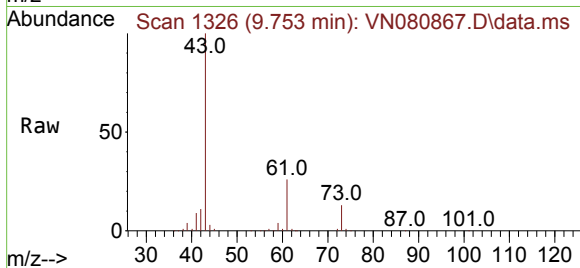
TP-2

Tgt Ion: 63 Resp: 1250

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.675 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.023 min

Lab File: VN080867.D

Acq: 01 Feb 2024 14:01

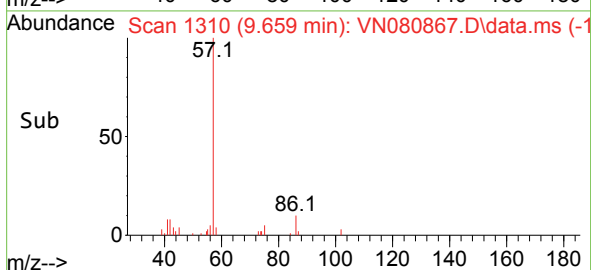
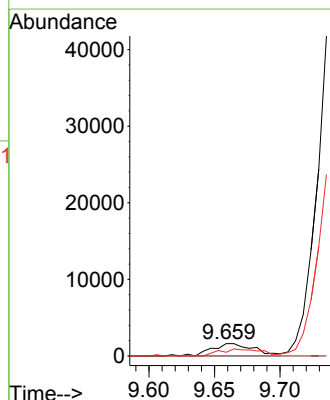
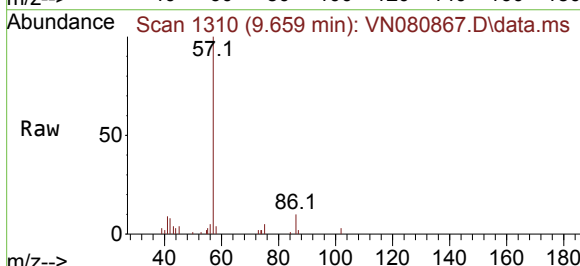
Tgt Ion: 41 Resp: 3620

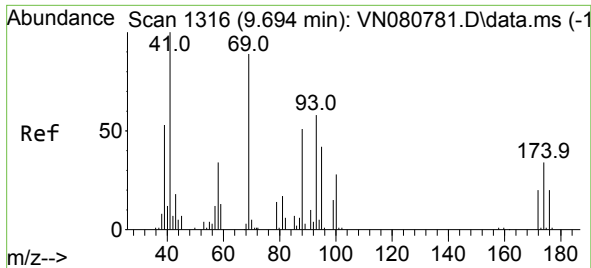
Ion Ratio Lower Upper

41 100

69 0.0 62.2 93.2#

39 54.3 47.6 71.4





#49

1,4-Dioxane

Concen: 2.650 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN080867.D

Acq: 01 Feb 2024 14:01

Instrument :

MSVOA_N

ClientSampleId :

TP-2

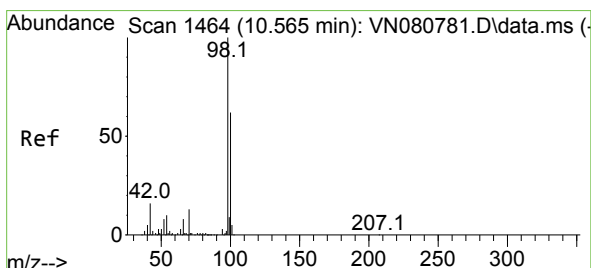
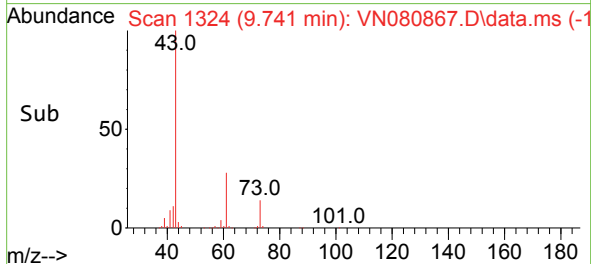
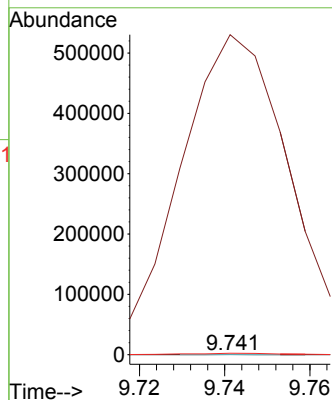
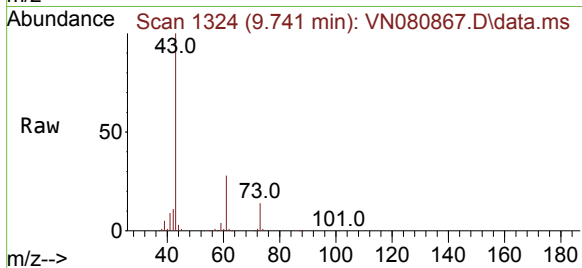
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 1411556.5 30.1 45.1#

58 5684.1 63.9 95.9#



#50

Toluene-d8

Concen: 47.757 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080867.D

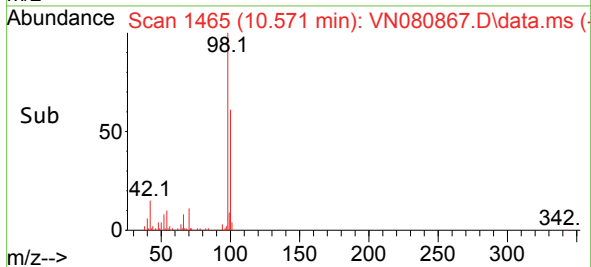
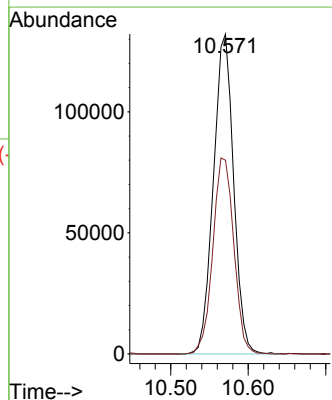
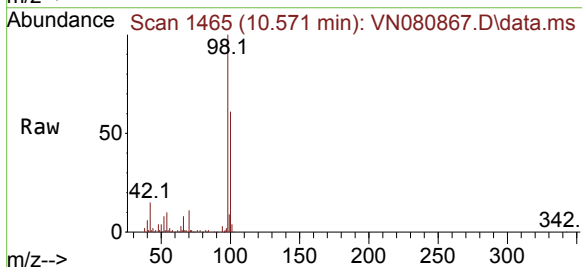
Acq: 01 Feb 2024 14:01

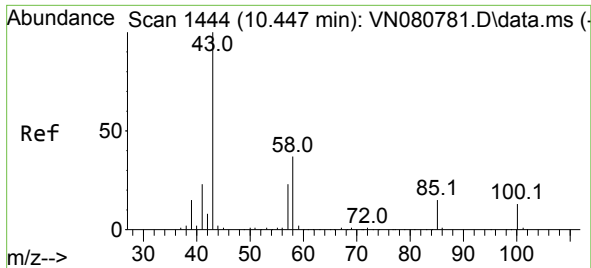
Tgt Ion: 98 Resp: 239261

Ion Ratio Lower Upper

98 100

100 63.6 51.4 77.0

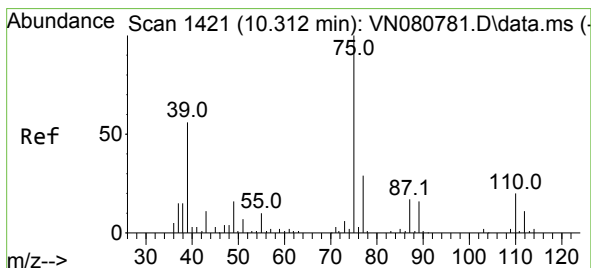
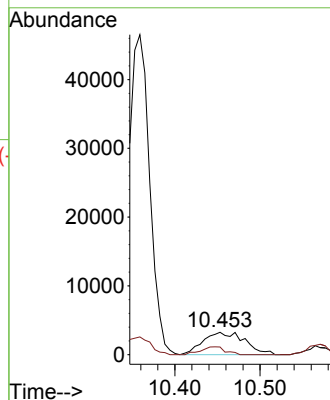
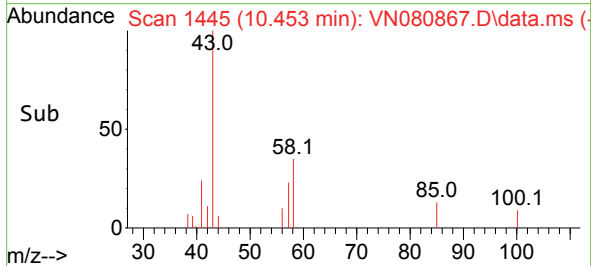
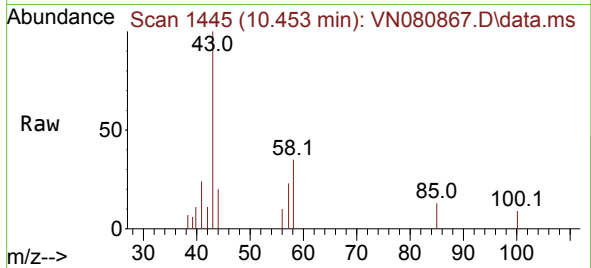




#51
4-Methyl-2-Pentanone
Concen: 4.462 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

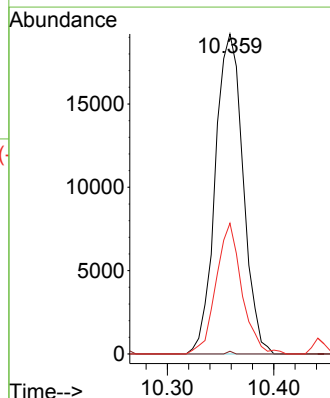
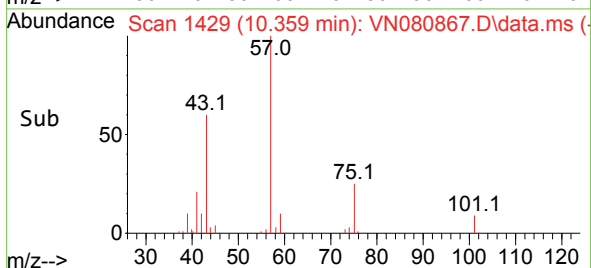
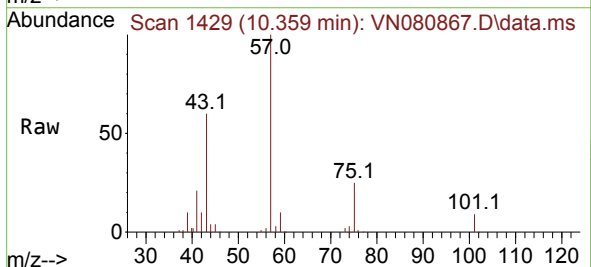
Instrument :
MSVOA_N
ClientSampleId :
TP-2

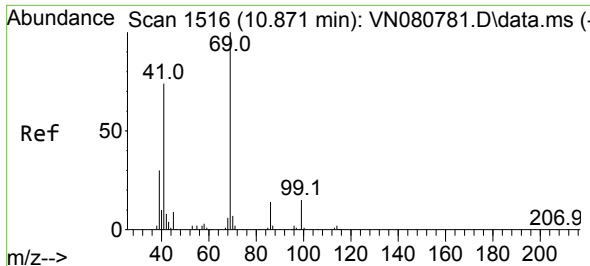
Tgt Ion: 43 Resp: 11122
Ion Ratio Lower Upper
43 100
58 20.7 29.4 44.0#



#54
cis-1,3-Dichloropropene
Concen: 12.064 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion: 75 Resp: 34808
Ion Ratio Lower Upper
75 100
77 0.8 23.3 34.9#
39 40.8 44.6 66.8#

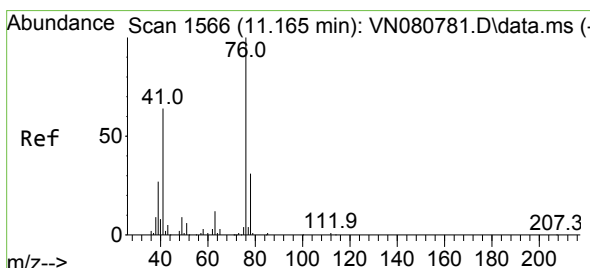
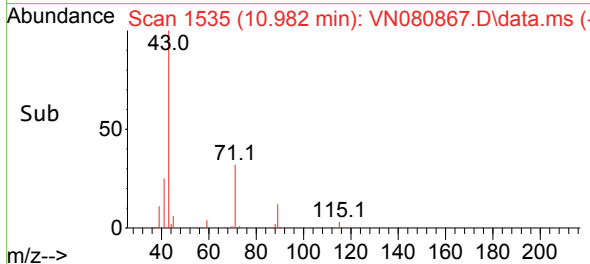
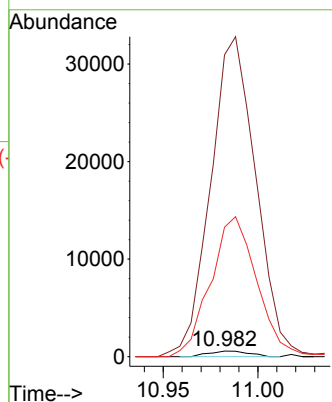
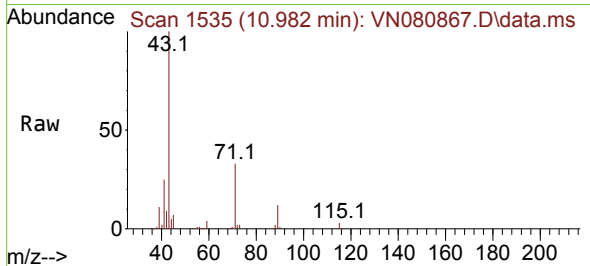




#56
Ethyl methacrylate
Concen: 0.360 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

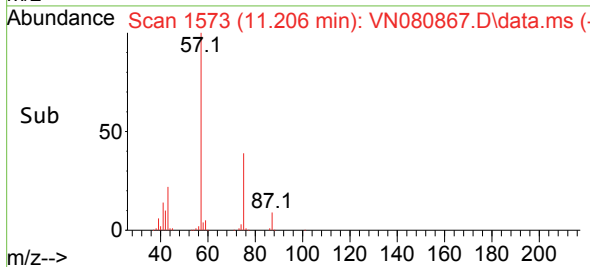
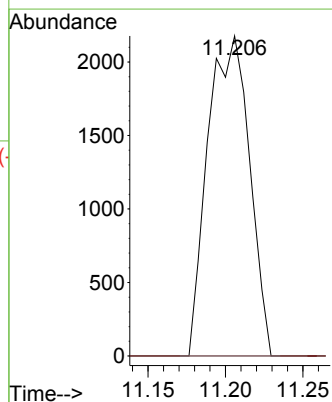
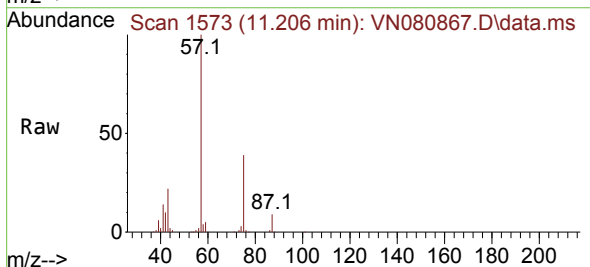
Instrument :
MSVOA_N
ClientSampleId :
TP-2

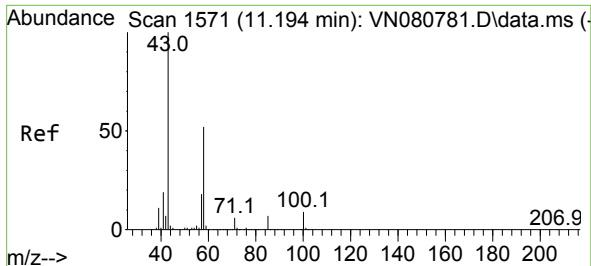
Tgt Ion: 69 Resp: 853
Ion Ratio Lower Upper
69 100
41 6443.8 61.0 91.6#
39 2880.1 31.8 47.6#



#57
1,3-Dichloropropane
Concen: 1.402 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion: 76 Resp: 4067
Ion Ratio Lower Upper
76 100
78 0.0 25.5 38.3#

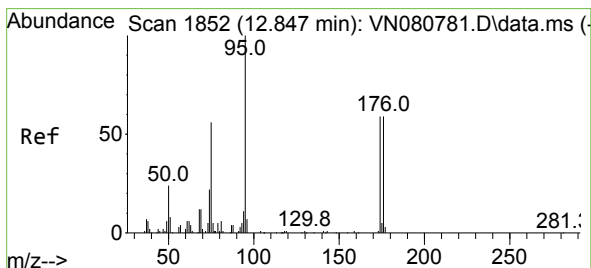
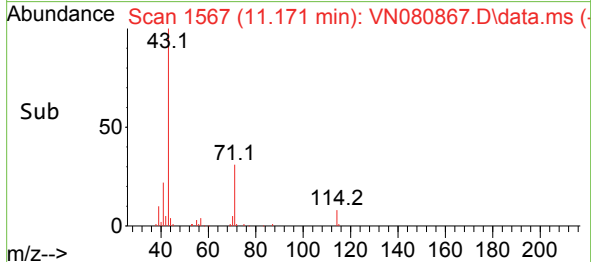
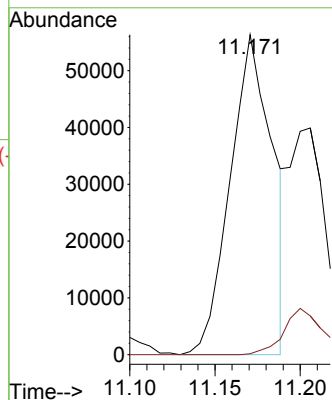
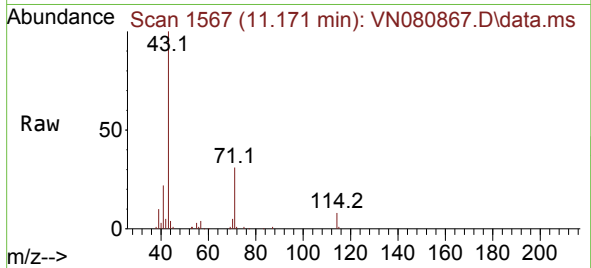




#59
2-Hexanone
Concen: 50.113 ug/l
RT: 11.171 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

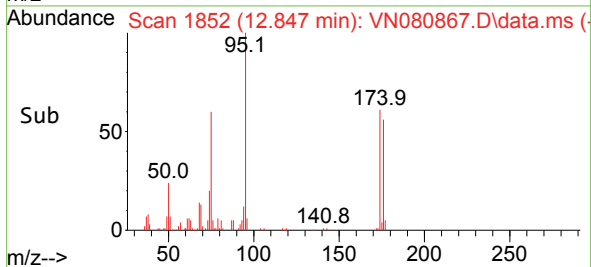
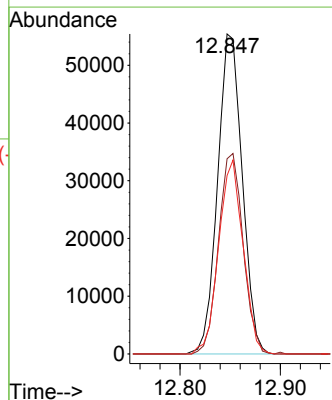
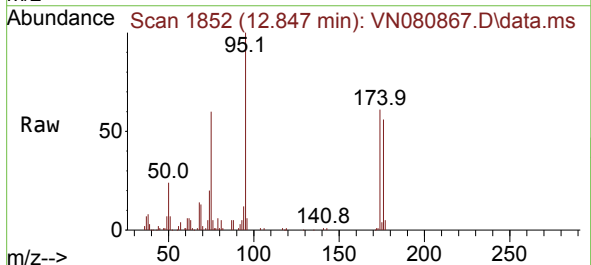
Instrument :
MSVOA_N
ClientSampleId :
TP-2

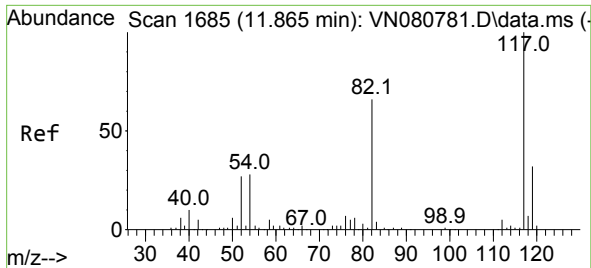
Tgt Ion: 43 Resp: 97033
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 54.201 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion: 95 Resp: 94628
Ion Ratio Lower Upper
95 100
174 62.5 0.0 120.4
176 60.1 0.0 121.0

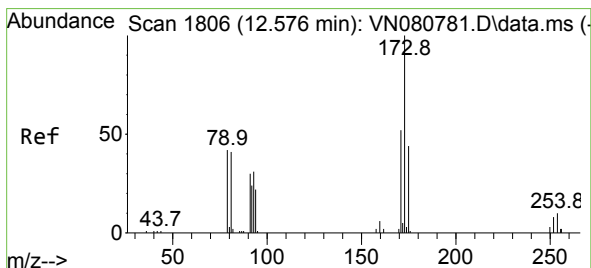
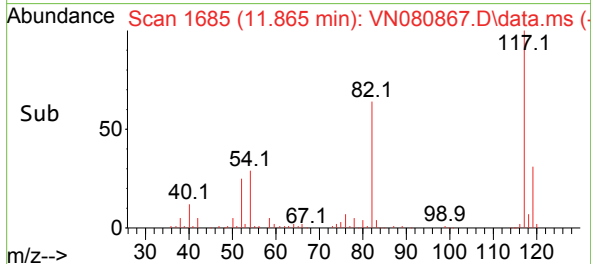
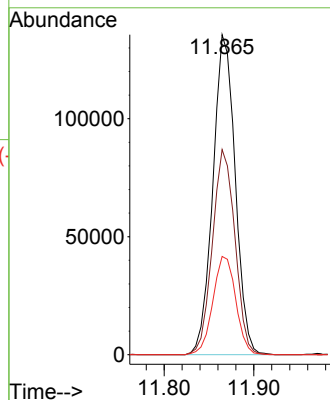
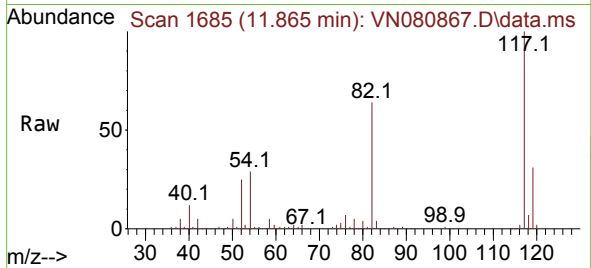




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

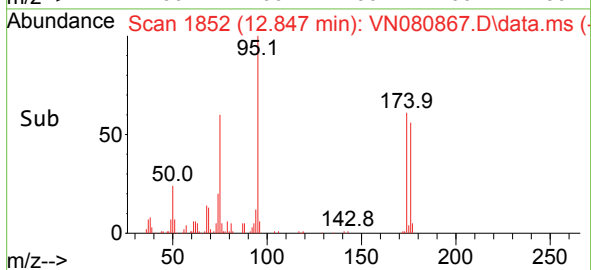
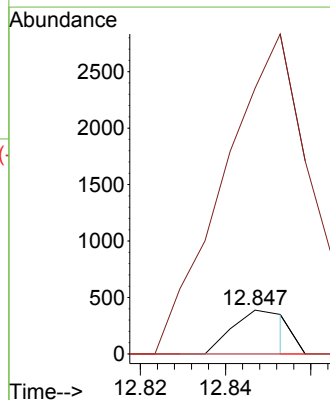
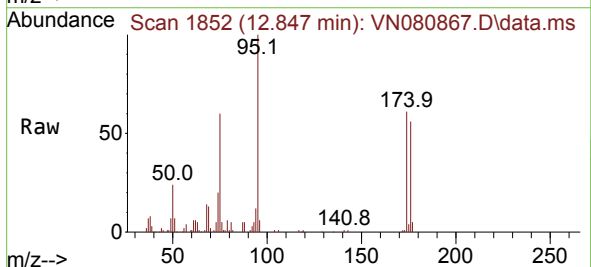
Instrument :
MSVOA_N
ClientSampleId :
TP-2

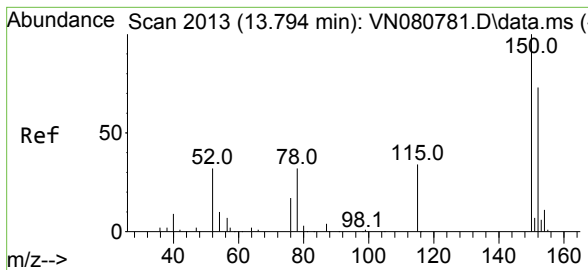
Tgt Ion:117 Resp: 234496
Ion Ratio Lower Upper
117 100
82 64.1 52.7 79.1
119 30.7 25.3 37.9



#71
Bromoform
Concen: 0.301 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion:173 Resp: 339
Ion Ratio Lower Upper
173 100
175 0.0 23.1 69.2#
254 0.0 0.0 0.0

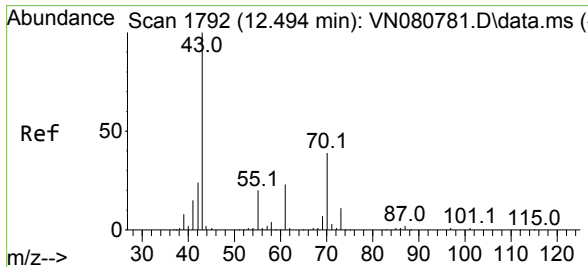
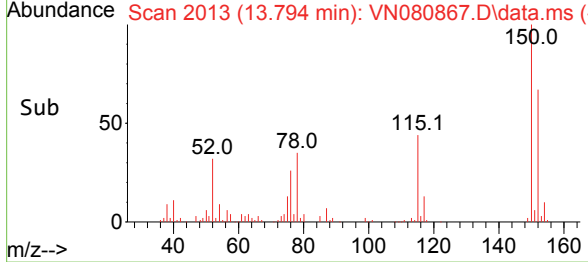
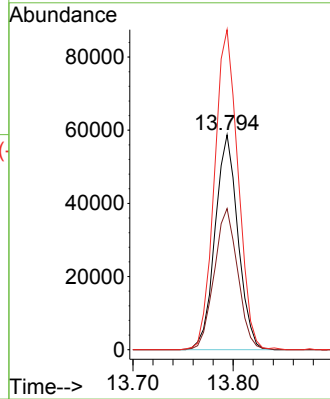
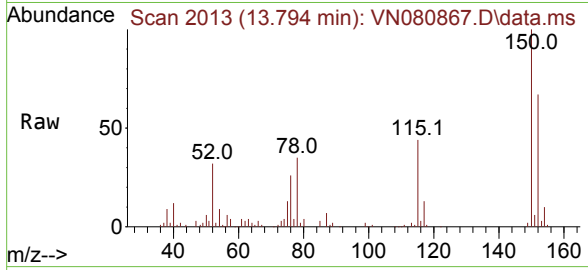




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

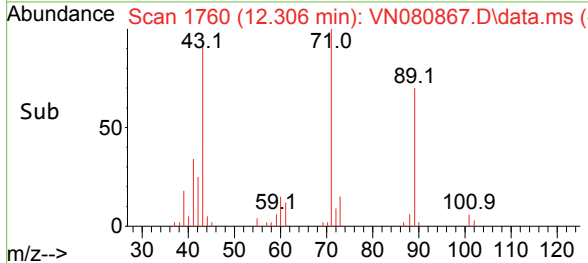
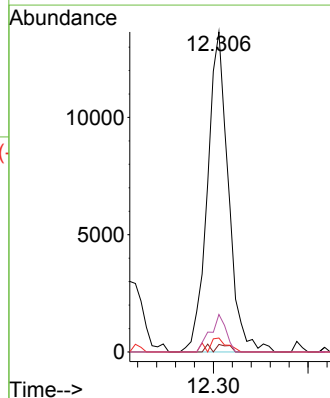
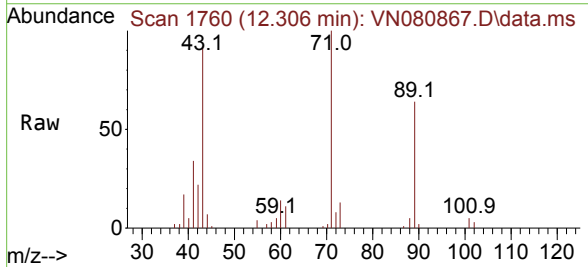
Instrument :
MSVOA_N
ClientSampleId :
TP-2

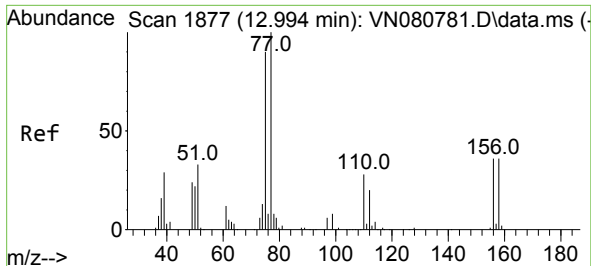
Tgt Ion:152 Resp: 93151
Ion Ratio Lower Upper
152 100
115 67.5 32.3 96.8
150 153.6 0.0 339.8



#74
N-ethyl acetate
Concen: 3.960 ug/l
RT: 12.306 min Scan# 1760
Delta R.T. -0.188 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion: 43 Resp: 20974
Ion Ratio Lower Upper
43 100
70 1.4 30.1 45.1#
55 3.8 17.0 25.4#
61 8.8 17.5 26.3#

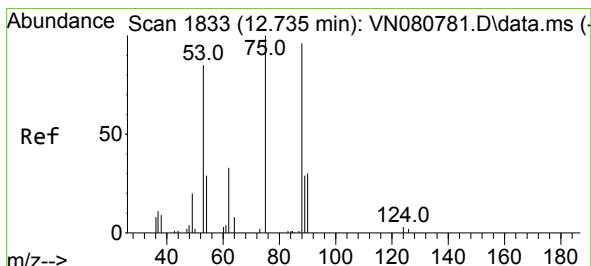
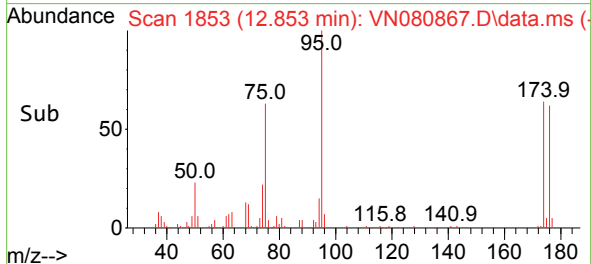
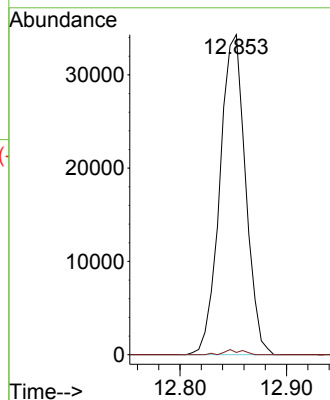
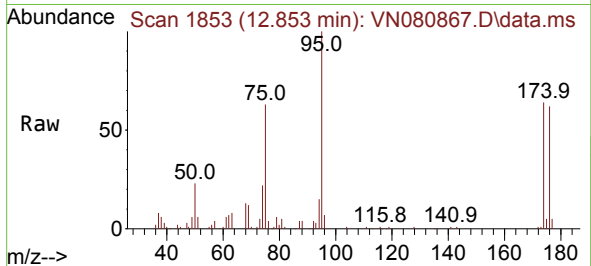




#76
1,2,3-Trichloropropane
Concen: 20.444 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Tgt Ion: 75 Resp: 57437
Ion Ratio Lower Upper
75 100
77 1.1 91.0 272.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 52.668 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN080867.D
Acq: 01 Feb 2024 14:01

Tgt Ion: 75 Resp: 57437
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.2#
89 0.0 33.4 50.0#

