

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052324\
 Data File : VN082322.D
 Acq On : 23 May 2024 15:30
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

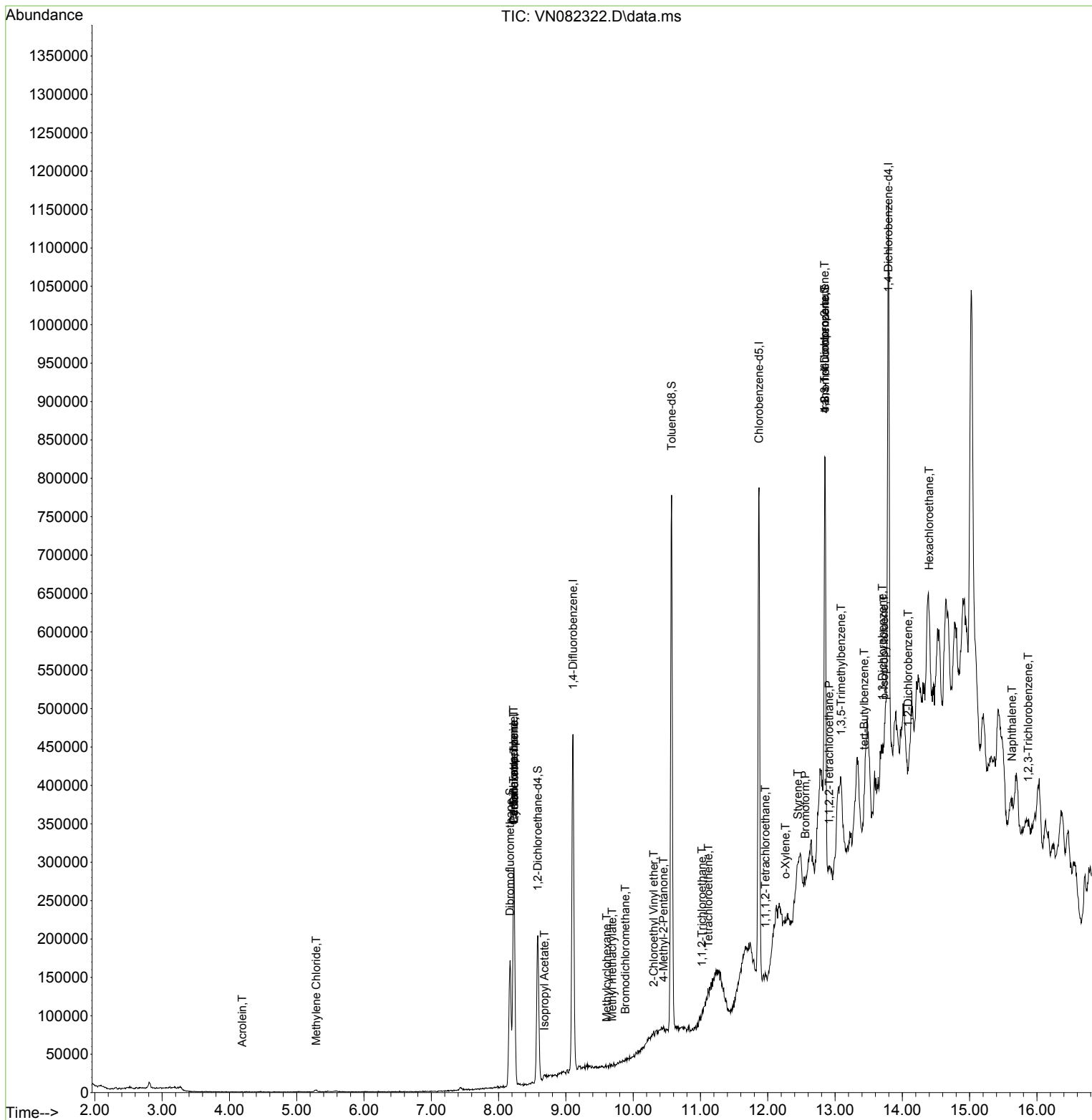
Quant Time: May 24 04:19:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051524W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 16 05:21:06 2024
 Response via : Initial Calibration

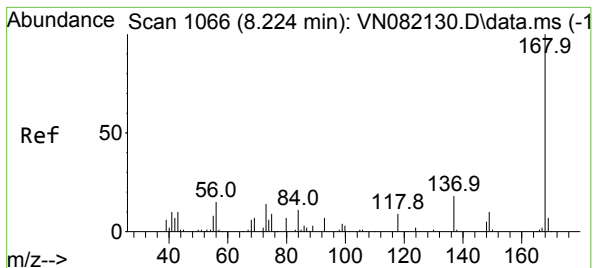
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	201329	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	352620	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	343988	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	169344	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	158389	49.823	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.640%
35) Dibromofluoromethane	8.171	113	111351	51.334	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.660%
50) Toluene-d8	10.571	98	452757	54.442	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	108.880%
62) 4-Bromofluorobenzene	12.853	95	177522	59.806	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	=	119.620%
Target Compounds						
					Qvalue	
13) Acrolein	4.189	56	184	0.487	ug/l #	56
20) Methylene Chloride	5.289	84	1510	0.574	ug/l #	73
31) Cyclohexane	8.230	56	6359	1.252	ug/l #	41
36) 1,1-Dichloropropene	8.224	75	18215	5.007	ug/l #	52
38) Carbon Tetrachloride	8.224	117	23242	6.302	ug/l #	20
39) Methylcyclohexane	9.606	83	969	0.243	ug/l #	68
43) Isopropyl Acetate	8.682	43	2988	0.414	ug/l #	52
47) Bromodichloromethane	9.882	83	895	0.231	ug/l #	42
48) Methyl methacrylate	9.688	41	1062	0.309	ug/l #	42
51) 4-Methyl-2-Pentanone	10.453	43	1176	0.287	ug/l #	34
55) 1,1,2-Trichloroethane	11.023	97	1074	0.454	ug/l #	53
58) 2-Chloroethyl Vinyl ether	10.306	63	465	0.224	ug/l	98
64) Tetrachloroethene	11.118	164	535	0.210	ug/l #	1
66) 1,1,1,2-Tetrachloroethane	11.965	131	531	0.212	ug/l #	8
69) o-Xylene	12.265	106	1422	0.295	ug/l	41
70) Styrene	12.447	104	5710	0.712	ug/l #	49
71) Bromoform	12.559	173	1534	1.461	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.912	83	2513	0.648	ug/l #	27
76) 1,2,3-Trichloropropane	12.847	75	103162	28.943	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.088	105	2348	0.216	ug/l	71
81) trans-1,4-Dichloro-2-b...	12.847	75	103162	67.697	ug/l #	13
83) tert-Butylbenzene	13.435	119	2759	0.290	ug/l #	62
86) p-Isopropyltoluene	13.729	119	43258	4.035	ug/l #	56
87) 1,3-Dichlorobenzene	13.706	146	4657	0.802	ug/l #	38
90) Hexachloroethane	14.400	117	1108	0.558	ug/l	70
91) 1,2-Dichlorobenzene	14.088	146	1445	0.263	ug/l #	41
95) Naphthalene	15.629	128	9070	0.939	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.870	180	824	0.267	ug/l #	1

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

Quant Time: May 24 04:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051524W.M
Quant Title : SW846 8260
QLast Update : Thu May 16 05:21:06 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 10

Delta R.T. 0.006 min

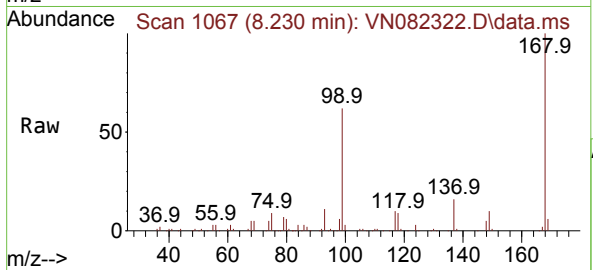
Lab File: VN082322.D

Acq: 23 May 2024 15:30

Instrument :

MSVOA_N

ClientSampleId :

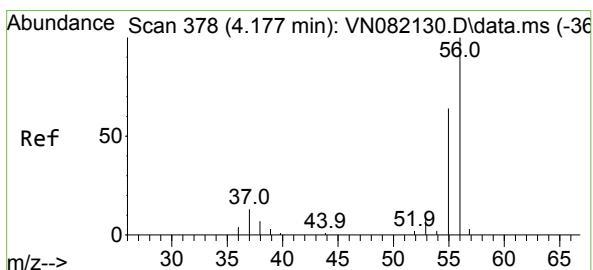
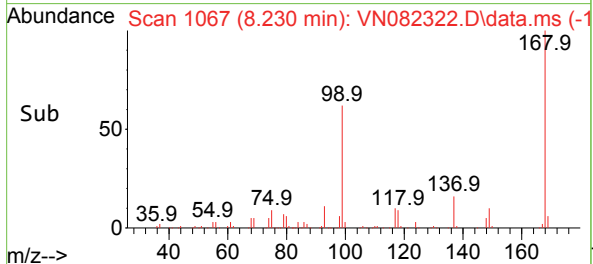
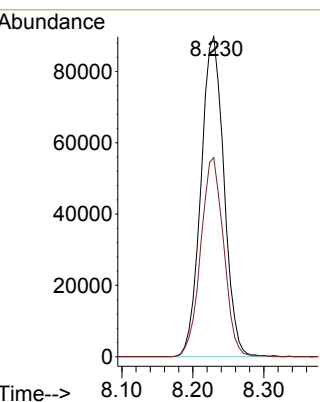


Tgt Ion:168 Resp: 201329

Ion Ratio Lower Upper

168 100

99 62.2 48.2 72.4



#13

Acrolein

Concen: 0.487 ug/l

RT: 4.189 min Scan# 380

Delta R.T. 0.012 min

Lab File: VN082322.D

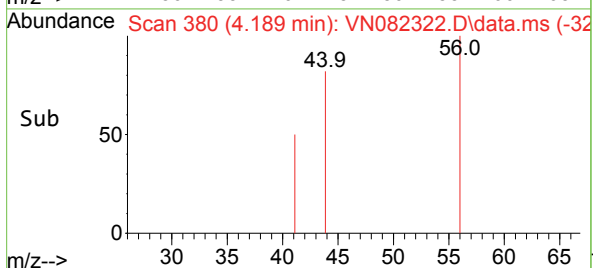
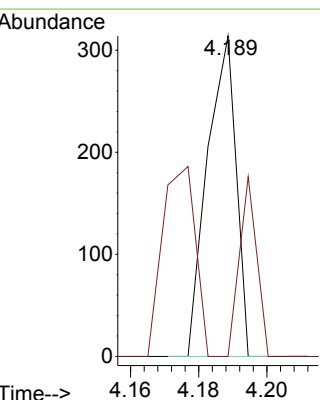
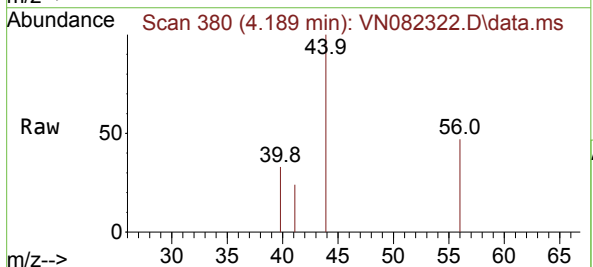
Acq: 23 May 2024 15:30

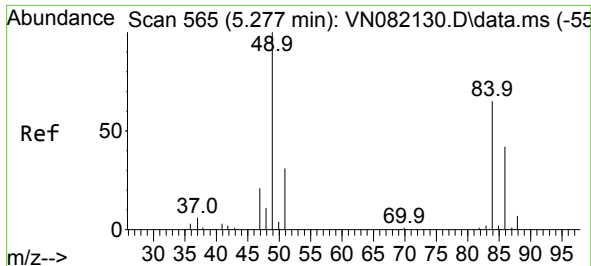
Tgt Ion: 56 Resp: 184

Ion Ratio Lower Upper

56 100

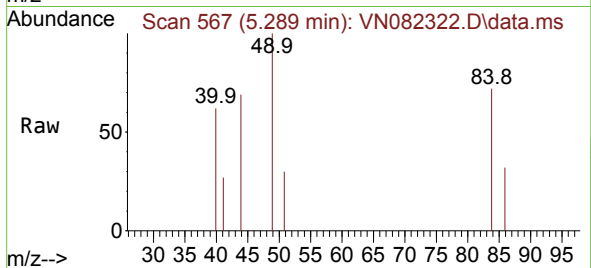
55 33.7 55.8 83.8#



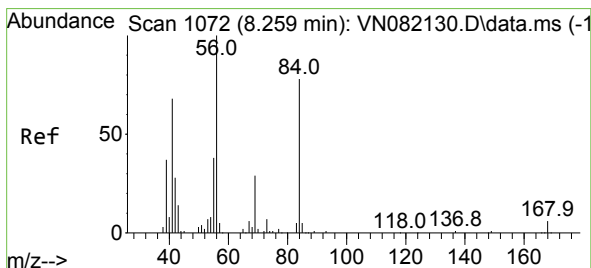
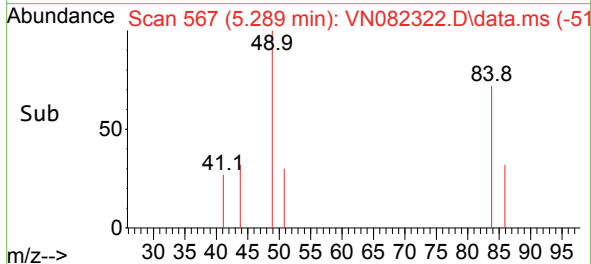
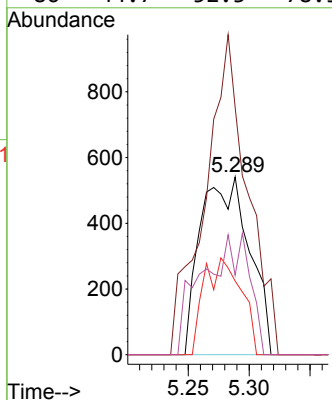


#20
Methylene Chloride
Concen: 0.574 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

Instrument :
MSVOA_N
ClientSampleId :

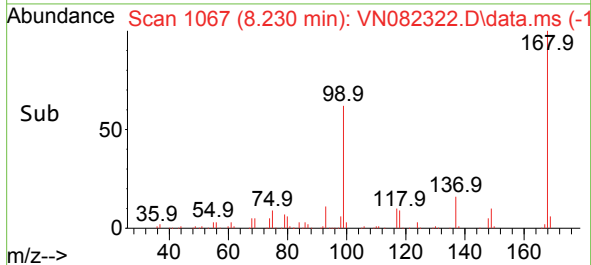
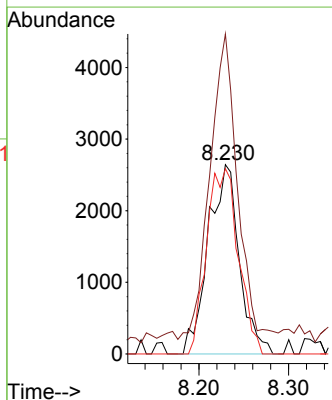
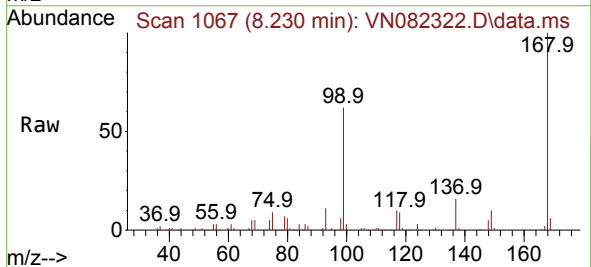


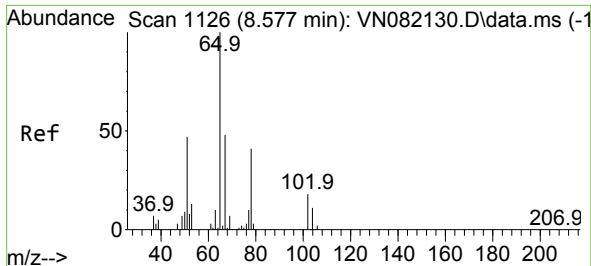
Tgt Ion:	84	Resp:	1510
Ion	Ratio	Lower	Upper
84	100		
49	139.2	84.9	127.3#
51	41.4	27.0	40.6#
86	44.7	52.3	78.5#



#31
Cyclohexane
Concen: 1.252 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.030 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

Tgt Ion:	56	Resp:	6359
Ion	Ratio	Lower	Upper
56	100		
69	161.4	24.4	36.6#
84	98.0	77.0	115.4





#33

1,2-Dichloroethane-d4

Concen: 49.823 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN082322.D

Acq: 23 May 2024 15:30

Instrument :

MSVOA_N

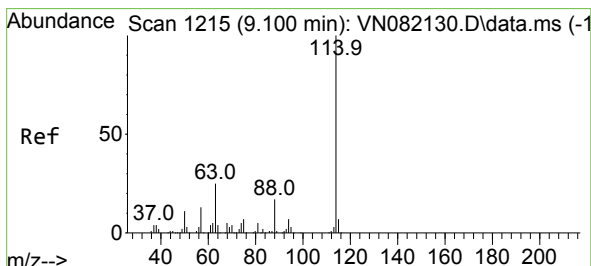
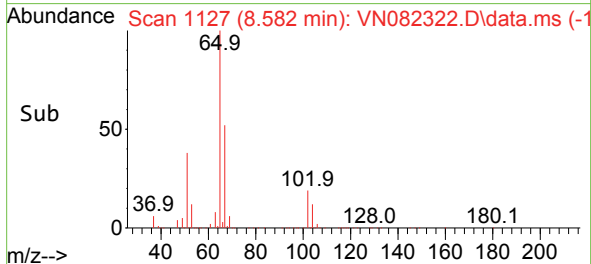
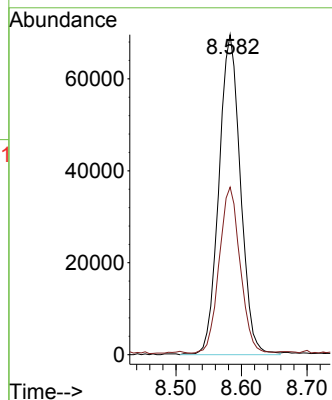
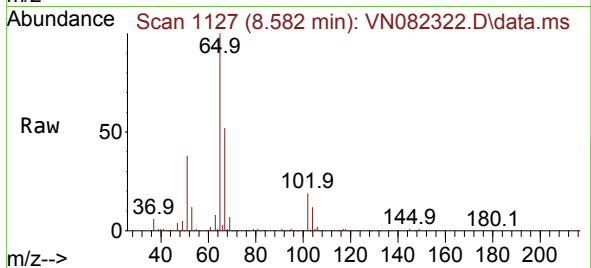
ClientSampleId :

Tgt Ion: 65 Resp: 158389

Ion Ratio Lower Upper

65 100

67 50.4 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN082322.D

Acq: 23 May 2024 15:30

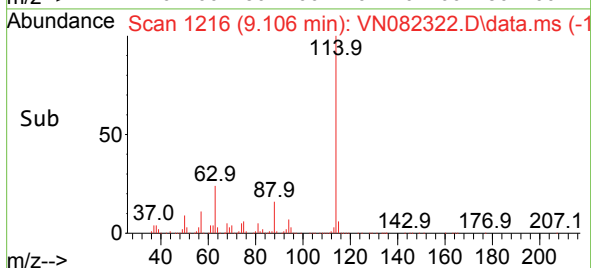
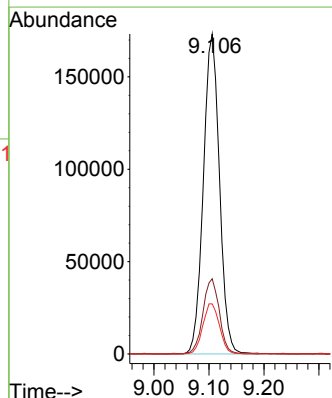
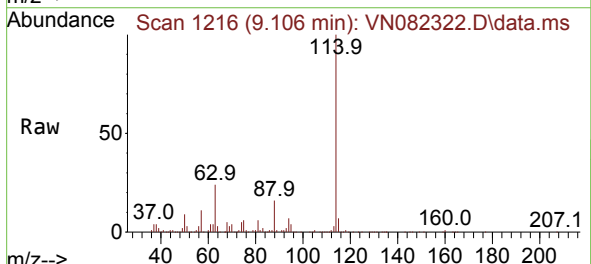
Tgt Ion: 114 Resp: 352620

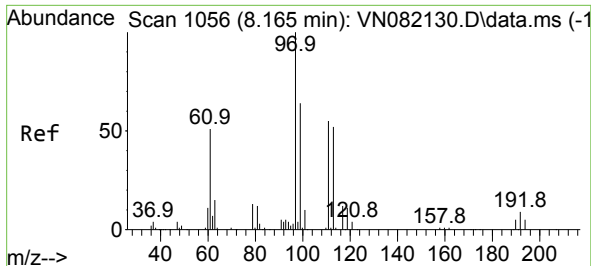
Ion Ratio Lower Upper

114 100

63 23.4 0.0 41.0

88 15.7 0.0 31.4

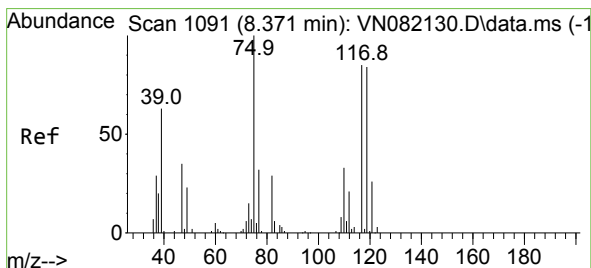
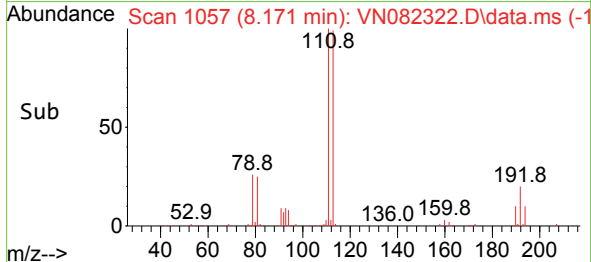
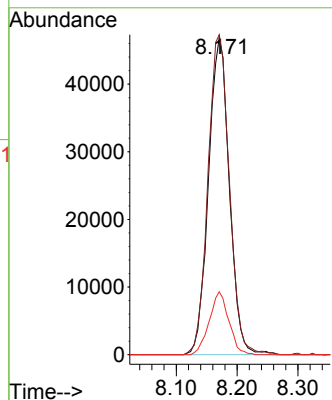
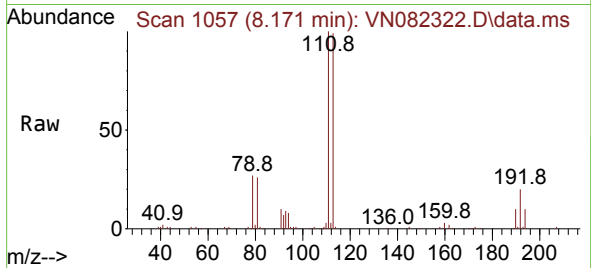




#35
Dibromofluoromethane
Concen: 51.334 ug/l
RT: 8.171 min Scan# 111351
Delta R.T. 0.006 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

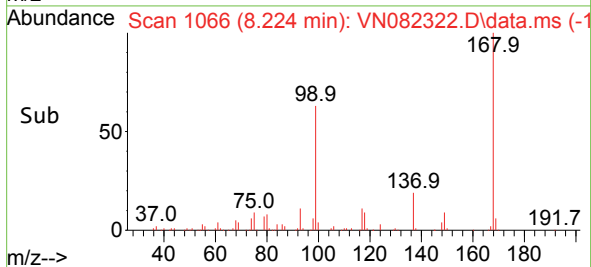
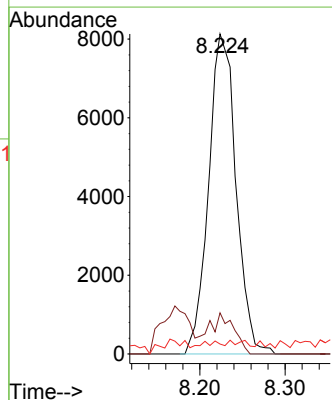
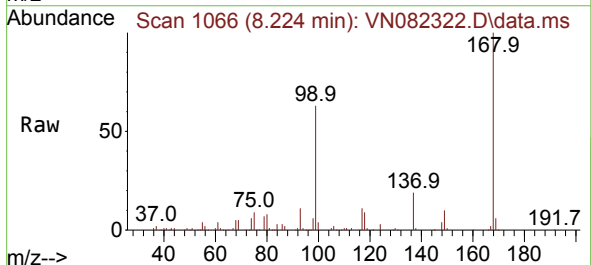
Instrument :
MSVOA_N
ClientSampleId :

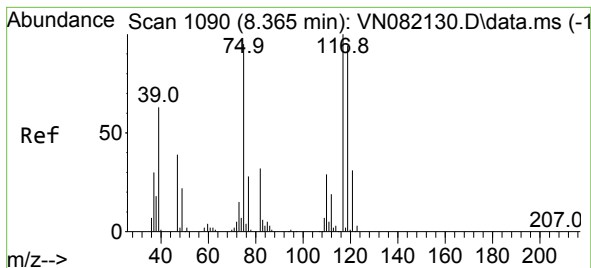
Tgt Ion:113 Resp: 111351
Ion Ratio Lower Upper
113 100
111 103.6 83.4 125.2
192 18.7 14.0 21.0



#36
1,1-Dichloropropene
Concen: 5.007 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

Tgt Ion: 75 Resp: 18215
Ion Ratio Lower Upper
75 100
110 11.1 17.8 53.5#
77 0.7 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.302 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

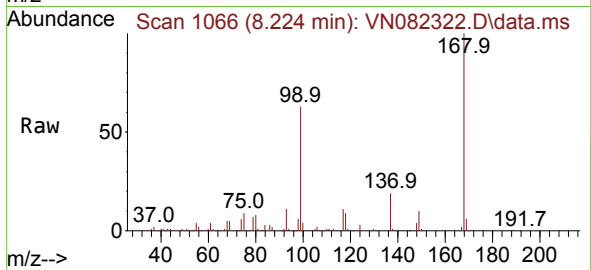
Lab File: VN082322.D

Acq: 23 May 2024 15:30

Instrument :

MSVOA_N

ClientSampleId :



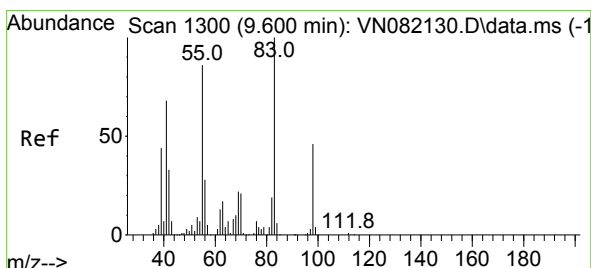
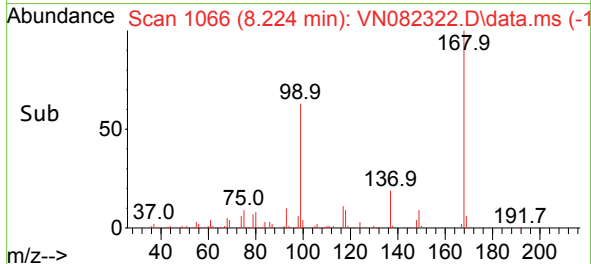
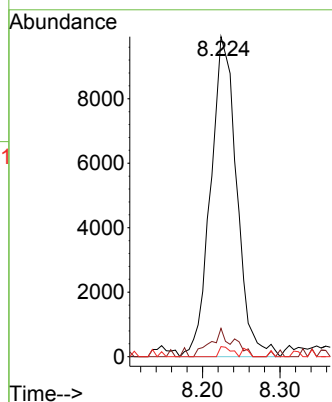
Tgt Ion:117 Resp: 23242

Ion Ratio Lower Upper

117 100

119 8.8 76.5 114.7#

121 3.1 23.9 35.9#



#39

Methylcyclohexane

Concen: 0.243 ug/l

RT: 9.606 min Scan# 1301

Delta R.T. 0.006 min

Lab File: VN082322.D

Acq: 23 May 2024 15:30

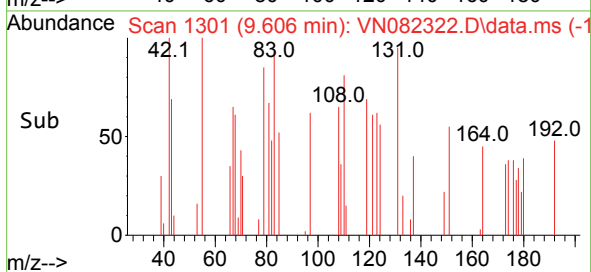
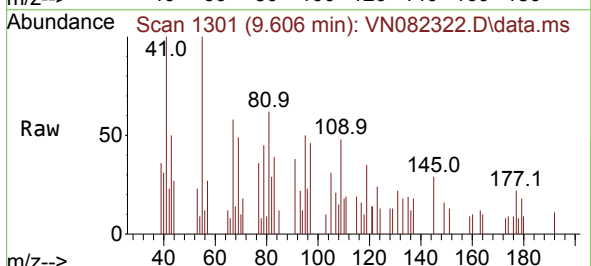
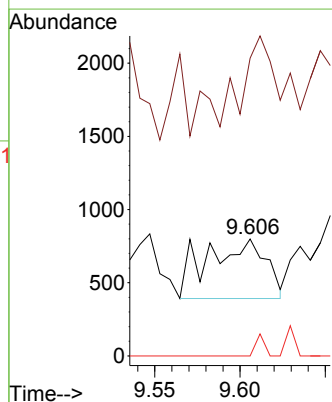
Tgt Ion: 83 Resp: 969

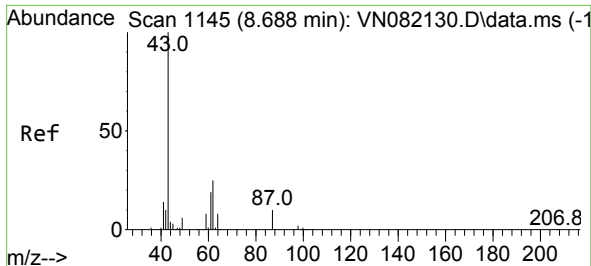
Ion Ratio Lower Upper

83 100

55 70.5 53.0 79.6

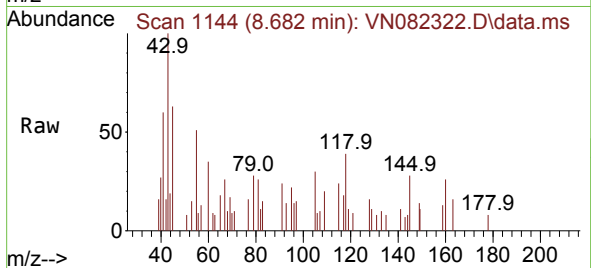
98 0.0 37.1 55.7#



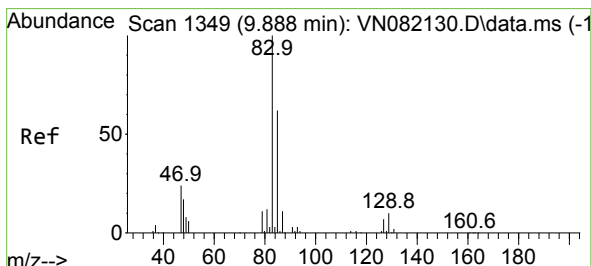
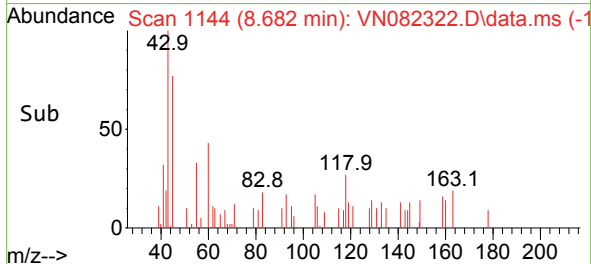
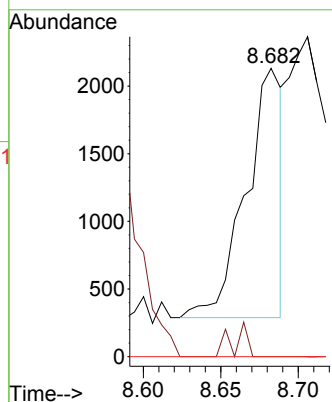


#43
Isopropyl Acetate
Concen: 0.414 ug/l
RT: 8.682 min Scan# 1145
Delta R.T. -0.006 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

Instrument :
MSVOA_N
ClientSampleId :

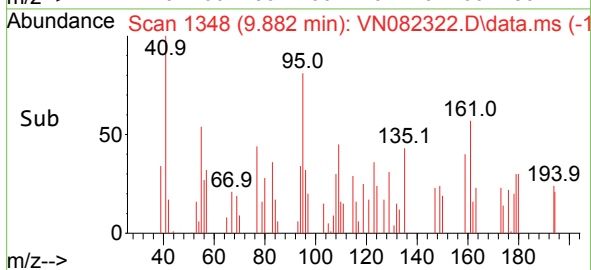
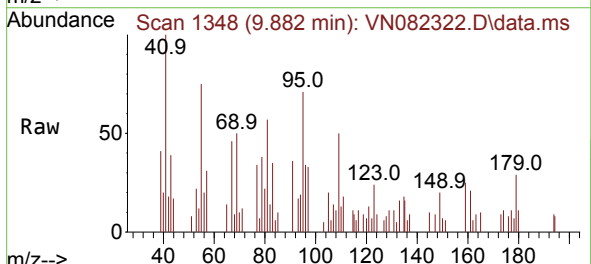
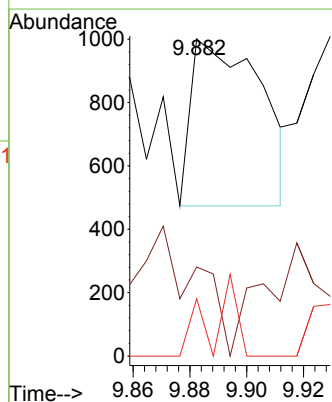


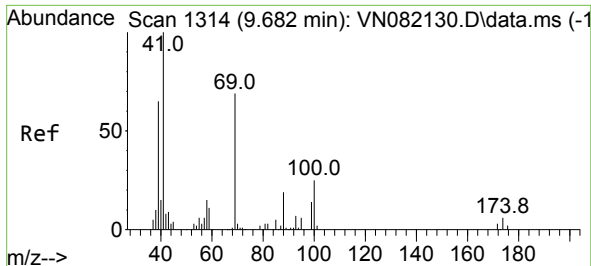
Tgt Ion: 43 Resp: 2988
Ion Ratio Lower Upper
43 100
61 0.0 22.8 34.2#
87 0.0 12.0 18.0#



#47
Bromodichloromethane
Concen: 0.231 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. -0.006 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

Tgt Ion: 83 Resp: 895
Ion Ratio Lower Upper
83 100
85 20.5 51.9 77.9#
127 34.3 7.5 11.3#





#48

Methyl methacrylate

Concen: 0.309 ug/l

RT: 9.688 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN082322.D

Acq: 23 May 2024 15:30

Instrument :

MSVOA_N

ClientSampleId :

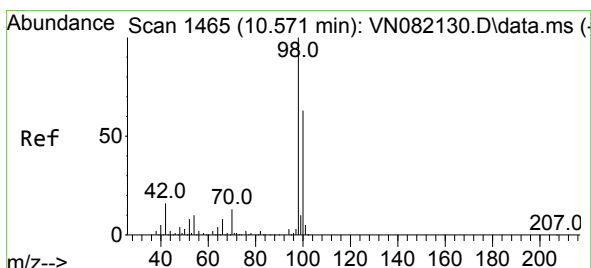
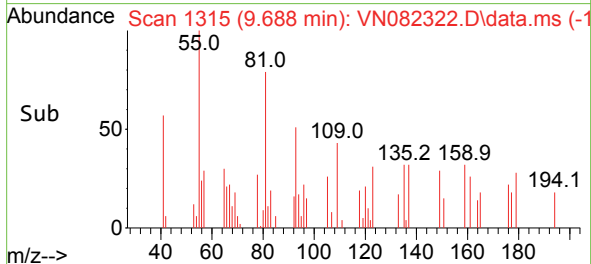
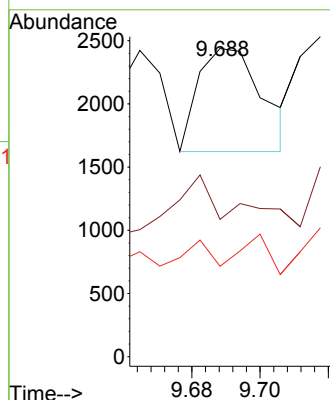
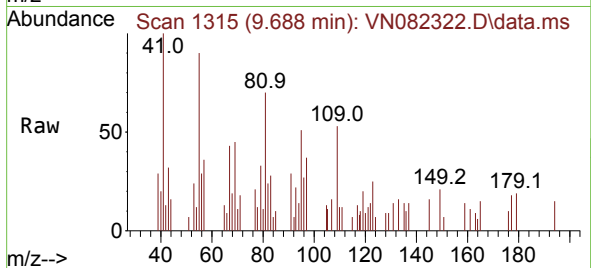
Tgt Ion: 41 Resp: 1062

Ion Ratio Lower Upper

41 100

69 55.2 77.9 116.9#

39 0.0 50.9 76.3#



#50

Toluene-d8

Concen: 54.442 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN082322.D

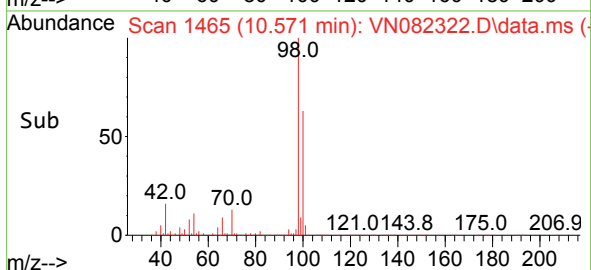
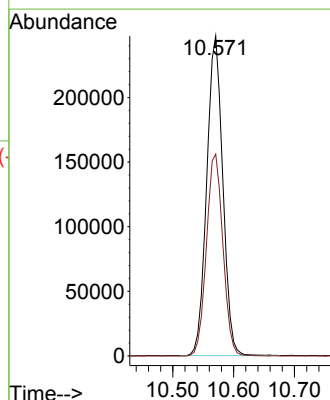
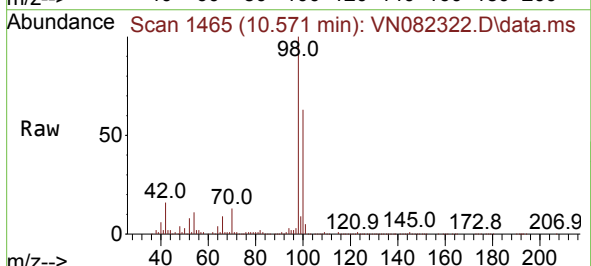
Acq: 23 May 2024 15:30

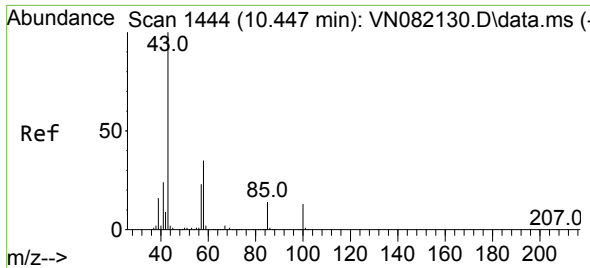
Tgt Ion: 98 Resp: 452757

Ion Ratio Lower Upper

98 100

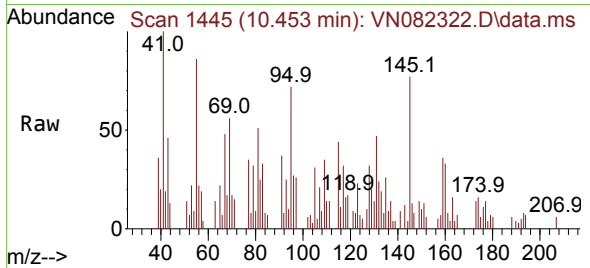
100 64.7 51.8 77.6



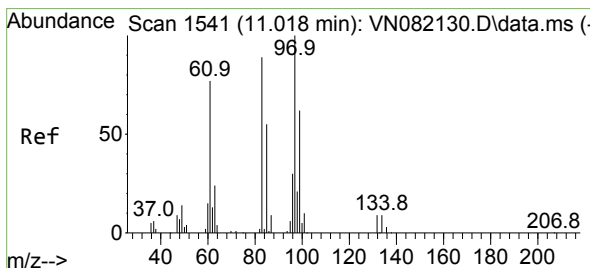
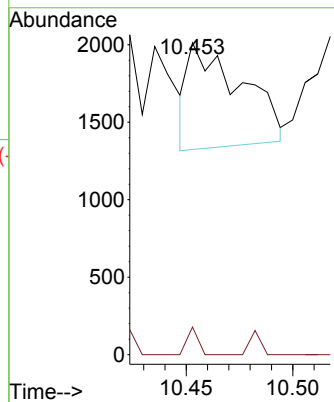
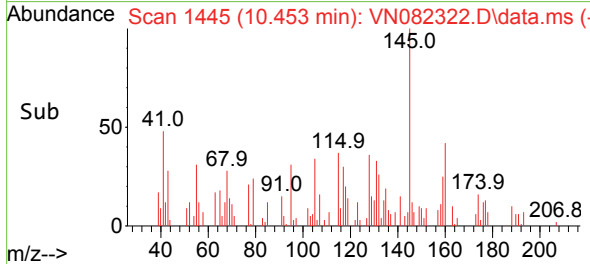


#51
4-Methyl-2-Pentanone
Concen: 0.287 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

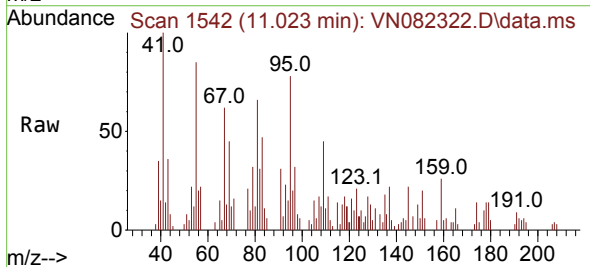
Instrument :
MSVOA_N
ClientSampleId :



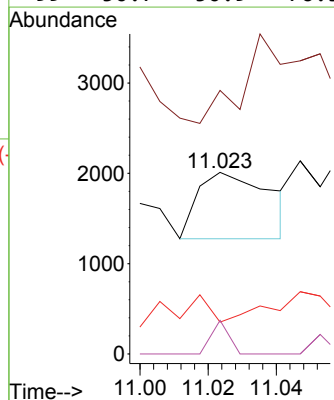
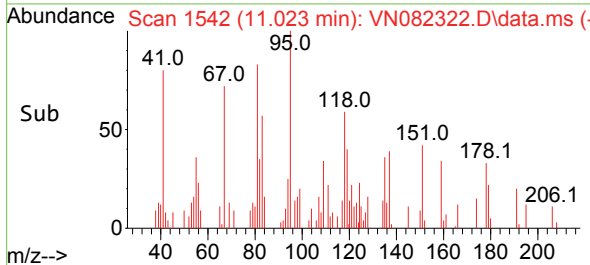
Tgt Ion: 43 Resp: 1176
Ion Ratio Lower Upper
43 100
58 0.0 33.2 49.8#

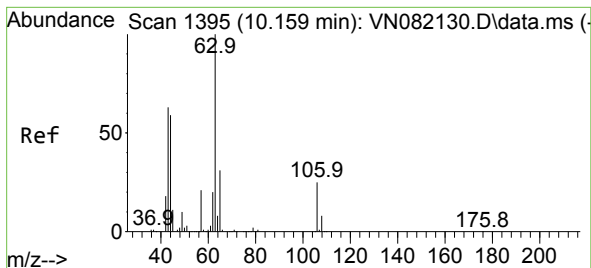


#55
1,1,2-Trichloroethane
Concen: 0.454 ug/l
RT: 11.023 min Scan# 1542
Delta R.T. 0.006 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30



Tgt Ion: 97 Resp: 1074
Ion Ratio Lower Upper
97 100
83 41.5 70.4 105.6#
85 0.0 45.6 68.4#
99 50.7 50.9 76.3#

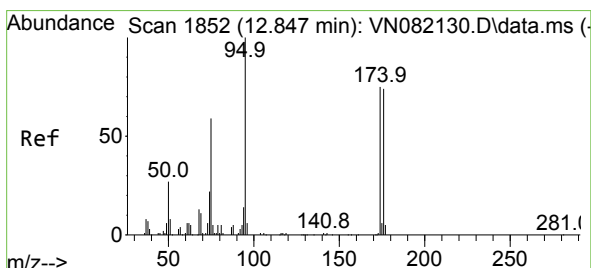
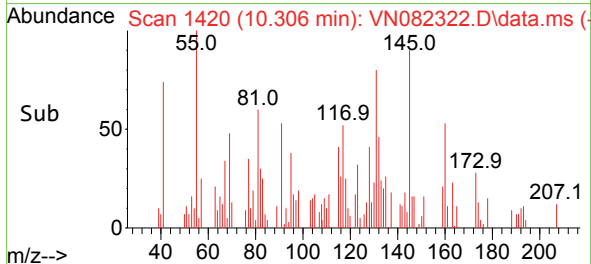
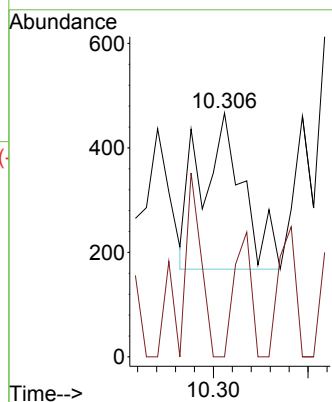
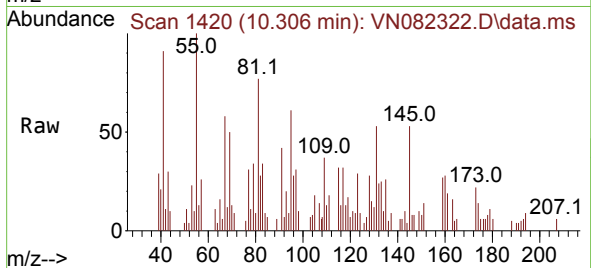




#58
 2-Chloroethyl Vinyl ether
 Concen: 0.224 ug/l
 RT: 10.306 min Scan# 1410
 Delta R.T. 0.147 min
 Lab File: VN082322.D
 Acq: 23 May 2024 15:30

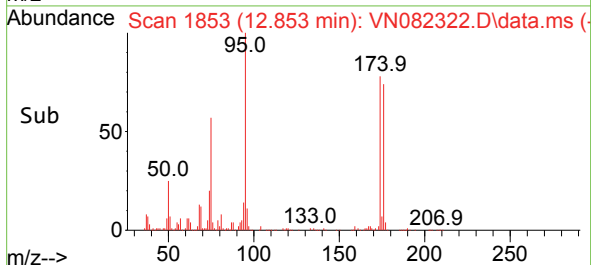
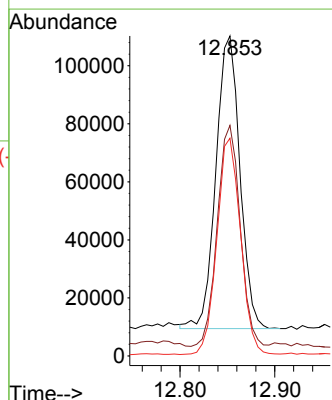
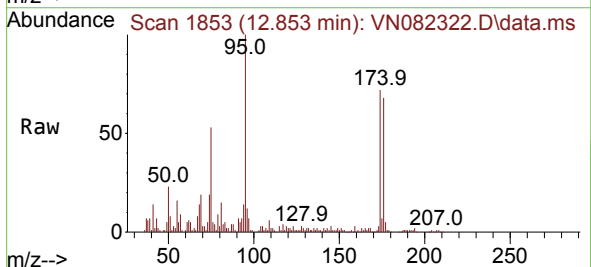
Instrument :
 MSVOA_N
 ClientSampleId :

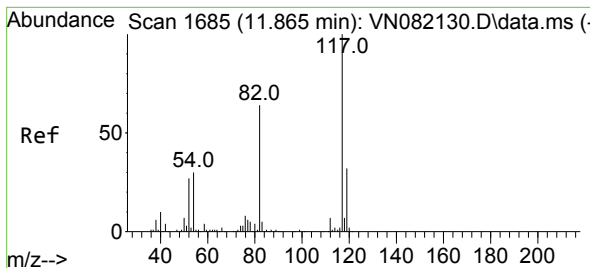
Tgt Ion: 63 Resp: 465
 Ion Ratio Lower Upper
 63 100
 106 31.6 24.6 36.8



#62
 4-Bromofluorobenzene
 Concen: 59.806 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.006 min
 Lab File: VN082322.D
 Acq: 23 May 2024 15:30

Tgt Ion: 95 Resp: 177522
 Ion Ratio Lower Upper
 95 100
 174 72.0 0.0 160.6
 176 72.7 0.0 152.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.870 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN082322.D

Acq: 23 May 2024 15:30

Instrument :

MSVOA_N

ClientSampleId :

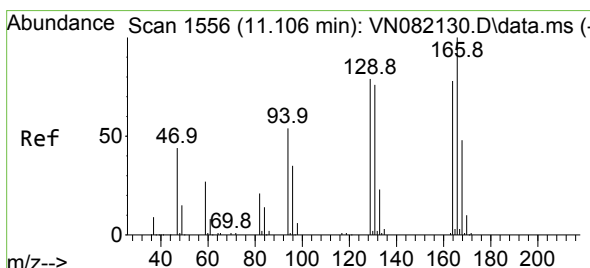
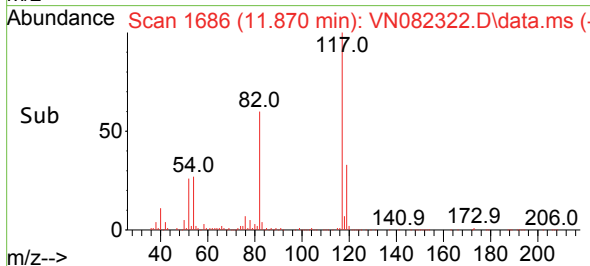
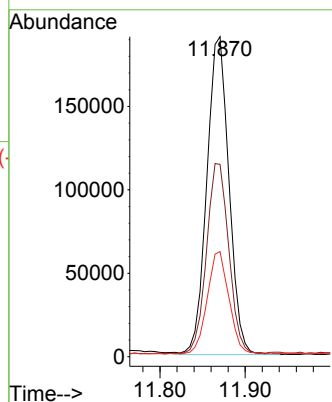
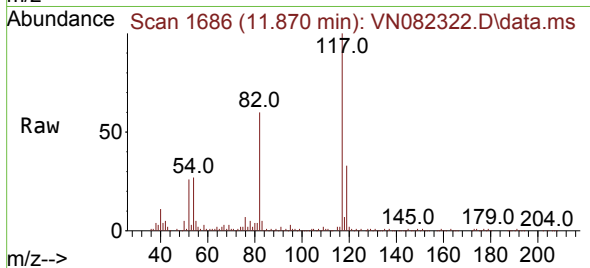
Tgt Ion:117 Resp: 343988

Ion Ratio Lower Upper

117 100

82 59.5 44.6 66.8

119 32.2 25.9 38.9



#64

Tetrachloroethene

Concen: 0.210 ug/l

RT: 11.118 min Scan# 1558

Delta R.T. 0.012 min

Lab File: VN082322.D

Acq: 23 May 2024 15:30

Tgt Ion:164 Resp: 535

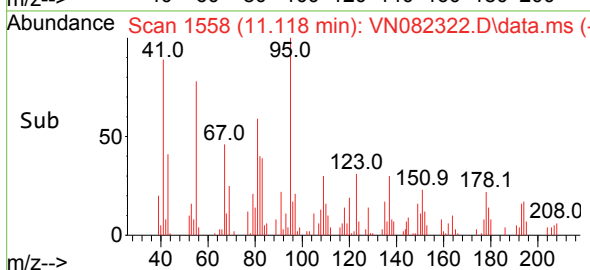
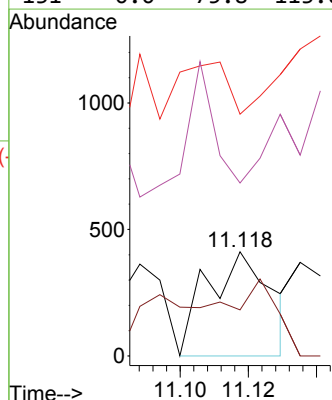
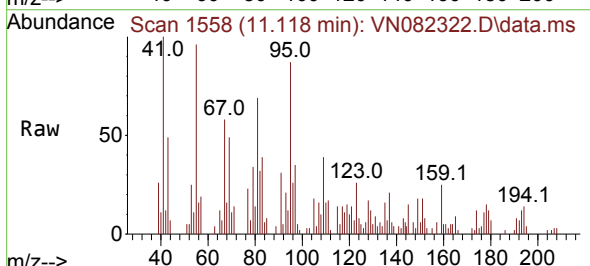
Ion Ratio Lower Upper

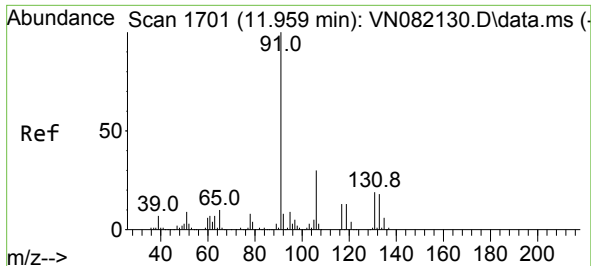
164 100

166 3.9 97.6 146.4#

129 0.0 73.7 110.5#

131 0.0 75.8 113.6#

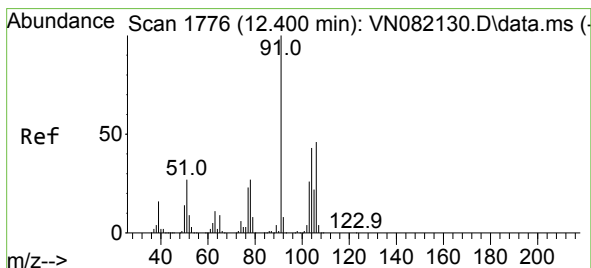
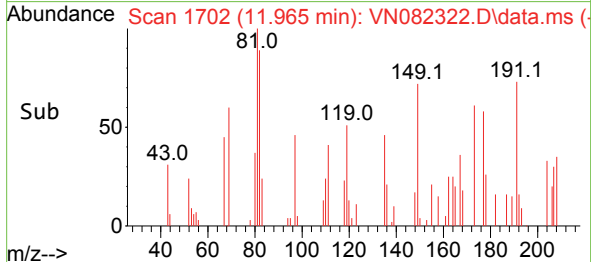
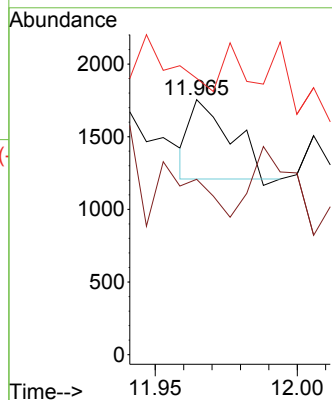
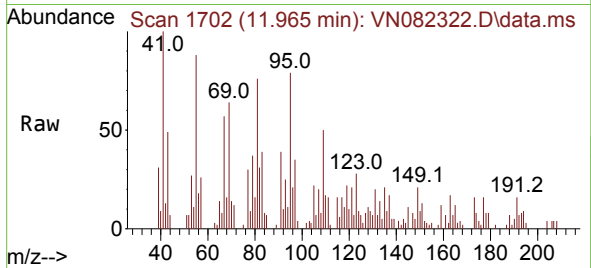




#66
1,1,1,2-Tetrachloroethane
Concen: 0.212 ug/l
RT: 11.965 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

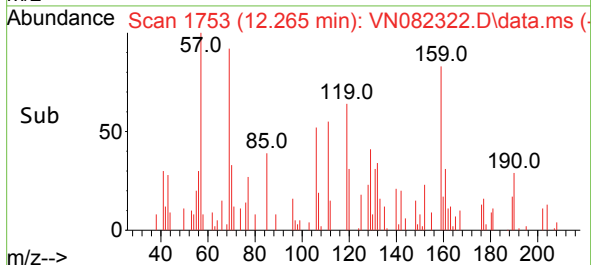
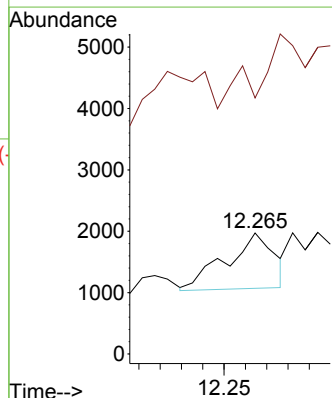
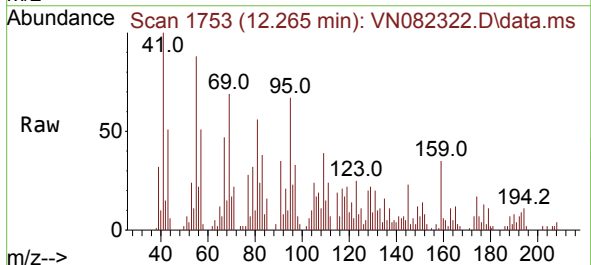
Instrument :
MSVOA_N
ClientSampleId :

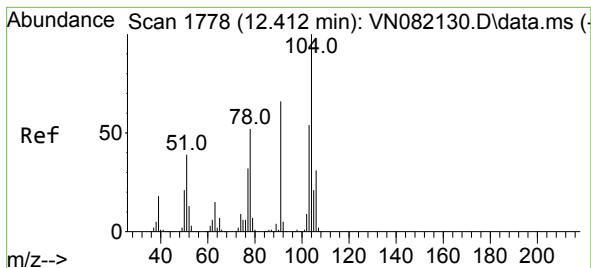
Tgt Ion:131 Resp: 531
Ion Ratio Lower Upper
131 100
133 0.0 47.5 142.6#
119 0.0 32.9 98.7#



#69
o-Xylene
Concen: 0.295 ug/l
RT: 12.265 min Scan# 1753
Delta R.T. -0.135 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

Tgt Ion:106 Resp: 1422
Ion Ratio Lower Upper
106 100
91 118.1 104.7 314.1





#70

Styrene

Concen: 0.712 ug/l

RT: 12.447 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN082322.D

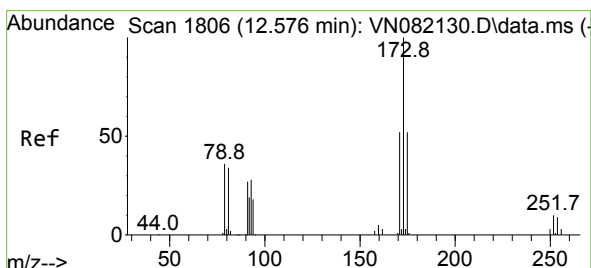
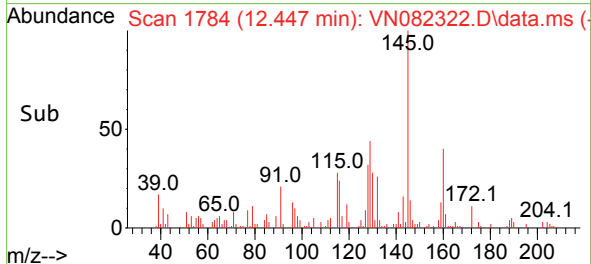
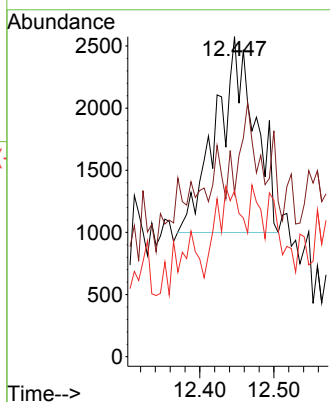
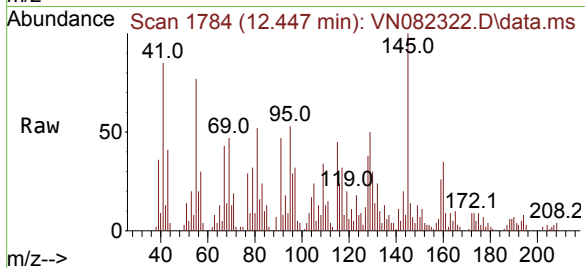
Acq: 23 May 2024 15:30

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	104	Resp:	5710
Ion Ratio	Lower	Upper	
104	100		
78	0.0	38.6	58.0#
103	30.7	43.8	65.6#



#71

Bromoform

Concen: 1.461 ug/l

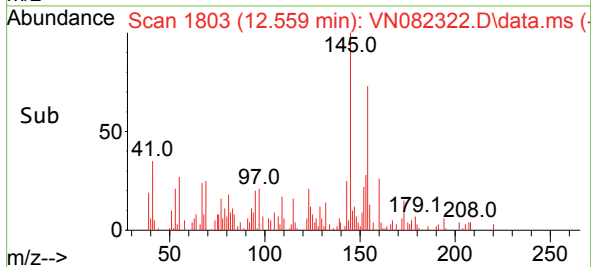
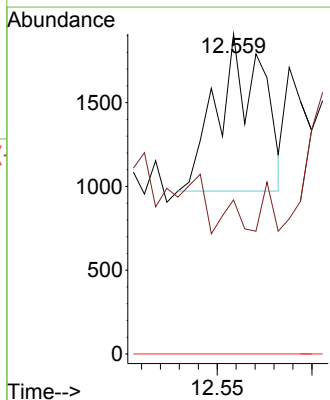
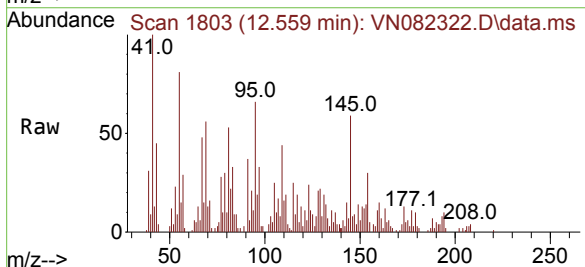
RT: 12.559 min Scan# 1803

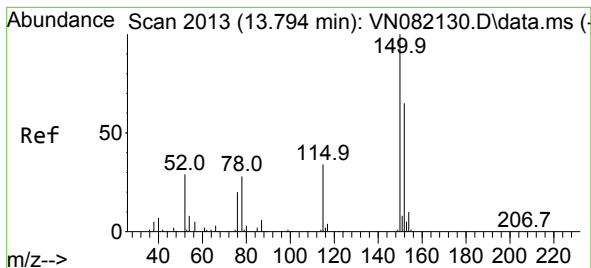
Delta R.T. -0.017 min

Lab File: VN082322.D

Acq: 23 May 2024 15:30

Tgt Ion:	173	Resp:	1534
Ion Ratio	Lower	Upper	
173	100		
175	0.0	24.6	74.0#
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

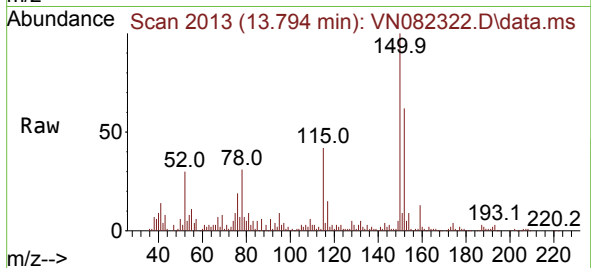
Lab File: VN082322.D

Acq: 23 May 2024 15:30

Instrument :

MSVOA_N

ClientSampleId :



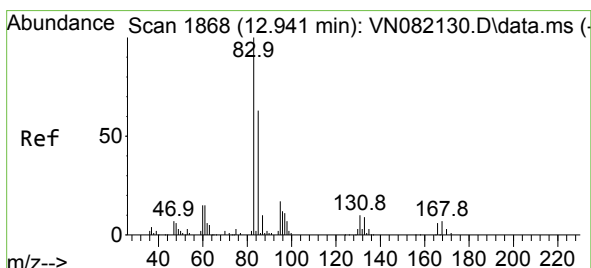
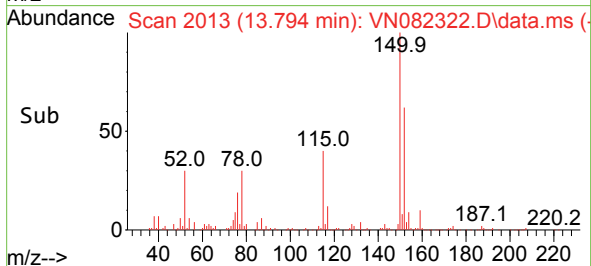
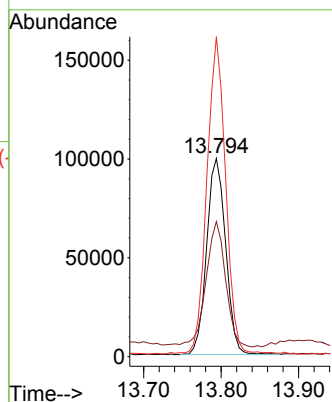
Tgt Ion:152 Resp: 169344

Ion Ratio Lower Upper

152 100

115 65.8 30.4 91.3

150 158.5 0.0 353.2



#75

1,1,2,2-Tetrachloroethane

Concen: 0.648 ug/l

RT: 12.912 min Scan# 1863

Delta R.T. -0.030 min

Lab File: VN082322.D

Acq: 23 May 2024 15:30

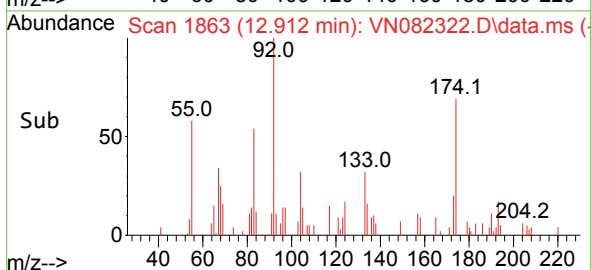
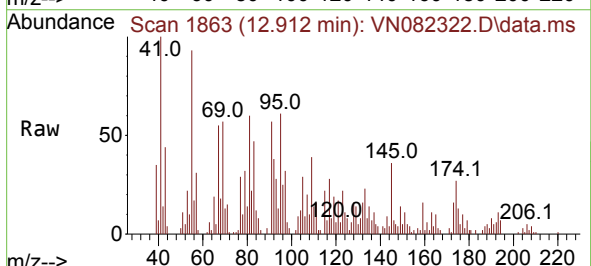
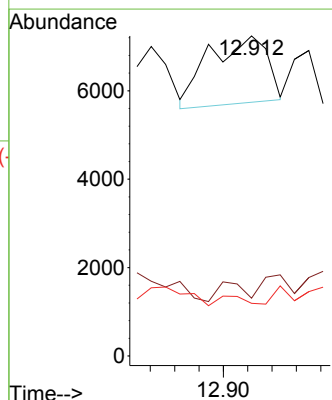
Tgt Ion: 83 Resp: 2513

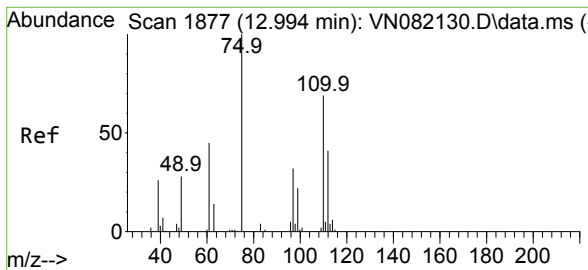
Ion Ratio Lower Upper

83 100

131 15.6 5.5 16.4

85 0.0 32.9 98.6#

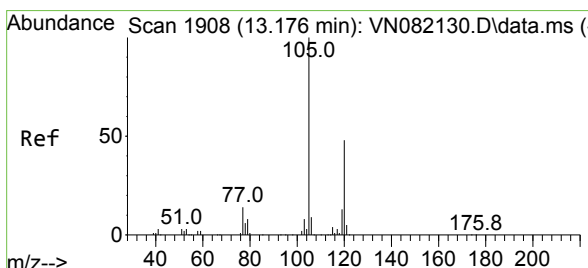
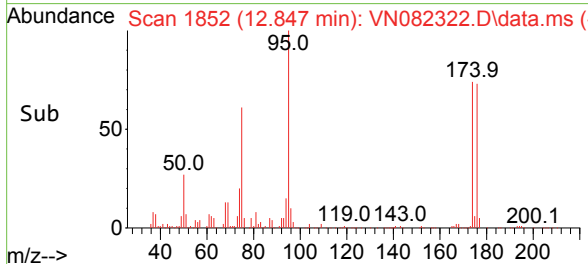
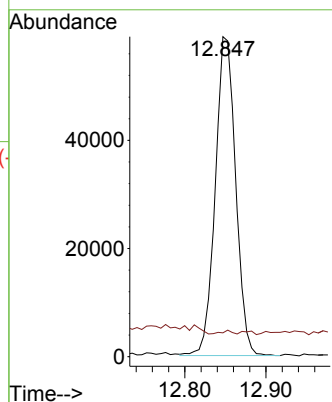
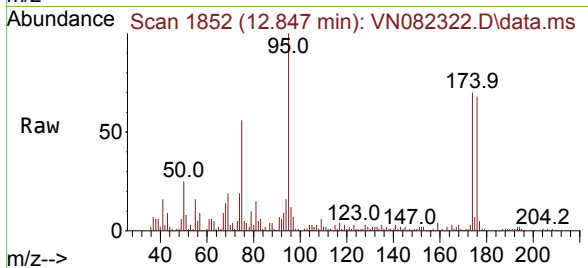




#76
 1,2,3-Trichloropropane
 Concen: 28.943 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN082322.D
 Acq: 23 May 2024 15:30

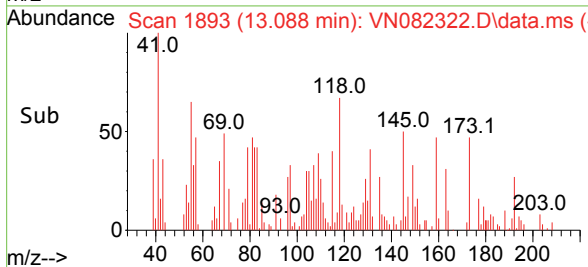
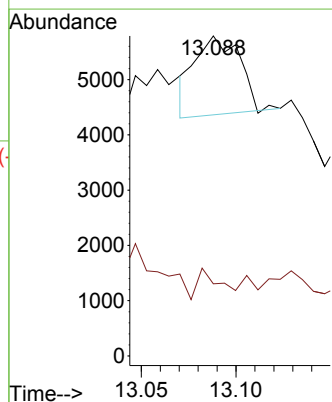
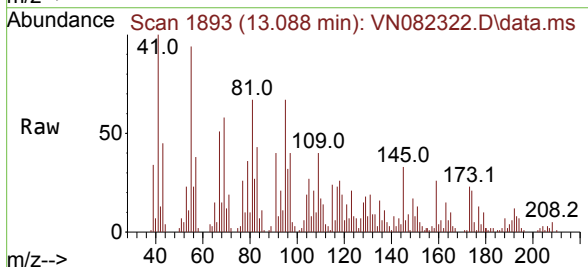
Instrument :
 MSVOA_N
 ClientSampleId :

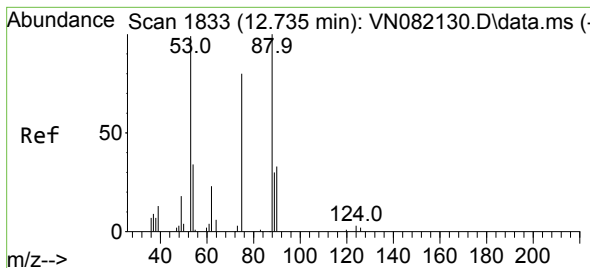
Tgt Ion: 75 Resp: 103162
 Ion Ratio Lower Upper
 75 100
 77 0.5 90.5 271.3#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.216 ug/l
 RT: 13.088 min Scan# 1893
 Delta R.T. -0.088 min
 Lab File: VN082322.D
 Acq: 23 May 2024 15:30

Tgt Ion: 105 Resp: 2348
 Ion Ratio Lower Upper
 105 100
 120 29.6 24.8 74.3

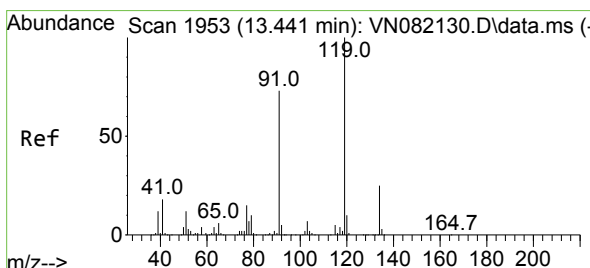
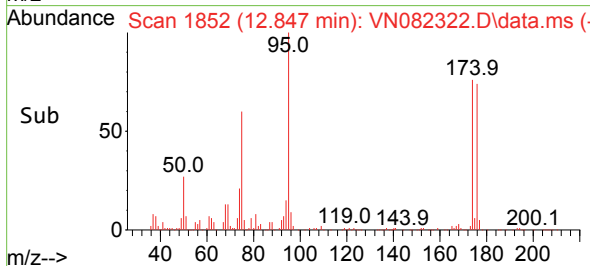
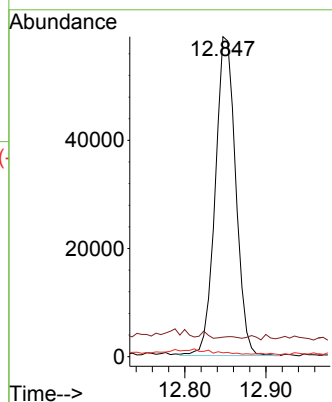
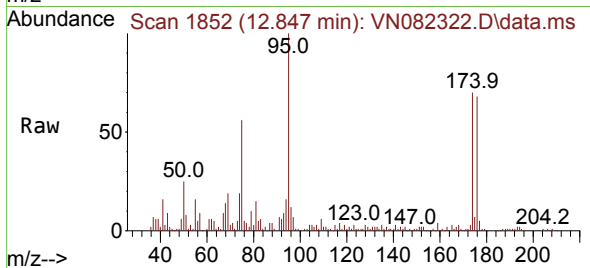




#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.697 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN082322.D
 Acq: 23 May 2024 15:30

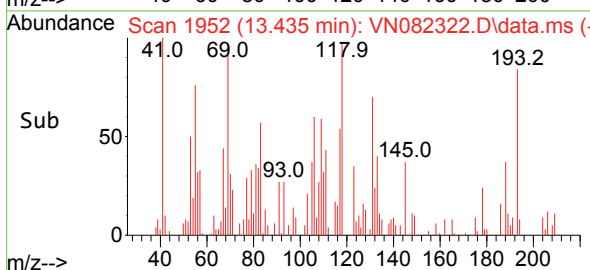
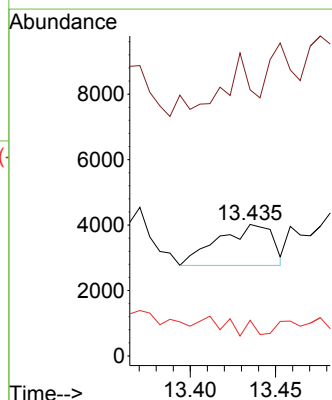
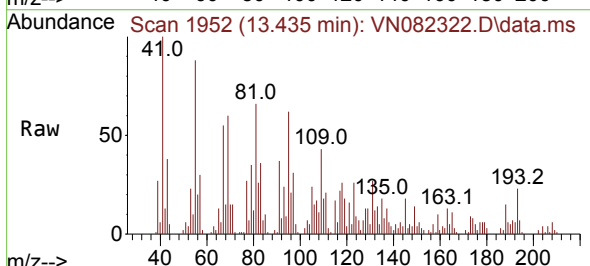
Instrument :
 MSVOA_N
 ClientSampleId :

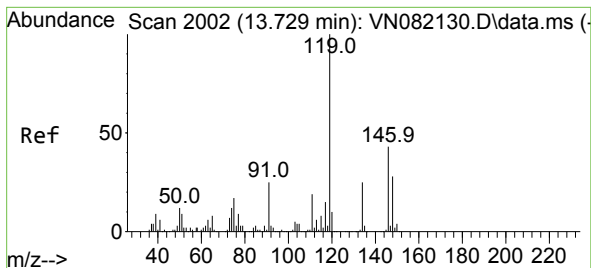
Tgt Ion: 75 Resp: 103162
 Ion Ratio Lower Upper
 75 100
 53 0.4 72.9 109.3#
 89 0.0 39.1 58.7#



#83
 tert-Butylbenzene
 Concen: 0.290 ug/l
 RT: 13.435 min Scan# 1952
 Delta R.T. -0.006 min
 Lab File: VN082322.D
 Acq: 23 May 2024 15:30

Tgt Ion: 119 Resp: 2759
 Ion Ratio Lower Upper
 119 100
 91 38.2 32.6 97.8
 134 0.0 12.4 37.0#





#86

p-Isopropyltoluene

Concen: 4.035 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN082322.D

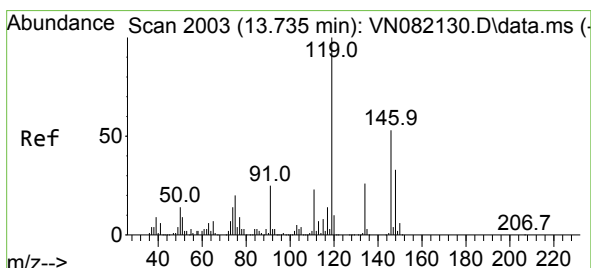
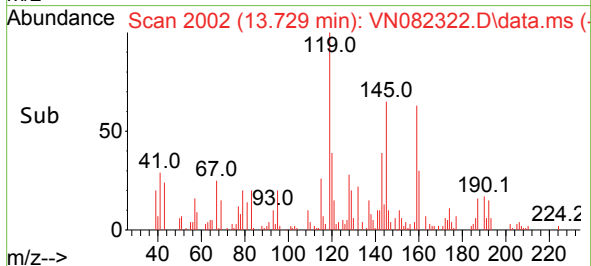
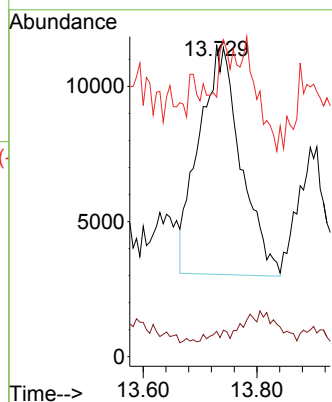
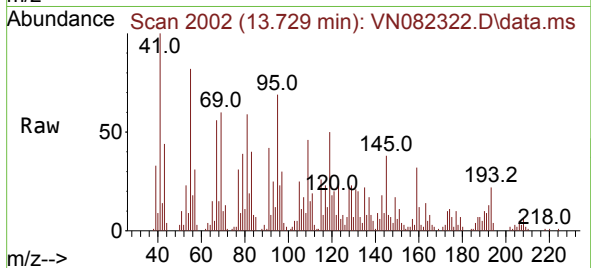
Acq: 23 May 2024 15:30

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	119	Resp:	43258
Ion	Ratio	Lower	Upper
119	100		
134	1.2	13.2	39.5#
91	5.1	11.8	35.3#



#87

1,3-Dichlorobenzene

Concen: 0.802 ug/l

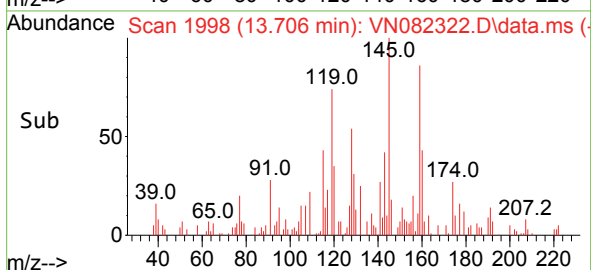
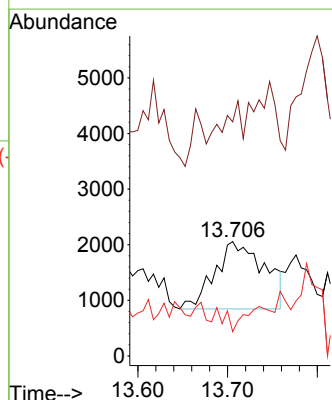
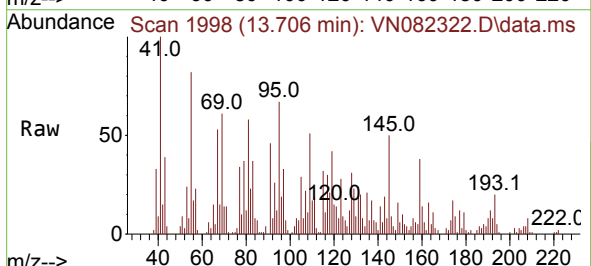
RT: 13.706 min Scan# 1998

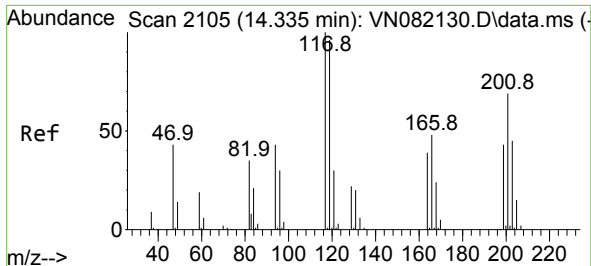
Delta R.T. -0.030 min

Lab File: VN082322.D

Acq: 23 May 2024 15:30

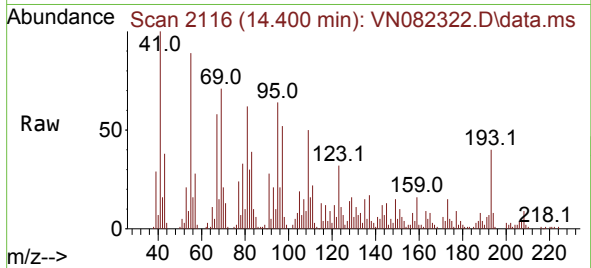
Tgt Ion:	146	Resp:	4657
Ion	Ratio	Lower	Upper
146	100		
111	21.4	20.8	62.5
148	0.0	32.1	96.3#



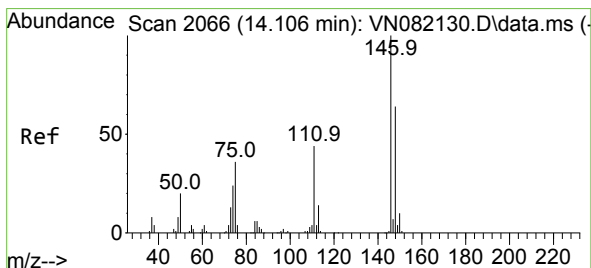
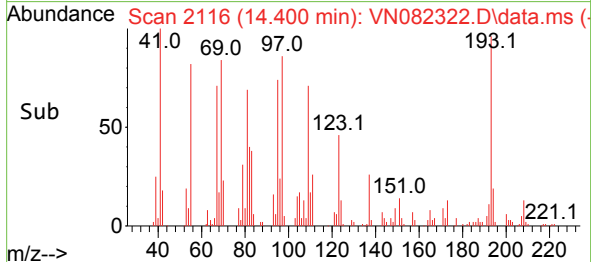
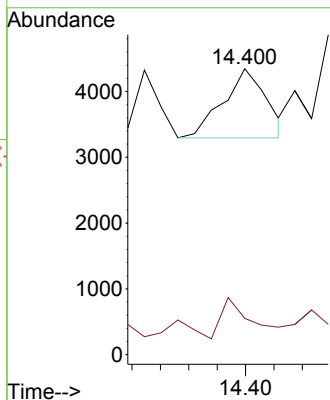


#90
Hexachloroethane
Concen: 0.558 ug/l
RT: 14.400 min Scan# 2105
Delta R.T. 0.065 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

Instrument :
MSVOA_N
ClientSampleId :

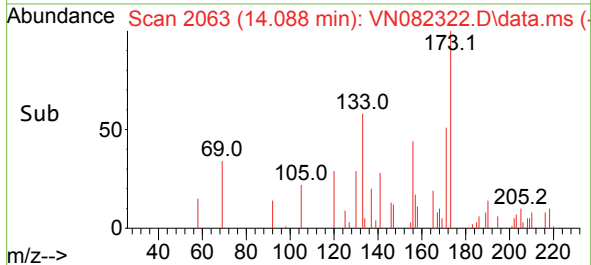
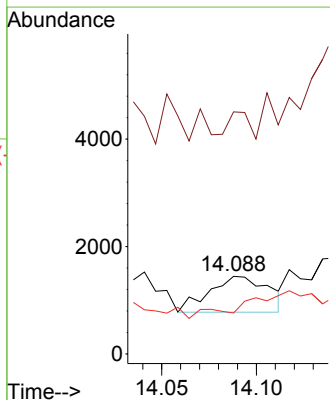
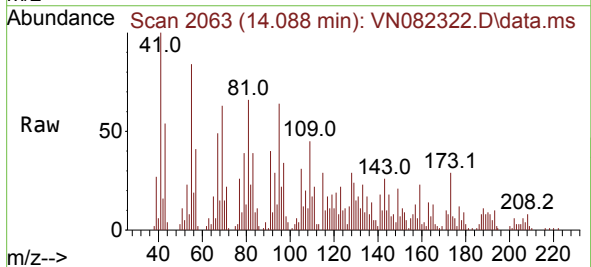


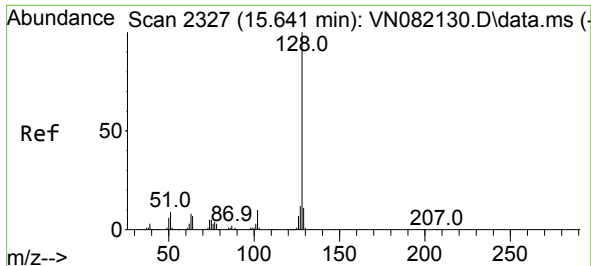
Tgt Ion:117 Resp: 1108
Ion Ratio Lower Upper
117 100
201 42.2 33.3 99.8



#91
1,2-Dichlorobenzene
Concen: 0.263 ug/l
RT: 14.088 min Scan# 2063
Delta R.T. -0.018 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

Tgt Ion:146 Resp: 1445
Ion Ratio Lower Upper
146 100
111 26.7 21.3 64.0
148 0.0 31.8 95.4#

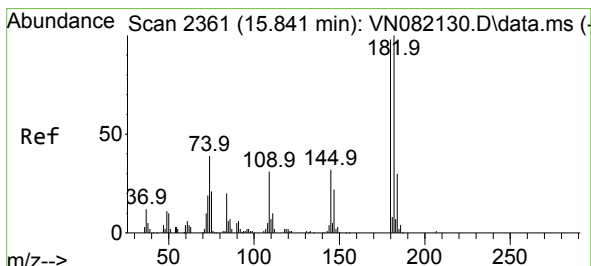
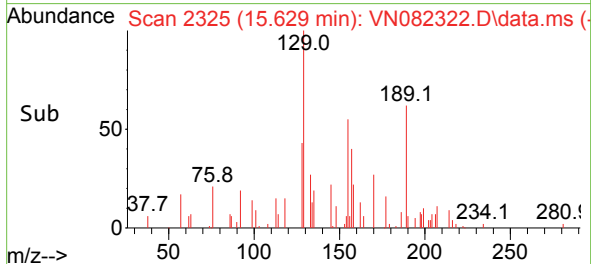
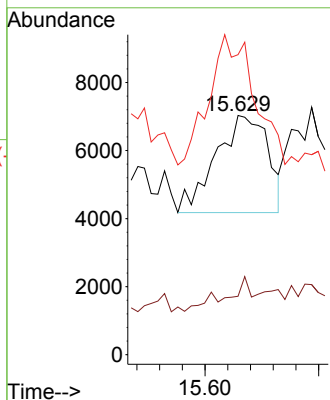
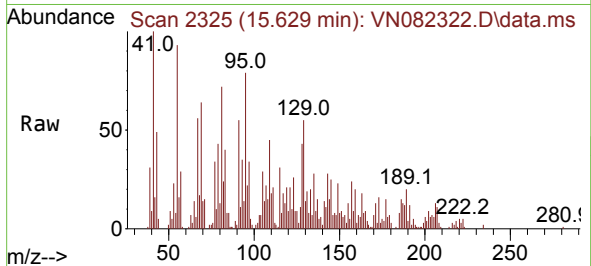




#95
Naphthalene
Concen: 0.939 ug/l
RT: 15.629 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 9070
Ion Ratio Lower Upper
128 100
127 3.5 10.1 15.1#
129 120.9 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 0.267 ug/l
RT: 15.870 min Scan# 2366
Delta R.T. 0.029 min
Lab File: VN082322.D
Acq: 23 May 2024 15:30

Tgt Ion:180 Resp: 824
Ion Ratio Lower Upper
180 100
182 0.0 46.0 137.8#
145 105.1 17.1 51.3#

