

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042524\
 Data File : VN081861.D
 Acq On : 25 Apr 2024 19:28
 Operator : JC\MD
 Sample : P2257-13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4524

Quant Time: Apr 26 05:40:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042524W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 26 05:26:49 2024
 Response via : Initial Calibration

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

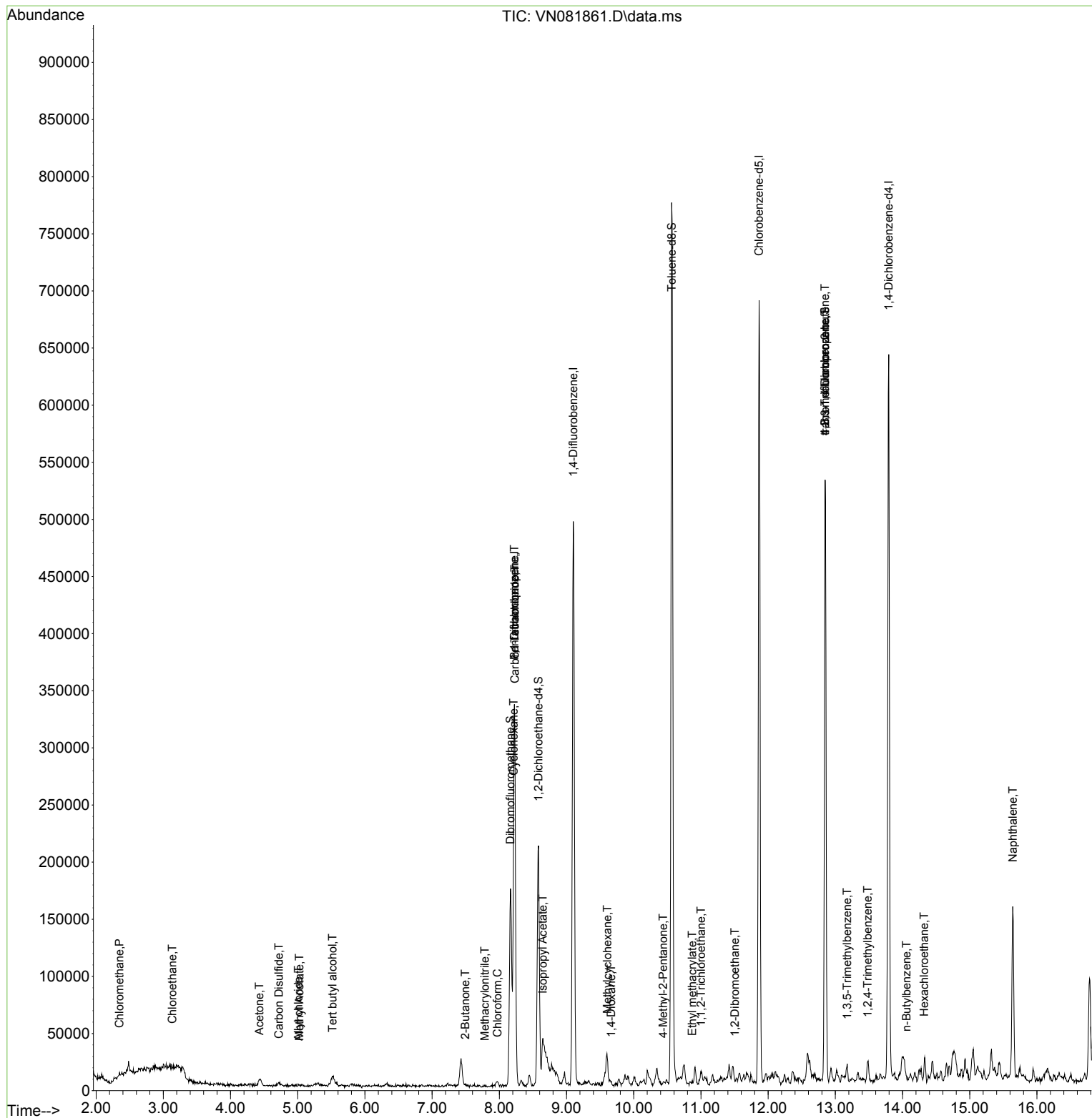
Internal Standards						
1) Pentafluorobenzene	8.224	168	221094	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	410722	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	367090	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	155995	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	174726	46.825	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.640%		
35) Dibromofluoromethane	8.165	113	124497	50.345	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.680%		
50) Toluene-d8	10.565	98	510006	52.512	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	105.020%		
62) 4-Bromofluorobenzene	12.847	95	192515	50.144	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	100.280%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.348	50	1161	0.359	ug/l #	43
5) Bromomethane	2.936	94	58	Below Cal	#	15
6) Chloroethane	3.136	64	488	0.329	ug/l #	58
11) Tert butyl alcohol	5.518	59	16257	23.966	ug/l	98
13) Acrolein	4.183	56	425	Below Cal	#	1
14) Allyl chloride	5.012	41	1478	0.261	ug/l #	18
16) Acetone	4.430	43	9633	3.336	ug/l #	86
17) Carbon Disulfide	4.718	76	1876	0.233	ug/l #	55
18) Methyl Acetate	5.024	43	1431	0.379	ug/l #	47
25) 2-Butanone	7.494	43	1893	0.894	ug/l #	76
30) Chloroform	7.971	83	4559	0.806	ug/l #	71
31) Cyclohexane	8.212	56	8906	1.584	ug/l #	50
36) 1,1-Dichloropropene	8.224	75	21208	5.272	ug/l #	50
38) Carbon Tetrachloride	8.230	117	25111	6.386	ug/l #	15
39) Methylcyclohexane	9.606	83	11864	2.428	ug/l	87
41) Methacrylonitrile	7.783	41	807	0.291	ug/l #	43
43) Isopropyl Acetate	8.647	43	47973	5.865	ug/l #	54
49) 1,4-Dioxane	9.665	88	97	1.635	ug/l #	1
51) 4-Methyl-2-Pentanone	10.435	43	1007	0.219	ug/l #	84
55) 1,1,2-Trichloroethane	11.000	97	4623	1.625	ug/l #	22
56) Ethyl methacrylate	10.871	69	1144	0.211	ug/l #	70
61) 1,2-Dibromoethane	11.506	107	554	0.204	ug/l #	16
76) 1,2,3-Trichloropropane	12.847	75	103933	25.697	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.176	105	5861	0.499	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.847	75	103933	52.656	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.482	105	11558	0.986	ug/l	95
89) n-Butylbenzene	14.059	91	2576	0.250	ug/l #	72
90) Hexachloroethane	14.323	117	1017	0.468	ug/l #	17
95) Naphthalene	15.641	128	133561	12.170	ug/l	99

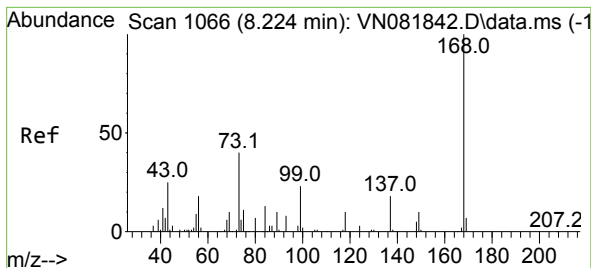
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN081861.D

Acq: 25 Apr 2024 19:28

Instrument :

MSVOA_N

ClientSampleId :

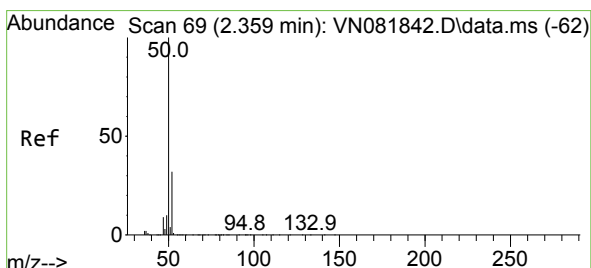
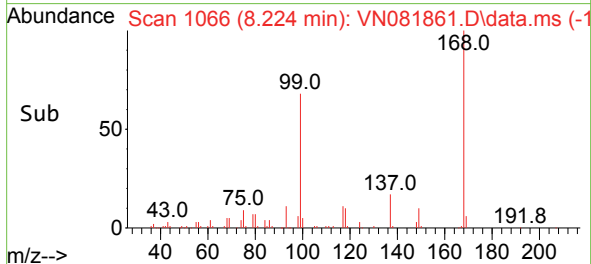
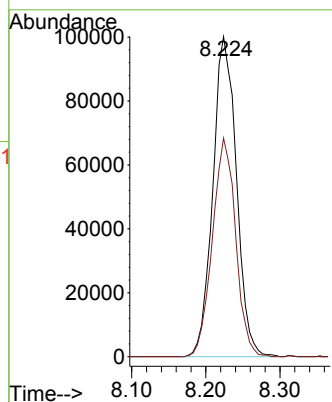
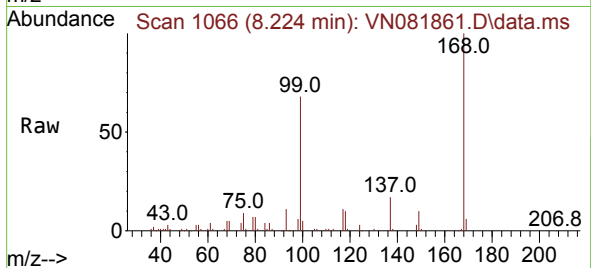
4524

Tgt Ion:168 Resp: 221094

Ion Ratio Lower Upper

168 100

99 68.3 48.2 72.4



#3

Chloromethane

Concen: 0.359 ug/l

RT: 2.348 min Scan# 67

Delta R.T. -0.012 min

Lab File: VN081861.D

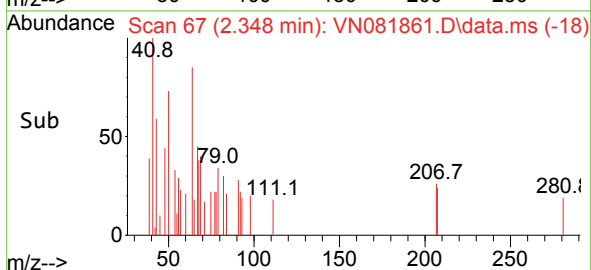
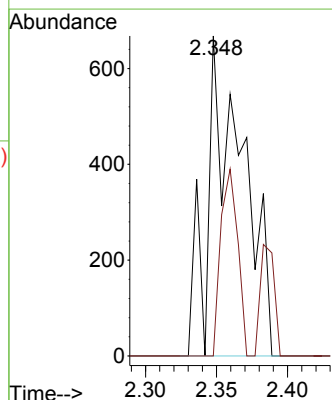
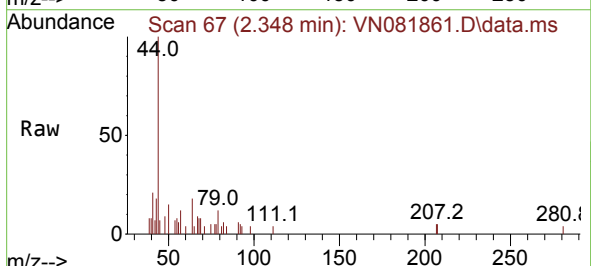
Acq: 25 Apr 2024 19:28

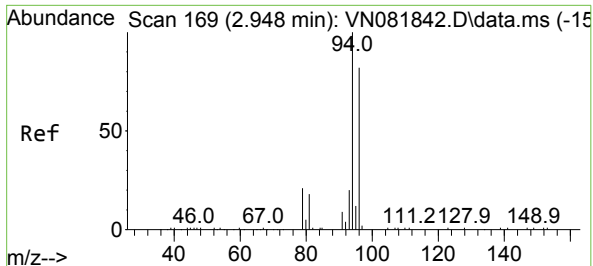
Tgt Ion: 50 Resp: 1161

Ion Ratio Lower Upper

50 100

52 0.0 25.5 38.3#

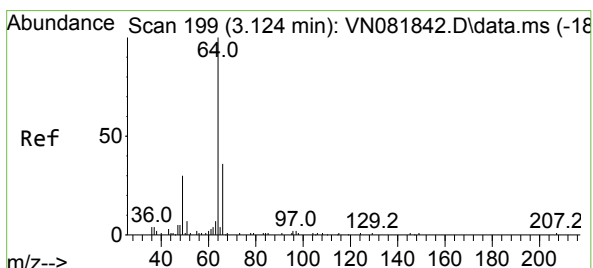
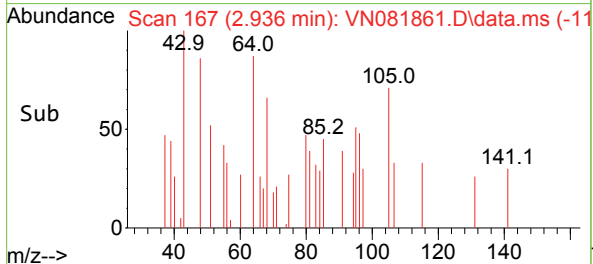
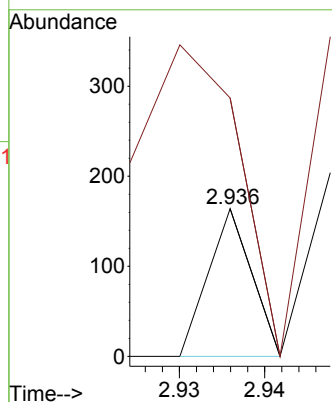
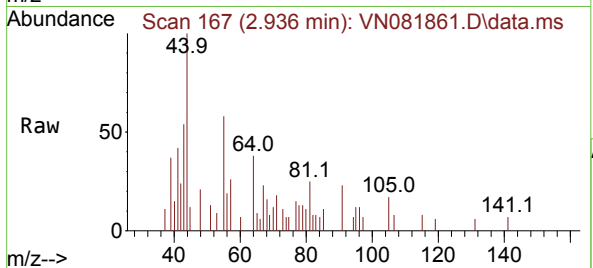




#5
Bromomethane
Concen: Below Cal
RT: 2.936 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

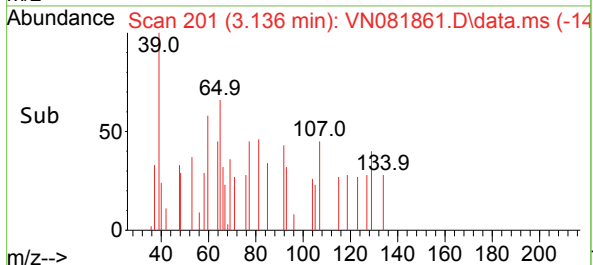
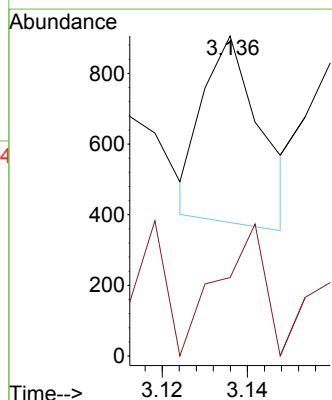
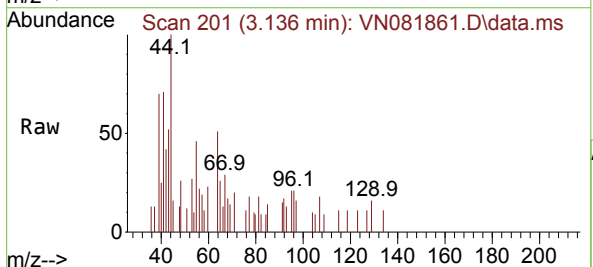
Instrument :
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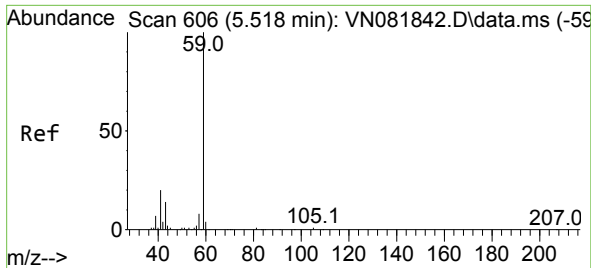
Tgt Ion: 94 Resp: 58
Ion Ratio Lower Upper
94 100
96 175.0 74.8 112.2#



#6
Chloroethane
Concen: 0.329 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.012 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

Tgt Ion: 64 Resp: 488
Ion Ratio Lower Upper
64 100
66 53.8 24.7 37.1#

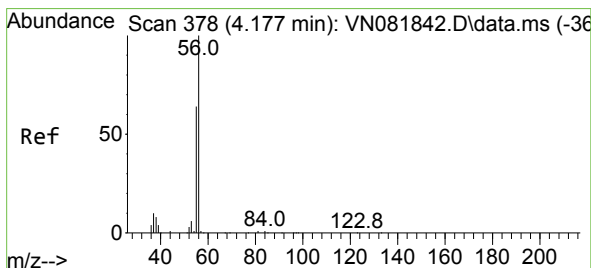
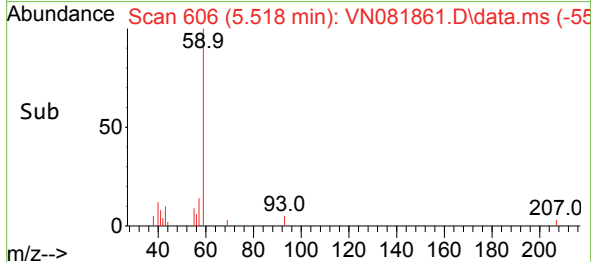
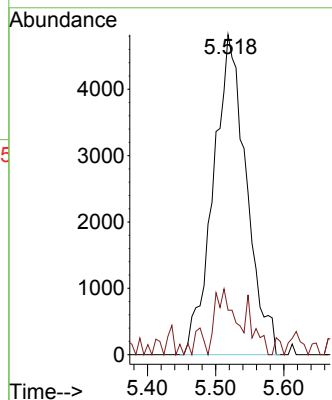
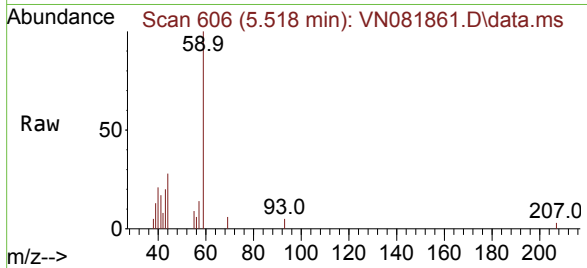




#11
Tert butyl alcohol
Concen: 23.966 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

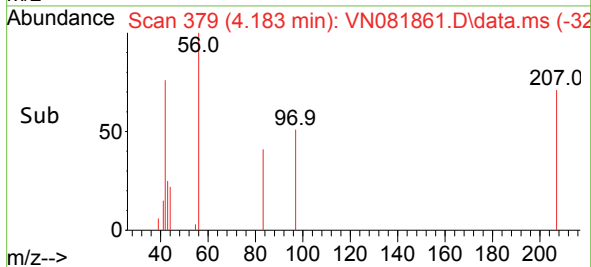
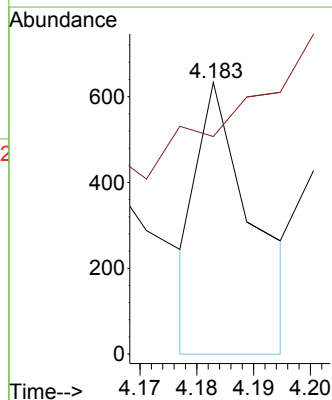
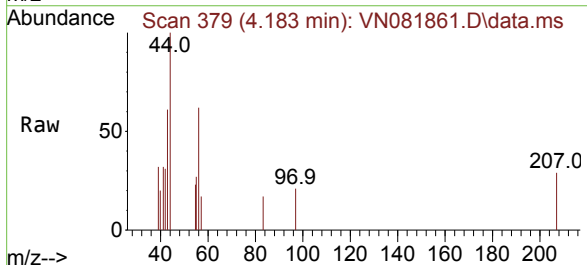
Instrument :
MSVOA_N
ClientSampleId :
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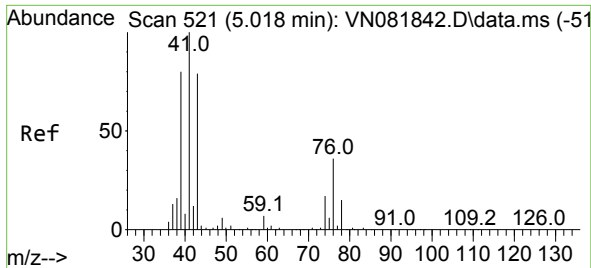
Tgt Ion: 59 Resp: 16257
Ion Ratio Lower Upper
59 100
57 12.0 8.9 13.3



#13
Acrolein
Concen: Below Cal
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

Tgt Ion: 56 Resp: 425
Ion Ratio Lower Upper
56 100
55 176.0 55.8 83.8#

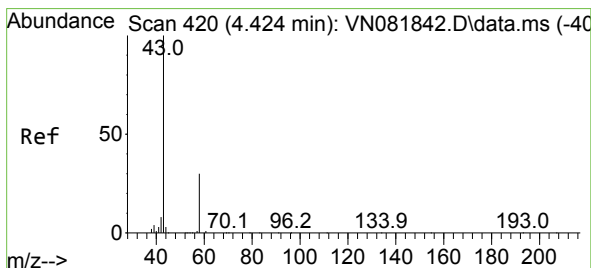
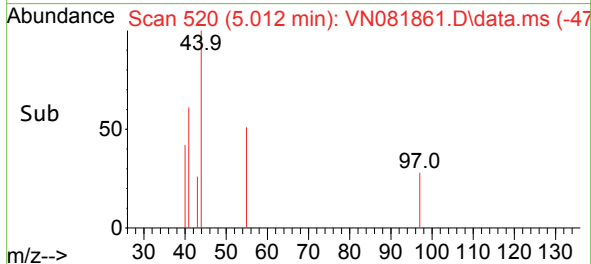
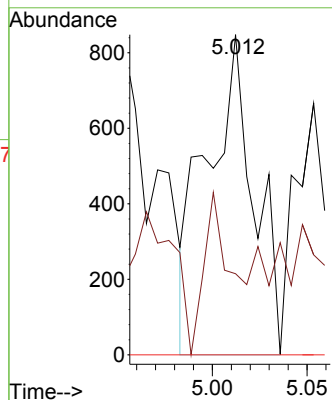
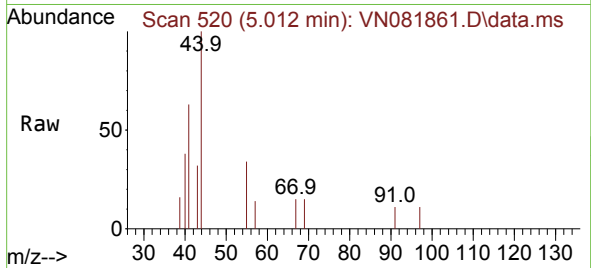




#14
 Allyl chloride
 Concen: 0.261 ug/l
 RT: 5.012 min Scan# 51
 Delta R.T. -0.006 min
 Lab File: VN081861.D
 Acq: 25 Apr 2024 19:28

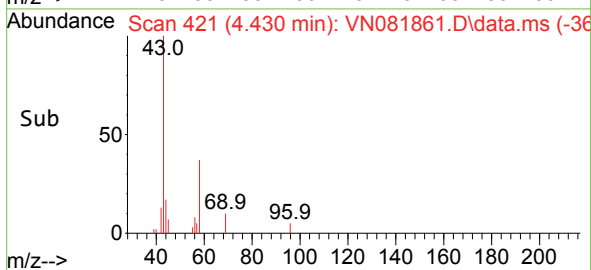
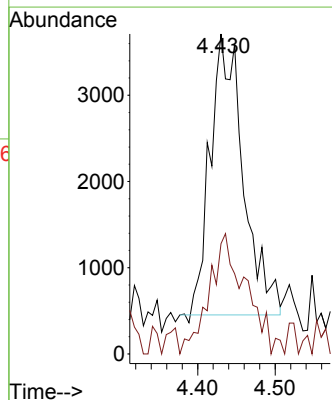
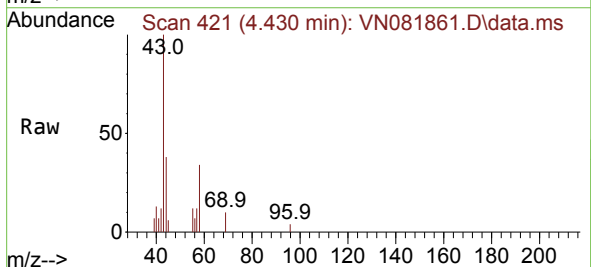
Instrument :
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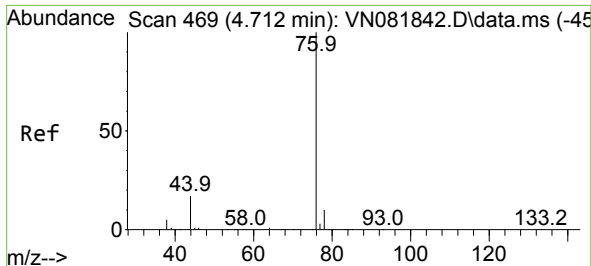
Tgt Ion: 41 Resp: 1478
 Ion Ratio Lower Upper
 41 100
 39 2.6 65.4 98.0#
 76 0.0 37.3 55.9#



#16
 Acetone
 Concen: 3.336 ug/l
 RT: 4.430 min Scan# 421
 Delta R.T. 0.006 min
 Lab File: VN081861.D
 Acq: 25 Apr 2024 19:28

Tgt Ion: 43 Resp: 9633
 Ion Ratio Lower Upper
 43 100
 58 39.2 25.2 37.8#

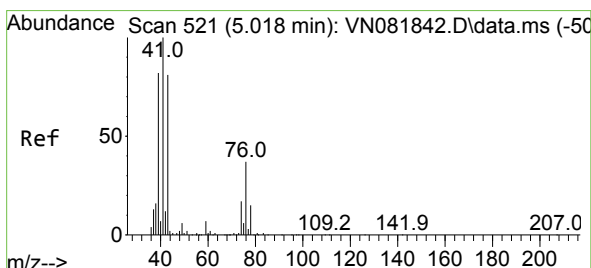
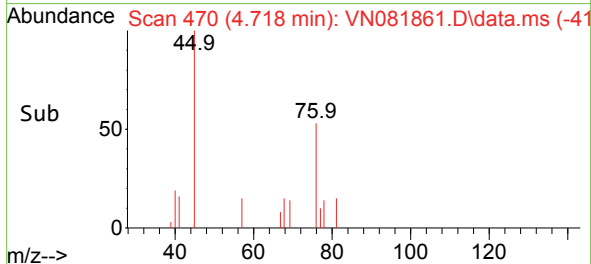
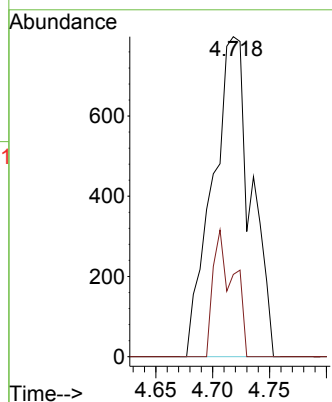
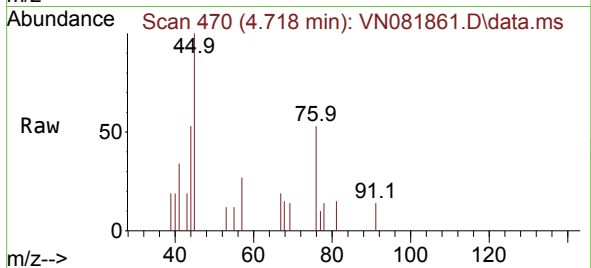




#17
Carbon Disulfide
Concen: 0.233 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

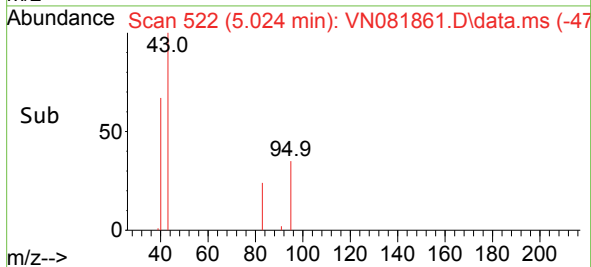
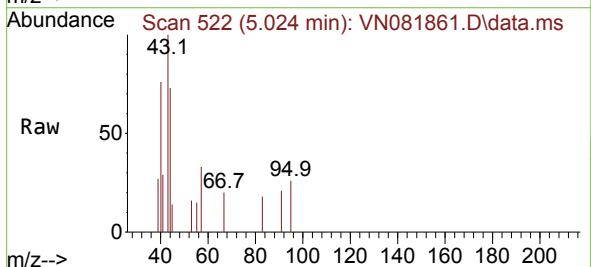
Instrument :
MSVOA_N
ClientSampleId :
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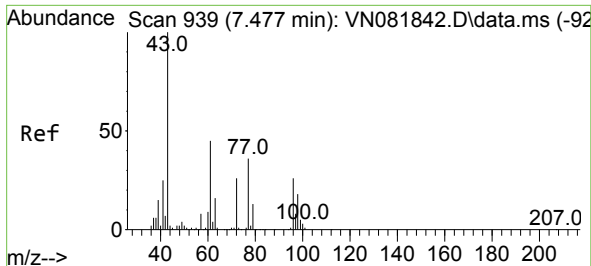
Tgt Ion: 76 Resp: 1876
Ion Ratio Lower Upper
76 100
78 25.7 7.5 11.3#



#18
Methyl Acetate
Concen: 0.379 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

Tgt Ion: 43 Resp: 1431
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.2#

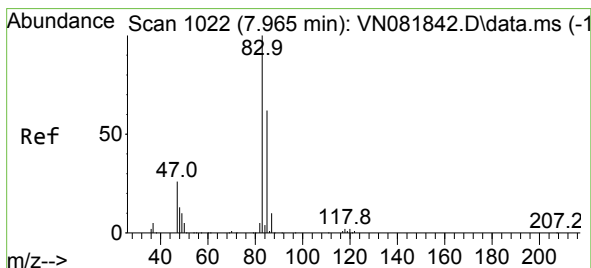
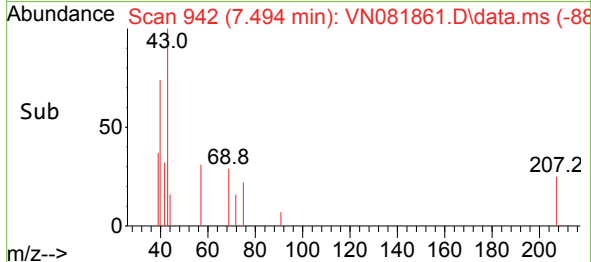
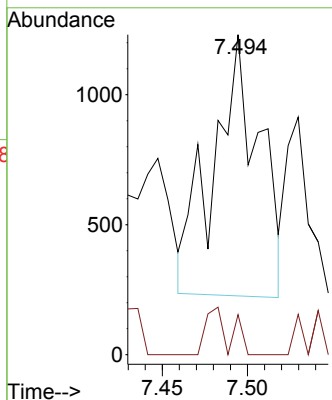
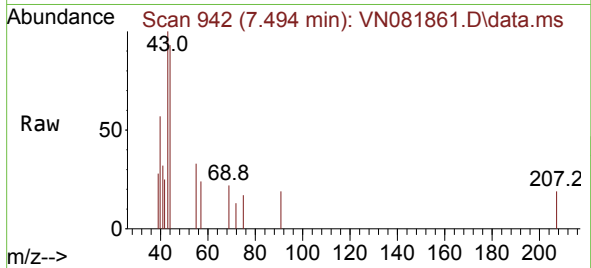




#25
2-Butanone
Concen: 0.894 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.018 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

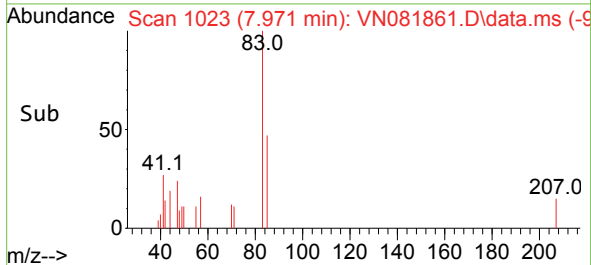
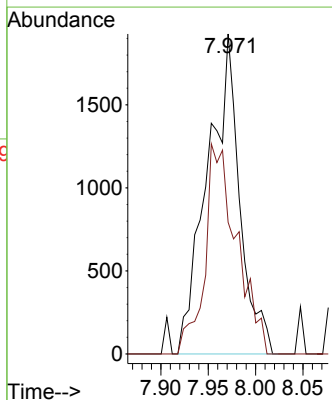
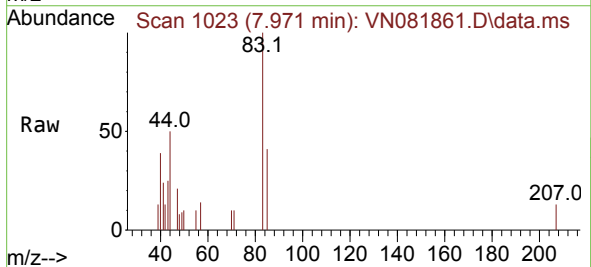
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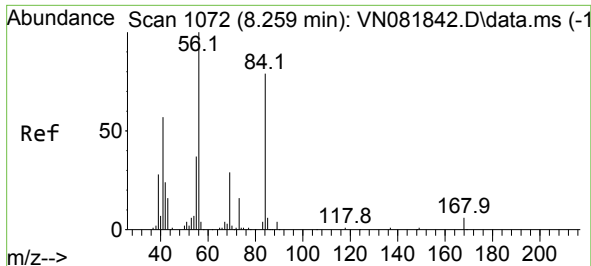
Tgt Ion: 43 Resp: 1893
Ion Ratio Lower Upper
43 100
72 18.4 25.3 37.9#



#30
Chloroform
Concen: 0.806 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

Tgt Ion: 83 Resp: 4559
Ion Ratio Lower Upper
83 100
85 41.2 50.7 76.1#

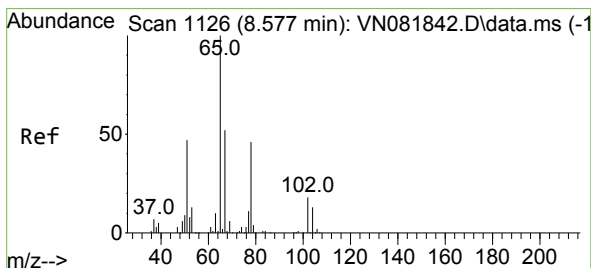
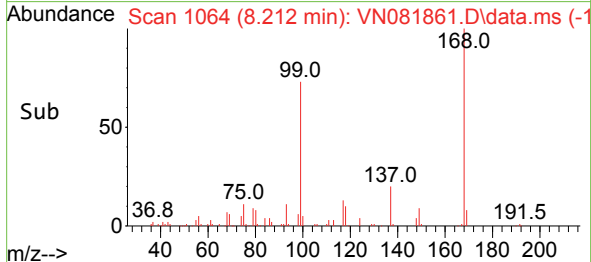
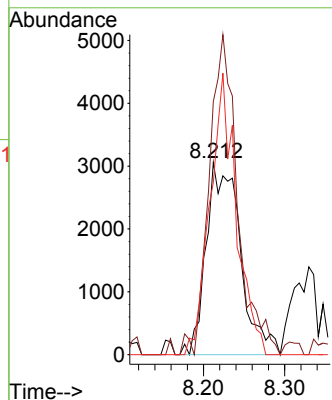
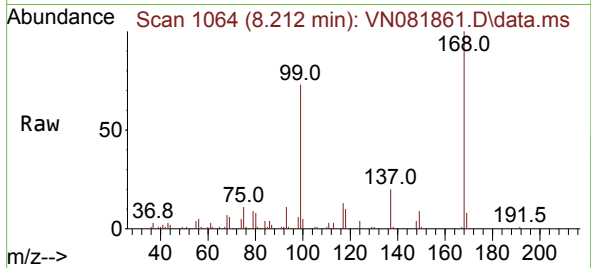




#31
Cyclohexane
Concen: 1.584 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.047 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

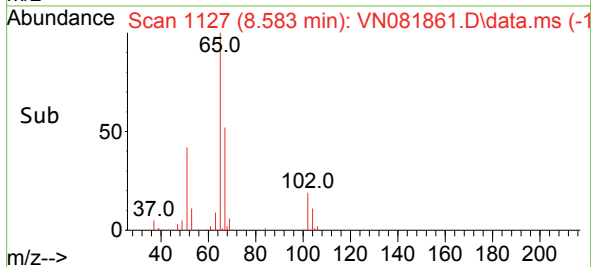
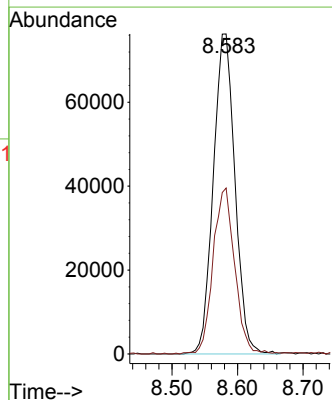
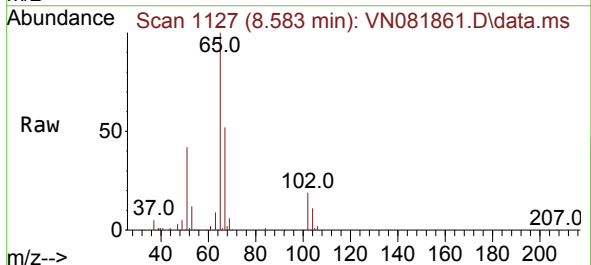
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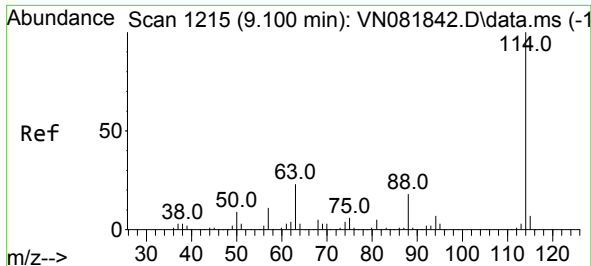
Tgt Ion: 56 Resp: 8906
Ion Ratio Lower Upper
56 100
69 131.6 24.4 36.6#
84 89.5 77.0 115.4



#33
1,2-Dichloroethane-d4
Concen: 46.825 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

Tgt Ion: 65 Resp: 174726
Ion Ratio Lower Upper
65 100
67 51.8 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN081861.D

Acq: 25 Apr 2024 19:28

Instrument :

MSVOA_N

ClientSampleId :

4524

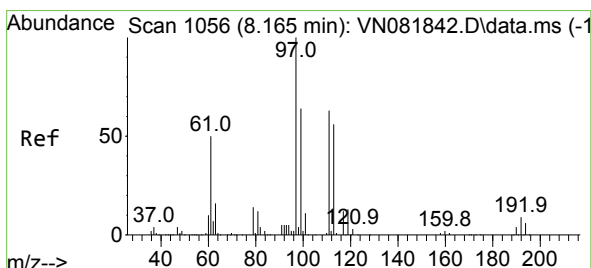
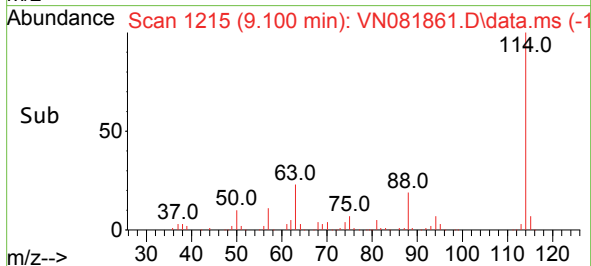
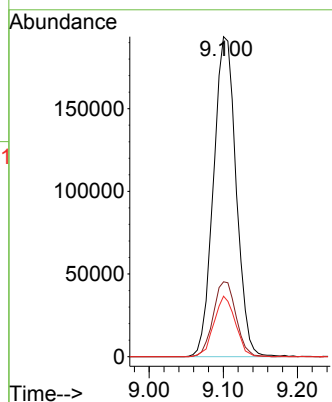
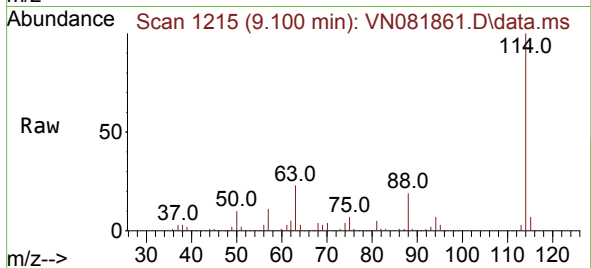
Tgt Ion:114 Resp: 410722

Ion Ratio Lower Upper

114 100

63 23.4 0.0 41.0

88 18.9 0.0 31.4



#35

Dibromofluoromethane

Concen: 50.345 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN081861.D

Acq: 25 Apr 2024 19:28

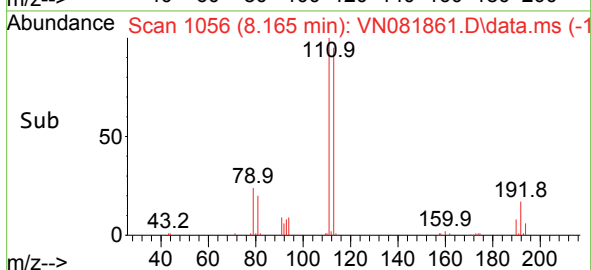
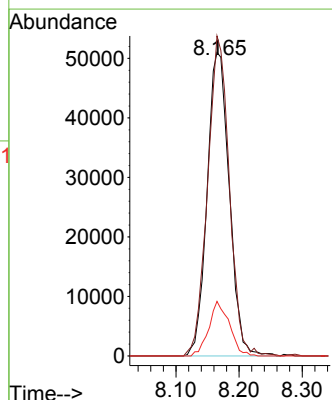
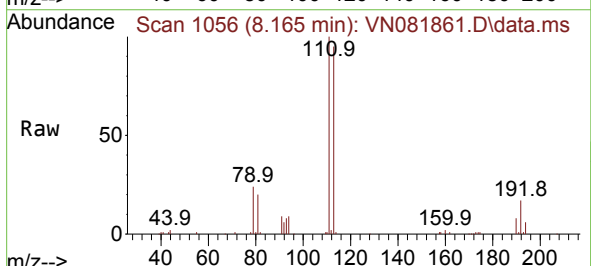
Tgt Ion:113 Resp: 124497

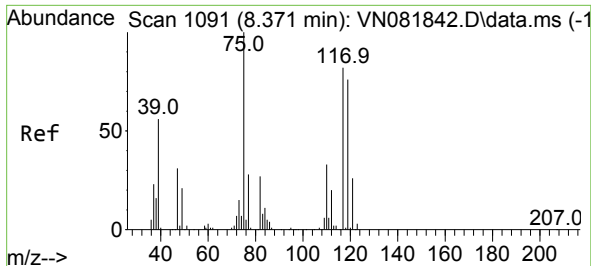
Ion Ratio Lower Upper

113 100

111 103.1 83.4 125.2

192 16.7 14.0 21.0





#36

1,1-Dichloropropene

Concen: 5.272 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081861.D

Acq: 25 Apr 2024 19:28

Instrument :

MSVOA_N

ClientSampleId :

4524

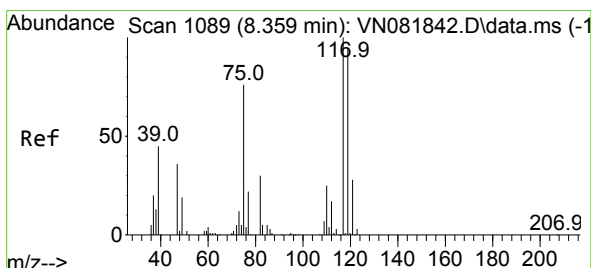
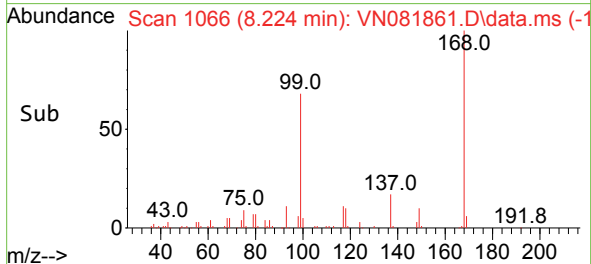
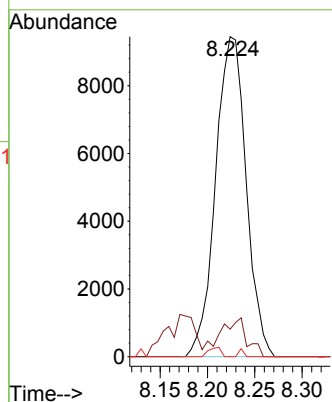
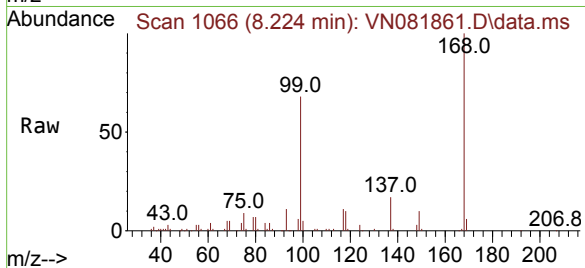
Tgt Ion: 75 Resp: 21208

Ion Ratio Lower Upper

75 100

110 9.4 17.8 53.5#

77 0.4 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.386 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.129 min

Lab File: VN081861.D

Acq: 25 Apr 2024 19:28

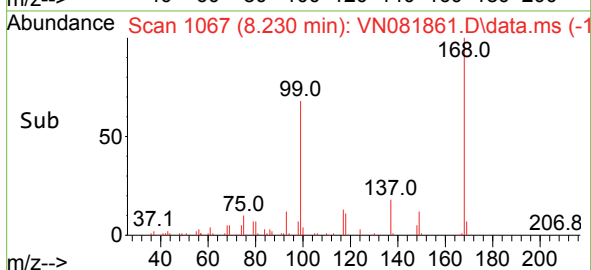
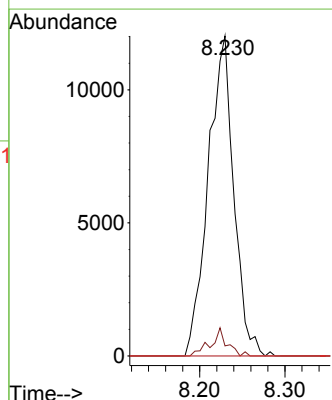
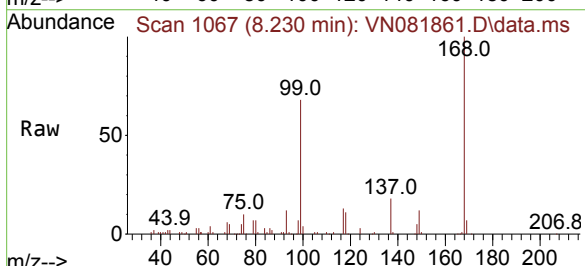
Tgt Ion: 117 Resp: 25111

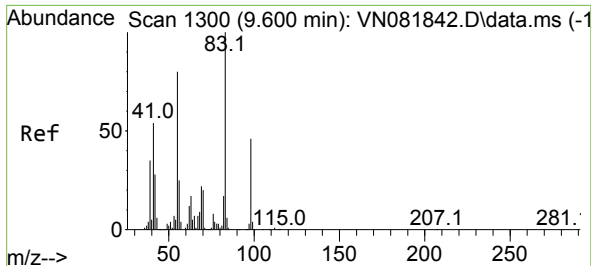
Ion Ratio Lower Upper

117 100

119 3.1 76.5 114.7#

121 0.0 23.9 35.9#





#39

Methylcyclohexane

Concen: 2.428 ug/l

RT: 9.606 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN081861.D

Acq: 25 Apr 2024 19:28

Instrument :

MSVOA_N

ClientSampleId :

4524

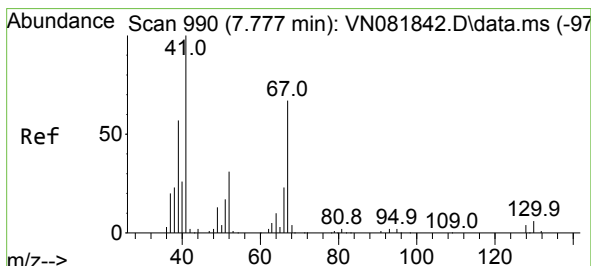
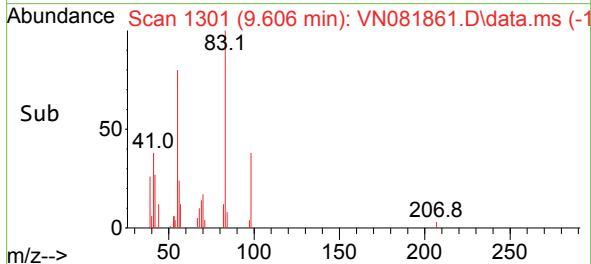
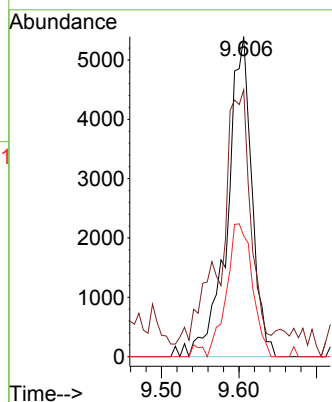
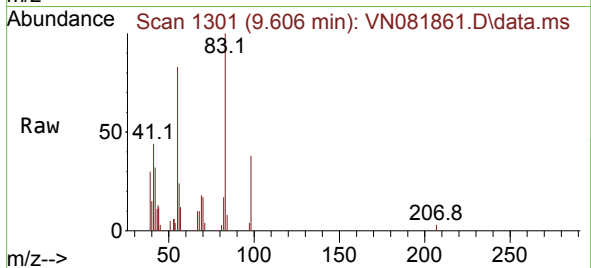
Tgt Ion: 83 Resp: 11864

Ion Ratio Lower Upper

83 100

55 77.3 53.0 79.6

98 37.8 37.1 55.7



#41

Methacrylonitrile

Concen: 0.291 ug/l

RT: 7.783 min Scan# 991

Delta R.T. 0.006 min

Lab File: VN081861.D

Acq: 25 Apr 2024 19:28

Tgt Ion: 41 Resp: 807

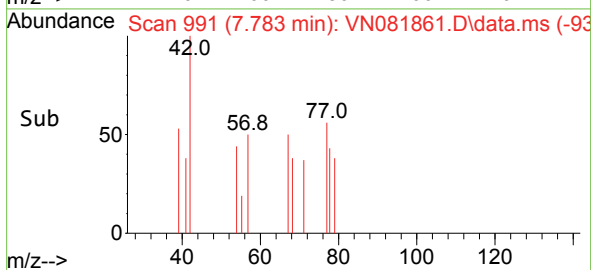
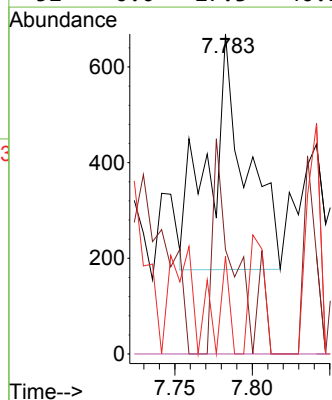
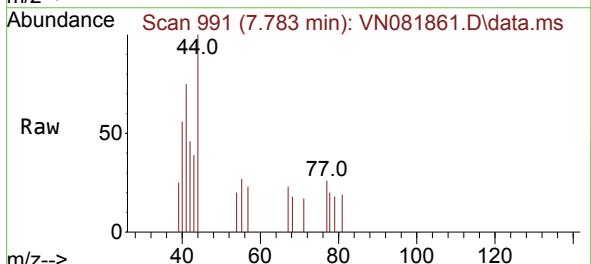
Ion Ratio Lower Upper

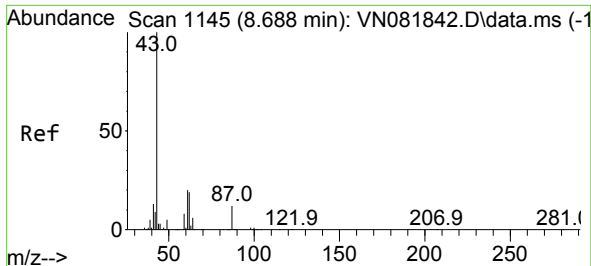
41 100

39 54.6 46.6 69.8

67 0.0 67.3 100.9#

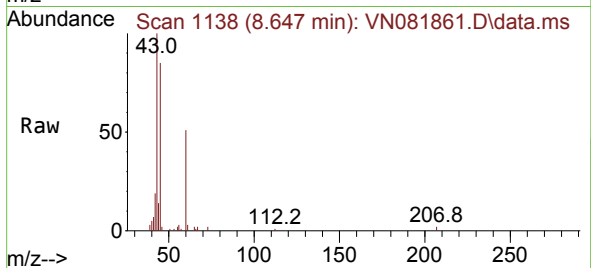
52 0.0 27.3 40.9#



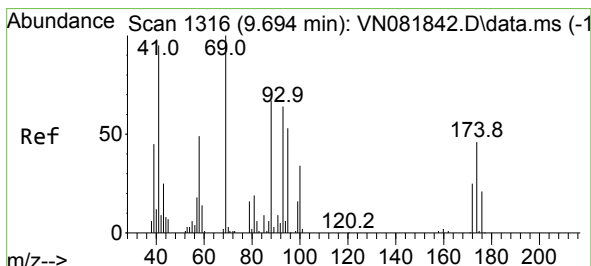
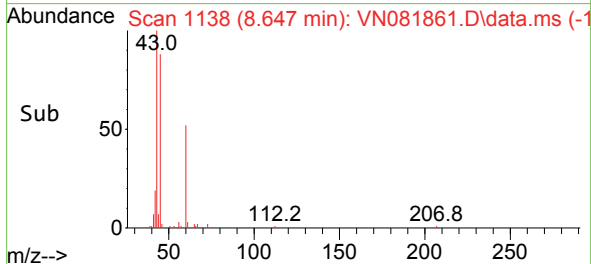
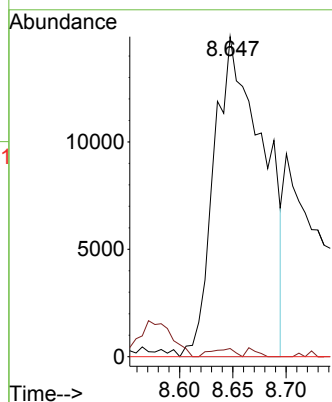


#43
Isopropyl Acetate
Concen: 5.865 ug/l
RT: 8.647 min Scan# 1138
Delta R.T. -0.041 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

Instrument :
MSVOA_N
ClientSampleId :
4524

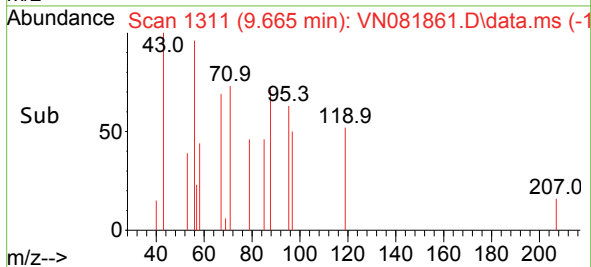
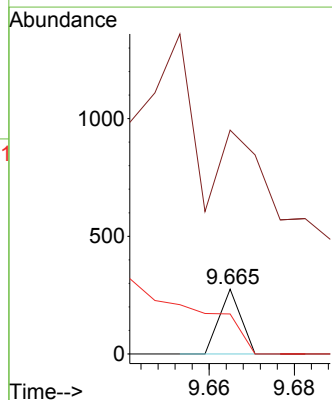
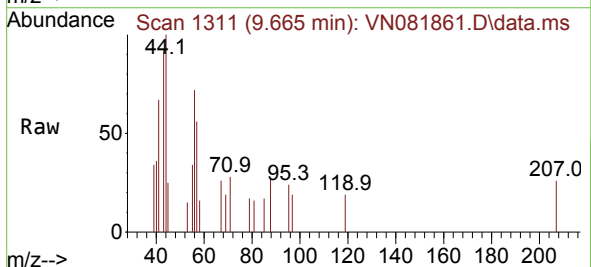


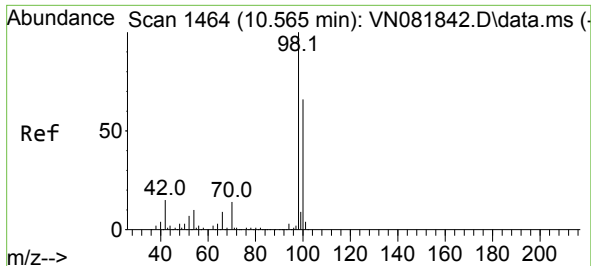
Tgt Ion: 43 Resp: 47973
Ion Ratio Lower Upper
43 100
61 1.2 22.8 34.2#
87 0.0 12.0 18.0#



#49
1,4-Dioxane
Concen: 1.635 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.029 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

Tgt Ion: 88 Resp: 97
Ion Ratio Lower Upper
88 100
43 1718.6 19.0 28.6#
58 0.0 50.6 76.0#

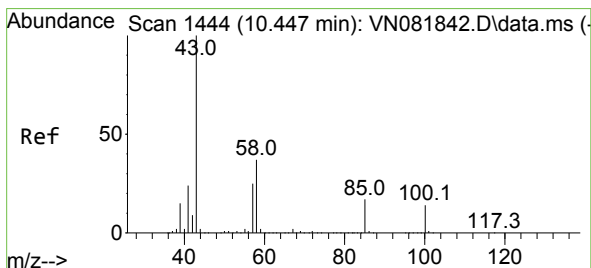
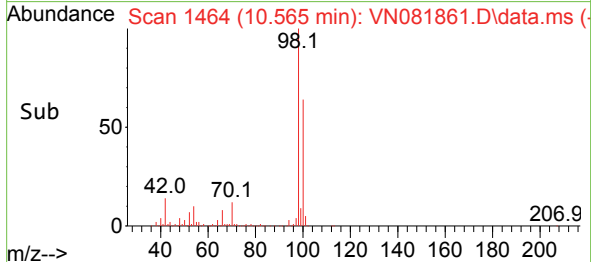
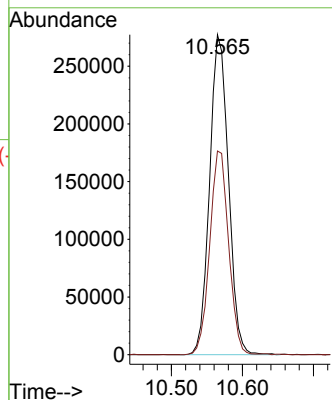
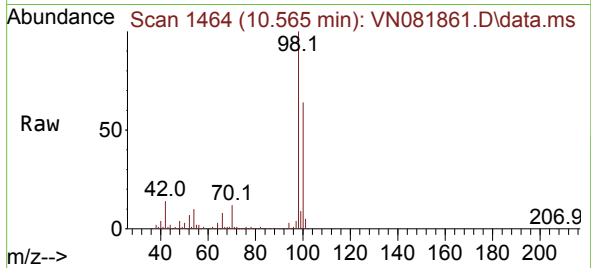




#50
Toluene-d8
Concen: 52.512 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

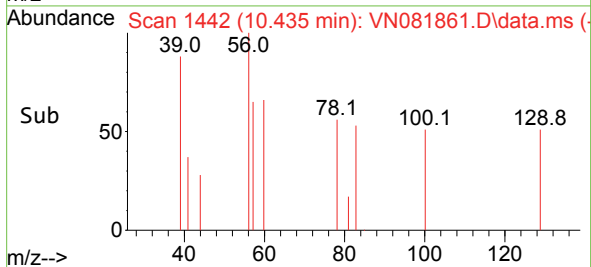
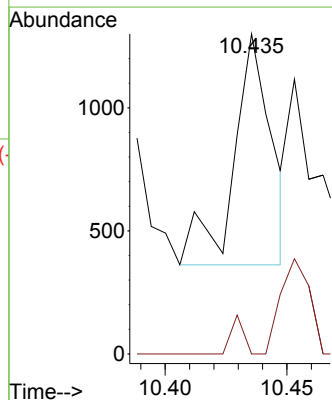
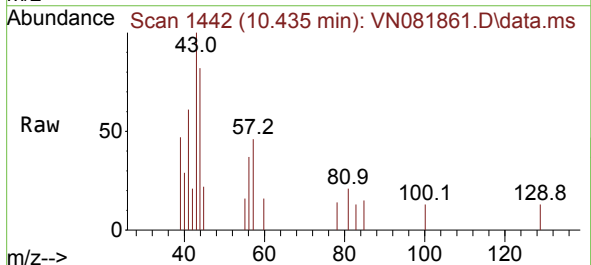
Instrument :
MSVOA_N
ClientSampleId :
4524

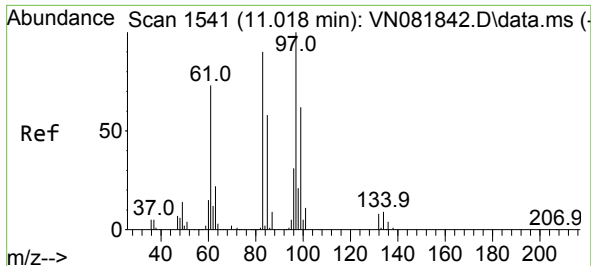
Tgt Ion: 98 Resp: 510006
Ion Ratio Lower Upper
98 100
100 63.9 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 0.219 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.012 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

Tgt Ion: 43 Resp: 1007
Ion Ratio Lower Upper
43 100
58 31.7 33.2 49.8#

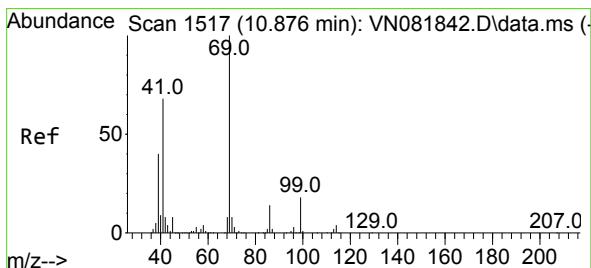
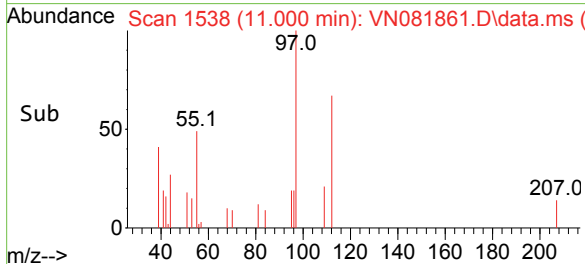
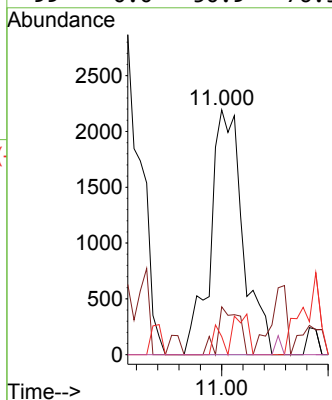
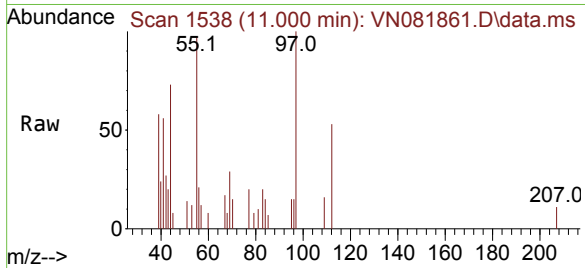




#55
1,1,2-Trichloroethane
Concen: 1.625 ug/l
RT: 11.000 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

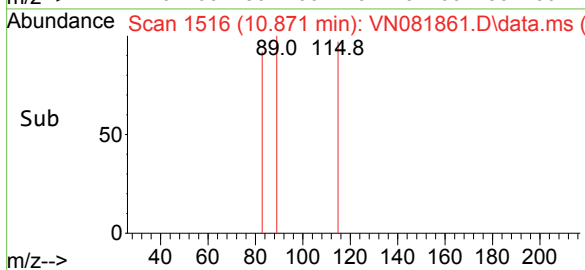
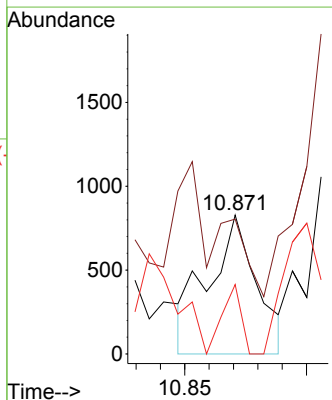
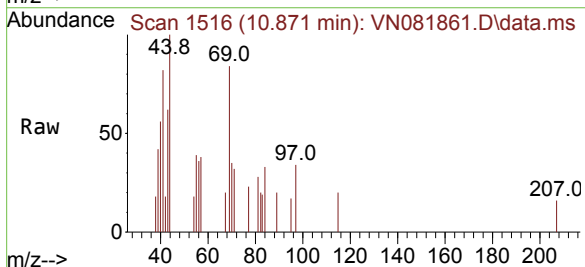
Instrument :
MSVOA_N
ClientSampleId :
4524

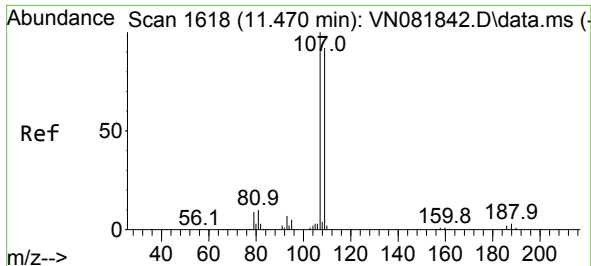
Tgt Ion: 97	Resp: 4623
Ion Ratio	Lower Upper
97 100	
83 11.8	70.4 105.6#
85 7.4	45.6 68.4#
99 0.0	50.9 76.3#



#56
Ethyl methacrylate
Concen: 0.211 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

Tgt Ion: 69	Resp:	1144	
Ion Ratio	Lower	Upper	
69 100			
41 83.1	46.6	70.0#	
39 19.6	26.5	39.7#	

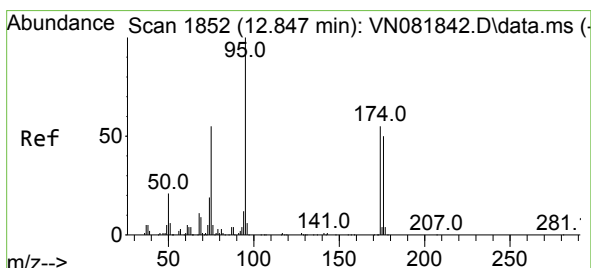
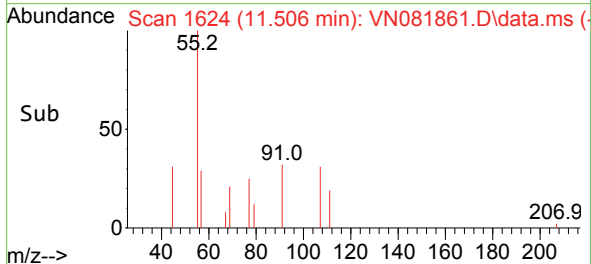
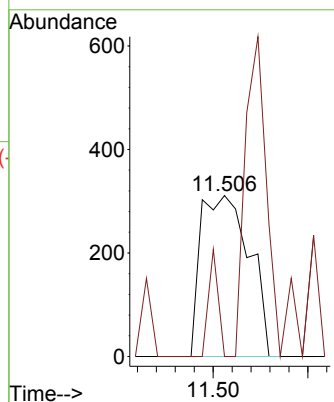
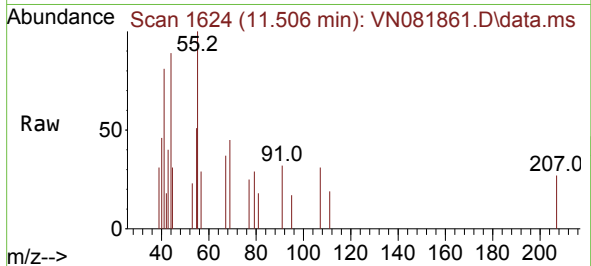




#61
1,2-Dibromoethane
Concen: 0.204 ug/l
RT: 11.506 min Scan# 1624
Delta R.T. 0.035 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

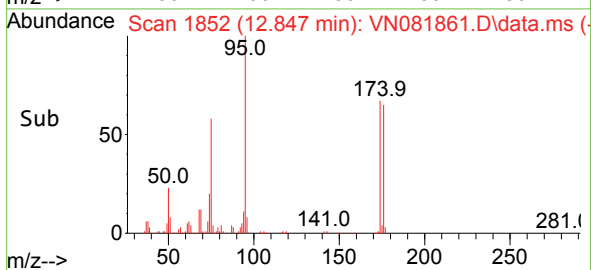
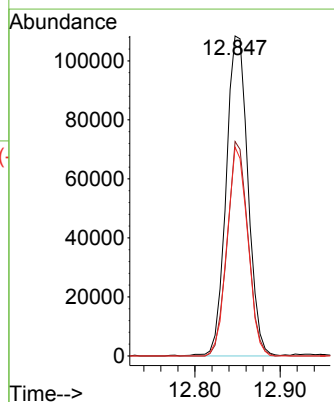
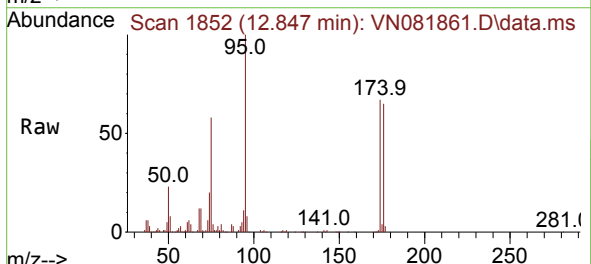
Instrument :
MSVOA_N
ClientSampleId :
4524

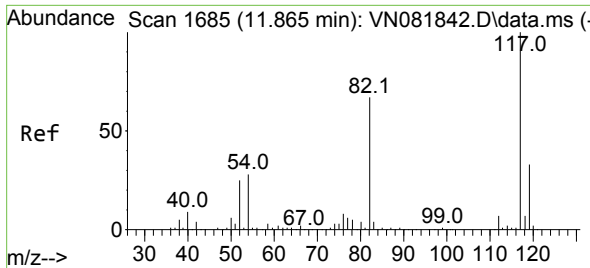
Tgt Ion:107 Resp: 554
Ion Ratio Lower Upper
107 100
109 13.2 75.8 113.6#



#62
4-Bromofluorobenzene
Concen: 50.144 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

Tgt Ion: 95 Resp: 192515
Ion Ratio Lower Upper
95 100
174 63.7 0.0 160.6
176 62.1 0.0 152.8

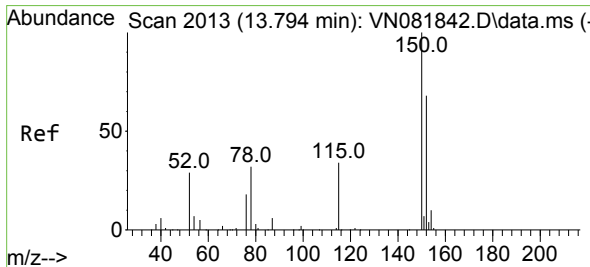
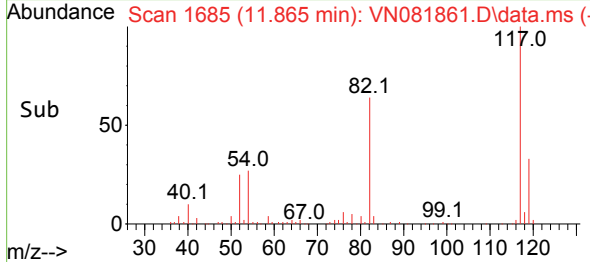
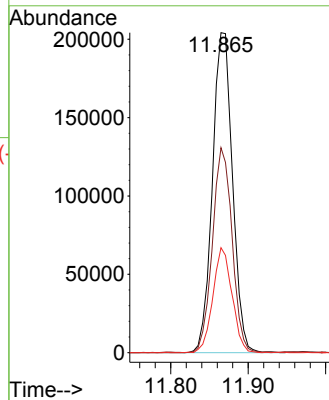
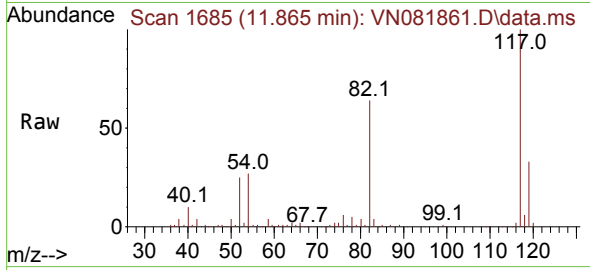




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

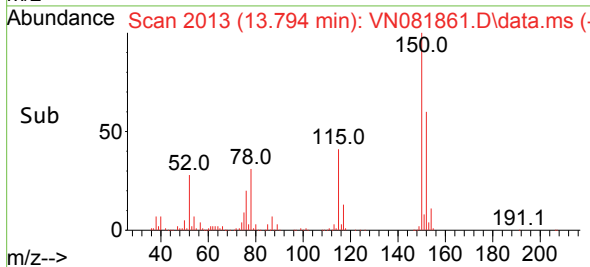
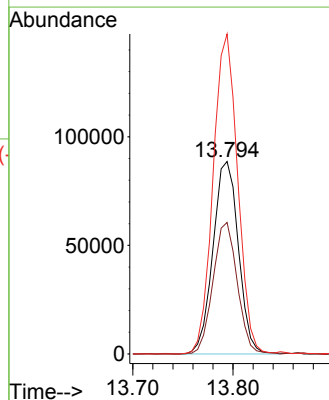
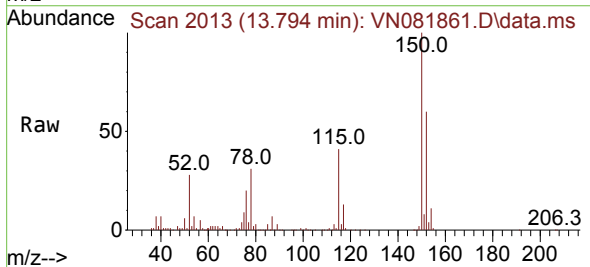
Instrument :
MSVOA_N
ClientSampleId :
4524

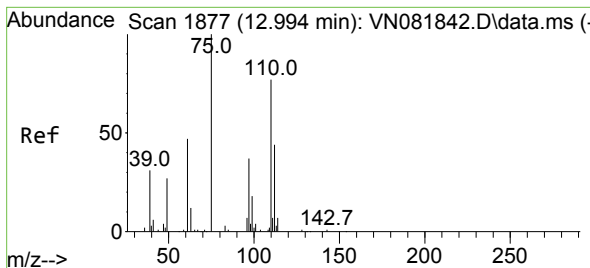
Tgt Ion:117 Resp: 367090
Ion Ratio Lower Upper
117 100
82 63.9 44.6 66.8
119 32.8 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

Tgt Ion:152 Resp: 155995
Ion Ratio Lower Upper
152 100
115 65.4 30.4 91.3
150 160.5 0.0 353.2





#76

1,2,3-Trichloropropane

Concen: 25.697 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081861.D

Acq: 25 Apr 2024 19:28

Instrument :

MSVOA_N

ClientSampleId :

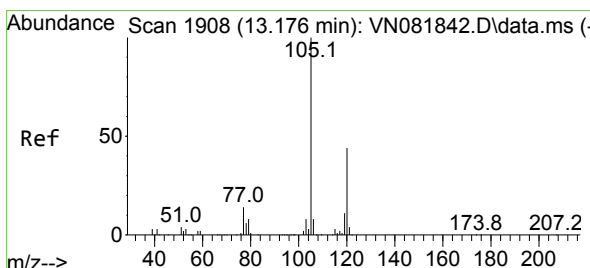
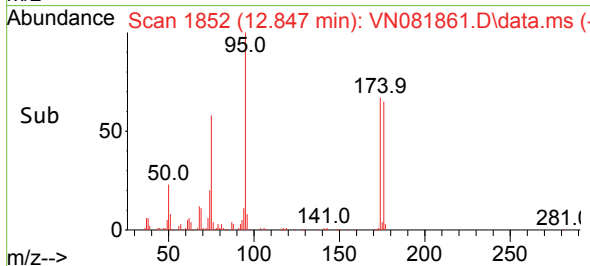
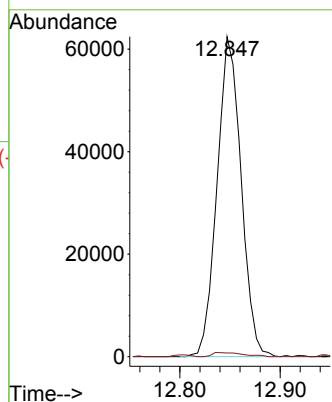
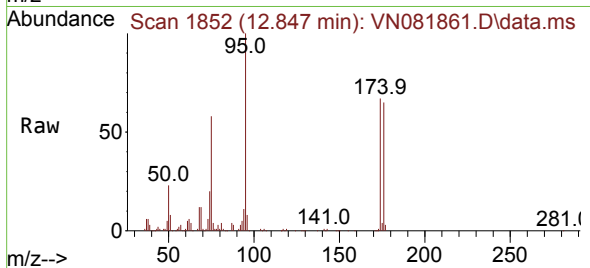
4524

Tgt Ion: 75 Resp: 103933

Ion Ratio Lower Upper

75 100

77 1.7 90.5 271.3#



#80

1,3,5-Trimethylbenzene

Concen: 0.499 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. 0.000 min

Lab File: VN081861.D

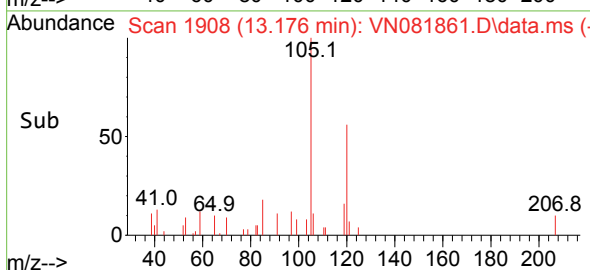
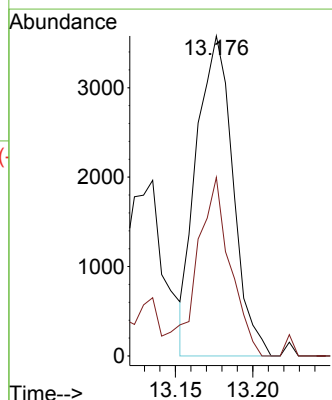
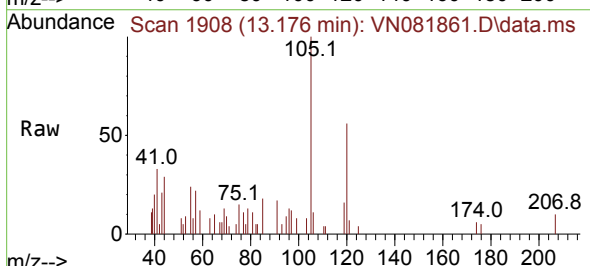
Acq: 25 Apr 2024 19:28

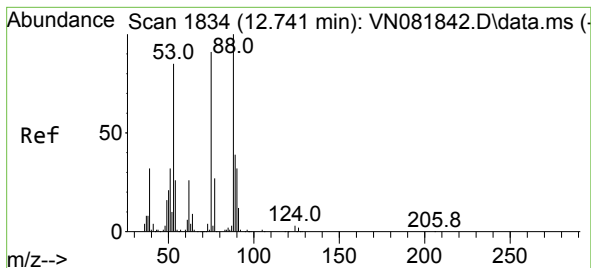
Tgt Ion:105 Resp: 5861

Ion Ratio Lower Upper

105 100

120 49.6 24.8 74.3

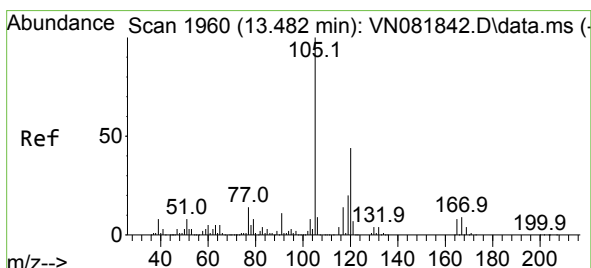
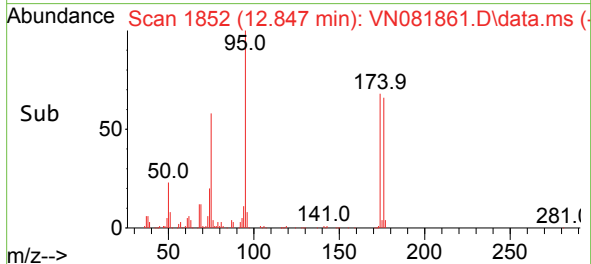
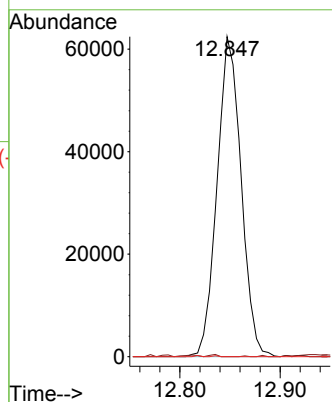
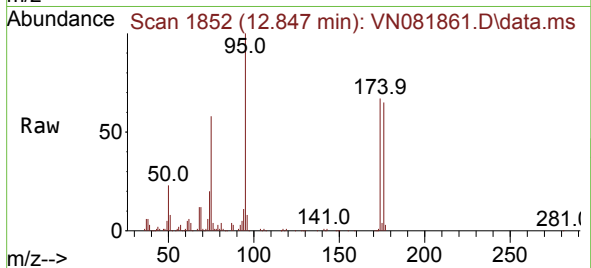




#81
 trans-1,4-Dichloro-2-butene
 Concen: 52.656 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.106 min
 Lab File: VN081861.D
 Acq: 25 Apr 2024 19:28

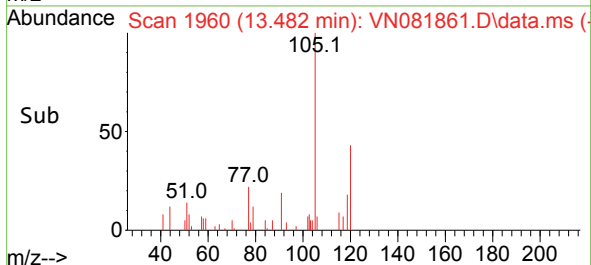
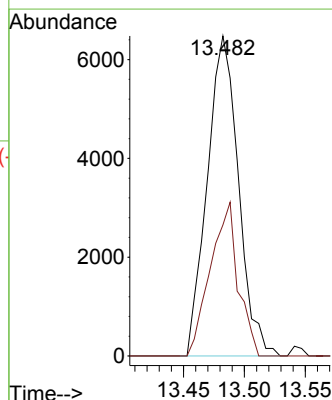
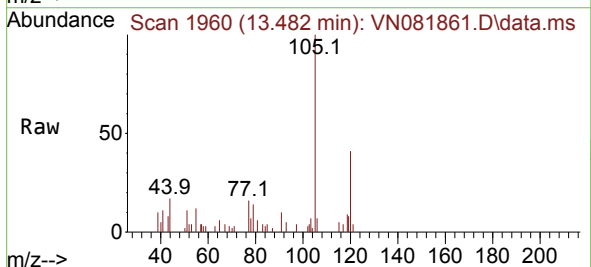
Instrument :
 MSVOA_N
 ClientSampleId :
 4524

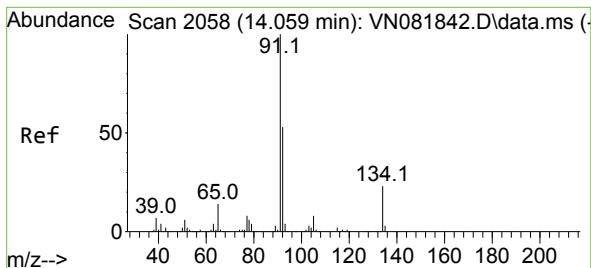
Tgt Ion: 75 Resp: 103933
 Ion Ratio Lower Upper
 75 100
 53 0.2 72.9 109.3#
 89 0.1 39.1 58.7#



#84
 1,2,4-Trimethylbenzene
 Concen: 0.986 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. 0.000 min
 Lab File: VN081861.D
 Acq: 25 Apr 2024 19:28

Tgt Ion: 105 Resp: 11558
 Ion Ratio Lower Upper
 105 100
 120 42.6 22.9 68.7





#89

n-Butylbenzene

Concen: 0.250 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. 0.000 min

Lab File: VN081861.D

Acq: 25 Apr 2024 19:28

Instrument :

MSVOA_N

ClientSampleId :

4524

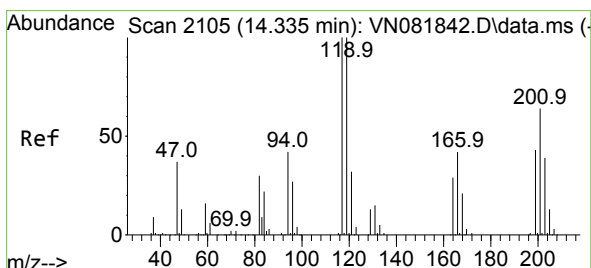
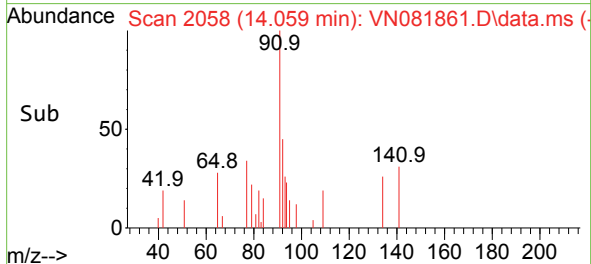
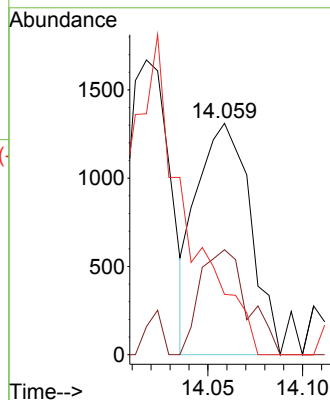
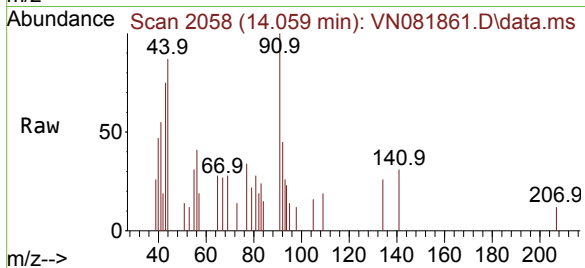
Tgt Ion: 91 Resp: 2576

Ion Ratio Lower Upper

91 100

92 40.5 26.2 78.5

134 0.0 13.2 39.5#



#90

Hexachloroethane

Concen: 0.468 ug/l

RT: 14.323 min Scan# 2103

Delta R.T. -0.012 min

Lab File: VN081861.D

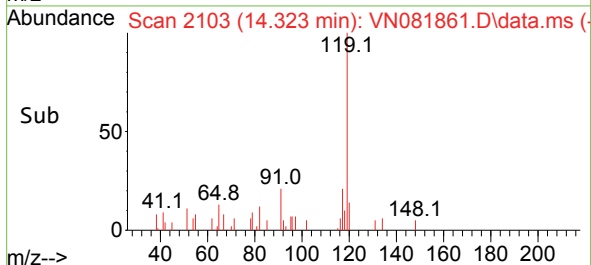
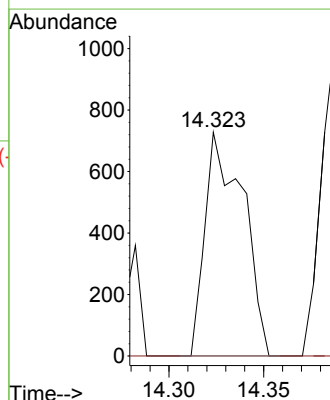
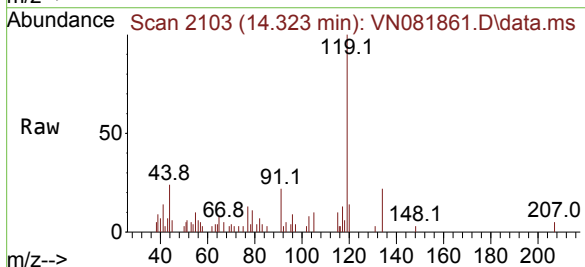
Acq: 25 Apr 2024 19:28

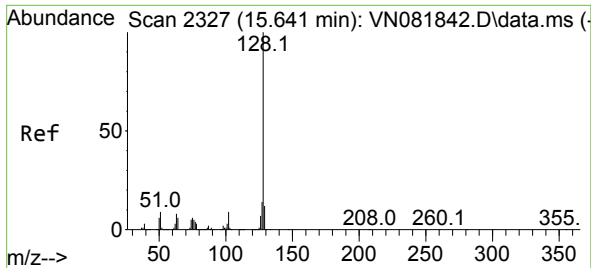
Tgt Ion: 117 Resp: 1017

Ion Ratio Lower Upper

117 100

201 0.0 33.3 99.8#





#95
Naphthalene
Concen: 12.170 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN081861.D
Acq: 25 Apr 2024 19:28

Instrument :
MSVOA_N
ClientSampleId :
4524

Tgt Ion:128 Resp: 133561
Ion Ratio Lower Upper
128 100
127 12.3 10.1 15.1
129 11.6 8.9 13.3

