

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013124\
 Data File : VN080836.D
 Acq On : 31 Jan 2024 13:33
 Operator : JC\MD
 Sample : P1284-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1248

Quant Time: Jan 31 23:15:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N012924W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jan 29 12:54:23 2024
 Response via : Initial Calibration

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

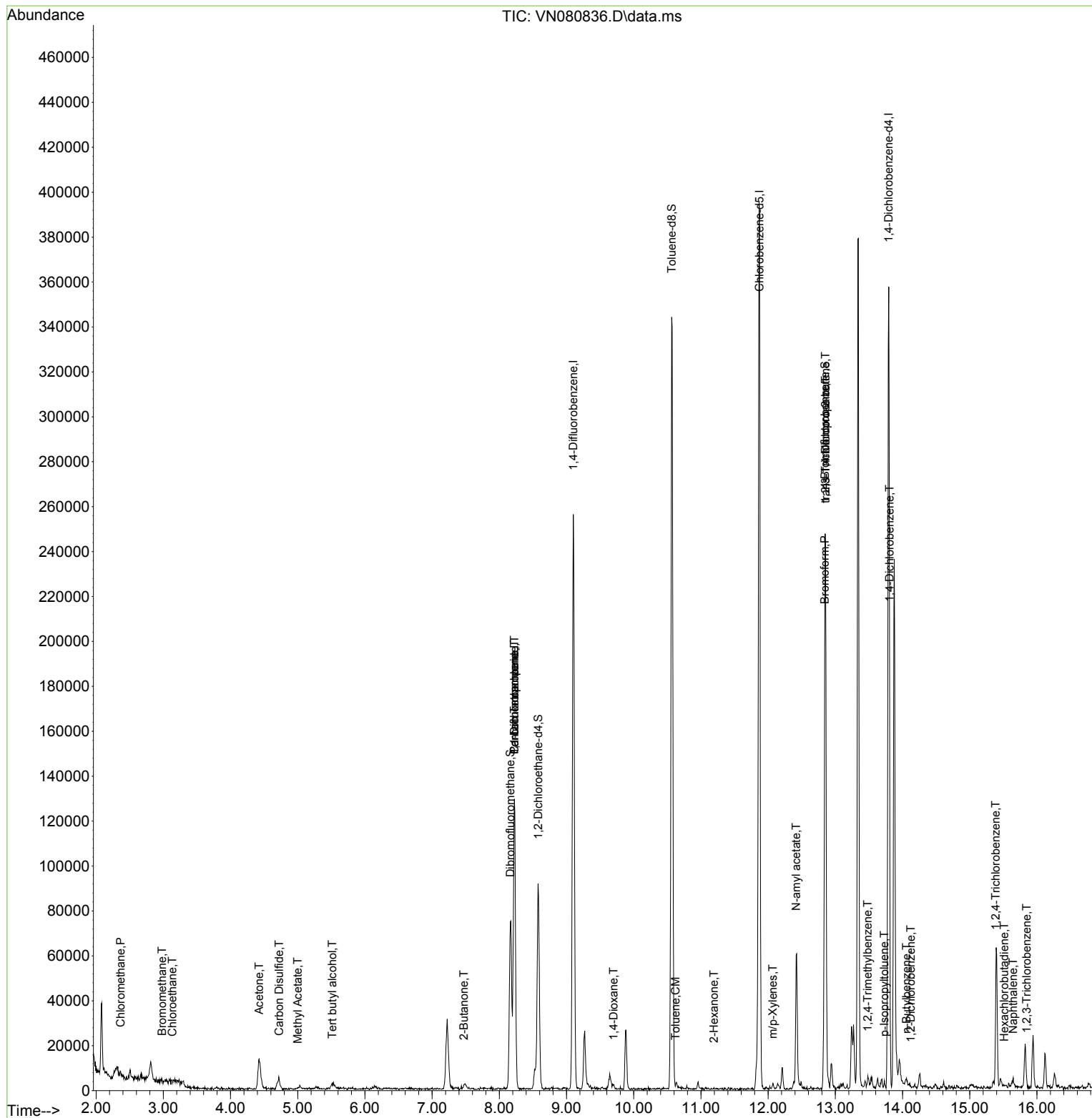
Internal Standards						
1) Pentafluorobenzene	8.224	168	81289	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	198023	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	201919	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	81435	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	70261	49.962	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.920%		
35) Dibromofluoromethane	8.165	113	55013	45.409	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.820%		
50) Toluene-d8	10.565	98	221102	46.629	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.260%		
62) 4-Bromofluorobenzene	12.847	95	84441	51.103	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	102.200%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1821	1.003	ug/l	97
5) Bromomethane	2.983	94	155	0.281	ug/l #	6
6) Chloroethane	3.136	64	901	1.225	ug/l #	42
11) Tert butyl alcohol	5.512	59	2195	9.575	ug/l #	90
16) Acetone	4.424	43	25286	49.579	ug/l #	86
17) Carbon Disulfide	4.724	76	1605	0.452	ug/l #	78
18) Methyl Acetate	5.000	43	446	0.251	ug/l	93
25) 2-Butanone	7.471	43	4370	4.511	ug/l #	84
36) 1,1-Dichloropropene	8.224	75	9310	4.134	ug/l #	47
38) Carbon Tetrachloride	8.224	117	10289	5.671	ug/l #	16
49) 1,4-Dioxane	9.700	88	811	32.907	ug/l #	77
52) Toluene	10.624	92	997	0.263	ug/l	81
59) 2-Hexanone	11.194	43	453	0.247	ug/l #	26
68) m/p-Xylenes	12.071	106	649	0.223	ug/l #	63
71) Bromoform	12.841	173	341	0.352	ug/l #	30
74) N-amyl acetate	12.418	43	13751	2.970	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	48385	19.700	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	48385	50.751	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.482	105	1475	0.245	ug/l	75
86) p-Isopropyltoluene	13.729	119	1344	0.247	ug/l #	82
88) 1,4-Dichlorobenzene	13.806	146	646	0.226	ug/l #	43
89) n-Butylbenzene	14.059	91	2067	0.389	ug/l	94
91) 1,2-Dichlorobenzene	14.123	146	573	0.220	ug/l #	23
93) 1,2,4-Trichlorobenzene	15.388	180	667	0.497	ug/l #	1
94) Hexachlorobutadiene	15.512	225	220	0.375	ug/l #	17
95) Naphthalene	15.647	128	3585	0.697	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.847	180	362	0.274	ug/l #	3

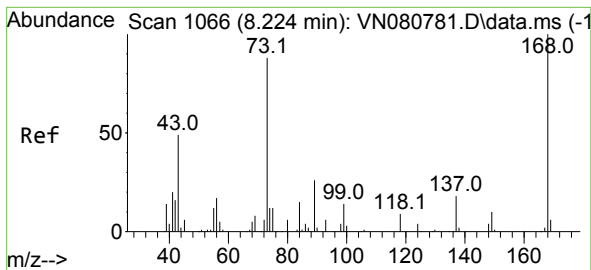
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jan 29 12:54:23 2024
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN080836.D

Acq: 31 Jan 2024 13:33

Instrument :

MSVOA_N

ClientSampleId :

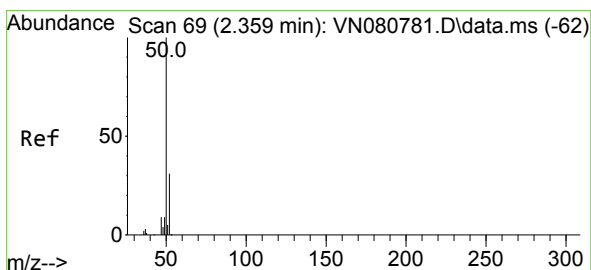
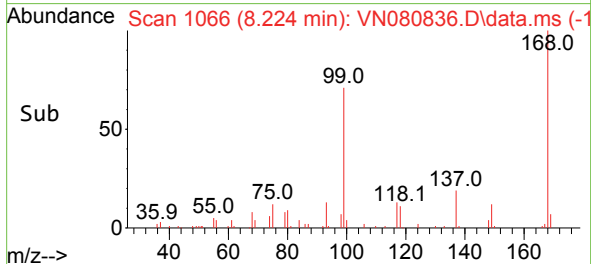
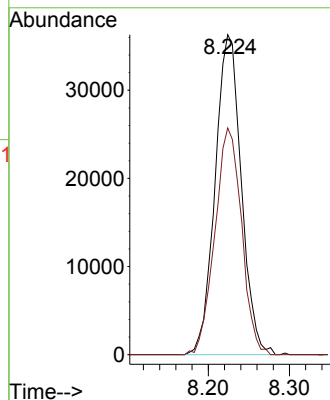
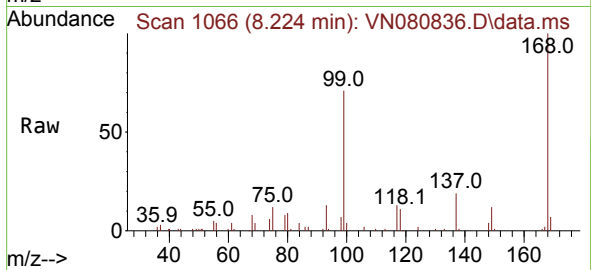
1248

Tgt Ion:168 Resp: 81289

Ion Ratio Lower Upper

168 100

99 70.9 59.9 89.9



#3

Chloromethane

Concen: 1.003 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080836.D

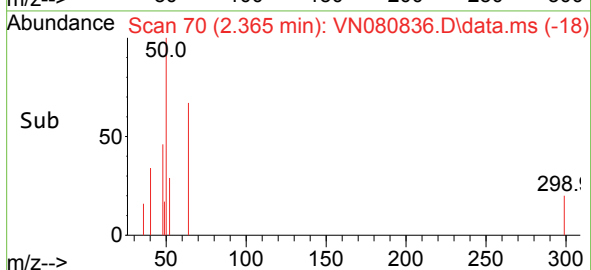
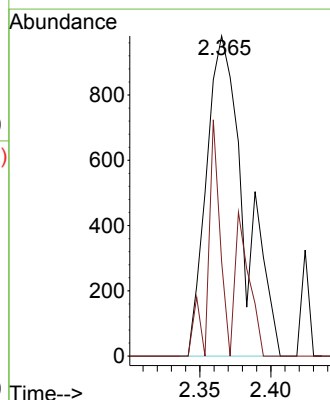
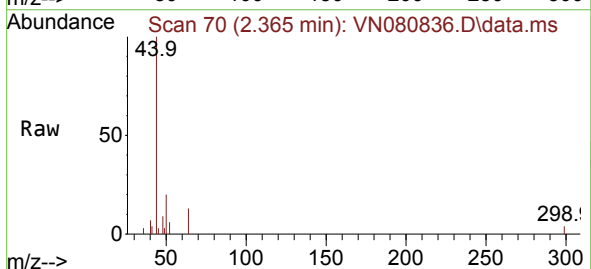
Acq: 31 Jan 2024 13:33

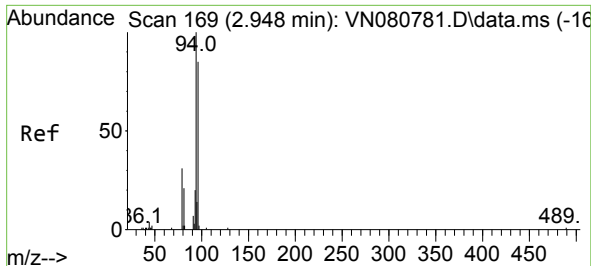
Tgt Ion: 50 Resp: 1821

Ion Ratio Lower Upper

50 100

52 29.5 25.0 37.4

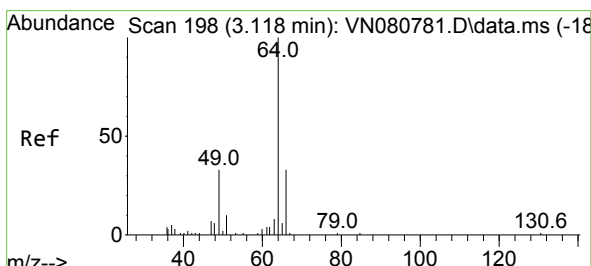
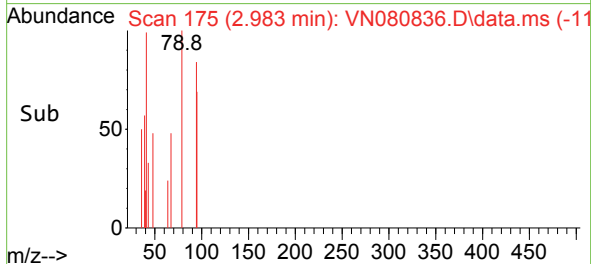
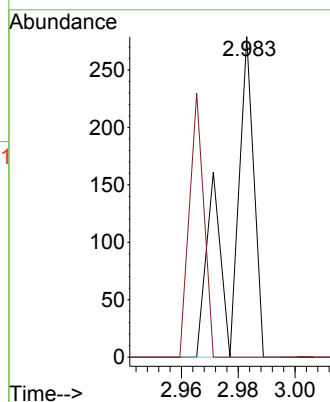
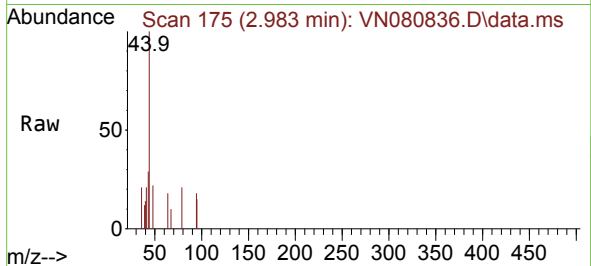




#5
Bromomethane
Concen: 0.281 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

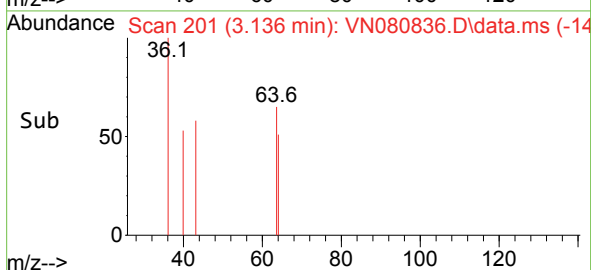
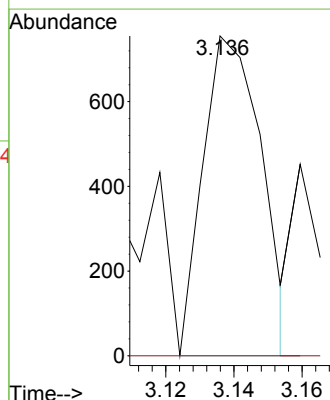
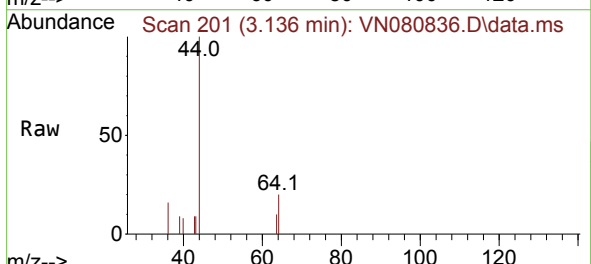
Instrument :
MSVOA_N
ClientSampleId :
1248

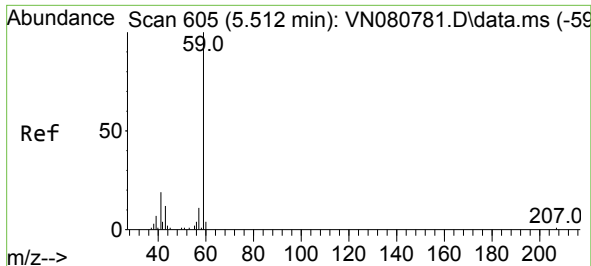
Tgt Ion: 94 Resp: 155
Ion Ratio Lower Upper
94 100
96 0.0 69.2 103.8#



#6
Chloroethane
Concen: 1.225 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.018 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

Tgt Ion: 64 Resp: 901
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#

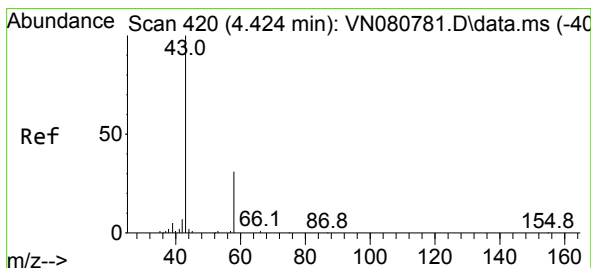
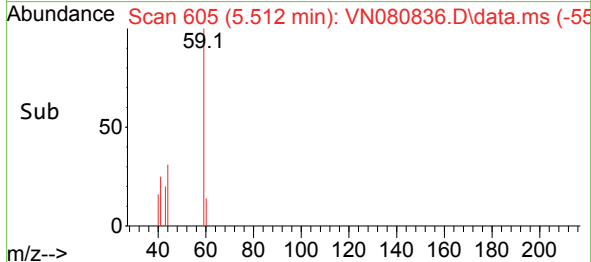
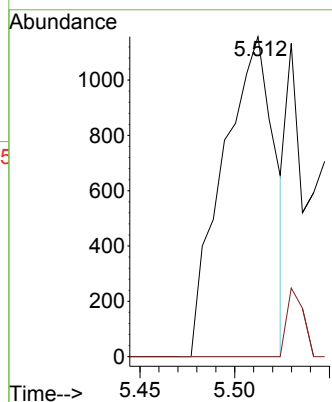
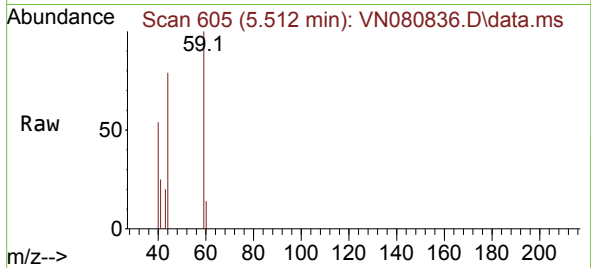




#11
Tert butyl alcohol
Concen: 9.575 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

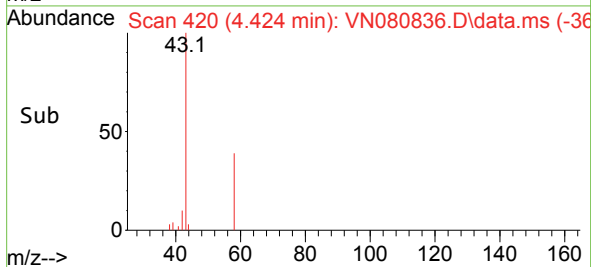
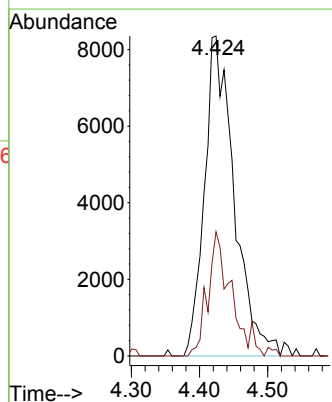
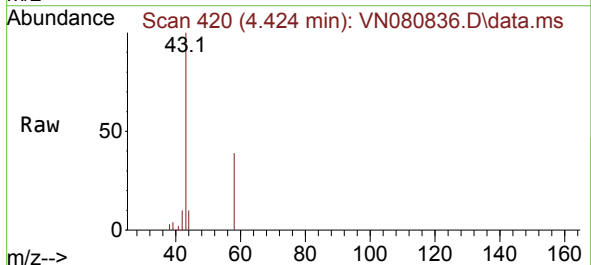
Instrument :
MSVOA_N
ClientSampleId :
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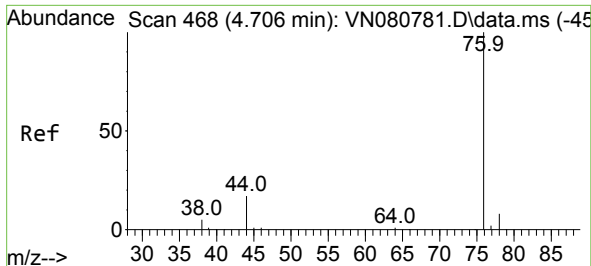
Tgt Ion: 59 Resp: 2195
Ion Ratio Lower Upper
59 100
57 6.8 8.6 12.8#



#16
Acetone
Concen: 49.579 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

Tgt Ion: 43 Resp: 25286
Ion Ratio Lower Upper
43 100
58 38.8 24.8 37.2#

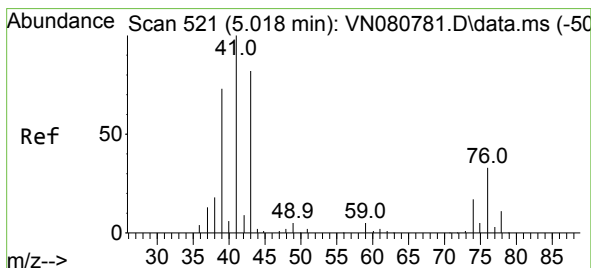
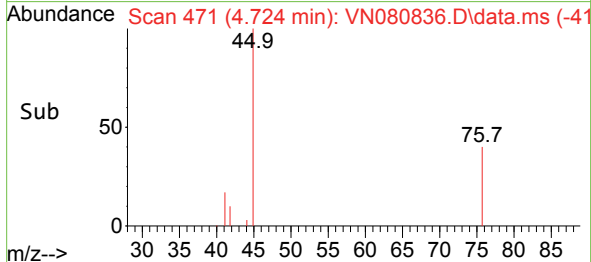
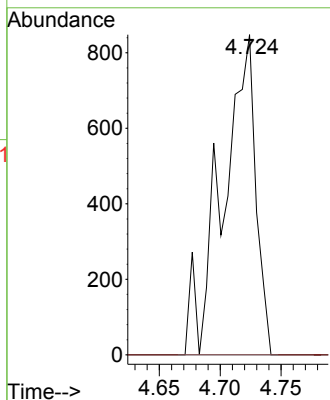
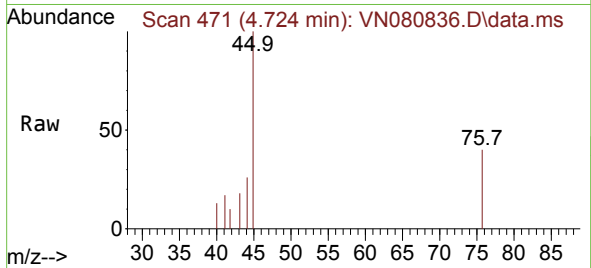




#17
Carbon Disulfide
Concen: 0.452 ug/l
RT: 4.724 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

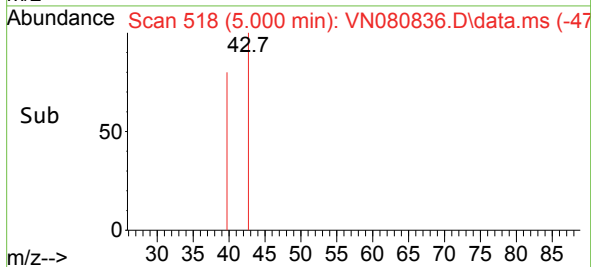
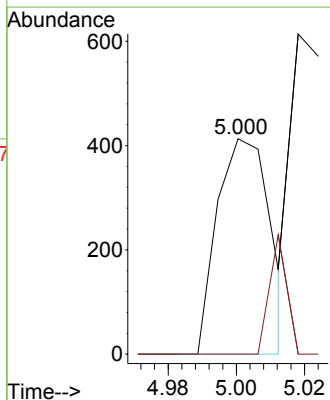
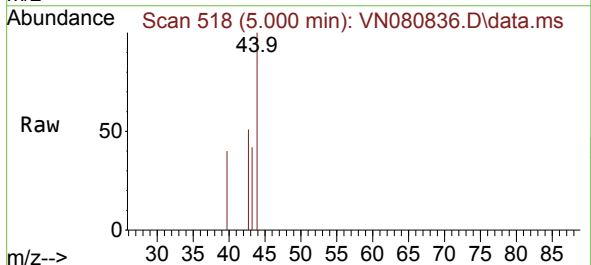
Instrument :
MSVOA_N
ClientSampleId :
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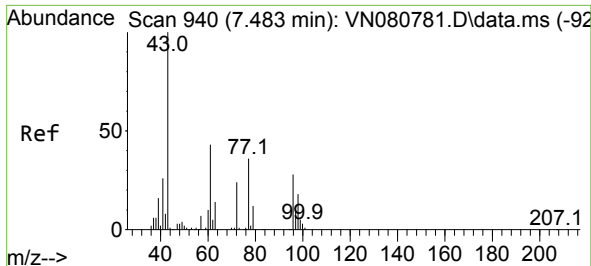
Tgt Ion: 76 Resp: 1605
Ion Ratio Lower Upper
76 100
78 0.0 6.3 9.5#



#18
Methyl Acetate
Concen: 0.251 ug/l
RT: 5.000 min Scan# 518
Delta R.T. -0.018 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

Tgt Ion: 43 Resp: 446
Ion Ratio Lower Upper
43 100
74 18.2 17.3 25.9

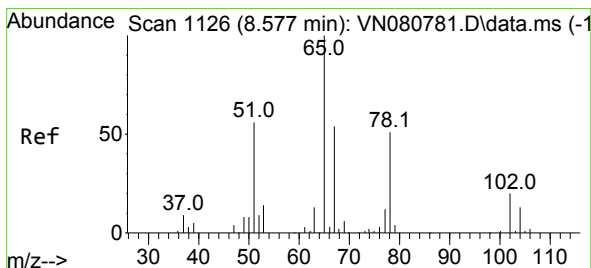
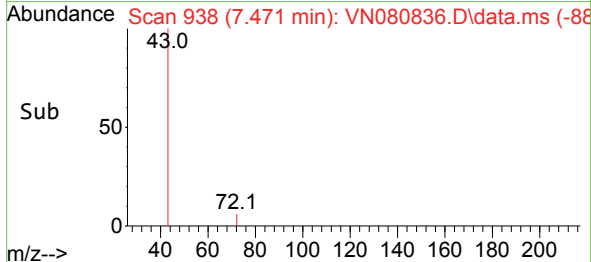
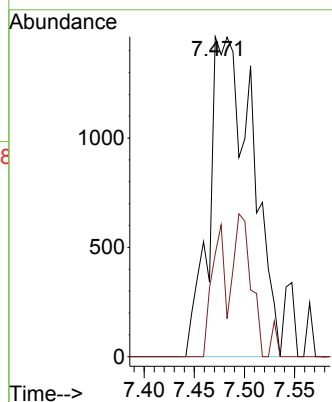
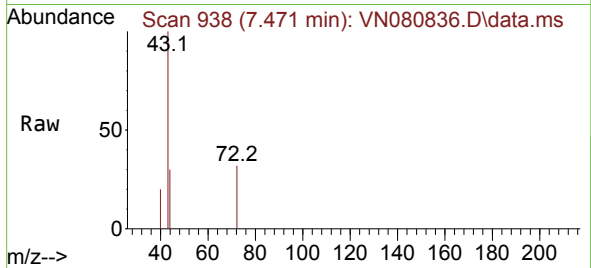




#25
2-Butanone
Concen: 4.511 ug/l
RT: 7.471 min Scan# 91
Delta R.T. -0.012 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

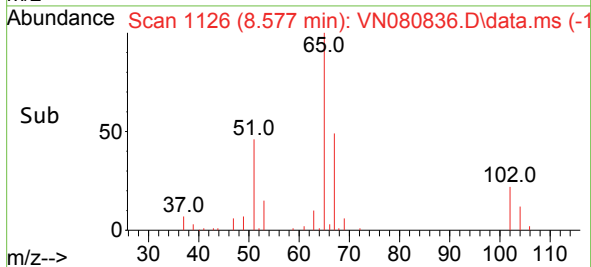
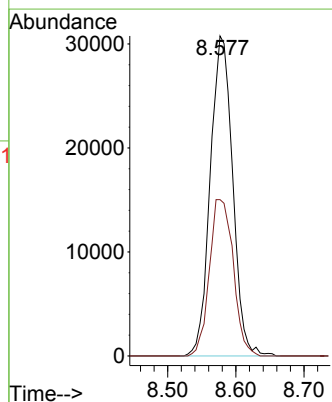
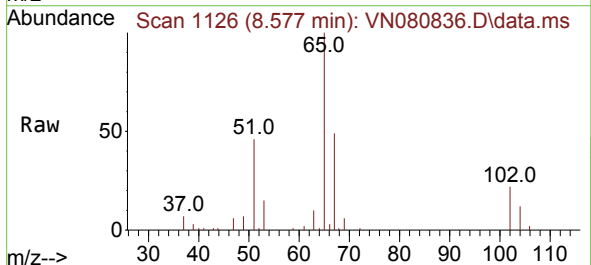
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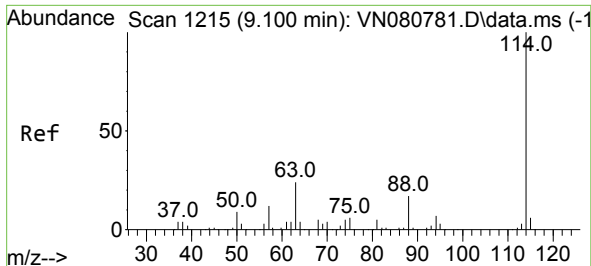
Tgt Ion: 43 Resp: 4370
Ion Ratio Lower Upper
43 100
72 32.2 19.5 29.3#



#33
1,2-Dichloroethane-d4
Concen: 49.962 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

Tgt Ion: 65 Resp: 70261
Ion Ratio Lower Upper
65 100
67 52.1 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: VN080836.D

Acq: 31 Jan 2024 13:33

Instrument :

MSVOA_N

ClientSampleId :

1248

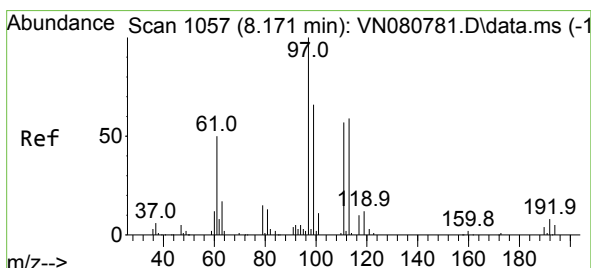
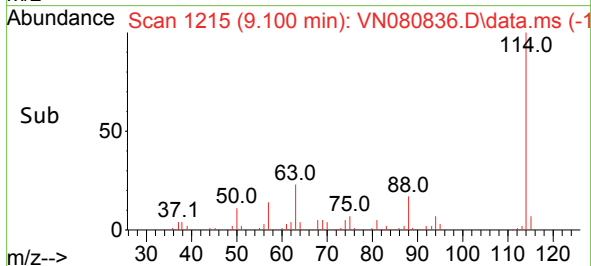
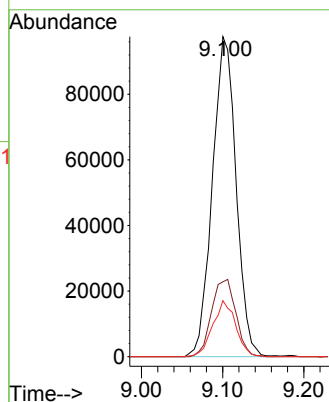
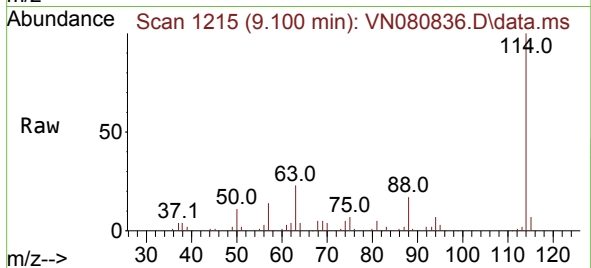
Tgt Ion:114 Resp: 198023

Ion Ratio Lower Upper

114 100

63 23.4 0.0 48.0

88 17.5 0.0 34.8



#35

Dibromofluoromethane

Concen: 45.409 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN080836.D

Acq: 31 Jan 2024 13:33

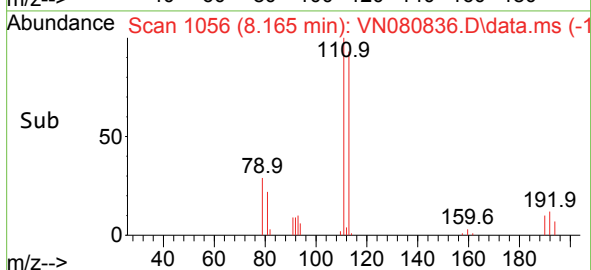
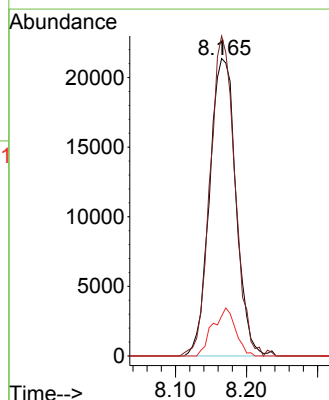
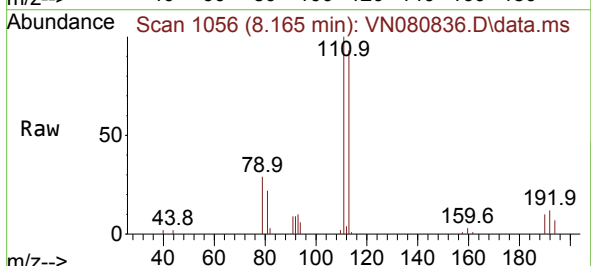
Tgt Ion:113 Resp: 55013

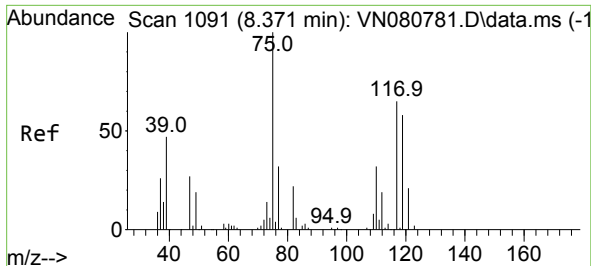
Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.4

192 13.9 12.5 18.7





#36

1,1-Dichloropropene

Concen: 4.134 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN080836.D

Acq: 31 Jan 2024 13:33

Instrument :

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ClientSampleId :

1248

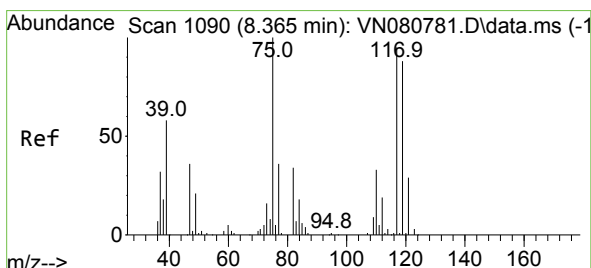
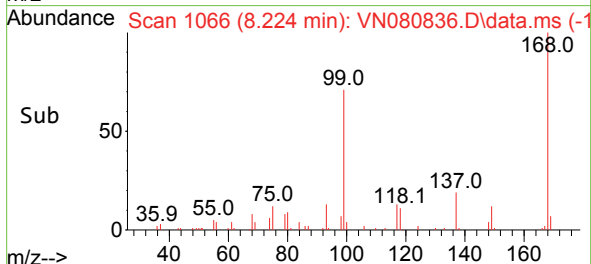
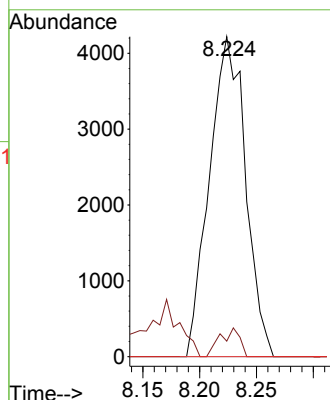
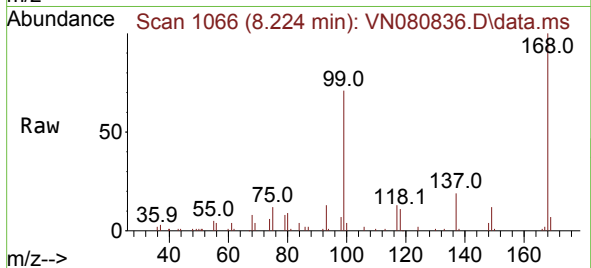
Tgt Ion: 75 Resp: 9310

Ion Ratio Lower Upper

75 100

110 4.9 16.0 48.0#

77 0.0 25.8 38.6#



#38

Carbon Tetrachloride

Concen: 5.671 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN080836.D

Acq: 31 Jan 2024 13:33

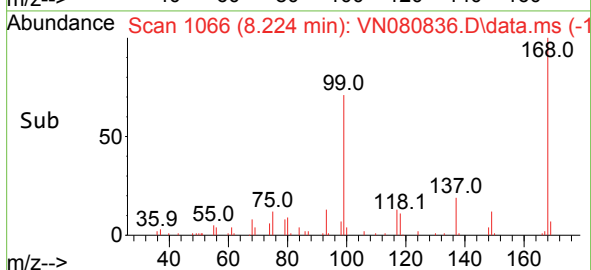
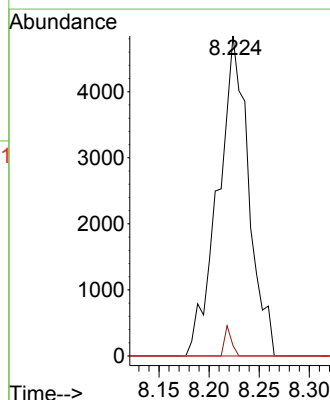
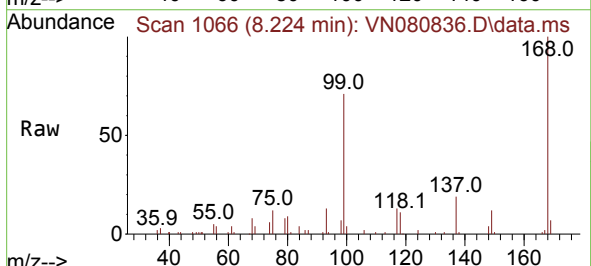
Tgt Ion: 117 Resp: 10289

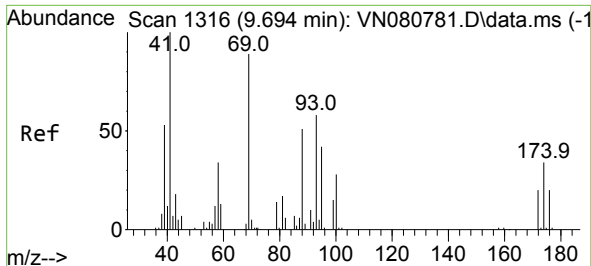
Ion Ratio Lower Upper

117 100

119 3.2 73.4 110.2#

121 0.0 24.4 36.6#





#49

1,4-Dioxane

Concen: 32.907 ug/l

RT: 9.700 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN080836.D

Acq: 31 Jan 2024 13:33

Instrument :

MSVOA_N

ClientSampleId :

1248

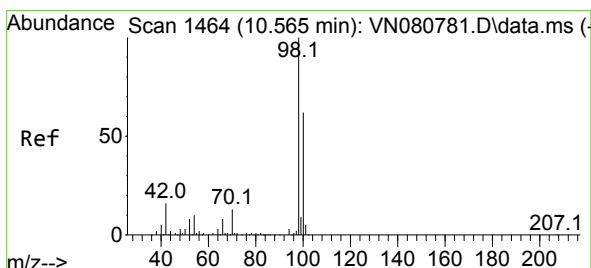
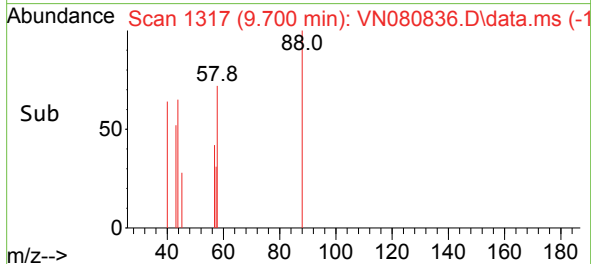
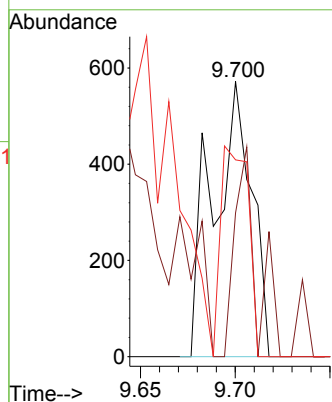
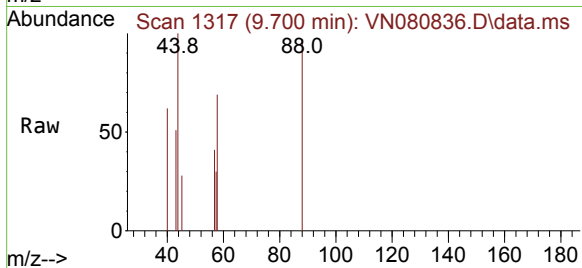
Tgt Ion: 88 Resp: 811

Ion Ratio Lower Upper

88 100

43 43.3 30.1 45.1

58 54.5 63.9 95.9#



#50

Toluene-d8

Concen: 46.629 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN080836.D

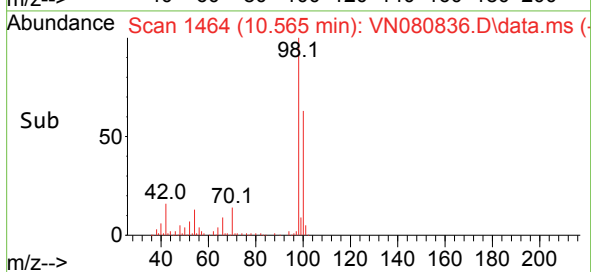
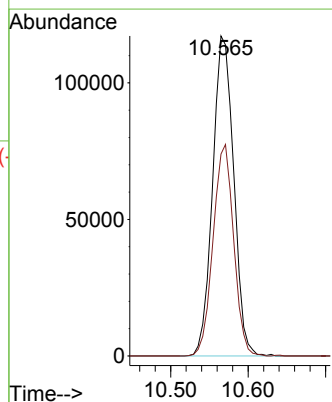
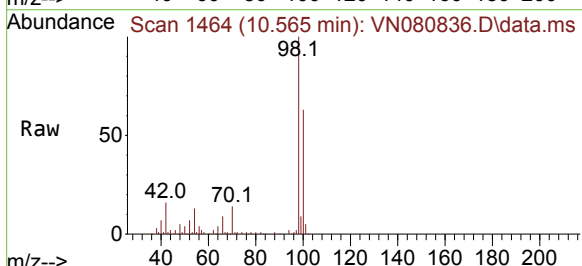
Acq: 31 Jan 2024 13:33

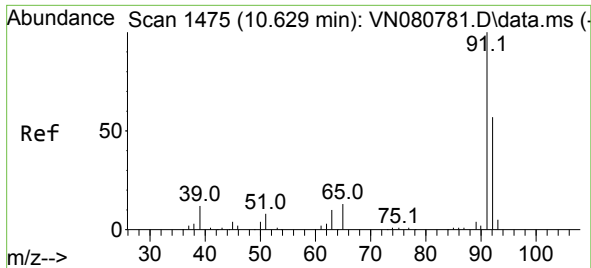
Tgt Ion: 98 Resp: 221102

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.0

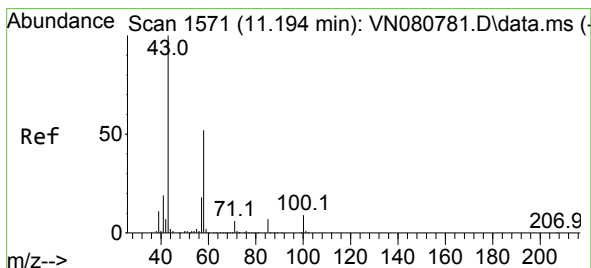
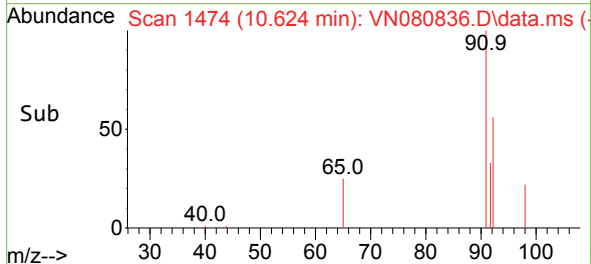
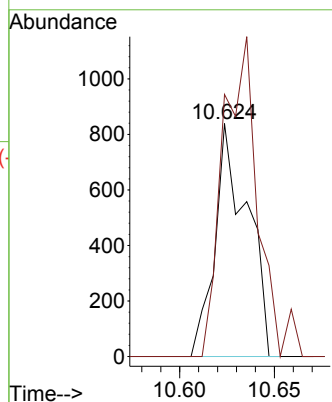
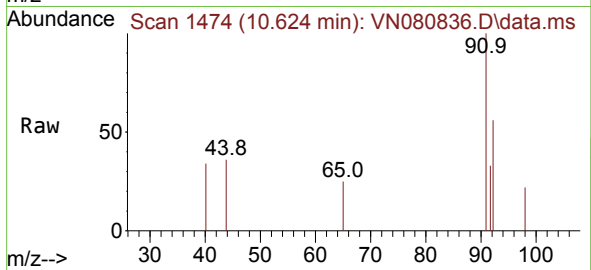




#52
Toluene
Concen: 0.263 ug/l
RT: 10.624 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

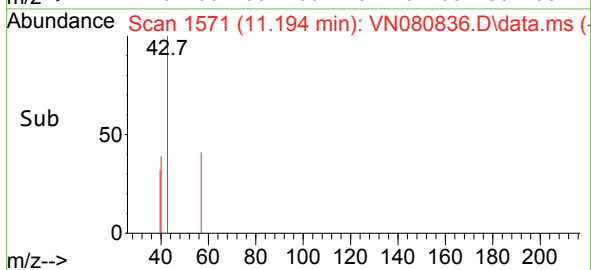
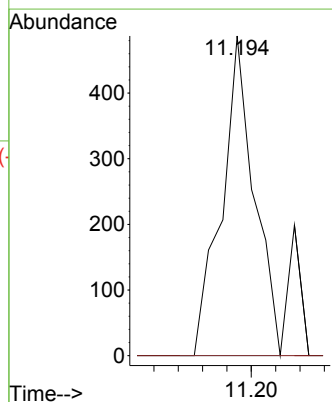
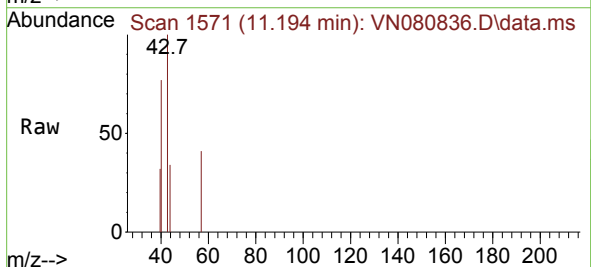
Instrument :
MSVOA_N
ClientSampleId :
1248

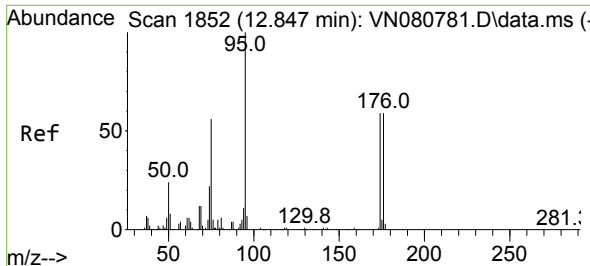
Tgt Ion: 92 Resp: 997
Ion Ratio Lower Upper
92 100
91 148.4 139.4 209.0



#59
2-Hexanone
Concen: 0.247 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

Tgt Ion: 43 Resp: 453
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#

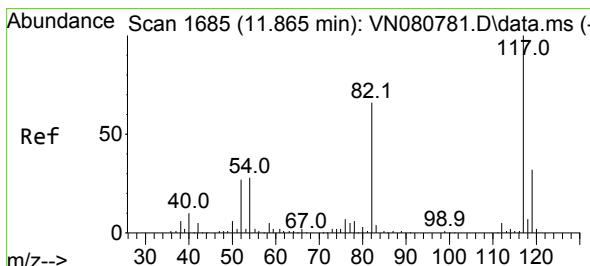
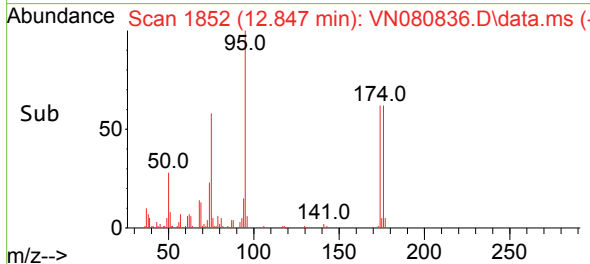
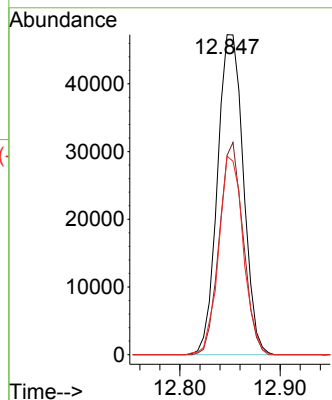
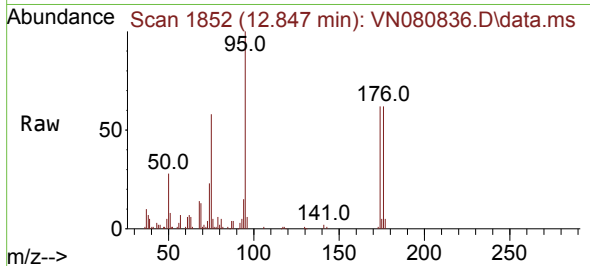




#62
4-Bromofluorobenzene
Concen: 51.103 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

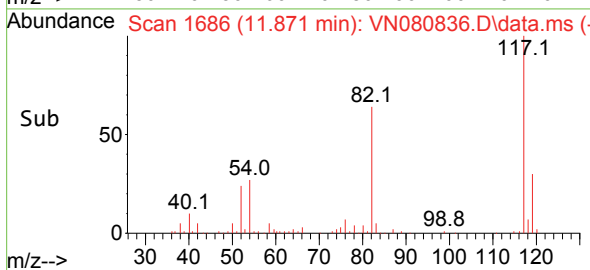
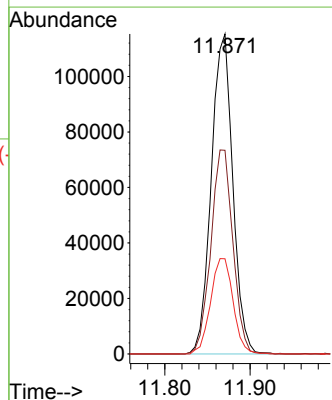
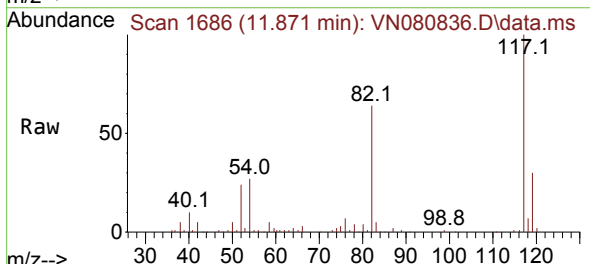
Instrument :
MSVOA_N
ClientSampleId :
1248

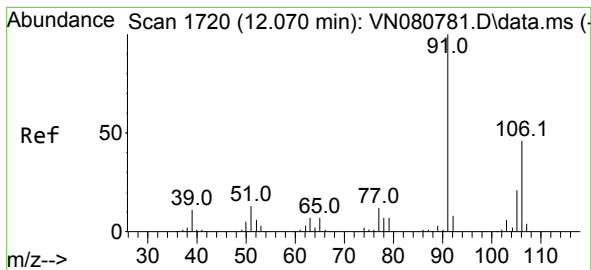
Tgt Ion: 95 Resp: 84441
Ion Ratio Lower Upper
95 100
174 61.0 0.0 120.4
176 59.2 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

Tgt Ion: 117 Resp: 201919
Ion Ratio Lower Upper
117 100
82 63.7 52.7 79.1
119 29.8 25.3 37.9

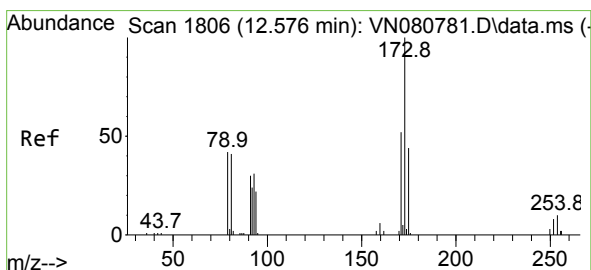
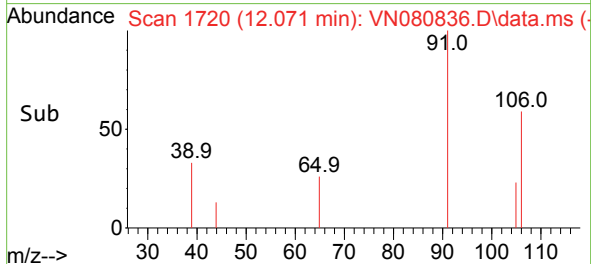
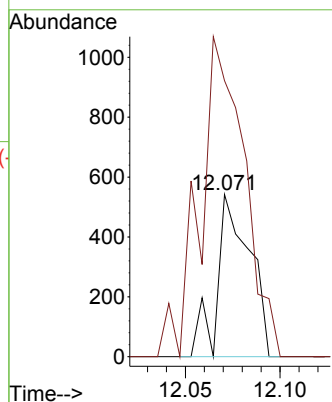
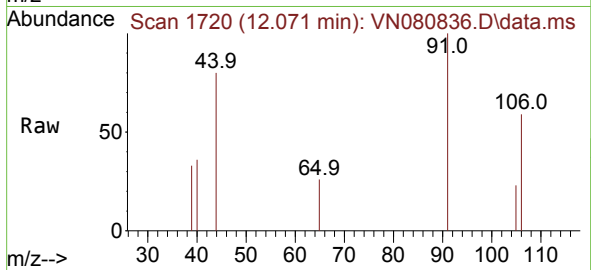




#68
m/p-Xylenes
Concen: 0.223 ug/l
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

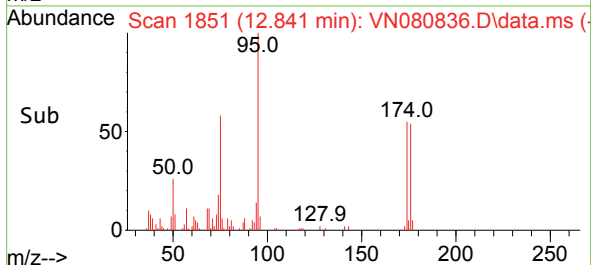
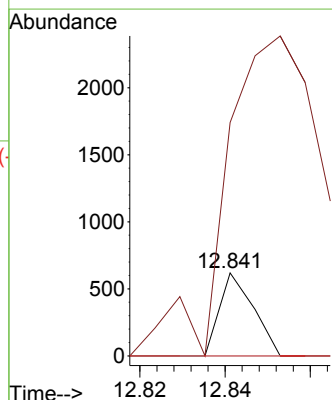
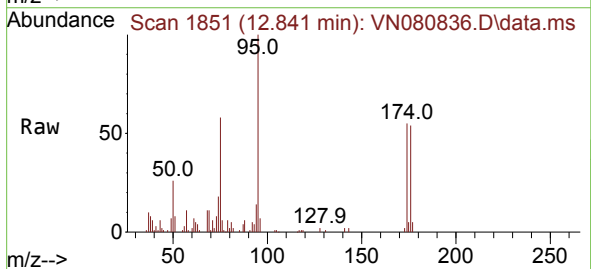
Instrument :
MSVOA_N
ClientSampleId :
1248

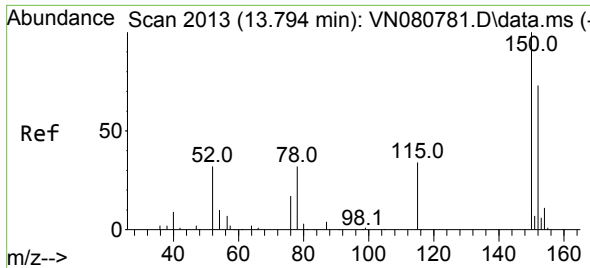
Tgt Ion:106 Resp: 649
Ion Ratio Lower Upper
106 100
91 269.3 169.0 253.6#



#71
Bromoform
Concen: 0.352 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

Tgt Ion:173 Resp: 341
Ion Ratio Lower Upper
173 100
175 0.0 23.1 69.2#
254 0.0 0.0 0.0

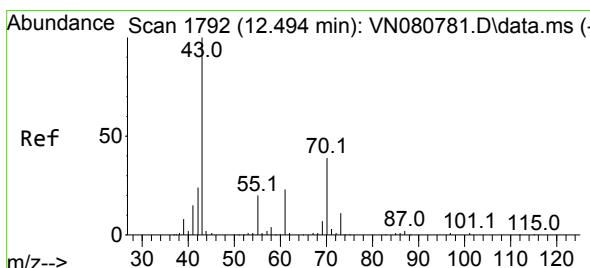
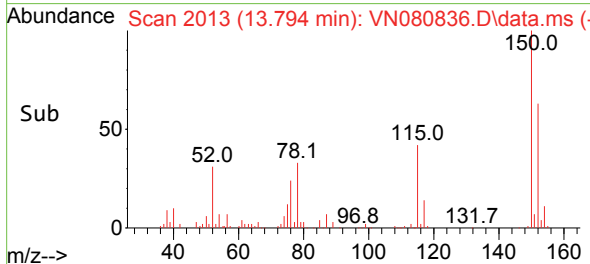
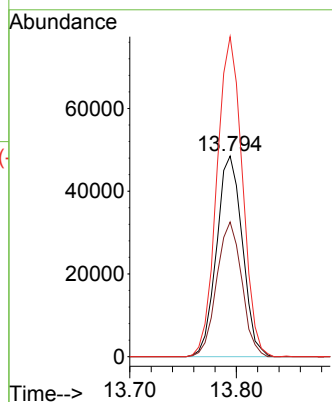
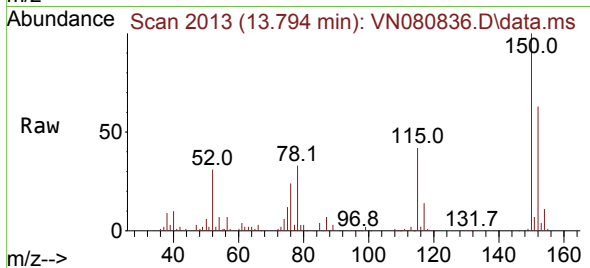




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.000 min
 Lab File: VN080836.D
 Acq: 31 Jan 2024 13:33

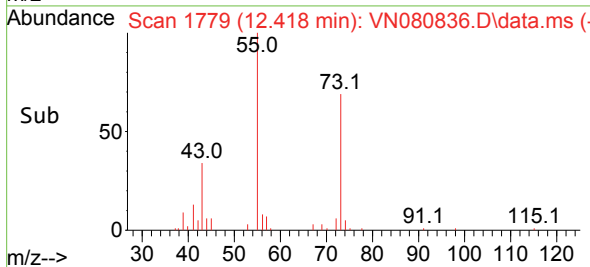
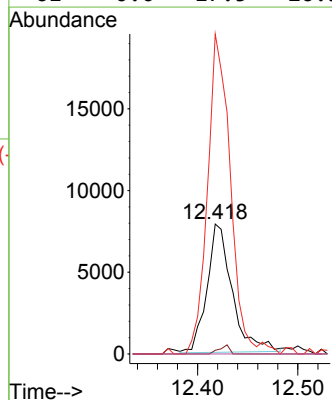
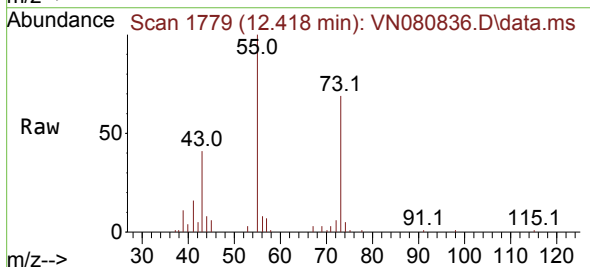
Instrument :
 MSVOA_N
 ClientSampleId :
 1248

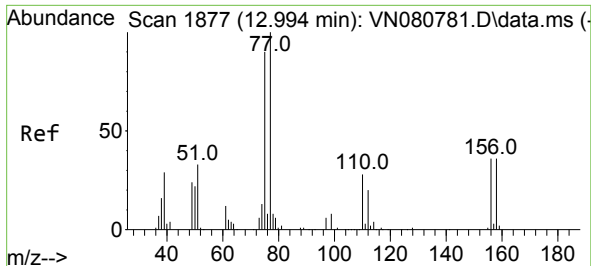
Tgt Ion:152 Resp: 81435
 Ion Ratio Lower Upper
 152 100
 115 65.2 32.3 96.8
 150 157.6 0.0 339.8



#74
 N-ethyl acetate
 Concen: 2.970 ug/l
 RT: 12.418 min Scan# 1779
 Delta R.T. -0.076 min
 Lab File: VN080836.D
 Acq: 31 Jan 2024 13:33

Tgt Ion: 43 Resp: 13751
 Ion Ratio Lower Upper
 43 100
 70 2.8 30.1 45.1#
 55 227.0 17.0 25.4#
 61 0.0 17.5 26.3#

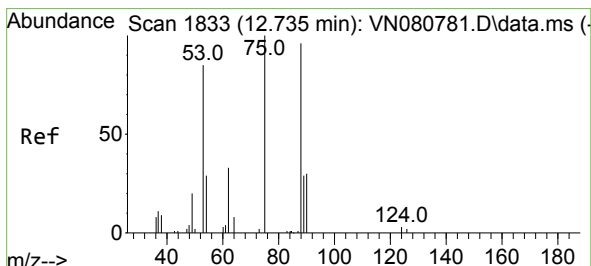
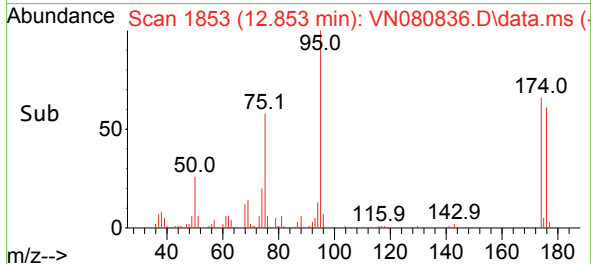
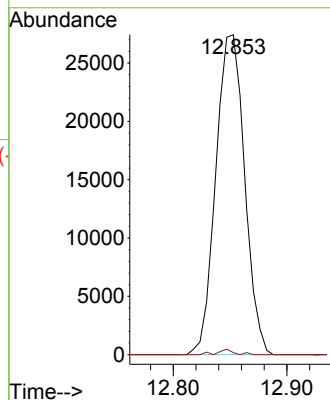
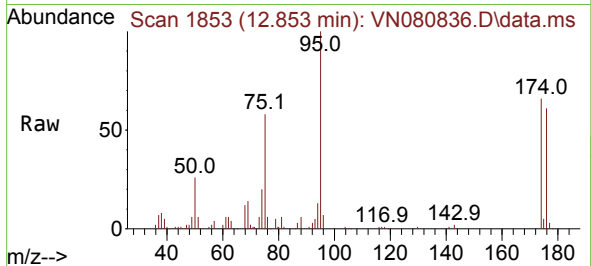




#76
1,2,3-Trichloropropane
Concen: 19.700 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

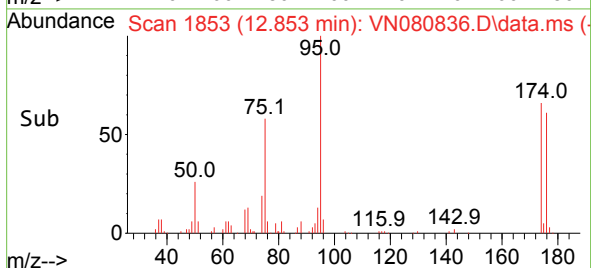
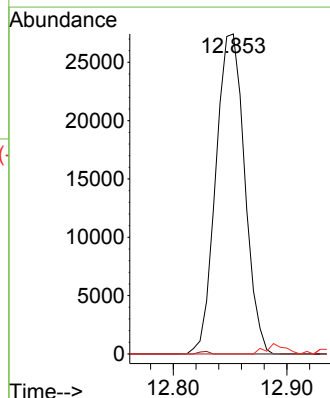
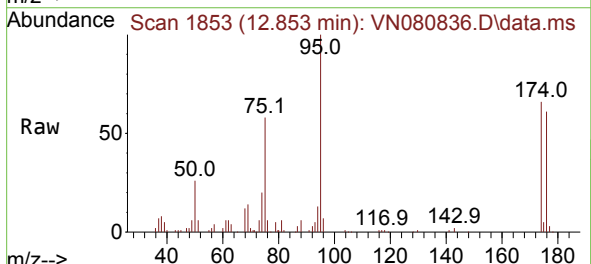
Instrument :
MSVOA_N
ClientSampleId :
1248

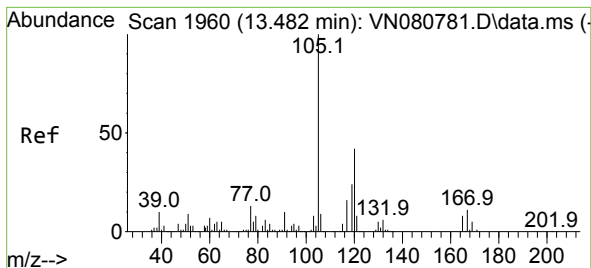
Tgt Ion: 75 Resp: 48385
Ion Ratio Lower Upper
75 100
77 0.9 91.0 272.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 50.751 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

Tgt Ion: 75 Resp: 48385
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.2#
89 0.0 33.4 50.0#





#84

1,2,4-Trimethylbenzene

Concen: 0.245 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN080836.D

Acq: 31 Jan 2024 13:33

Instrument :

MSVOA_N

ClientSampleId :

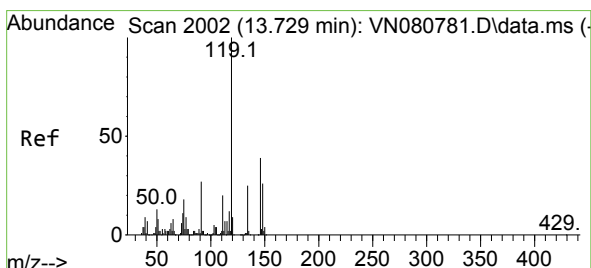
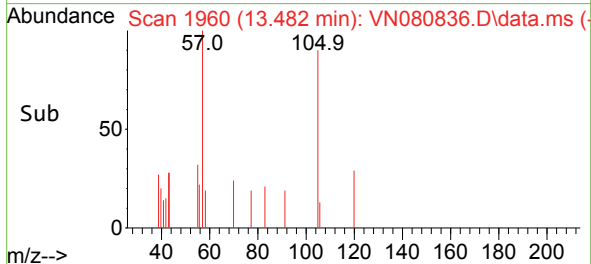
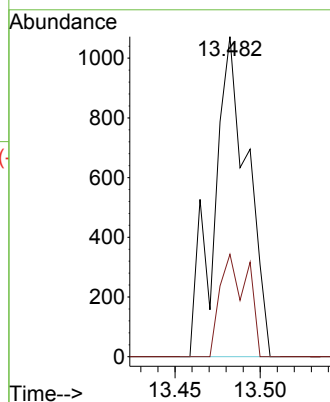
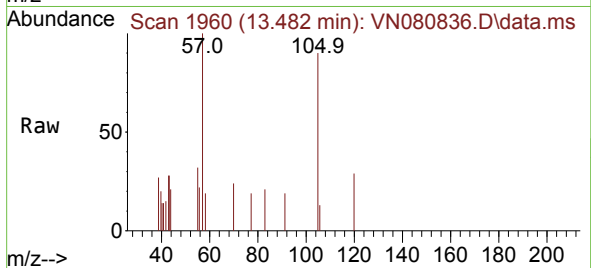
1248

Tgt Ion:105 Resp: 1475

Ion Ratio Lower Upper

105 100

120 26.0 20.9 62.7



#86

p-Isopropyltoluene

Concen: 0.247 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN080836.D

Acq: 31 Jan 2024 13:33

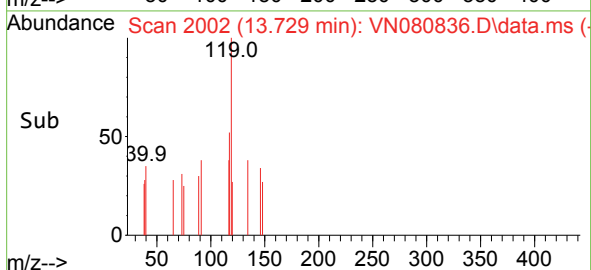
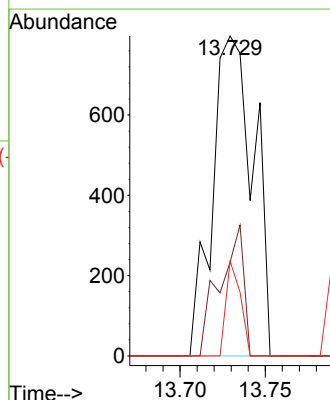
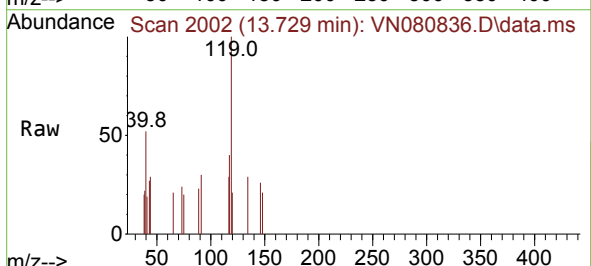
Tgt Ion:119 Resp: 1344

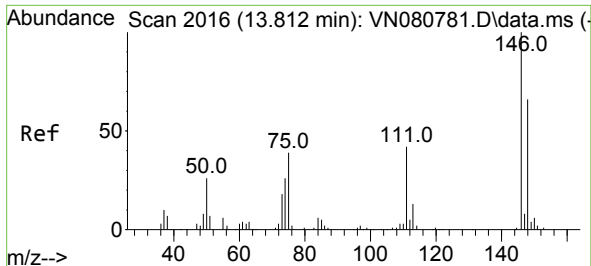
Ion Ratio Lower Upper

119 100

134 23.7 12.4 37.2

91 10.3 13.5 40.4#

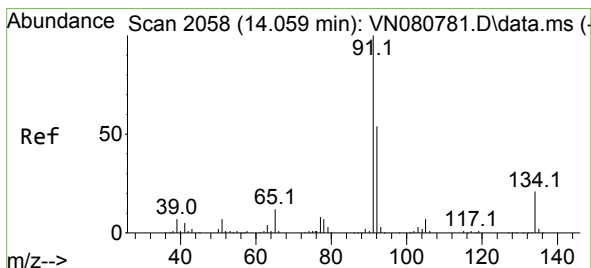
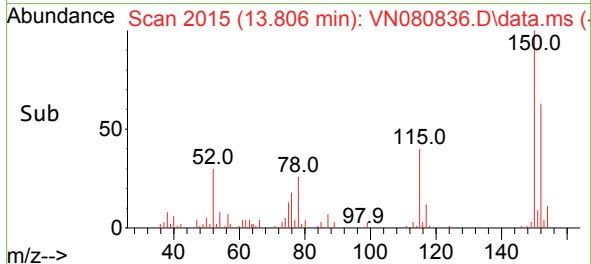
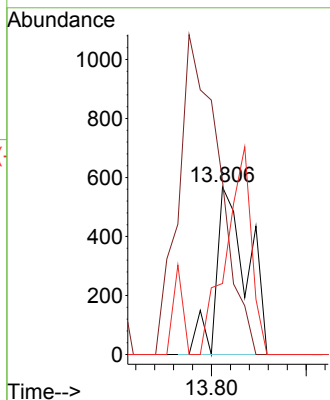
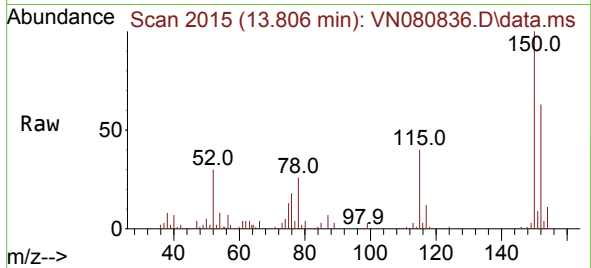




#88
1,4-Dichlorobenzene
Concen: 0.226 ug/l
RT: 13.806 min Scan# 2016
Delta R.T. -0.006 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

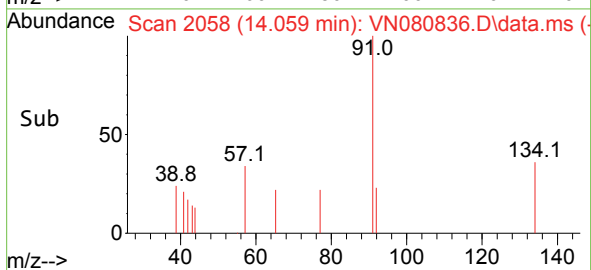
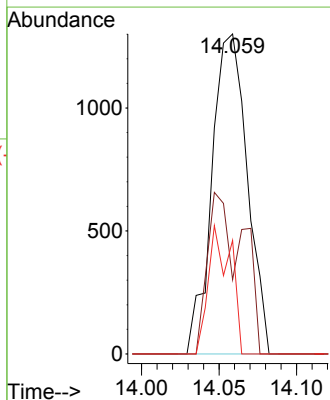
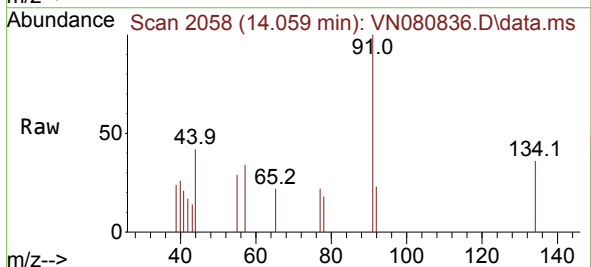
Instrument :
MSVOA_N
ClientSampleId :
1248

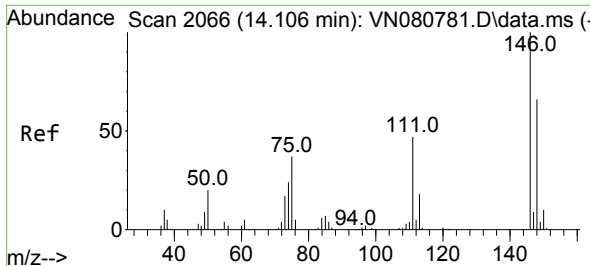
Tgt Ion:146 Resp: 646
Ion Ratio Lower Upper
146 100
111 0.0 22.6 67.7#
148 102.0 31.9 95.5#



#89
n-Butylbenzene
Concen: 0.389 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

Tgt Ion: 91 Resp: 2067
Ion Ratio Lower Upper
91 100
92 49.5 26.7 80.1
134 25.4 10.8 32.4

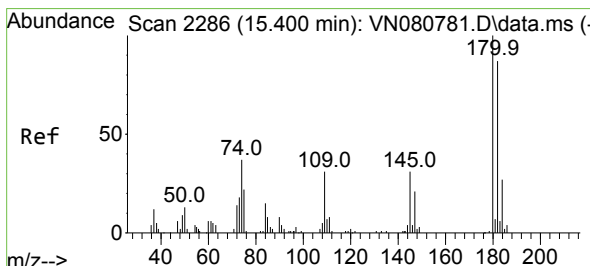
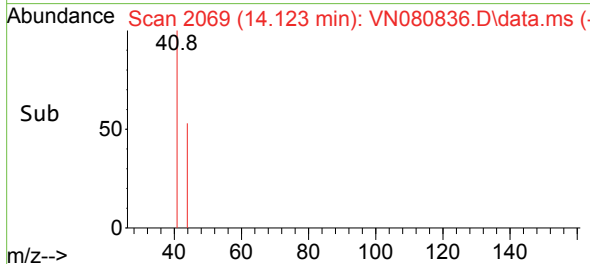
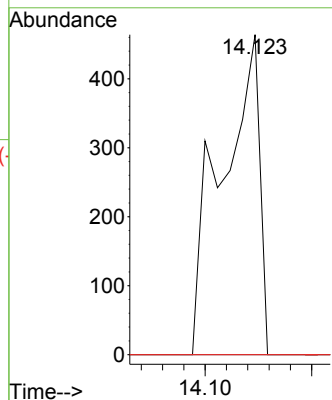
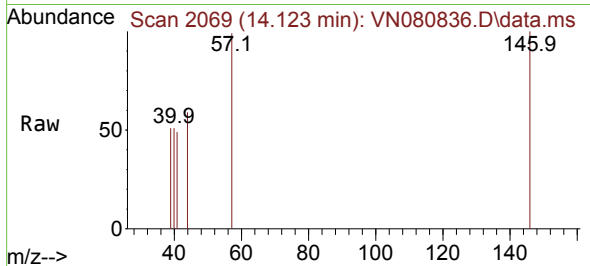




#91
1,2-Dichlorobenzene
Concen: 0.220 ug/l
RT: 14.123 min Scan# 2069
Delta R.T. 0.018 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

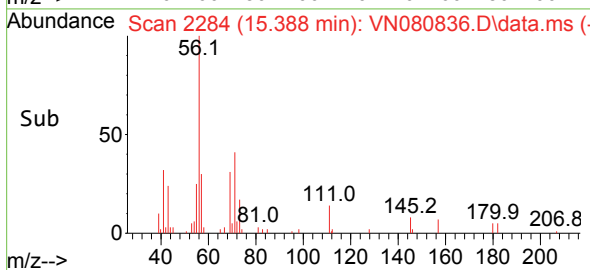
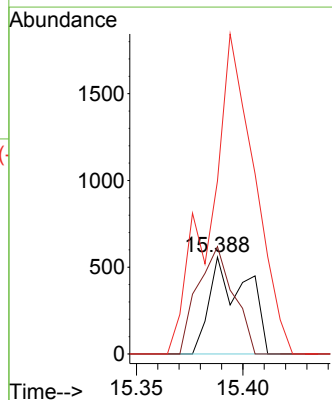
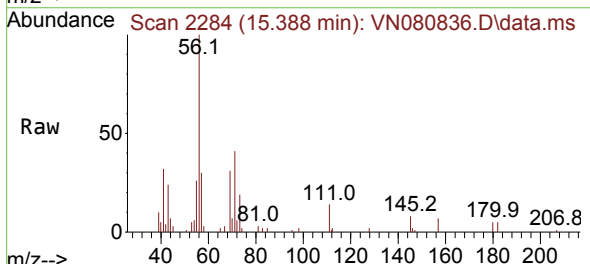
Instrument :
MSVOA_N
ClientSampleId :
1248

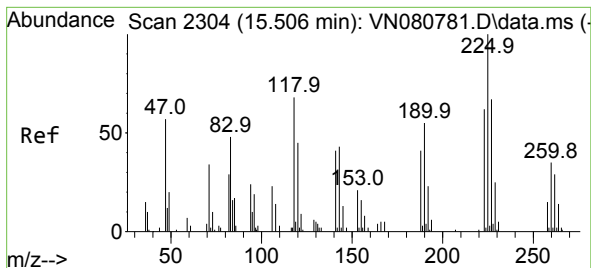
Tgt Ion:146 Resp: 573
Ion Ratio Lower Upper
146 100
111 0.0 23.9 71.8#
148 0.0 31.4 94.0#



#93
1,2,4-Trichlorobenzene
Concen: 0.497 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.012 min
Lab File: VN080836.D
Acq: 31 Jan 2024 13:33

Tgt Ion:180 Resp: 667
Ion Ratio Lower Upper
180 100
182 109.0 46.6 139.7
145 403.4 16.8 50.3#





#94

Hexachlorobutadiene

Concen: 0.375 ug/l

RT: 15.512 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN080836.D

Acq: 31 Jan 2024 13:33

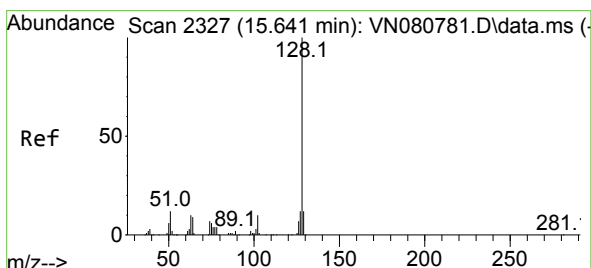
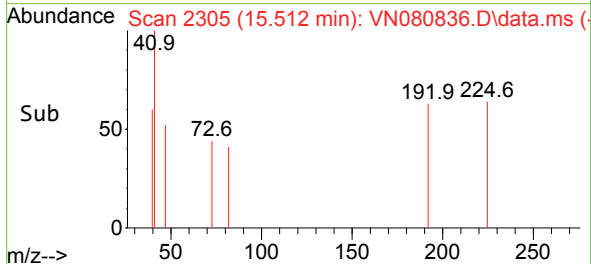
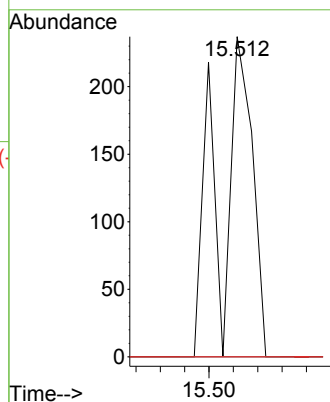
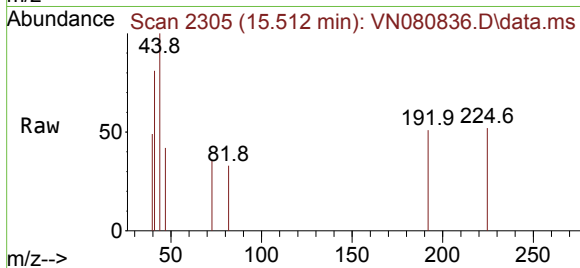
Instrument :

MSVOA_N

ClientSampleId :

1248

Tgt Ion:	225	Resp:	220
Ion Ratio	Lower	Upper	
225	100		
223	0.0	33.3	99.8#
227	0.0	33.1	99.2#



#95

Naphthalene

Concen: 0.697 ug/l

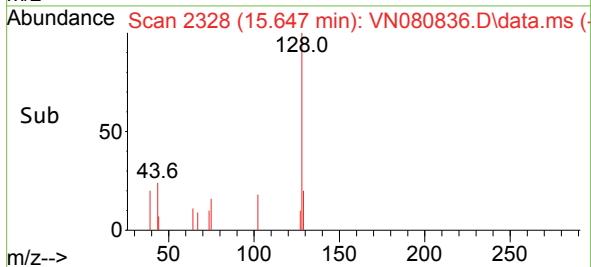
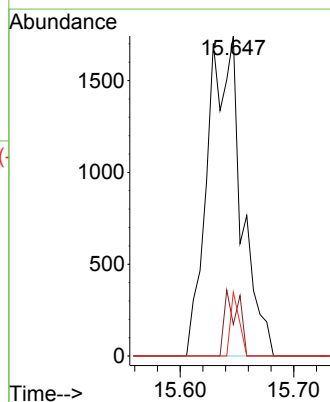
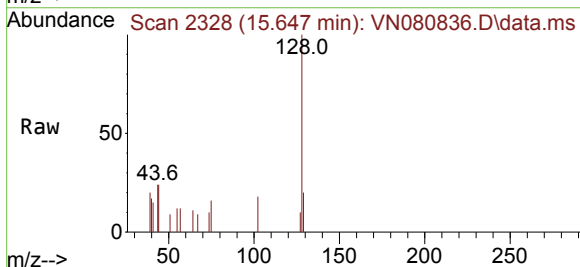
RT: 15.647 min Scan# 2328

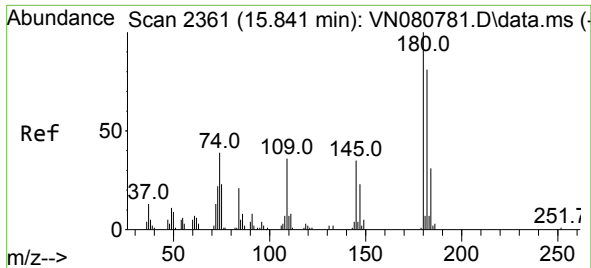
Delta R.T. 0.006 min

Lab File: VN080836.D

Acq: 31 Jan 2024 13:33

Tgt Ion:	128	Resp:	3585
Ion Ratio	Lower	Upper	
128	100		
127	8.5	10.0	15.0#
129	5.2	8.7	13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.274 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN080836.D
 Acq: 31 Jan 2024 13:33

Instrument :
 MSVOA_N
 ClientSampleId :
 1248

Tgt Ion	Ratio	Lower	Upper
180	100		
182	196.4	46.5	139.3#
145	75.4	17.8	53.4#

