

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071323\
 Data File : VN078502.D
 Acq On : 13 Jul 2023 16:38
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Jul 14 01:35:55 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

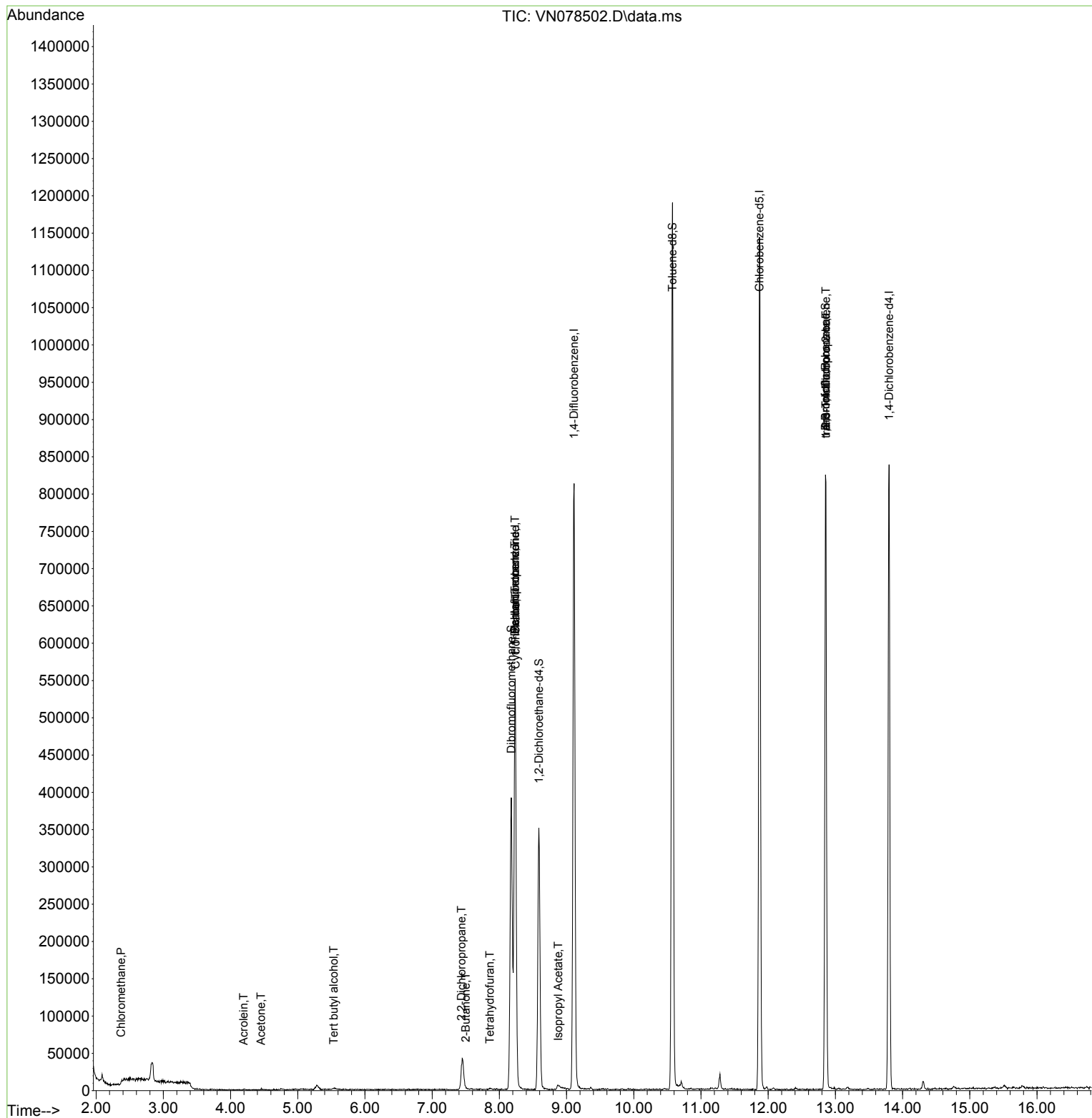
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	401955	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	733087	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	680981	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	227477	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	277888	51.569	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 103.140%	
35) Dibromofluoromethane	8.177	113	276374	55.537	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 111.080%	
50) Toluene-d8	10.576	98	873739	46.477	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 92.960%	
62) 4-Bromofluorobenzene	12.853	95	289594	50.011	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 100.020%	
Target Compounds						Qvalue
3) Chloromethane	2.371	50	1441	0.269	ug/l	98
5) Bromomethane	2.977	94	1443	Below Cal		99
6) Chloroethane	3.118	64	70	Below Cal	#	43
11) Tert butyl alcohol	5.536	59	2099	2.526	ug/l	# 72
13) Acrolein	4.195	56	560	0.685	ug/l	92
16) Acetone	4.453	43	853	0.508	ug/l	98
20) Methylene Chloride	5.283	84	4150	Below Cal	#	87
25) 2-Butanone	7.500	43	603	0.228	ug/l	# 37
26) 2,2-Dichloropropane	7.436	77	3144	0.440	ug/l	# 53
29) Tetrahydrofuran	7.859	42	1148	0.662	ug/l	# 37
31) Cyclohexane	8.241	56	9244	1.269	ug/l	# 60
36) 1,1-Dichloropropene	8.230	75	33011	4.594	ug/l	# 49
38) Carbon Tetrachloride	8.235	117	42661	5.463	ug/l	# 16
43) Isopropyl Acetate	8.877	43	5888	0.597	ug/l	# 49
71) Bromoform	12.853	173	1894	0.478	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.929	83	150	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.859	75	151028	27.468	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.859	75	151028	72.180	ug/l	# 15
90) Hexachloroethane	14.317	117	54	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.770	75	55	Below Cal	#	4

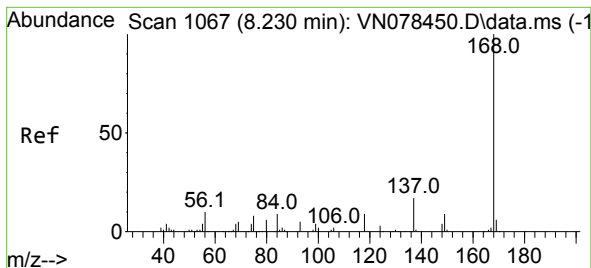
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 14 01:35:55 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. 0.005 min

Lab File: VN078502.D

Acq: 13 Jul 2023 16:38

Instrument :

MSVOA_N

ClientSampleId :

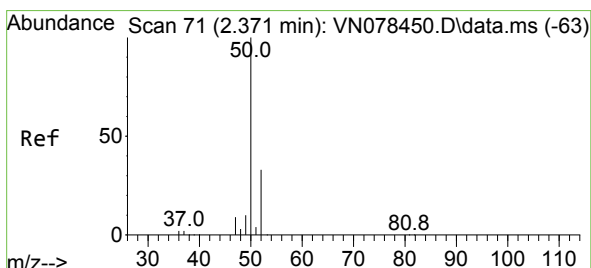
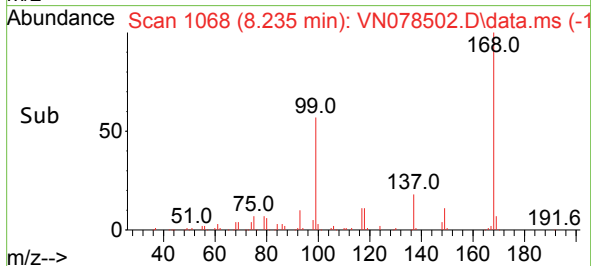
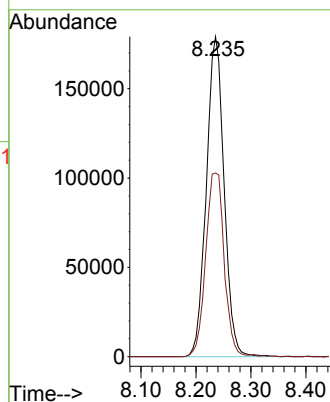
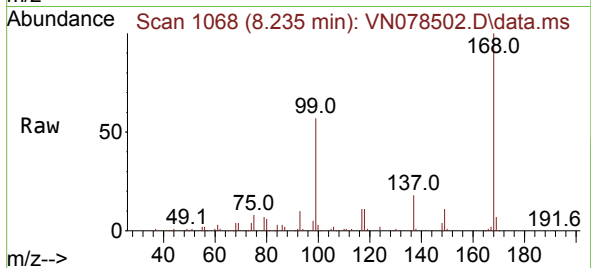
IBLK

Tgt Ion:168 Resp: 401955

Ion Ratio Lower Upper

168 100

99 57.4 53.0 79.6



#3

Chloromethane

Concen: 0.269 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078502.D

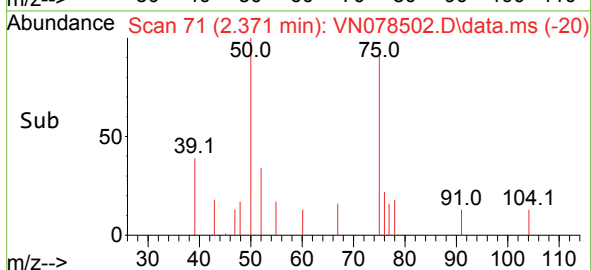
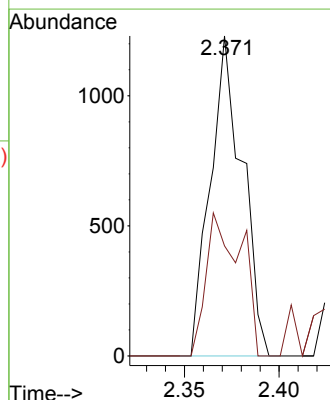
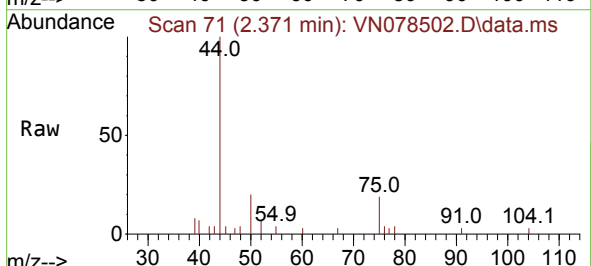
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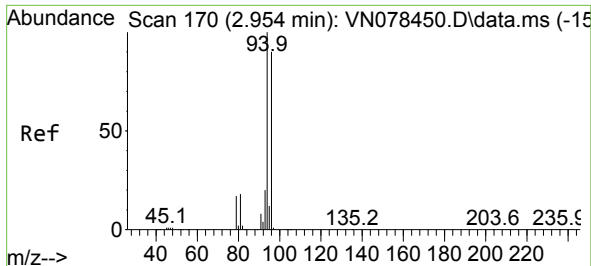
Tgt Ion: 50 Resp: 1441

Ion Ratio Lower Upper

50 100

52 34.4 26.5 39.7

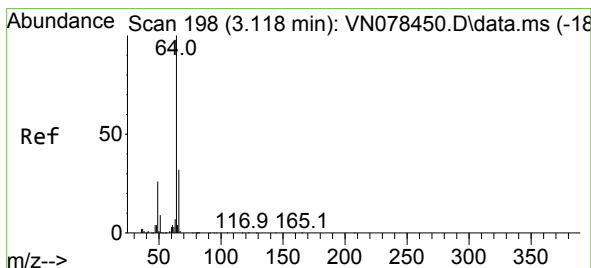
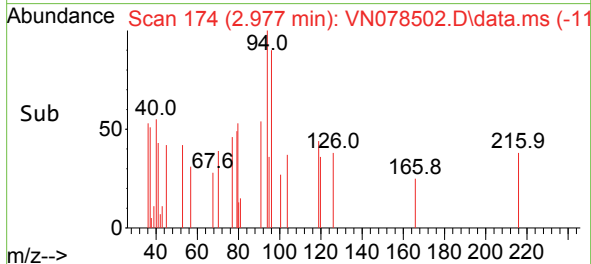
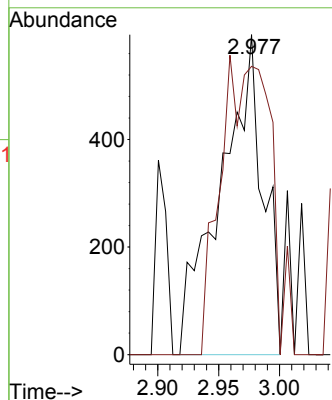
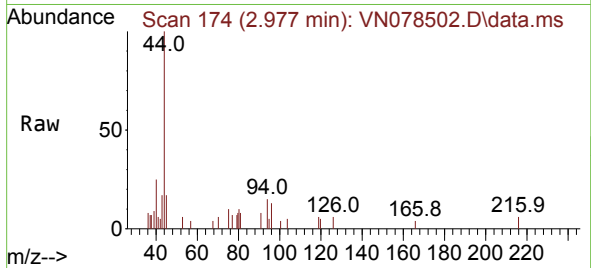




#5
Bromomethane
Concen: Below Cal
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN078502.D
Acq: 13 Jul 2023 16:38

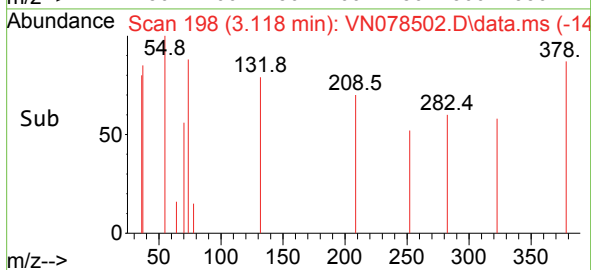
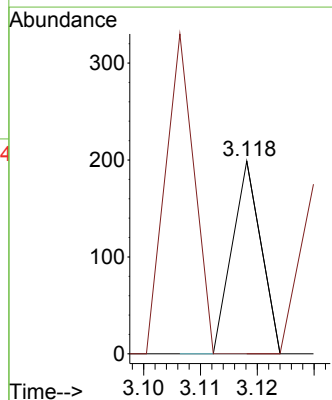
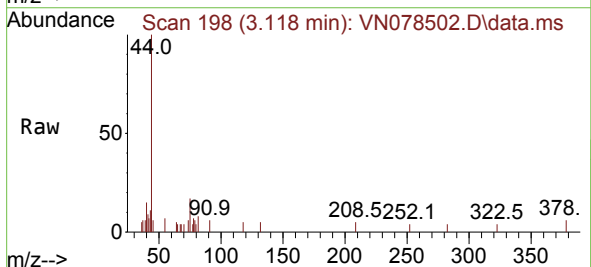
Instrument :
MSVOA_N
ClientSampleId :
IBLK

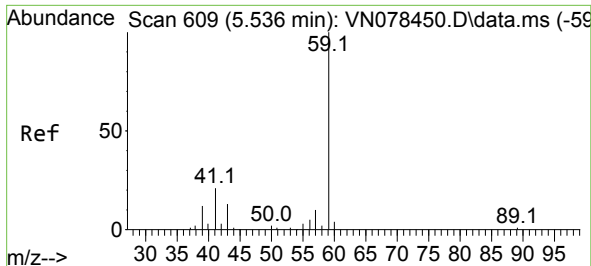
Tgt Ion: 94 Resp: 1443
Ion Ratio Lower Upper
94 100
96 90.1 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN078502.D
Acq: 13 Jul 2023 16:38

Tgt Ion: 64 Resp: 70
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

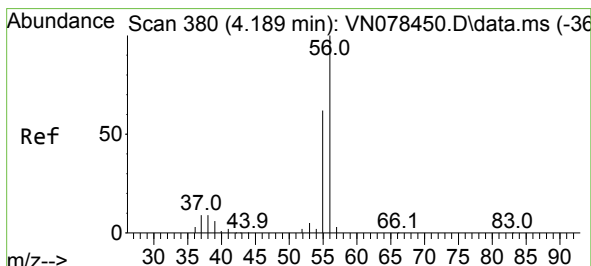
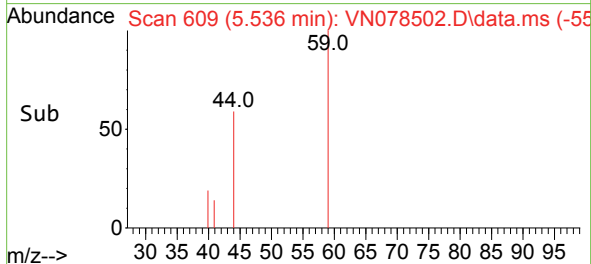
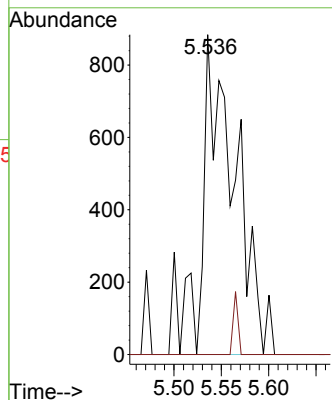
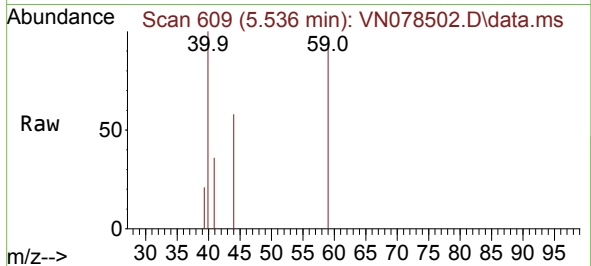




#11
Tert butyl alcohol
Concen: 2.526 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.000 min
Lab File: VN078502.D
Acq: 13 Jul 2023 16:38

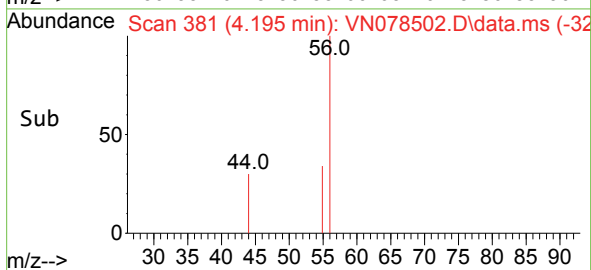
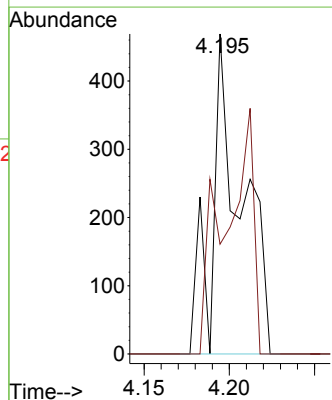
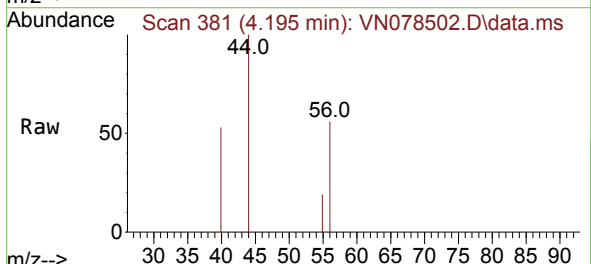
Instrument :
MSVOA_N
ClientSampleId :
IBLK

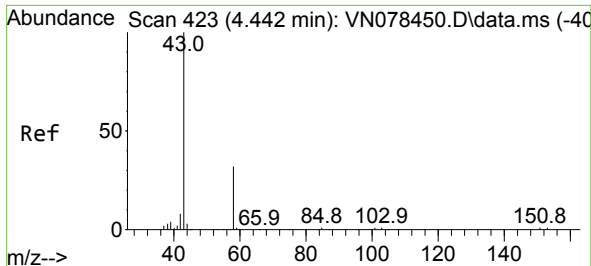
Tgt Ion: 59 Resp: 2099
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.685 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.006 min
Lab File: VN078502.D
Acq: 13 Jul 2023 16:38

Tgt Ion: 56 Resp: 560
Ion Ratio Lower Upper
56 100
55 74.8 54.5 81.7





#16

Acetone

Concen: 0.508 ug/l

RT: 4.453 min Scan# 41

Delta R.T. 0.011 min

Lab File: VN078502.D

Acq: 13 Jul 2023 16:38

Instrument :

MSVOA_N

ClientSampleId :

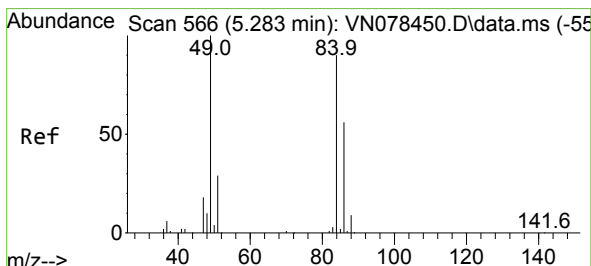
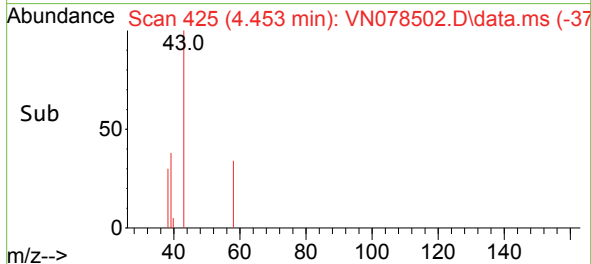
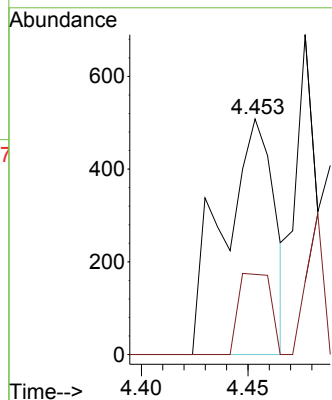
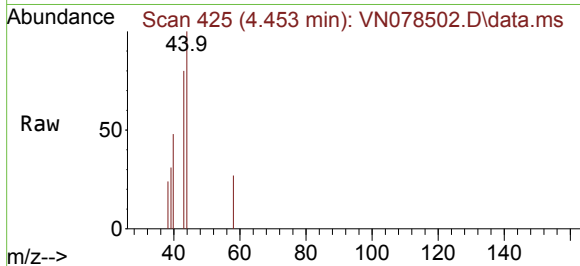
IBLK

Tgt Ion: 43 Resp: 853

Ion Ratio Lower Upper

43 100

58 34.1 28.0 42.0



#20

Methylene Chloride

Concen: Below Cal

RT: 5.283 min Scan# 566

Delta R.T. -0.000 min

Lab File: VN078502.D

Acq: 13 Jul 2023 16:38

Tgt Ion: 84 Resp: 4150

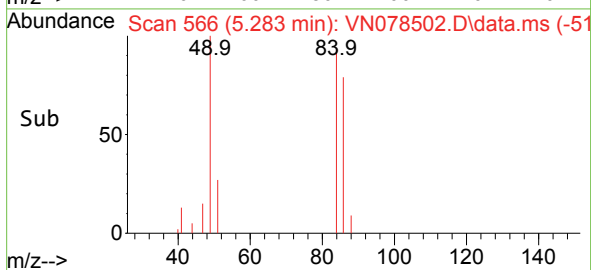
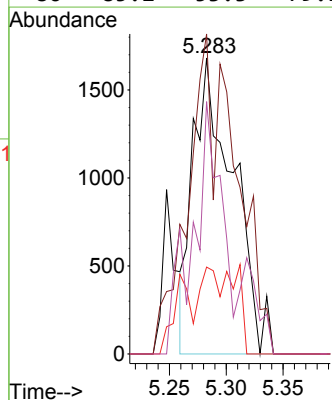
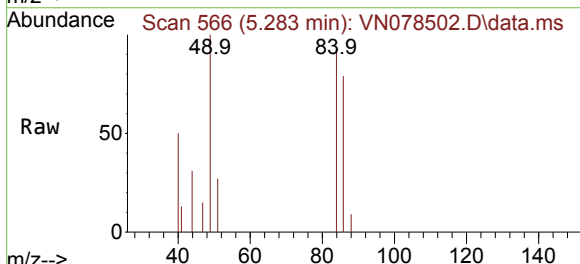
Ion Ratio Lower Upper

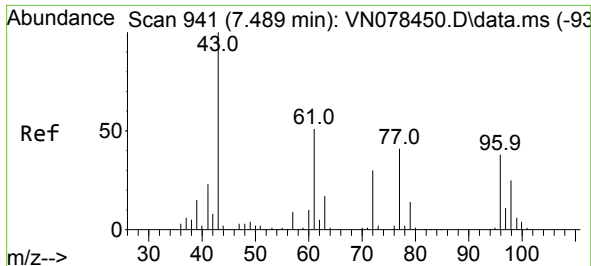
84 100

49 108.1 79.7 119.5

51 29.3 25.2 37.8

86 85.2 53.3 79.9#

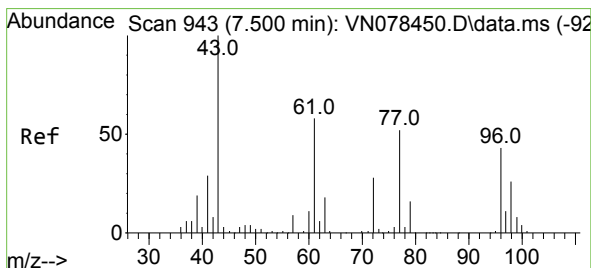
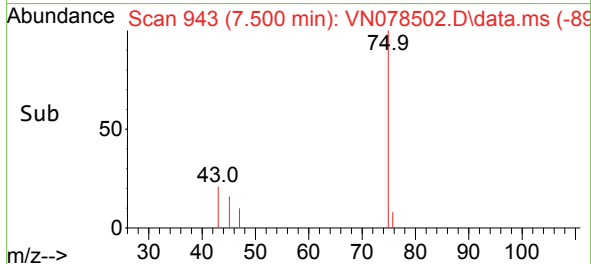
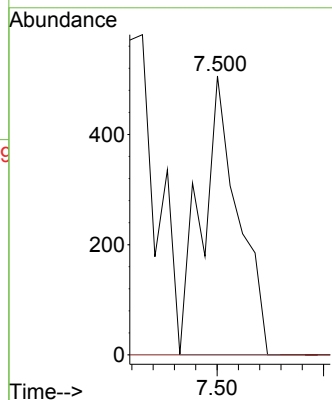
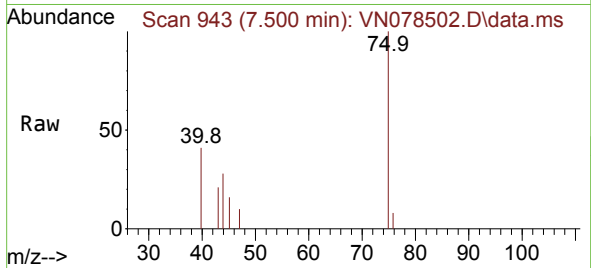




#25
2-Butanone
Concen: 0.228 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.011 min
Lab File: VN078502.D
Acq: 13 Jul 2023 16:38

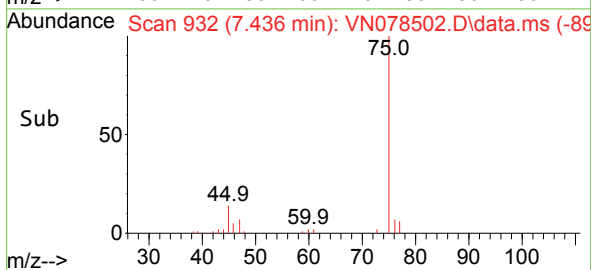
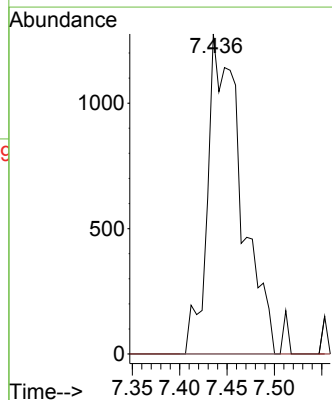
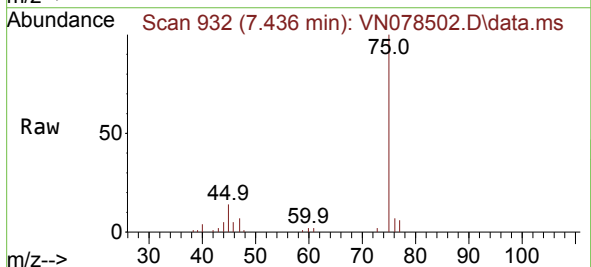
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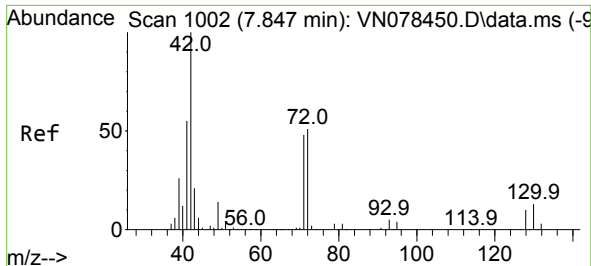
Tgt Ion: 43 Resp: 603
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#26
2,2-Dichloropropane
Concen: 0.440 ug/l
RT: 7.436 min Scan# 932
Delta R.T. -0.064 min
Lab File: VN078502.D
Acq: 13 Jul 2023 16:38

Tgt Ion: 77 Resp: 3144
Ion Ratio Lower Upper
77 100
97 0.0 11.2 33.6#





#29

Tetrahydrofuran

Concen: 0.662 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.012 min

Lab File: VN078502.D

Acq: 13 Jul 2023 16:38

Instrument :

MSVOA_N

ClientSampleId :

IBLK

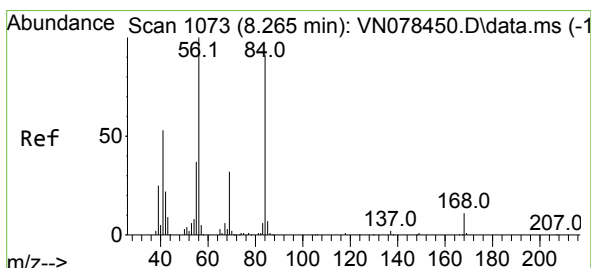
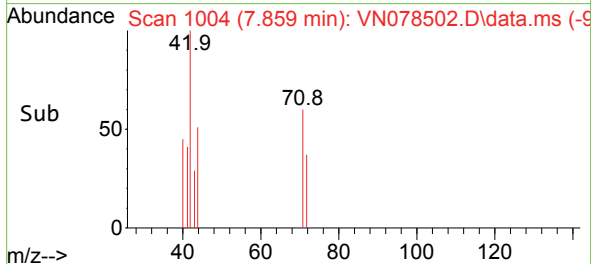
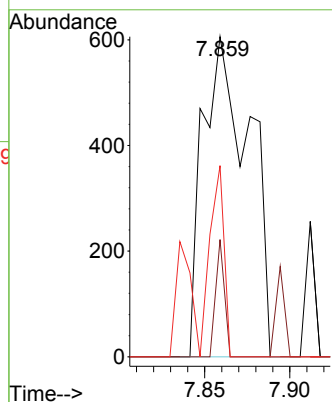
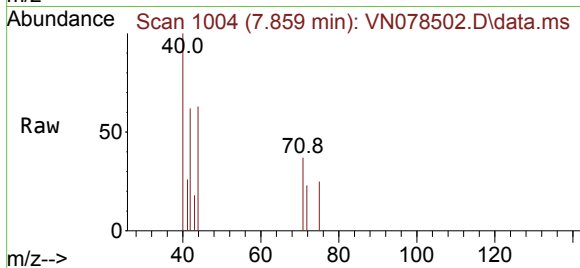
Tgt Ion: 42 Resp: 1148

Ion Ratio Lower Upper

42 100

72 6.8 49.8 74.6#

71 18.3 47.4 71.2#



#31

Cyclohexane

Concen: 1.269 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.024 min

Lab File: VN078502.D

Acq: 13 Jul 2023 16:38

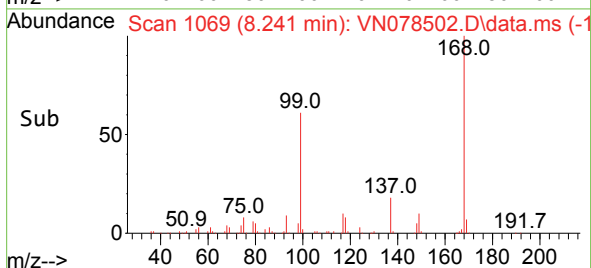
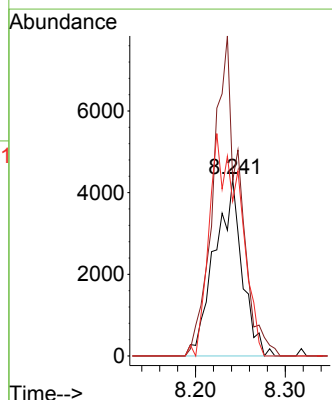
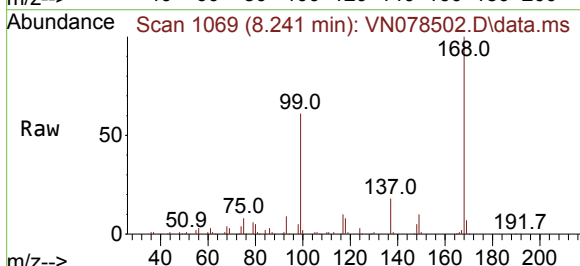
Tgt Ion: 56 Resp: 9244

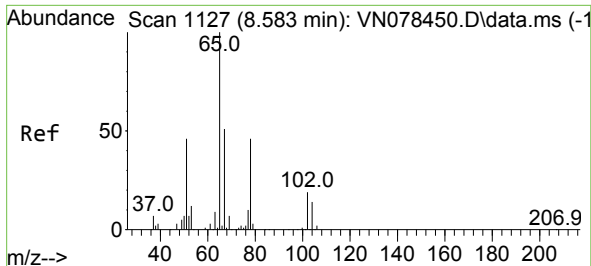
Ion Ratio Lower Upper

56 100

69 99.1 26.8 40.2#

84 87.4 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 51.569 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078502.D

Acq: 13 Jul 2023 16:38

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ClientSampleId :

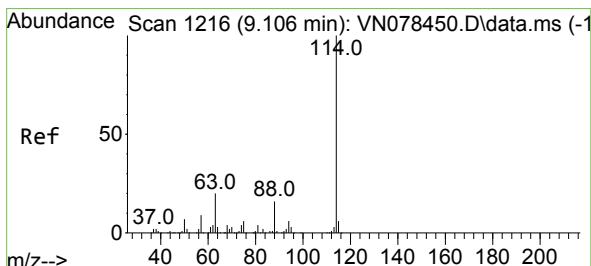
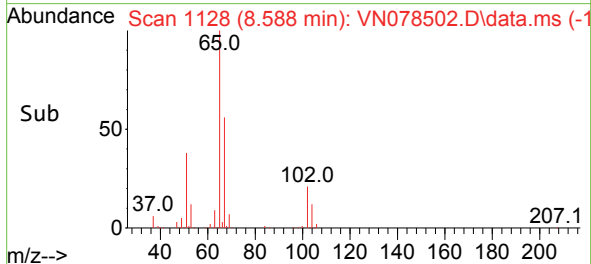
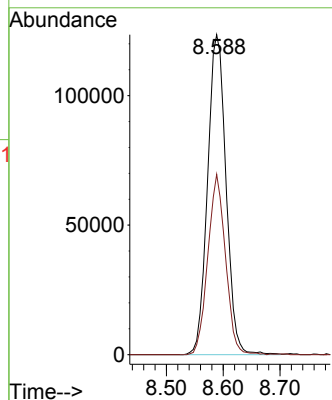
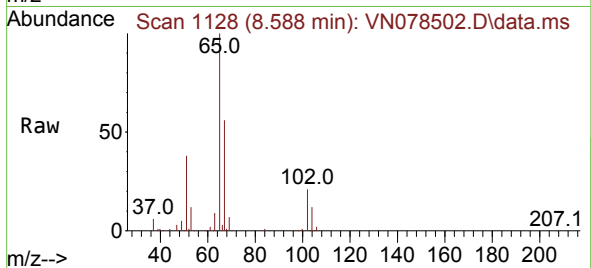
IBLK

Tgt Ion: 65 Resp: 277888

Ion Ratio Lower Upper

65 100

67 54.0 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: VN078502.D

Acq: 13 Jul 2023 16:38

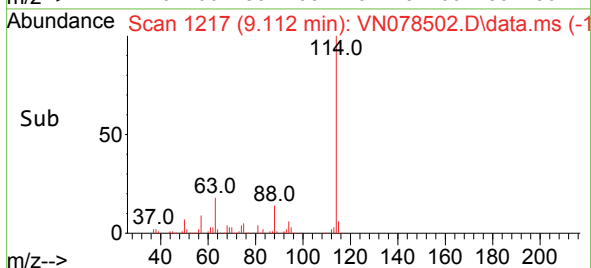
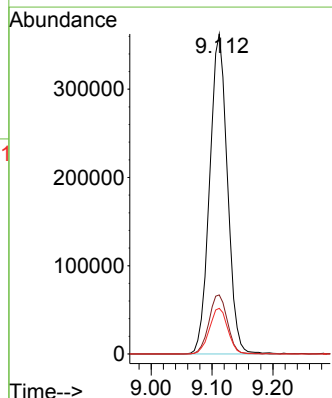
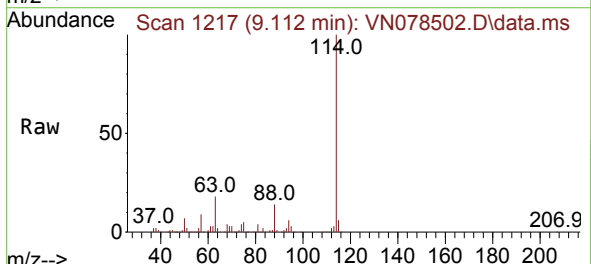
Tgt Ion: 114 Resp: 733087

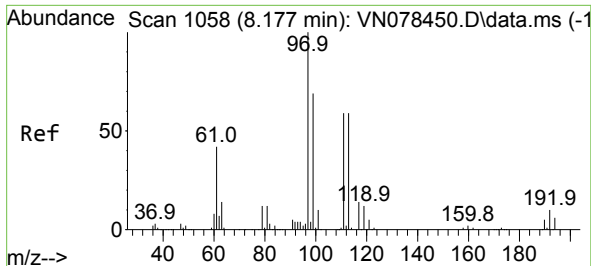
Ion Ratio Lower Upper

114 100

63 18.4 0.0 36.4

88 14.3 0.0 30.6

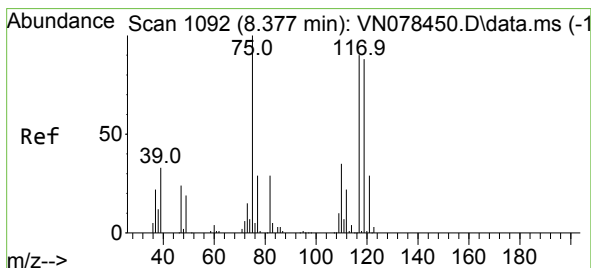
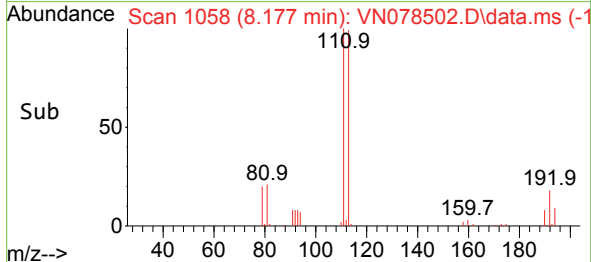
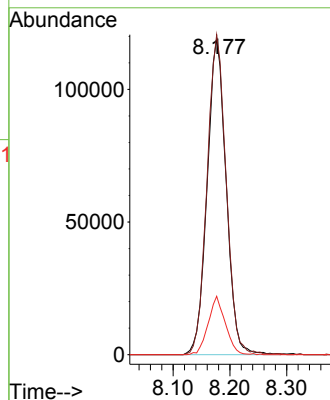
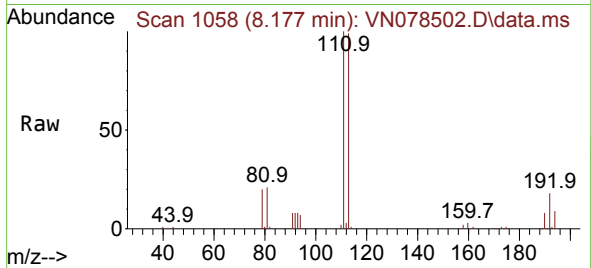




#35
 Dibromofluoromethane
 Concen: 55.537 ug/l
 RT: 8.177 min Scan# 1058
 Delta R.T. -0.000 min
 Lab File: VN078502.D
 Acq: 13 Jul 2023 16:38

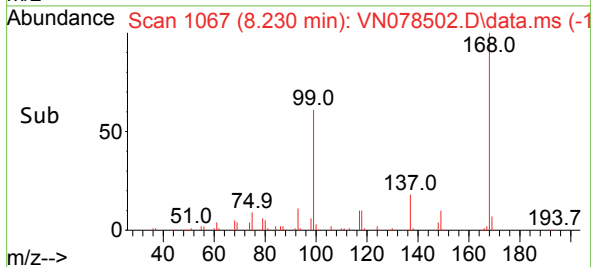
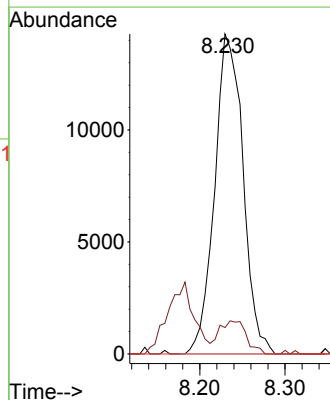
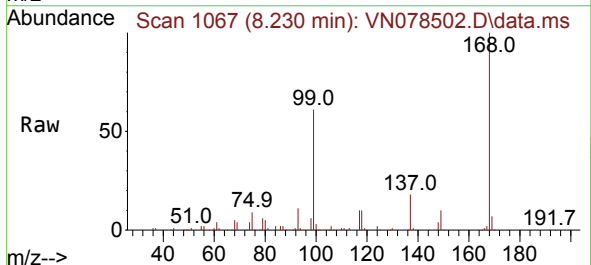
Instrument : MSVOA_N
 ClientSampleId : IBLK

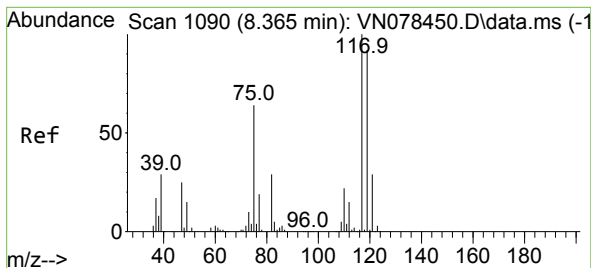
Tgt Ion:113 Resp: 276374
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.6 123.8
 192 16.8 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 4.594 ug/l
 RT: 8.230 min Scan# 1067
 Delta R.T. -0.147 min
 Lab File: VN078502.D
 Acq: 13 Jul 2023 16:38

Tgt Ion: 75 Resp: 33011
 Ion Ratio Lower Upper
 75 100
 110 10.0 19.1 57.3#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.463 ug/l

RT: 8.235 min Scan# 1107

Delta R.T. -0.130 min

Lab File: VN078502.D

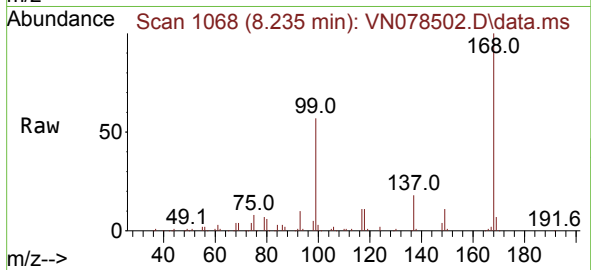
Acq: 13 Jul 2023 16:38

Instrument :

MSVOA_N

ClientSampleId :

IBLK



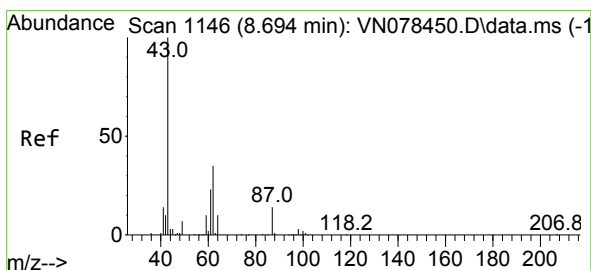
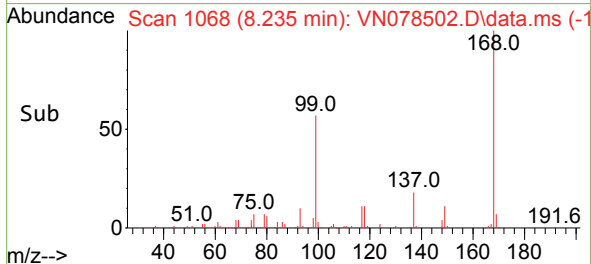
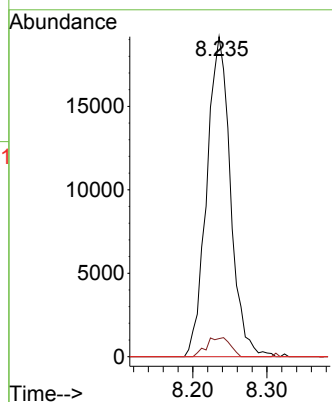
Tgt Ion:117 Resp: 42661

Ion Ratio Lower Upper

117 100

119 5.7 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 0.597 ug/l

RT: 8.877 min Scan# 1177

Delta R.T. 0.183 min

Lab File: VN078502.D

Acq: 13 Jul 2023 16:38

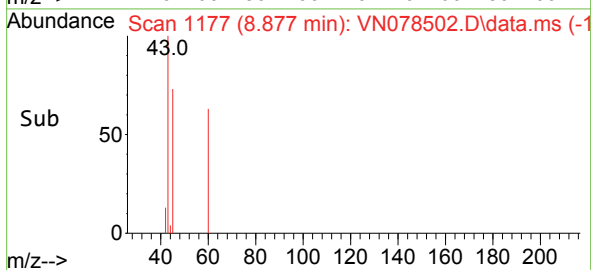
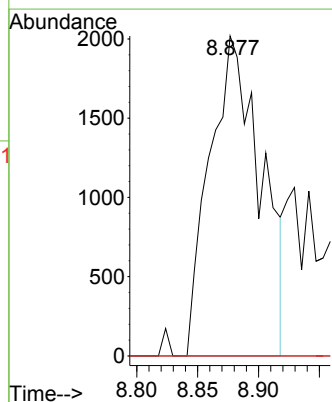
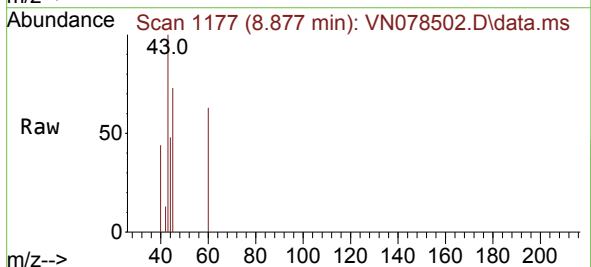
Tgt Ion: 43 Resp: 5888

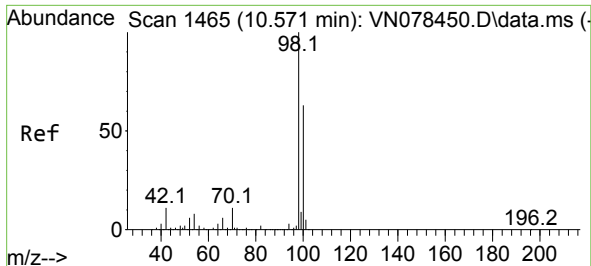
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#

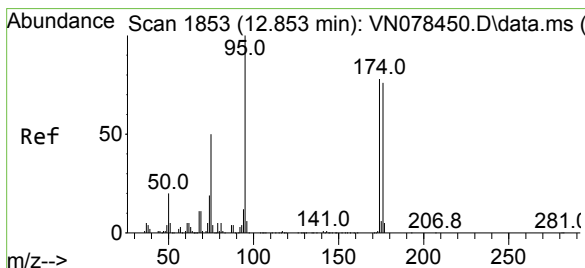
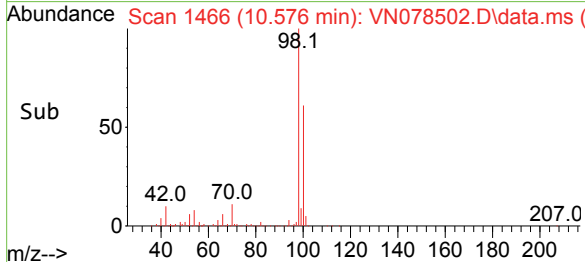
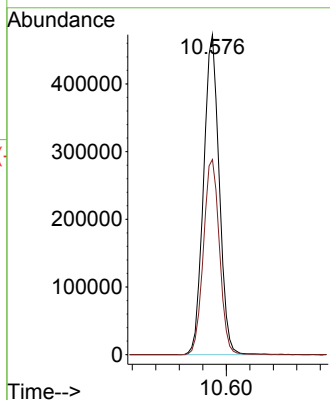
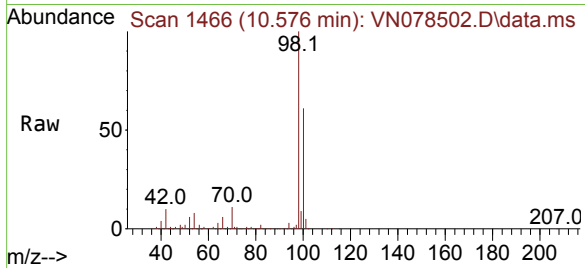




#50
Toluene-d8
Concen: 46.477 ug/l
RT: 10.576 min Scan# 1465
Delta R.T. 0.005 min
Lab File: VN078502.D
Acq: 13 Jul 2023 16:38

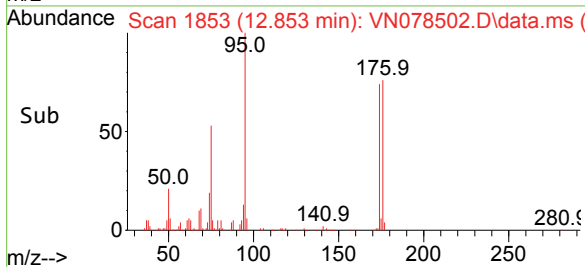
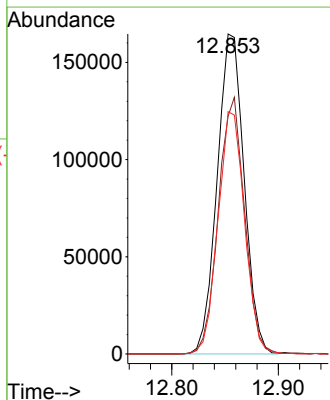
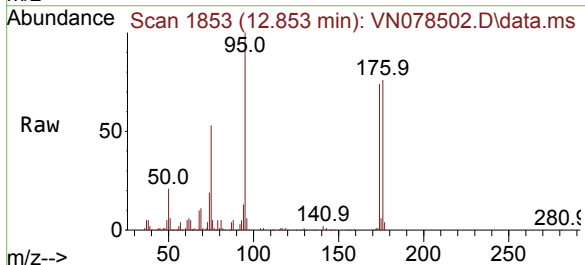
Instrument :
MSVOA_N
ClientSampleId :
IBLK

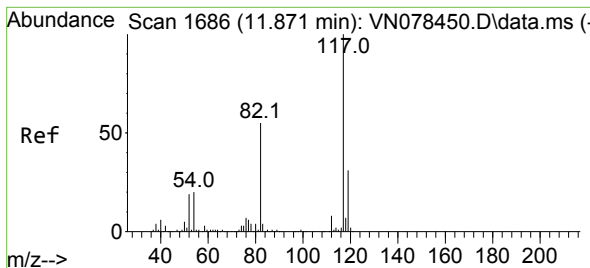
Tgt Ion: 98 Resp: 873739
Ion Ratio Lower Upper
98 100
100 62.4 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 50.011 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078502.D
Acq: 13 Jul 2023 16:38

Tgt Ion: 95 Resp: 289594
Ion Ratio Lower Upper
95 100
174 78.2 0.0 143.8
176 74.6 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN078502.D

Acq: 13 Jul 2023 16:38

Instrument :

MSVOA_N

ClientSampleId :

IBLK

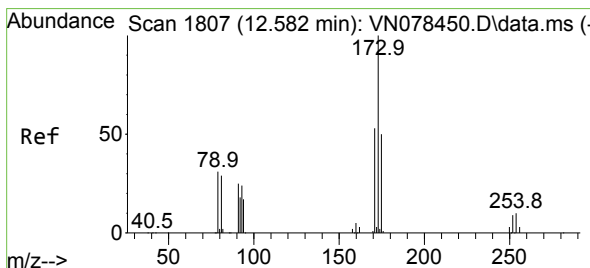
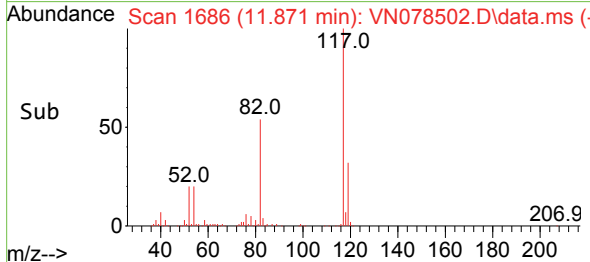
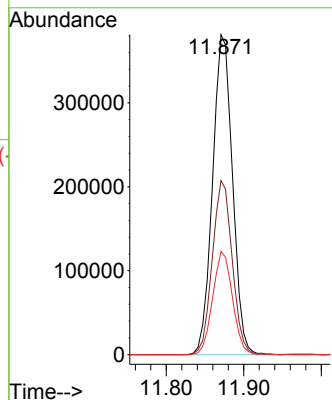
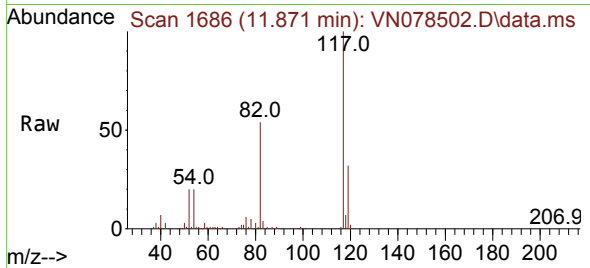
Tgt Ion:117 Resp: 680981

Ion Ratio Lower Upper

117 100

82 54.4 44.0 66.0

119 32.3 25.6 38.4



#71

Bromoform

Concen: 0.478 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

Lab File: VN078502.D

Acq: 13 Jul 2023 16:38

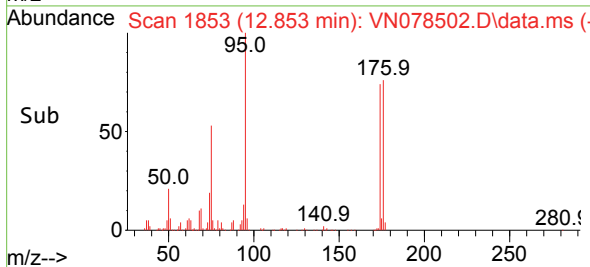
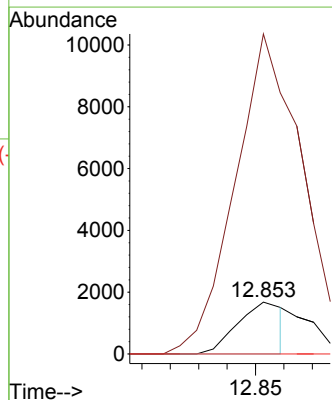
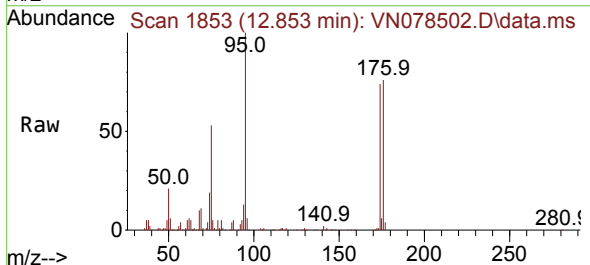
Tgt Ion:173 Resp: 1894

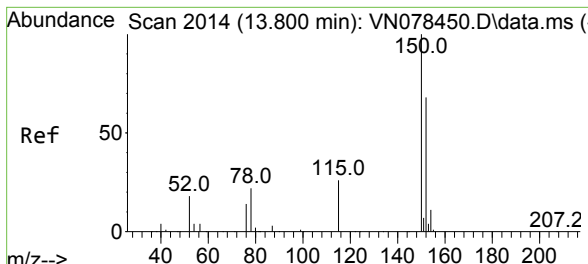
Ion Ratio Lower Upper

173 100

175 637.9 24.3 73.0#

254 0.0 0.0 0.0

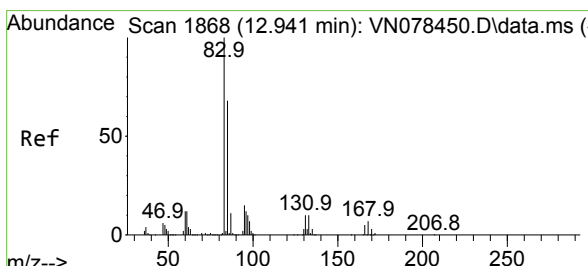
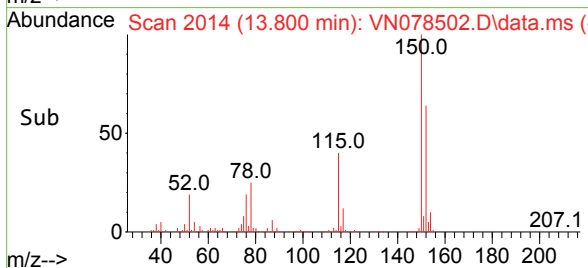
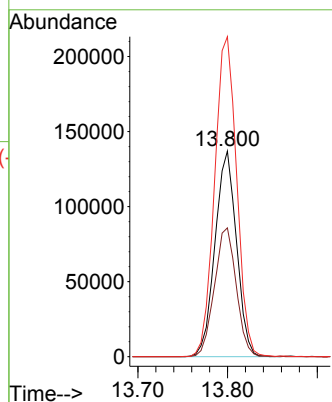
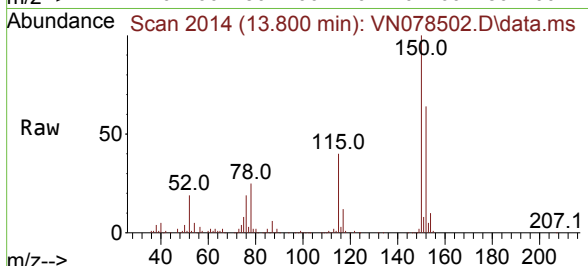




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN078502.D
 Acq: 13 Jul 2023 16:38

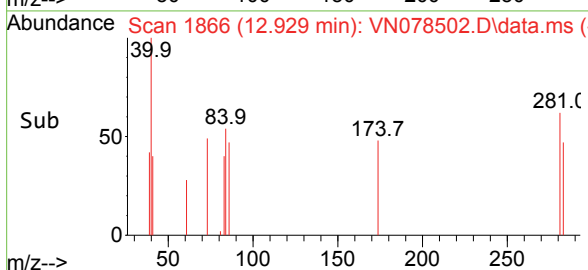
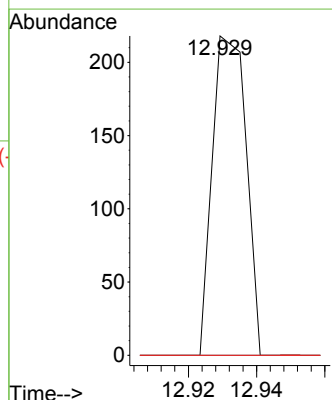
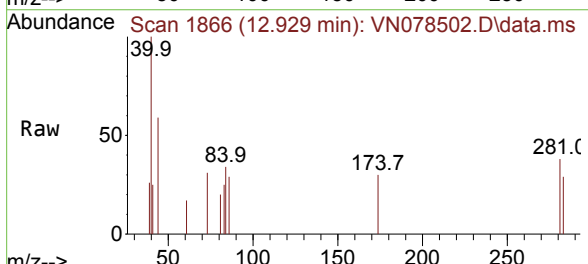
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

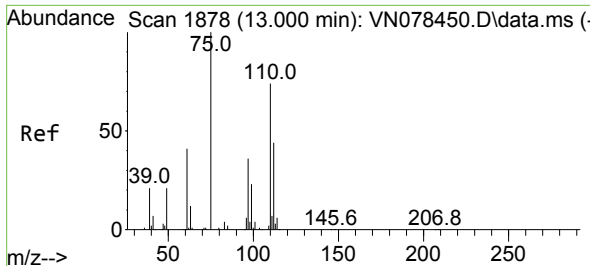
Tgt Ion:152 Resp: 227477
 Ion Ratio Lower Upper
 152 100
 115 63.7 32.3 96.8
 150 160.0 0.0 355.8



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.929 min Scan# 1866
 Delta R.T. -0.012 min
 Lab File: VN078502.D
 Acq: 13 Jul 2023 16:38

Tgt Ion: 83 Resp: 150
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.0 15.0#
 85 0.0 31.9 95.7#

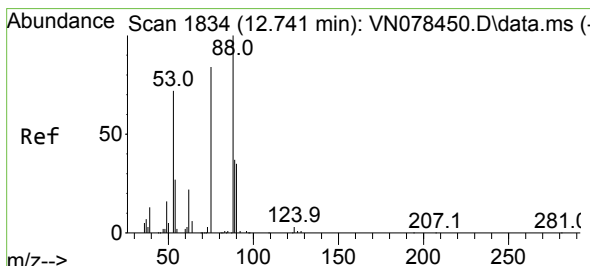
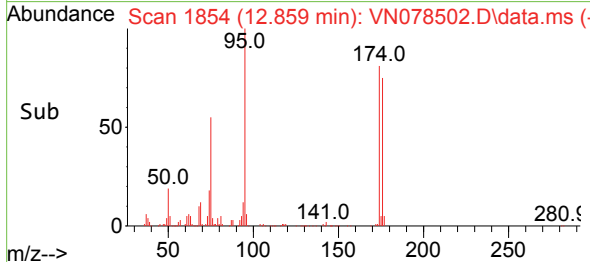
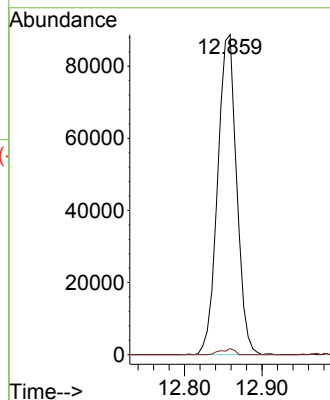
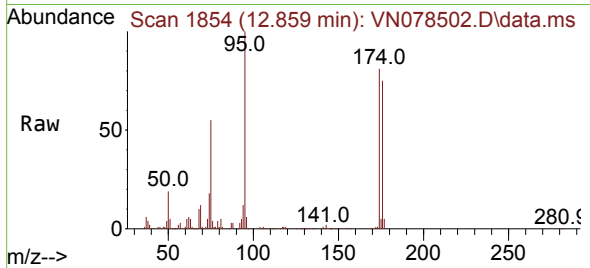




#76
1,2,3-Trichloropropane
Concen: 27.468 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN078502.D
Acq: 13 Jul 2023 16:38

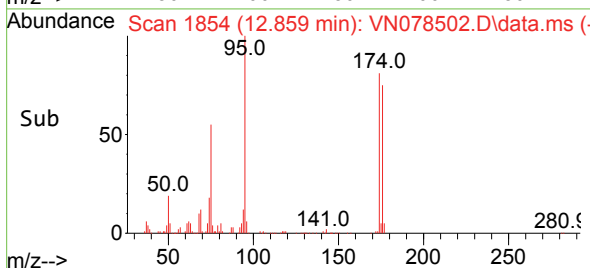
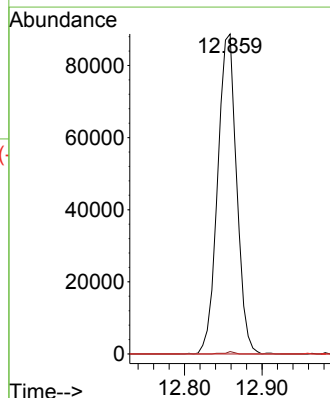
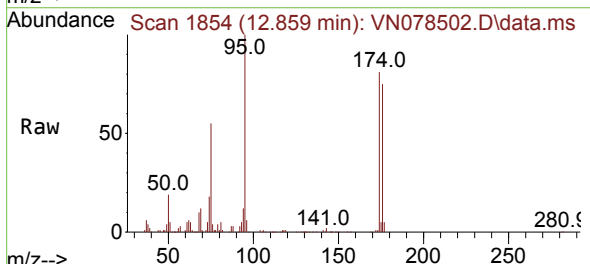
Instrument :
MSVOA_N
ClientSampleId :
IBLK

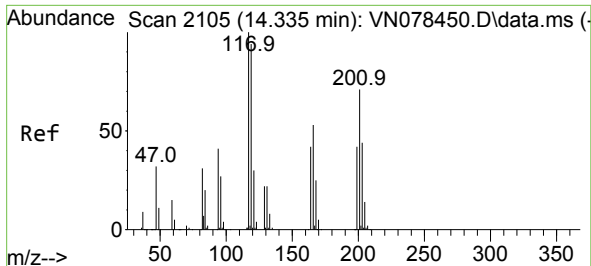
Tgt Ion: 75 Resp: 151028
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 72.180 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN078502.D
Acq: 13 Jul 2023 16:38

Tgt Ion: 75 Resp: 151028
Ion Ratio Lower Upper
75 100
53 0.4 67.4 101.2#
89 0.0 38.8 58.2#

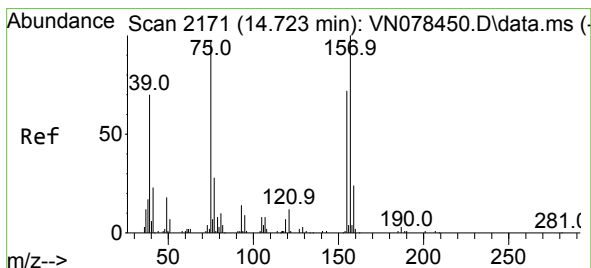
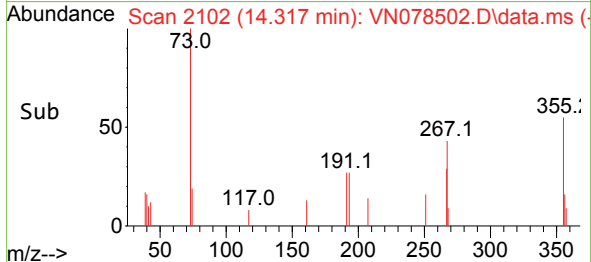
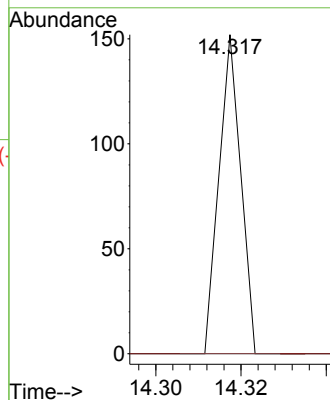
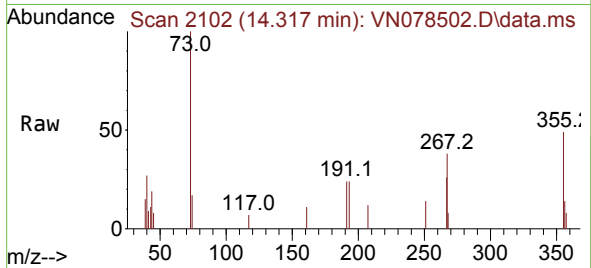




#90
Hexachloroethane
Concen: Below Cal
RT: 14.317 min Scan# 2105
Delta R.T. -0.018 min
Lab File: VN078502.D
Acq: 13 Jul 2023 16:38

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tgt Ion:117 Resp: 54
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.770 min Scan# 2179
Delta R.T. 0.047 min
Lab File: VN078502.D
Acq: 13 Jul 2023 16:38

Tgt Ion: 75 Resp: 55
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#

