

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021224\
 Data File : VN080998.D
 Acq On : 12 Feb 2024 11:09
 Operator : JC\MD
 Sample : VN0212WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212WBL01

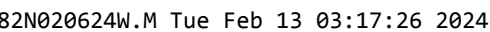
Quant Time: Feb 13 03:17:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N020624W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 07 06:22:23 2024
 Response via : Initial Calibration

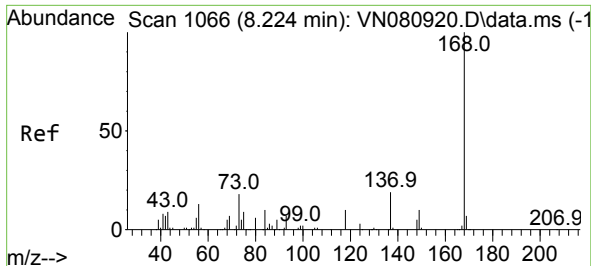
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	351212	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	738092	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	990929	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	468702	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	186931	42.191	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	84.380%		
35) Dibromofluoromethane	8.165	113	184792	46.658	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.320%		
50) Toluene-d8	10.571	98	668138	46.639	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.280%		
62) 4-Bromofluorobenzene	12.853	95	347172	66.710	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	133.420%#		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	2362	Below Cal		90
4) Vinyl Chloride	2.512	62	1321	0.254 ug/l	#	89
5) Bromomethane	2.965	94	2808	0.840 ug/l	#	65
10) Methyl Iodide	4.595	142	824	0.223 ug/l	#	80
13) Acrolein	4.183	56	710	0.923 ug/l	#	47
15) Acrylonitrile	5.706	53	639	0.383 ug/l	#	39
16) Acetone	4.430	43	764	0.524 ug/l	#	44
17) Carbon Disulfide	4.724	76	6182	0.651 ug/l		97
18) Methyl Acetate	5.018	43	698	Below Cal	#	54
25) 2-Butanone	7.488	43	924	0.395 ug/l	#	51
29) Tetrahydrofuran	7.835	42	400	0.280 ug/l	#	80
31) Cyclohexane	8.218	56	8523	1.408 ug/l	#	10
38) Carbon Tetrachloride	8.224	117	38343	6.348 ug/l	#	19
39) Methylcyclohexane	9.600	83	1712	0.261 ug/l	#	75
49) 1,4-Dioxane	9.700	88	230	2.697 ug/l	#	18
59) 2-Hexanone	11.188	43	969	0.259 ug/l	#	49
76) 1,2,3-Trichloropropane	12.853	75	175155	18.328 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	175155	49.796 ug/l	#	14
83) tert-Butylbenzene	13.447	119	5825	0.231 ug/l		91
85) sec-Butylbenzene	13.623	105	9972	0.294 ug/l		93
86) p-Isopropyltoluene	13.729	119	8114	0.283 ug/l		91
87) 1,3-Dichlorobenzene	13.729	146	4043	0.247 ug/l		92
88) 1,4-Dichlorobenzene	13.729	146	4043	0.243 ug/l		94
89) n-Butylbenzene	14.053	91	10716	0.423 ug/l		95
90) Hexachloroethane	14.341	117	1005	0.222 ug/l	#	35
93) 1,2,4-Trichlorobenzene	15.394	180	6205	0.799 ug/l		91
94) Hexachlorobutadiene	15.494	225	4986	1.482 ug/l		94
95) Naphthalene	15.641	128	16508	0.644 ug/l	#	94
96) 1,2,3-Trichlorobenzene	15.847	180	5801	0.759 ug/l		90

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

Quant Time: Feb 13 03:17:13 2024
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Response via : Initial Calibration

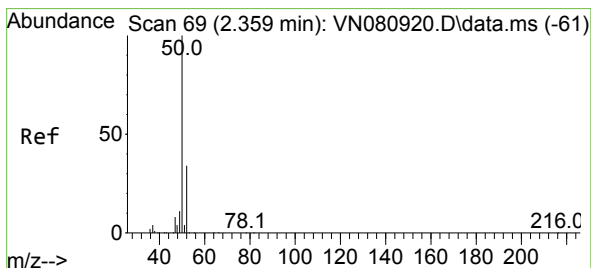
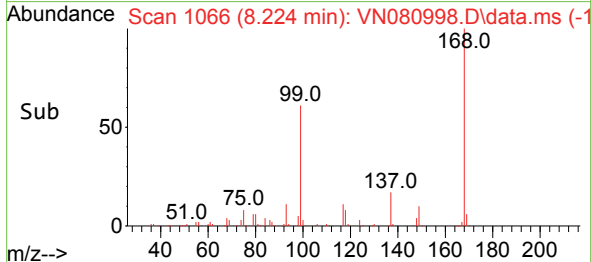
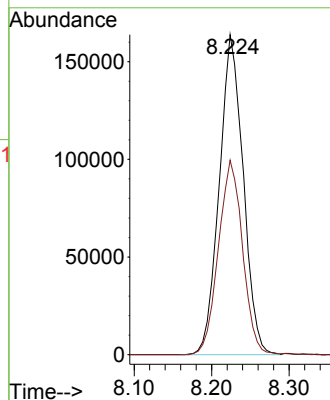
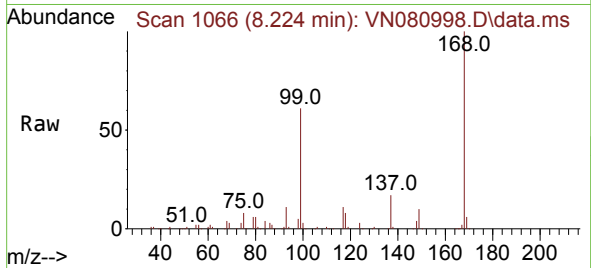




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

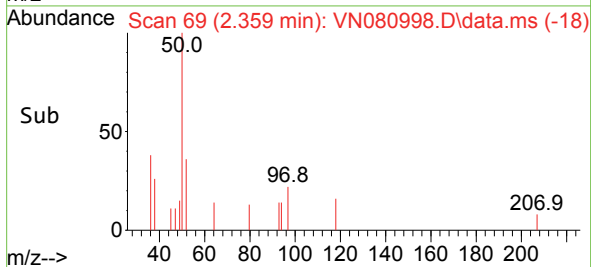
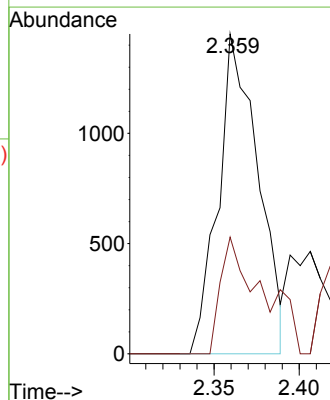
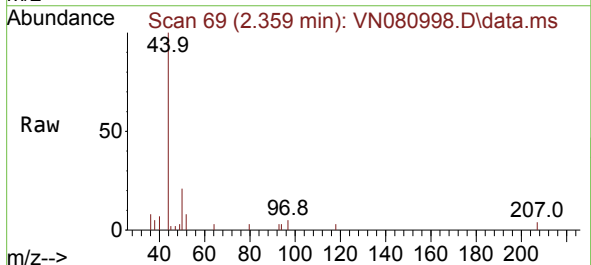
Instrument :
MSVOA_N
ClientSampleId :
VN0212WBL01

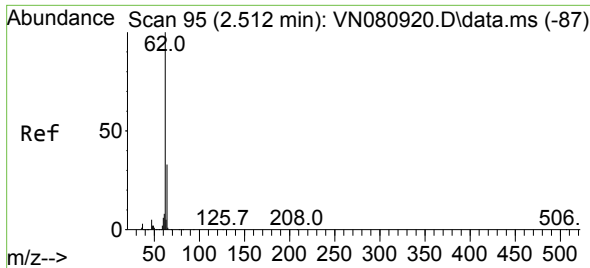
Tgt Ion:168 Resp: 351212
Ion Ratio Lower Upper
168 100
99 60.8 59.9 89.9



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

Tgt Ion: 50 Resp: 2362
Ion Ratio Lower Upper
50 100
52 36.5 25.0 37.4

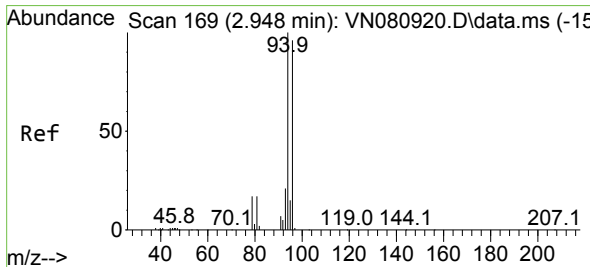
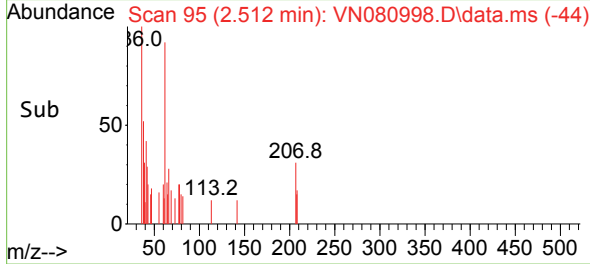
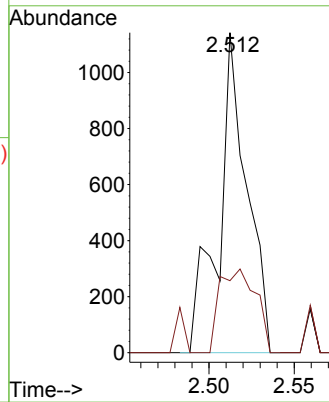
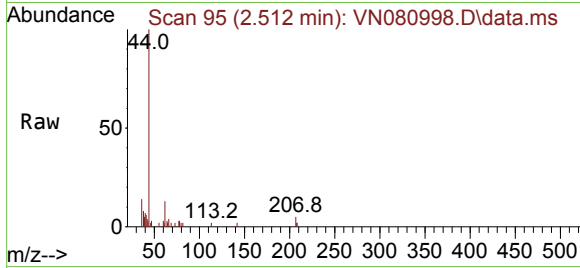




#4
 Vinyl Chloride
 Concen: 0.254 ug/l
 RT: 2.512 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VN080998.D
 Acq: 12 Feb 2024 11:09

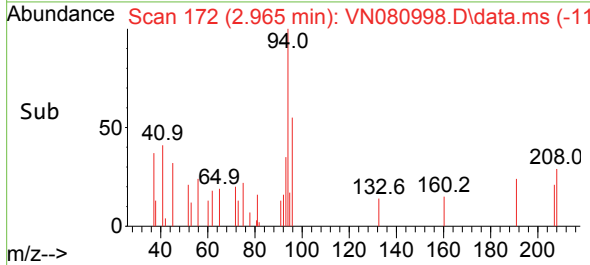
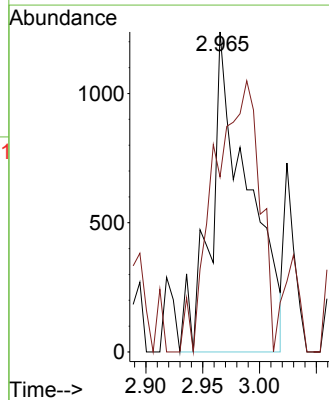
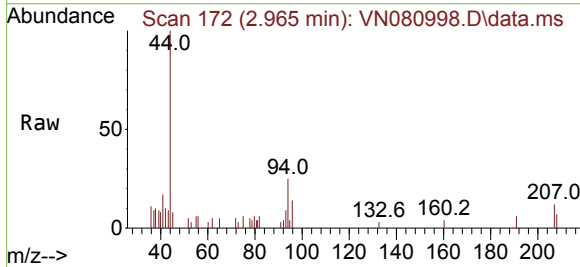
Instrument :
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 ClientSampleId :
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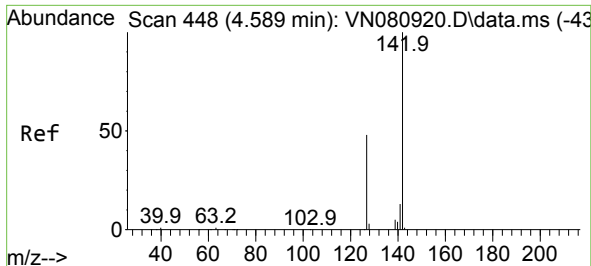
Tgt Ion: 62 Resp: 1321
 Ion Ratio Lower Upper
 62 100
 64 22.5 22.7 34.1#



#5
 Bromomethane
 Concen: 0.840 ug/l
 RT: 2.965 min Scan# 172
 Delta R.T. 0.018 min
 Lab File: VN080998.D
 Acq: 12 Feb 2024 11:09

Tgt Ion: 94 Resp: 2808
 Ion Ratio Lower Upper
 94 100
 96 54.7 69.2 103.8#

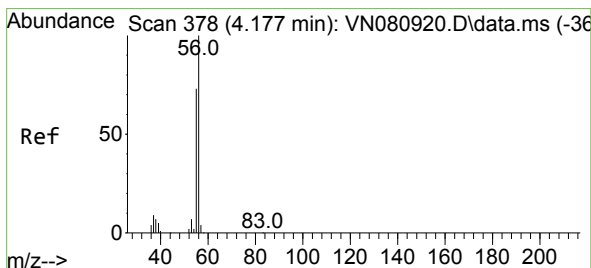
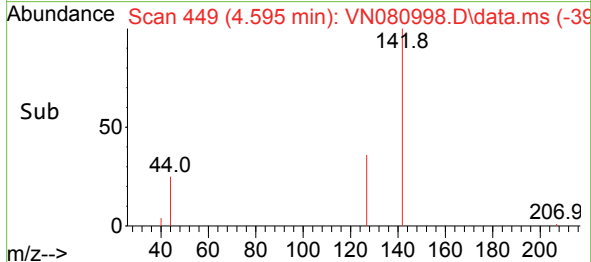
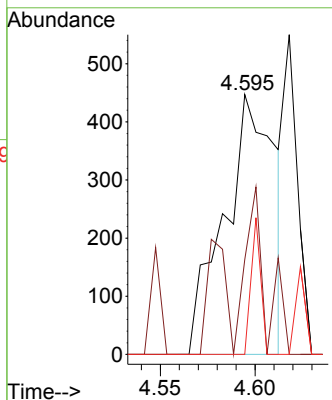
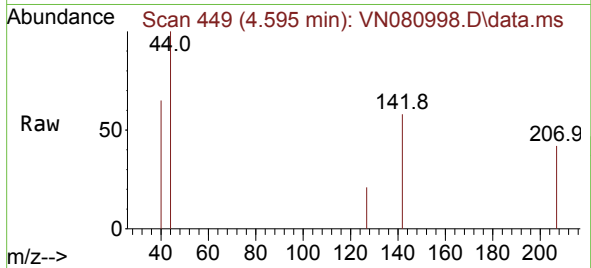




#10
Methyl Iodide
Concen: 0.223 ug/l
RT: 4.595 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

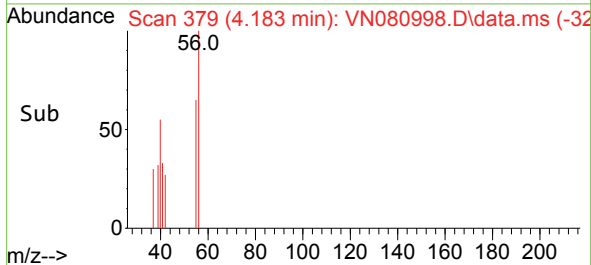
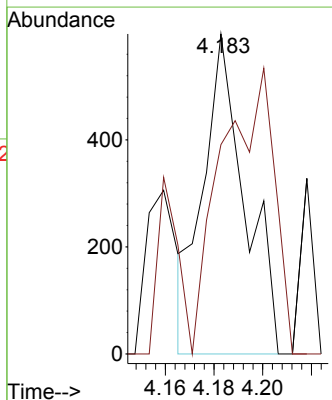
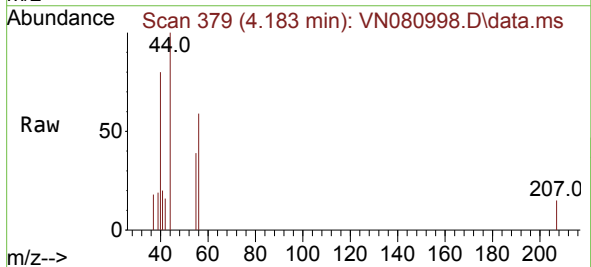
Instrument :
MSVOA_N
ClientSampleId :
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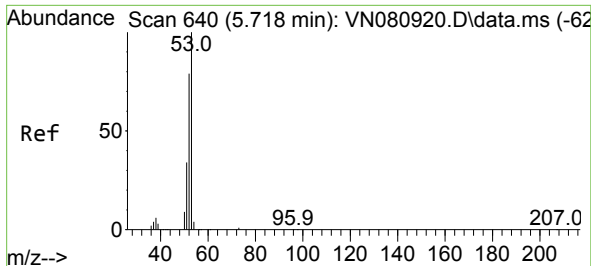
Tgt Ion:142 Resp: 824
Ion Ratio Lower Upper
142 100
127 36.5 37.0 55.4#
141 0.0 12.5 18.7#



#13
Acrolein
Concen: 0.923 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

Tgt Ion: 56 Resp: 710
Ion Ratio Lower Upper
56 100
55 112.5 55.3 82.9#

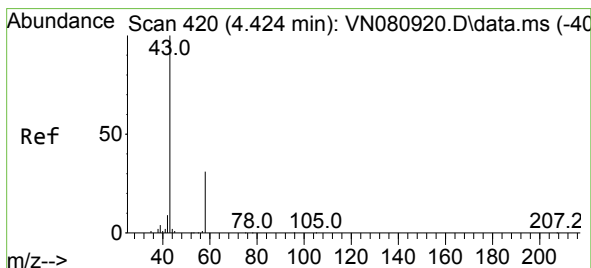
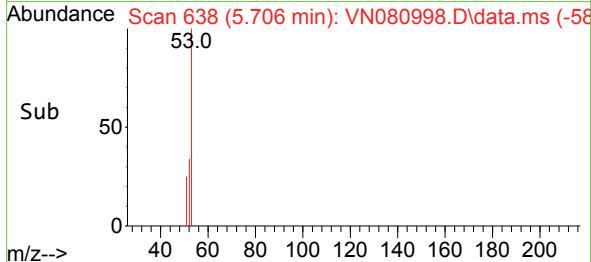
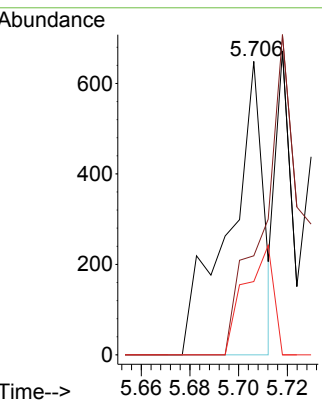
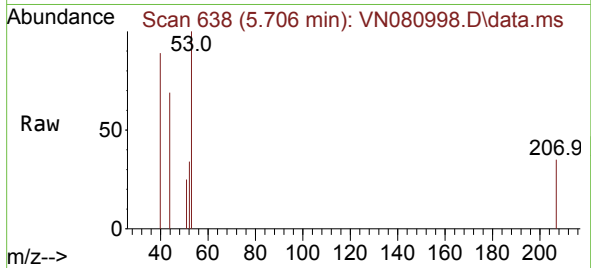




#15
Acrylonitrile
Concen: 0.383 ug/l
RT: 5.706 min Scan# 61
Delta R.T. -0.012 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

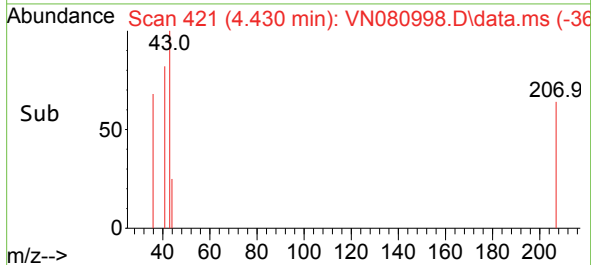
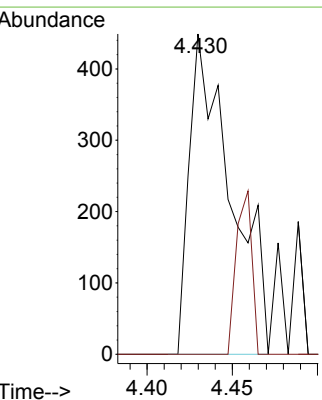
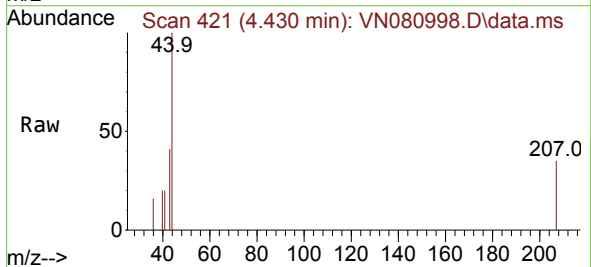
Instrument :
MSVOA_N
ClientSampleId :
VN0212WBL01

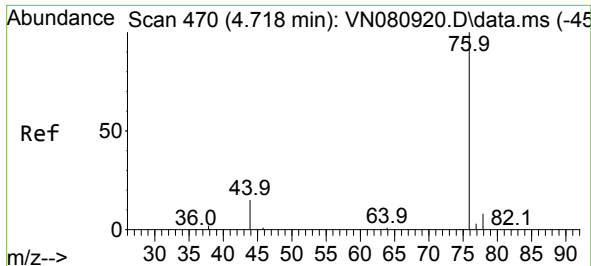
Tgt Ion: 53 Resp: 639
Ion Ratio Lower Upper
53 100
52 156.5 64.8 97.2#
51 30.8 26.9 40.3



#16
Acetone
Concen: 0.524 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

Tgt Ion: 43 Resp: 764
Ion Ratio Lower Upper
43 100
58 0.0 24.8 37.2#

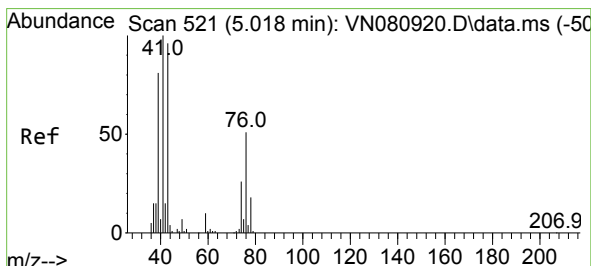
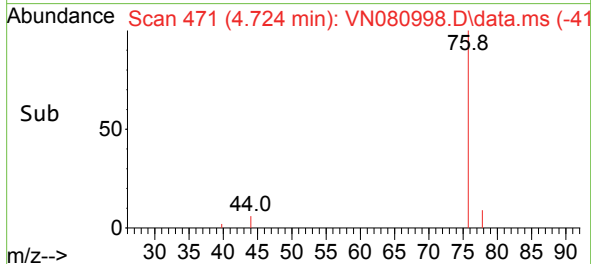
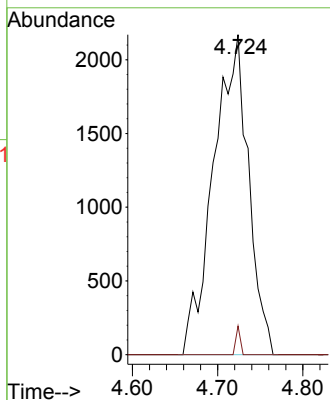
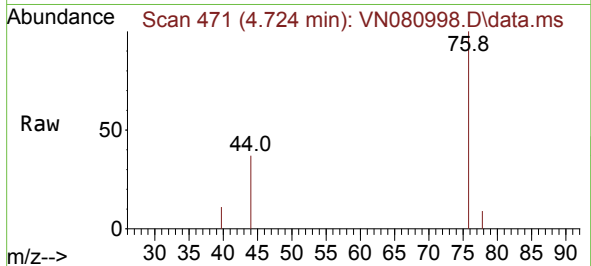




#17
Carbon Disulfide
Concen: 0.651 ug/l
RT: 4.724 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

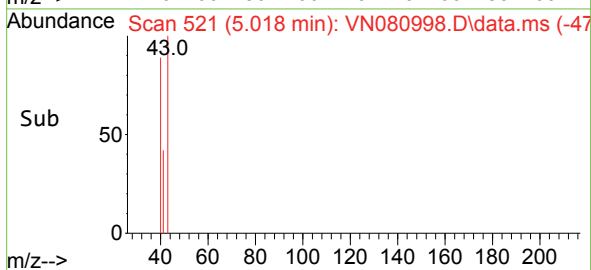
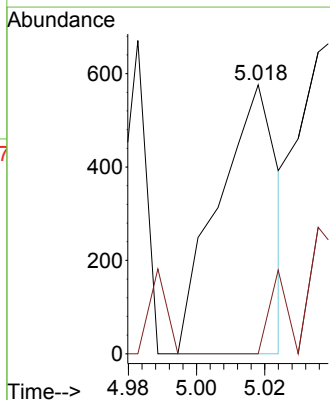
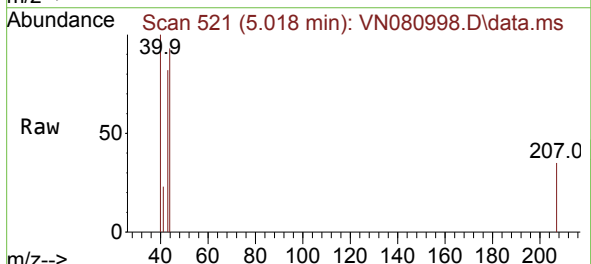
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ClientSampleId :
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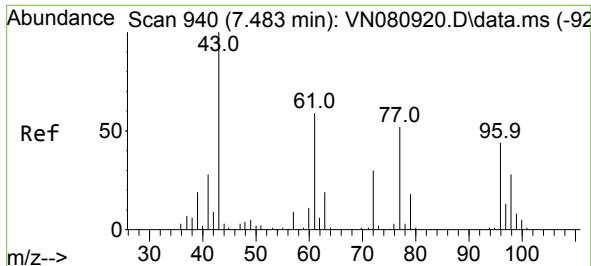
Tgt Ion: 76 Resp: 6182
Ion Ratio Lower Upper
76 100
78 8.9 6.3 9.5



#18
Methyl Acetate
Concen: Below Cal
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

Tgt Ion: 43 Resp: 698
Ion Ratio Lower Upper
43 100
74 0.0 17.3 25.9#

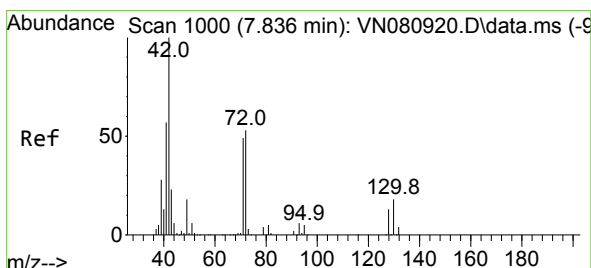
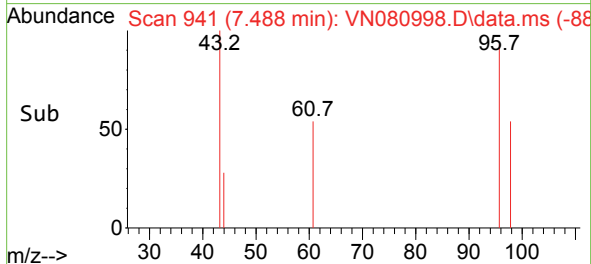
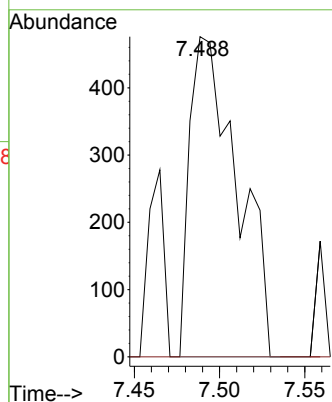
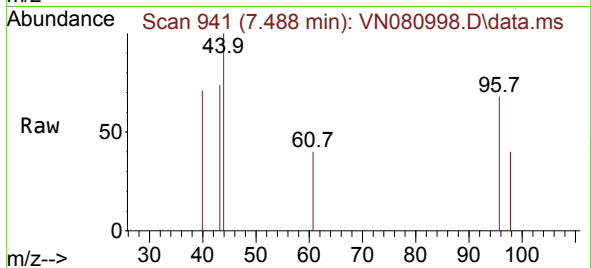




#25
2-Butanone
Concen: 0.395 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

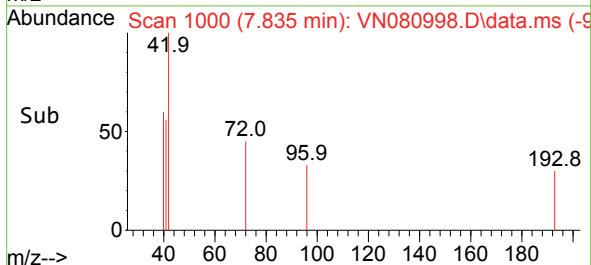
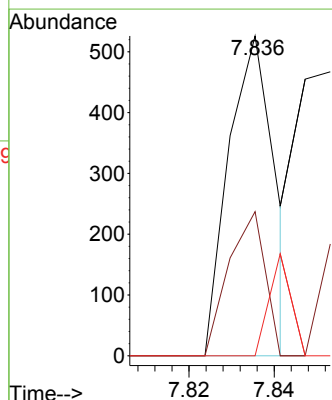
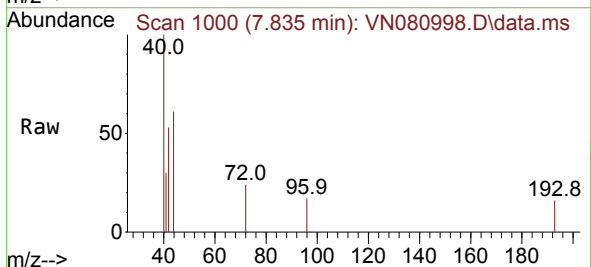
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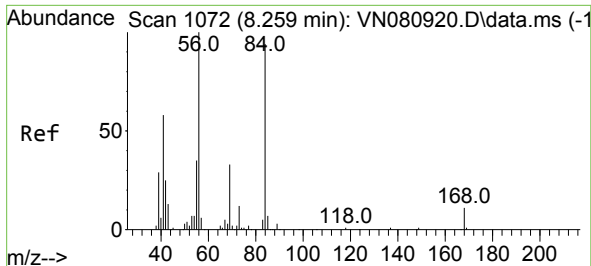
Tgt Ion: 43 Resp: 924
Ion Ratio Lower Upper
43 100
72 0.0 19.5 29.3#



#29
Tetrahydrofuran
Concen: 0.280 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

Tgt Ion: 42 Resp: 400
Ion Ratio Lower Upper
42 100
72 35.0 31.1 46.7
71 14.8 28.3 42.5#

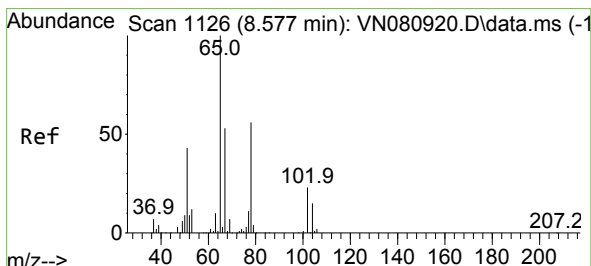
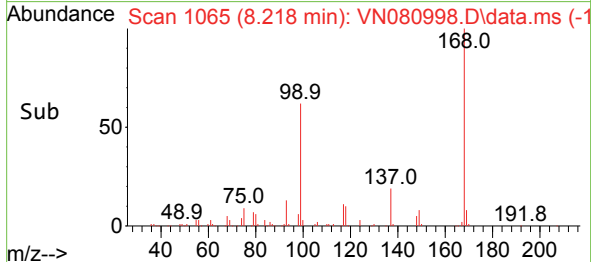
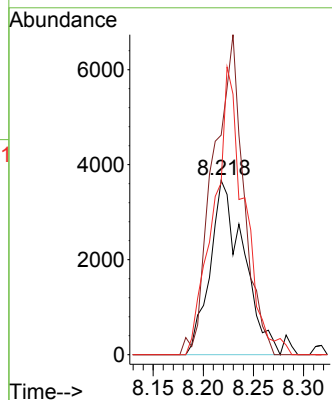
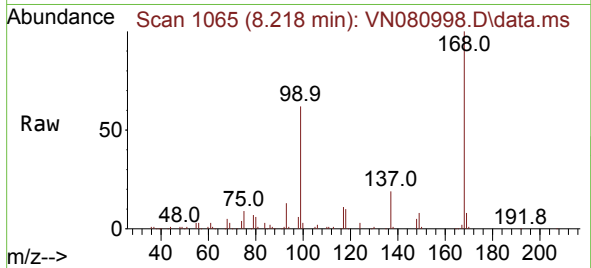




#31
Cyclohexane
Concen: 1.408 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.041 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

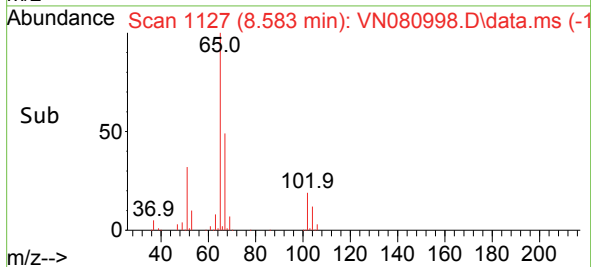
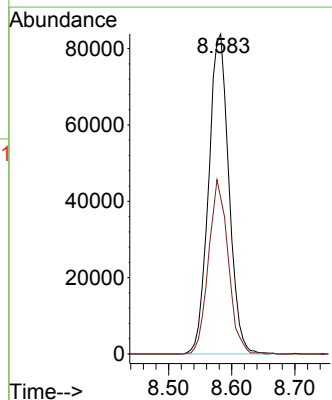
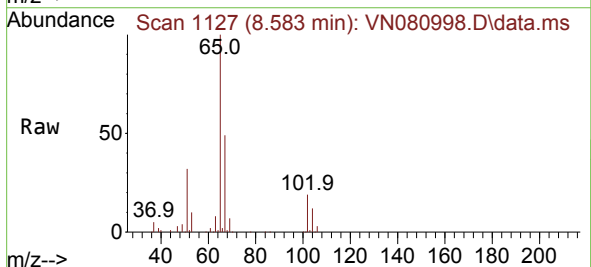
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ClientSampleId :
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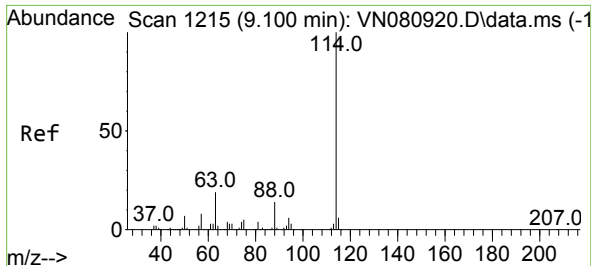
Tgt Ion: 56 Resp: 8523
Ion Ratio Lower Upper
56 100
69 125.9 20.1 30.1#
84 112.9 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 42.191 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

Tgt Ion: 65 Resp: 186931
Ion Ratio Lower Upper
65 100
67 52.7 0.0 102.4

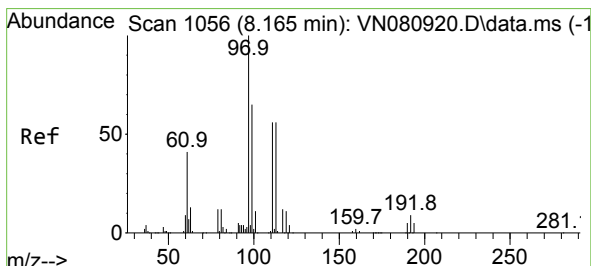
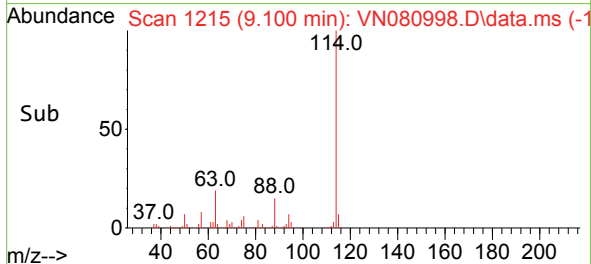
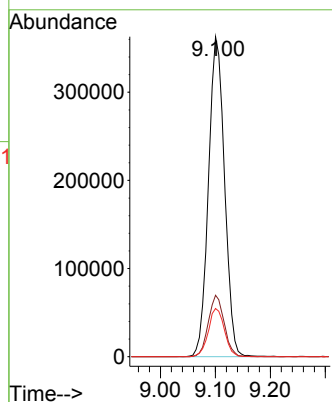
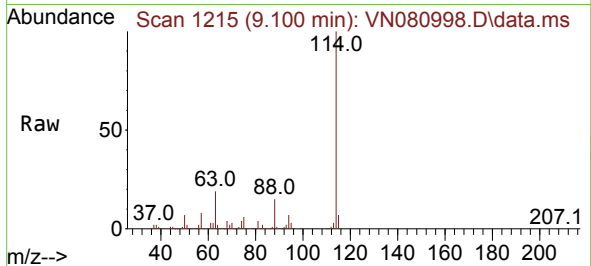




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

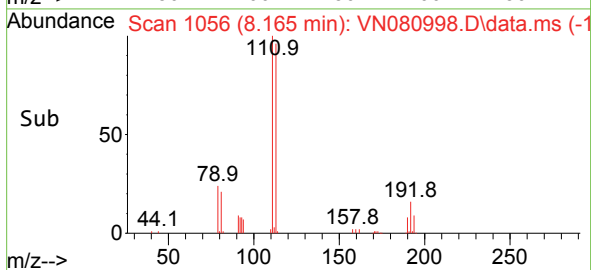
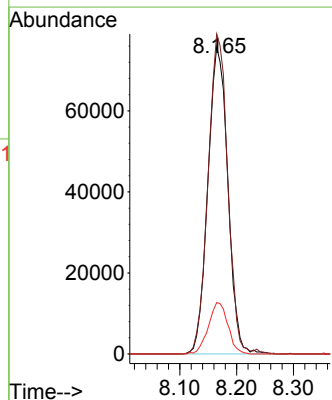
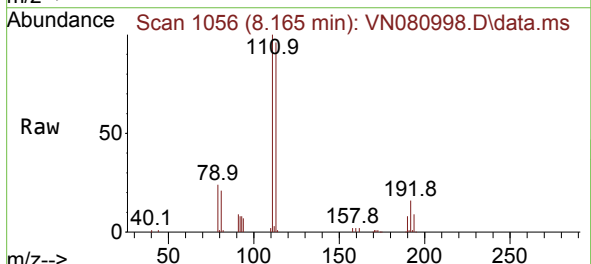
Instrument :
MSVOA_N
ClientSampleId :
VN0212WBL01

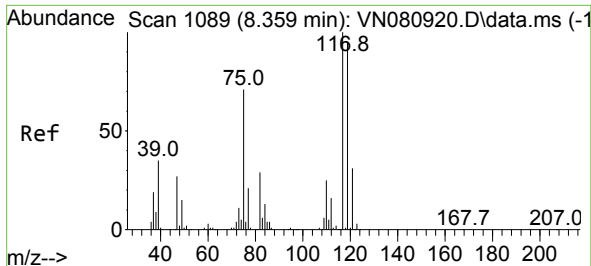
Tgt Ion:114 Resp: 738092
Ion Ratio Lower Upper
114 100
63 19.2 0.0 48.0
88 15.0 0.0 34.8



#35
Dibromofluoromethane
Concen: 46.658 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

Tgt Ion:113 Resp: 184792
Ion Ratio Lower Upper
113 100
111 102.1 82.2 123.4
192 16.4 12.5 18.7

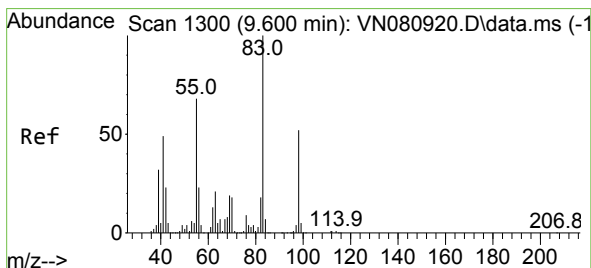
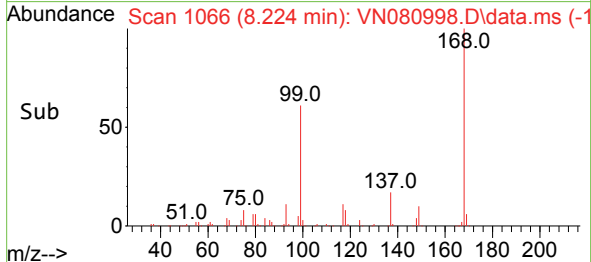
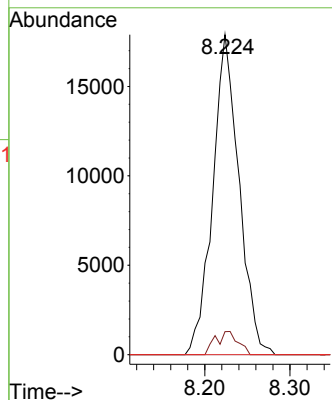
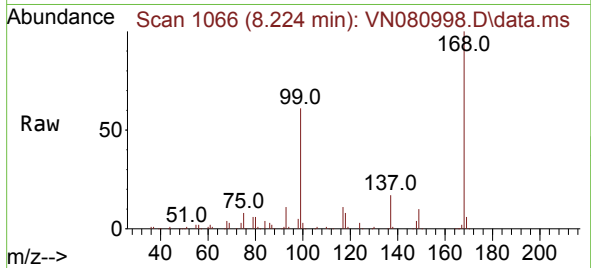




#38
Carbon Tetrachloride
Concen: 6.348 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

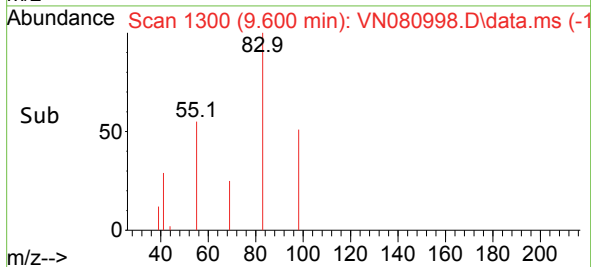
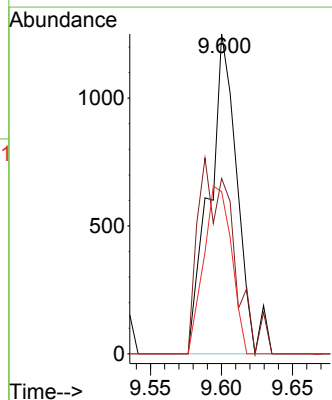
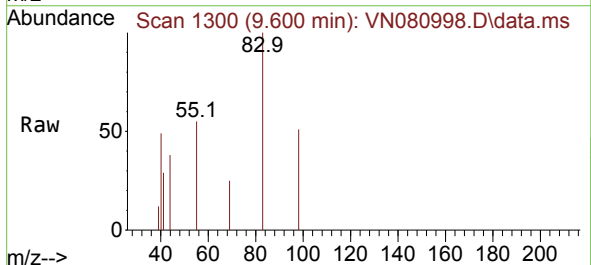
Instrument :
MSVOA_N
ClientSampleId :
VN0212WBL01

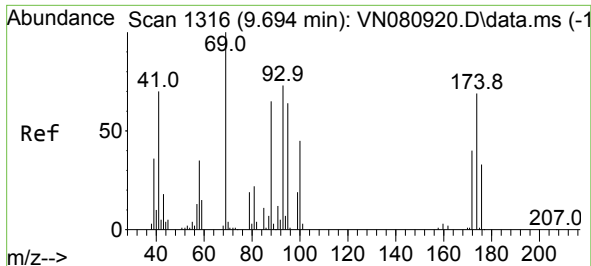
Tgt Ion:117 Resp: 38343
Ion Ratio Lower Upper
117 100
119 7.2 73.4 110.2#
121 0.0 24.4 36.6#



#39
Methylcyclohexane
Concen: 0.261 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

Tgt Ion: 83 Resp: 1712
Ion Ratio Lower Upper
83 100
55 54.8 65.7 98.5#
98 50.7 33.8 50.6#





#49

1,4-Dioxane

Concen: 2.697 ug/l

RT: 9.700 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN080998.D

Acq: 12 Feb 2024 11:09

Instrument :

MSVOA_N

ClientSampleId :

VN0212WBL01

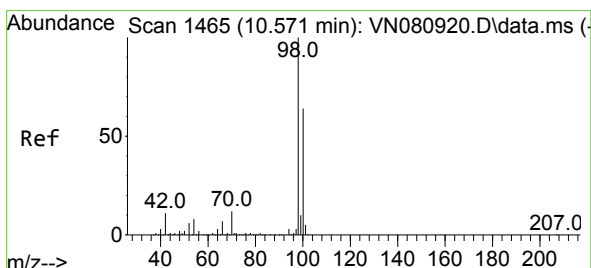
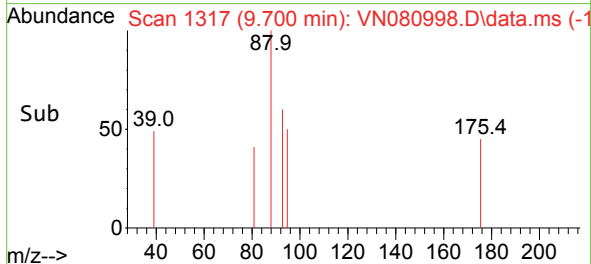
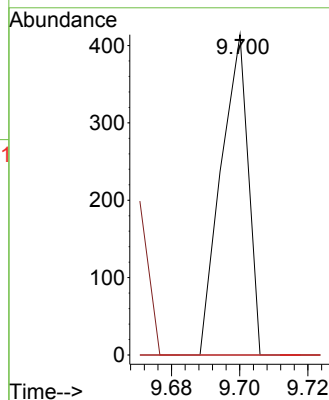
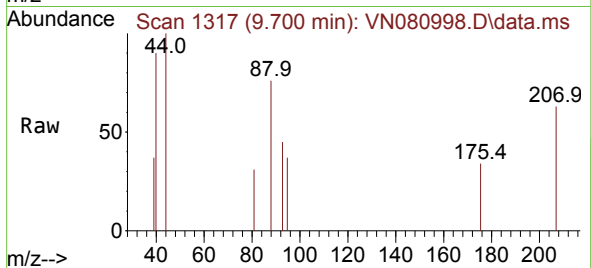
Tgt Ion: 88 Resp: 230

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 0.0 63.9 95.9#



#50

Toluene-d8

Concen: 46.639 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN080998.D

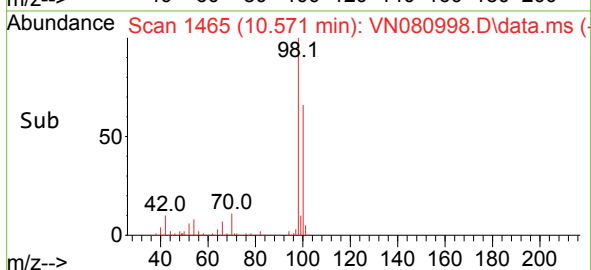
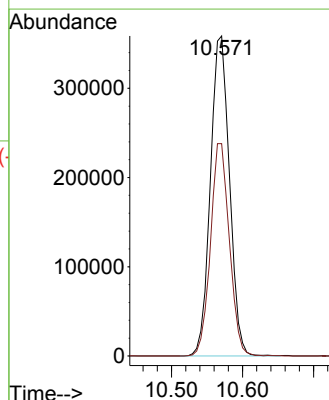
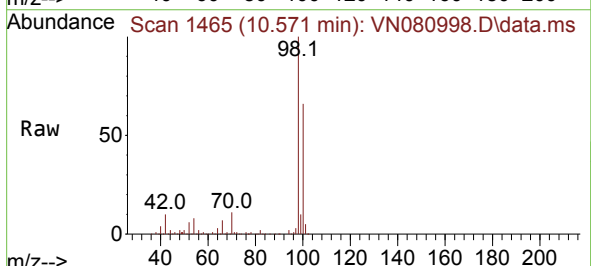
Acq: 12 Feb 2024 11:09

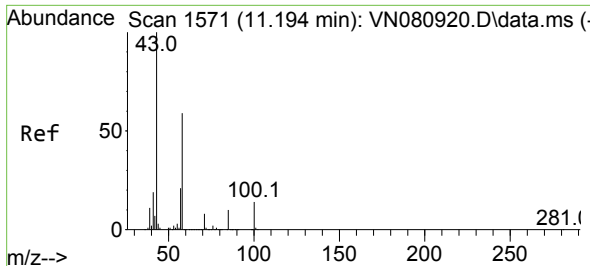
Tgt Ion: 98 Resp: 668138

Ion Ratio Lower Upper

98 100

100 65.8 51.4 77.0

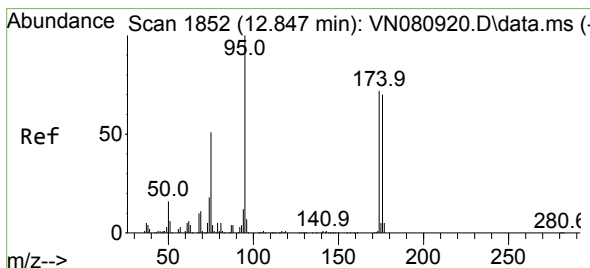
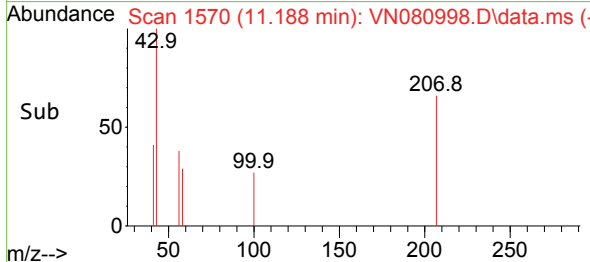
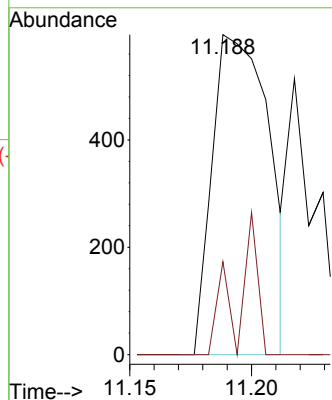
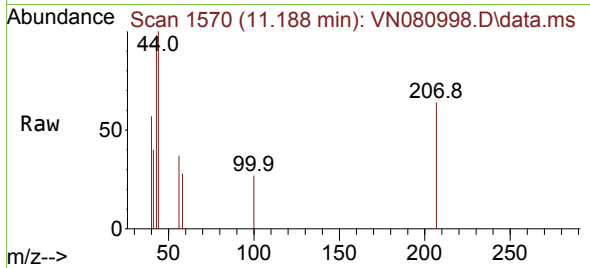




#59
2-Hexanone
Concen: 0.259 ug/l
RT: 11.188 min Scan# 1118
Delta R.T. -0.006 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

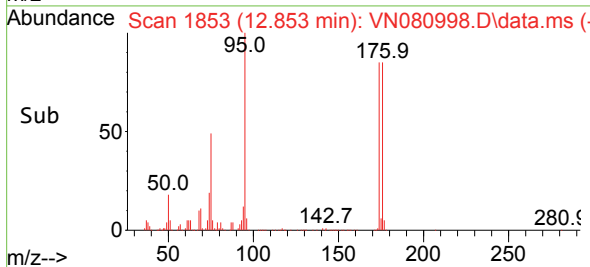
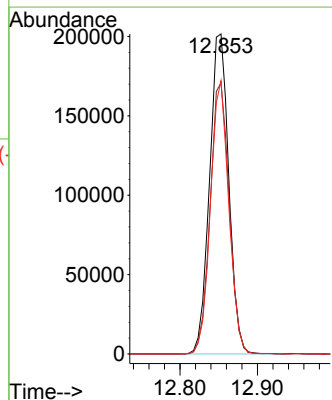
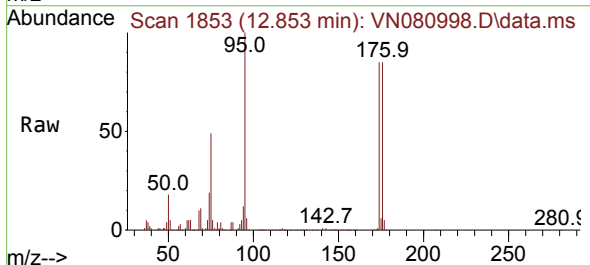
Instrument :
MSVOA_N
ClientSampleId :
VN0212WBL01

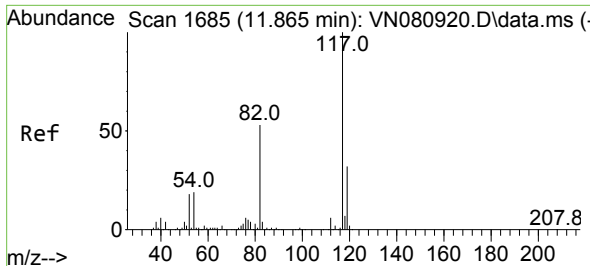
Tgt Ion: 43 Resp: 969
Ion Ratio Lower Upper
43 100
58 16.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 66.710 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

Tgt Ion: 95 Resp: 347172
Ion Ratio Lower Upper
95 100
174 84.3 0.0 120.4
176 81.4 0.0 121.0

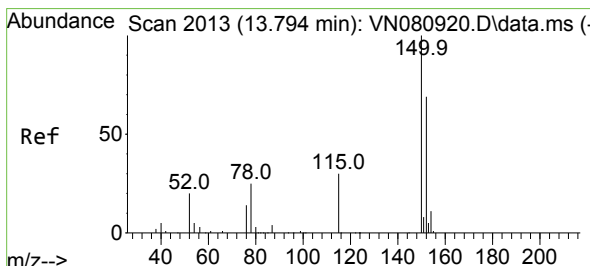
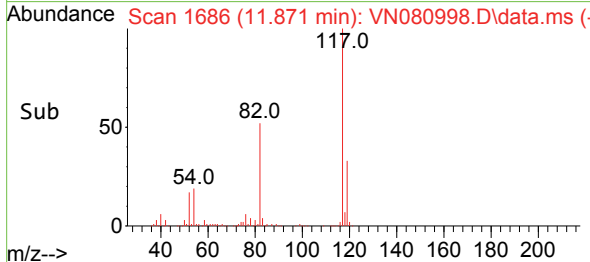
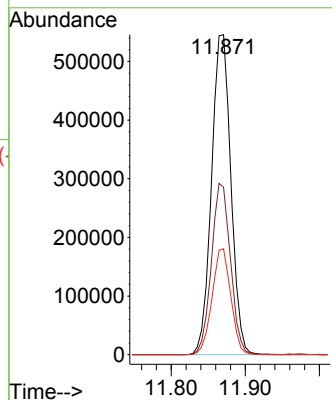
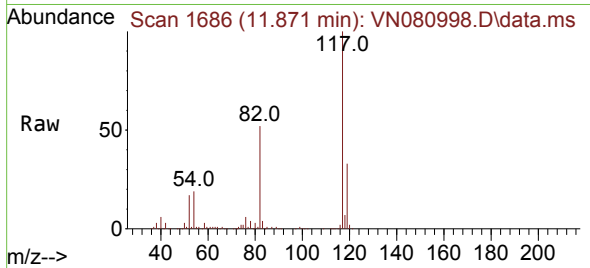




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

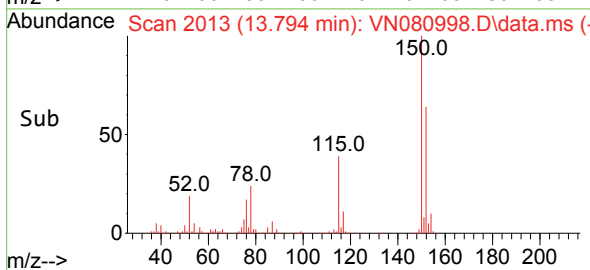
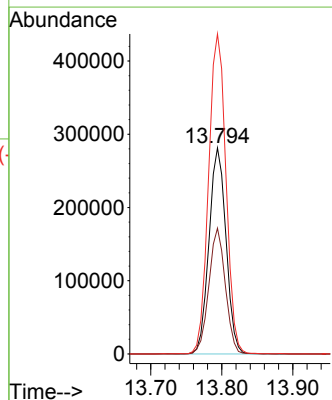
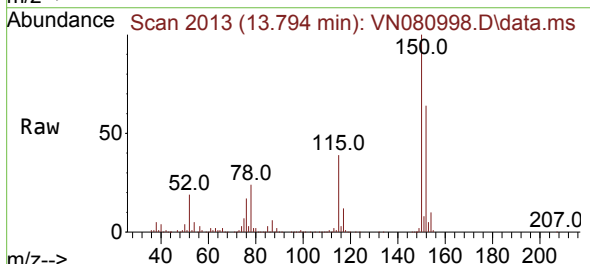
Instrument :
MSVOA_N
ClientSampleId :
VN0212WBL01

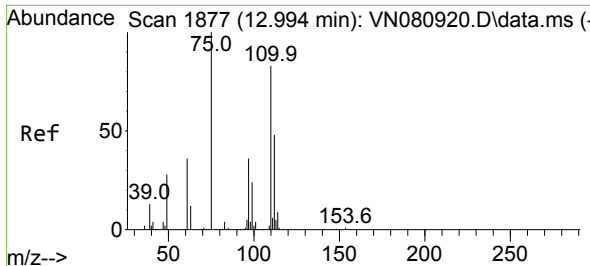
Tgt Ion:117 Resp: 990929
Ion Ratio Lower Upper
117 100
82 52.3 52.7 79.1#
119 33.1 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

Tgt Ion:152 Resp: 468702
Ion Ratio Lower Upper
152 100
115 59.4 32.3 96.8
150 158.4 0.0 339.8

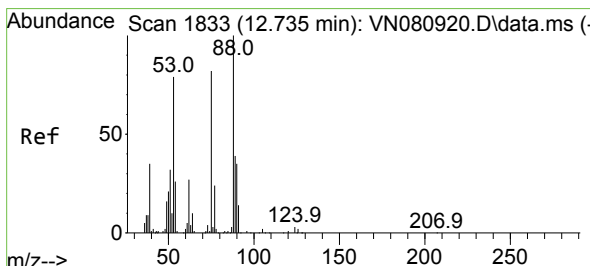
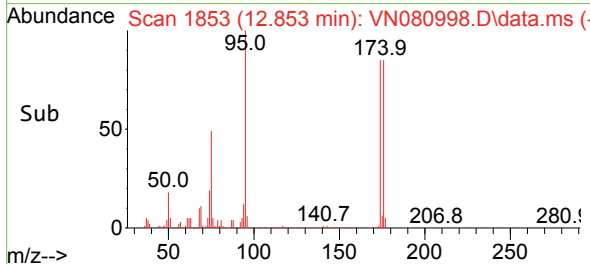
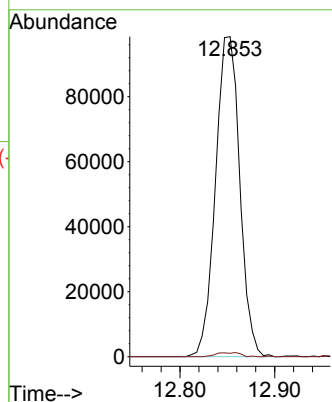
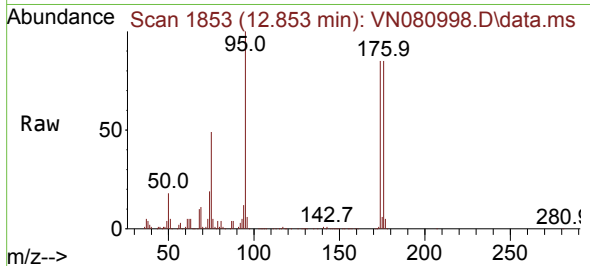




#76
1,2,3-Trichloropropane
Concen: 18.328 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

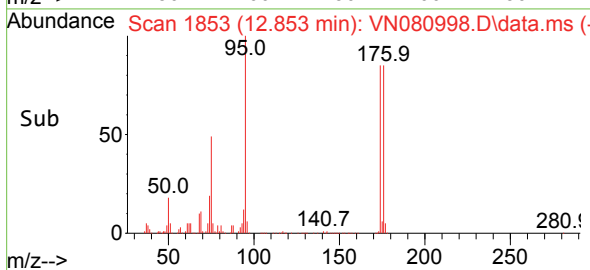
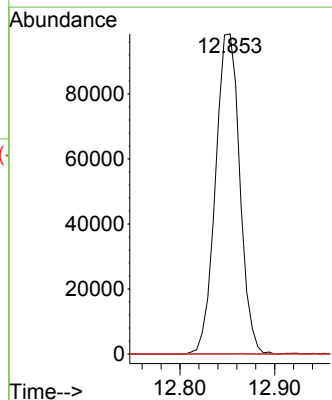
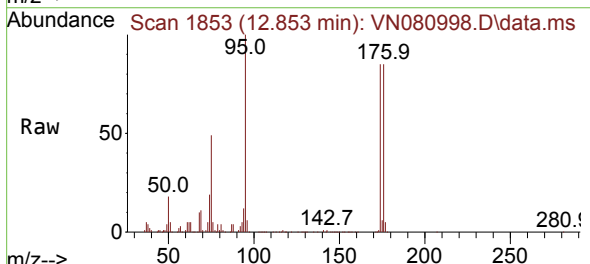
Instrument :
MSVOA_N
ClientSampleId :
VN0212WBL01

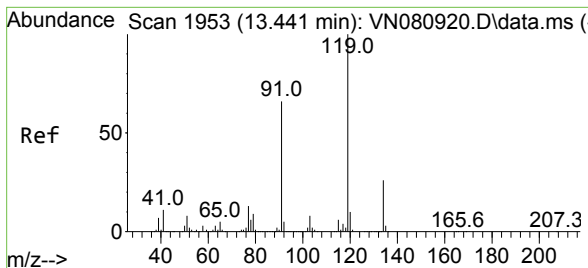
Tgt Ion: 75 Resp: 175155
Ion Ratio Lower Upper
75 100
77 1.3 91.0 272.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 49.796 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

Tgt Ion: 75 Resp: 175155
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.2#
89 0.0 33.4 50.0#





#83

tert-Butylbenzene

Concen: 0.231 ug/l

RT: 13.447 min Scan# 1953

Delta R.T. 0.006 min

Lab File: VN080998.D

Acq: 12 Feb 2024 11:09

Instrument :

MSVOA_N

ClientSampleId :

VN0212WBL01

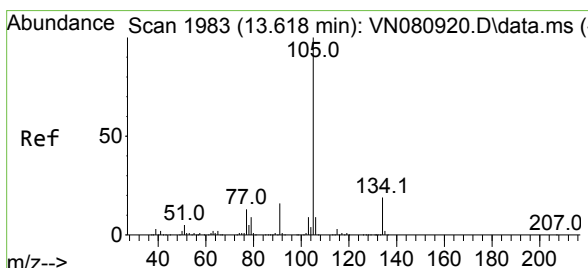
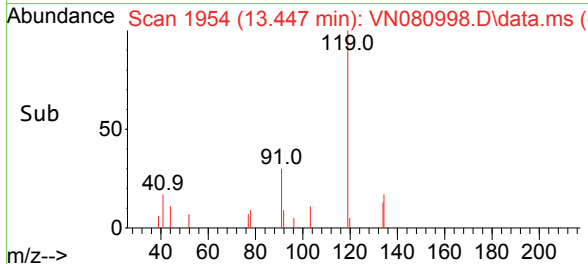
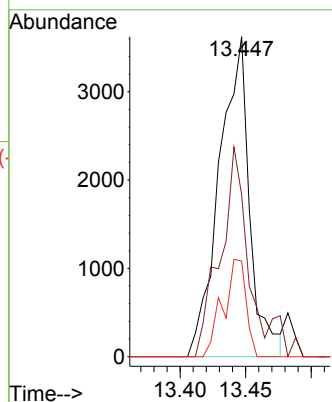
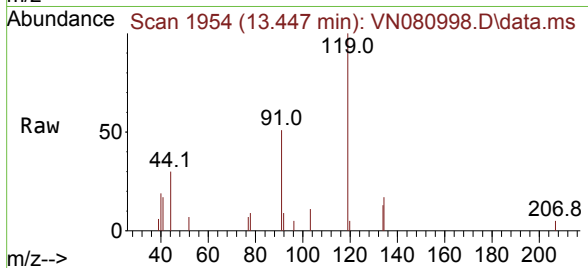
Tgt Ion:119 Resp: 5825

Ion Ratio Lower Upper

119 100

91 64.1 36.8 110.4

134 22.9 12.4 37.4



#85

sec-Butylbenzene

Concen: 0.294 ug/l

RT: 13.623 min Scan# 1984

Delta R.T. 0.006 min

Lab File: VN080998.D

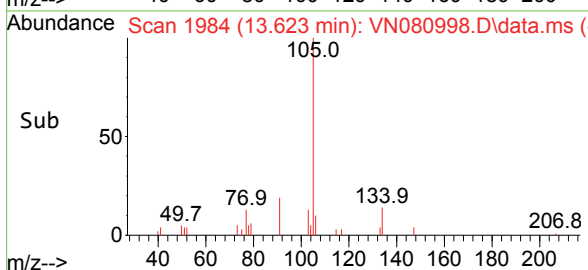
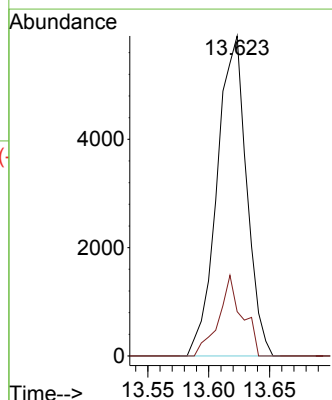
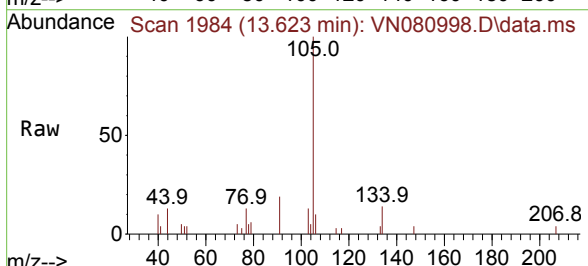
Acq: 12 Feb 2024 11:09

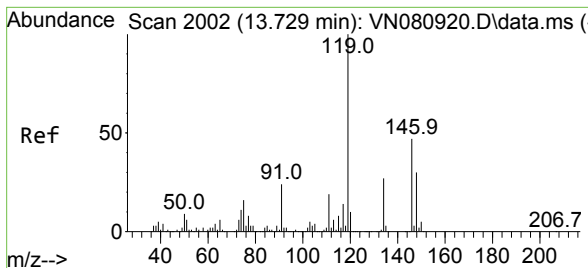
Tgt Ion:105 Resp: 9972

Ion Ratio Lower Upper

105 100

134 20.1 8.6 25.8

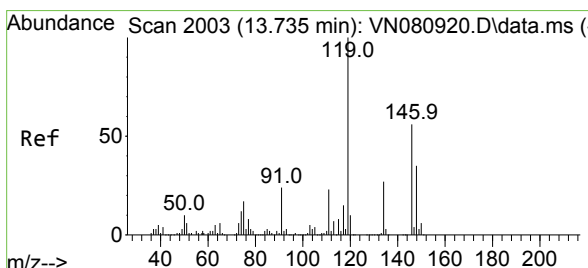
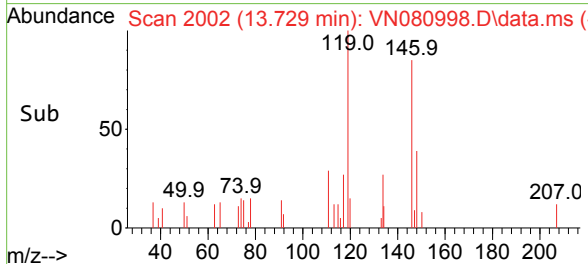
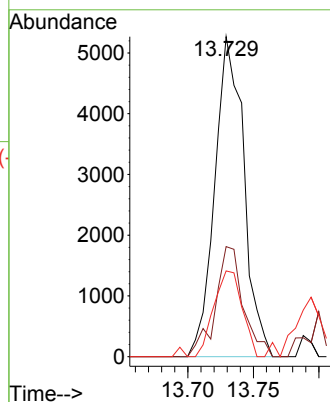
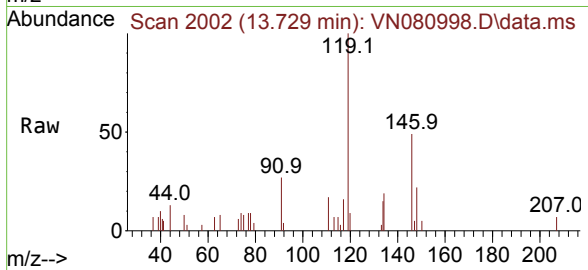




#86
 p-Isopropyltoluene
 Concen: 0.283 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN080998.D
 Acq: 12 Feb 2024 11:09

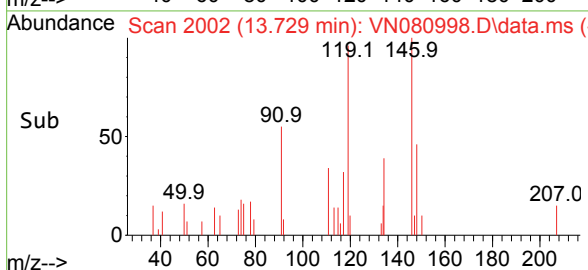
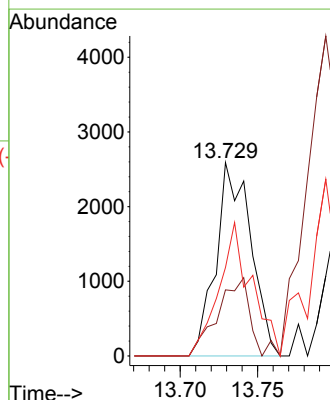
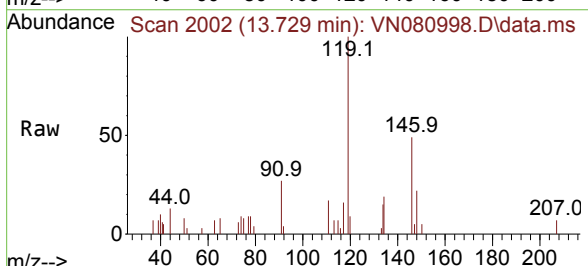
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212WBL01

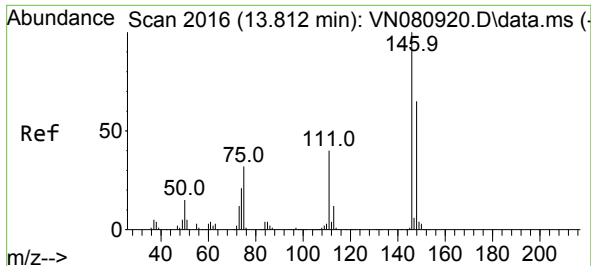
Tgt Ion:	119	Resp:	8114
Ion	Ratio	Lower	Upper
119	100		
134	32.9	12.4	37.2
91	26.1	13.5	40.4



#87
 1,3-Dichlorobenzene
 Concen: 0.247 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.006 min
 Lab File: VN080998.D
 Acq: 12 Feb 2024 11:09

Tgt Ion:	146	Resp:	4043
Ion	Ratio	Lower	Upper
146	100		
111	36.5	23.9	71.7
148	64.3	32.6	97.7

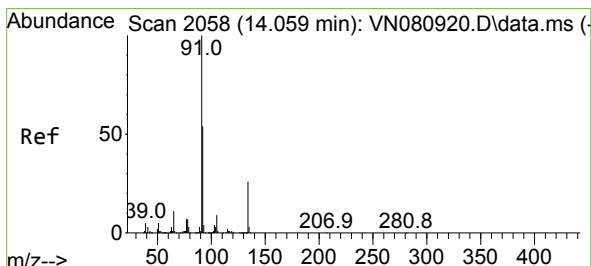
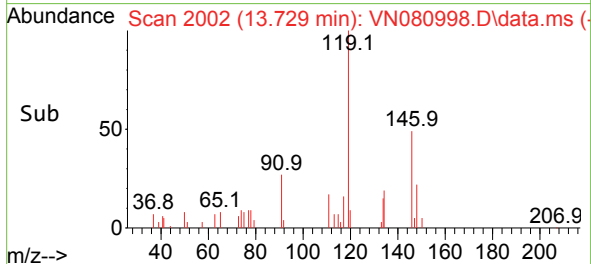
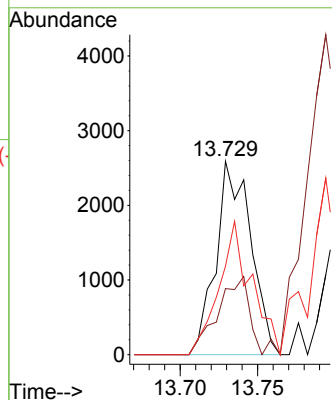
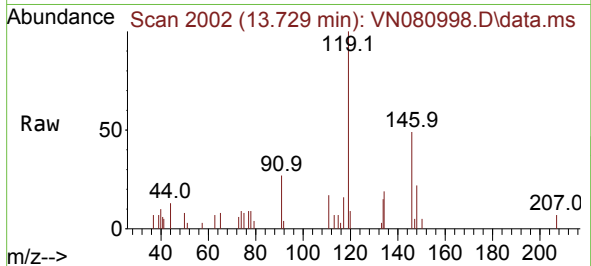




#88
1,4-Dichlorobenzene
Concen: 0.243 ug/l
RT: 13.729 min Scan# 2016
Delta R.T. -0.082 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

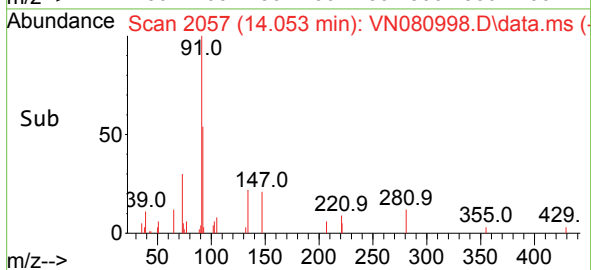
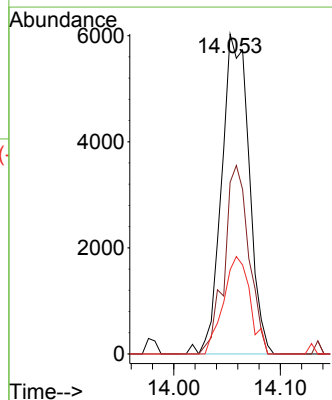
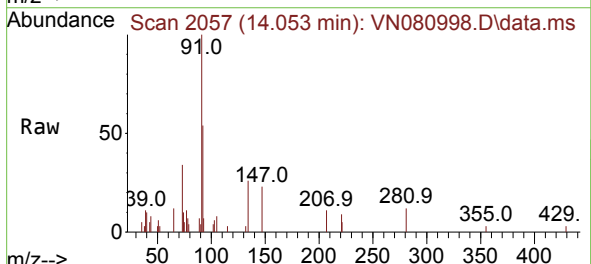
Instrument :
MSVOA_N
ClientSampleId :
VN0212WBL01

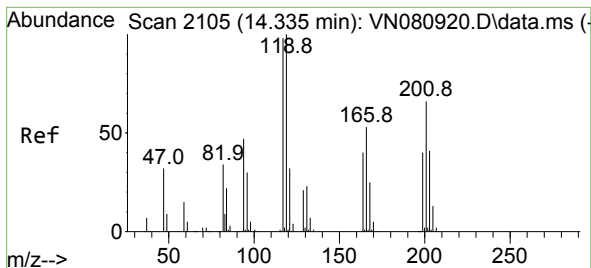
Tgt Ion:146 Resp: 4043
Ion Ratio Lower Upper
146 100
111 36.5 22.6 67.7
148 64.3 31.9 95.5



#89
n-Butylbenzene
Concen: 0.423 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.006 min
Lab File: VN080998.D
Acq: 12 Feb 2024 11:09

Tgt Ion: 91 Resp: 10716
Ion Ratio Lower Upper
91 100
92 53.1 26.7 80.1
134 30.0 10.8 32.4





#90

Hexachloroethane

Concen: 0.222 ug/l

RT: 14.341 min Scan# 2106

Delta R.T. 0.006 min

Lab File: VN080998.D

Acq: 12 Feb 2024 11:09

Instrument :

MSVOA_N

ClientSampleId :

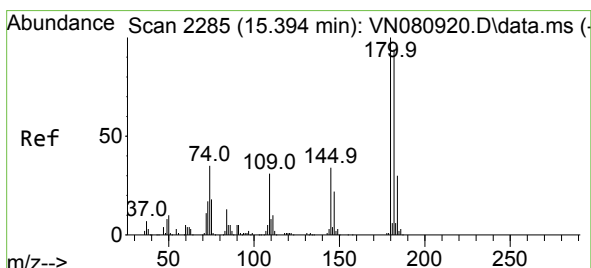
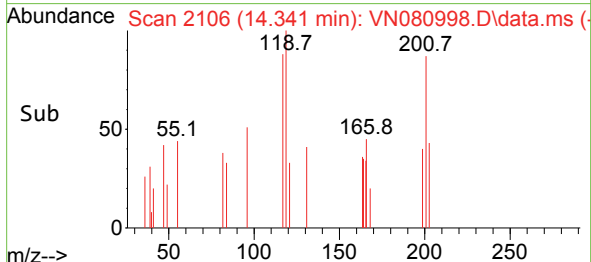
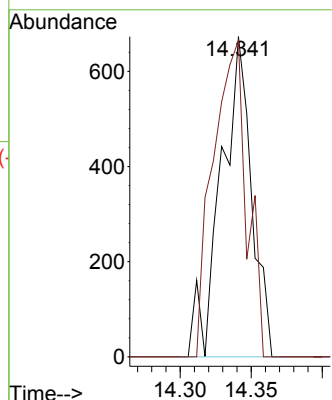
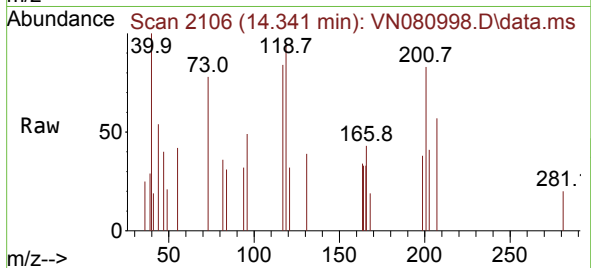
VN0212WBL01

Tgt Ion:117 Resp: 1005

Ion Ratio Lower Upper

117 100

201 109.1 30.0 90.0#



#93

1,2,4-Trichlorobenzene

Concen: 0.799 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. -0.000 min

Lab File: VN080998.D

Acq: 12 Feb 2024 11:09

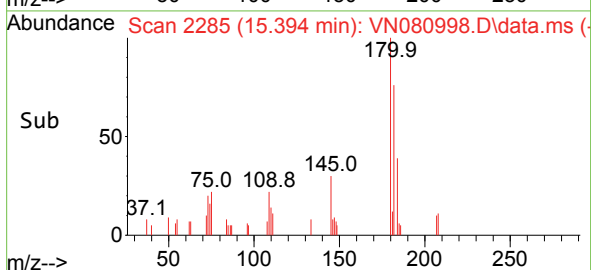
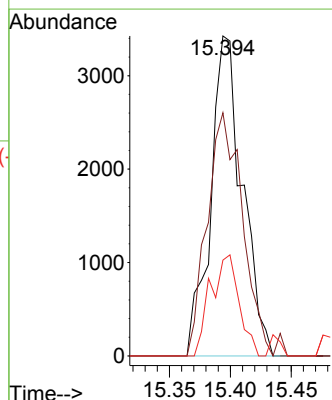
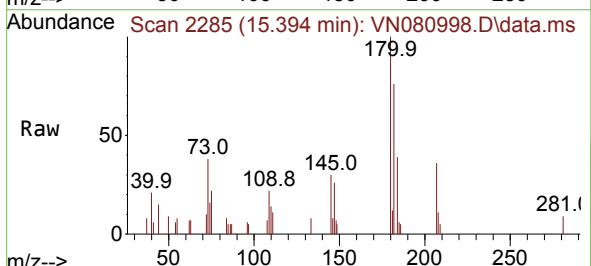
Tgt Ion:180 Resp: 6205

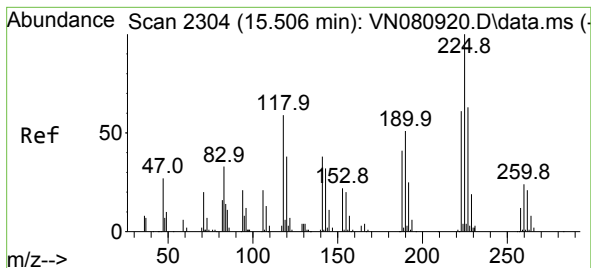
Ion Ratio Lower Upper

180 100

182 84.6 46.6 139.7

145 28.5 16.8 50.3





#94

Hexachlorobutadiene

Concen: 1.482 ug/l

RT: 15.494 min Scan# 21

Delta R.T. -0.012 min

Lab File: VN080998.D

Acq: 12 Feb 2024 11:09

Instrument :

MSVOA_N

ClientSampleId :

VN0212WBL01

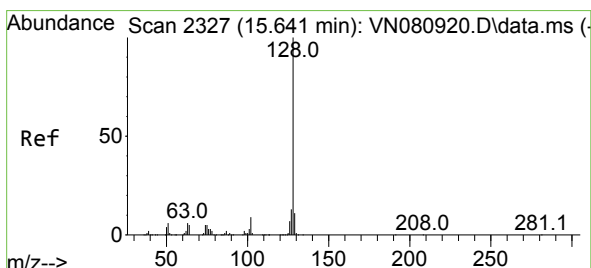
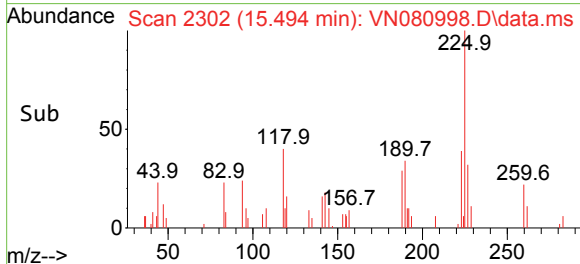
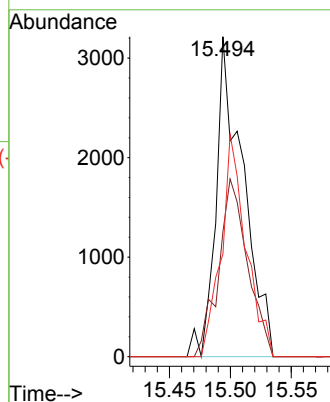
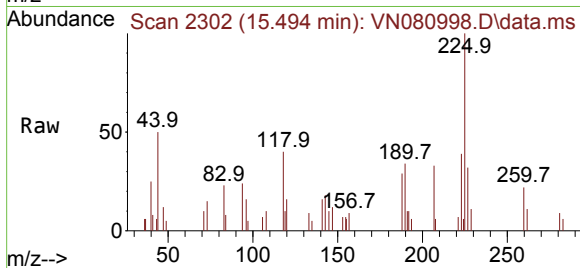
Tgt Ion:225 Resp: 4986

Ion Ratio Lower Upper

225 100

223 59.4 33.3 99.8

227 63.5 33.1 99.2



#95

Naphthalene

Concen: 0.644 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN080998.D

Acq: 12 Feb 2024 11:09

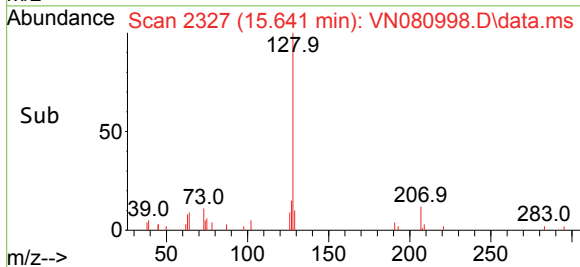
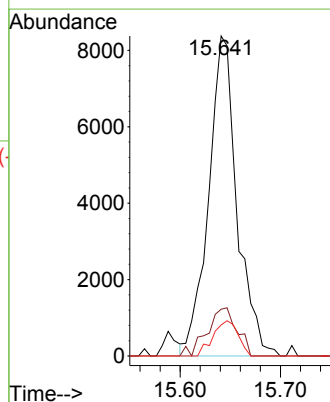
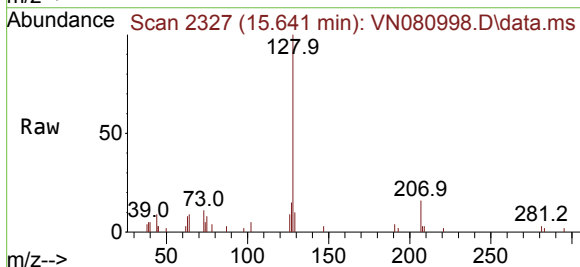
Tgt Ion:128 Resp: 16508

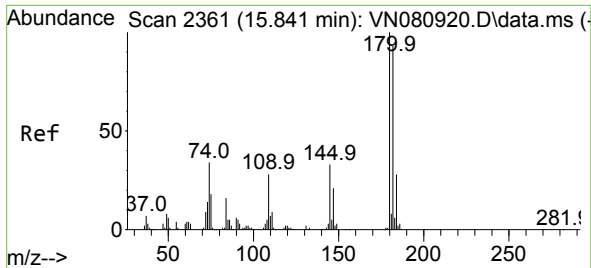
Ion Ratio Lower Upper

128 100

127 15.8 10.0 15.0#

129 9.7 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.759 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN080998.D
 Acq: 12 Feb 2024 11:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212WBL01

Tgt Ion:	180	Resp:	5801
Ion	Ratio	Lower	Upper
180	100		
182	100.9	46.5	139.3
145	45.0	17.8	53.4

