

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
 Data File : VN078518.D
 Acq On : 14 Jul 2023 13:33
 Operator : JC\MD
 Sample : PB154166TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB154166TB

Quant Time: Jul 15 04:00:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

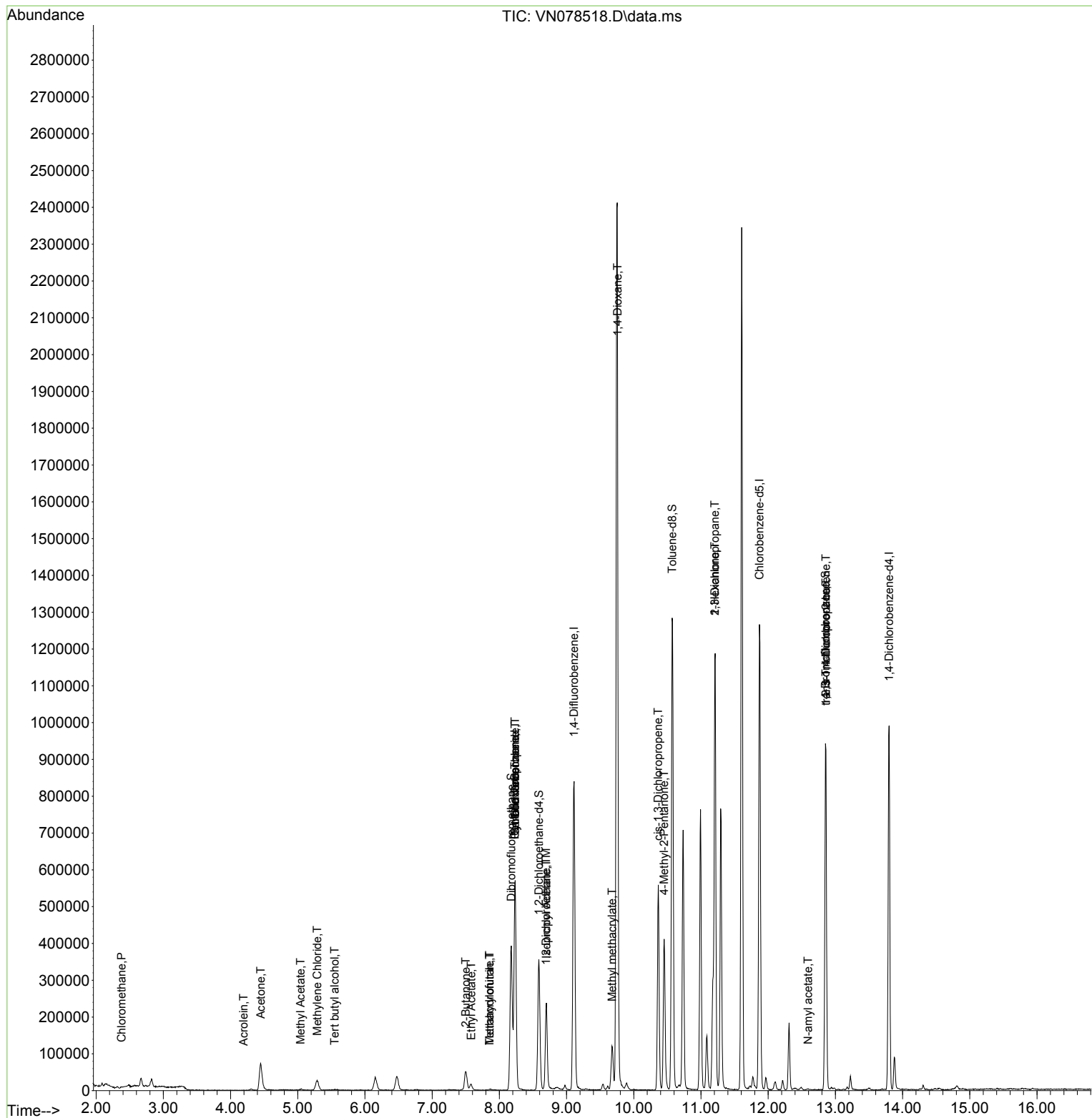
Internal Standards						
1) Pentafluorobenzene	8.229	168	420896	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	768141	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	772021	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	276410	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	284264	50.379	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.760%			
35) Dibromofluoromethane	8.177	113	285375	54.728	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.460%			
50) Toluene-d8	10.570	98	934500	47.440	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.880%			
62) 4-Bromofluorobenzene	12.853	95	333640	54.988	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 109.980%			
Target Compounds						Qvalue
3) Chloromethane	2.377	50	1414	0.252	ug/l #	42
5) Bromomethane	2.977	94	2623	Below Cal	#	54
6) Chloroethane	3.124	64	518	Below Cal	#	43
11) Tert butyl alcohol	5.547	59	1469	1.688	ug/l #	84
13) Acrolein	4.194	56	194	0.227	ug/l #	37
16) Acetone	4.447	43	134034	76.257	ug/l	94
18) Methyl Acetate	5.041	43	4962	0.667	ug/l #	76
20) Methylene Chloride	5.288	84	22427	3.306	ug/l	92
25) 2-Butanone	7.500	43	81429	29.431	ug/l #	86
29) Tetrahydrofuran	7.853	42	875	0.482	ug/l #	75
31) Cyclohexane	8.229	56	9347	1.226	ug/l #	6
36) 1,1-Dichloropropene	8.235	75	34339	4.561	ug/l #	47
37) Ethyl Acetate	7.582	43	21656	3.450	ug/l	98
38) Carbon Tetrachloride	8.235	117	45816	5.599	ug/l #	15
41) Methacrylonitrile	7.853	41	652	0.204	ug/l #	27
42) 1,2-Dichloroethane	8.694	62	1948	0.257	ug/l #	73
43) Isopropyl Acetate	8.700	43	257568	24.926	ug/l #	84
48) Methyl methacrylate	9.676	41	7100	1.483	ug/l #	35
49) 1,4-Dioxane	9.759	88	724	6.935	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	280345	45.612	ug/l	92
54) cis-1,3-Dichloropropene	10.365	75	104742	12.034	ug/l #	66
57) 1,3-Dichloropropane	11.206	76	14030	1.515	ug/l #	44
59) 2-Hexanone	11.206	43	154604	35.392	ug/l #	49
74) N-amyl acetate	12.594	43	3409	0.381	ug/l #	36
75) 1,1,2,2-Tetrachloroethane	12.935	83	275	Below Cal	#	90
76) 1,2,3-Trichloropropane	12.859	75	173652	25.991	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	173652	68.300	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.717	75	225	Below Cal	#	4

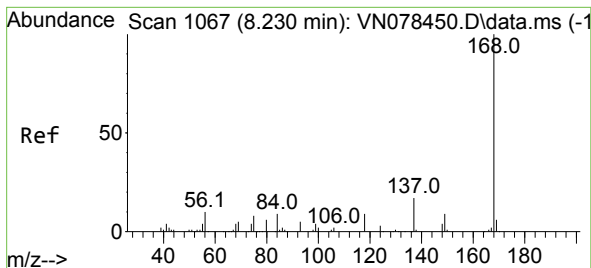
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jul 10 16:13:53 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.001 min

Lab File: VN078518.D

Acq: 14 Jul 2023 13:33

Instrument :

MSVOA_N

ClientSampleId :

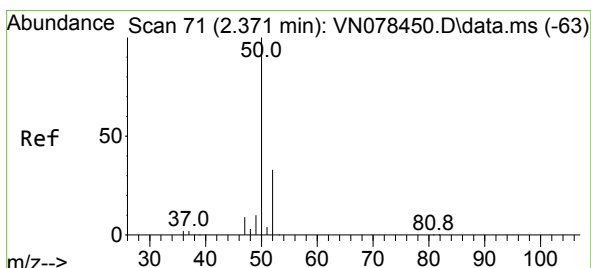
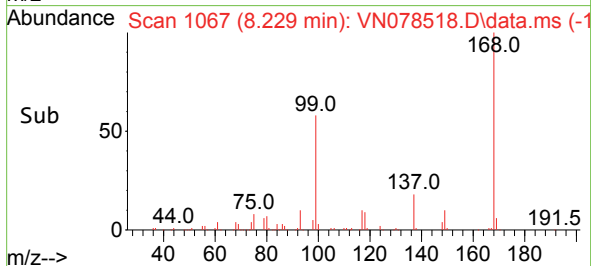
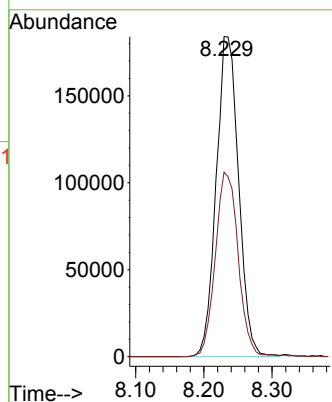
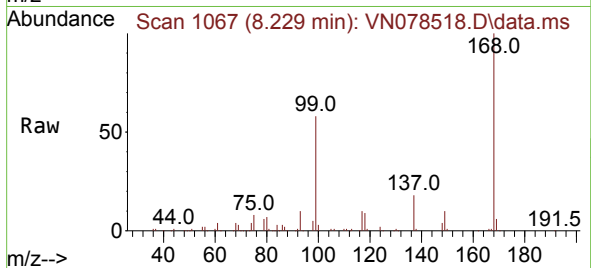
PB154166TB

Tgt Ion:168 Resp: 420896

Ion Ratio Lower Upper

168 100

99 57.6 53.0 79.6



#3

Chloromethane

Concen: 0.252 ug/l

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078518.D

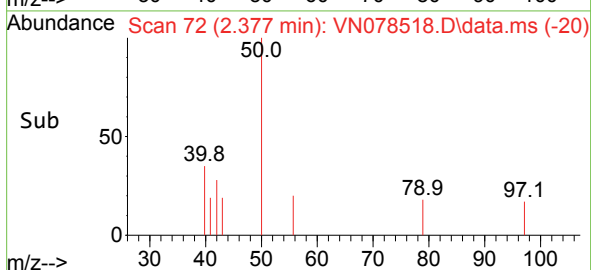
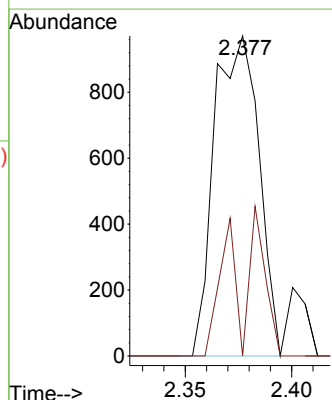
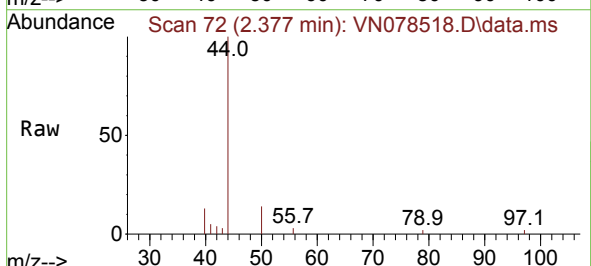
Acq: 14 Jul 2023 13:33

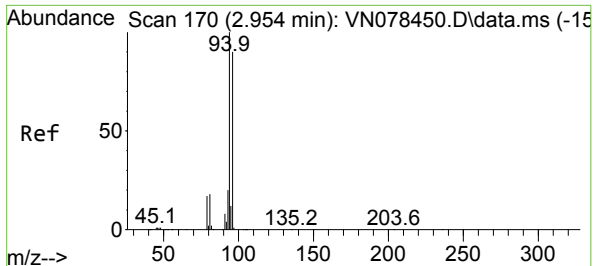
Tgt Ion: 50 Resp: 1414

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#

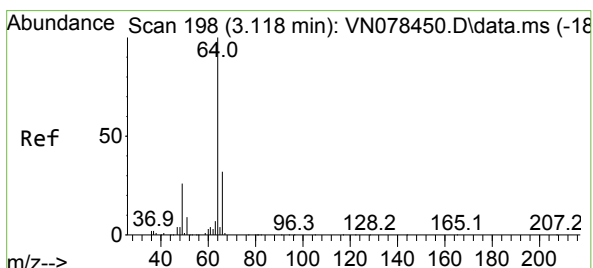
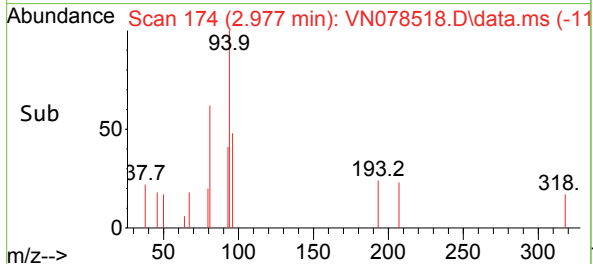
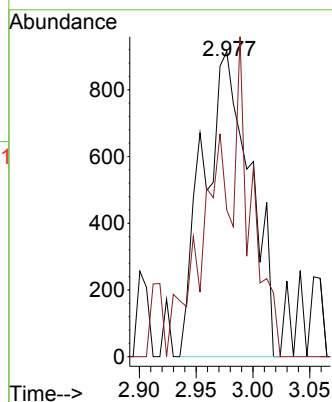
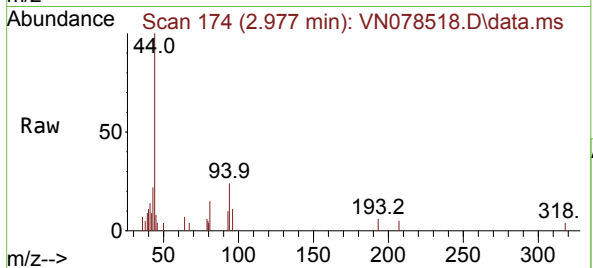




#5
Bromomethane
Concen: Below Cal
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

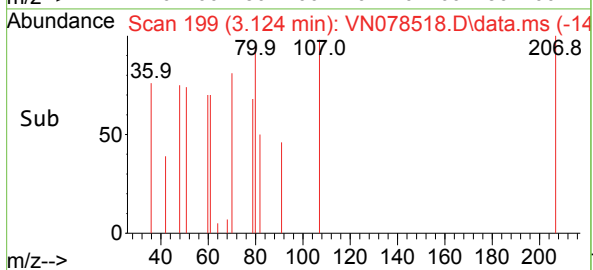
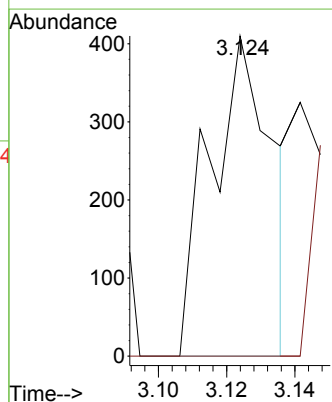
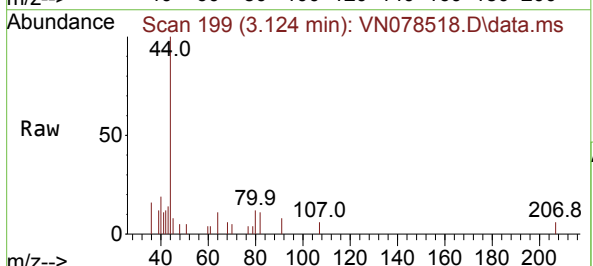
Instrument :
MSVOA_N
ClientSampleId :
PB154166TB

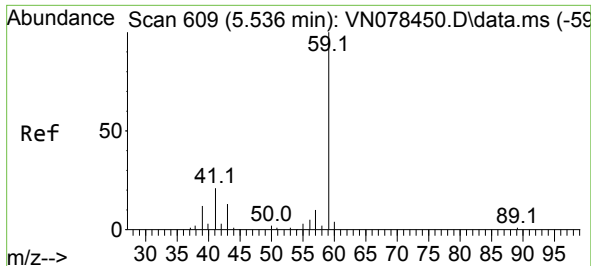
Tgt Ion: 94 Resp: 2623
Ion Ratio Lower Upper
94 100
96 48.1 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

Tgt Ion: 64 Resp: 518
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

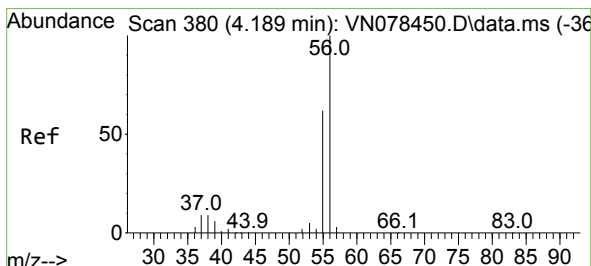
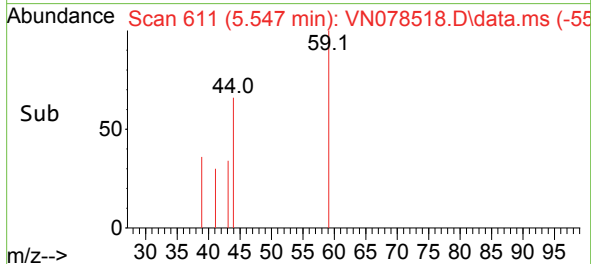
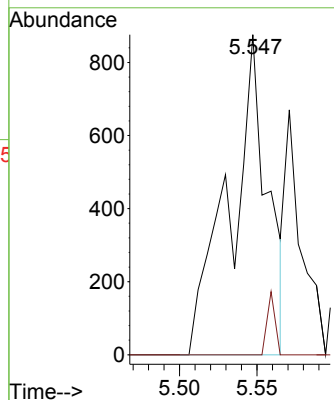
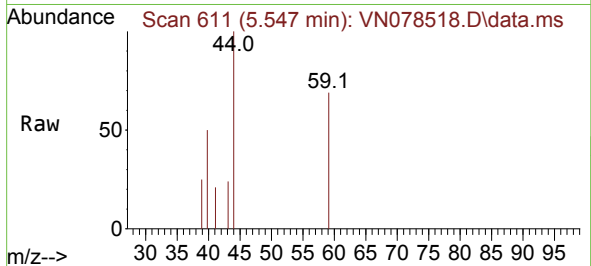




#11
Tert butyl alcohol
Concen: 1.688 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.011 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

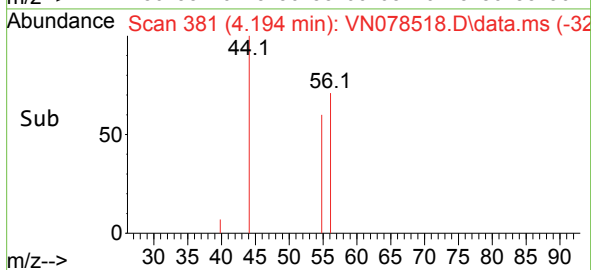
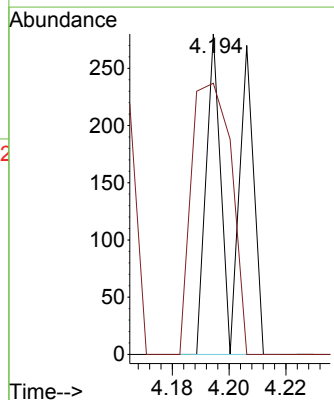
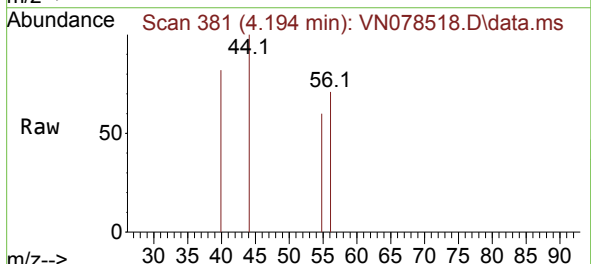
Instrument :
MSVOA_N
ClientSampleId :
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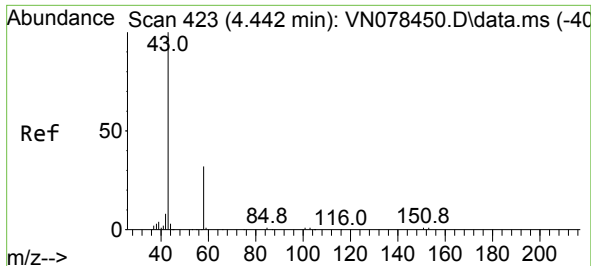
Tgt Ion: 59 Resp: 1469
Ion Ratio Lower Upper
59 100
57 4.2 8.2 12.4#



#13
Acrolein
Concen: 0.227 ug/l
RT: 4.194 min Scan# 381
Delta R.T. 0.005 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

Tgt Ion: 56 Resp: 194
Ion Ratio Lower Upper
56 100
55 119.1 54.5 81.7#

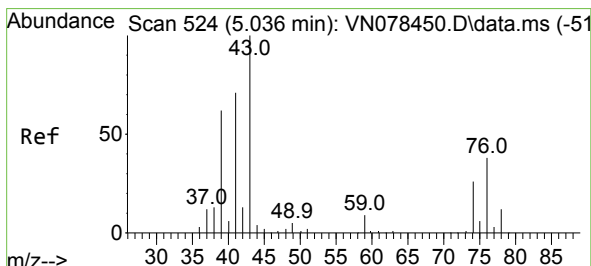
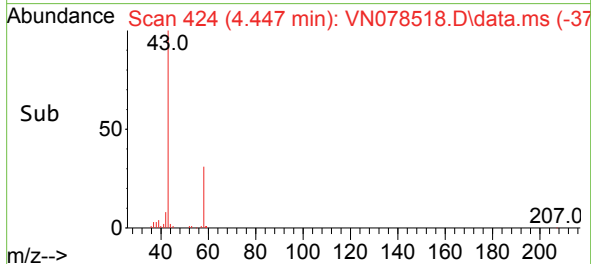
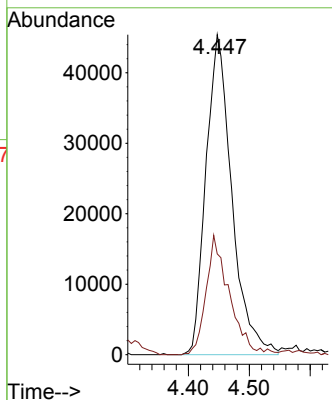
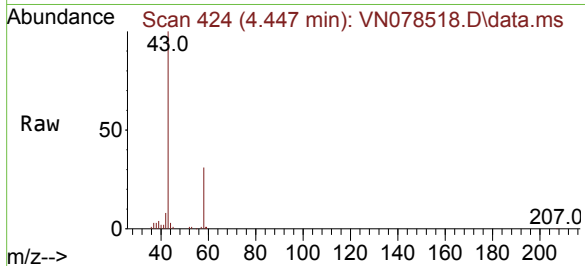




#16
Acetone
Concen: 76.257 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.005 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

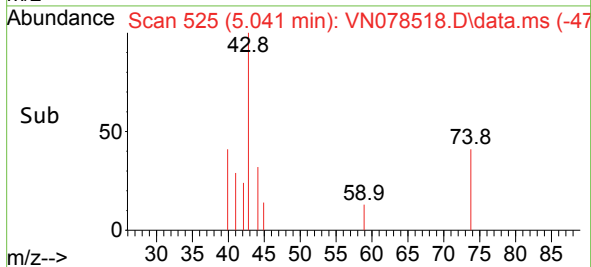
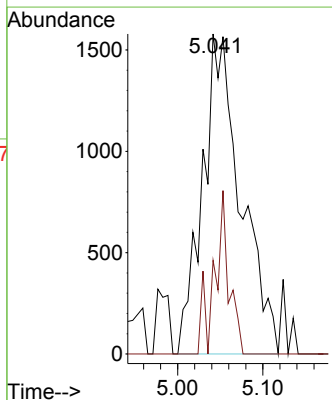
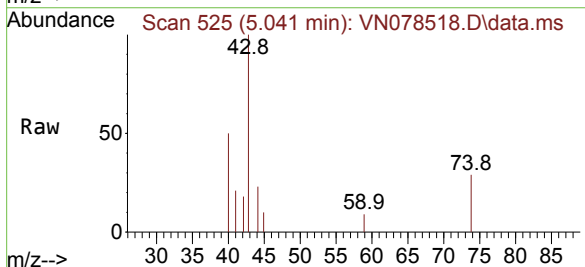
Instrument :
MSVOA_N
ClientSampleId :
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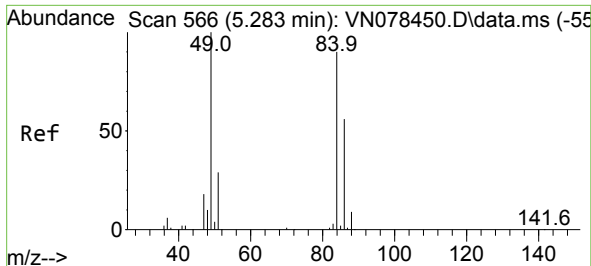
Tgt Ion: 43 Resp: 134034
Ion Ratio Lower Upper
43 100
58 31.5 28.0 42.0



#18
Methyl Acetate
Concen: 0.667 ug/l
RT: 5.041 min Scan# 525
Delta R.T. 0.005 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

Tgt Ion: 43 Resp: 4962
Ion Ratio Lower Upper
43 100
74 19.4 26.2 39.4#

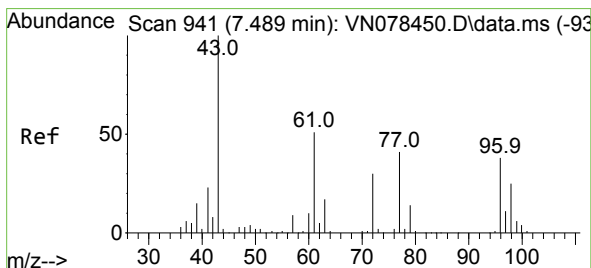
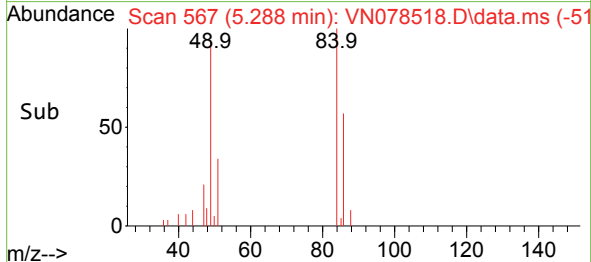
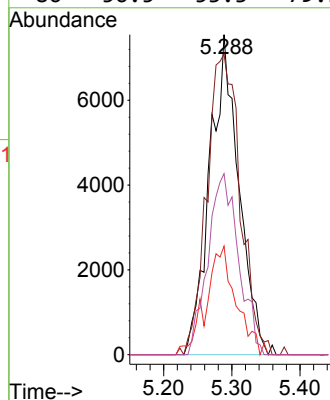
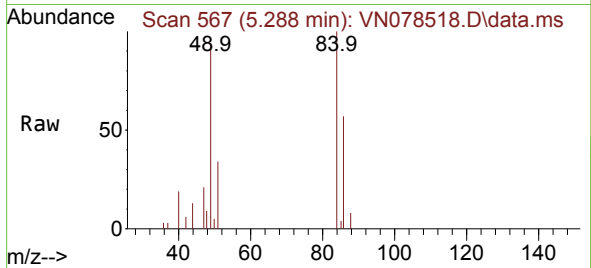




#20
Methylene Chloride
Concen: 3.306 ug/l
RT: 5.288 min Scan# 501
Delta R.T. 0.005 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

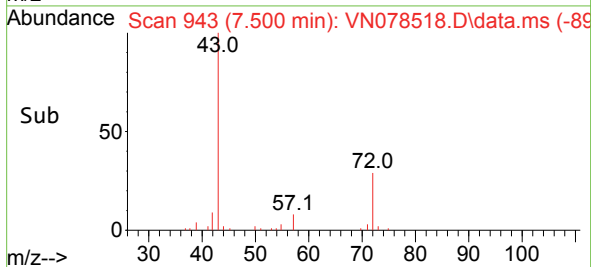
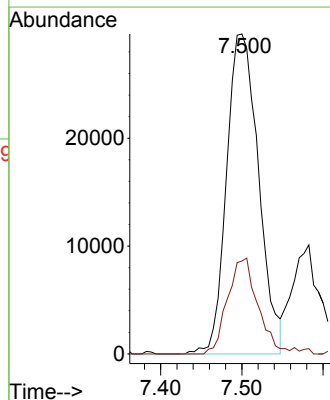
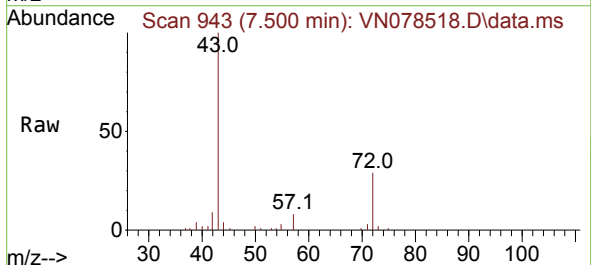
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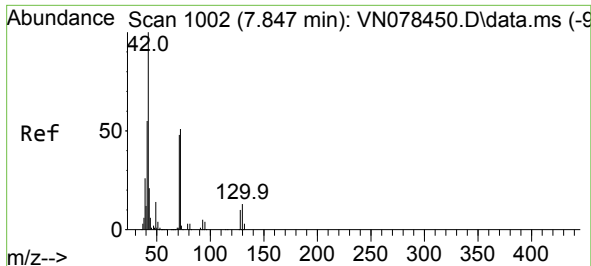
Tgt Ion:	84	Resp:	22427
Ion	Ratio	Lower	Upper
84	100		
49	94.0	79.7	119.5
51	33.9	25.2	37.8
86	56.5	53.3	79.9



#25
2-Butanone
Concen: 29.431 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.011 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

Tgt Ion:	43	Resp:	81429
Ion	Ratio	Lower	Upper
43	100		
72	29.1	30.2	45.2#

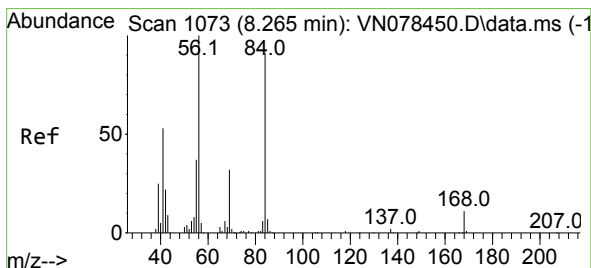
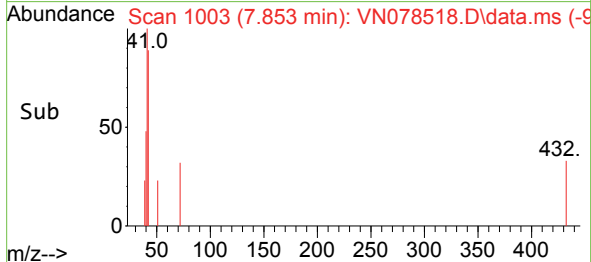
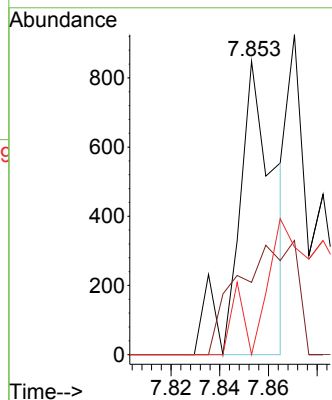
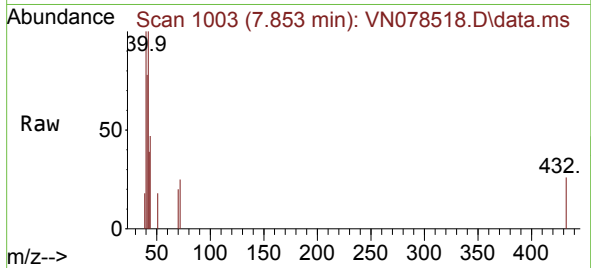




#29
Tetrahydrofuran
Concen: 0.482 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

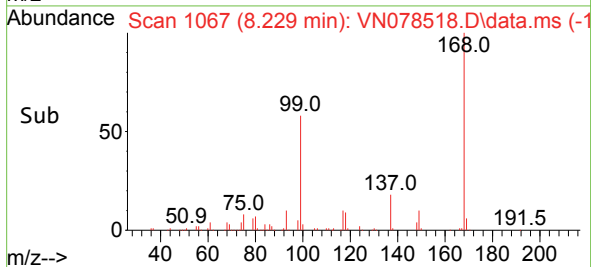
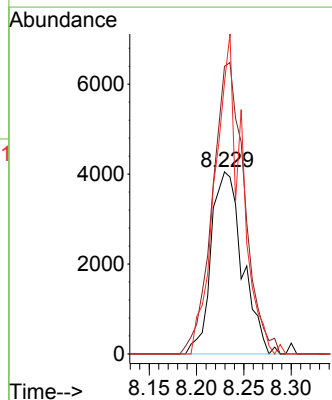
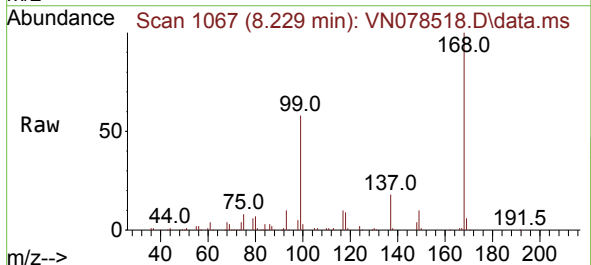
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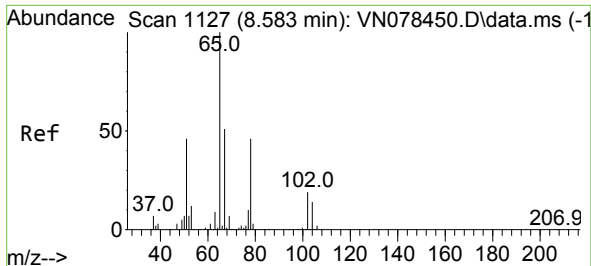
Tgt Ion: 42 Resp: 875
Ion Ratio Lower Upper
42 100
72 61.7 49.8 74.6
71 97.3 47.4 71.2#



#31
Cyclohexane
Concen: 1.226 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.036 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

Tgt Ion: 56 Resp: 9347
Ion Ratio Lower Upper
56 100
69 157.9 26.8 40.2#
84 155.9 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 50.379 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078518.D

Acq: 14 Jul 2023 13:33

Instrument :

MSVOA_N

ClientSampleId :

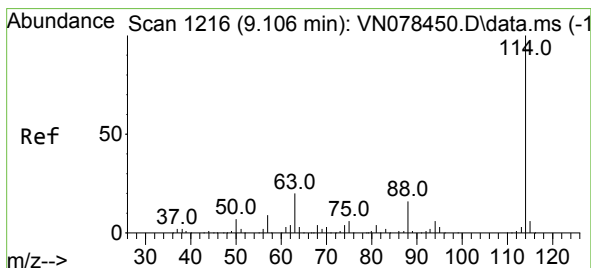
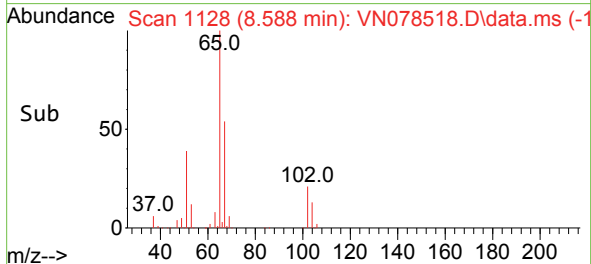
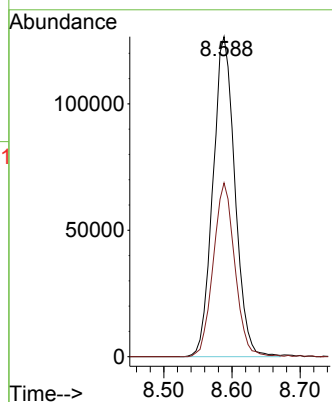
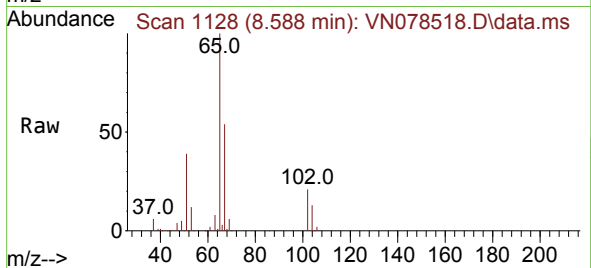
PB154166TB

Tgt Ion: 65 Resp: 284264

Ion Ratio Lower Upper

65 100

67 53.4 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078518.D

Acq: 14 Jul 2023 13:33

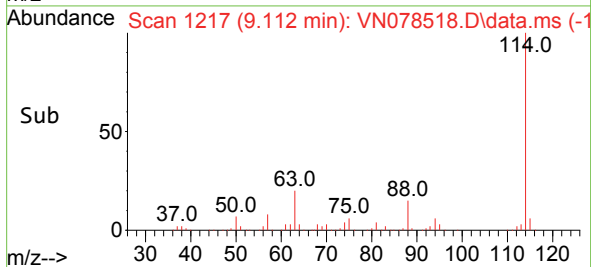
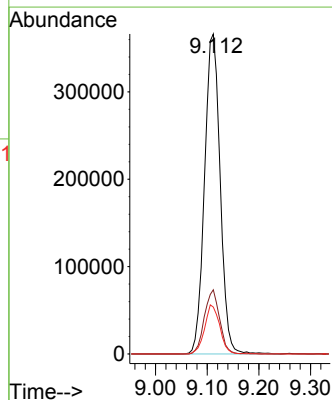
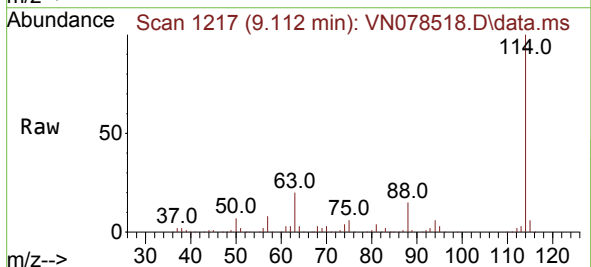
Tgt Ion: 114 Resp: 768141

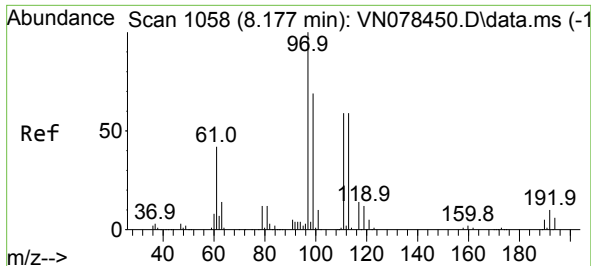
Ion Ratio Lower Upper

114 100

63 20.0 0.0 36.4

88 14.6 0.0 30.6

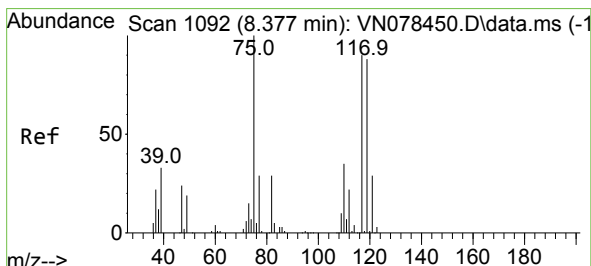
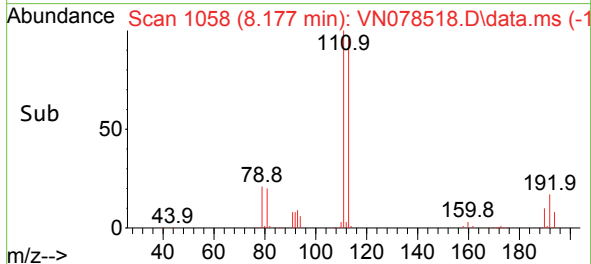
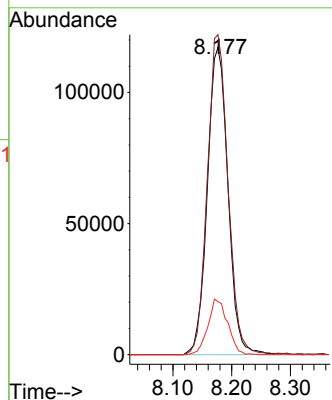
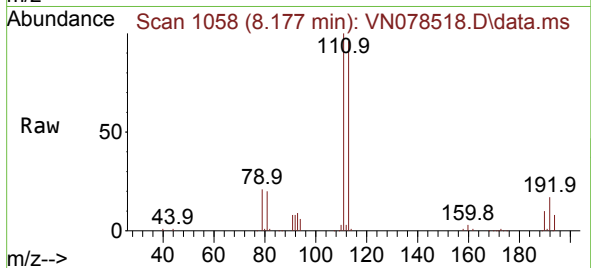




#35
Dibromofluoromethane
Concen: 54.728 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

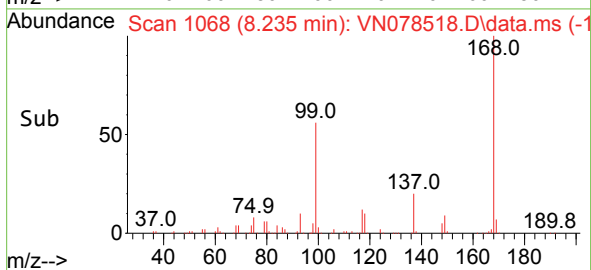
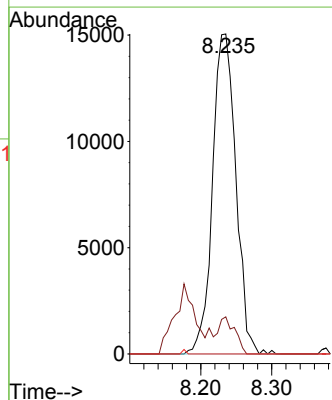
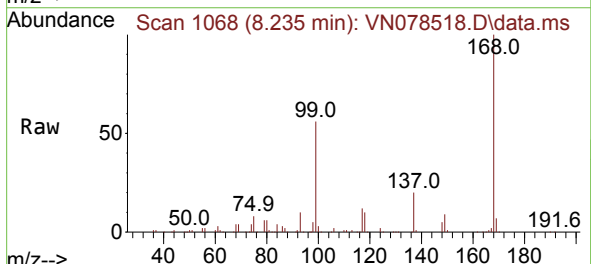
Instrument :
MSVOA_N
ClientSampleId :
PB154166TB

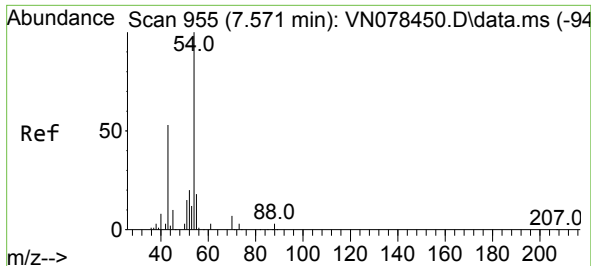
Tgt Ion:113 Resp: 285375
Ion Ratio Lower Upper
113 100
111 104.2 82.6 123.8
192 17.3 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.561 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.142 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

Tgt Ion: 75 Resp: 34339
Ion Ratio Lower Upper
75 100
110 8.1 19.1 57.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 3.450 ug/l

RT: 7.582 min Scan# 91

Delta R.T. 0.011 min

Lab File: VN078518.D

Acq: 14 Jul 2023 13:33

Instrument :

MSVOA_N

ClientSampleId :

PB154166TB

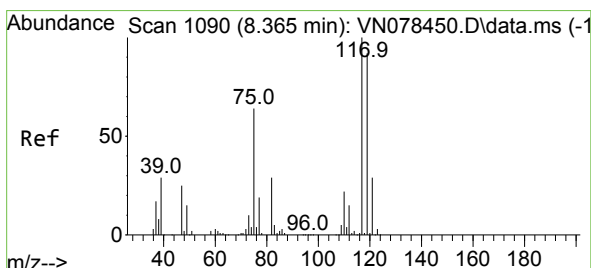
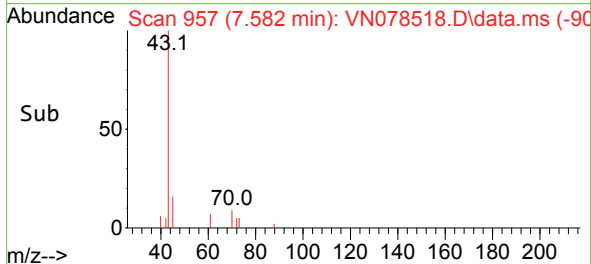
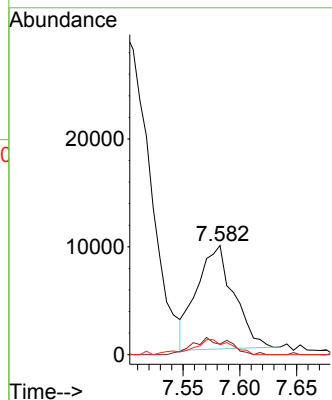
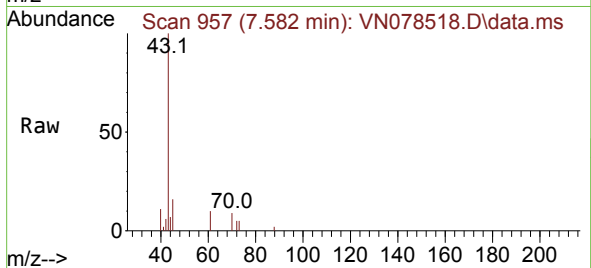
Tgt Ion: 43 Resp: 21656

Ion Ratio Lower Upper

43 100

61 16.1 13.2 19.8

70 15.3 11.3 16.9



#38

Carbon Tetrachloride

Concen: 5.599 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.130 min

Lab File: VN078518.D

Acq: 14 Jul 2023 13:33

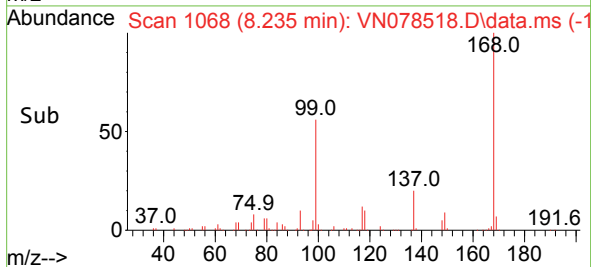
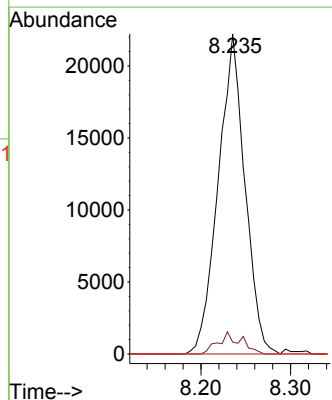
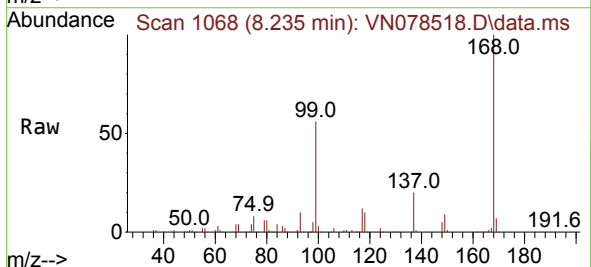
Tgt Ion: 117 Resp: 45816

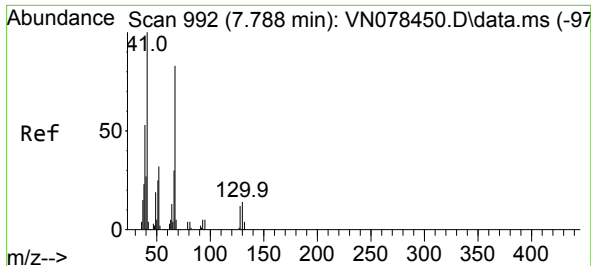
Ion Ratio Lower Upper

117 100

119 3.7 77.3 115.9#

121 0.0 23.3 34.9#

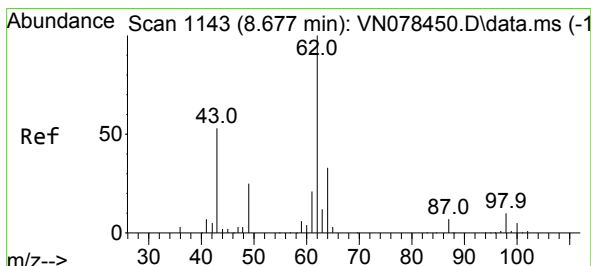
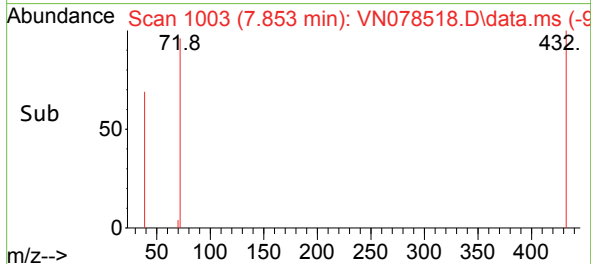
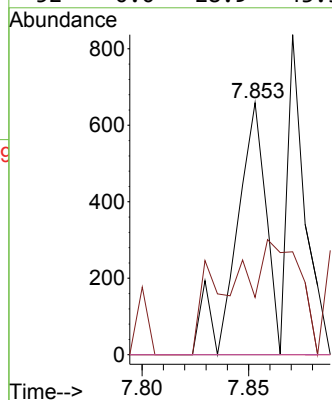
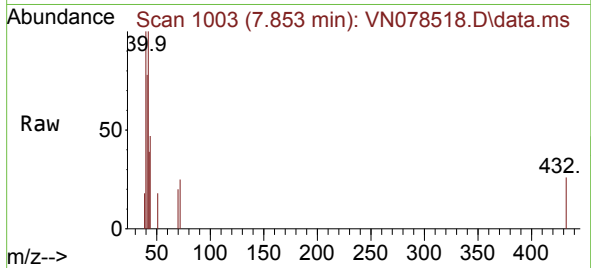




#41
Methacrylonitrile
Concen: 0.204 ug/l
RT: 7.853 min Scan# 1100
Delta R.T. 0.065 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

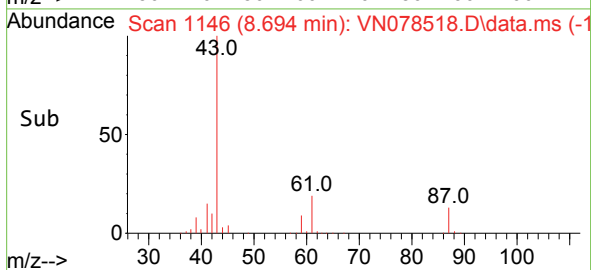
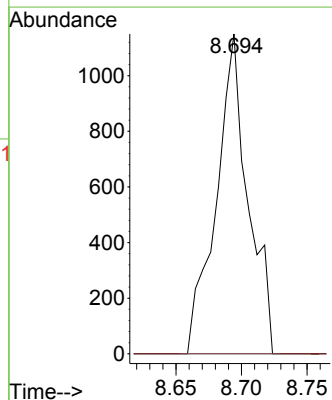
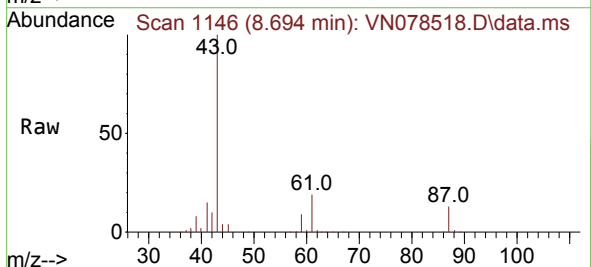
Instrument :
MSVOA_N
ClientSampleId :
PB154166TB

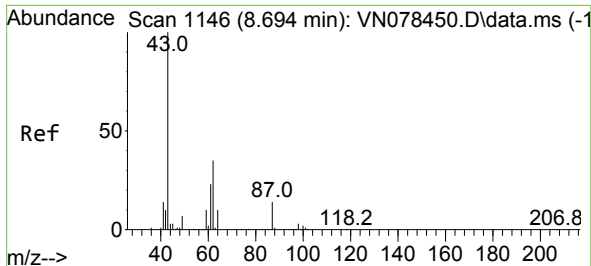
Tgt Ion: 41 Resp: 652
Ion Ratio Lower Upper
41 100
39 77.0 42.6 64.0#
67 0.0 77.5 116.3#
52 0.0 28.9 43.3#



#42
1,2-Dichloroethane
Concen: 0.257 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.017 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

Tgt Ion: 62 Resp: 1948
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

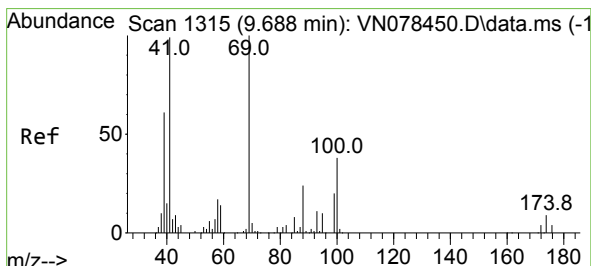
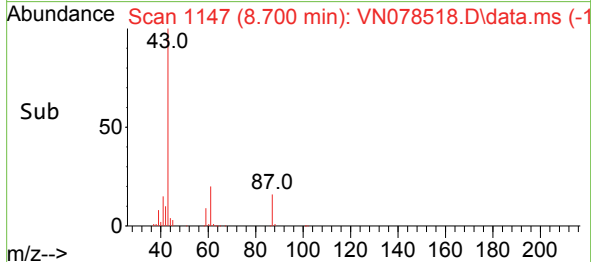
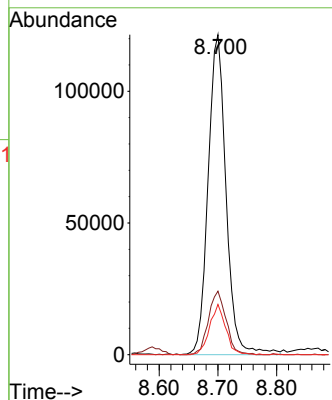
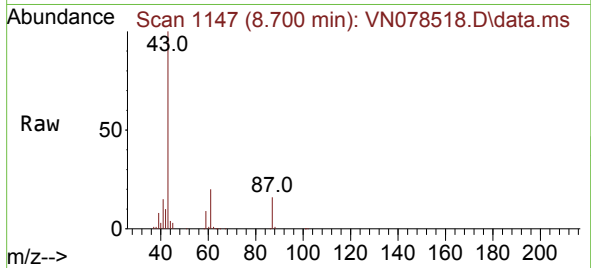




#43
Isopropyl Acetate
Concen: 24.926 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

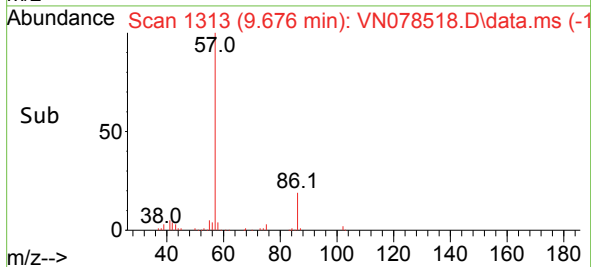
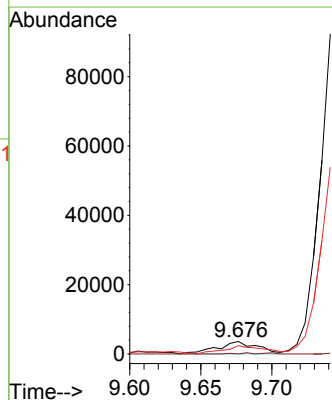
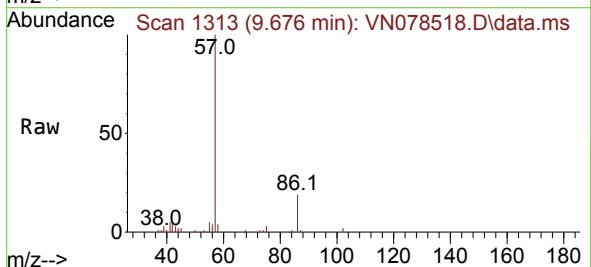
Instrument :
MSVOA_N
ClientSampleId :
PB154166TB

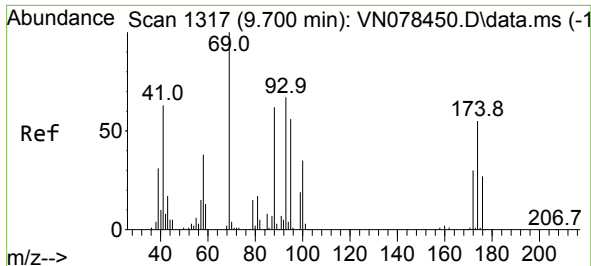
Tgt Ion: 43 Resp: 257568
Ion Ratio Lower Upper
43 100
61 19.6 24.7 37.1#
87 14.1 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.483 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.012 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

Tgt Ion: 41 Resp: 7100
Ion Ratio Lower Upper
41 100
69 2.7 90.4 135.6#
39 65.8 54.6 81.8





#49

1,4-Dioxane

Concen: 6.935 ug/l

RT: 9.759 min Scan# 11

Delta R.T. 0.059 min

Lab File: VN078518.D

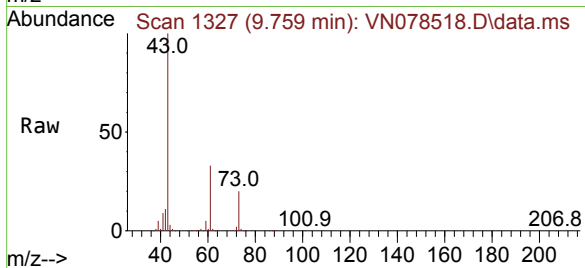
Acq: 14 Jul 2023 13:33

Instrument :

MSVOA_N

ClientSampleId :

PB154166TB



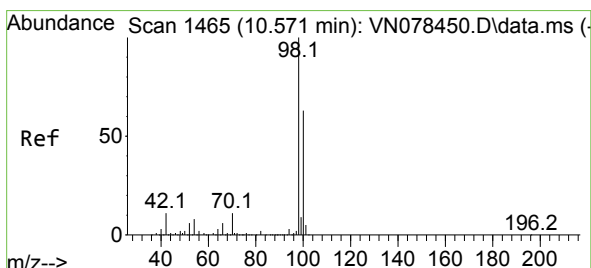
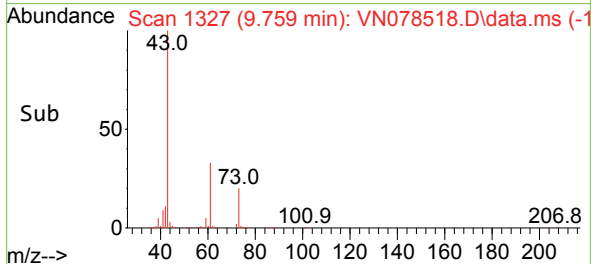
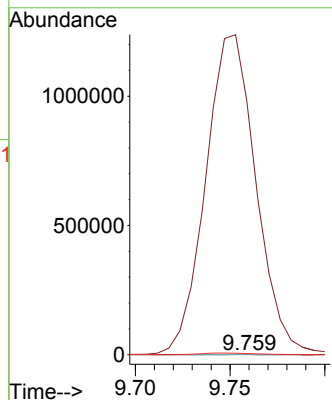
Tgt Ion: 88 Resp: 724

Ion Ratio Lower Upper

88 100

43 318306.1 17.0 25.6#

58 1710.2 47.0 70.4#



#50

Toluene-d8

Concen: 47.440 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.001 min

Lab File: VN078518.D

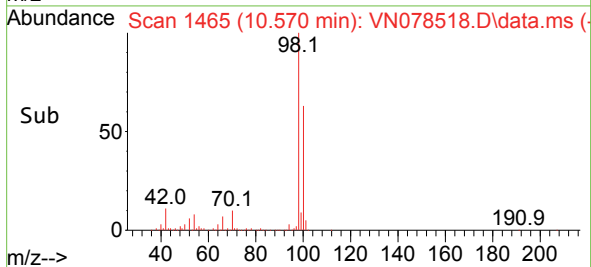
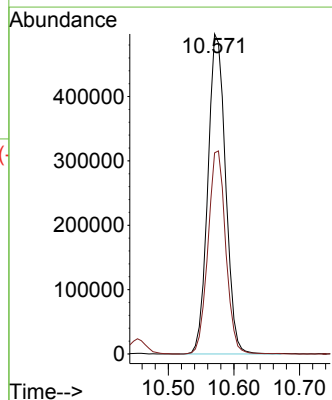
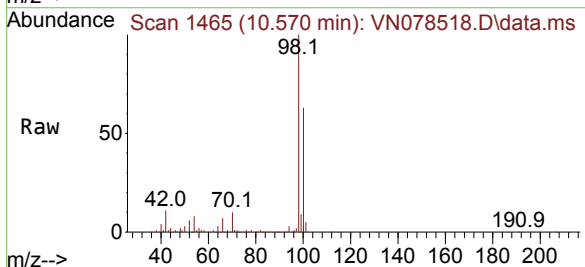
Acq: 14 Jul 2023 13:33

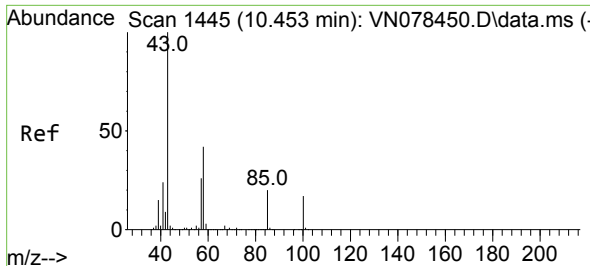
Tgt Ion: 98 Resp: 934500

Ion Ratio Lower Upper

98 100

100 63.4 52.0 78.0

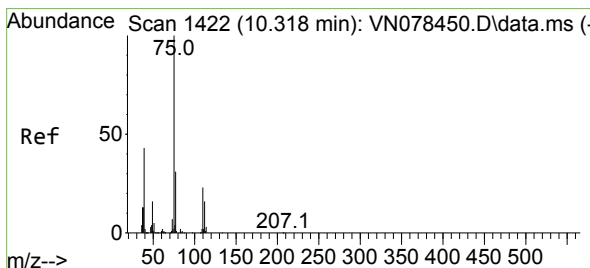
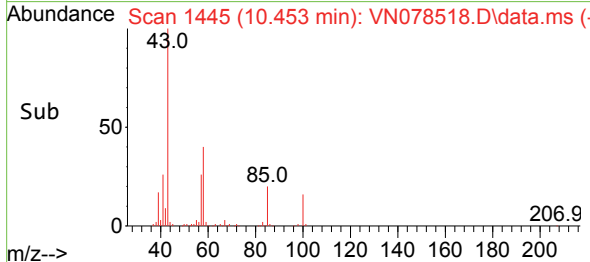
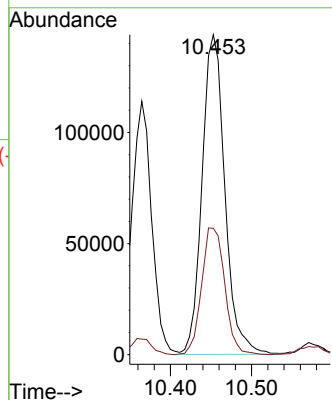
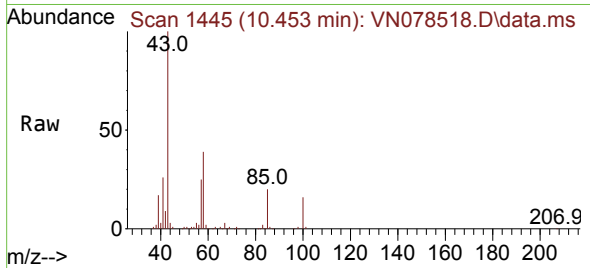




#51
4-Methyl-2-Pentanone
Concen: 45.612 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

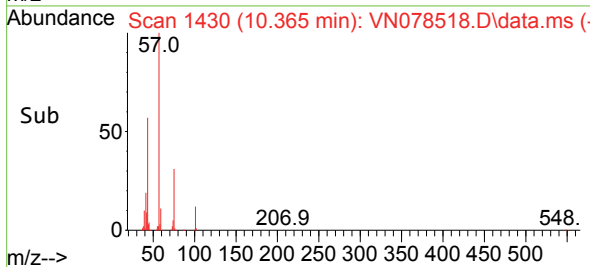
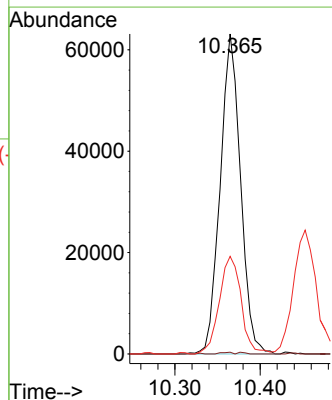
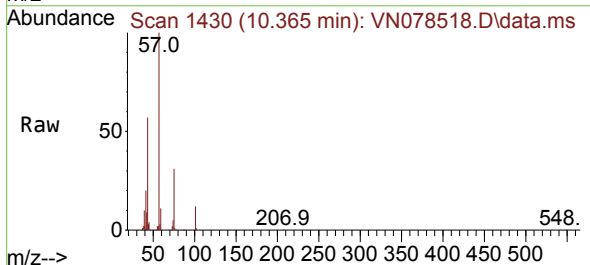
Instrument :
MSVOA_N
ClientSampleId :
PB154166TB

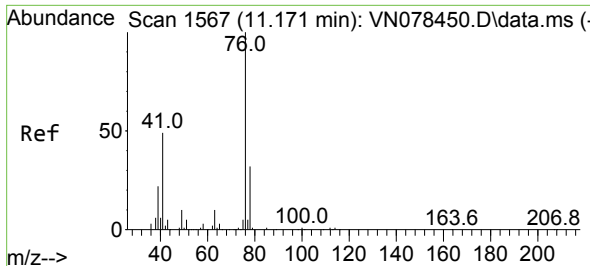
Tgt Ion: 43 Resp: 280345
Ion Ratio Lower Upper
43 100
58 40.3 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 12.034 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

Tgt Ion: 75 Resp: 104742
Ion Ratio Lower Upper
75 100
77 0.5 26.1 39.1#
39 30.0 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.515 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.035 min

Lab File: VN078518.D

Acq: 14 Jul 2023 13:33

Instrument :

MSVOA_N

ClientSampleId :

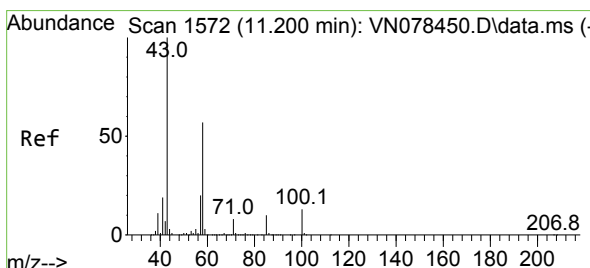
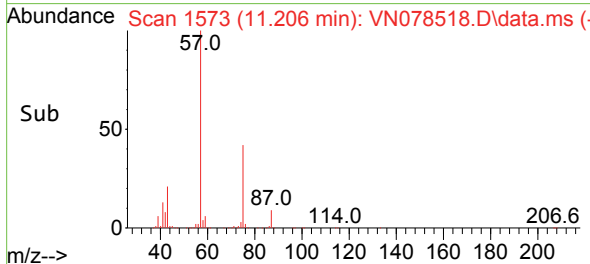
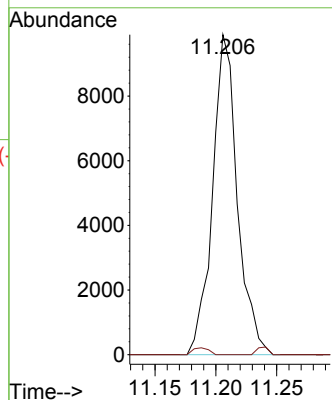
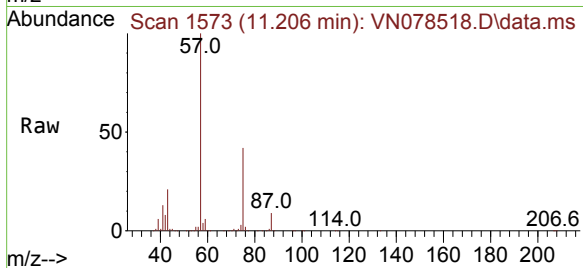
PB154166TB

Tgt Ion: 76 Resp: 14030

Ion Ratio Lower Upper

76 100

78 1.4 26.1 39.1#



#59

2-Hexanone

Concen: 35.392 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN078518.D

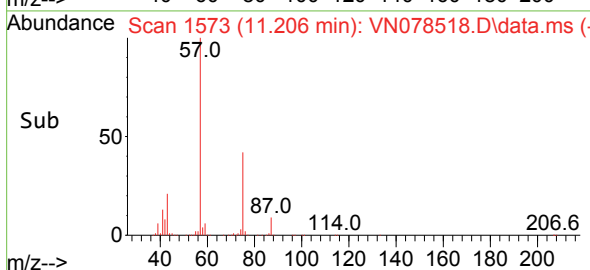
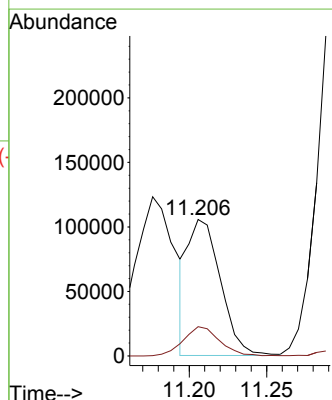
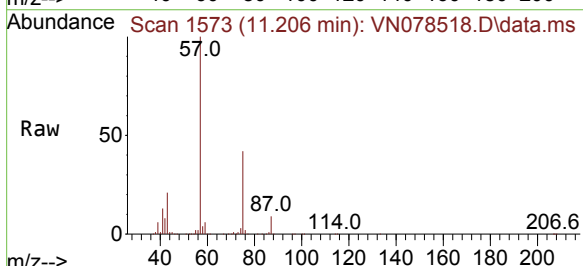
Acq: 14 Jul 2023 13:33

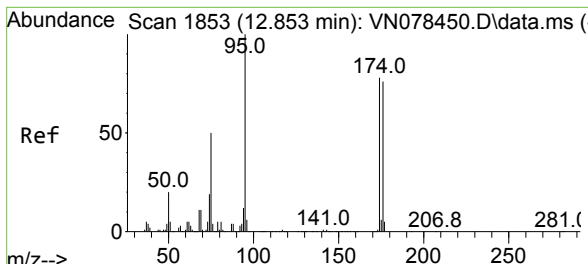
Tgt Ion: 43 Resp: 154604

Ion Ratio Lower Upper

43 100

58 24.0 31.7 95.1#

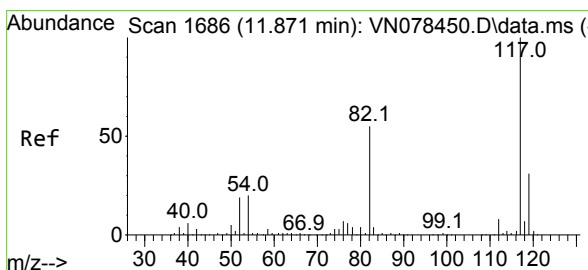
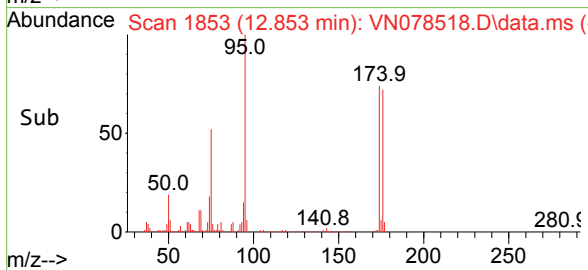
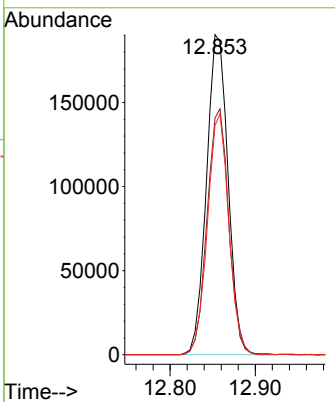
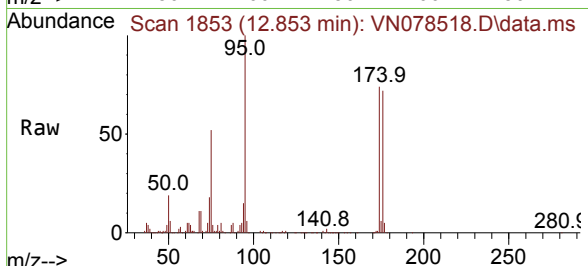




#62
 4-Bromofluorobenzene
 Concen: 54.988 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078518.D
 Acq: 14 Jul 2023 13:33

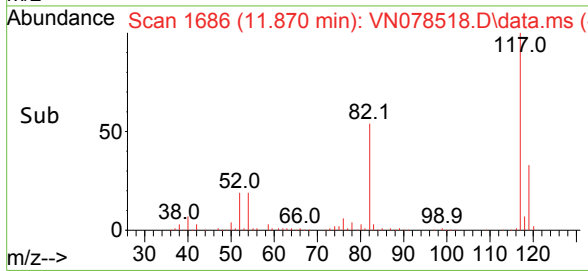
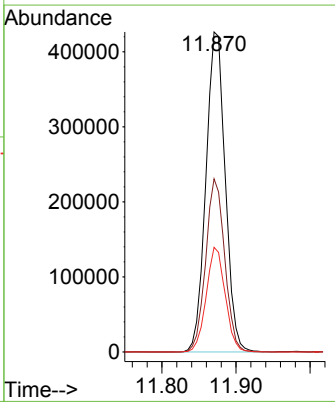
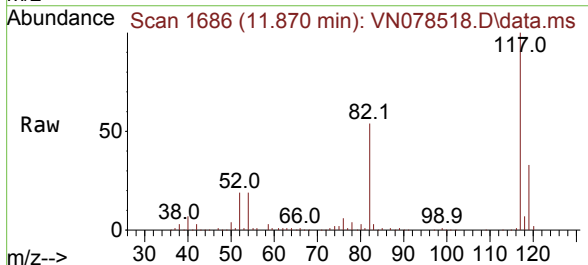
Instrument :
 MSVOA_N
 ClientSampleId :
 PB154166TB

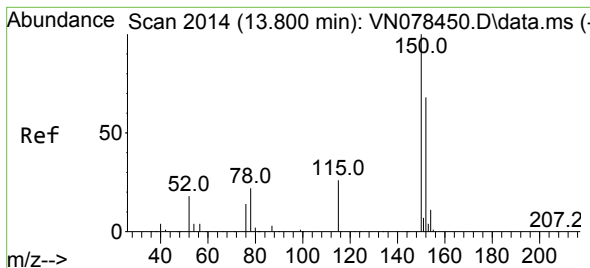
Tgt Ion:	95	Resp:	333640
Ion	Ratio	Lower	Upper
95	100		
174	77.6	0.0	143.8
176	74.2	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. -0.001 min
 Lab File: VN078518.D
 Acq: 14 Jul 2023 13:33

Tgt Ion:	117	Resp:	772021
Ion	Ratio	Lower	Upper
117	100		
82	54.1	44.0	66.0
119	32.7	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN078518.D

Acq: 14 Jul 2023 13:33

Instrument :

MSVOA_N

ClientSampleId :

PB154166TB

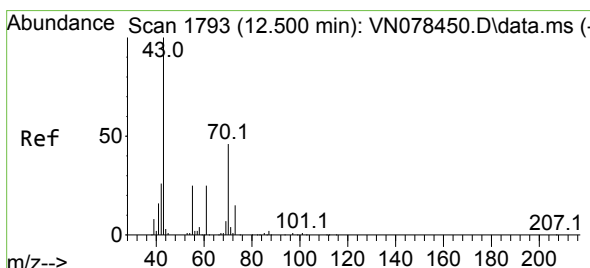
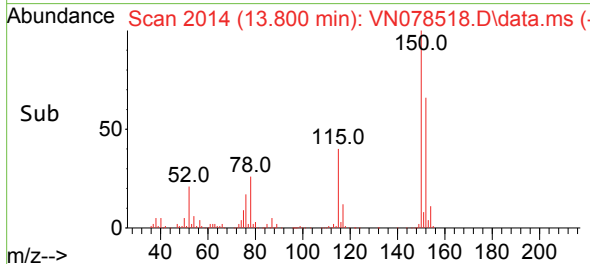
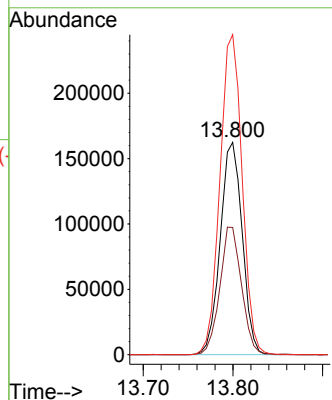
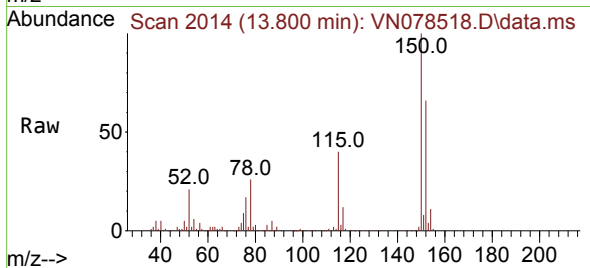
Tgt Ion:152 Resp: 276410

Ion Ratio Lower Upper

152 100

115 59.2 32.3 96.8

150 152.0 0.0 355.8



#74

N-ethyl acetate

Concen: 0.381 ug/l

RT: 12.594 min Scan# 1809

Delta R.T. 0.094 min

Lab File: VN078518.D

Acq: 14 Jul 2023 13:33

Tgt Ion: 43 Resp: 3409

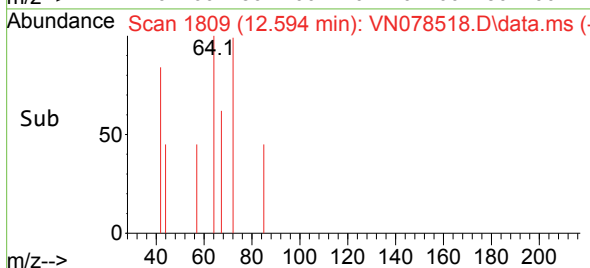
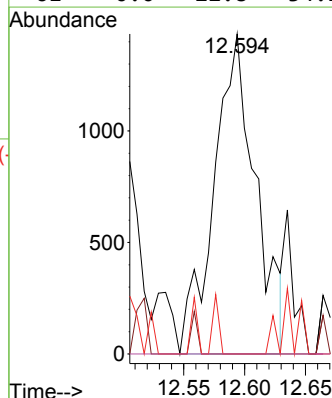
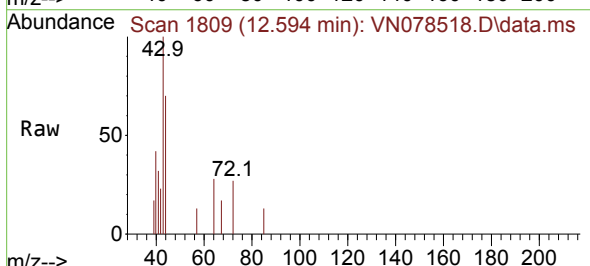
Ion Ratio Lower Upper

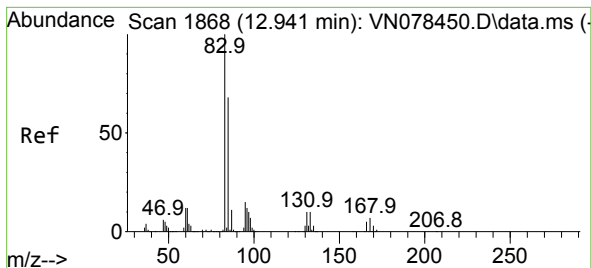
43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.935 min Scan# 1867

Delta R.T. -0.006 min

Lab File: VN078518.D

Acq: 14 Jul 2023 13:33

Instrument :

MSVOA_N

ClientSampleId :

PB154166TB

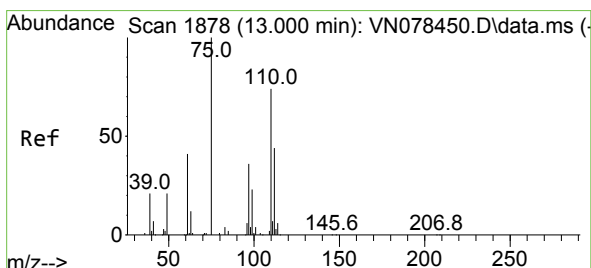
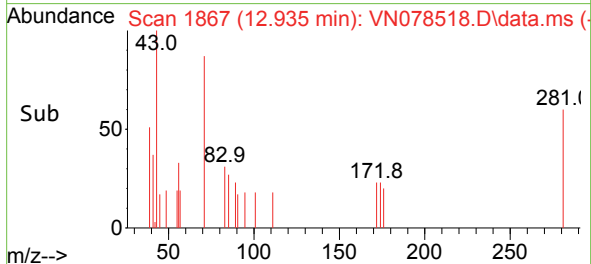
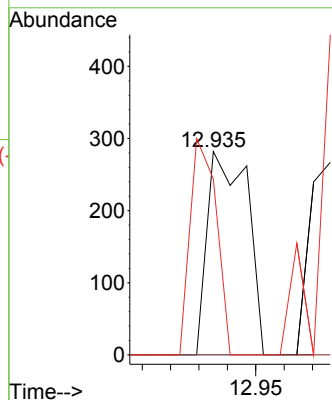
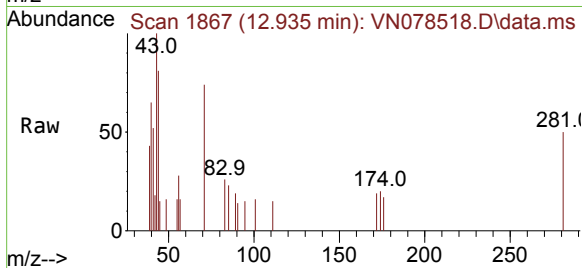
Tgt Ion: 83 Resp: 275

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 69.8 31.9 95.7



#76

1,2,3-Trichloropropane

Concen: 25.991 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN078518.D

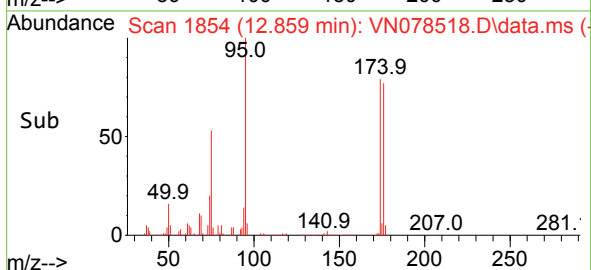
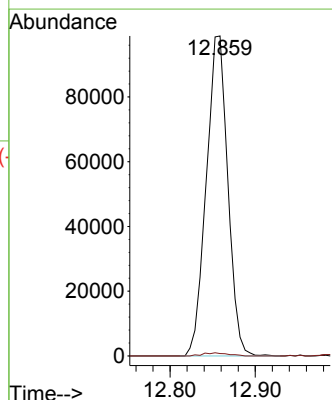
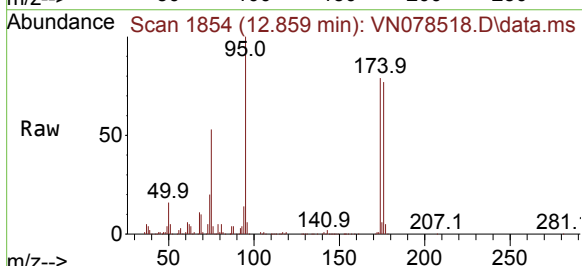
Acq: 14 Jul 2023 13:33

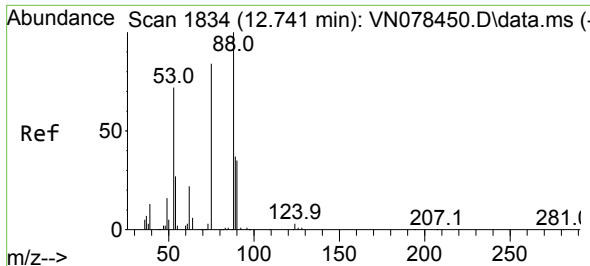
Tgt Ion: 75 Resp: 173652

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#

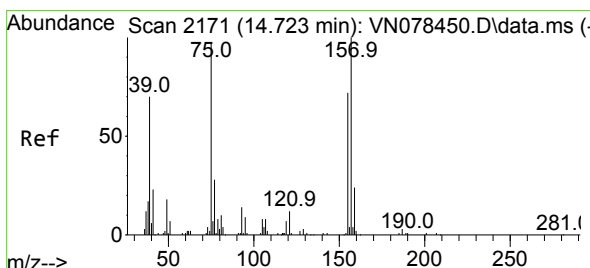
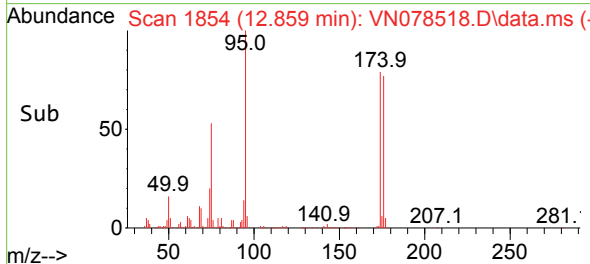
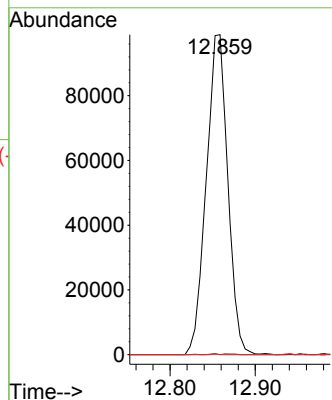
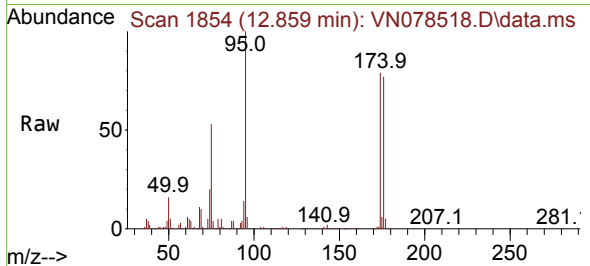




#81
trans-1,4-Dichloro-2-butene
Concen: 68.300 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

Instrument :
MSVOA_N
ClientSampleId :
PB154166TB

Tgt Ion: 75 Resp: 173652
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.717 min Scan# 2170
Delta R.T. -0.006 min
Lab File: VN078518.D
Acq: 14 Jul 2023 13:33

Tgt Ion: 75 Resp: 225
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#

