

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121323\
 Data File : VN080451.D
 Acq On : 13 Dec 2023 09:58
 Operator : JC\MD
 Sample : VN1213MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 14 04:02:26 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)

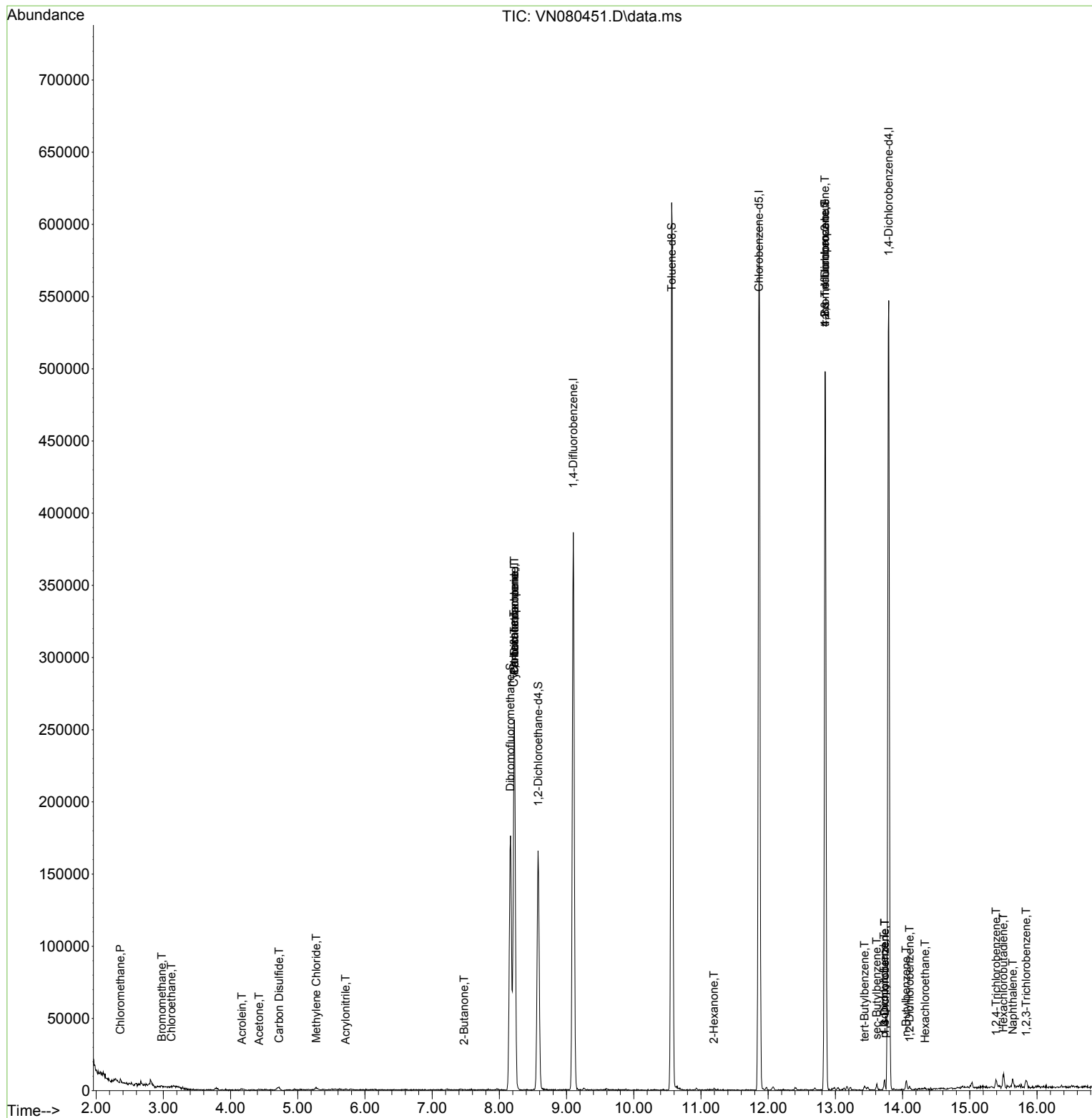
Internal Standards						
1) Pentafluorobenzene	8.224	168	184206	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	329834	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	348162	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	149411	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	146057	62.080	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 124.160%			
35) Dibromofluoromethane	8.165	113	123217	58.920	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 117.840%			
50) Toluene-d8	10.565	98	434395	55.696	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 111.400%			
62) 4-Bromofluorobenzene	12.847	95	173966	58.740	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 117.480%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	3802	1.152	ug/l	100
5) Bromomethane	2.977	94	414	0.457	ug/l #	51
6) Chloroethane	3.118	64	314	0.243	ug/l #	43
13) Acrolein	4.171	56	519	1.710	ug/l	98
15) Acrylonitrile	5.712	53	348	0.444	ug/l #	18
16) Acetone	4.424	43	636	1.525	ug/l #	40
17) Carbon Disulfide	4.724	76	3008	0.536	ug/l #	75
20) Methylene Chloride	5.277	84	1020	0.457	ug/l #	72
25) 2-Butanone	7.477	43	172	0.214	ug/l #	37
31) Cyclohexane	8.218	56	3822	1.195	ug/l #	43
36) 1,1-Dichloropropene	8.224	75	13812	4.039	ug/l #	50
38) Carbon Tetrachloride	8.224	117	19826	4.852	ug/l #	15
59) 2-Hexanone	11.194	43	500	0.319	ug/l	71
76) 1,2,3-Trichloropropane	12.847	75	93375	31.327	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	93375	82.251	ug/l #	15
83) tert-Butylbenzene	13.435	119	1716	0.203	ug/l	67
85) sec-Butylbenzene	13.617	105	3257	0.301	ug/l	99
86) p-Isopropyltoluene	13.723	119	2007	0.205	ug/l	89
87) 1,3-Dichlorobenzene	13.735	146	1556	0.299	ug/l	91
88) 1,4-Dichlorobenzene	13.735	146	1556	0.296	ug/l	92
89) n-Butylbenzene	14.053	91	4300	0.527	ug/l	98
90) Hexachloroethane	14.335	117	446	0.287	ug/l #	21
91) 1,2-Dichlorobenzene	14.106	146	1193	0.242	ug/l	85
93) 1,2,4-Trichlorobenzene	15.394	180	2067	0.754	ug/l	81
94) Hexachlorobutadiene	15.500	225	2382	1.526	ug/l	87
95) Naphthalene	15.641	128	5714	0.686	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.841	180	1985	0.750	ug/l	80

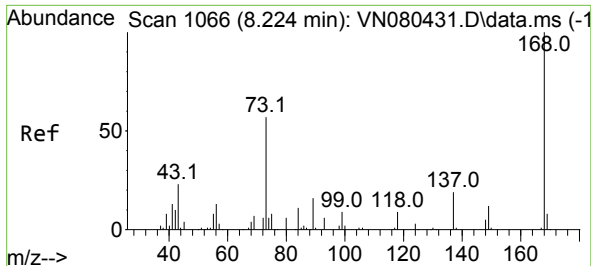
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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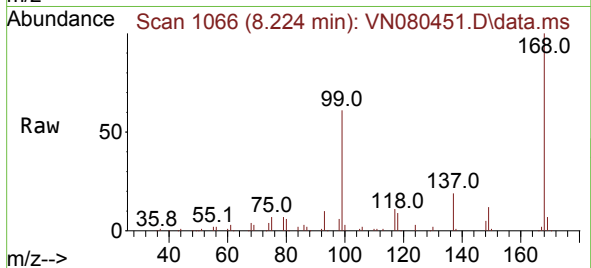
Quant Time: Dec 14 04:02:26 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
Quant Title : SW846 8260
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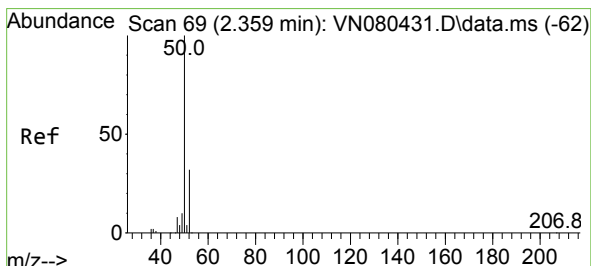
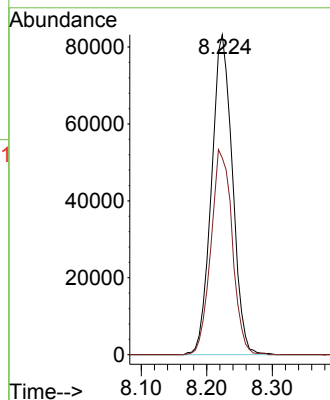
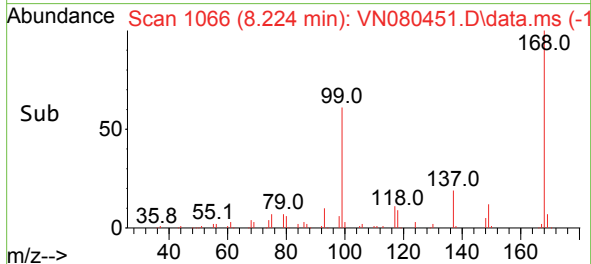


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

Instrument :
MSVOA_N
ClientSampleId :

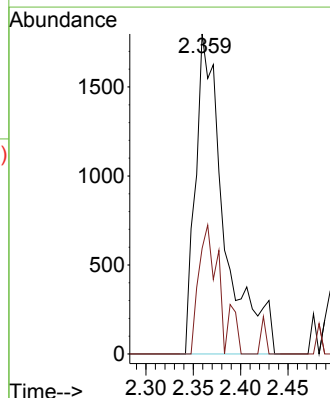
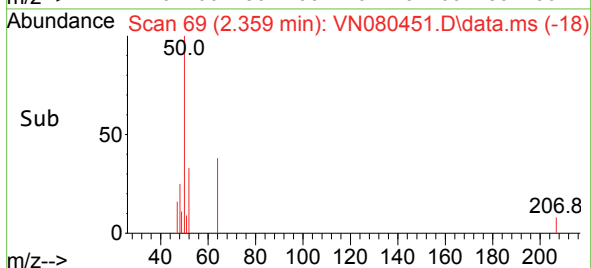
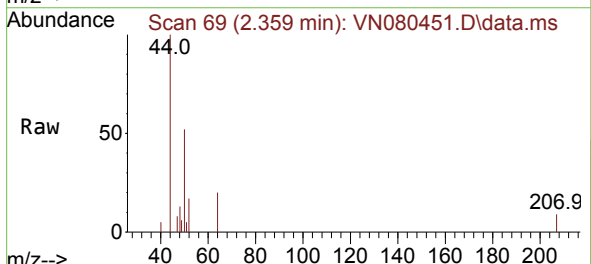


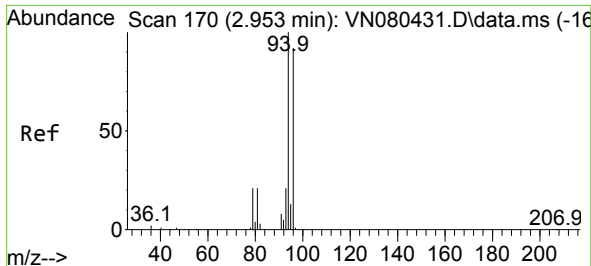
Tgt Ion:168 Resp: 184206
Ion Ratio Lower Upper
168 100
99 61.4 53.0 79.6



#3
Chloromethane
Concen: 1.152 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

Tgt Ion: 50 Resp: 3802
Ion Ratio Lower Upper
50 100
52 33.0 26.5 39.7

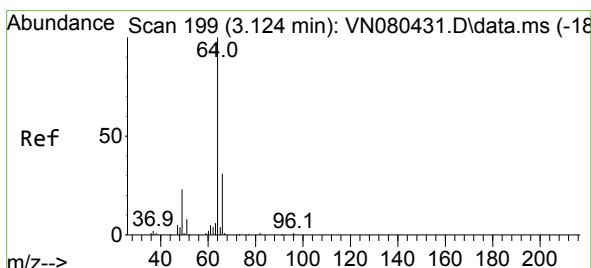
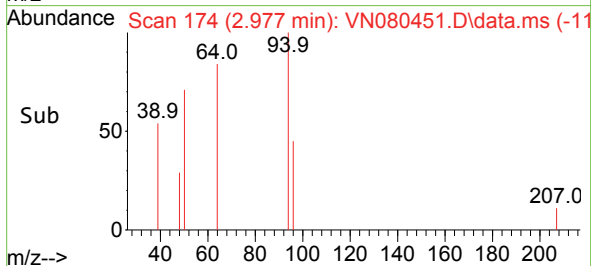
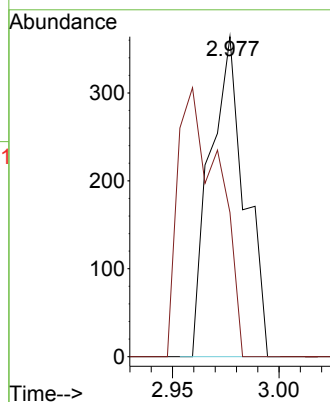
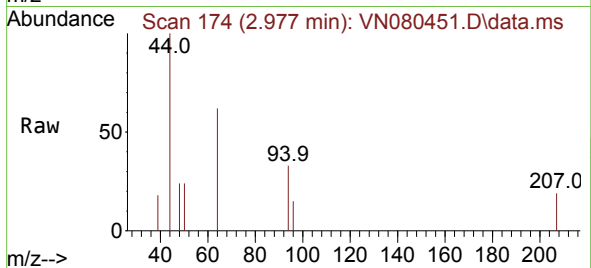




#5
Bromomethane
Concen: 0.457 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

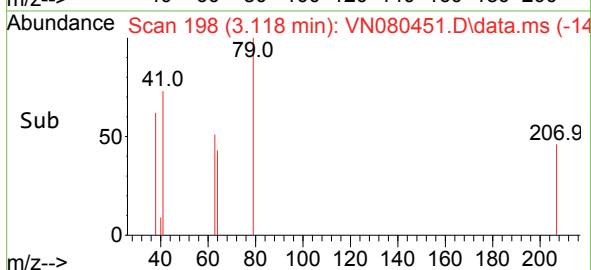
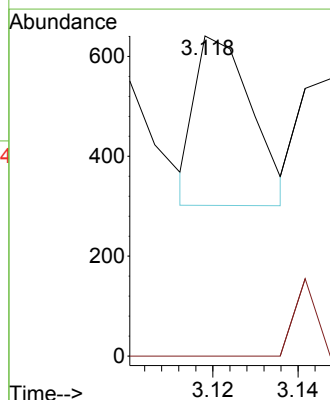
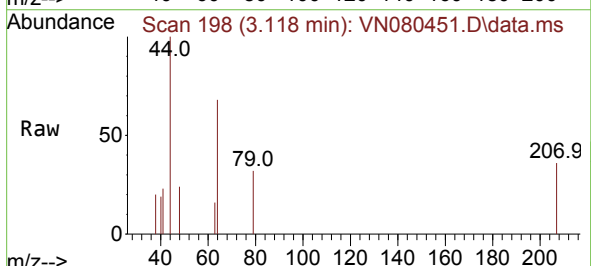
Instrument :
MSVOA_N
ClientSampleId :

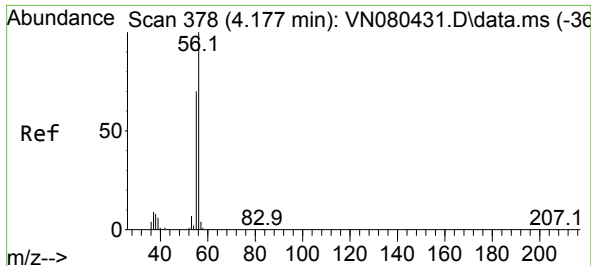
Tgt Ion: 94 Resp: 414
Ion Ratio Lower Upper
94 100
96 45.1 73.1 109.7#



#6
Chloroethane
Concen: 0.243 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

Tgt Ion: 64 Resp: 314
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#





#13

Acrolein

Concen: 1.710 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.006 min

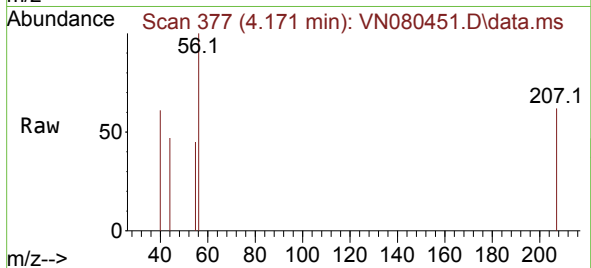
Lab File: VN080451.D

Acq: 13 Dec 2023 09:58

Instrument :

MSVOA_N

ClientSampleId :

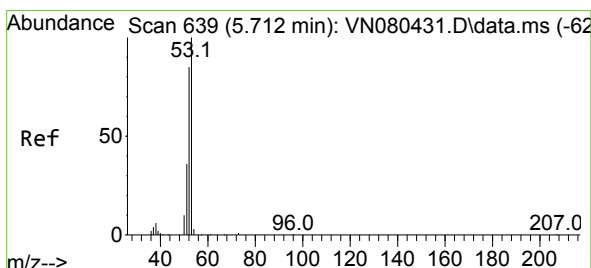
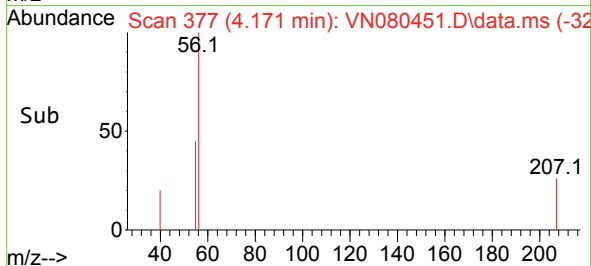
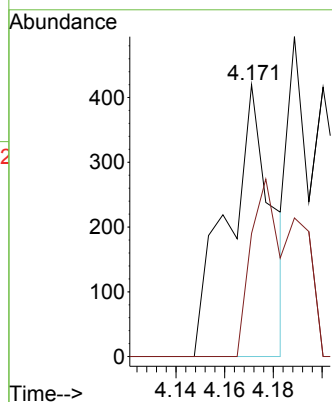


Tgt Ion: 56 Resp: 519

Ion Ratio Lower Upper

56 100

55 69.6 54.5 81.7



#15

Acrylonitrile

Concen: 0.444 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN080451.D

Acq: 13 Dec 2023 09:58

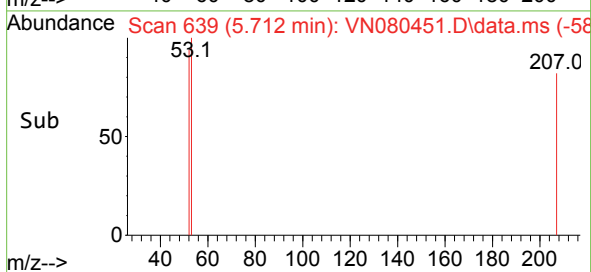
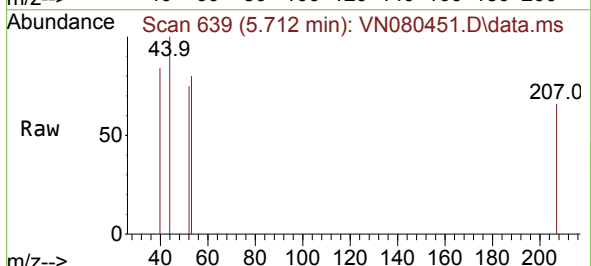
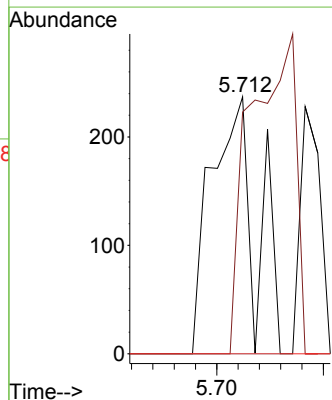
Tgt Ion: 53 Resp: 348

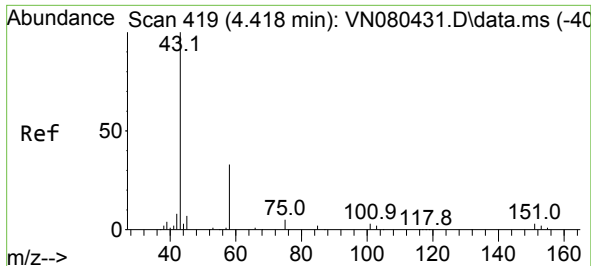
Ion Ratio Lower Upper

53 100

52 0.0 65.3 97.9#

51 0.0 28.9 43.3#

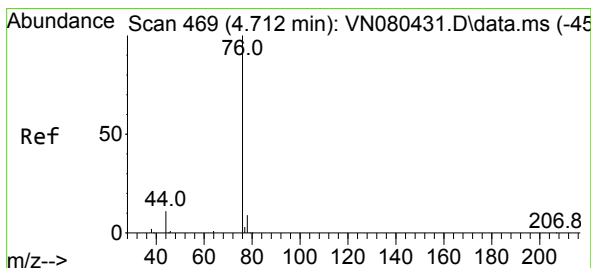
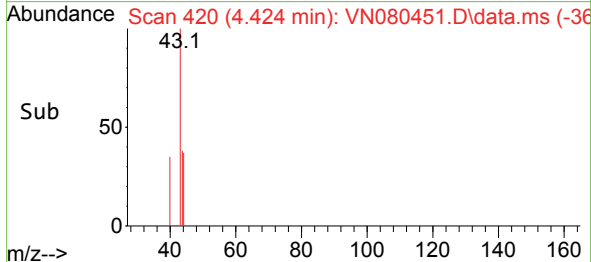
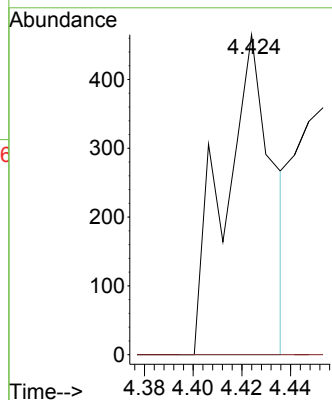
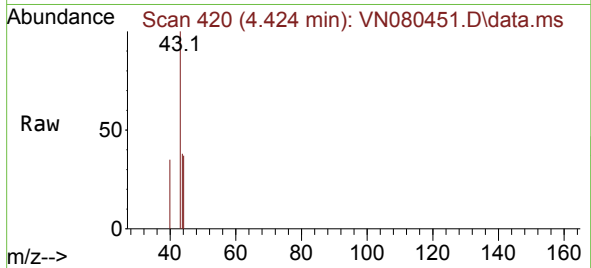




#16
Acetone
Concen: 1.525 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

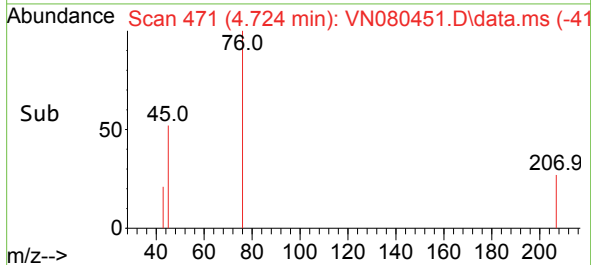
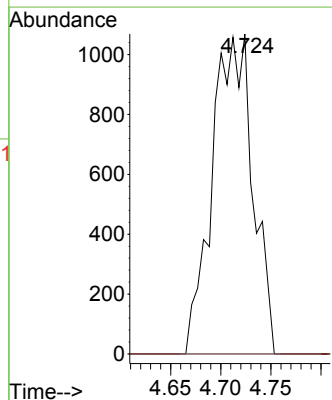
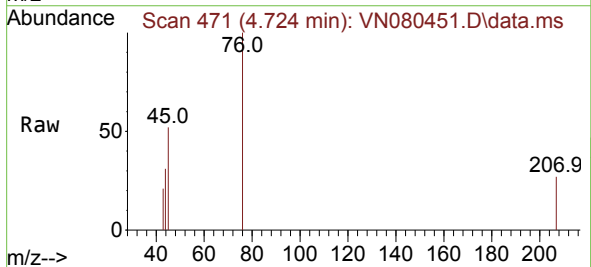
Instrument :
MSVOA_N
ClientSampleId :

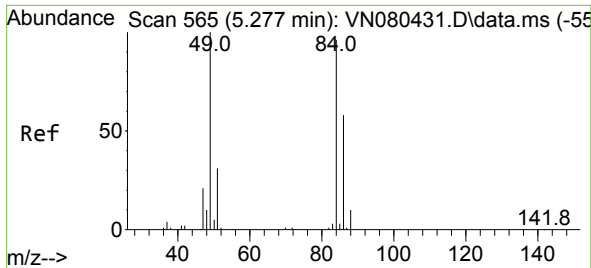
Tgt Ion: 43 Resp: 636
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.536 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.012 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

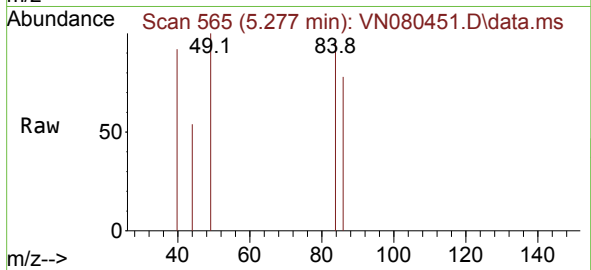
Tgt Ion: 76 Resp: 3008
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



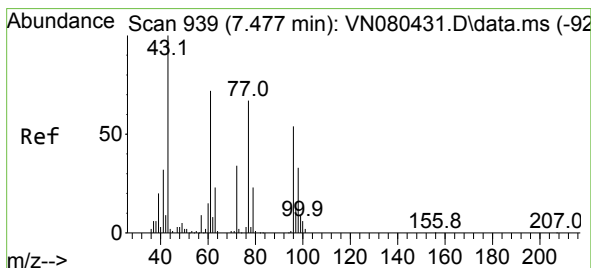
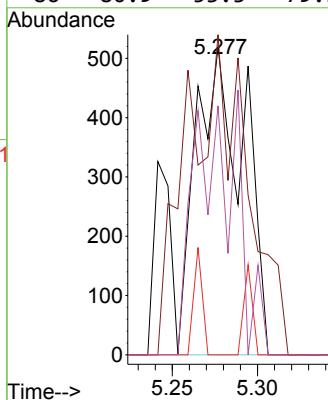
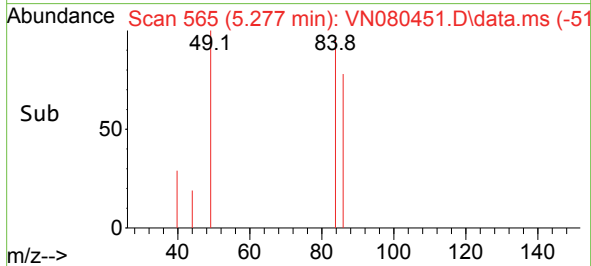


#20
Methylene Chloride
Concen: 0.457 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

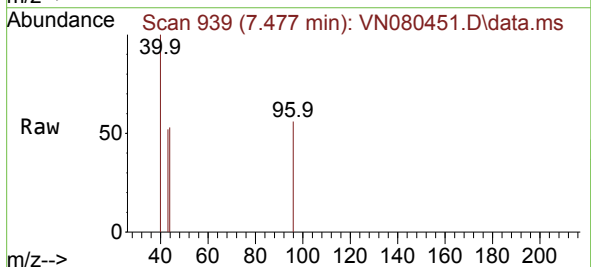
Instrument :
MSVOA_N
ClientSampleId :



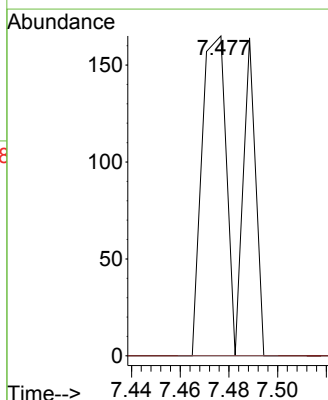
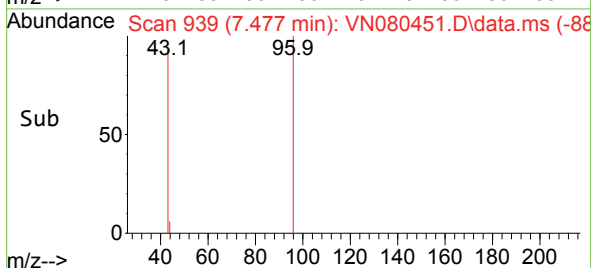
Tgt Ion: 84 Resp: 1020
Ion Ratio Lower Upper
84 100
49 75.0 79.7 119.5#
51 0.0 25.2 37.8#
86 80.9 53.3 79.9#

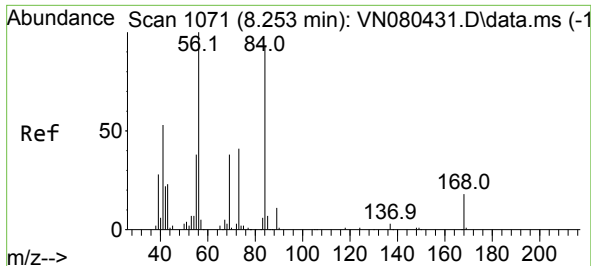


#25
2-Butanone
Concen: 0.214 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58



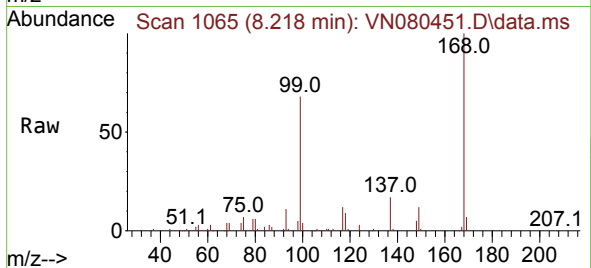
Tgt Ion: 43 Resp: 172
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



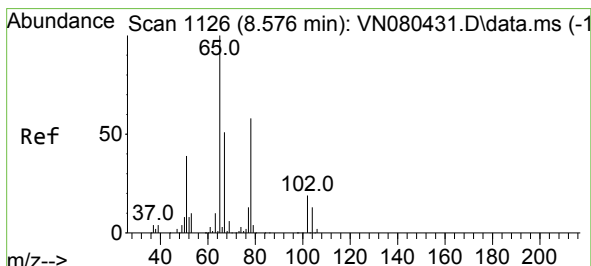
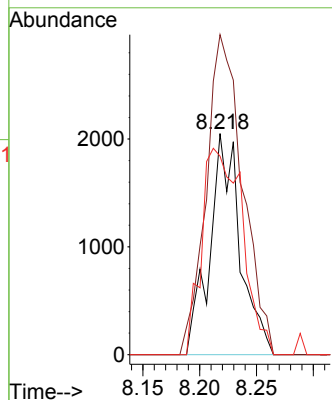
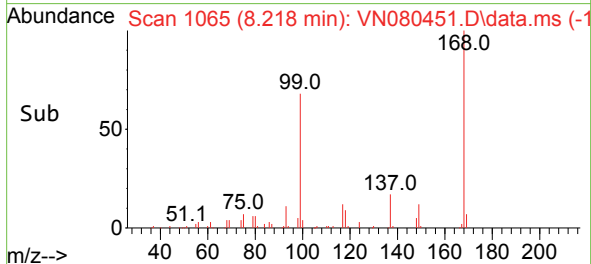


#31
Cyclohexane
Concen: 1.195 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

Instrument :
MSVOA_N
ClientSampleId :

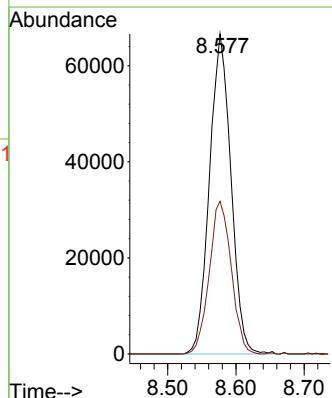
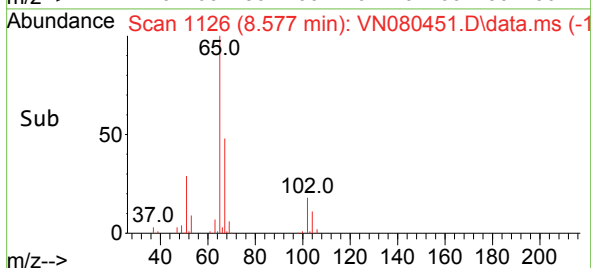
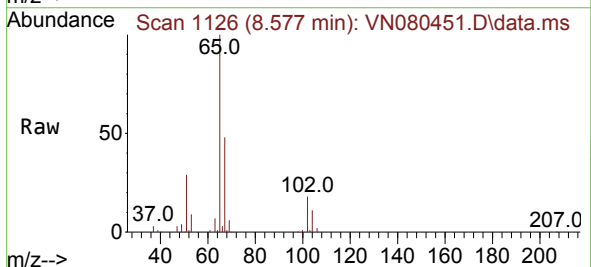


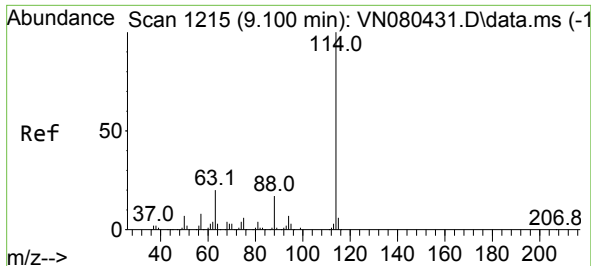
Tgt Ion: 56 Resp: 3822
Ion Ratio Lower Upper
56 100
69 144.7 26.8 40.2#
84 89.8 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 62.080 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

Tgt Ion: 65 Resp: 146057
Ion Ratio Lower Upper
65 100
67 48.9 0.0 106.6

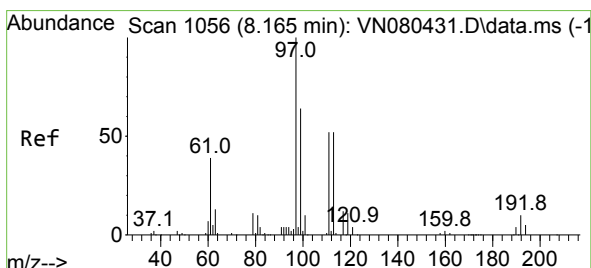
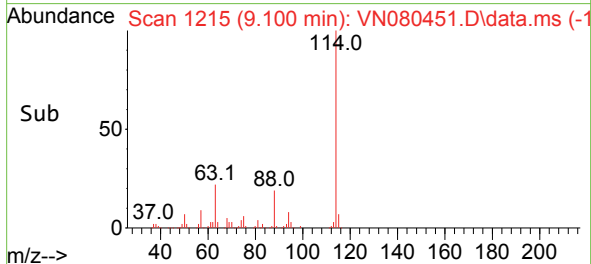
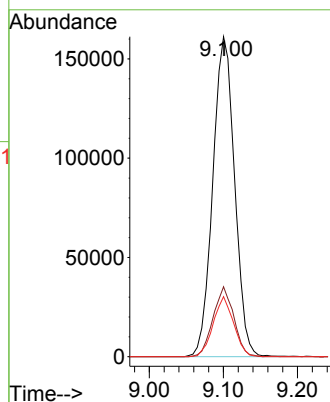
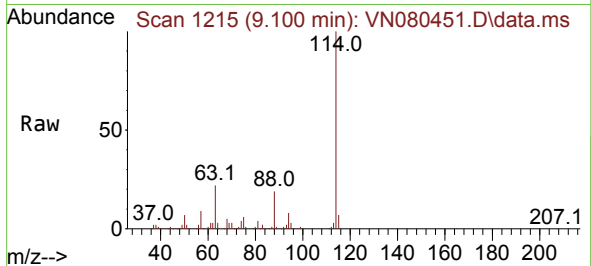




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

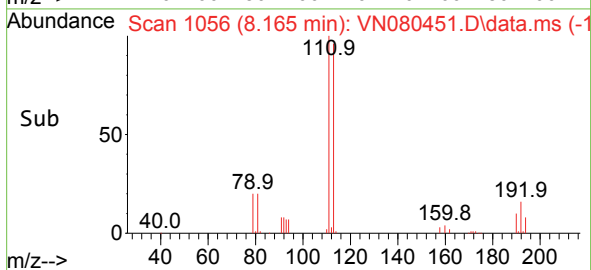
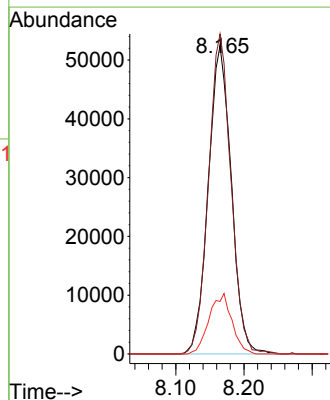
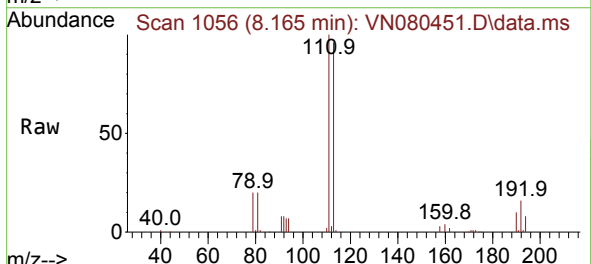
Instrument :
MSVOA_N
ClientSampleId :

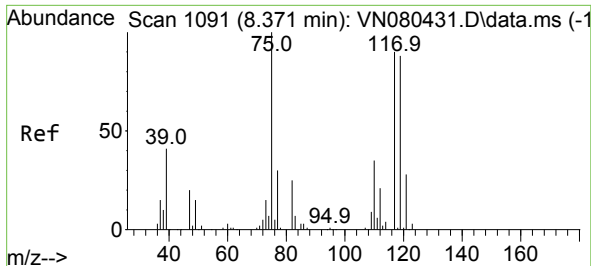
Tgt Ion:114 Resp: 329834
Ion Ratio Lower Upper
114 100
63 21.8 0.0 36.4
88 18.7 0.0 30.6



#35
Dibromofluoromethane
Concen: 58.920 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

Tgt Ion:113 Resp: 123217
Ion Ratio Lower Upper
113 100
111 101.2 82.6 123.8
192 19.4 12.7 19.1#





#36

1,1-Dichloropropene

Concen: 4.039 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN080451.D

Acq: 13 Dec 2023 09:58

Instrument :

MSVOA_N

ClientSampleId :

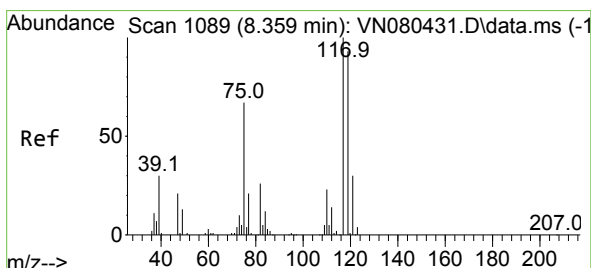
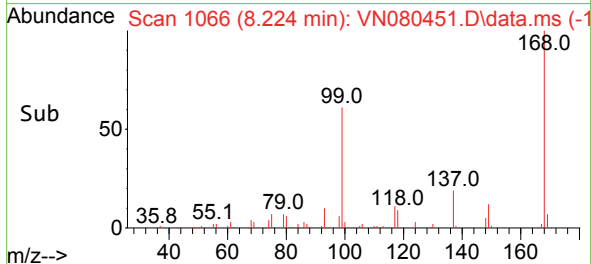
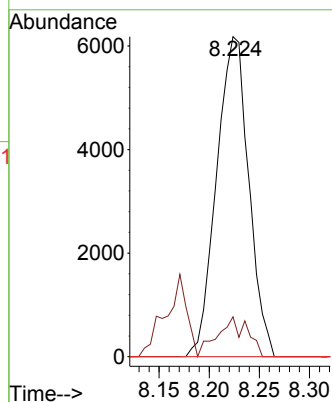
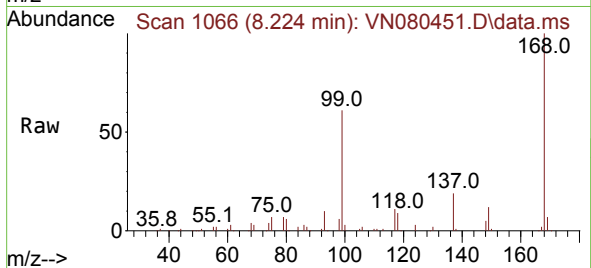
Tgt Ion: 75 Resp: 13812

Ion Ratio Lower Upper

75 100

110 11.5 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 4.852 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN080451.D

Acq: 13 Dec 2023 09:58

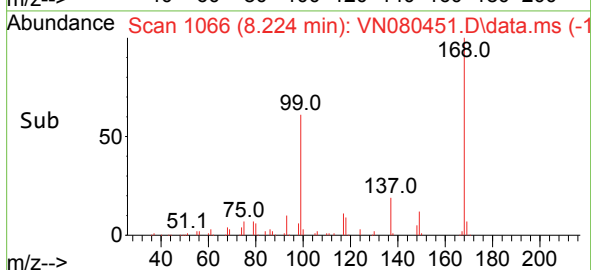
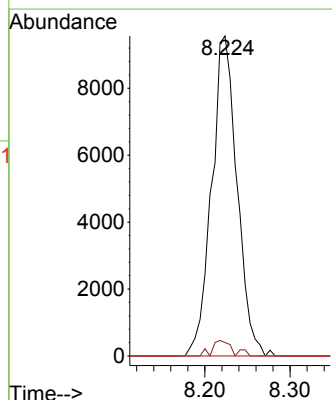
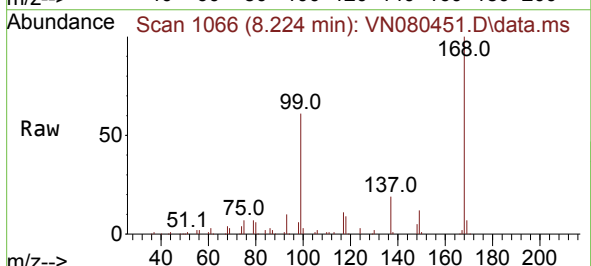
Tgt Ion: 117 Resp: 19826

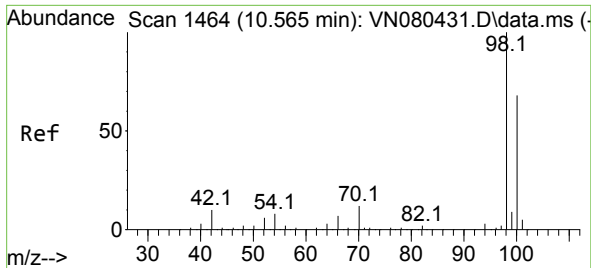
Ion Ratio Lower Upper

117 100

119 4.2 77.3 115.9#

121 0.0 23.3 34.9#

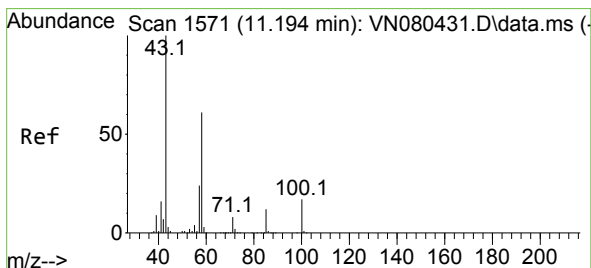
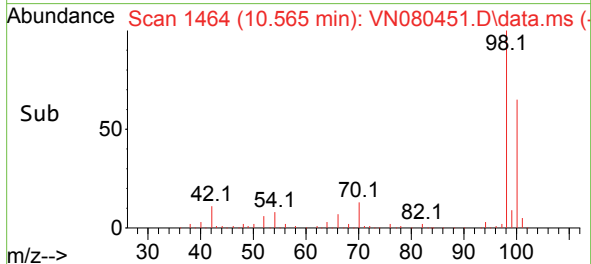
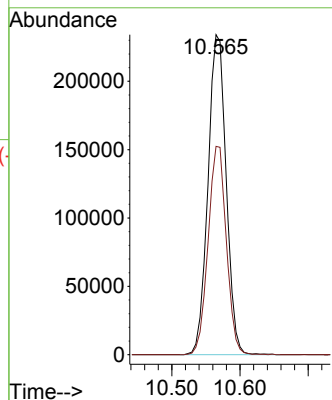
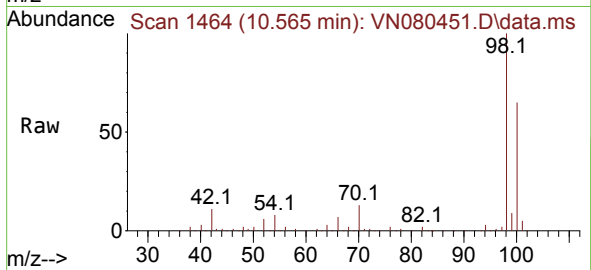




#50
Toluene-d8
Concen: 55.696 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

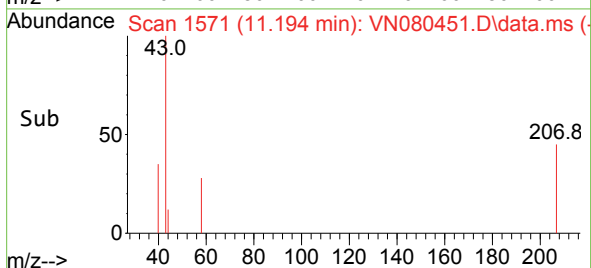
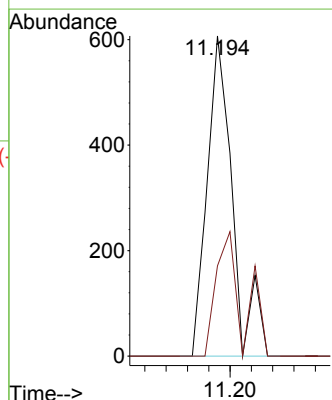
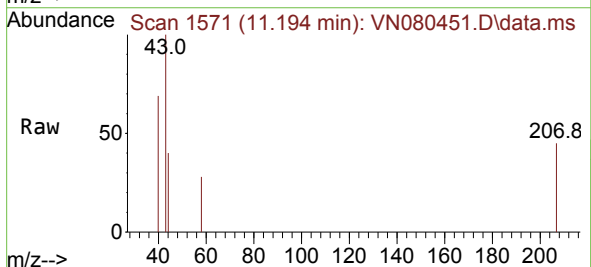
Instrument :
MSVOA_N
ClientSampleId :

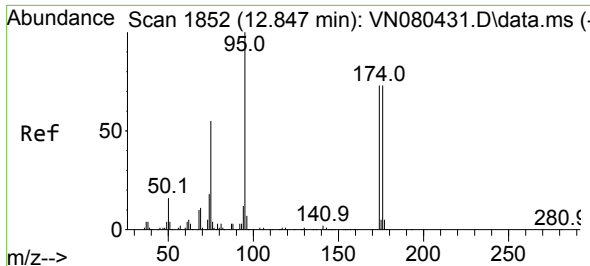
Tgt Ion: 98 Resp: 434395
Ion Ratio Lower Upper
98 100
100 65.3 52.0 78.0



#59
2-Hexanone
Concen: 0.319 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

Tgt Ion: 43 Resp: 500
Ion Ratio Lower Upper
43 100
58 40.8 31.7 95.1

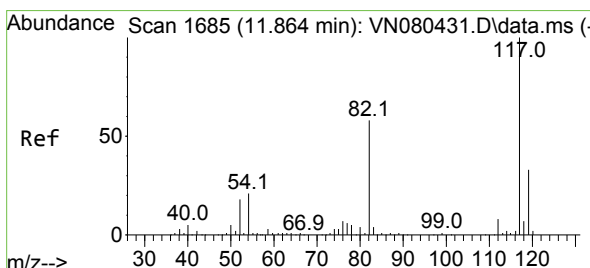
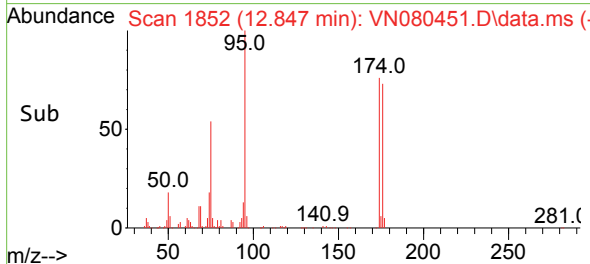
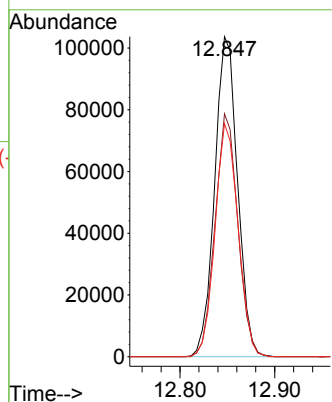
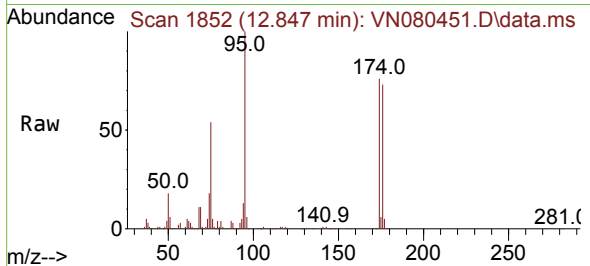




#62
4-Bromofluorobenzene
Concen: 58.740 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

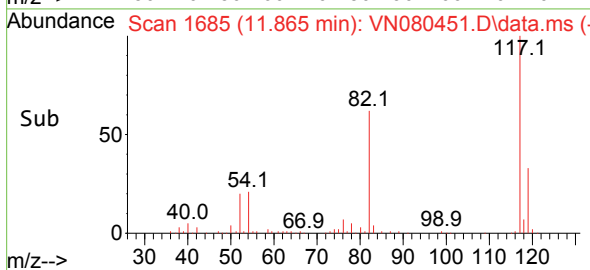
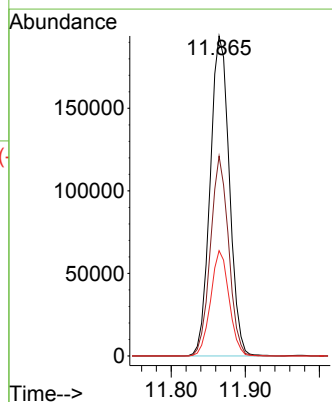
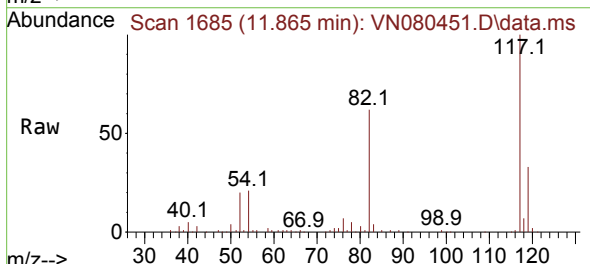
Instrument :
MSVOA_N
ClientSampleId :

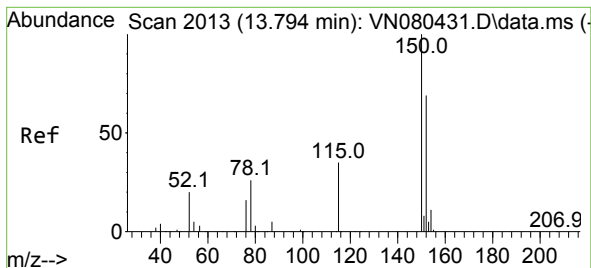
Tgt Ion: 95 Resp: 173966
Ion Ratio Lower Upper
95 100
174 75.5 0.0 143.8
176 73.4 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

Tgt Ion: 117 Resp: 348162
Ion Ratio Lower Upper
117 100
82 62.4 44.0 66.0
119 32.9 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

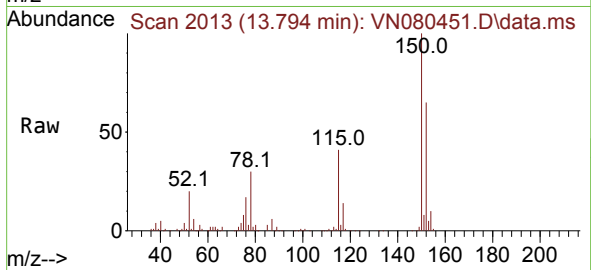
Lab File: VN080451.D

Acq: 13 Dec 2023 09:58

Instrument :

MSVOA_N

ClientSampleId :



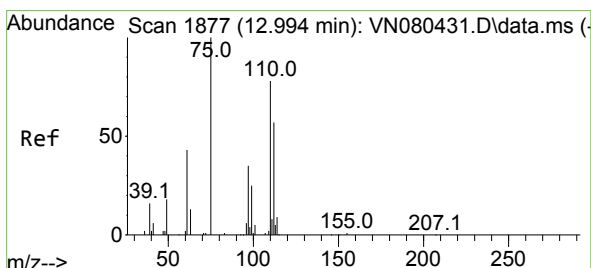
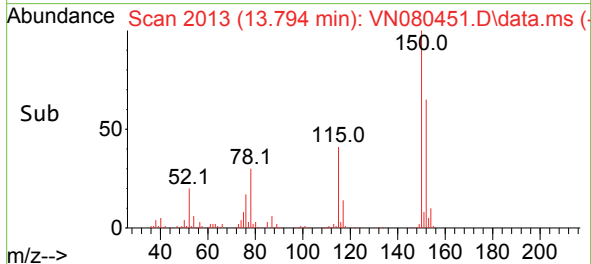
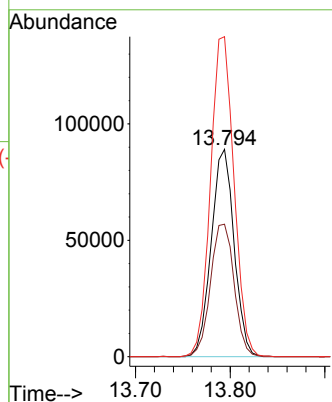
Tgt Ion:152 Resp: 149411

Ion Ratio Lower Upper

152 100

115 66.0 32.3 96.8

150 158.3 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 31.327 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN080451.D

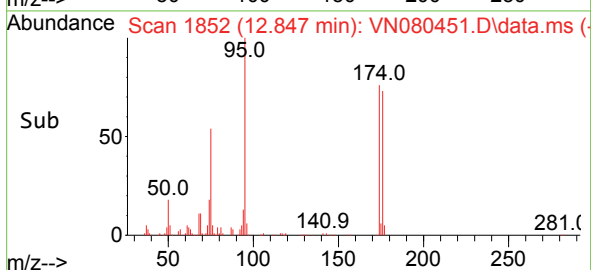
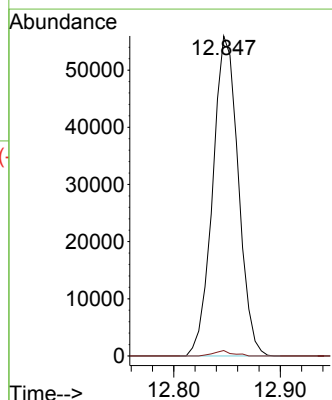
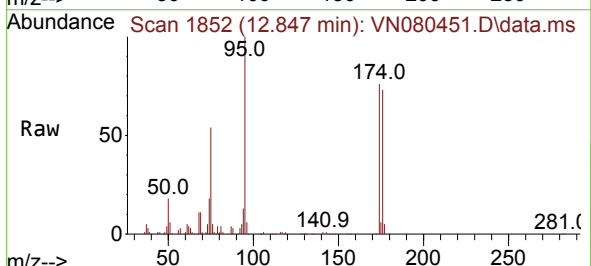
Acq: 13 Dec 2023 09:58

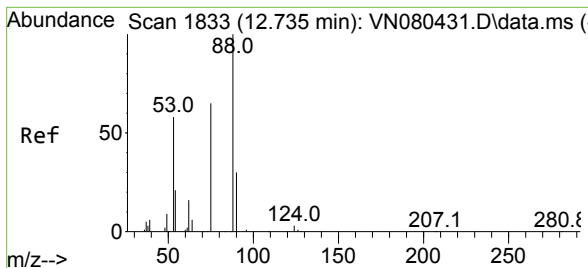
Tgt Ion: 75 Resp: 93375

Ion Ratio Lower Upper

75 100

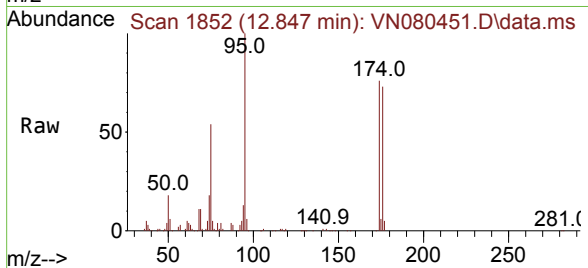
77 1.2 84.5 253.5#



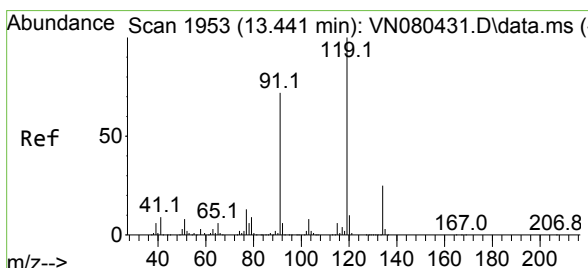
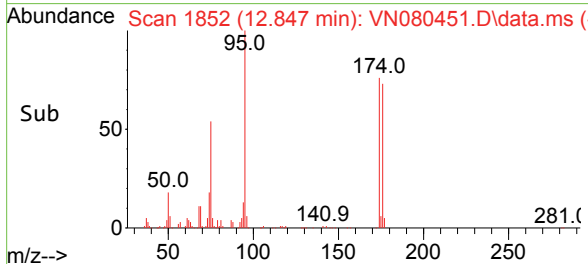
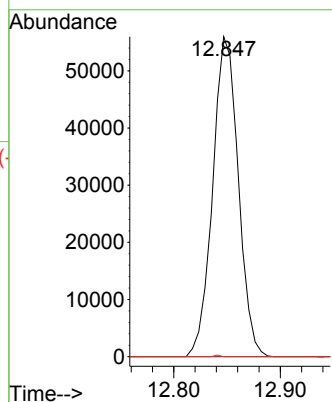


#81
 trans-1,4-Dichloro-2-butene
 Concen: 82.251 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN080451.D
 Acq: 13 Dec 2023 09:58

Instrument :
 MSVOA_N
 ClientSampleId :

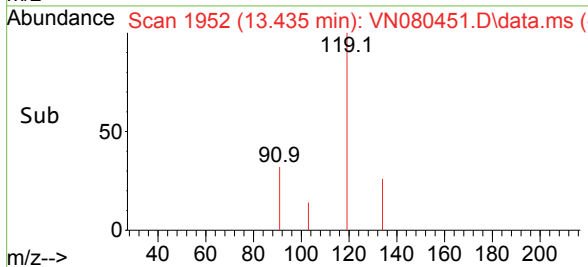
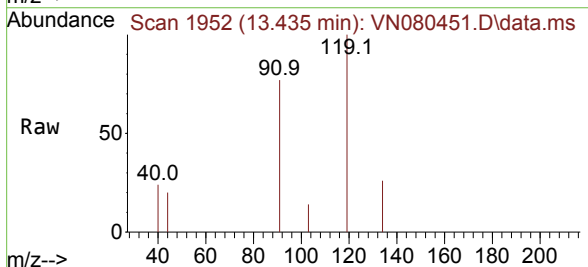
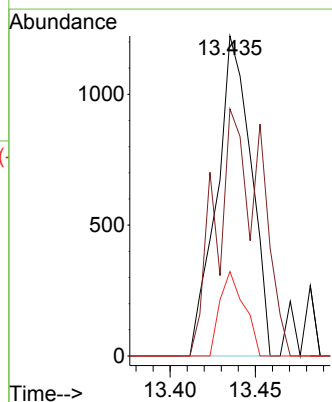


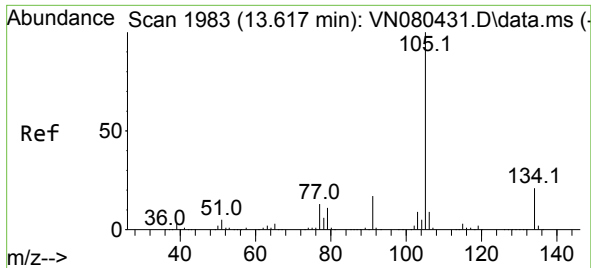
Tgt Ion: 75 Resp: 93375
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.1 38.8 58.2#



#83
 tert-Butylbenzene
 Concen: 0.203 ug/l
 RT: 13.435 min Scan# 1952
 Delta R.T. -0.006 min
 Lab File: VN080451.D
 Acq: 13 Dec 2023 09:58

Tgt Ion: 119 Resp: 1716
 Ion Ratio Lower Upper
 119 100
 91 99.7 33.9 101.7
 134 18.7 13.2 39.6

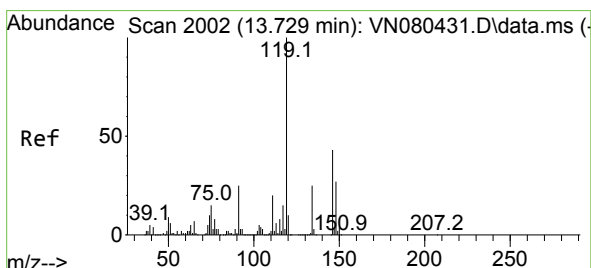
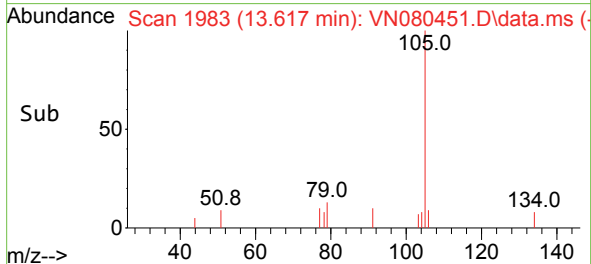
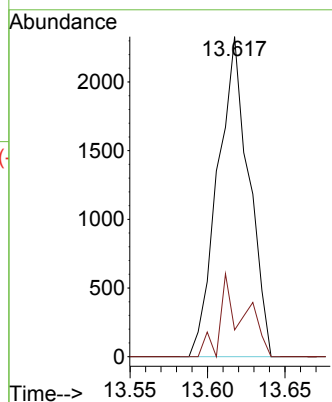
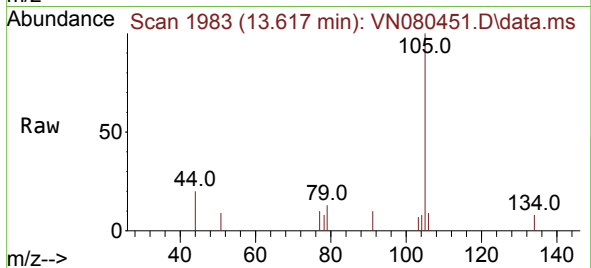




#85
 sec-Butylbenzene
 Concen: 0.301 ug/l
 RT: 13.617 min Scan# 1983
 Delta R.T. 0.000 min
 Lab File: VN080451.D
 Acq: 13 Dec 2023 09:58

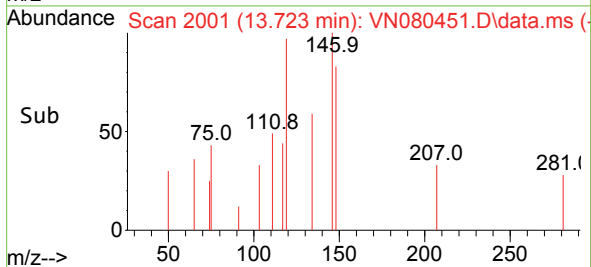
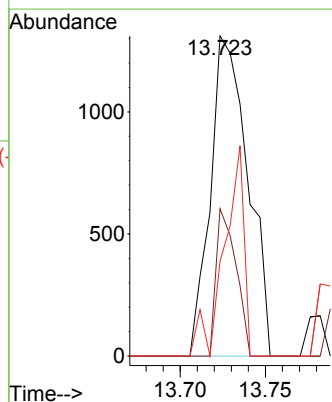
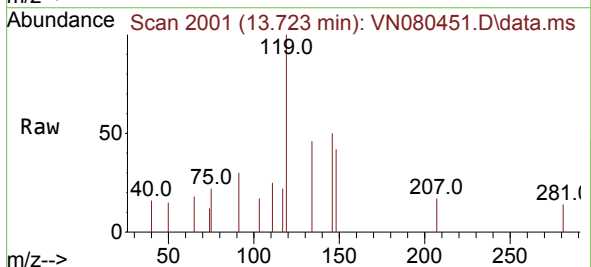
Instrument :
 MSVOA_N
 ClientSampleId :

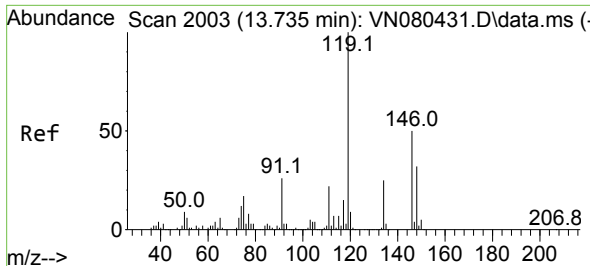
Tgt Ion:105 Resp: 3257
 Ion Ratio Lower Upper
 105 100
 134 19.7 9.8 29.3



#86
 p-Isopropyltoluene
 Concen: 0.205 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. -0.006 min
 Lab File: VN080451.D
 Acq: 13 Dec 2023 09:58

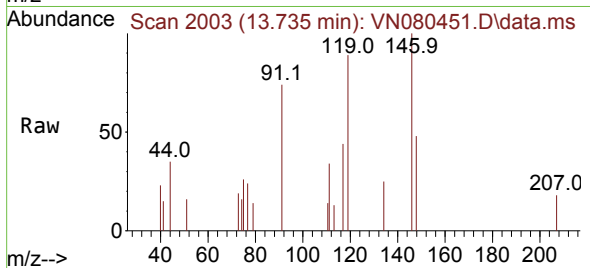
Tgt Ion:119 Resp: 2007
 Ion Ratio Lower Upper
 119 100
 134 24.4 12.6 37.8
 91 34.7 12.4 37.2



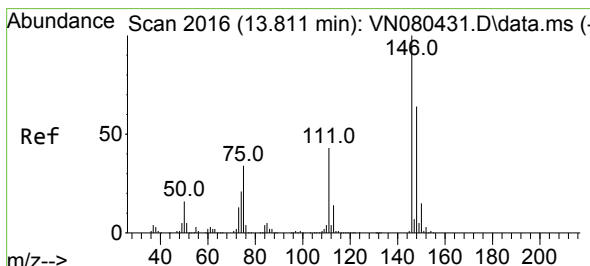
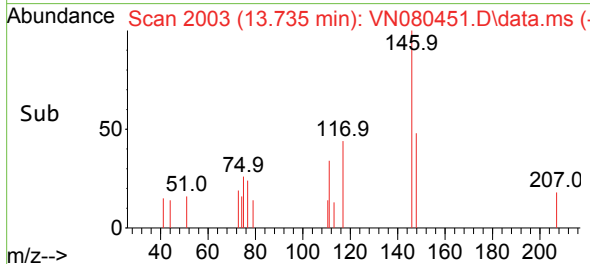
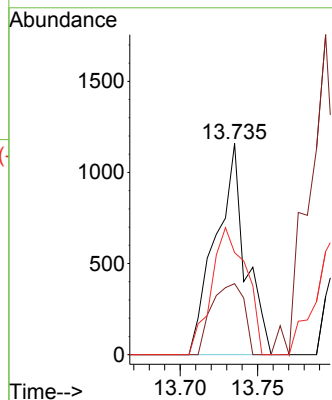


#87
1,3-Dichlorobenzene
Concen: 0.299 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

Instrument :
MSVOA_N
ClientSampleId :

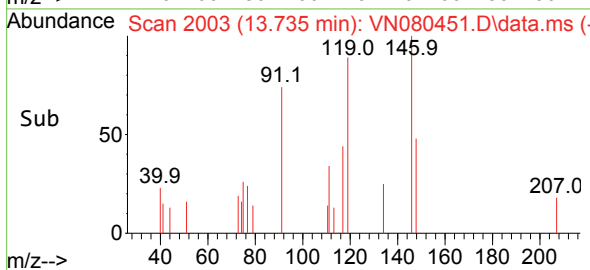
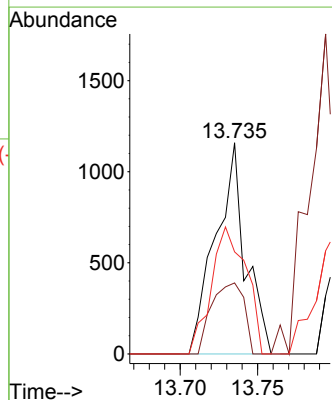
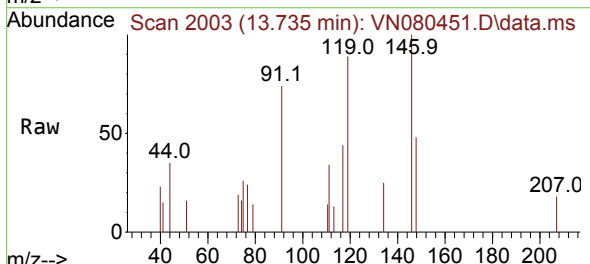


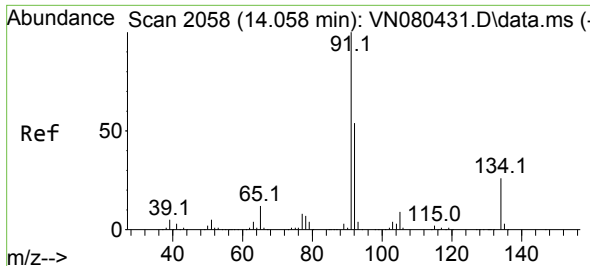
Tgt Ion:146 Resp: 1556
Ion Ratio Lower Upper
146 100
111 36.6 22.1 66.3
148 69.9 32.0 96.0



#88
1,4-Dichlorobenzene
Concen: 0.296 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.076 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

Tgt Ion:146 Resp: 1556
Ion Ratio Lower Upper
146 100
111 36.6 20.6 61.8
148 69.9 31.6 94.8





#89

n-Butylbenzene

Concen: 0.527 ug/l

RT: 14.053 min Scan# 2058

Delta R.T. -0.006 min

Lab File: VN080451.D

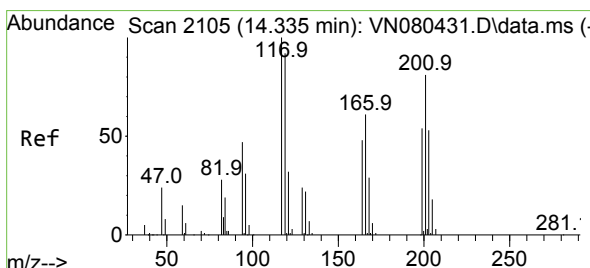
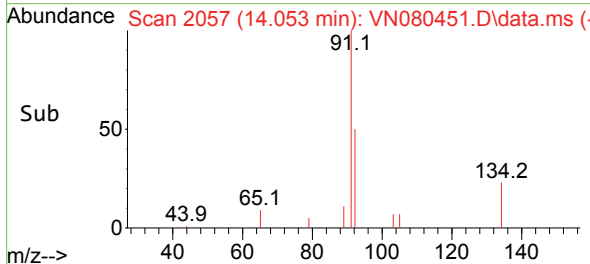
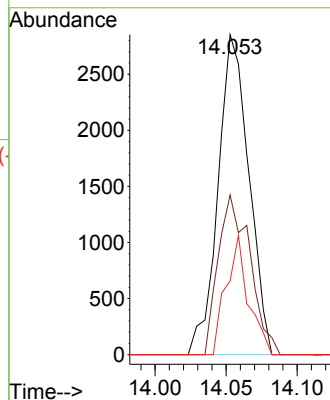
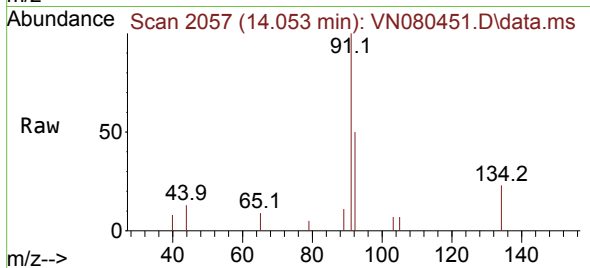
Acq: 13 Dec 2023 09:58

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 91	Resp: 4300
Ion Ratio	Lower Upper
91	100
92	51.6 26.4 79.0
134	26.9 12.6 37.6



#90

Hexachloroethane

Concen: 0.287 ug/l

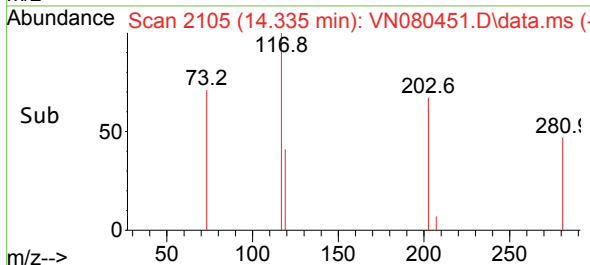
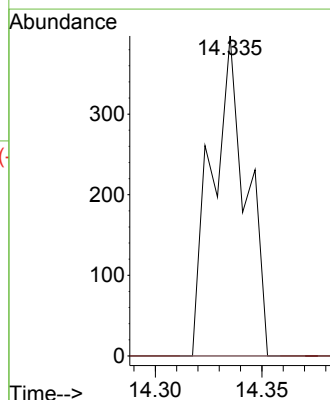
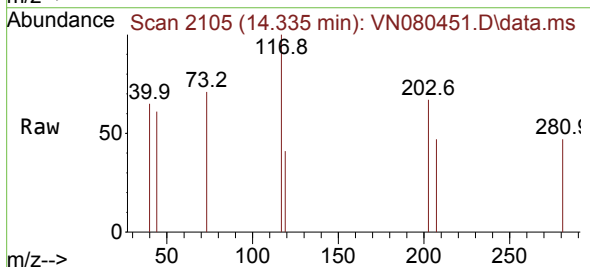
RT: 14.335 min Scan# 2105

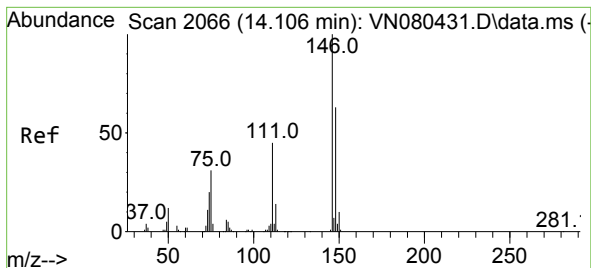
Delta R.T. 0.000 min

Lab File: VN080451.D

Acq: 13 Dec 2023 09:58

Tgt Ion: 117	Resp: 446
Ion Ratio	Lower Upper
117	100
201	0.0 29.3 88.0#





#91

1,2-Dichlorobenzene

Concen: 0.242 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN080451.D

Acq: 13 Dec 2023 09:58

Instrument :

MSVOA_N

ClientSampleId :

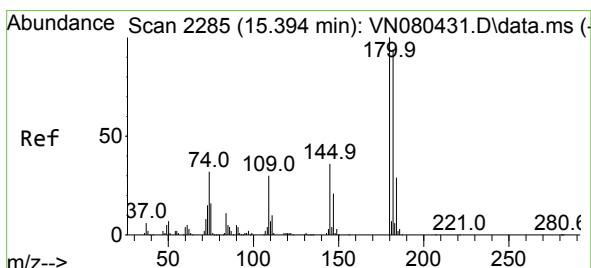
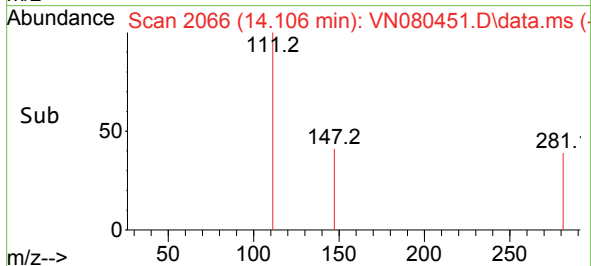
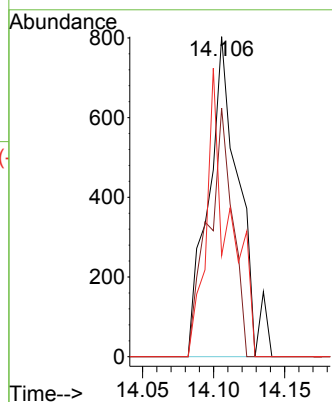
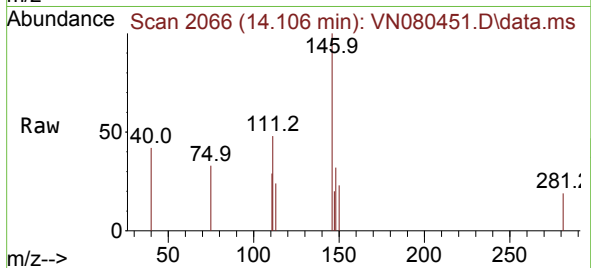
Tgt Ion:146 Resp: 1193

Ion Ratio Lower Upper

146 100

111 62.6 22.0 66.0

148 67.4 31.8 95.3



#93

1,2,4-Trichlorobenzene

Concen: 0.754 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN080451.D

Acq: 13 Dec 2023 09:58

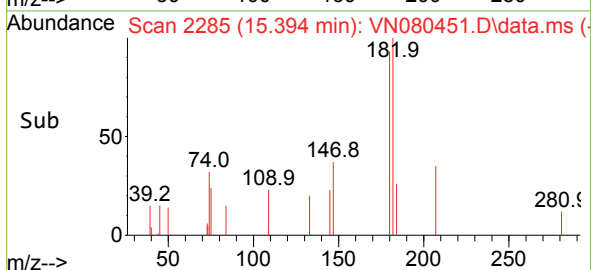
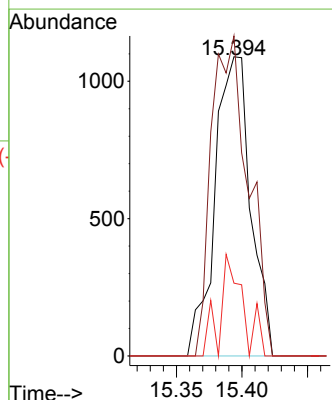
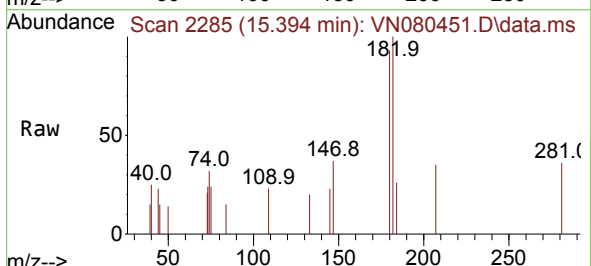
Tgt Ion:180 Resp: 2067

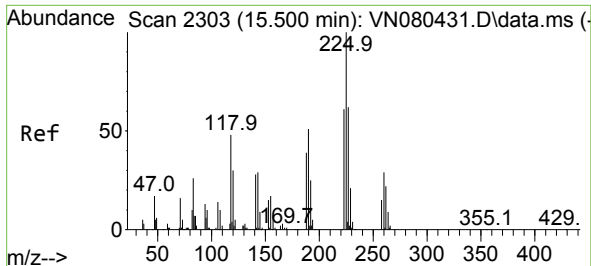
Ion Ratio Lower Upper

180 100

182 110.2 46.1 138.2

145 22.0 16.6 49.8

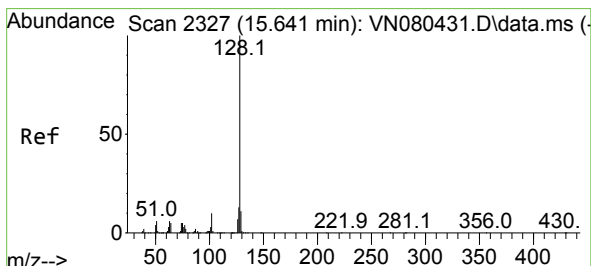
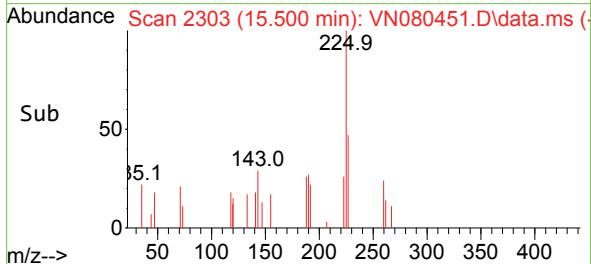
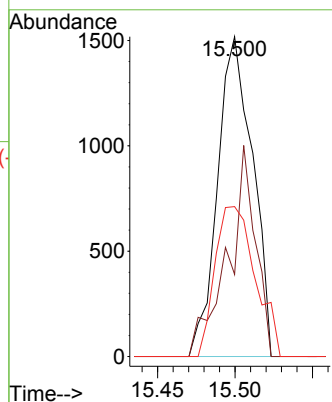
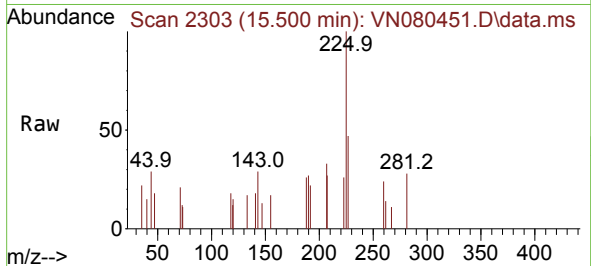




#94
Hexachlorobutadiene
Concen: 1.526 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

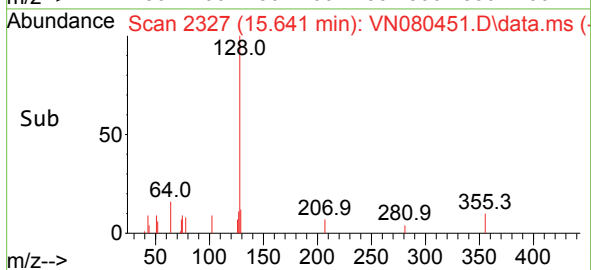
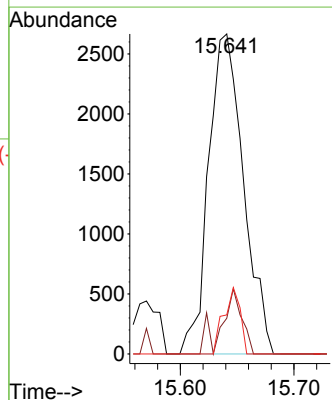
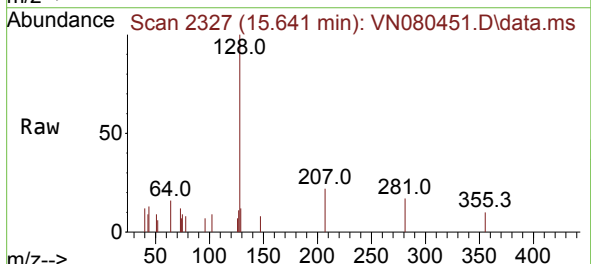
Instrument :
MSVOA_N
ClientSampleId :

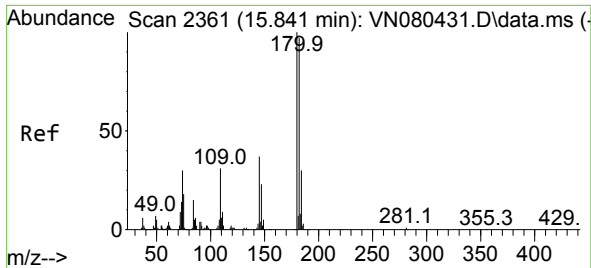
Tgt Ion:225 Resp: 2382
Ion Ratio Lower Upper
225 100
223 52.1 31.3 93.8
227 53.9 31.9 95.9



#95
Naphthalene
Concen: 0.686 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN080451.D
Acq: 13 Dec 2023 09:58

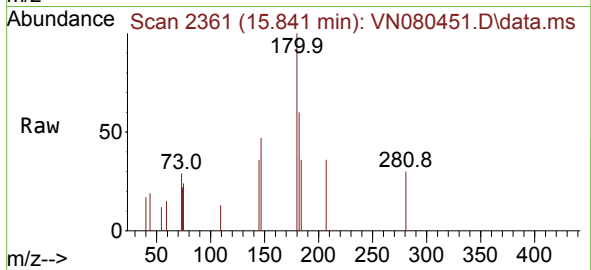
Tgt Ion:128 Resp: 5714
Ion Ratio Lower Upper
128 100
127 9.9 10.0 15.0#
129 9.7 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.750 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN080451.D
 Acq: 13 Dec 2023 09:58

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1985
Ion	Ratio	Lower	Upper
180	100		
182	115.8	46.2	138.6
145	40.6	17.5	52.6

