

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121323\
 Data File : VN080455.D
 Acq On : 13 Dec 2023 12:32
 Operator : JC\MD
 Sample : 05691-03DL 40X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 14 04:04:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 13 01:57:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	190133	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	345197	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	362010	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	164781	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	151278	62.295	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 124.580%	
35) Dibromofluoromethane	8.165	113	128219	58.583	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 117.160%	
50) Toluene-d8	10.565	98	457297	56.023	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 112.040%	
62) 4-Bromofluorobenzene	12.847	95	187820	60.595	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 121.200%	

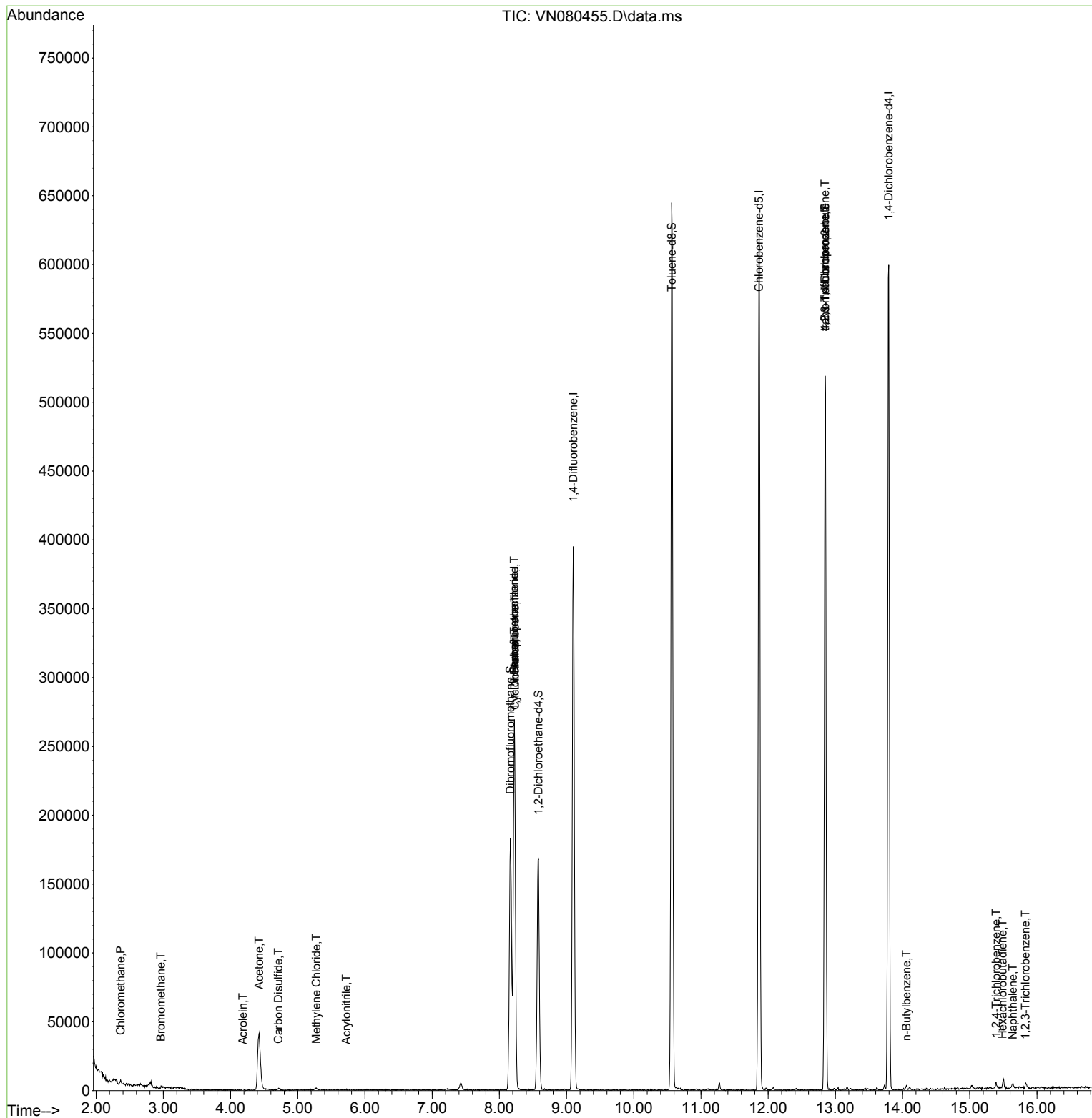
Target Compounds				Qvalue		
3) Chloromethane	2.365	50	3065	0.810	ug/l	95
5) Bromomethane	2.965	94	222	0.237	ug/l	83
13) Acrolein	4.183	56	653	2.085	ug/l #	83
15) Acrylonitrile	5.724	53	289	0.358	ug/l #	35
16) Acetone	4.424	43	76807	178.377	ug/l	98
17) Carbon Disulfide	4.712	76	2295	0.396	ug/l #	75
20) Methylene Chloride	5.277	84	947	0.411	ug/l #	45
31) Cyclohexane	8.230	56	4127	1.250	ug/l #	37
36) 1,1-Dichloropropene	8.230	75	14131	3.949	ug/l #	52
38) Carbon Tetrachloride	8.224	117	20204	4.725	ug/l #	15
76) 1,2,3-Trichloropropane	12.847	75	104159	31.685	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	104159	83.192	ug/l #	15
89) n-Butylbenzene	14.059	91	2228	0.247	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	1463	0.484	ug/l	89
94) Hexachlorobutadiene	15.488	225	1468	0.852	ug/l	90
95) Naphthalene	15.641	128	3999	0.435	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.829	180	1246	0.427	ug/l	72

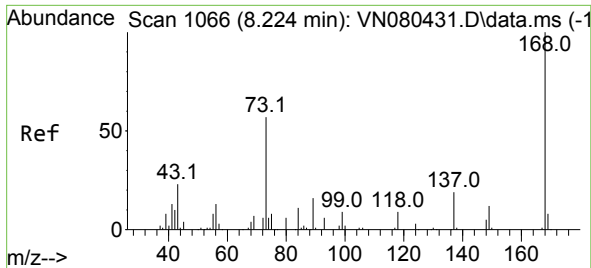
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 14 04:04:44 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 13 01:57:14 2023
Response via : Initial Calibration

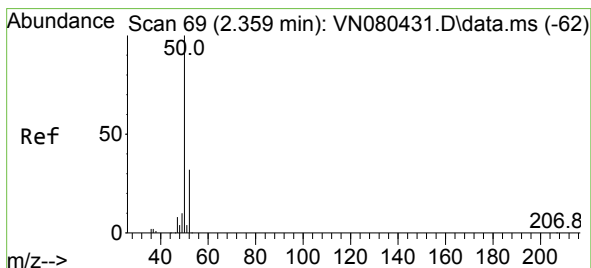
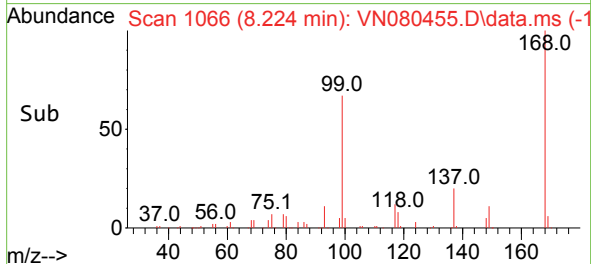
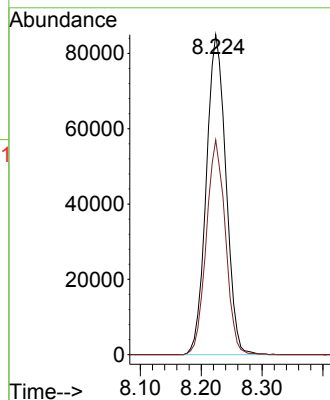
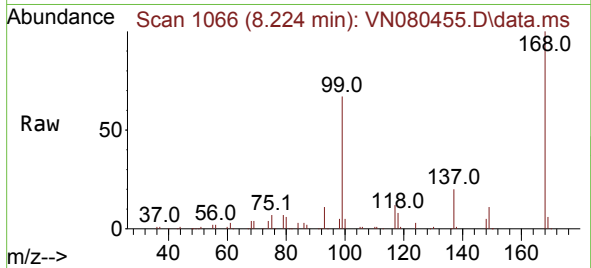




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

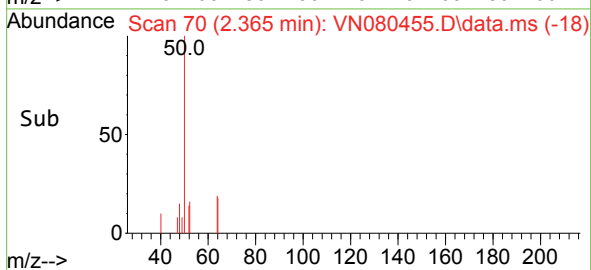
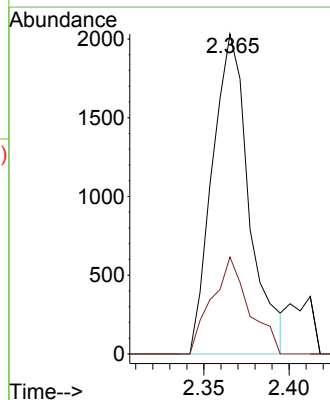
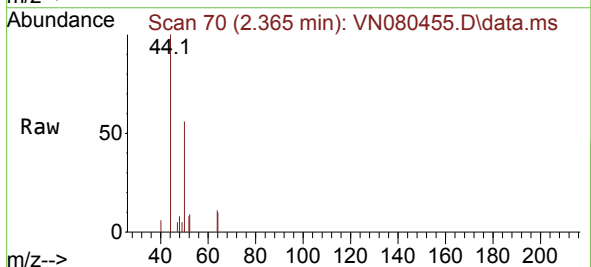
Instrument :
MSVOA_N
ClientSampleId :

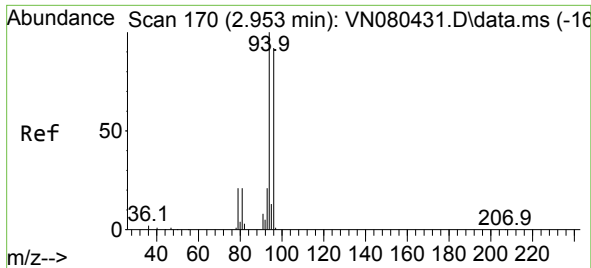
Tgt Ion:168 Resp: 190133
Ion Ratio Lower Upper
168 100
99 67.1 53.0 79.6



#3
Chloromethane
Concen: 0.810 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

Tgt Ion: 50 Resp: 3065
Ion Ratio Lower Upper
50 100
52 30.3 26.5 39.7

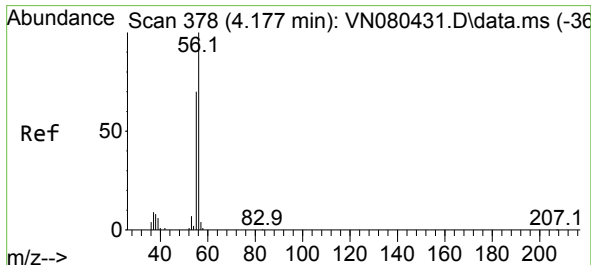
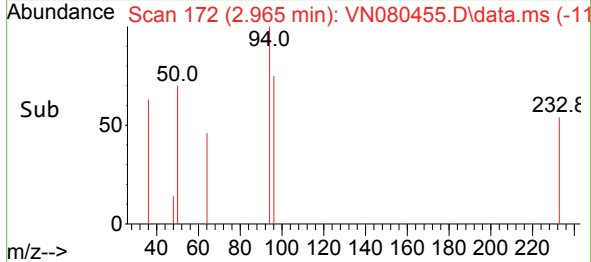
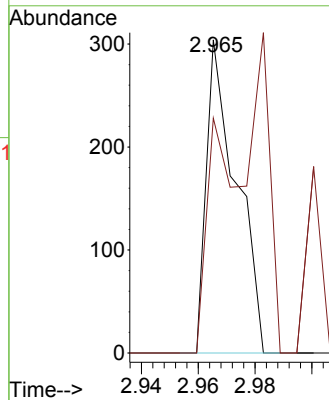
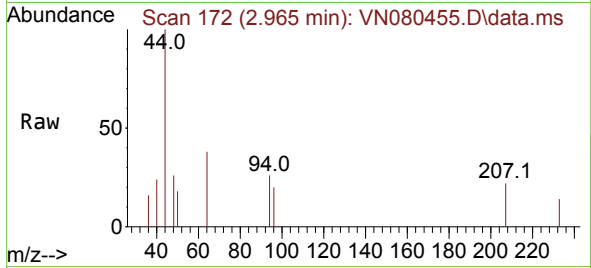




#5
Bromomethane
Concen: 0.237 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

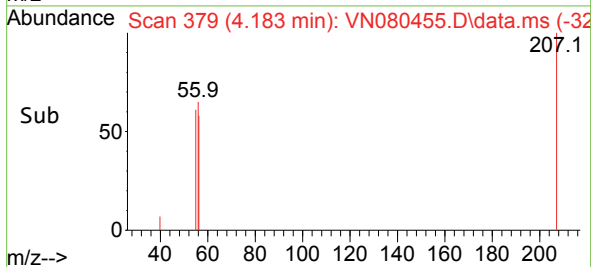
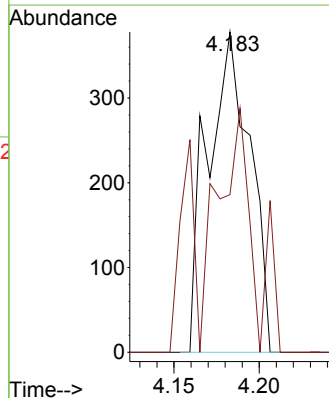
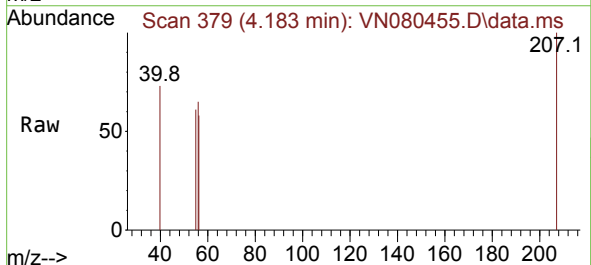
Instrument :
MSVOA_N
ClientSampleId :

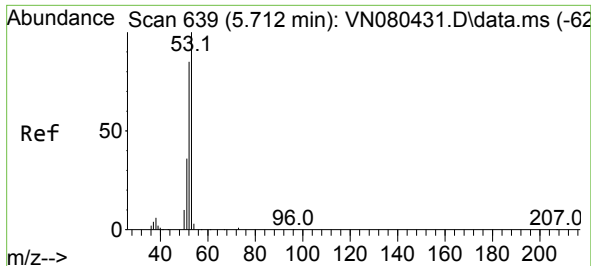
Tgt Ion: 94 Resp: 222
Ion Ratio Lower Upper
94 100
96 75.0 73.1 109.7



#13
Acrolein
Concen: 2.085 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

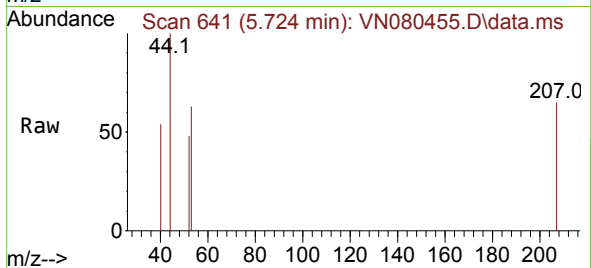
Tgt Ion: 56 Resp: 653
Ion Ratio Lower Upper
56 100
55 54.4 54.5 81.7#



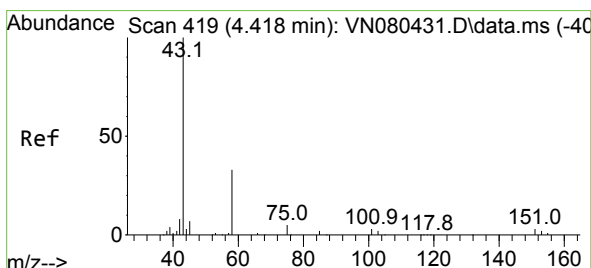
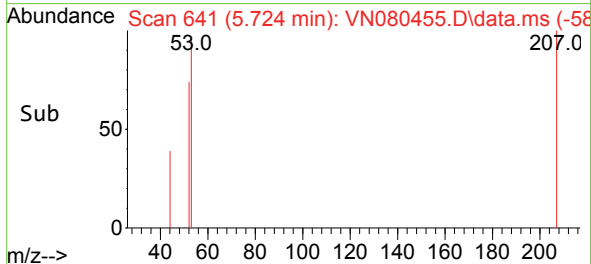
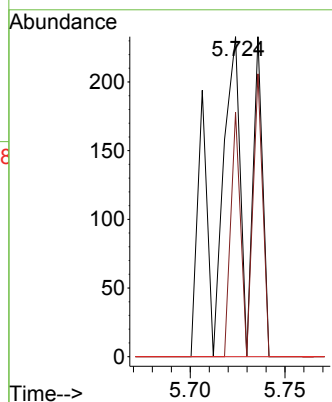


#15
Acrylonitrile
Concen: 0.358 ug/l
RT: 5.724 min Scan# 641
Delta R.T. 0.012 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

Instrument :
MSVOA_N
ClientSampleId :

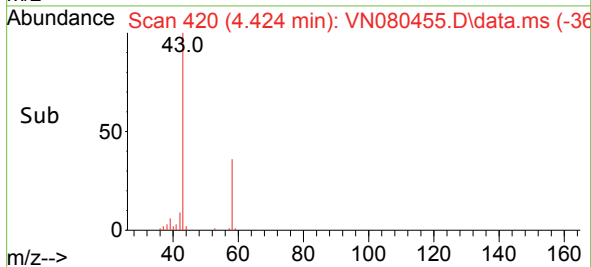
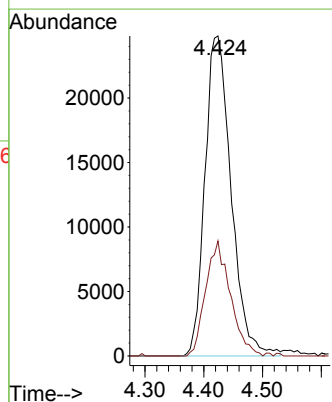
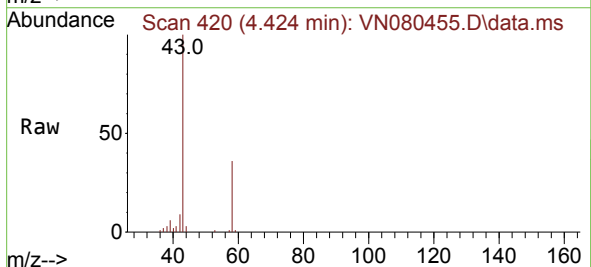


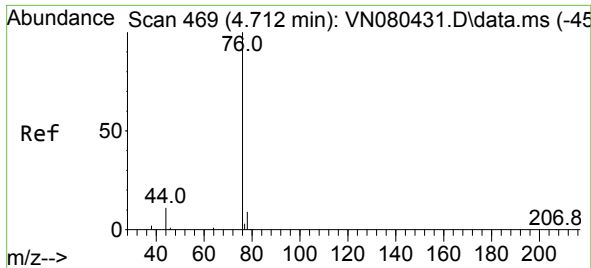
Tgt Ion: 53 Resp: 289
Ion Ratio Lower Upper
53 100
52 21.8 65.3 97.9#
51 0.0 28.9 43.3#



#16
Acetone
Concen: 178.377 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

Tgt Ion: 43 Resp: 76807
Ion Ratio Lower Upper
43 100
58 35.9 28.0 42.0

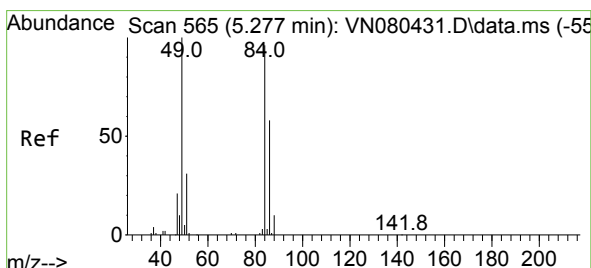
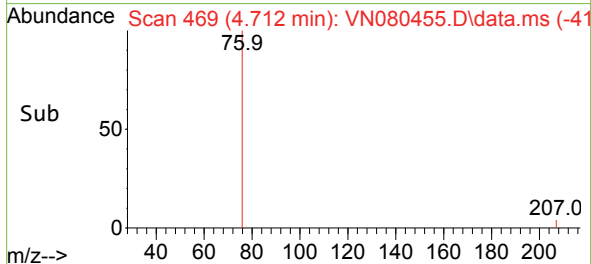
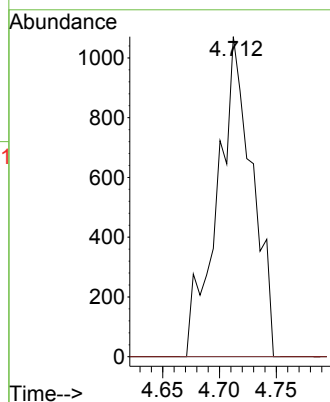
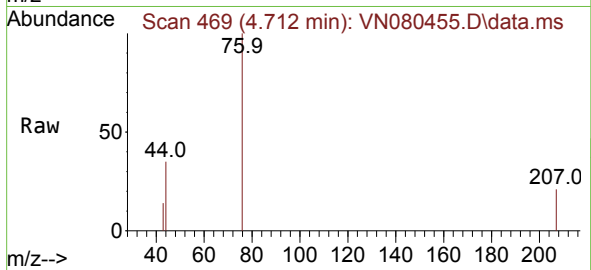




#17
Carbon Disulfide
Concen: 0.396 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

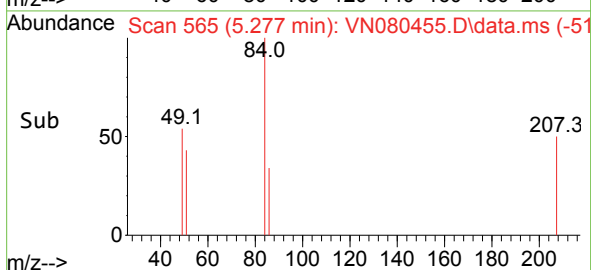
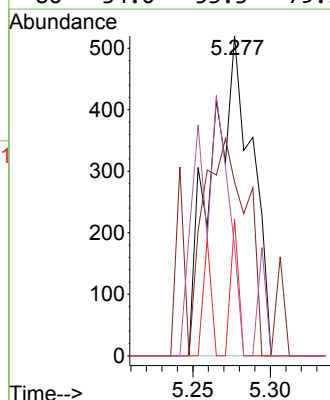
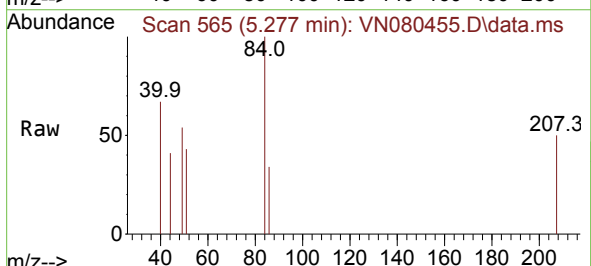
Instrument :
MSVOA_N
ClientSampleId :

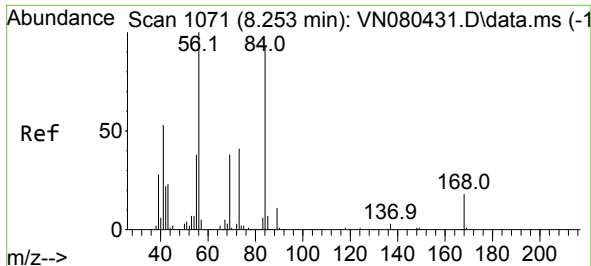
Tgt Ion: 76 Resp: 2295
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#20
Methylene Chloride
Concen: 0.411 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

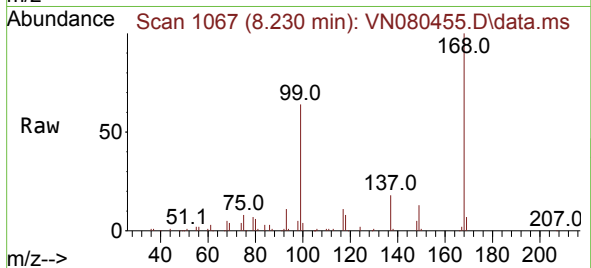
Tgt Ion: 84 Resp: 947
Ion Ratio Lower Upper
84 100
49 23.3 79.7 119.5#
51 42.7 25.2 37.8#
86 34.0 53.3 79.9#



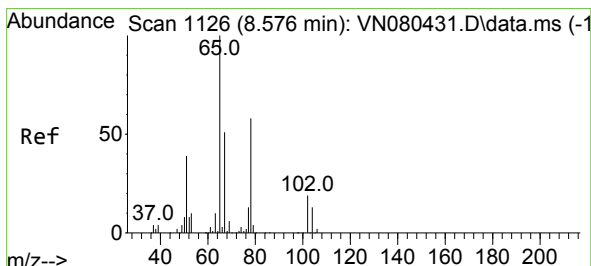
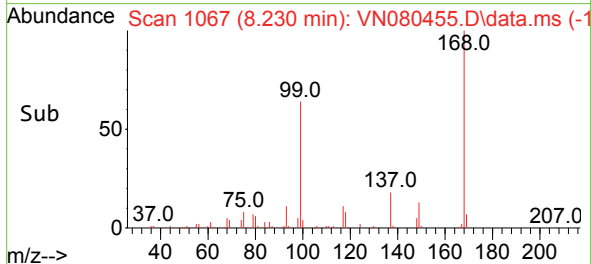
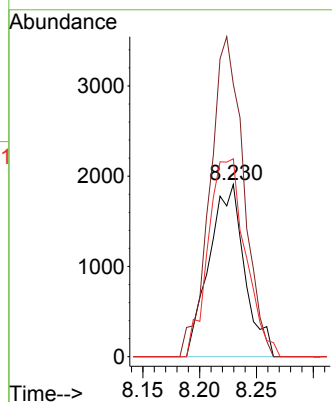


#31
Cyclohexane
Concen: 1.250 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.023 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

Instrument :
MSVOA_N
ClientSampleId :

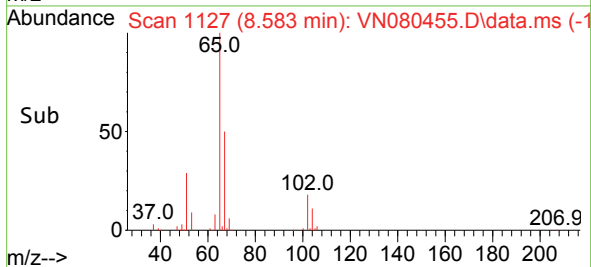
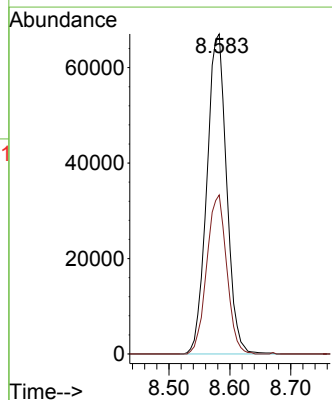
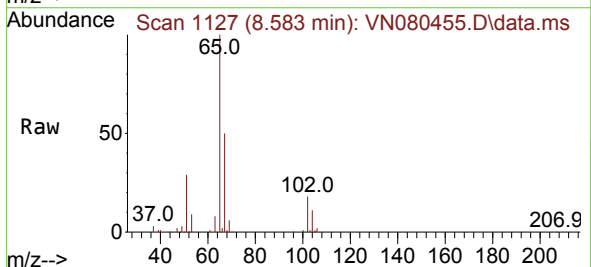


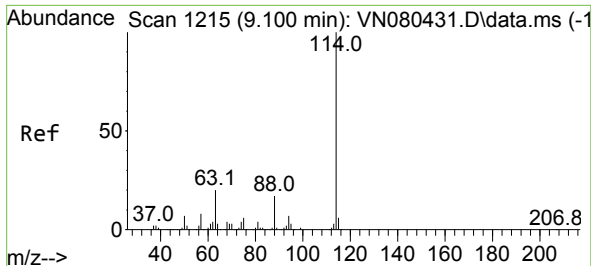
Tgt Ion: 56 Resp: 4127
Ion Ratio Lower Upper
56 100
69 158.1 26.8 40.2#
84 114.9 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 62.295 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

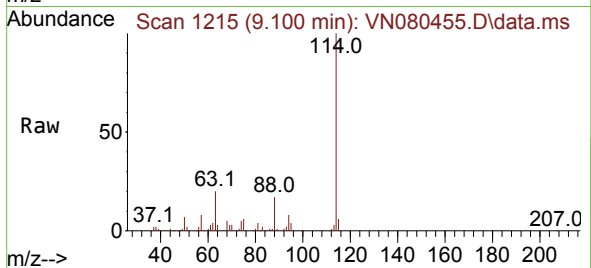
Tgt Ion: 65 Resp: 151278
Ion Ratio Lower Upper
65 100
67 50.1 0.0 106.6



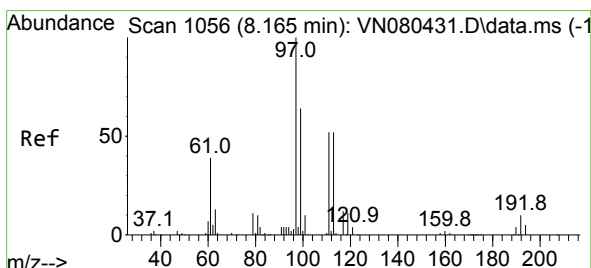
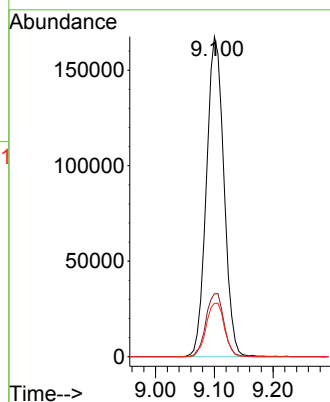
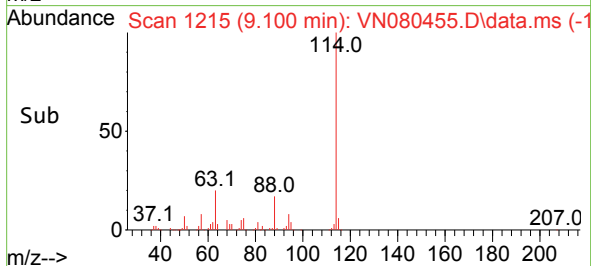


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 114
Delta R.T. 0.000 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

Instrument :
MSVOA_N
ClientSampleId :

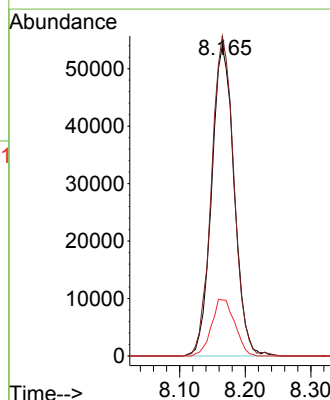
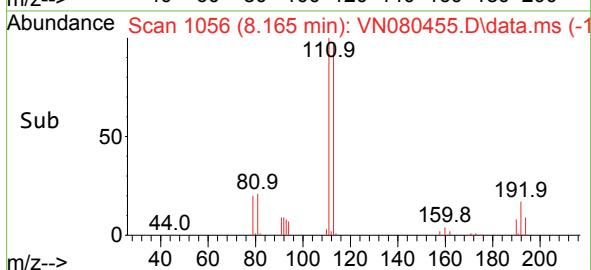
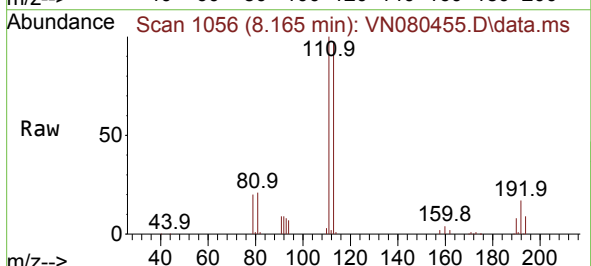


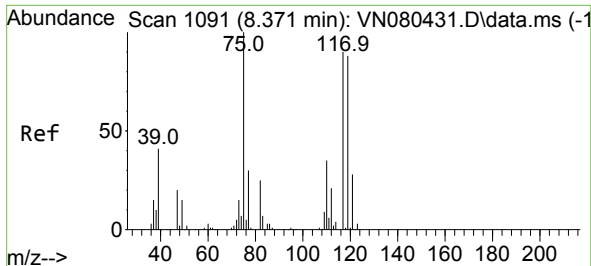
Tgt Ion:114 Resp: 345197
Ion Ratio Lower Upper
114 100
63 19.7 0.0 36.4
88 16.6 0.0 30.6



#35
Dibromofluoromethane
Concen: 58.583 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

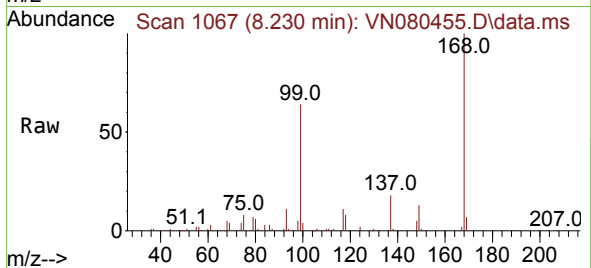
Tgt Ion:113 Resp: 128219
Ion Ratio Lower Upper
113 100
111 103.3 82.6 123.8
192 18.9 12.7 19.1



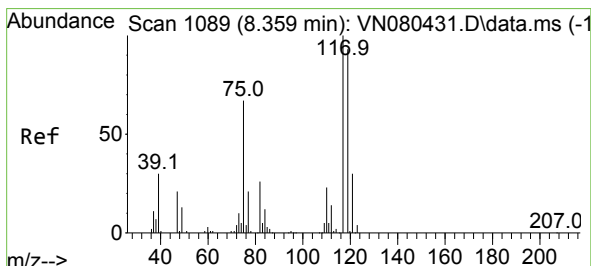
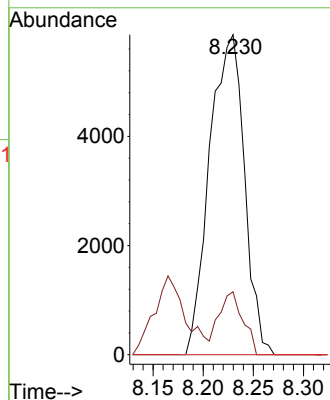
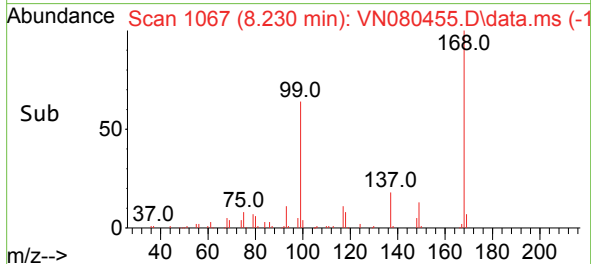


#36
1,1-Dichloropropene
Concen: 3.949 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

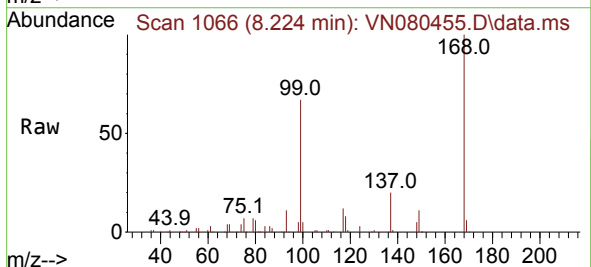
Instrument :
MSVOA_N
ClientSampleId :



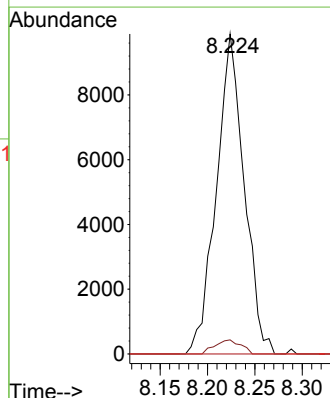
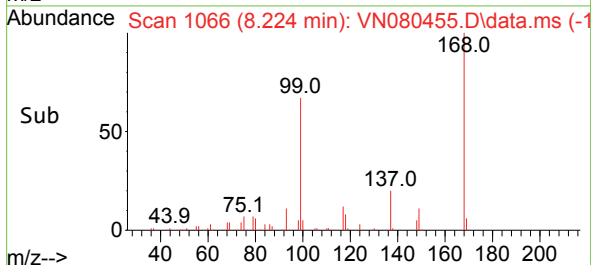
Tgt Ion: 75 Resp: 14131
Ion Ratio Lower Upper
75 100
110 13.5 19.1 57.3#
77 0.0 25.0 37.4#

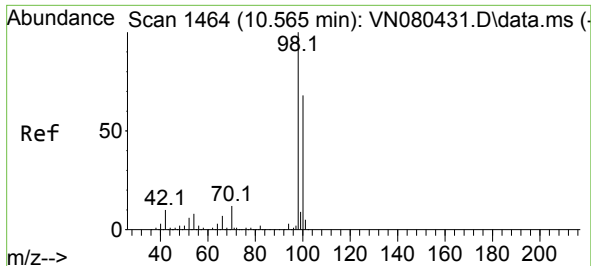


#38
Carbon Tetrachloride
Concen: 4.725 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32



Tgt Ion: 117 Resp: 20204
Ion Ratio Lower Upper
117 100
119 4.4 77.3 115.9#
121 0.0 23.3 34.9#

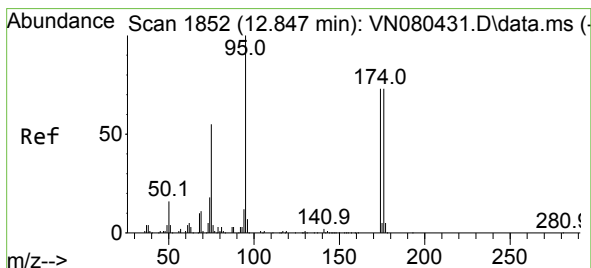
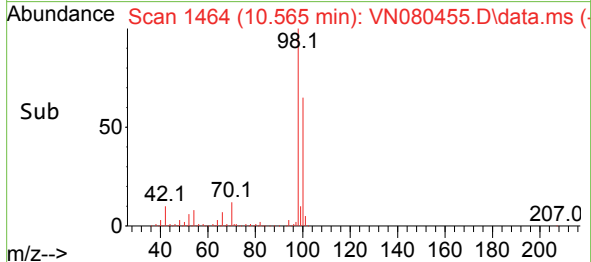
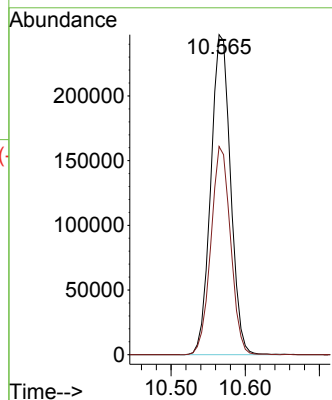
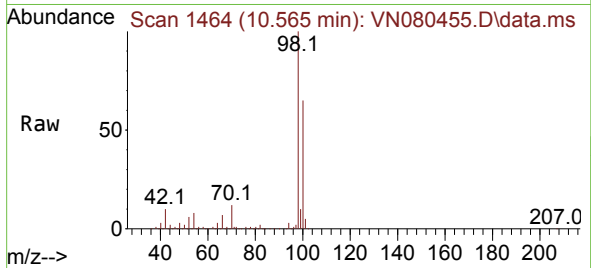




#50
Toluene-d8
Concen: 56.023 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

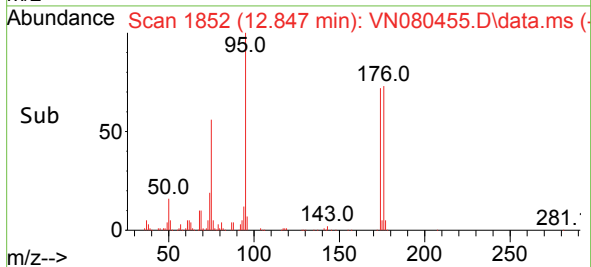
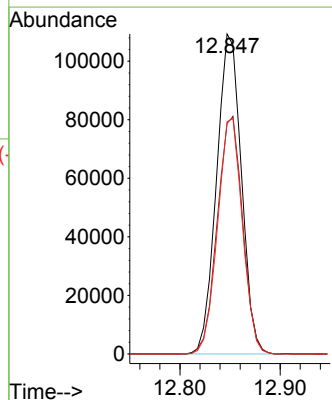
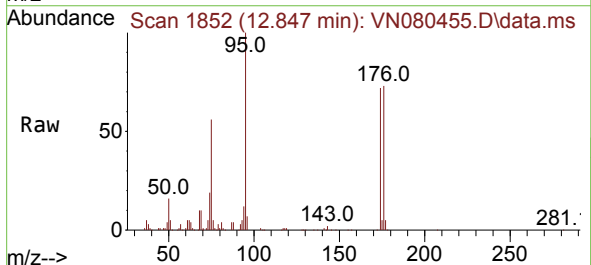
Instrument :
MSVOA_N
ClientSampleId :

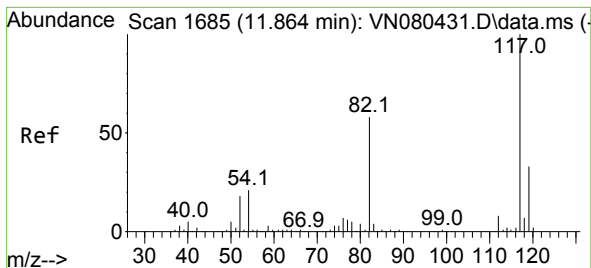
Tgt Ion: 98 Resp: 457297
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 60.595 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080455.D
Acq: 13 Dec 2023 12:32

Tgt Ion: 95 Resp: 187820
Ion Ratio Lower Upper
95 100
174 75.9 0.0 143.8
176 73.4 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN080455.D

Acq: 13 Dec 2023 12:32

Instrument :

MSVOA_N

ClientSampleId :

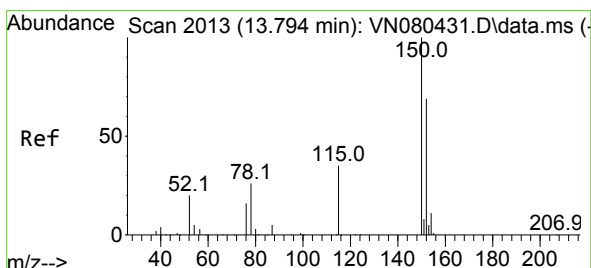
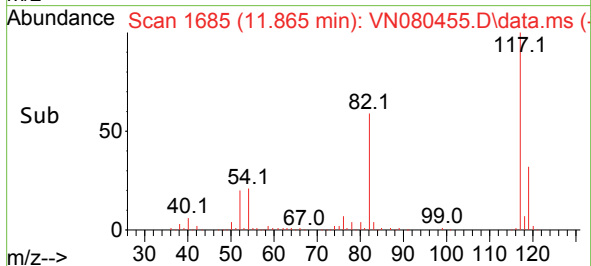
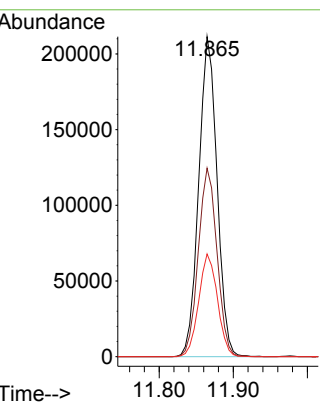
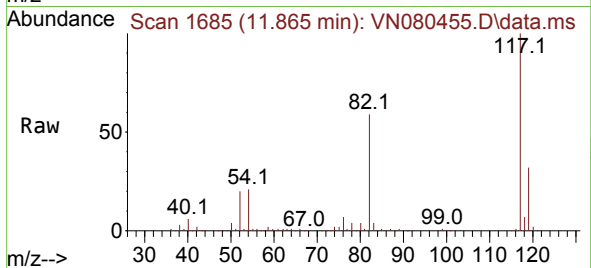
Tgt Ion:117 Resp: 362010

Ion Ratio Lower Upper

117 100

82 58.9 44.0 66.0

119 32.1 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN080455.D

Acq: 13 Dec 2023 12:32

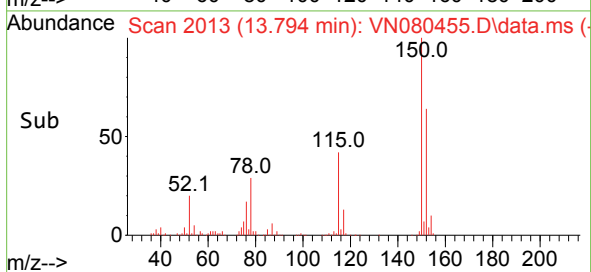
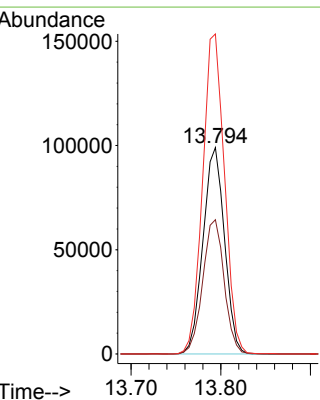
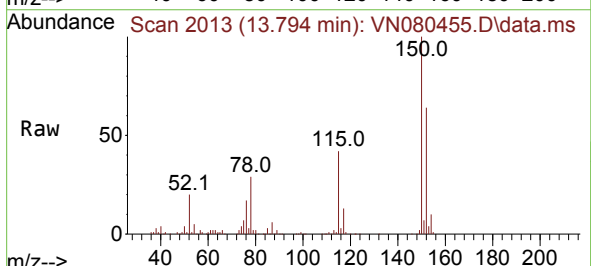
Tgt Ion:152 Resp: 164781

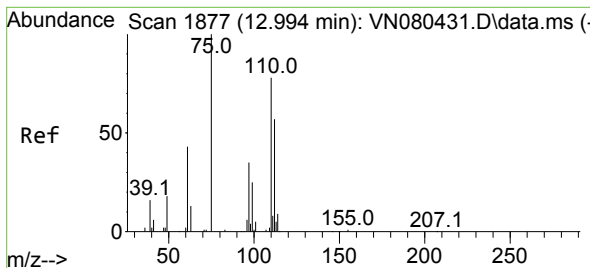
Ion Ratio Lower Upper

152 100

115 64.8 32.3 96.8

150 157.4 0.0 355.8

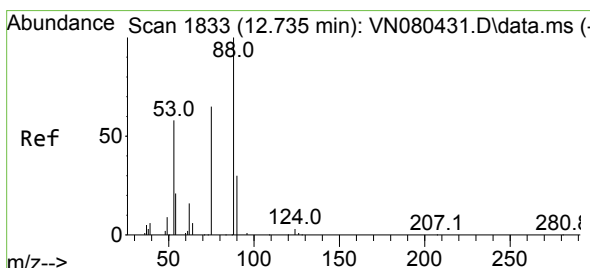
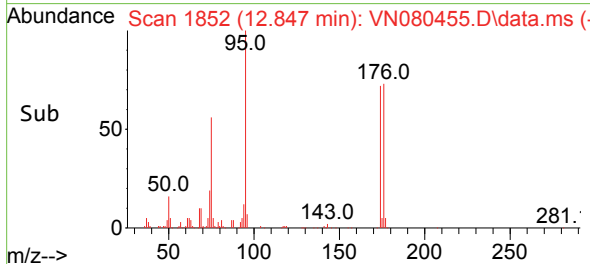
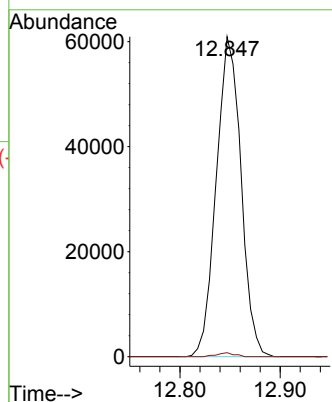
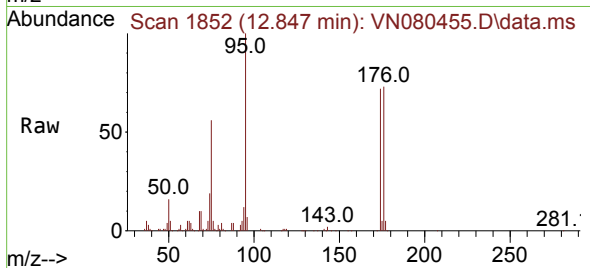




#76
 1,2,3-Trichloropropane
 Concen: 31.685 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN080455.D
 Acq: 13 Dec 2023 12:32

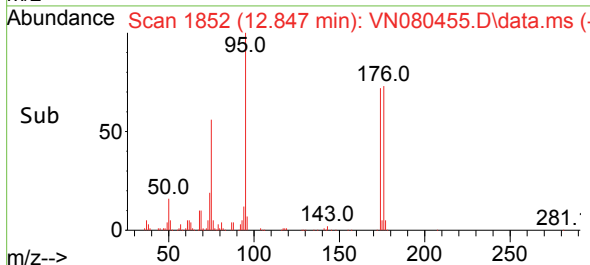
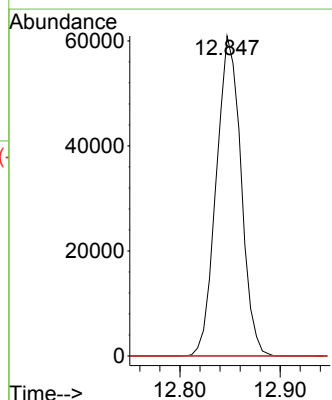
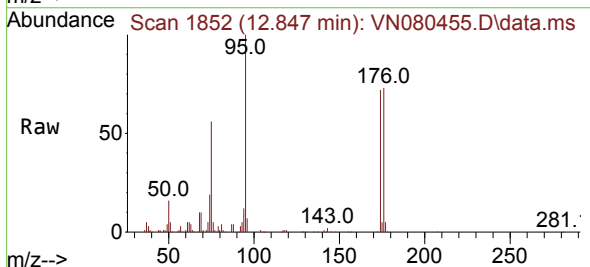
Instrument :
 MSVOA_N
 ClientSampleId :

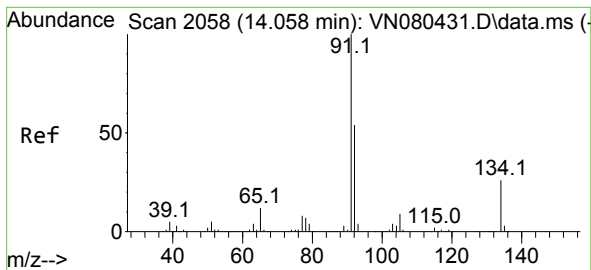
Tgt Ion: 75 Resp: 104159
 Ion Ratio Lower Upper
 75 100
 77 0.9 84.5 253.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.192 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN080455.D
 Acq: 13 Dec 2023 12:32

Tgt Ion: 75 Resp: 104159
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#





#89

n-Butylbenzene

Concen: 0.247 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. 0.000 min

Lab File: VN080455.D

Acq: 13 Dec 2023 12:32

Instrument :

MSVOA_N

ClientSampleId :

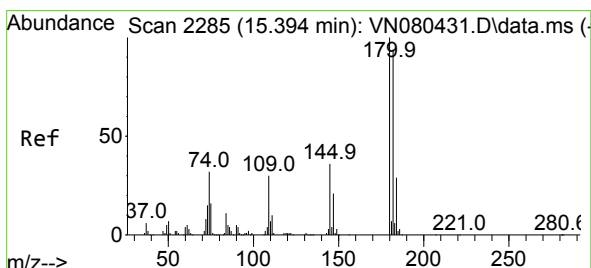
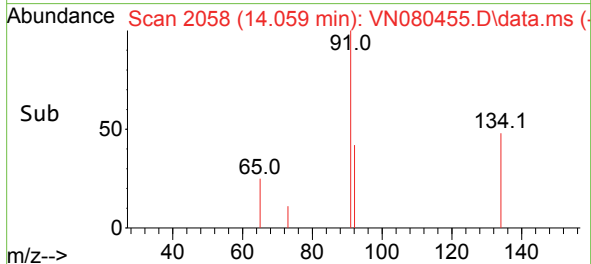
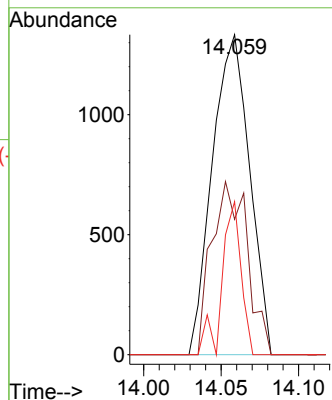
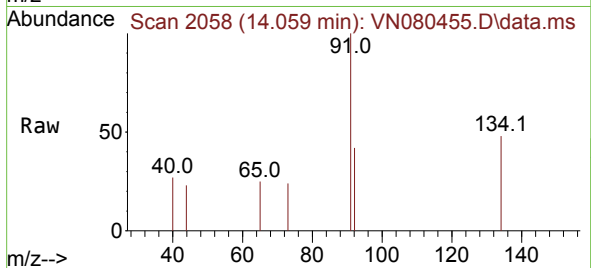
Tgt Ion: 91 Resp: 2228

Ion Ratio Lower Upper

91 100

92 51.6 26.4 79.0

134 24.4 12.6 37.6



#93

1,2,4-Trichlorobenzene

Concen: 0.484 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN080455.D

Acq: 13 Dec 2023 12:32

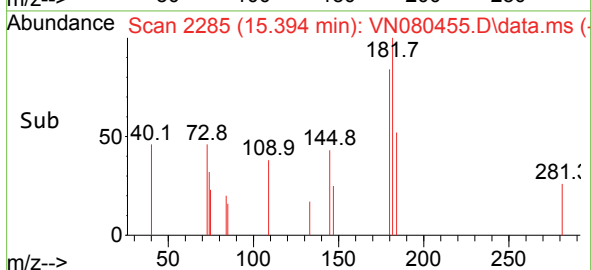
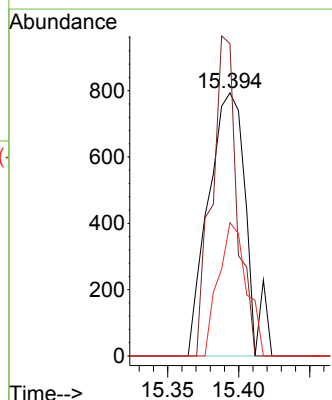
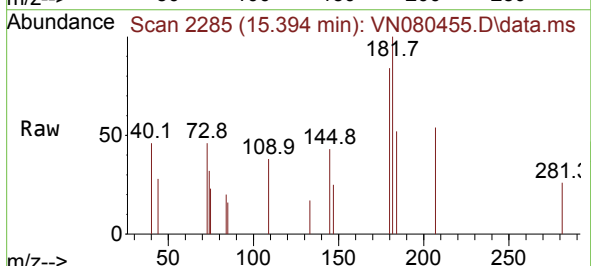
Tgt Ion: 180 Resp: 1463

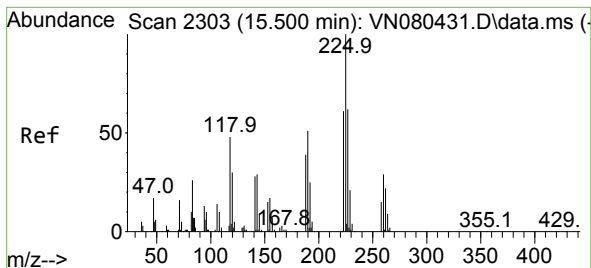
Ion Ratio Lower Upper

180 100

182 80.8 46.1 138.2

145 38.1 16.6 49.8





#94

Hexachlorobutadiene

Concen: 0.852 ug/l

RT: 15.488 min Scan# 2301

Delta R.T. -0.012 min

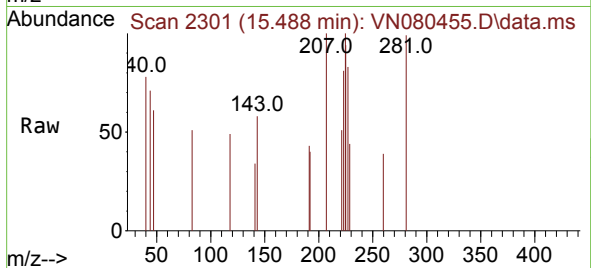
Lab File: VN080455.D

Acq: 13 Dec 2023 12:32

Instrument :

MSVOA_N

ClientSampleId :



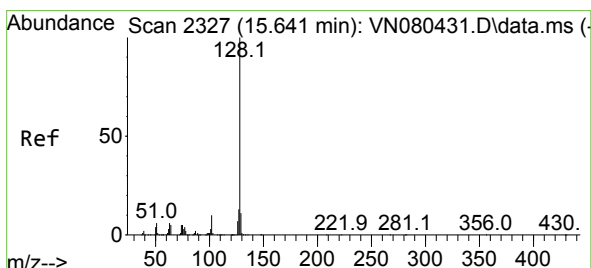
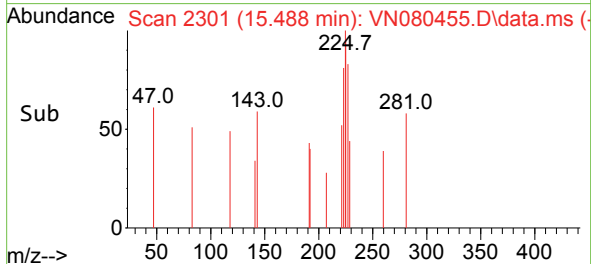
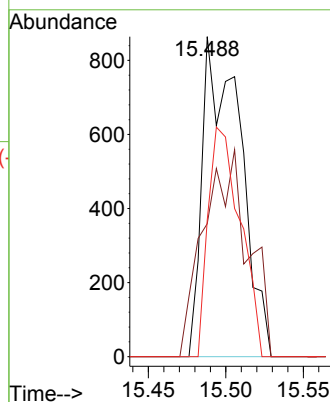
Tgt Ion:225 Resp: 1468

Ion Ratio Lower Upper

225 100

223 75.4 31.3 93.8

227 60.8 31.9 95.9



#95

Naphthalene

Concen: 0.435 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN080455.D

Acq: 13 Dec 2023 12:32

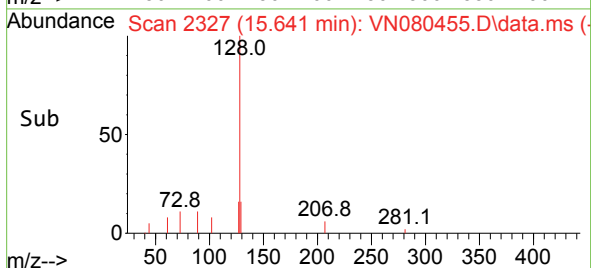
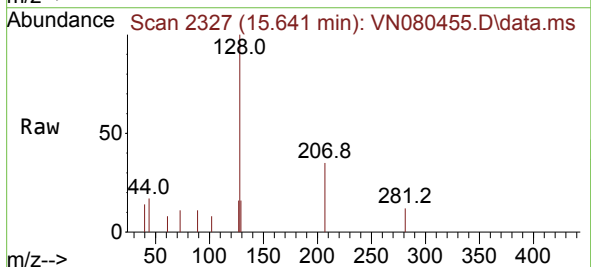
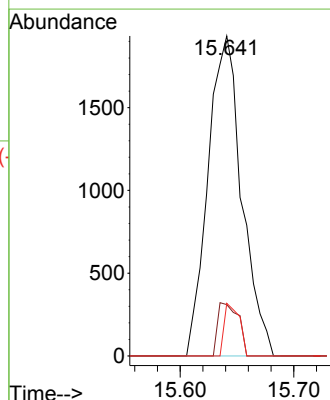
Tgt Ion:128 Resp: 3999

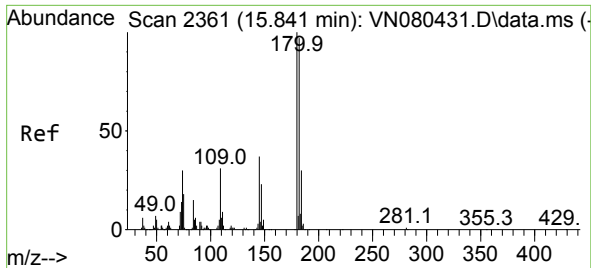
Ion Ratio Lower Upper

128 100

127 10.1 10.0 15.0

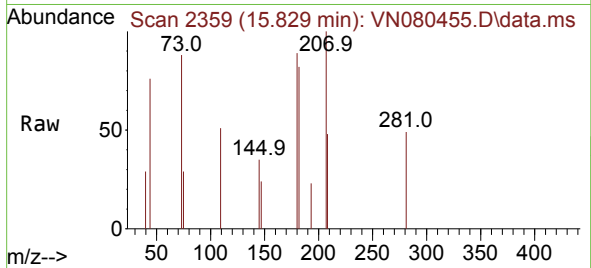
129 7.4 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.427 ug/l
 RT: 15.829 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: VN080455.D
 Acq: 13 Dec 2023 12:32

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1246
Ion Ratio	Lower	Upper	
180	100		
182	128.3	46.2	138.6
145	32.3	17.5	52.6

