

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072123\
 Data File : VN078618.D
 Acq On : 21 Jul 2023 17:01
 Operator : JC\MD
 Sample : 03704-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SAMPLE-MANAG

Quant Time: Jul 21 23:26:49 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)

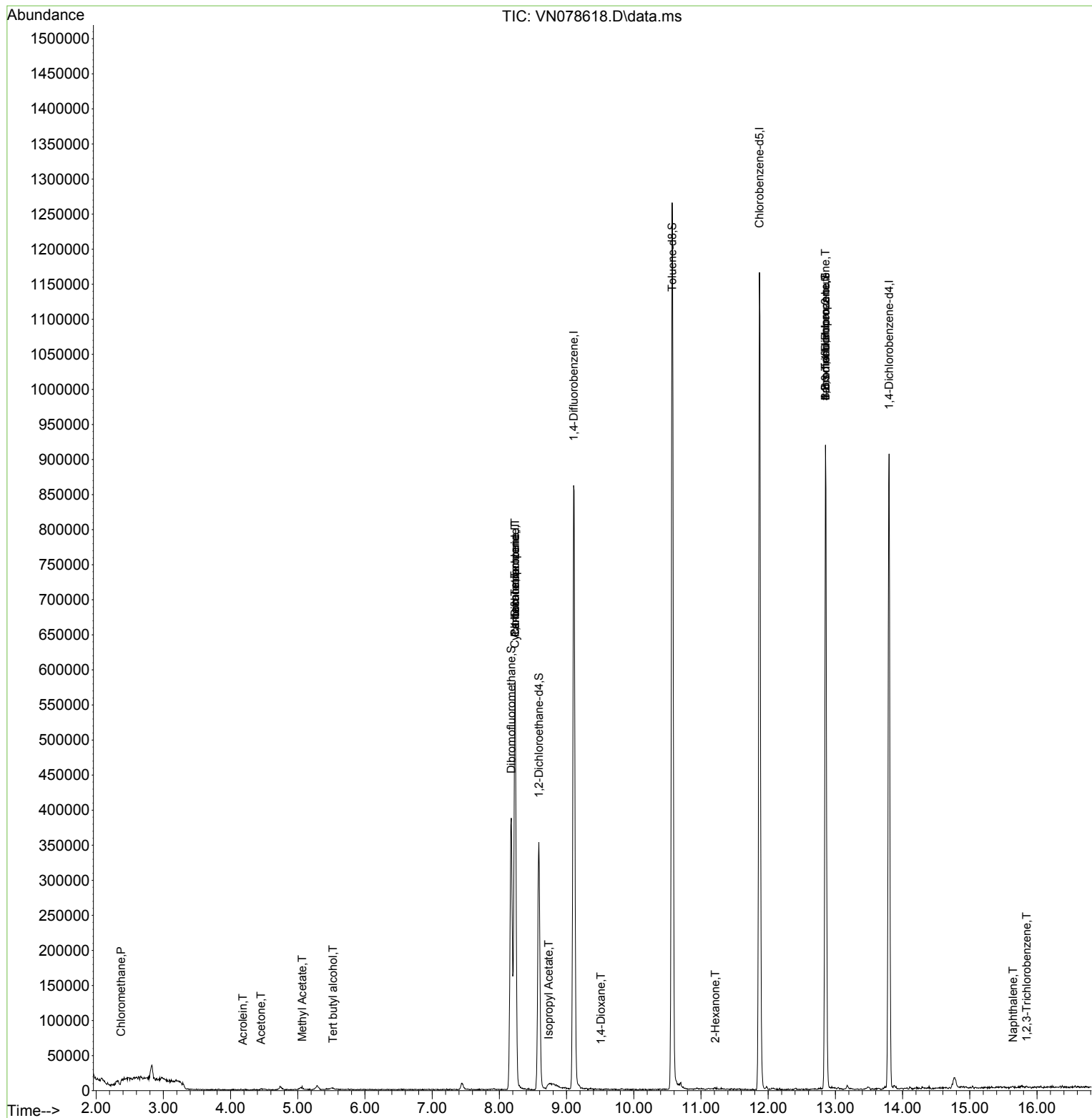
Internal Standards						
1) Pentafluorobenzene	8.235	168	426961	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	781387	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	716945	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	254050	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	288270	50.363	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.720%	
35) Dibromofluoromethane	8.177	113	279381	52.671	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.340%	
50) Toluene-d8	10.571	98	925100	46.167	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 92.340%	
62) 4-Bromofluorobenzene	12.853	95	314870	51.015	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.020%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	2450	0.431	ug/l #	42
5) Bromomethane	2.971	94	3487	Below Cal	#	67
6) Chloroethane	3.118	64	736	Below Cal	#	54
11) Tert butyl alcohol	5.524	59	712	0.807	ug/l #	72
13) Acrolein	4.183	56	201	0.231	ug/l #	59
16) Acetone	4.453	43	2877	1.614	ug/l #	79
18) Methyl Acetate	5.065	43	7664	1.015	ug/l #	49
20) Methylene Chloride	5.283	84	3680	Below Cal	#	86
31) Cyclohexane	8.229	56	9662	1.249	ug/l #	56
36) 1,1-Dichloropropene	8.235	75	33339	4.353	ug/l #	49
38) Carbon Tetrachloride	8.235	117	44633	5.362	ug/l #	15
43) Isopropyl Acetate	8.735	43	5034	0.479	ug/l #	49
49) 1,4-Dioxane	9.512	88	71	0.669	ug/l #	1
59) 2-Hexanone	11.212	43	1055	0.237	ug/l #	27
71) Bromoform	12.853	173	2287	0.548	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.935	83	517	Below Cal	#	41
76) 1,2,3-Trichloropropane	12.853	75	165822	27.004	ug/l #	1
77) Bromobenzene	12.982	156	163	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	165822	70.961	ug/l #	15
90) Hexachloroethane	14.335	117	86	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.964	75	73	Below Cal	#	4
94) Hexachlorobutadiene	15.517	225	59	Below Cal	#	19
95) Naphthalene	15.647	128	2105	0.212	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.847	180	878	0.262	ug/l	88

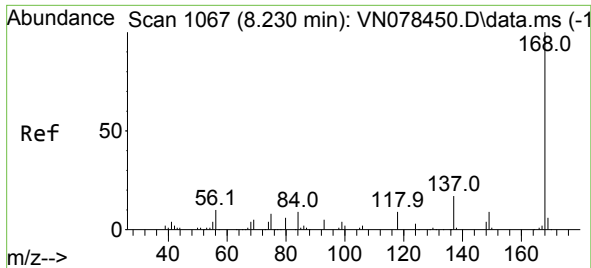
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

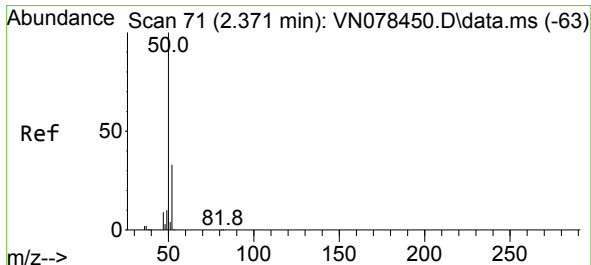
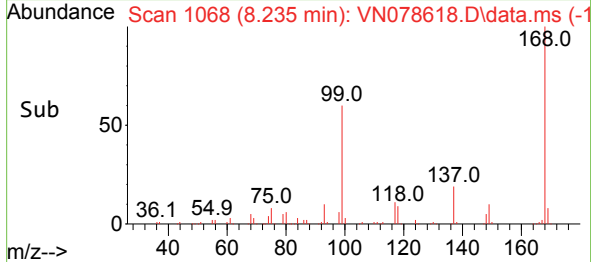
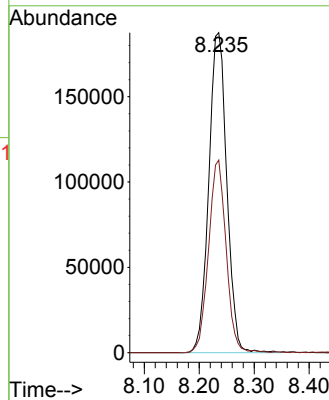
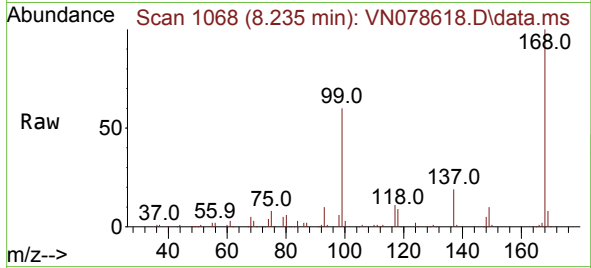




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1067
Delta R.T. 0.005 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

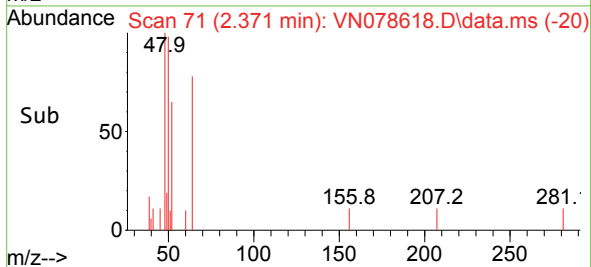
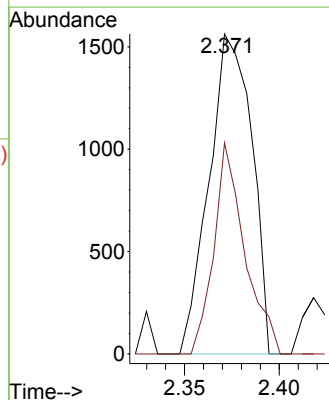
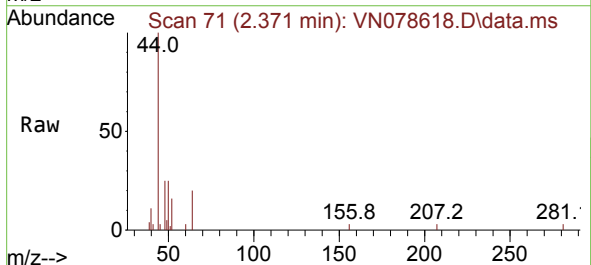
Instrument :
MSVOA_N
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STORAGE-BLANK-SAMPLE-MANAG

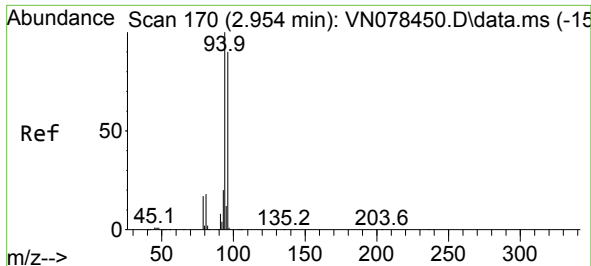
Tgt Ion:168 Resp: 426961
Ion Ratio Lower Upper
168 100
99 60.2 53.0 79.6



#3
Chloromethane
Concen: 0.431 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Tgt Ion: 50 Resp: 2450
Ion Ratio Lower Upper
50 100
52 66.0 26.5 39.7#

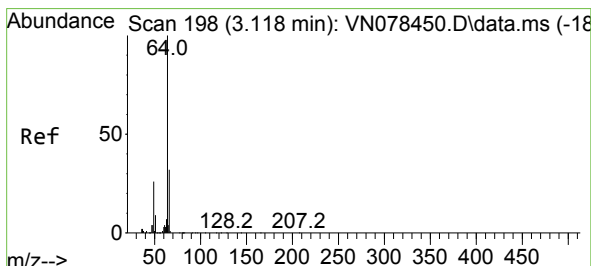
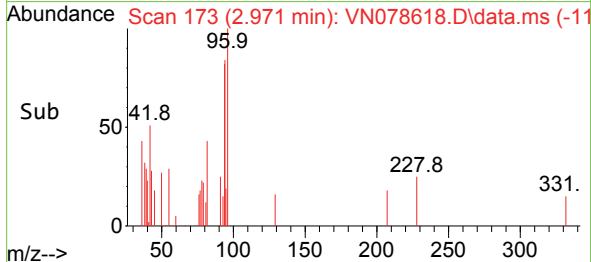
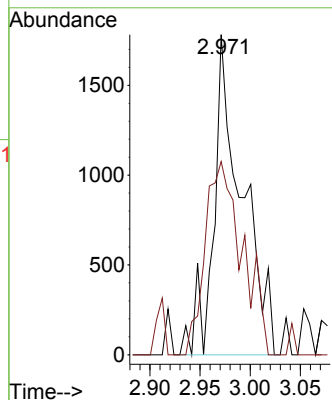
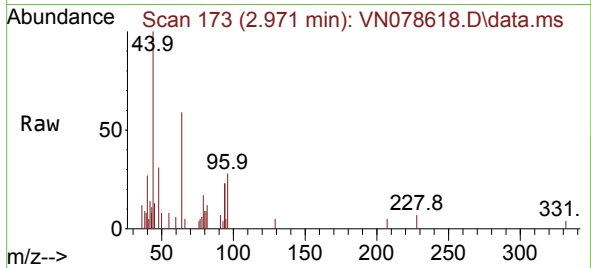




#5
Bromomethane
Concen: Below Cal
RT: 2.971 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

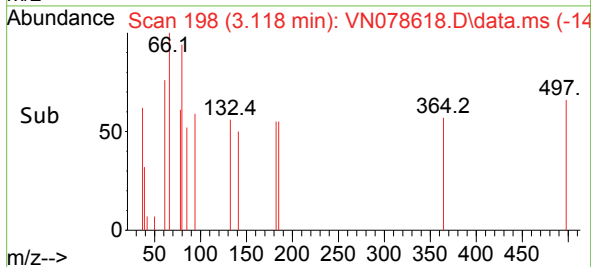
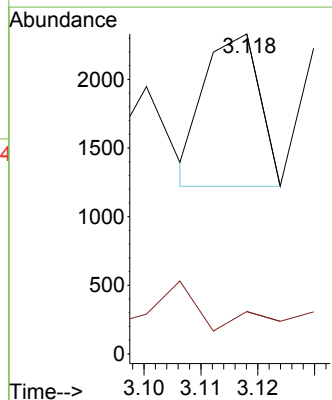
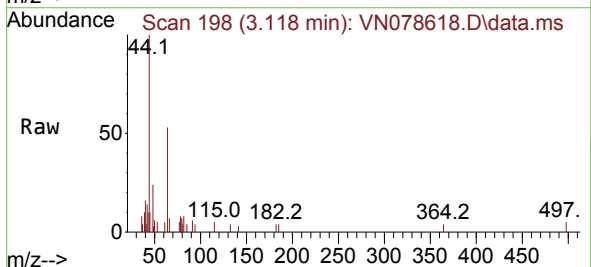
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANAG

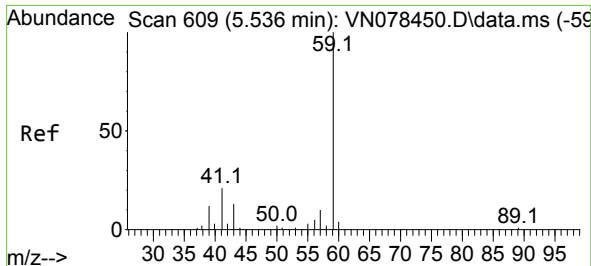
Tgt Ion: 94 Resp: 3487
Ion Ratio Lower Upper
94 100
96 60.4 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Tgt Ion: 64 Resp: 736
Ion Ratio Lower Upper
64 100
66 6.4 25.4 38.2#

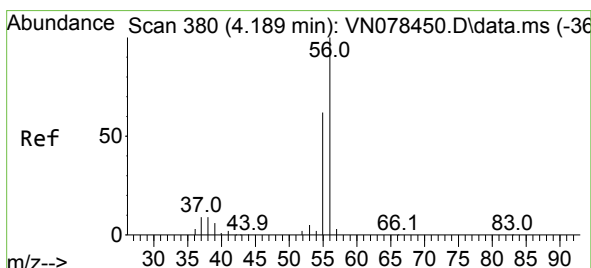
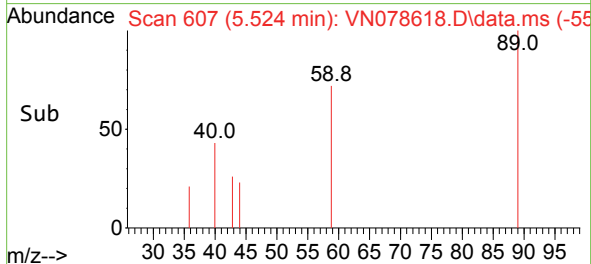
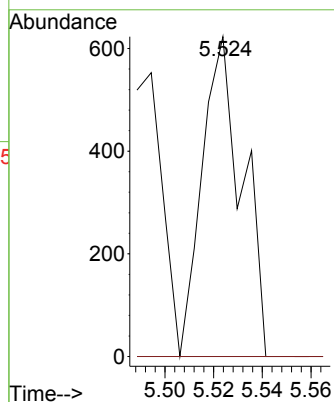
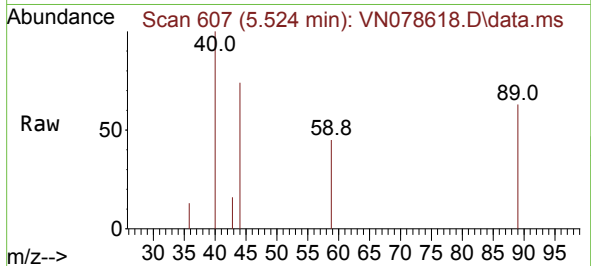




#11
Tert butyl alcohol
Concen: 0.807 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

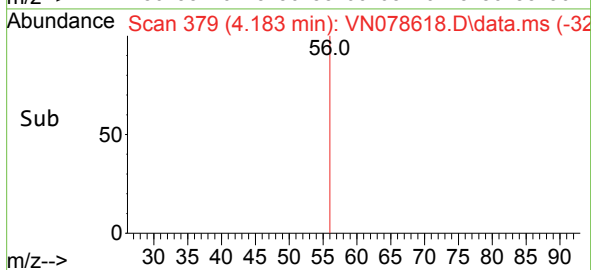
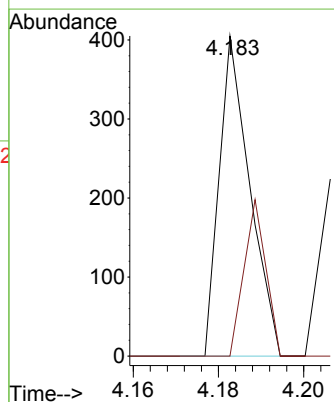
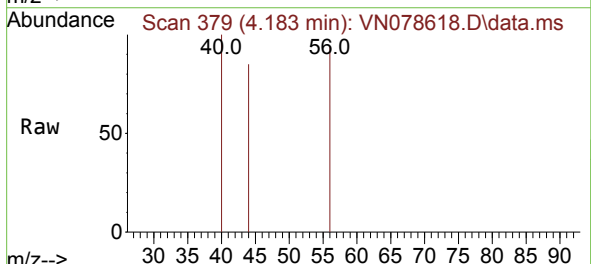
Instrument :
MSVOA_N
ClientSampleId :
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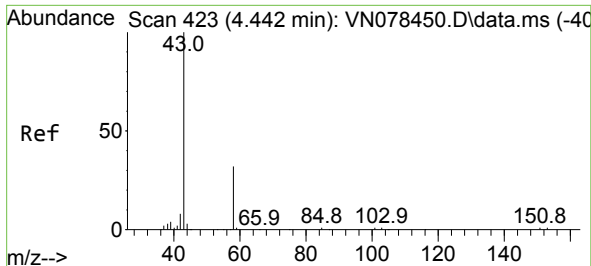
Tgt Ion: 59 Resp: 712
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.231 ug/l
RT: 4.183 min Scan# 379
Delta R.T. -0.006 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Tgt Ion: 56 Resp: 201
Ion Ratio Lower Upper
56 100
55 34.8 54.5 81.7#

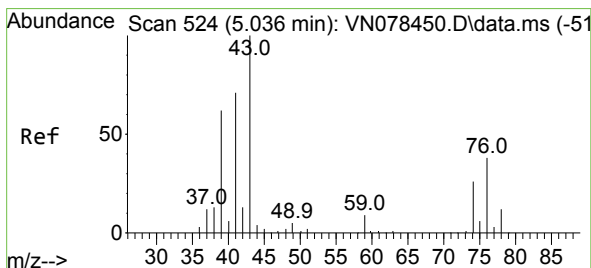
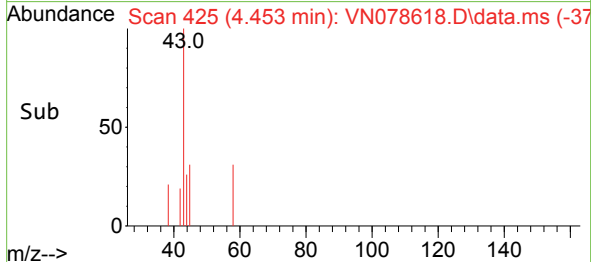
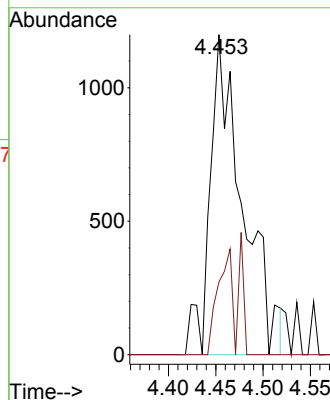
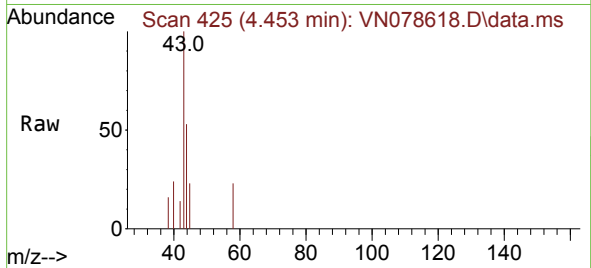




#16
Acetone
Concen: 1.614 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

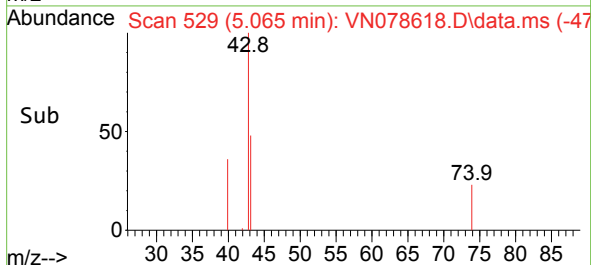
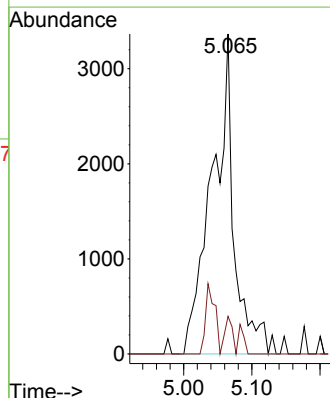
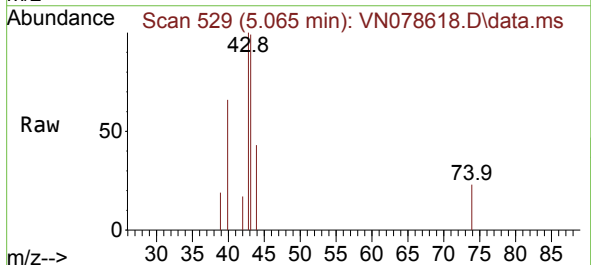
Instrument :
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ClientSampleId :
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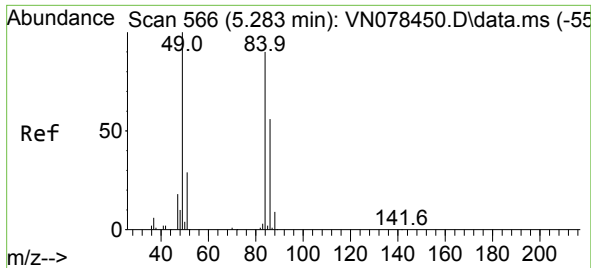
Tgt Ion: 43 Resp: 2877
Ion Ratio Lower Upper
43 100
58 22.7 28.0 42.0#



#18
Methyl Acetate
Concen: 1.015 ug/l
RT: 5.065 min Scan# 529
Delta R.T. 0.029 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Tgt Ion: 43 Resp: 7664
Ion Ratio Lower Upper
43 100
74 4.0 26.2 39.4#

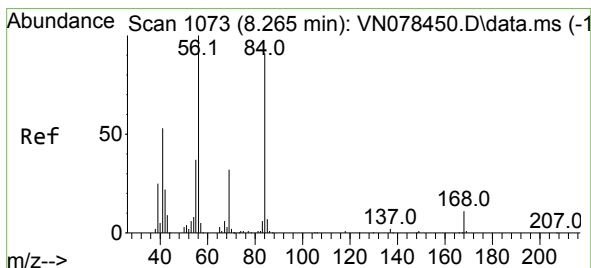
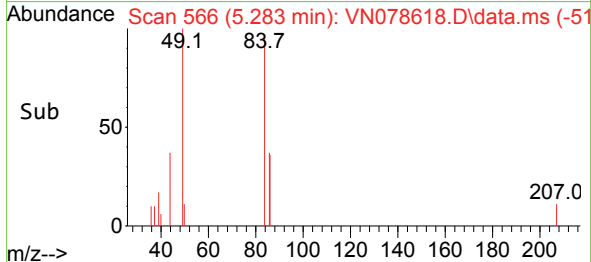
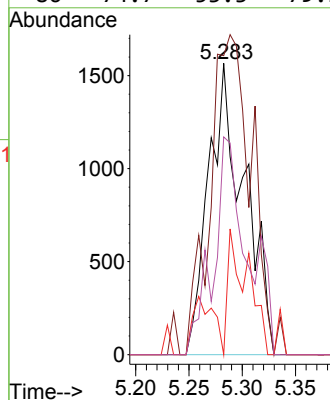
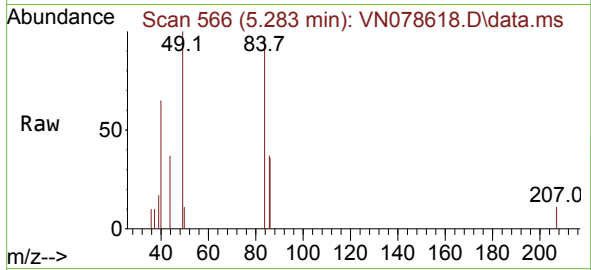




#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

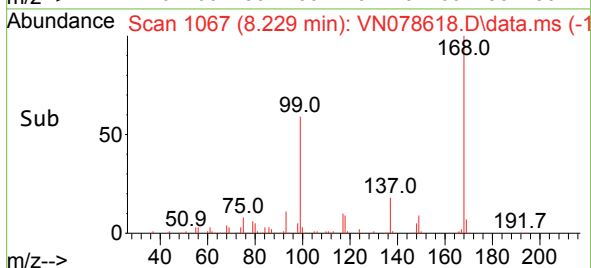
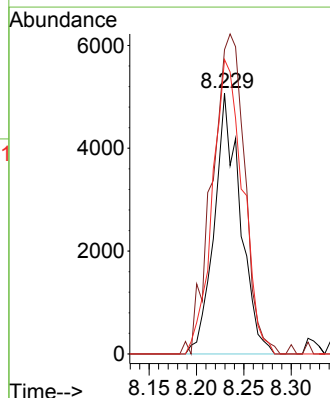
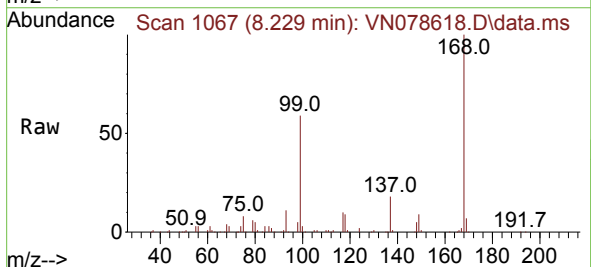
Instrument :
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ClientSampleId :
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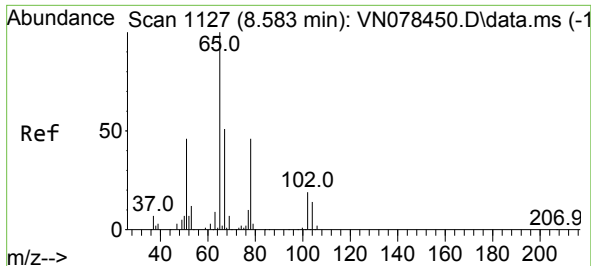
Tgt Ion:	84	Resp:	3680
Ion	Ratio	Lower	Upper
84	100		
49	102.6	79.7	119.5
51	0.0	25.2	37.8#
86	74.7	53.3	79.9



#31
Cyclohexane
Concen: 1.249 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.036 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Tgt Ion:	56	Resp:	9662
Ion	Ratio	Lower	Upper
56	100		
69	116.7	26.8	40.2#
84	112.9	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 50.363 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078618.D

Acq: 21 Jul 2023 17:01

Instrument :

MSVOA_N

ClientSampleId :

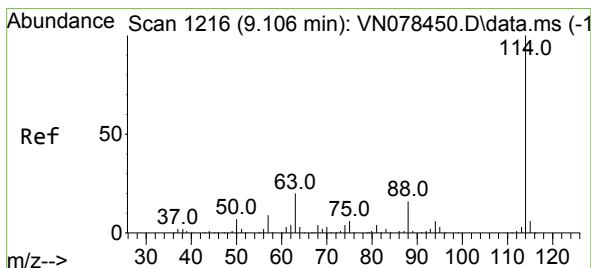
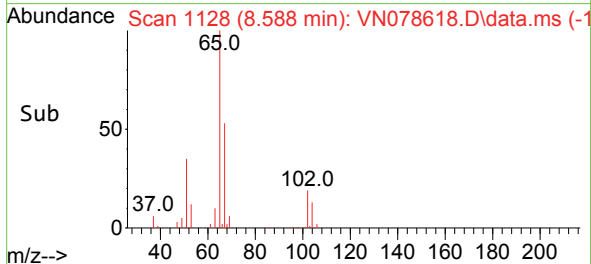
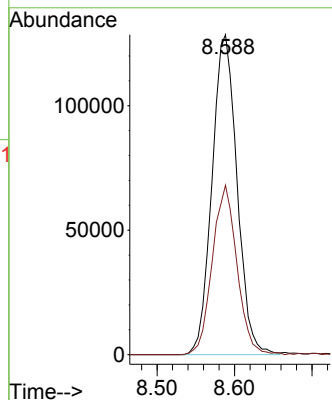
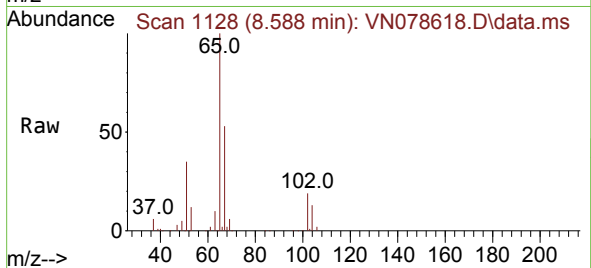
STORAGE-BLANK-SAMPLE-MANAG

Tgt Ion: 65 Resp: 288270

Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN078618.D

Acq: 21 Jul 2023 17:01

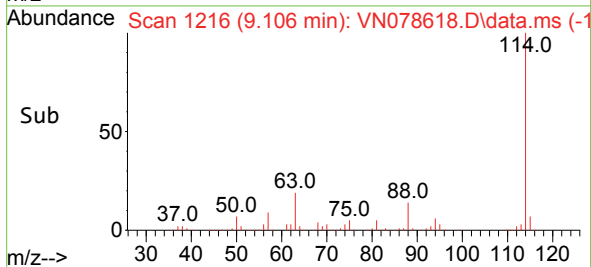
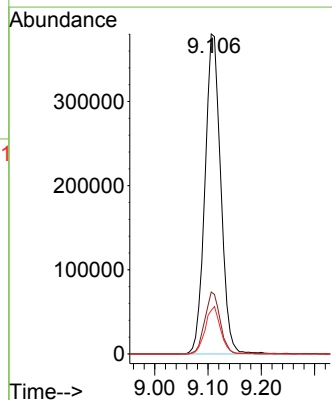
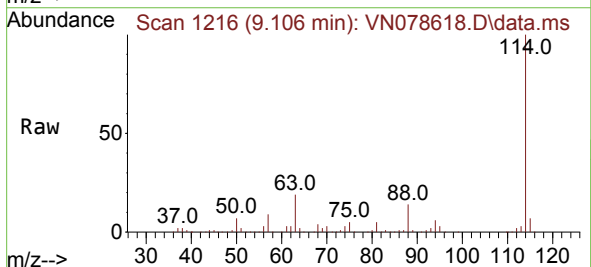
Tgt Ion: 114 Resp: 781387

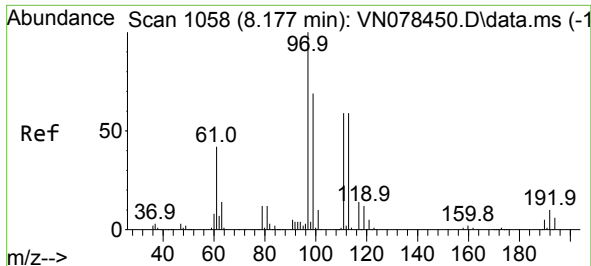
Ion Ratio Lower Upper

114 100

63 19.3 0.0 36.4

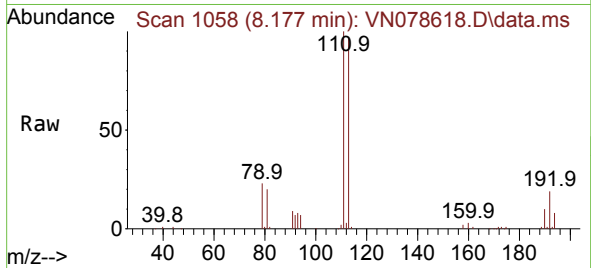
88 13.6 0.0 30.6



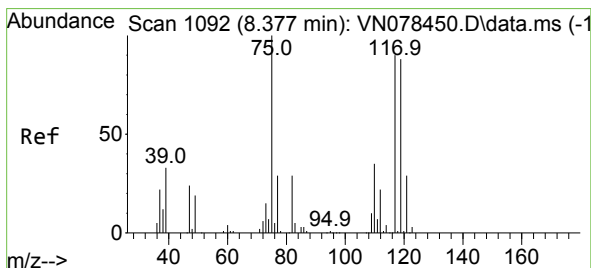
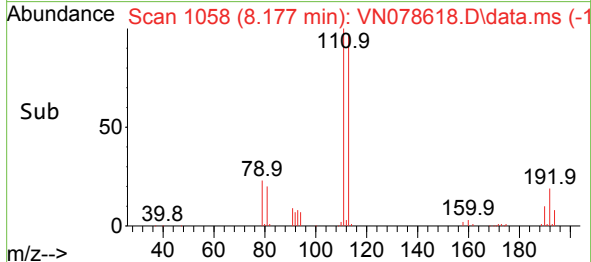
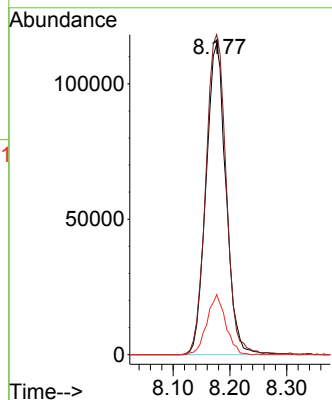


#35
Dibromofluoromethane
Concen: 52.671 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANAG

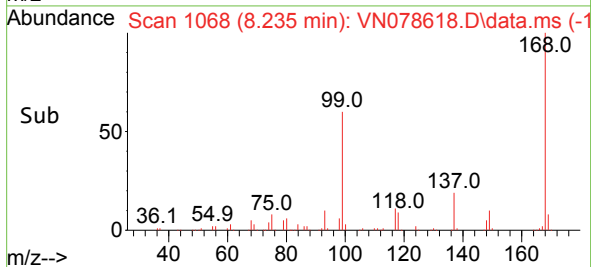
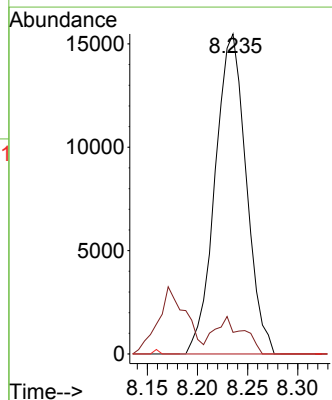
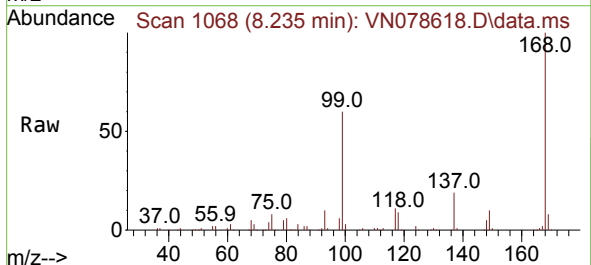


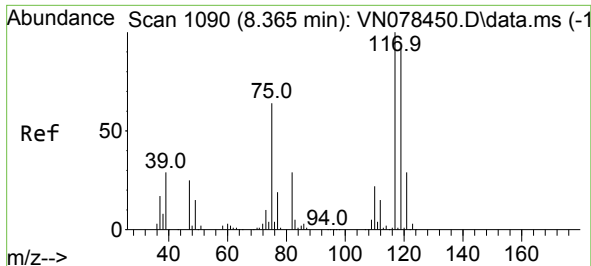
Tgt Ion:113 Resp: 279381
Ion Ratio Lower Upper
113 100
111 105.4 82.6 123.8
192 18.2 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.353 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.142 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

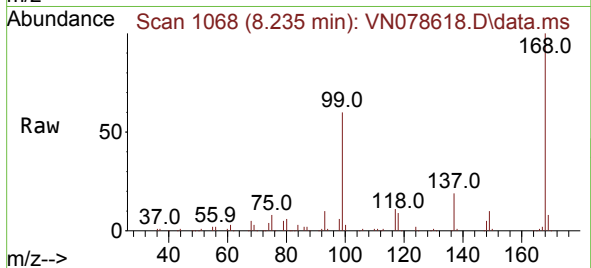
Tgt Ion: 75 Resp: 33339
Ion Ratio Lower Upper
75 100
110 10.7 19.1 57.3#
77 0.0 25.0 37.4#



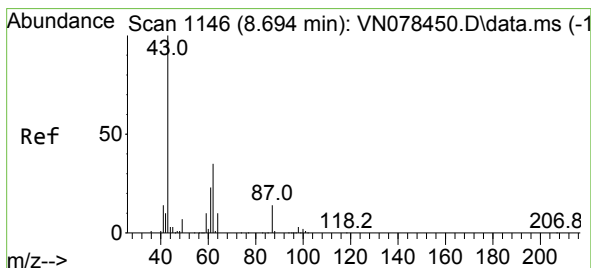
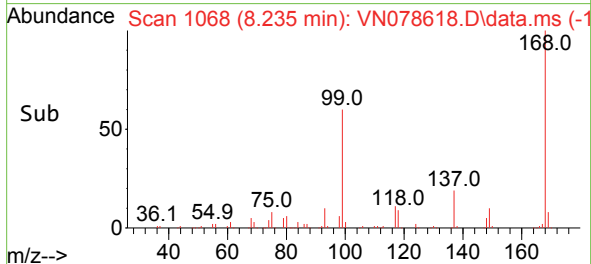
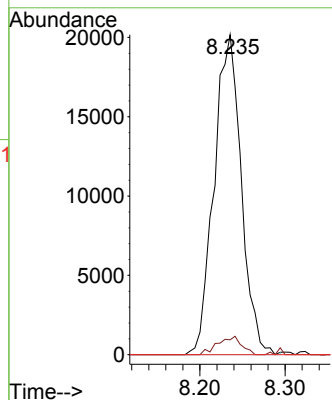


#38
Carbon Tetrachloride
Concen: 5.362 ug/l
RT: 8.235 min Scan# 1103
Delta R.T. -0.130 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANAG

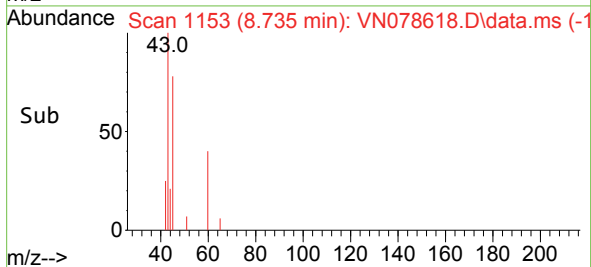
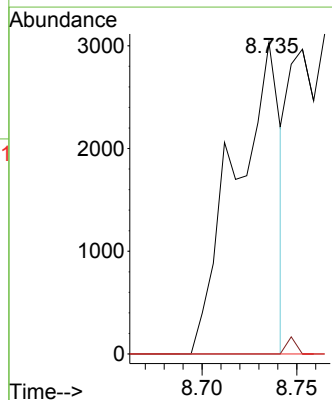
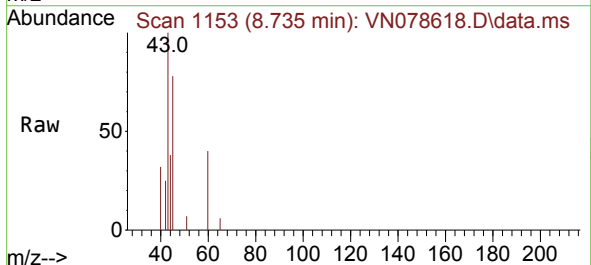


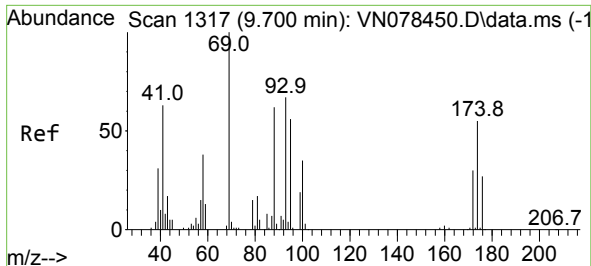
Tgt Ion:117 Resp: 44633
Ion Ratio Lower Upper
117 100
119 4.6 77.3 115.9#
121 0.0 23.3 34.9#



#43
Isopropyl Acetate
Concen: 0.479 ug/l
RT: 8.735 min Scan# 1153
Delta R.T. 0.041 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Tgt Ion: 43 Resp: 5034
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#





#49

1,4-Dioxane

Concen: 0.669 ug/l

RT: 9.512 min Scan# 11

Delta R.T. -0.188 min

Lab File: VN078618.D

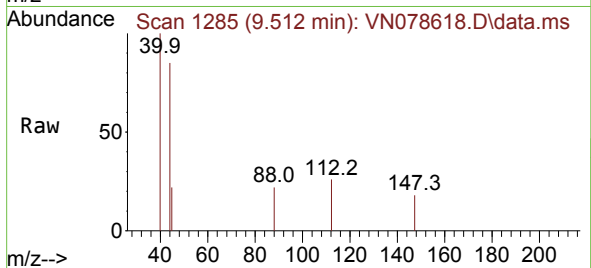
Acq: 21 Jul 2023 17:01

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANAG



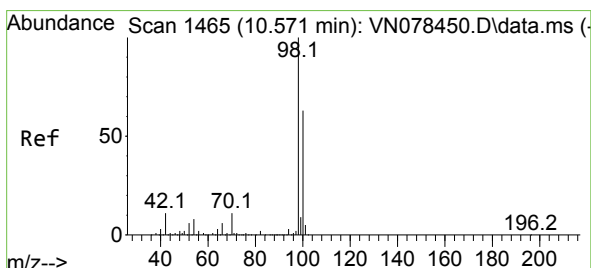
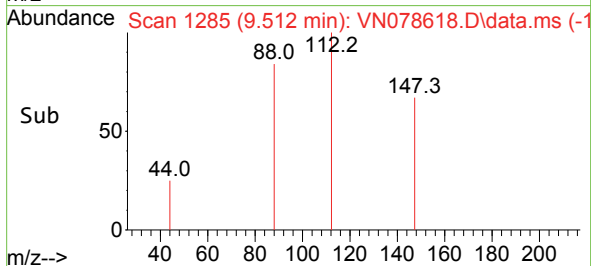
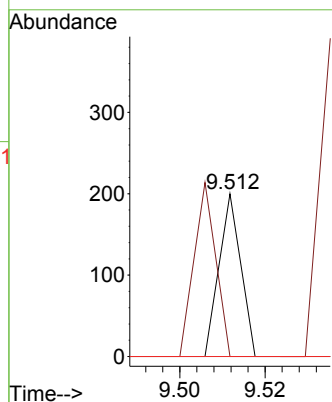
Tgt Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 105.6 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 46.167 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078618.D

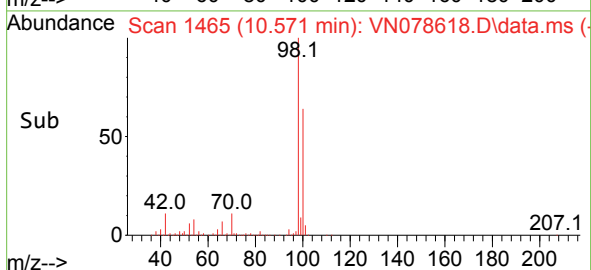
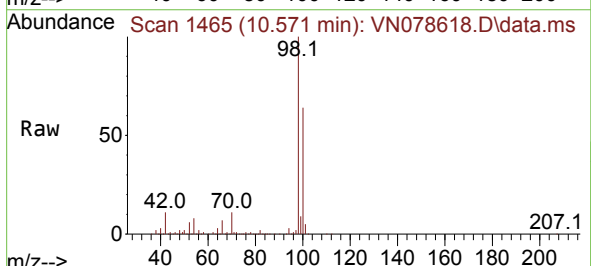
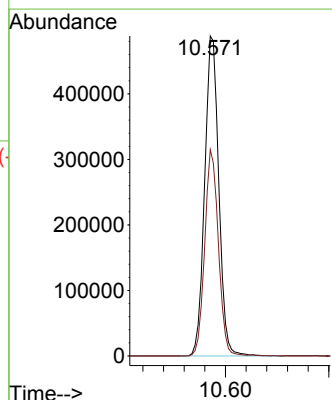
Acq: 21 Jul 2023 17:01

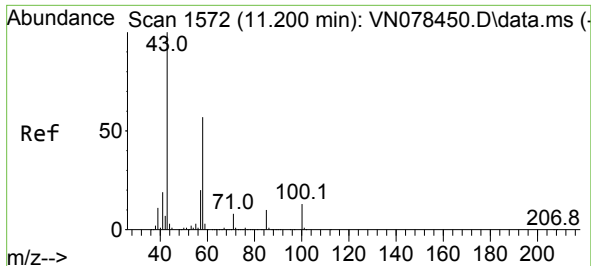
Tgt Ion: 98 Resp: 925100

Ion Ratio Lower Upper

98 100

100 62.3 52.0 78.0

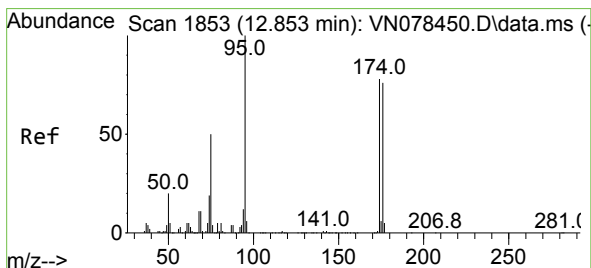
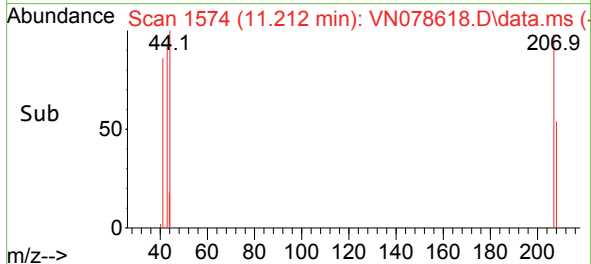
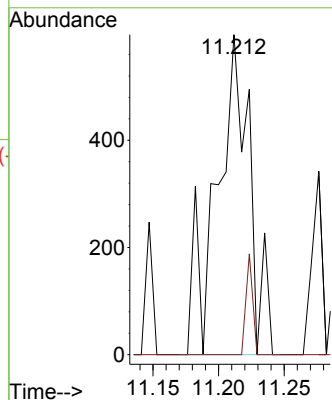
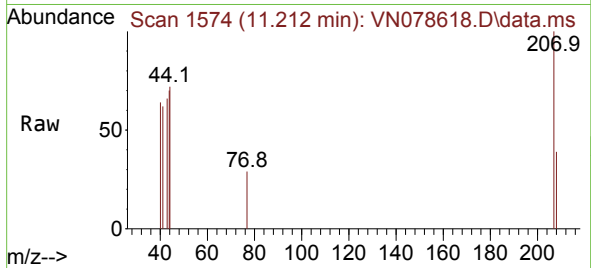




#59
2-Hexanone
Concen: 0.237 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

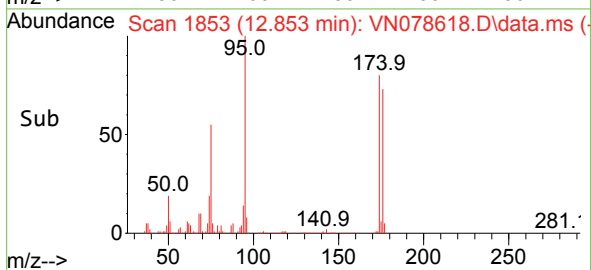
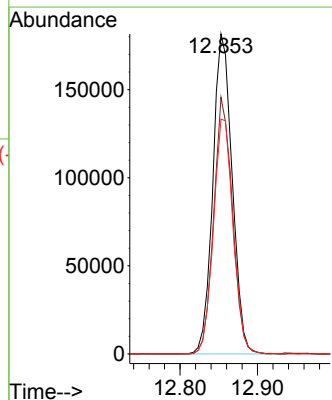
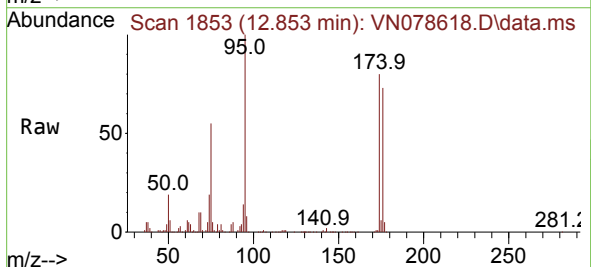
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANAG

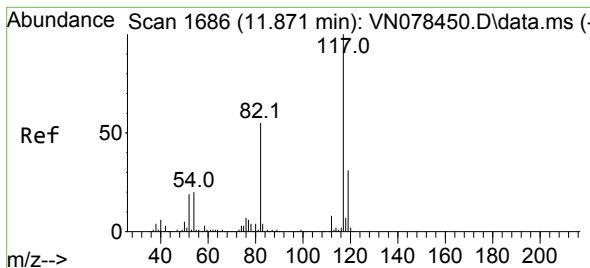
Tgt Ion: 43 Resp: 1055
Ion Ratio Lower Upper
43 100
58 6.3 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 51.015 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Tgt Ion: 95 Resp: 314870
Ion Ratio Lower Upper
95 100
174 77.7 0.0 143.8
176 74.6 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.870 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN078618.D

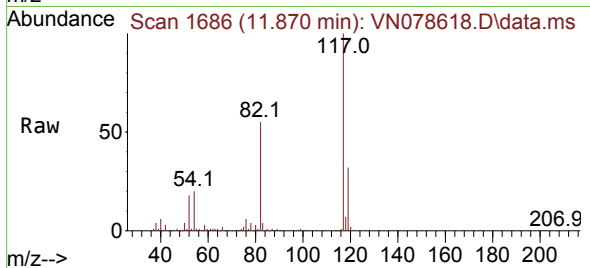
Acq: 21 Jul 2023 17:01

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANAG



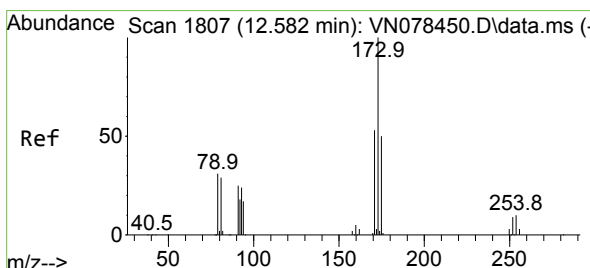
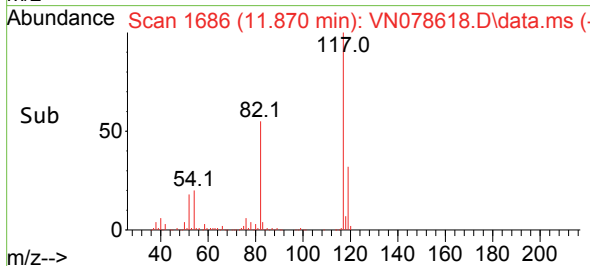
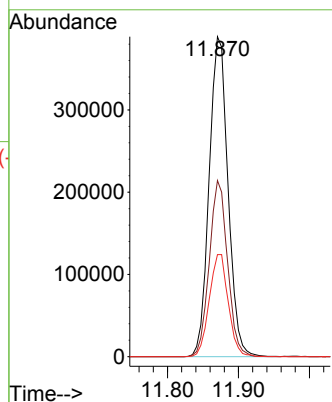
Tgt Ion:117 Resp: 716945

Ion Ratio Lower Upper

117 100

82 55.1 44.0 66.0

119 31.9 25.6 38.4



#71

Bromoform

Concen: 0.548 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

Lab File: VN078618.D

Acq: 21 Jul 2023 17:01

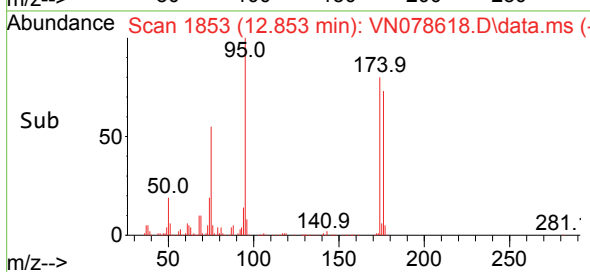
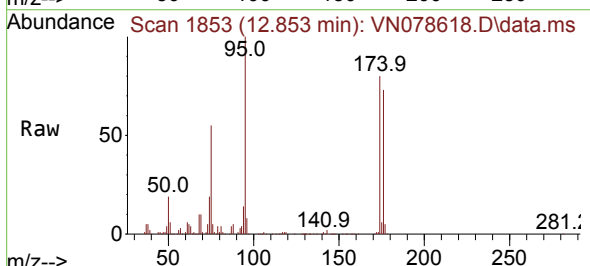
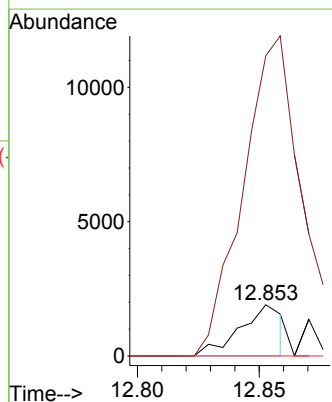
Tgt Ion:173 Resp: 2287

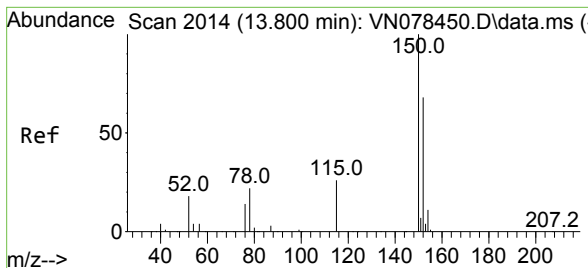
Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

254 0.0 0.0 0.0

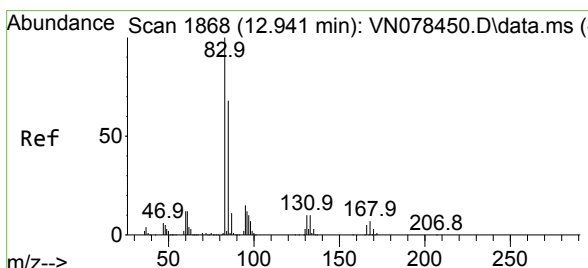
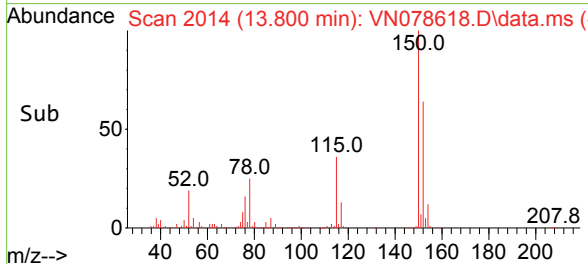
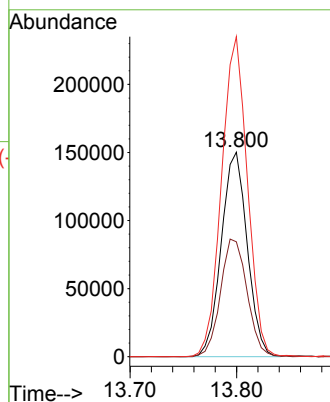
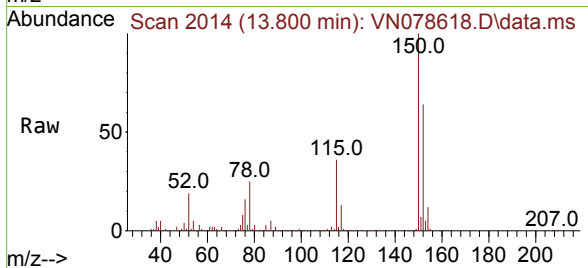




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

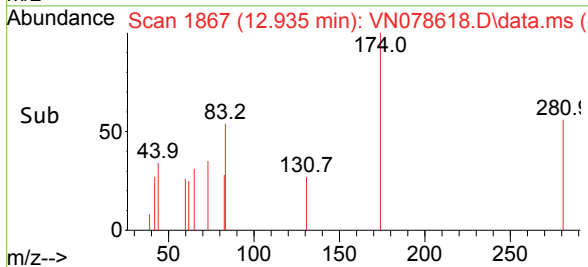
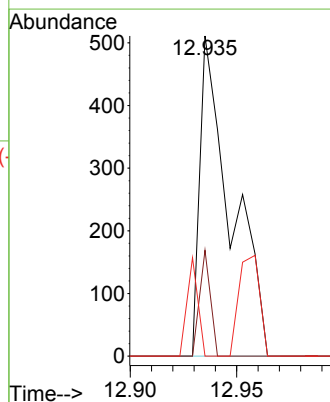
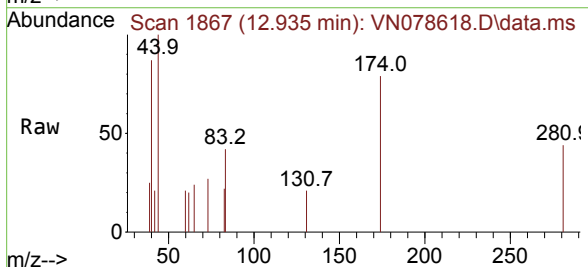
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANAG

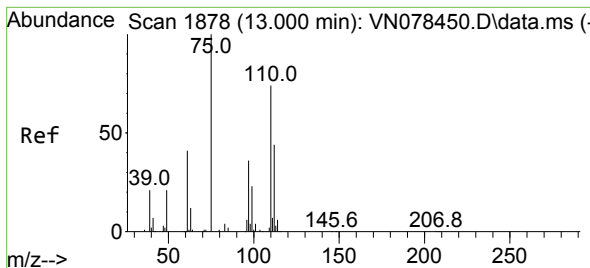
Tgt Ion:152 Resp: 254050
Ion Ratio Lower Upper
152 100
115 58.9 32.3 96.8
150 156.1 0.0 355.8



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Tgt Ion: 83 Resp: 517
Ion Ratio Lower Upper
83 100
131 11.6 5.0 15.0
85 10.6 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 27.004 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078618.D

Acq: 21 Jul 2023 17:01

Instrument :

MSVOA_N

ClientSampleId :

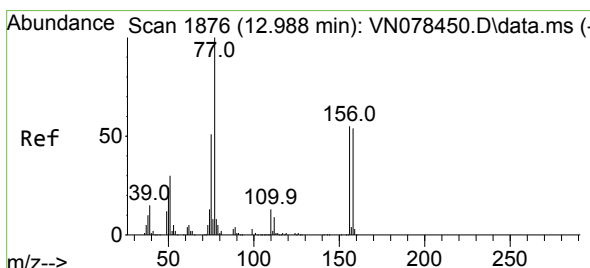
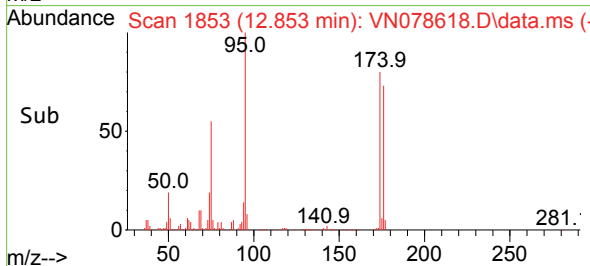
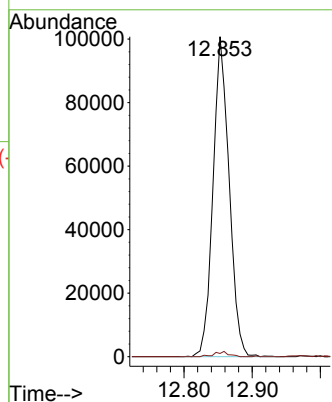
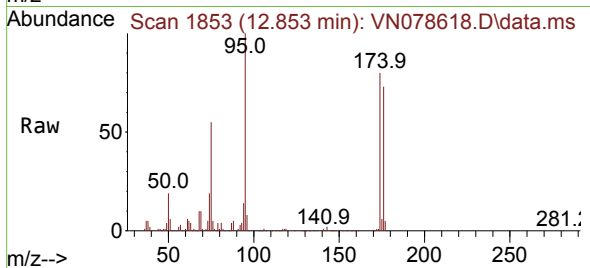
STORAGE-BLANK-SAMPLE-MANAG

Tgt Ion: 75 Resp: 165822

Ion Ratio Lower Upper

75 100

77 1.4 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.982 min Scan# 1875

Delta R.T. -0.006 min

Lab File: VN078618.D

Acq: 21 Jul 2023 17:01

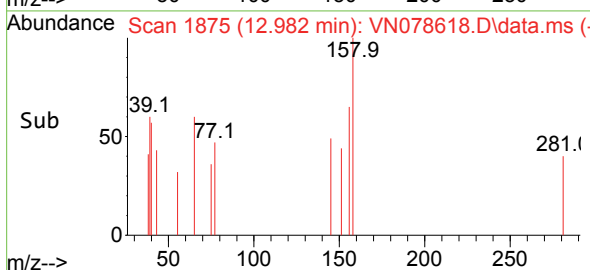
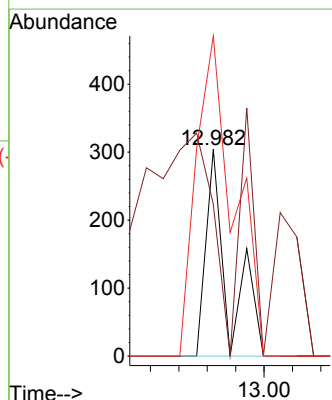
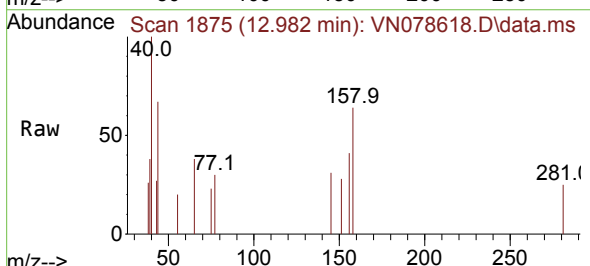
Tgt Ion:156 Resp: 163

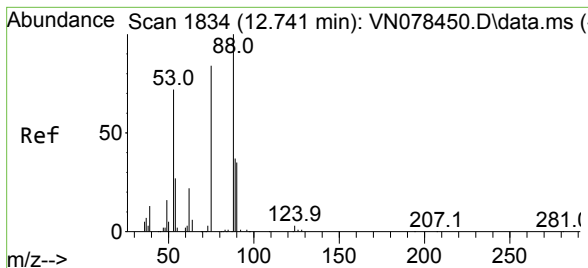
Ion Ratio Lower Upper

156 100

77 341.1 107.7 323.3#

158 264.4 48.4 145.3#

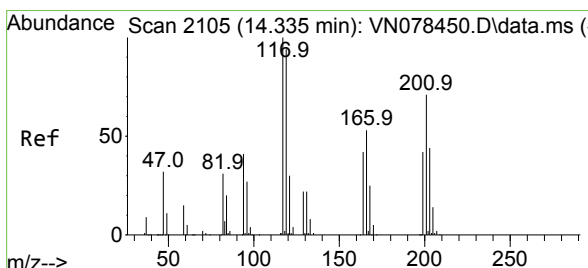
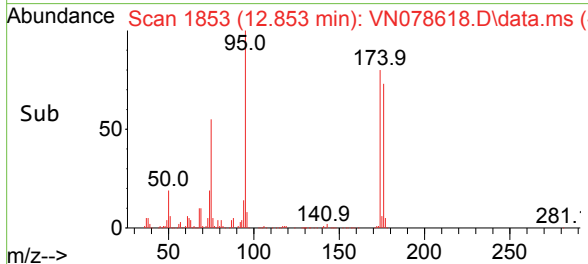
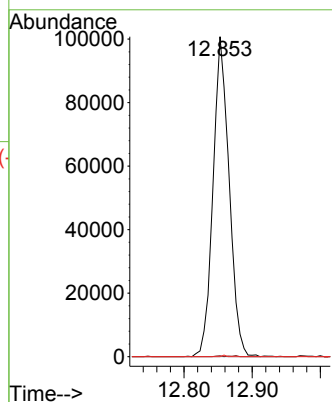
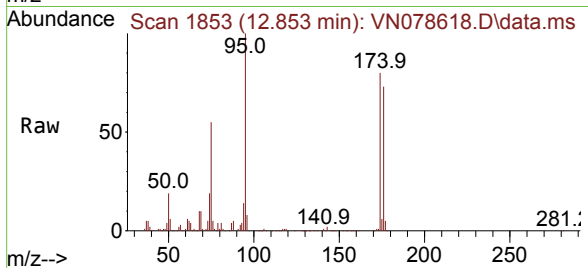




#81
trans-1,4-Dichloro-2-butene
Concen: 70.961 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

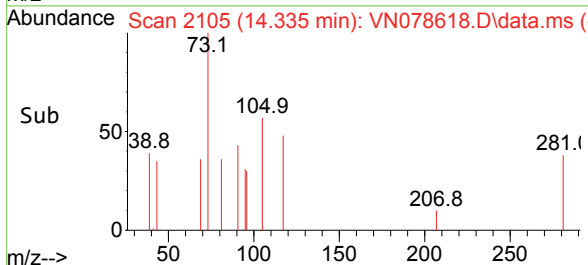
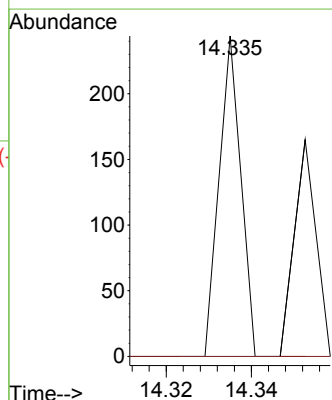
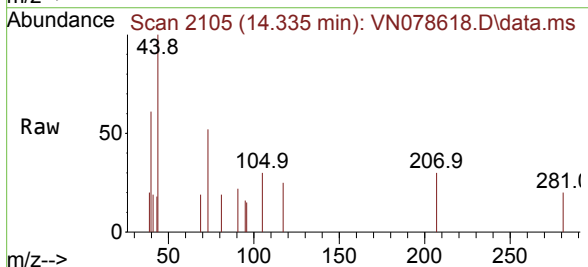
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANAG

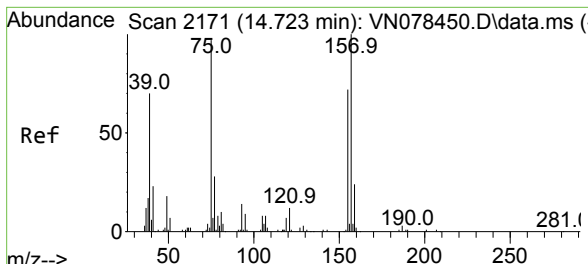
Tgt Ion: 75 Resp: 165822
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#



#90
Hexachloroethane
Concen: Below Cal
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Tgt Ion: 117 Resp: 86
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#

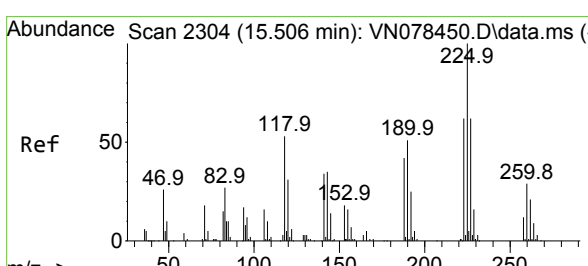
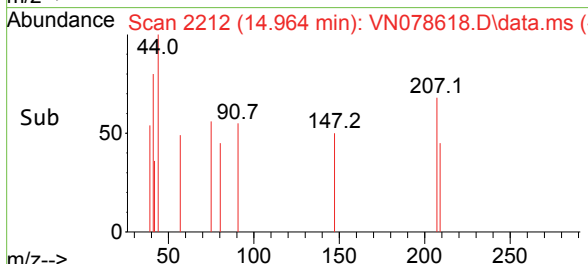
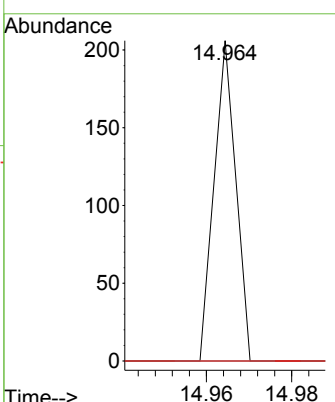
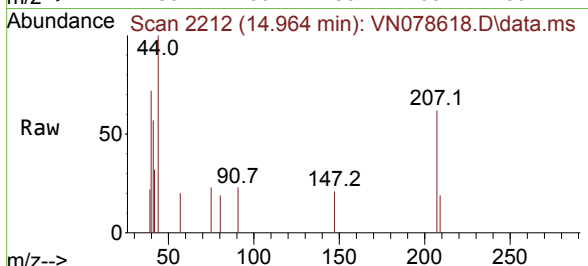




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.964 min Scan# 2171
 Delta R.T. 0.241 min
 Lab File: VN078618.D
 Acq: 21 Jul 2023 17:01

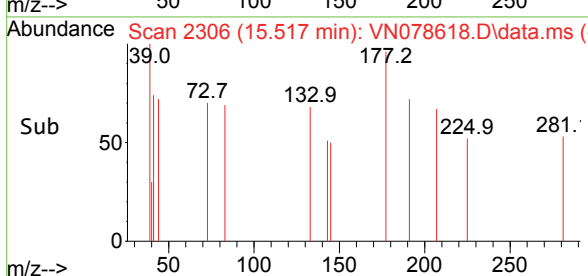
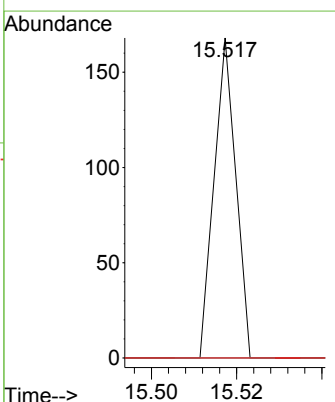
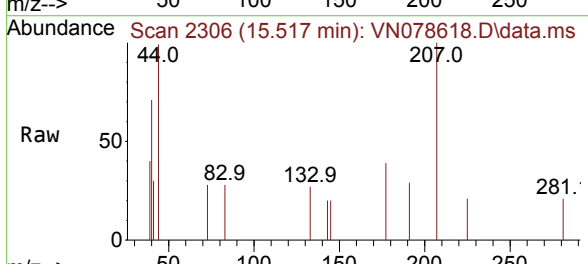
Instrument : MSVOA_N
 ClientSampleId : STORAGE-BLANK-SAMPLE-MANAG

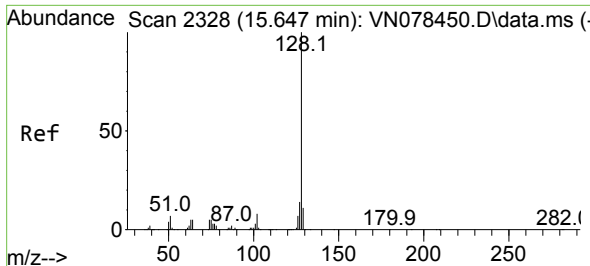
Tgt Ion:	75	Resp:	73
Ion	Ratio	Lower	Upper
75	100		
155	0.0	39.1	117.2#
157	0.0	50.3	150.9#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.517 min Scan# 2306
 Delta R.T. 0.011 min
 Lab File: VN078618.D
 Acq: 21 Jul 2023 17:01

Tgt Ion:	225	Resp:	59
Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.3	93.8#
227	0.0	31.9	95.9#

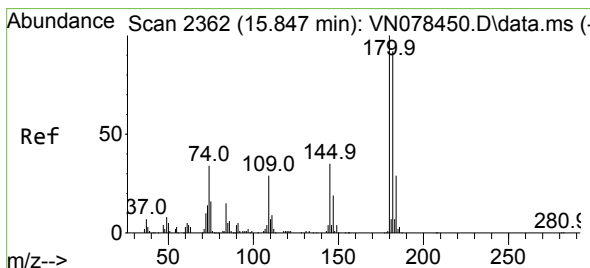
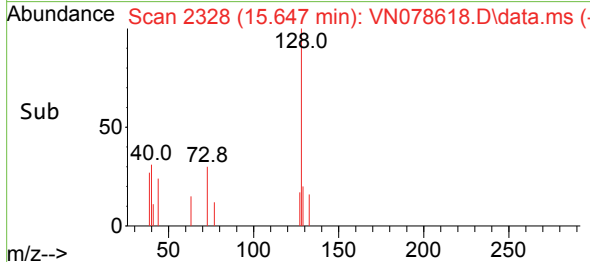
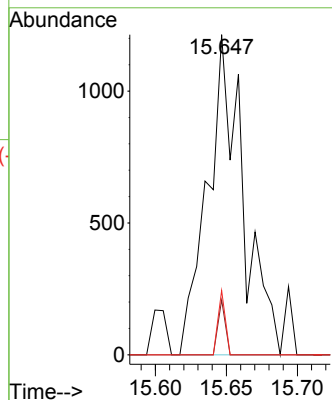
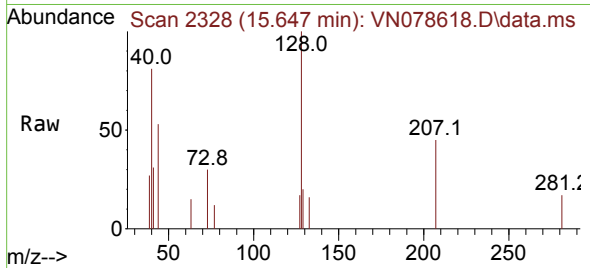




#95
Naphthalene
Concen: 0.212 ug/l
RT: 15.647 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANAG

Tgt Ion:128 Resp: 2105
Ion Ratio Lower Upper
128 100
127 3.5 10.0 15.0#
129 4.1 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.262 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN078618.D
Acq: 21 Jul 2023 17:01

Tgt Ion:180 Resp: 878
Ion Ratio Lower Upper
180 100
182 82.7 46.2 138.6
145 25.2 17.5 52.6

