

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072423\
 Data File : VN078637.D
 Acq On : 24 Jul 2023 14:52
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Jul 25 03:14:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

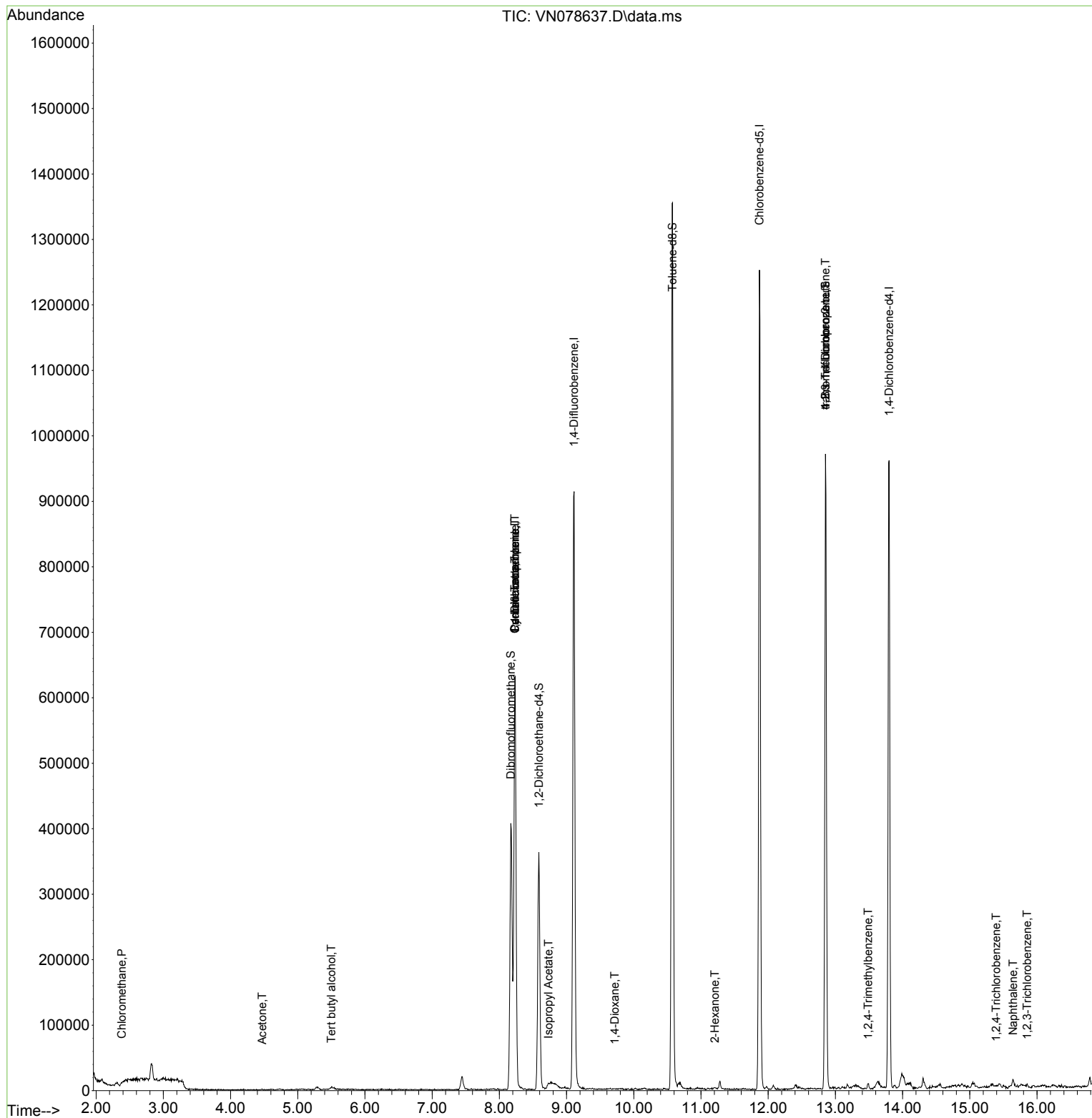
Internal Standards						
1) Pentafluorobenzene	8.236	168	476927	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	833608	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	756050	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	280245	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	291403	45.576	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.160%		
35) Dibromofluoromethane	8.171	113	291972	51.596	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	103.200%		
50) Toluene-d8	10.577	98	988266	46.230	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.460%		
62) 4-Bromofluorobenzene	12.853	95	337546	51.263	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	102.520%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	1709	0.269	ug/l #	42
5) Bromomethane	2.977	94	3432	Below Cal	#	69
6) Chloroethane	3.054	64	451	Below Cal	#	78
11) Tert butyl alcohol	5.500	59	3051	3.095	ug/l #	72
16) Acetone	4.471	43	986	0.495	ug/l #	84
20) Methylene Chloride	5.277	84	1309	Below Cal	#	67
31) Cyclohexane	8.230	56	9369	1.084	ug/l #	13
36) 1,1-Dichloropropene	8.230	75	36648	4.485	ug/l #	48
38) Carbon Tetrachloride	8.230	117	48721	5.486	ug/l #	15
43) Isopropyl Acetate	8.730	43	6914	0.617	ug/l #	49
49) 1,4-Dioxane	9.718	88	76	0.671	ug/l #	1
59) 2-Hexanone	11.206	43	1281	0.270	ug/l	71
75) 1,1,2,2-Tetrachloroethane	12.947	83	404	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	173327	25.588	ug/l #	1
77) Bromobenzene	12.982	156	340	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	173327	67.240	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.488	105	5002	0.248	ug/l	94
90) Hexachloroethane	14.323	117	333	Below Cal	#	44
92) 1,2-Dibromo-3-Chloropr...	14.835	75	185	Below Cal		66
93) 1,2,4-Trichlorobenzene	15.394	180	939	0.292	ug/l #	71
94) Hexachlorobutadiene	15.500	225	794	Below Cal	#	38
95) Naphthalene	15.647	128	10059	0.916	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.853	180	1072	0.290	ug/l #	88

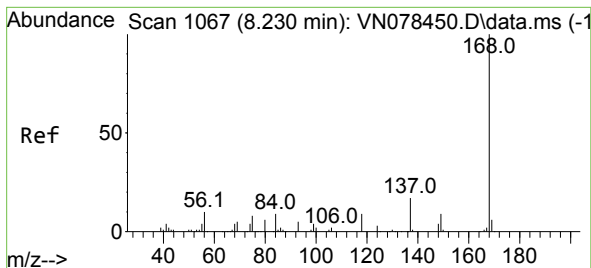
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078637.D

Acq: 24 Jul 2023 14:52

Instrument :

MSVOA_N

ClientSampleId :

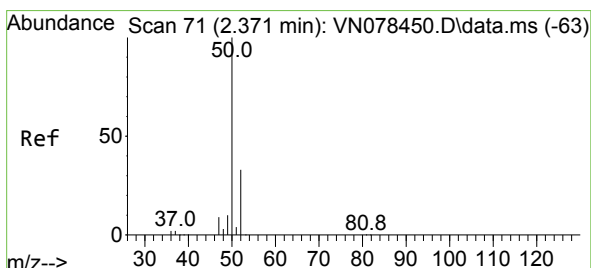
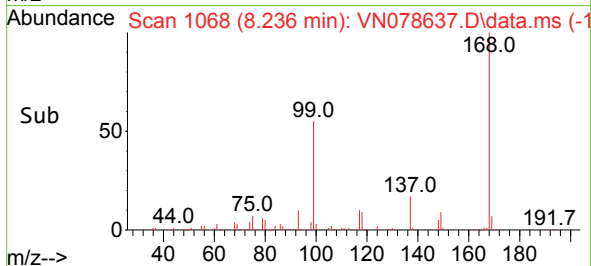
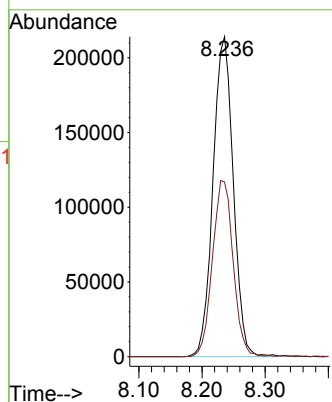
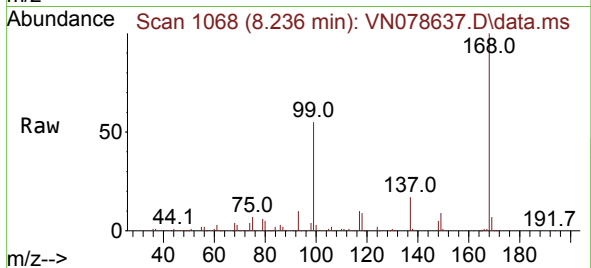
IBLK

Tgt Ion:168 Resp: 476927

Ion Ratio Lower Upper

168 100

99 54.6 53.0 79.6



#3

Chloromethane

Concen: 0.269 ug/l

RT: 2.383 min Scan# 73

Delta R.T. 0.012 min

Lab File: VN078637.D

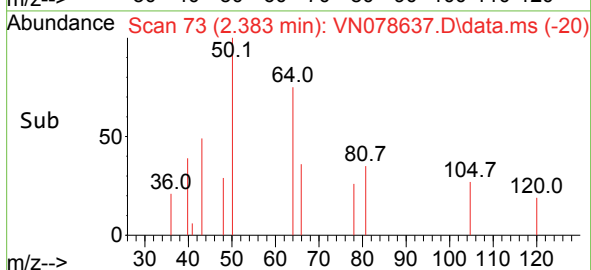
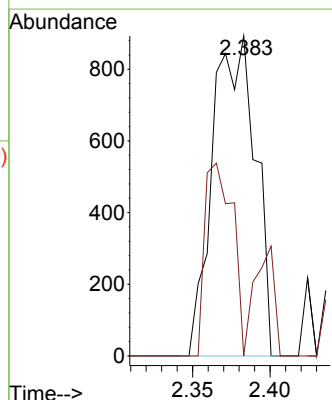
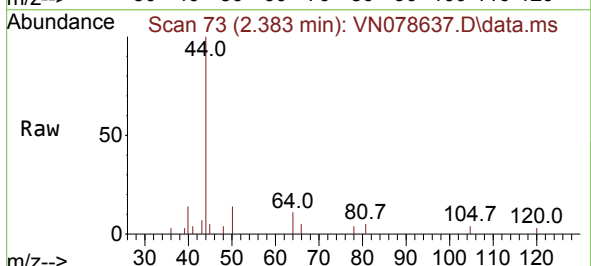
Acq: 24 Jul 2023 14:52

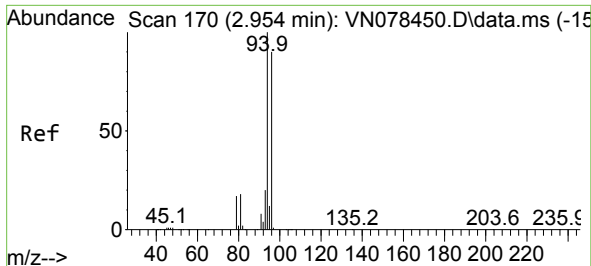
Tgt Ion: 50 Resp: 1709

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#

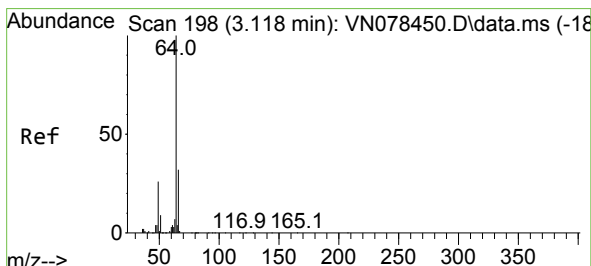
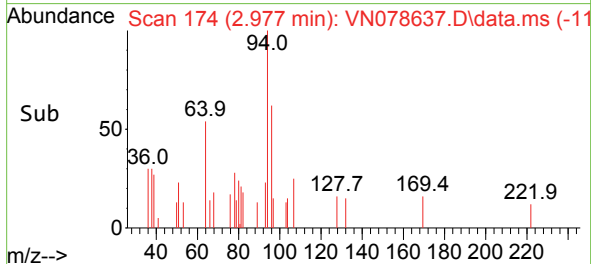
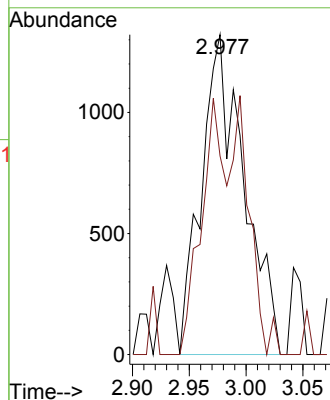
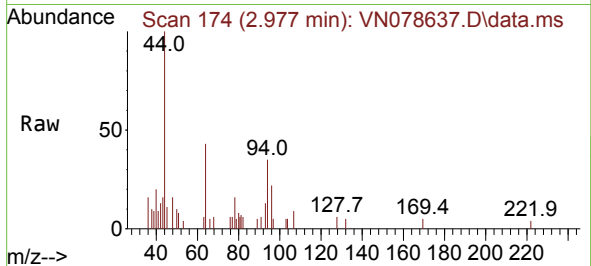




#5
Bromomethane
Concen: Below Cal
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

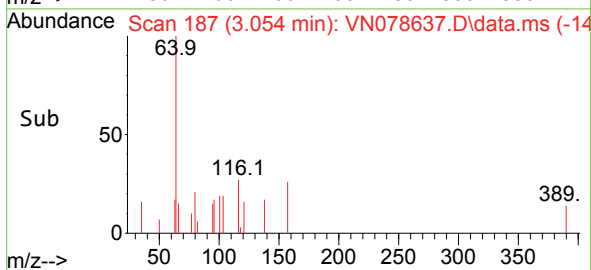
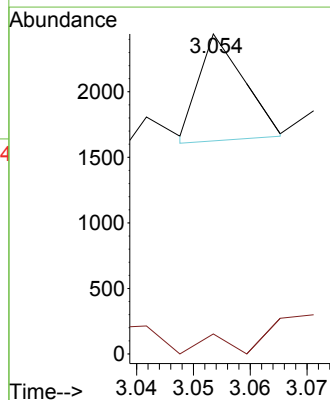
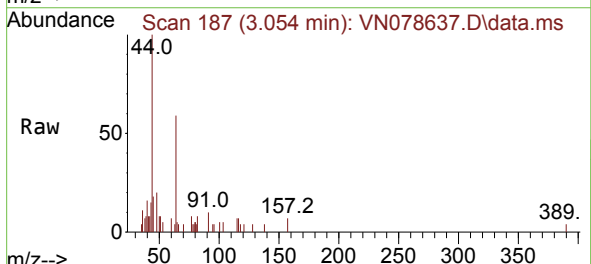
Instrument :
MSVOA_N
ClientSampleId :
IBLK

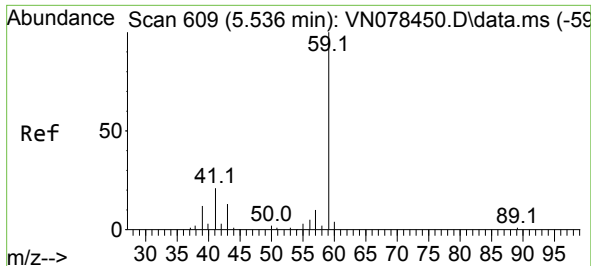
Tgt Ion: 94 Resp: 3432
Ion Ratio Lower Upper
94 100
96 62.1 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.054 min Scan# 187
Delta R.T. -0.064 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

Tgt Ion: 64 Resp: 451
Ion Ratio Lower Upper
64 100
66 19.6 25.4 38.2#

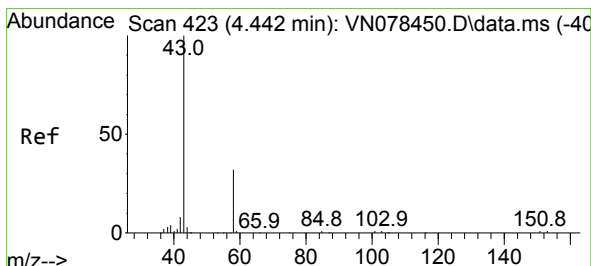
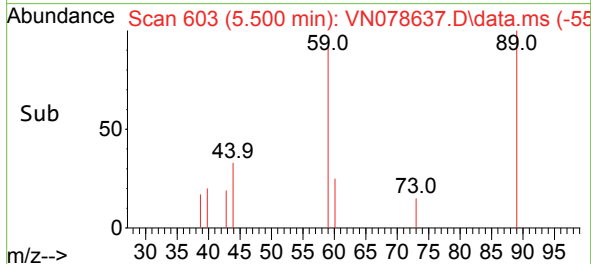
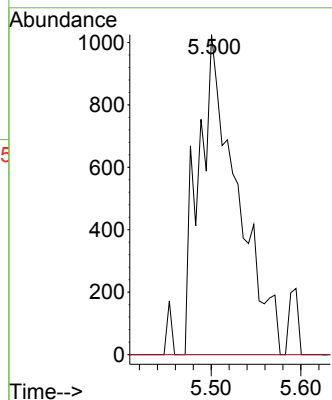
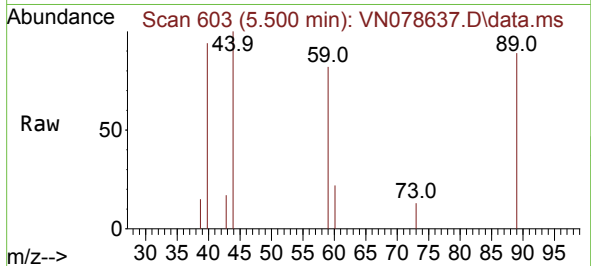




#11
Tert butyl alcohol
Concen: 3.095 ug/l
RT: 5.500 min Scan# 609
Delta R.T. -0.036 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

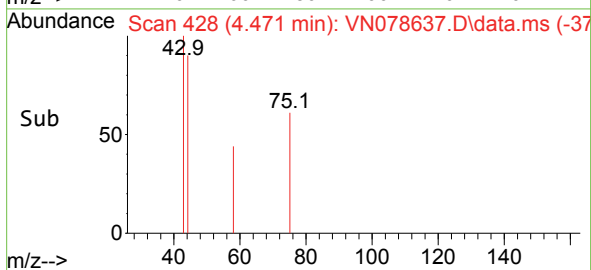
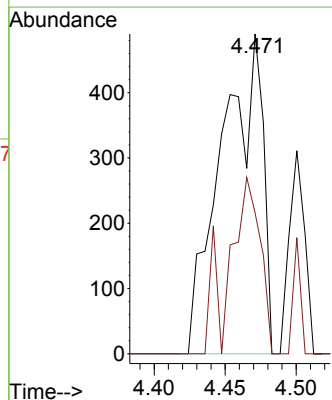
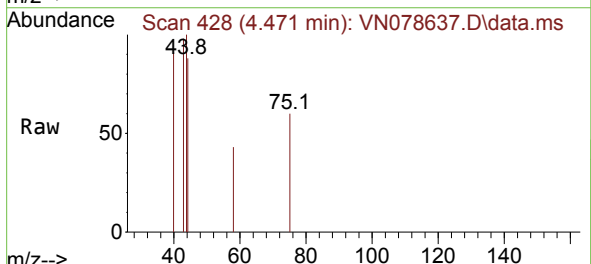
Instrument :
MSVOA_N
ClientSampleId :
IBLK

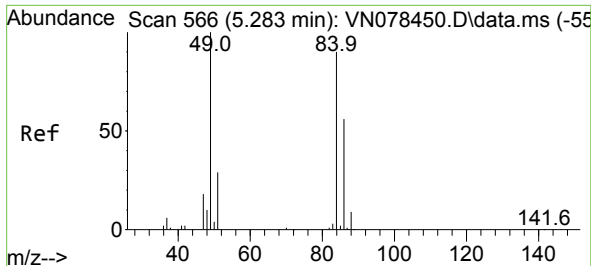
Tgt Ion: 59 Resp: 3051
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 0.495 ug/l
RT: 4.471 min Scan# 428
Delta R.T. 0.029 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

Tgt Ion: 43 Resp: 986
Ion Ratio Lower Upper
43 100
58 44.1 28.0 42.0#

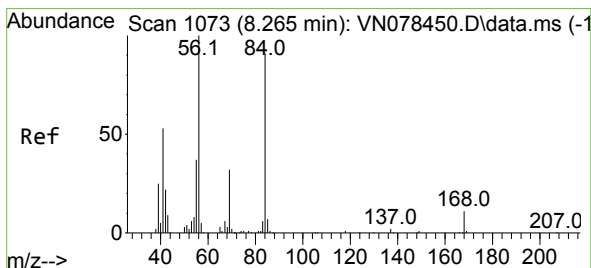
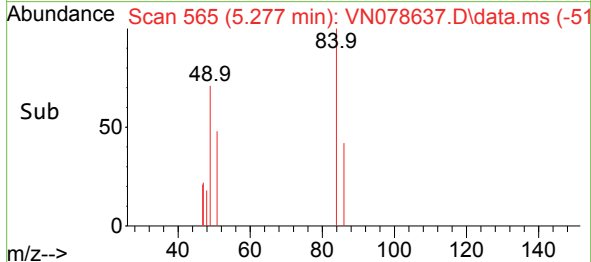
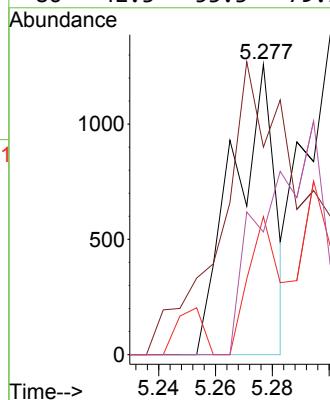
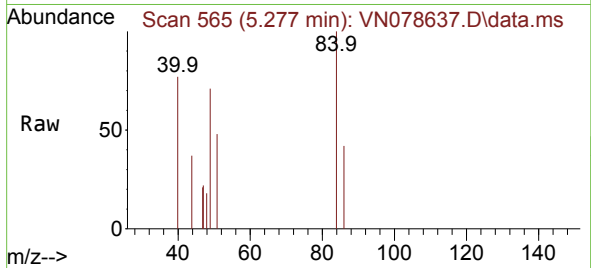




#20
Methylene Chloride
Concen: Below Cal
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

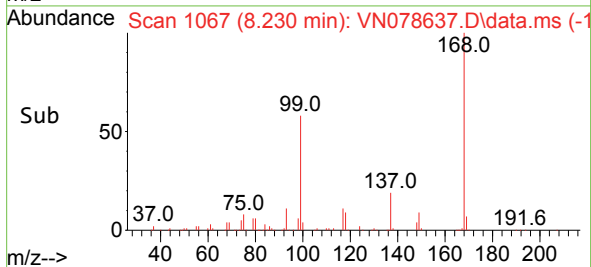
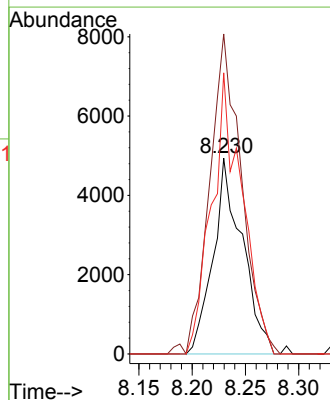
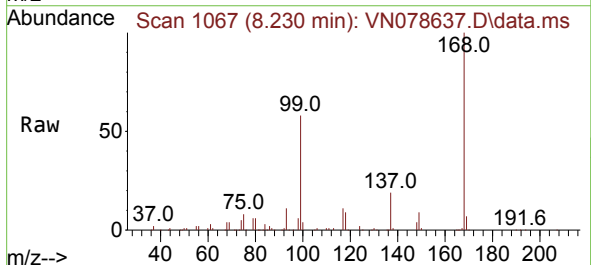
Instrument :
MSVOA_N
ClientSampleId :
IBLK

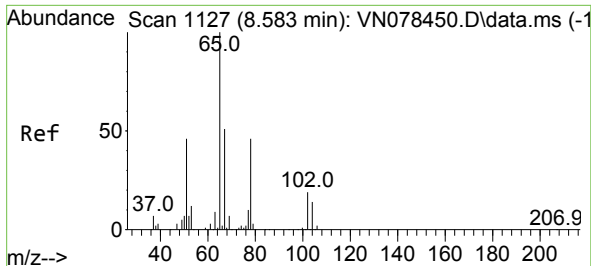
Tgt Ion:	84	Resp:	1309
Ion	Ratio	Lower	Upper
84	100		
49	55.6	79.7	119.5#
51	34.3	25.2	37.8
86	42.3	53.3	79.9#



#31
Cyclohexane
Concen: 1.084 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

Tgt Ion:	56	Resp:	9369
Ion	Ratio	Lower	Upper
56	100		
69	163.4	26.8	40.2#
84	143.5	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 45.576 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078637.D

Acq: 24 Jul 2023 14:52

Instrument :

MSVOA_N

ClientSampleId :

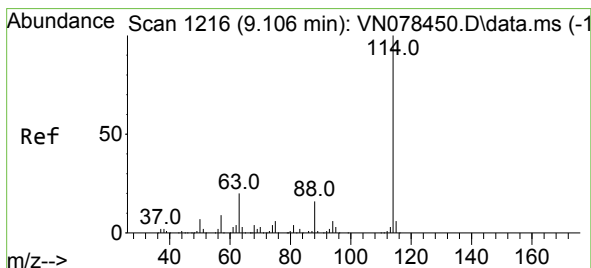
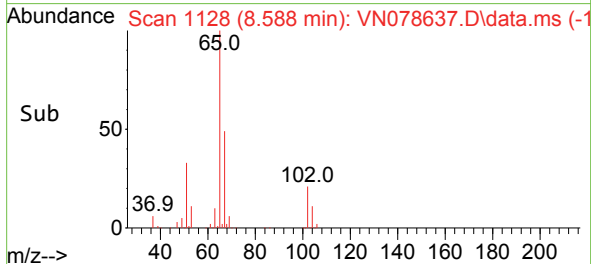
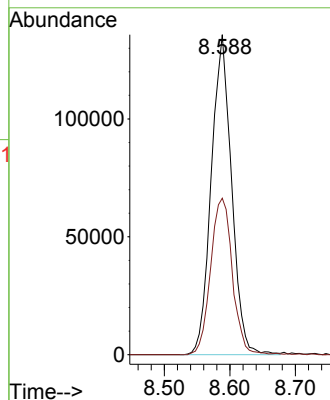
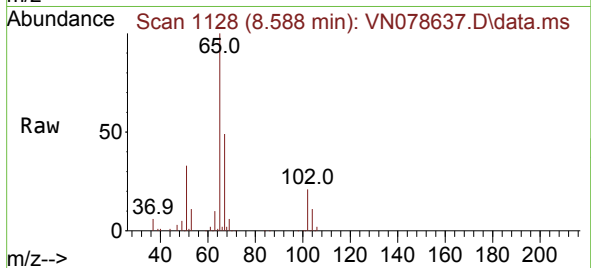
IBLK

Tgt Ion: 65 Resp: 291403

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078637.D

Acq: 24 Jul 2023 14:52

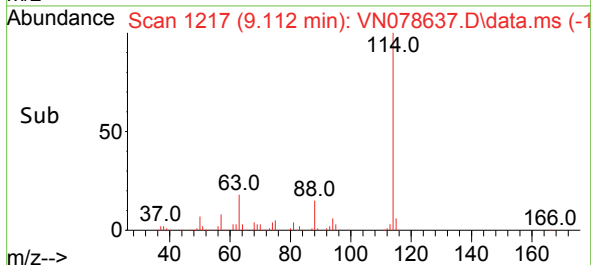
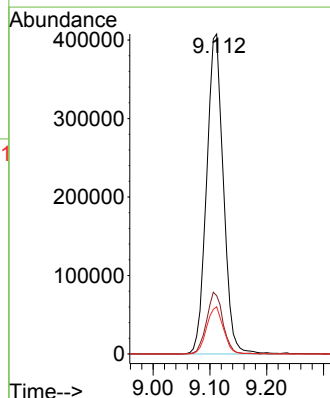
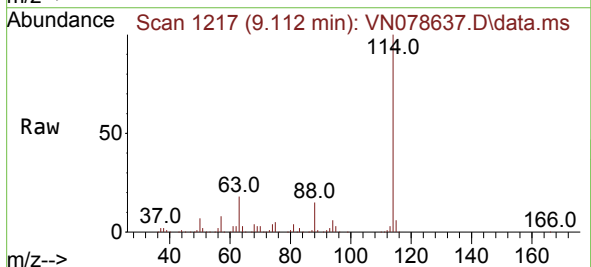
Tgt Ion: 114 Resp: 833608

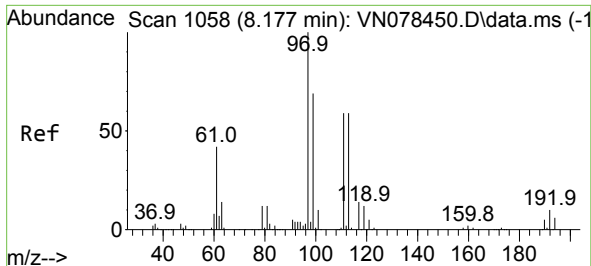
Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.4

88 14.7 0.0 30.6

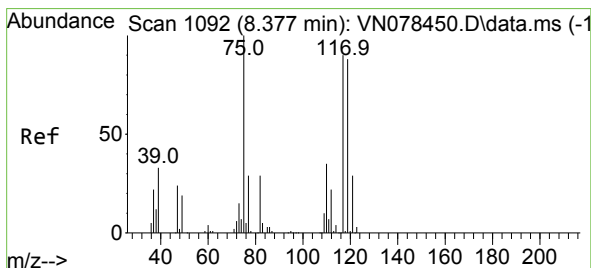
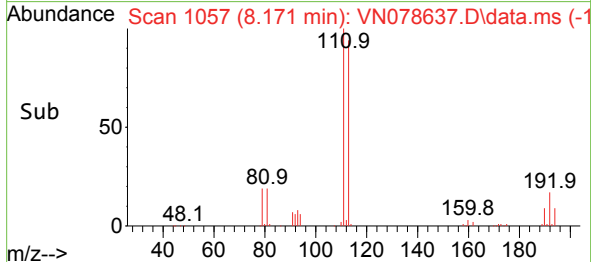
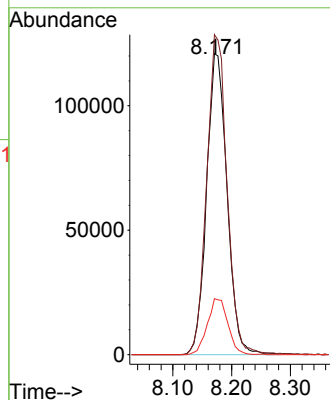
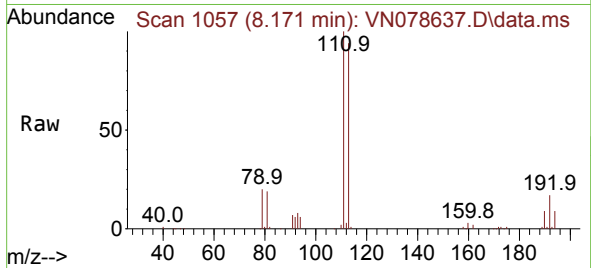




#35
Dibromofluoromethane
Concen: 51.596 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

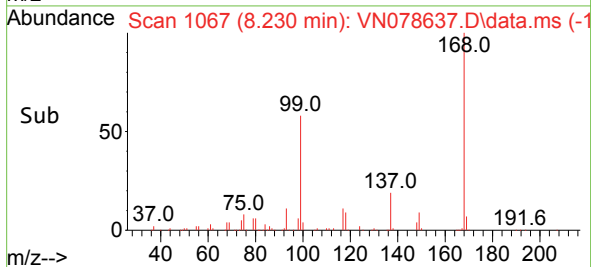
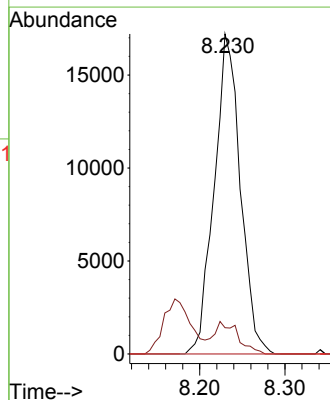
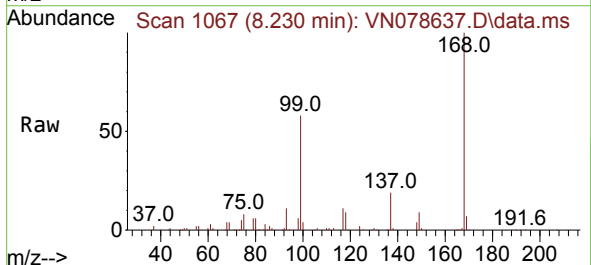
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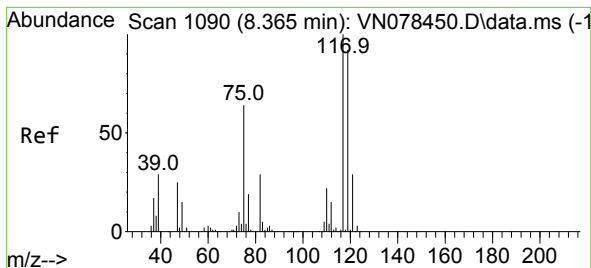
Tgt Ion:113 Resp: 291972
Ion Ratio Lower Upper
113 100
111 106.1 82.6 123.8
192 18.7 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.485 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

Tgt Ion: 75 Resp: 36648
Ion Ratio Lower Upper
75 100
110 9.5 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.486 ug/l

RT: 8.230 min Scan# 1105

Delta R.T. -0.135 min

Lab File: VN078637.D

Acq: 24 Jul 2023 14:52

Instrument :

MSVOA_N

ClientSampleId :

IBLK

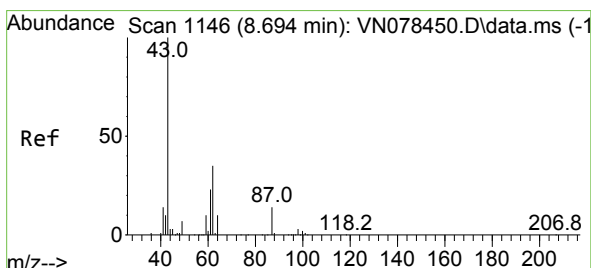
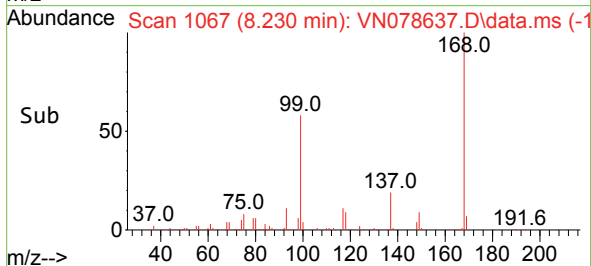
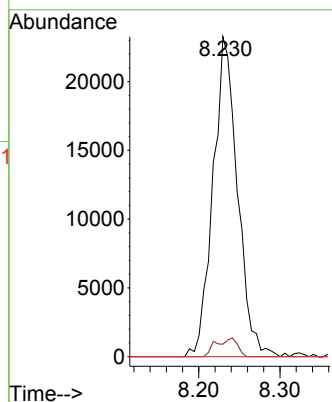
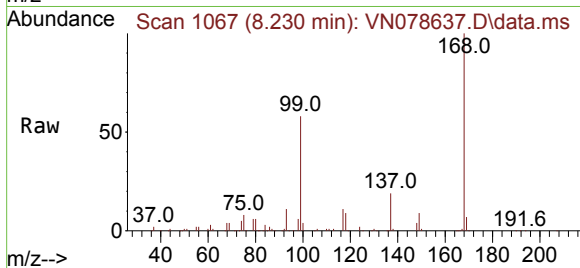
Tgt Ion:117 Resp: 48721

Ion Ratio Lower Upper

117 100

119 3.9 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 0.617 ug/l

RT: 8.730 min Scan# 1152

Delta R.T. 0.036 min

Lab File: VN078637.D

Acq: 24 Jul 2023 14:52

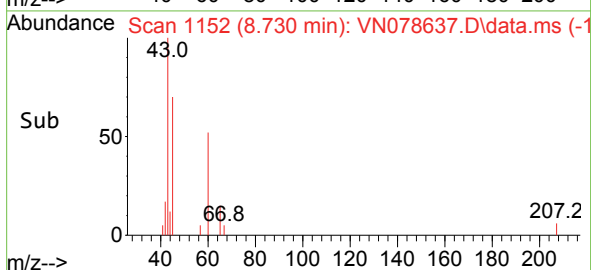
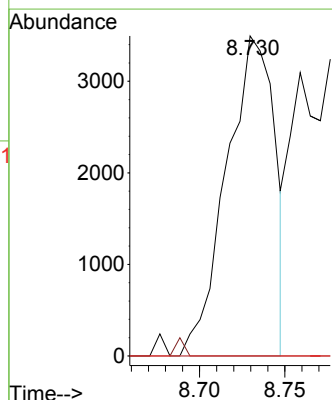
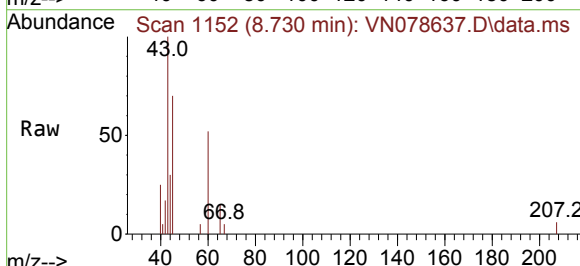
Tgt Ion: 43 Resp: 6914

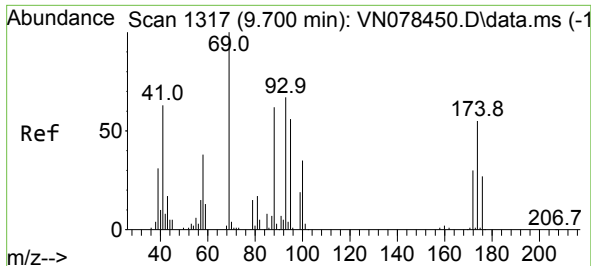
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#





#49

1,4-Dioxane

Concen: 0.671 ug/l

RT: 9.718 min Scan# 11

Delta R.T. 0.018 min

Lab File: VN078637.D

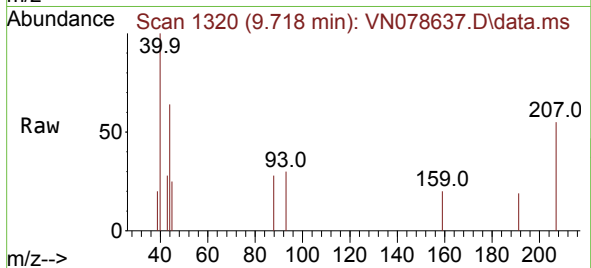
Acq: 24 Jul 2023 14:52

Instrument :

MSVOA_N

ClientSampleId :

IBLK



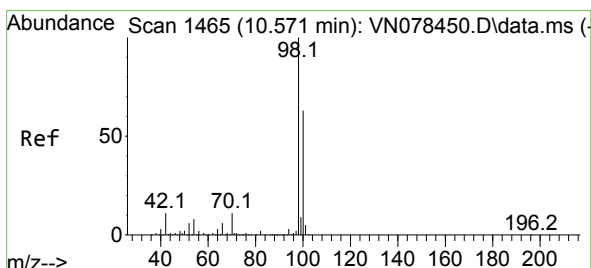
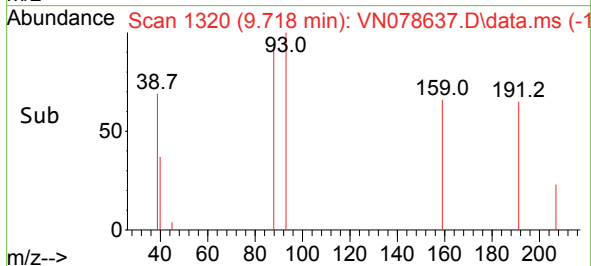
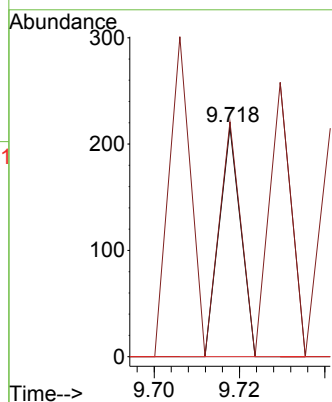
Tgt Ion: 88 Resp: 76

Ion Ratio Lower Upper

88 100

43 139.5 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 46.230 ug/l

RT: 10.577 min Scan# 1466

Delta R.T. 0.006 min

Lab File: VN078637.D

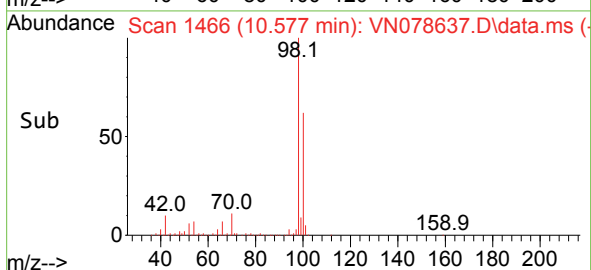
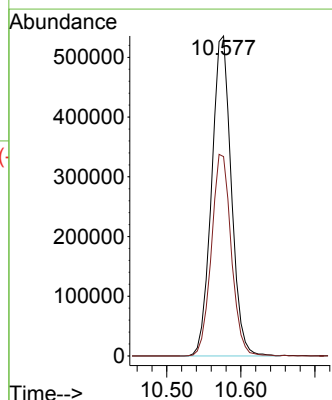
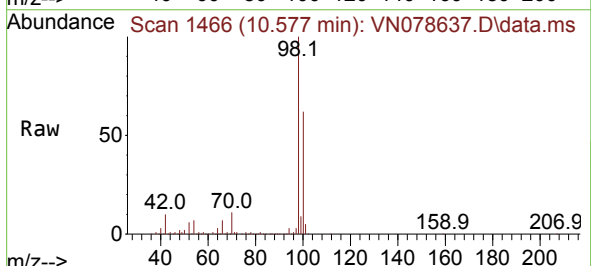
Acq: 24 Jul 2023 14:52

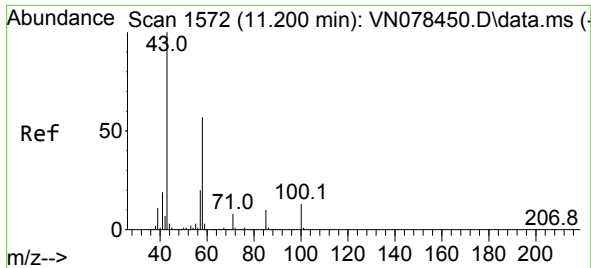
Tgt Ion: 98 Resp: 988266

Ion Ratio Lower Upper

98 100

100 63.5 52.0 78.0

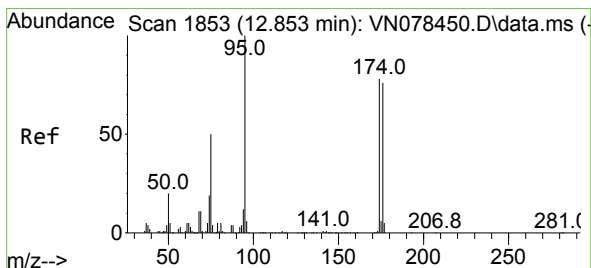
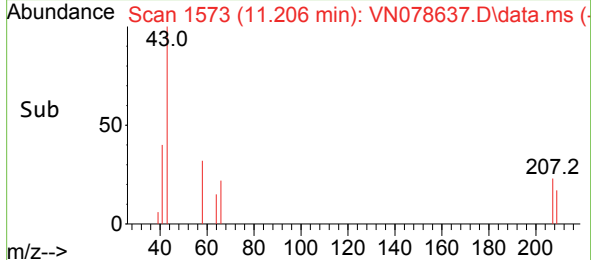
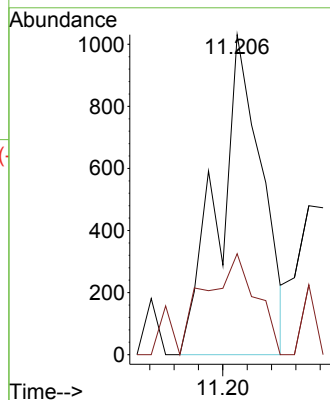
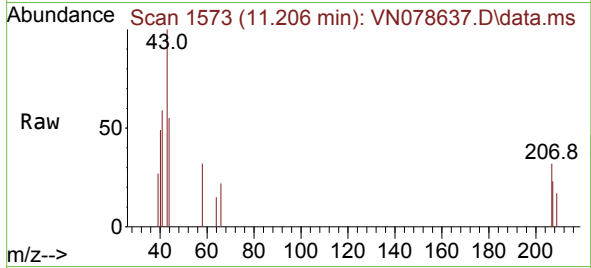




#59
2-Hexanone
Concen: 0.270 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

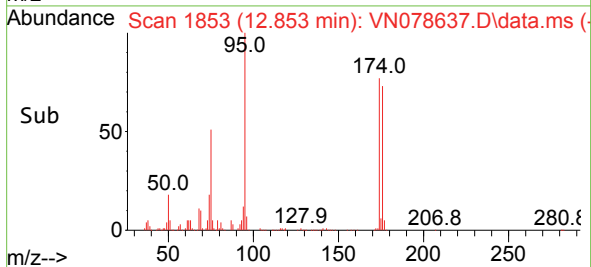
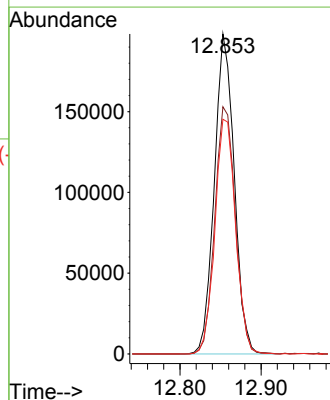
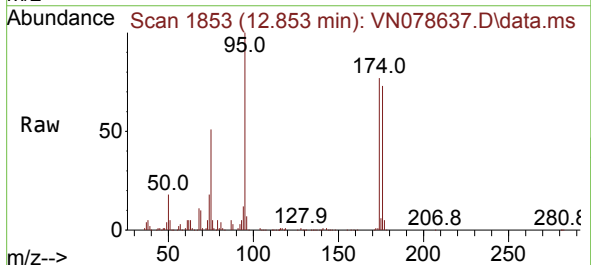
Instrument :
MSVOA_N
ClientSampleId :
IBLK

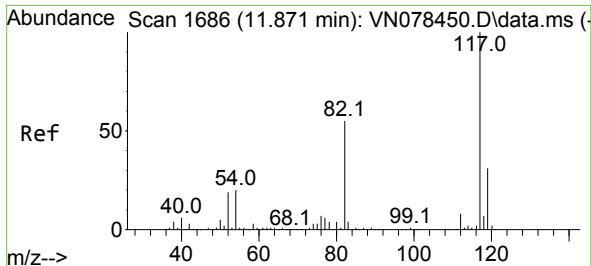
Tgt Ion: 43 Resp: 1281
Ion Ratio Lower Upper
43 100
58 40.7 31.7 95.1



#62
4-Bromofluorobenzene
Concen: 51.263 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

Tgt Ion: 95 Resp: 337546
Ion Ratio Lower Upper
95 100
174 79.8 0.0 143.8
176 76.4 0.0 135.8

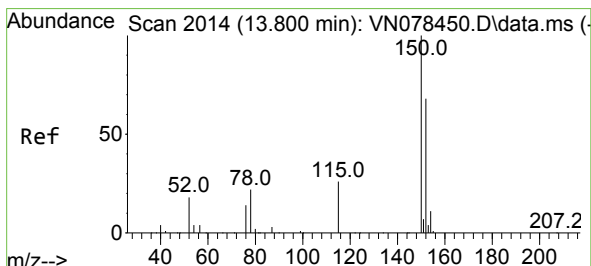
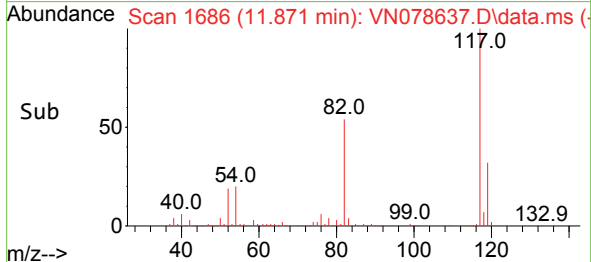
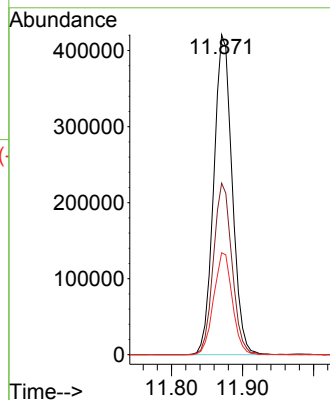
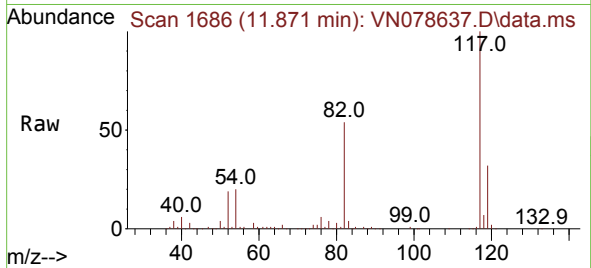




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

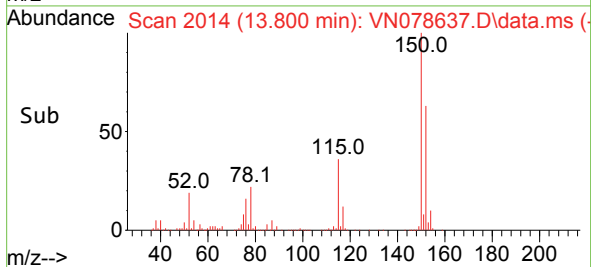
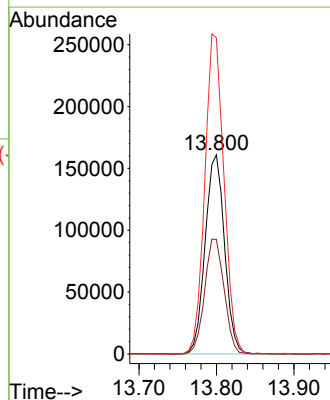
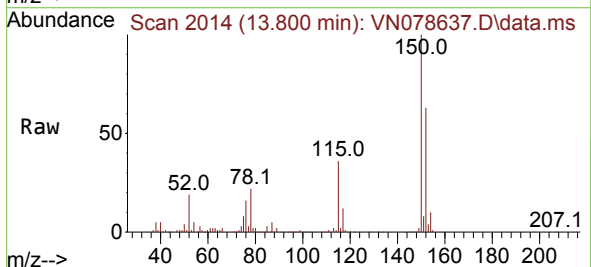
Instrument :
MSVOA_N
ClientSampleId :
IBLK

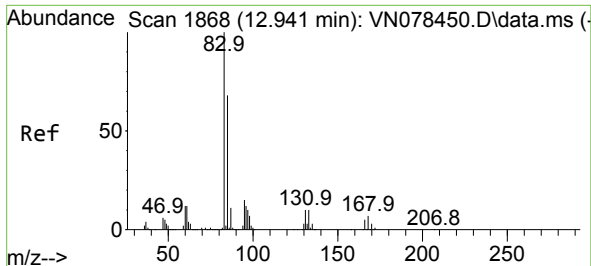
Tgt Ion:117 Resp: 756050
Ion Ratio Lower Upper
117 100
82 53.6 44.0 66.0
119 31.9 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

Tgt Ion:152 Resp: 280245
Ion Ratio Lower Upper
152 100
115 57.9 32.3 96.8
150 158.2 0.0 355.8

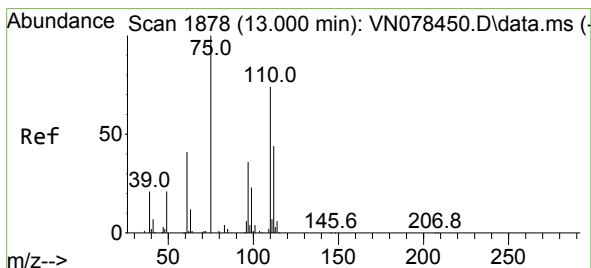
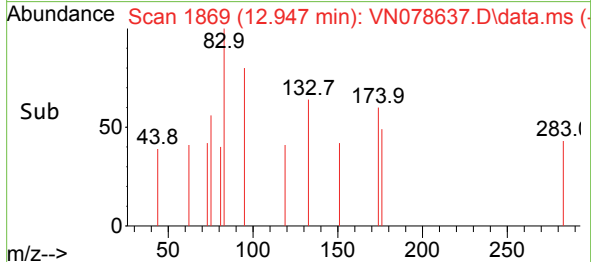
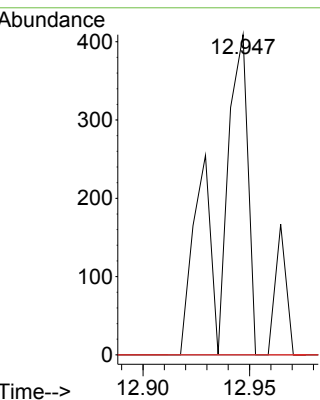
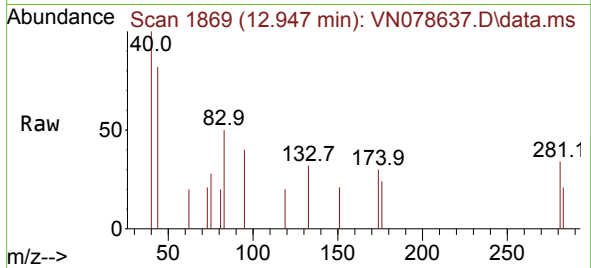




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.947 min Scan# 1869
Delta R.T. 0.006 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

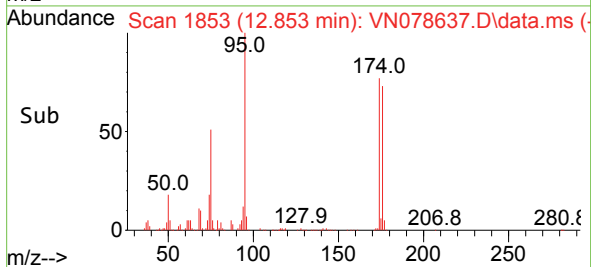
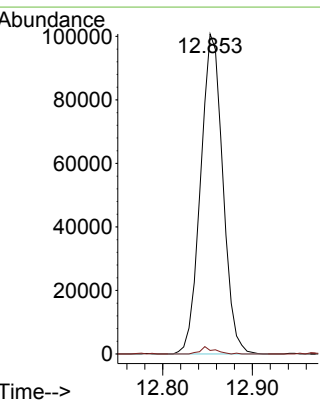
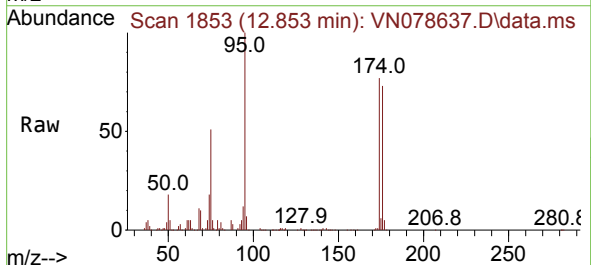
Instrument :
MSVOA_N
ClientSampleId :
IBLK

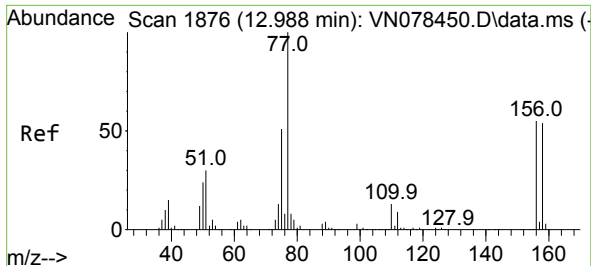
Tgt Ion: 83 Resp: 404
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 25.588 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

Tgt Ion: 75 Resp: 173327
Ion Ratio Lower Upper
75 100
77 1.5 84.5 253.5#

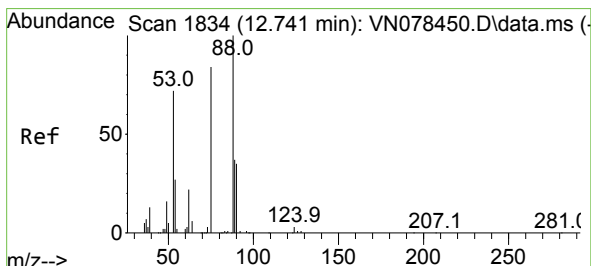
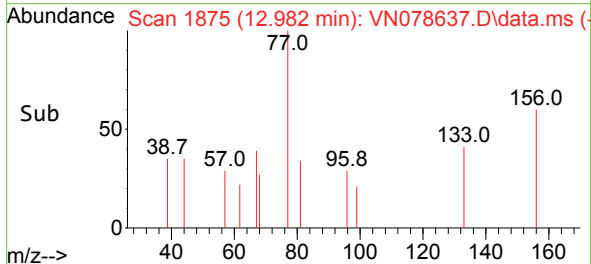
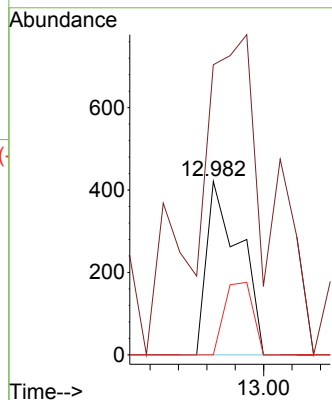
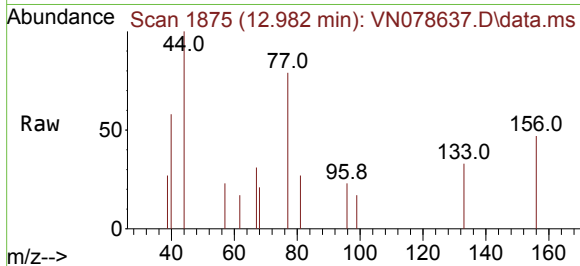




#77
Bromobenzene
Concen: Below Cal
RT: 12.982 min Scan# 1875
Delta R.T. -0.006 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

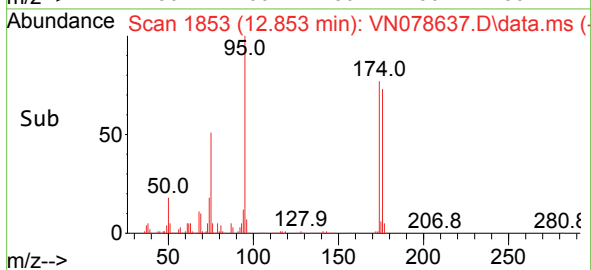
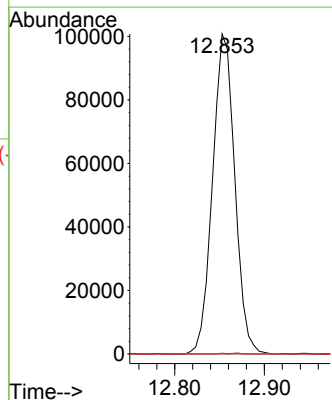
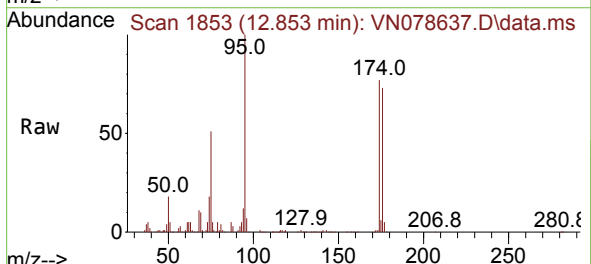
Instrument :
MSVOA_N
ClientSampleId :
IBLK

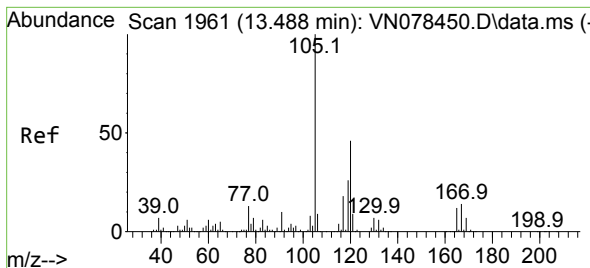
Tgt Ion:156 Resp: 340
Ion Ratio Lower Upper
156 100
77 452.6 107.7 323.3#
158 35.9 48.4 145.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.240 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

Tgt Ion: 75 Resp: 173327
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.0 38.8 58.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.248 ug/l

RT: 13.488 min Scan# 1961

Delta R.T. 0.000 min

Lab File: VN078637.D

Acq: 24 Jul 2023 14:52

Instrument :

MSVOA_N

ClientSampleId :

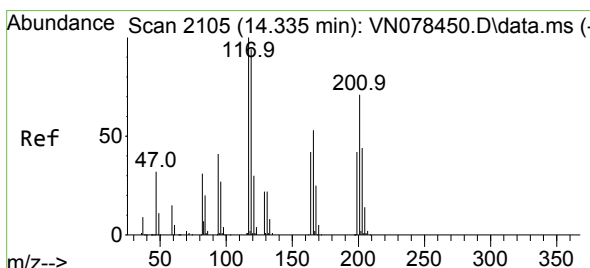
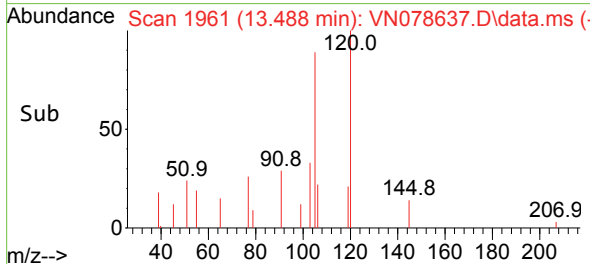
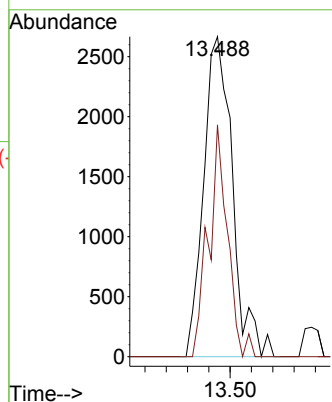
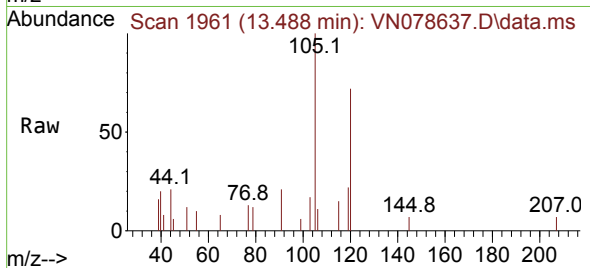
IBLK

Tgt Ion:105 Resp: 5002

Ion Ratio Lower Upper

105 100

120 47.7 22.0 66.0



#90

Hexachloroethane

Concen: Below Cal

RT: 14.323 min Scan# 2103

Delta R.T. -0.012 min

Lab File: VN078637.D

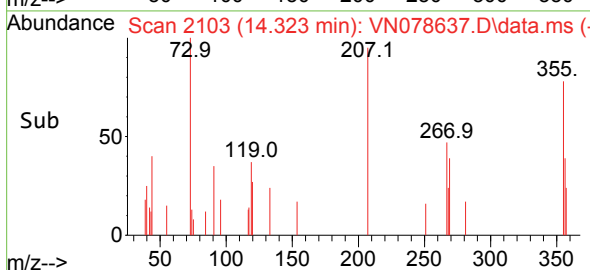
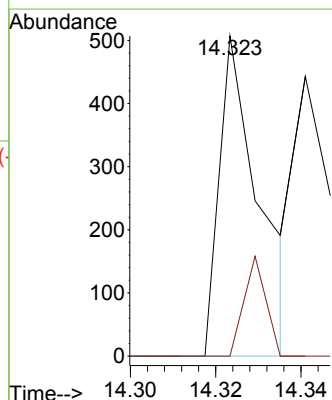
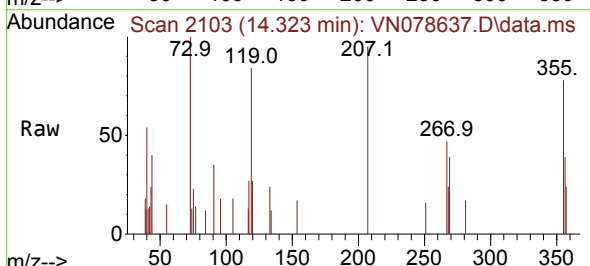
Acq: 24 Jul 2023 14:52

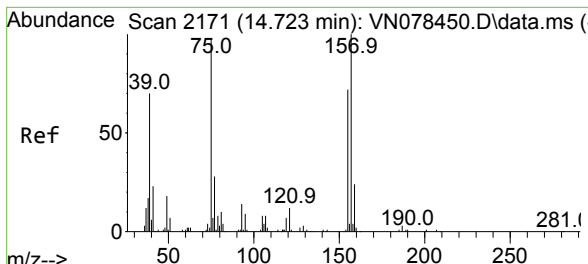
Tgt Ion:117 Resp: 333

Ion Ratio Lower Upper

117 100

201 16.8 29.3 88.0#

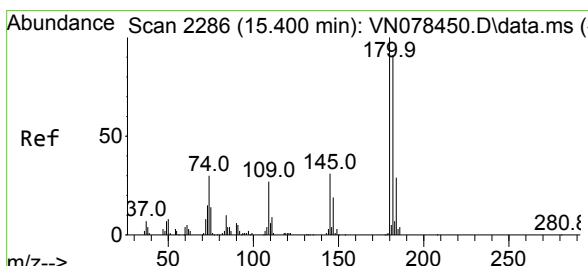
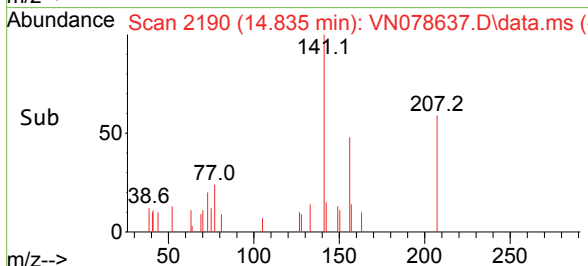
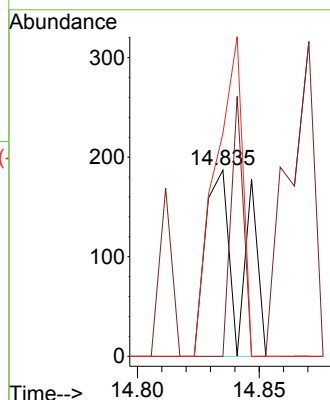
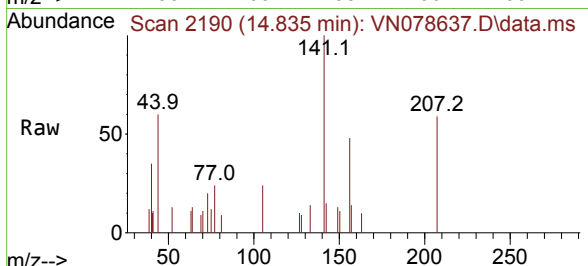




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.835 min Scan# 2171
 Delta R.T. 0.112 min
 Lab File: VN078637.D
 Acq: 24 Jul 2023 14:52

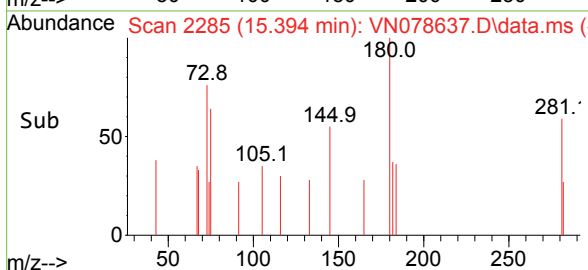
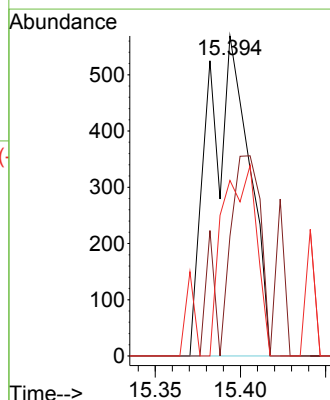
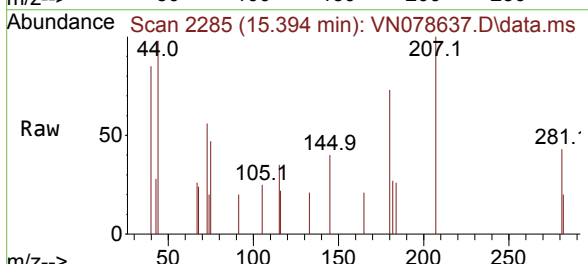
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

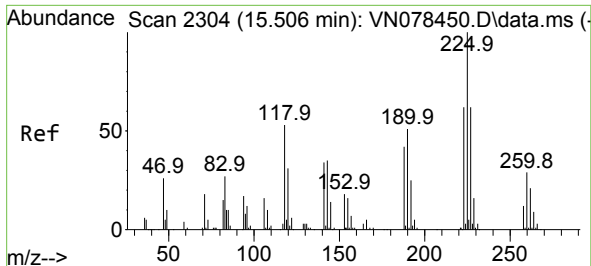
Tgt Ion: 75 Resp: 185
 Ion Ratio Lower Upper
 75 100
 155 49.7 39.1 117.2
 157 135.1 50.3 150.9



#93
 1,2,4-Trichlorobenzene
 Concen: 0.292 ug/l
 RT: 15.394 min Scan# 2285
 Delta R.T. -0.006 min
 Lab File: VN078637.D
 Acq: 24 Jul 2023 14:52

Tgt Ion: 180 Resp: 939
 Ion Ratio Lower Upper
 180 100
 182 64.1 46.1 138.2
 145 50.1 16.6 49.8#

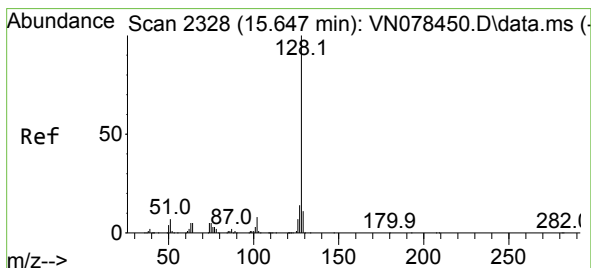
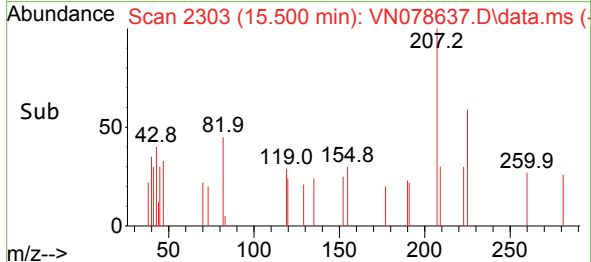
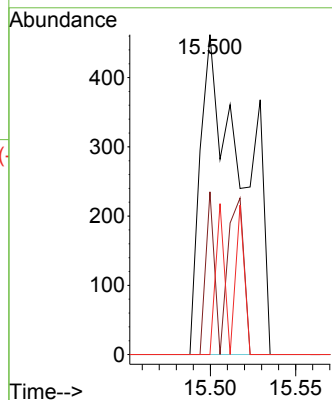
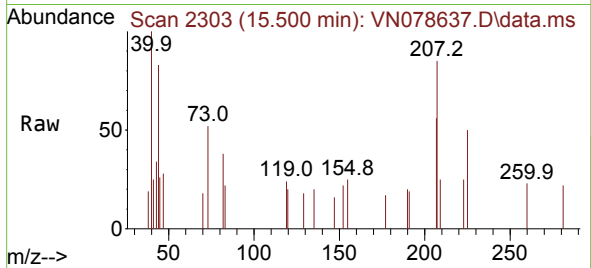




#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.500 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

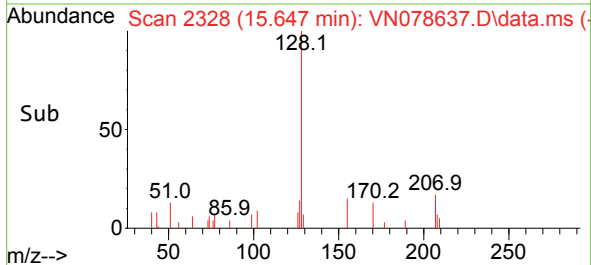
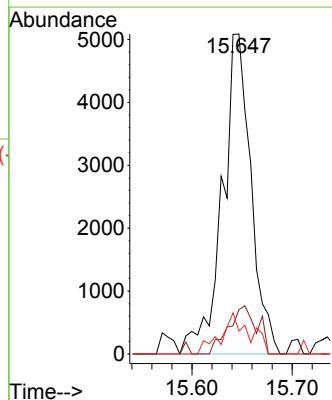
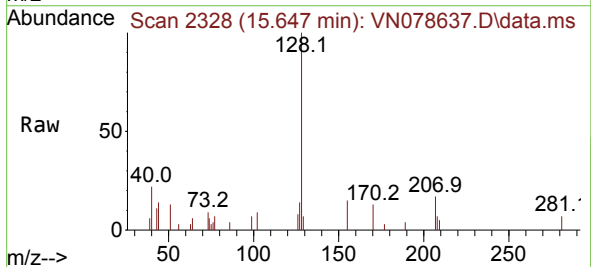
Instrument :
MSVOA_N
ClientSampleId :
IBLK

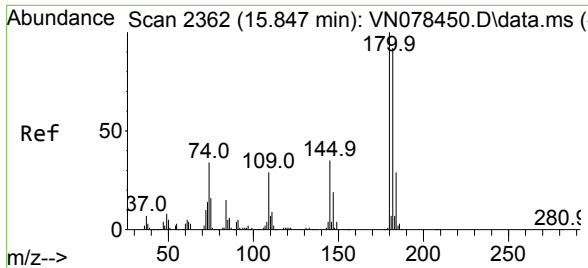
Tgt Ion:225 Resp: 794
Ion Ratio Lower Upper
225 100
223 10.5 31.3 93.8#
227 19.3 31.9 95.9#



#95
Naphthalene
Concen: 0.916 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN078637.D
Acq: 24 Jul 2023 14:52

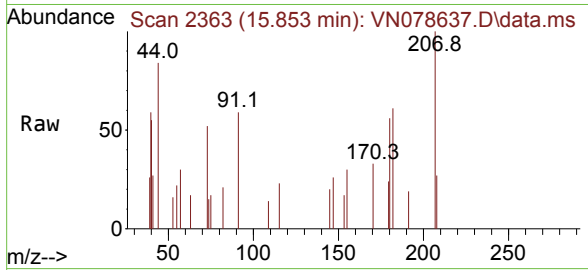
Tgt Ion:128 Resp: 10059
Ion Ratio Lower Upper
128 100
127 15.1 10.0 15.0#
129 12.7 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.290 ug/l
 RT: 15.853 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN078637.D
 Acq: 24 Jul 2023 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK



Tgt Ion:	180	Resp:	1072
Ion	Ratio	Lower	Upper
180	100		
182	93.6	46.2	138.6
145	58.8	17.5	52.6#

