

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071723\
 Data File : VN078545.D
 Acq On : 17 Jul 2023 16:02
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Jul 18 04:25:56 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	8.235	168	425097	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	726967	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	663650	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	210947	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	272510	47.818	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.640%
35) Dibromofluoromethane	8.177	113	300445	60.882	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	121.760%
50) Toluene-d8	10.576	98	847559	45.464	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	90.920%
62) 4-Bromofluorobenzene	12.859	95	275750	48.021	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	96.040%

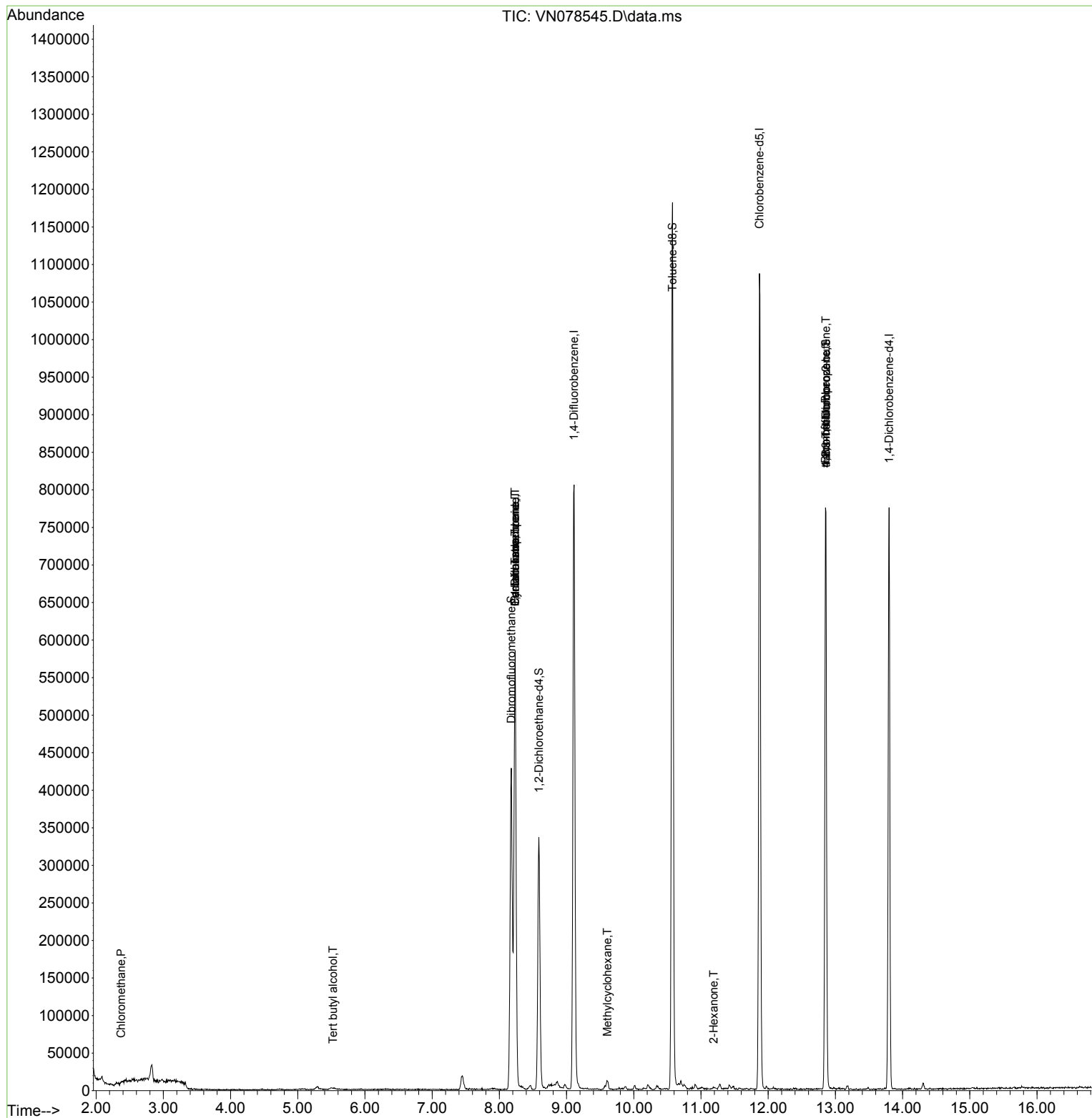
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	1483	0.262	ug/l	# 86
5) Bromomethane	2.983	94	2062	Below Cal		# 70
6) Chloroethane	3.112	64	604	Below Cal		# 43
11) Tert butyl alcohol	5.524	59	924	1.051	ug/l	# 72
20) Methylene Chloride	5.277	84	1330	Below Cal		# 78
31) Cyclohexane	8.235	56	10464	1.359	ug/l	# 22
36) 1,1-Dichloropropene	8.235	75	34600	4.856	ug/l	# 48
38) Carbon Tetrachloride	8.235	117	45309	5.851	ug/l	# 16
39) Methylcyclohexane	9.606	83	5246	0.807	ug/l	# 88
59) 2-Hexanone	11.188	43	1541	0.373	ug/l	# 55
71) Bromoform	12.853	173	1560	0.404	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.935	83	78	Below Cal		# 26
76) 1,2,3-Trichloropropane	12.859	75	146802	28.791	ug/l	# 1
77) Bromobenzene	12.976	156	157	Below Cal		# 1
81) trans-1,4-Dichloro-2-b...	12.859	75	146802	75.658	ug/l	# 15
92) 1,2-Dibromo-3-Chloropr...	14.494	75	54	Below Cal		# 4
94) Hexachlorobutadiene	15.523	225	61	Below Cal		# 35

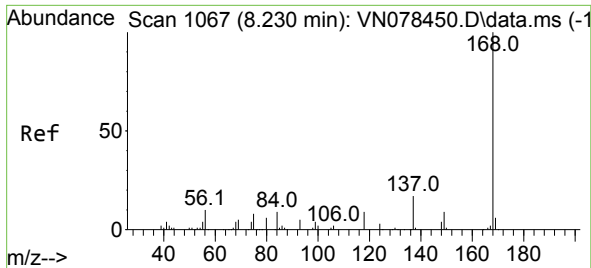
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
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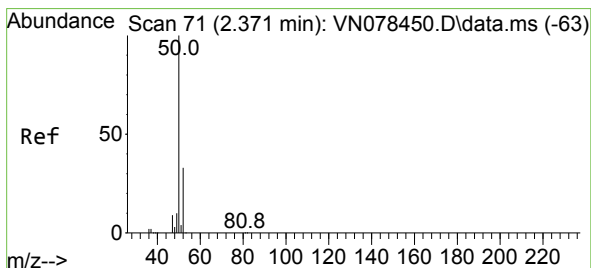
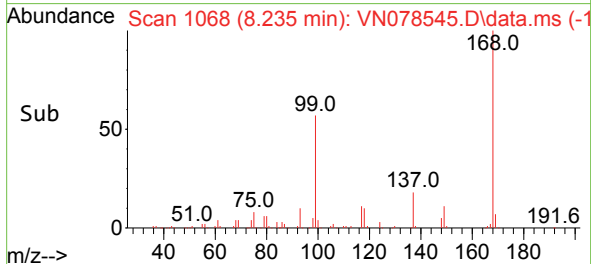
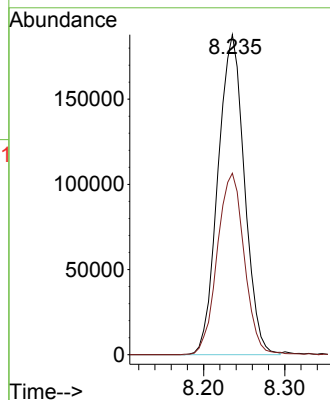
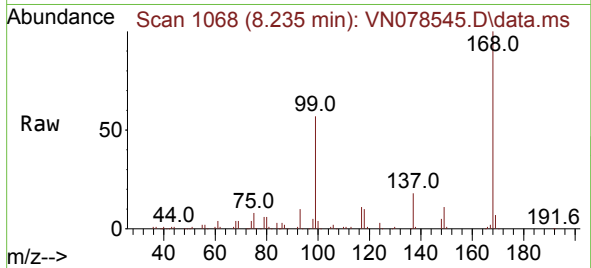




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.005 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

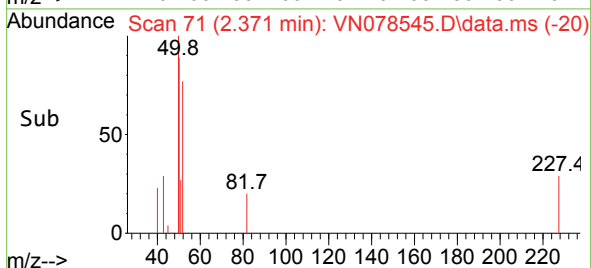
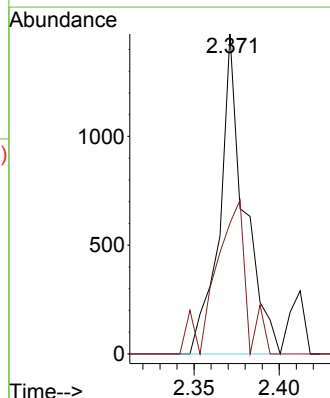
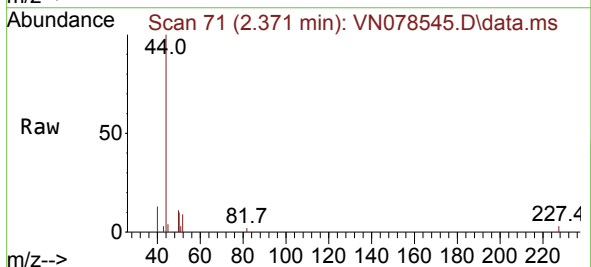
Instrument :
MSVOA_N
ClientSampleId :
IBLK

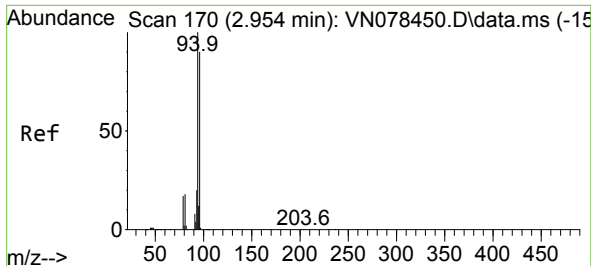
Tgt Ion:168 Resp: 425097
Ion Ratio Lower Upper
168 100
99 56.7 53.0 79.6



#3
Chloromethane
Concen: 0.262 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

Tgt Ion: 50 Resp: 1483
Ion Ratio Lower Upper
50 100
52 40.9 26.5 39.7#

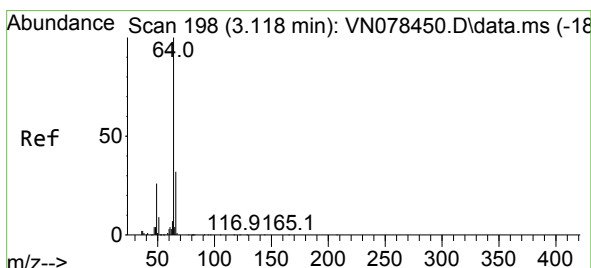
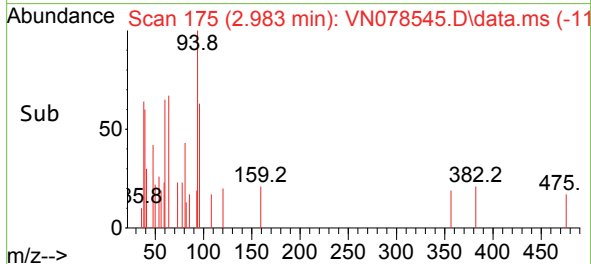
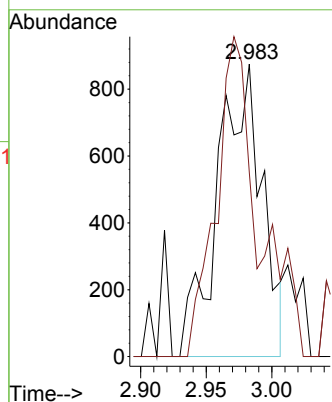
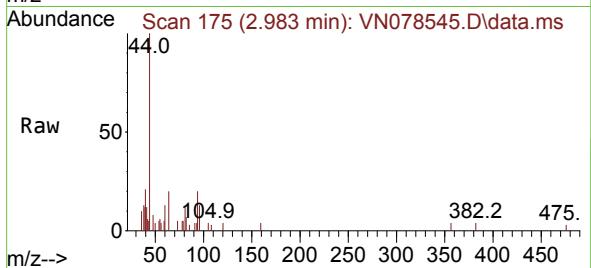




#5
Bromomethane
Concen: Below Cal
RT: 2.983 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

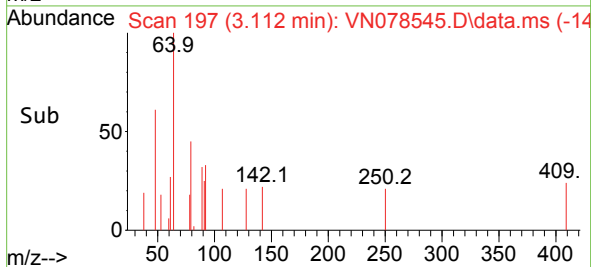
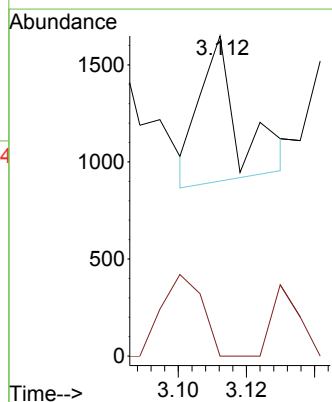
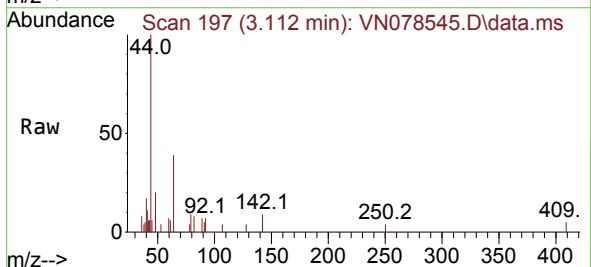
Instrument :
MSVOA_N
ClientSampleId :
IBLK

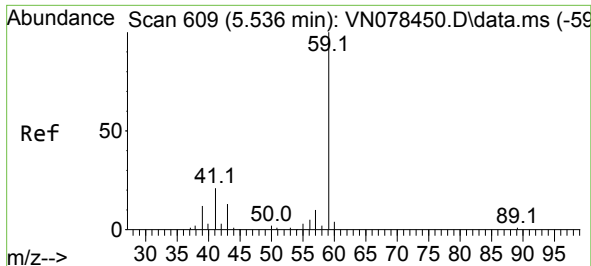
Tgt Ion: 94 Resp: 2062
Ion Ratio Lower Upper
94 100
96 62.9 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

Tgt Ion: 64 Resp: 604
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#





#11

Tert butyl alcohol

Concen: 1.051 ug/l

RT: 5.524 min Scan# 609

Delta R.T. -0.012 min

Lab File: VN078545.D

Acq: 17 Jul 2023 16:02

Instrument :

MSVOA_N

ClientSampleId :

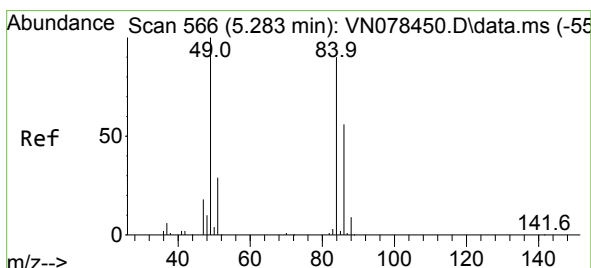
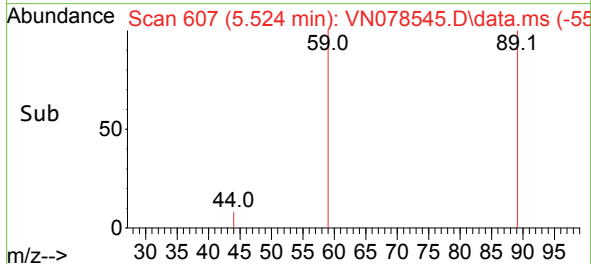
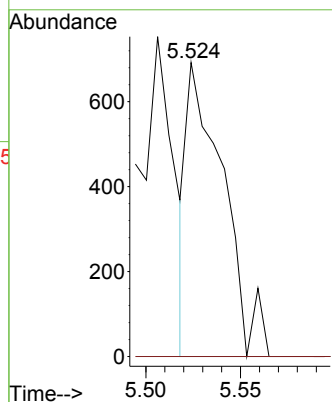
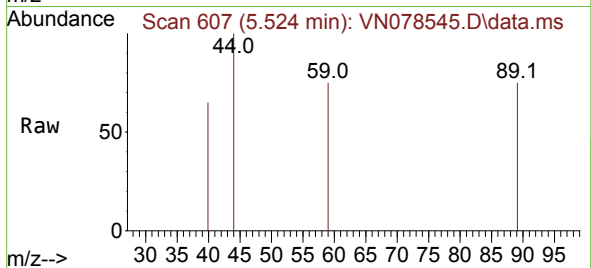
IBLK

Tgt Ion: 59 Resp: 924

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.277 min Scan# 565

Delta R.T. -0.006 min

Lab File: VN078545.D

Acq: 17 Jul 2023 16:02

Tgt Ion: 84 Resp: 1330

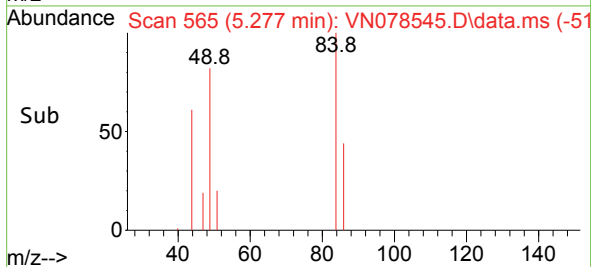
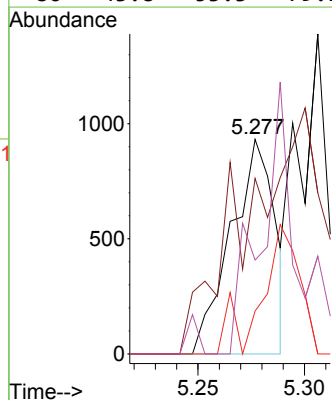
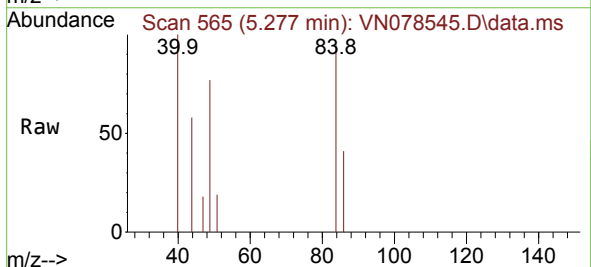
Ion Ratio Lower Upper

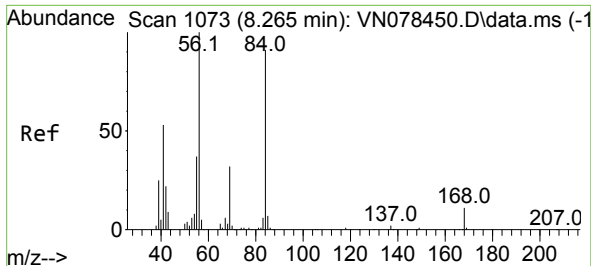
84 100

49 81.8 79.7 119.5

51 20.0 25.2 37.8#

86 43.8 53.3 79.9#

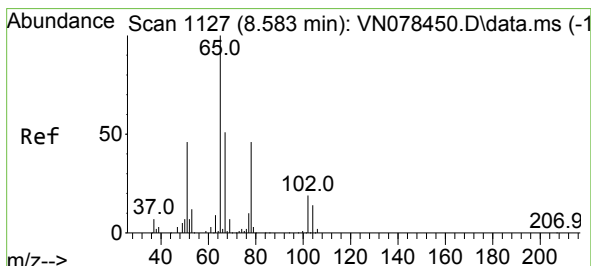
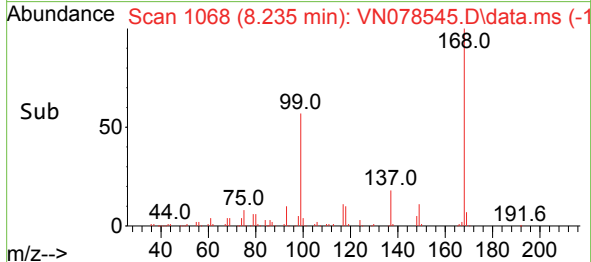
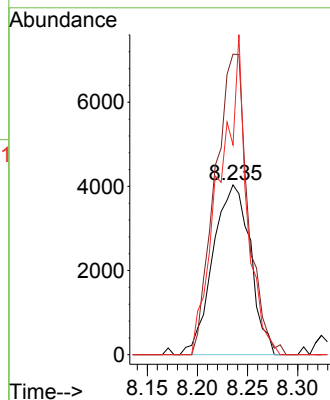
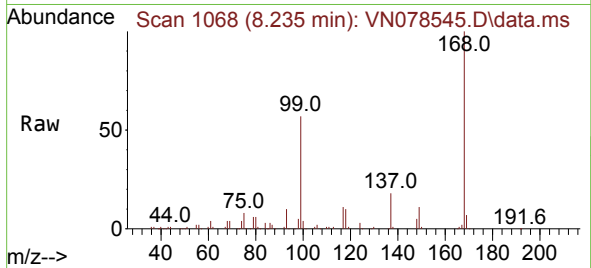




#31
Cyclohexane
Concen: 1.359 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

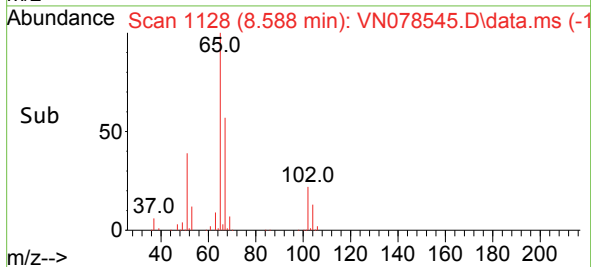
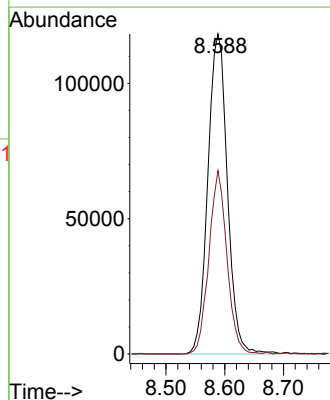
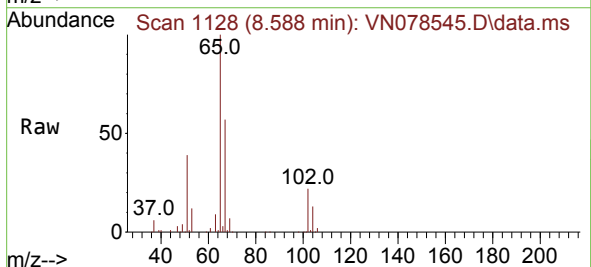
Instrument :
MSVOA_N
ClientSampleId :
IBLK

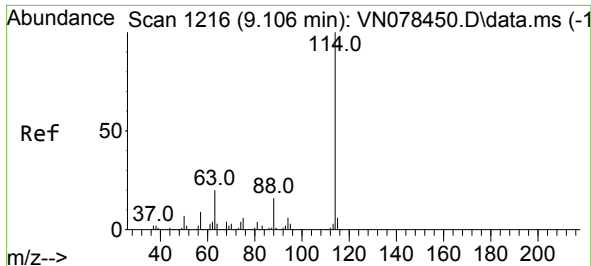
Tgt Ion: 56 Resp: 10464
Ion Ratio Lower Upper
56 100
69 177.0 26.8 40.2#
84 123.5 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 47.818 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

Tgt Ion: 65 Resp: 272510
Ion Ratio Lower Upper
65 100
67 53.0 0.0 106.6

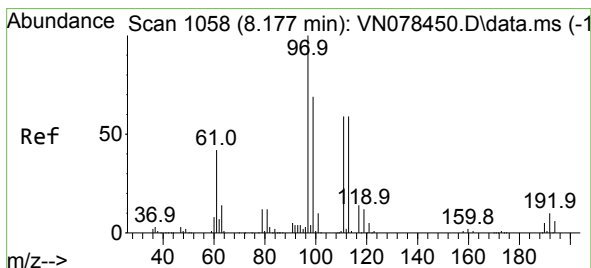
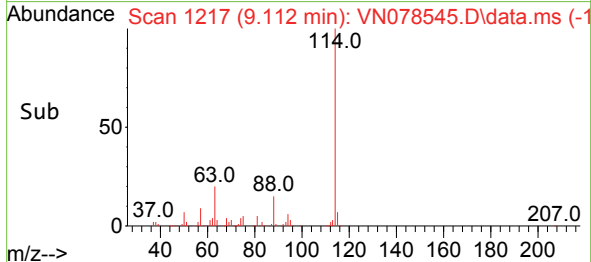
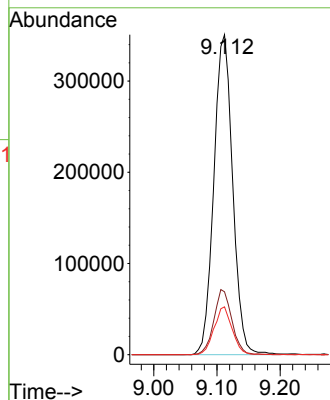
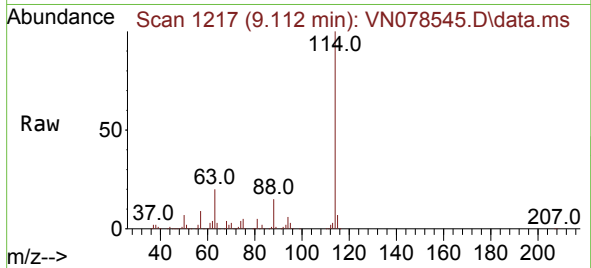




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 114
Delta R.T. 0.006 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

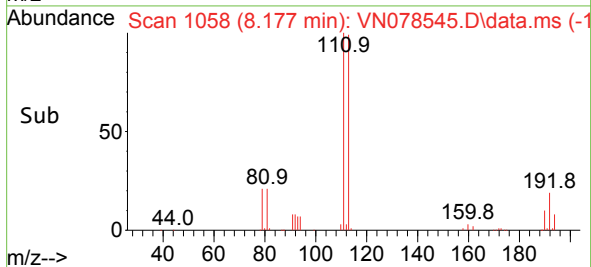
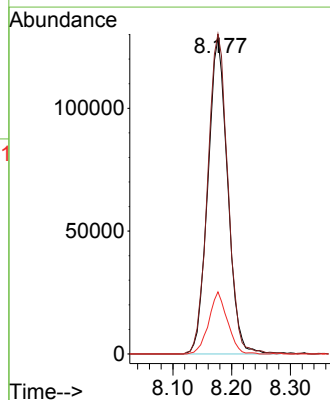
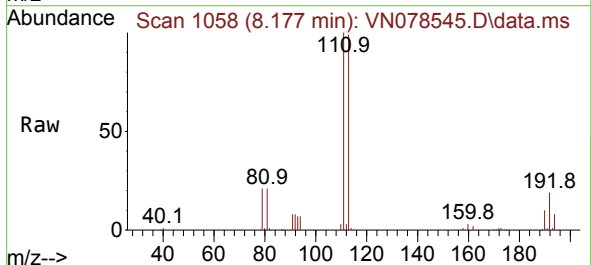
Instrument :
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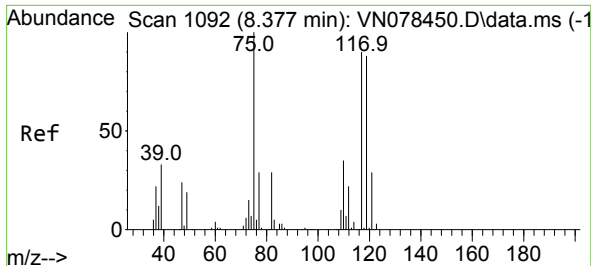
Tgt Ion:114 Resp: 726967
Ion Ratio Lower Upper
114 100
63 19.6 0.0 36.4
88 15.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 60.882 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

Tgt Ion:113 Resp: 300445
Ion Ratio Lower Upper
113 100
111 103.2 82.6 123.8
192 18.5 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.856 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.142 min

Lab File: VN078545.D

Acq: 17 Jul 2023 16:02

Instrument :

MSVOA_N

ClientSampleId :

IBLK

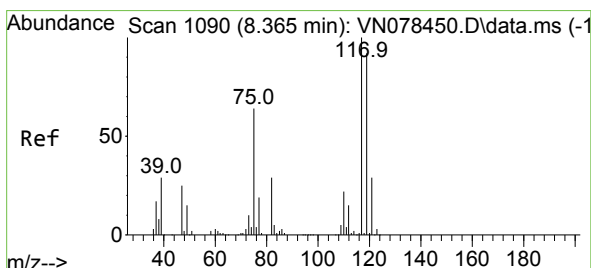
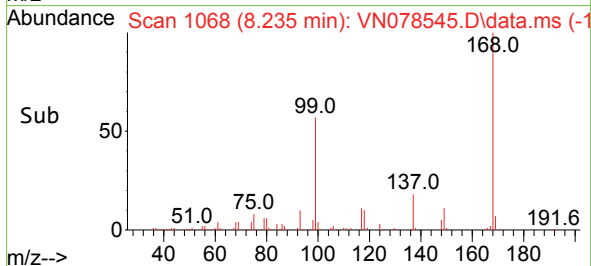
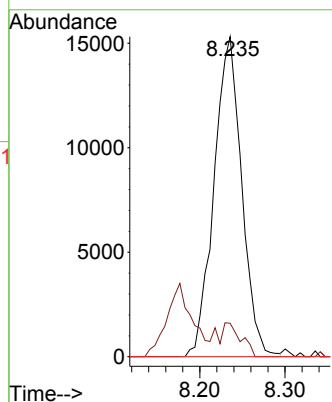
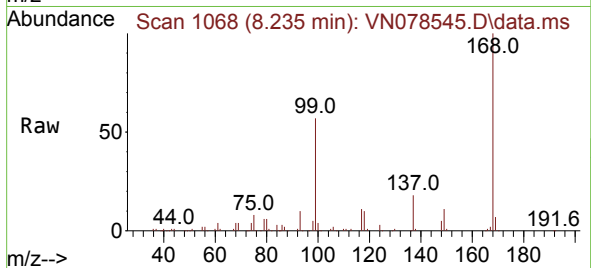
Tgt Ion: 75 Resp: 34600

Ion Ratio Lower Upper

75 100

110 8.8 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.851 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.130 min

Lab File: VN078545.D

Acq: 17 Jul 2023 16:02

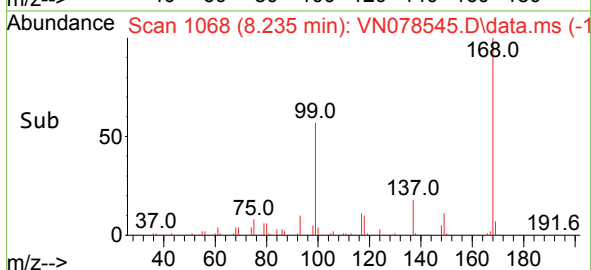
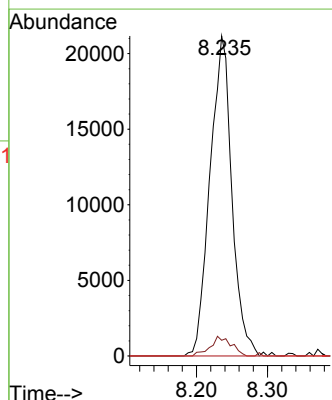
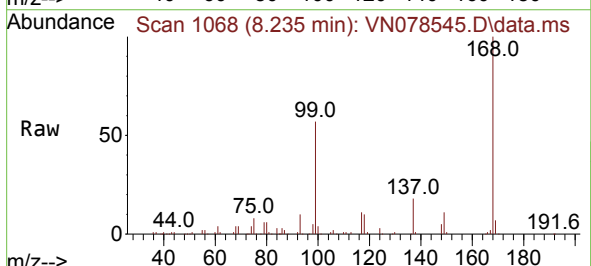
Tgt Ion: 117 Resp: 45309

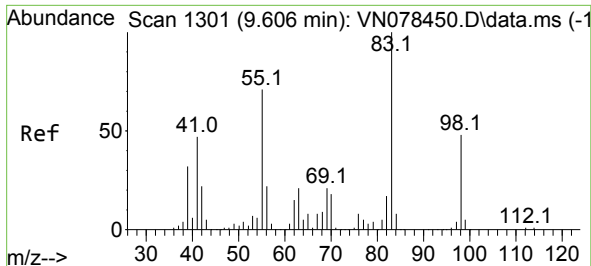
Ion Ratio Lower Upper

117 100

119 4.9 77.3 115.9#

121 0.0 23.3 34.9#

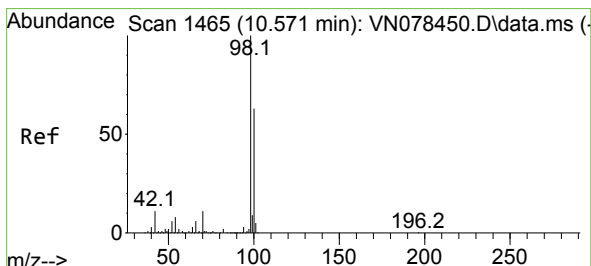
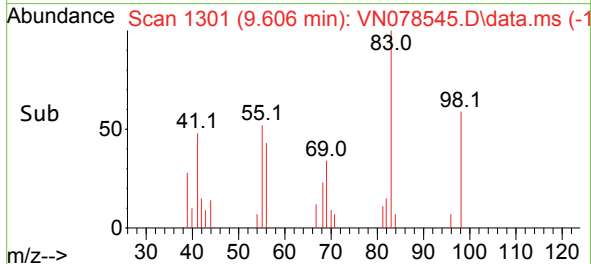
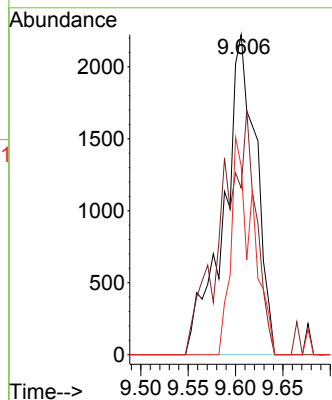
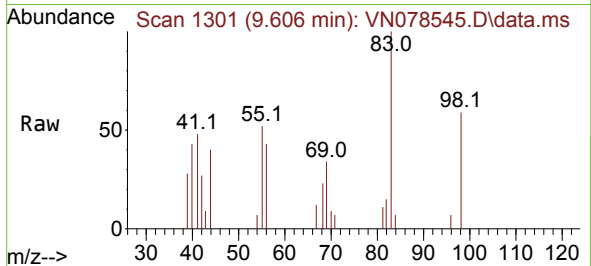




#39
Methylcyclohexane
Concen: 0.807 ug/l
RT: 9.606 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

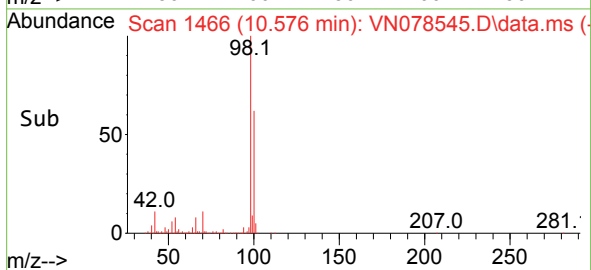
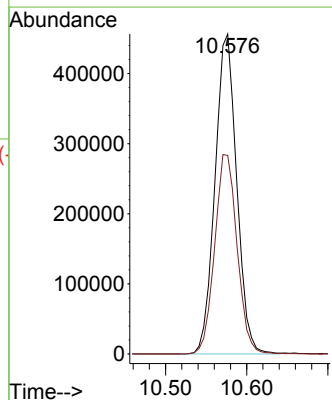
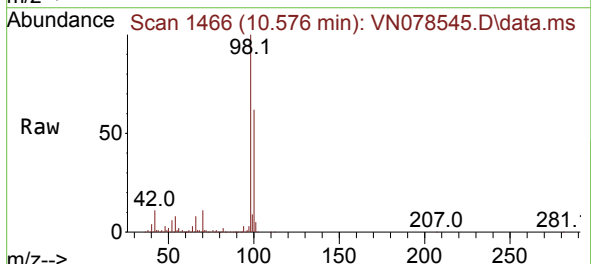
Instrument :
MSVOA_N
ClientSampleId :
IBLK

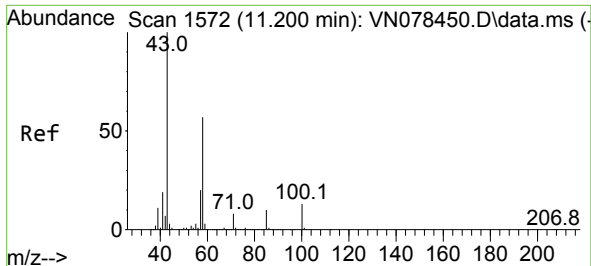
Tgt Ion: 83 Resp: 5246
Ion Ratio Lower Upper
83 100
55 52.1 49.1 73.7
98 59.0 40.6 61.0



#50
Toluene-d8
Concen: 45.464 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.005 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

Tgt Ion: 98 Resp: 847559
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0

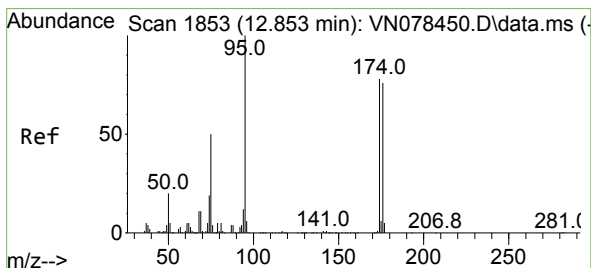
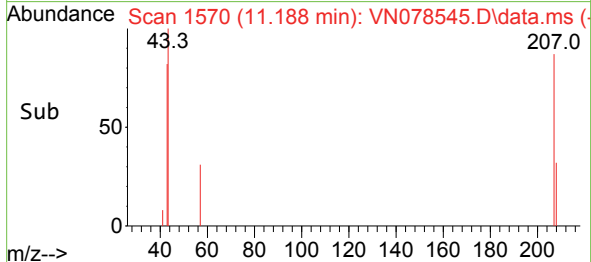
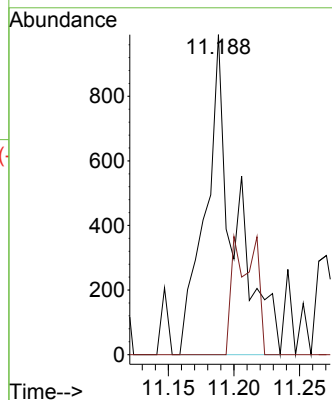
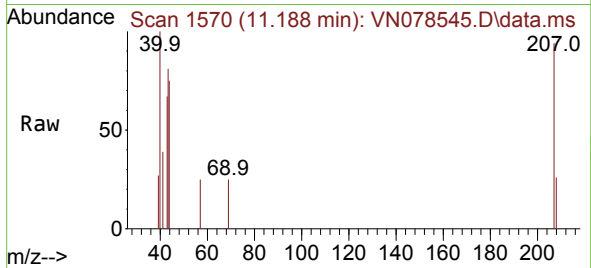




#59
2-Hexanone
Concen: 0.373 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.012 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

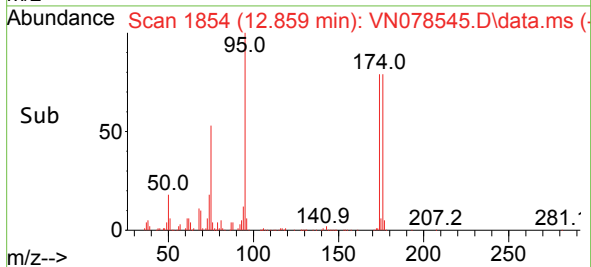
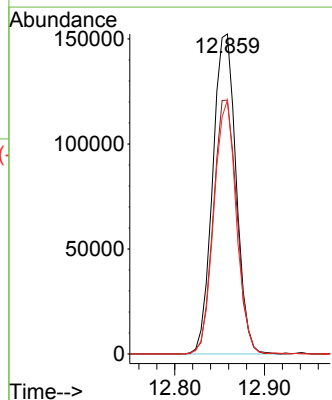
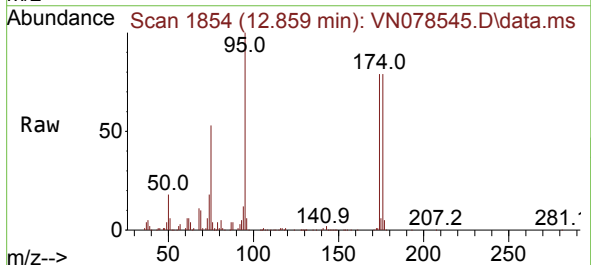
Instrument :
MSVOA_N
ClientSampleId :
IBLK

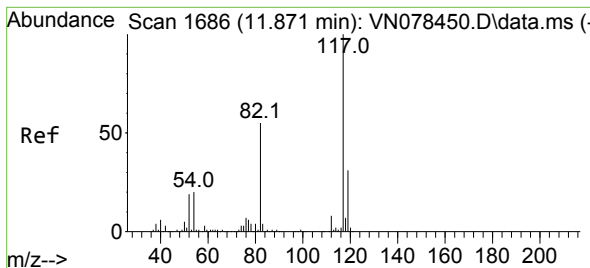
Tgt Ion: 43 Resp: 1541
Ion Ratio Lower Upper
43 100
58 28.1 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 48.021 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

Tgt Ion: 95 Resp: 275750
Ion Ratio Lower Upper
95 100
174 79.5 0.0 143.8
176 76.1 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.870 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN078545.D

Acq: 17 Jul 2023 16:02

Instrument :

MSVOA_N

ClientSampleId :

IBLK

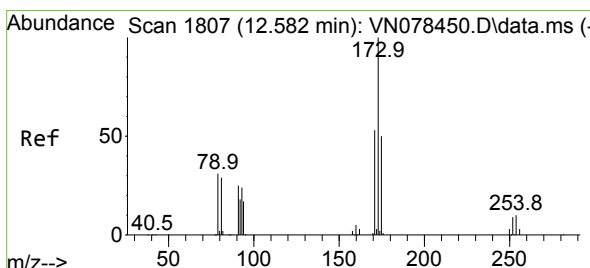
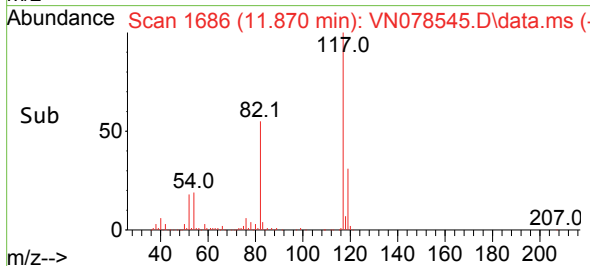
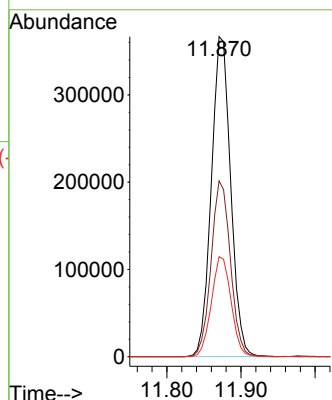
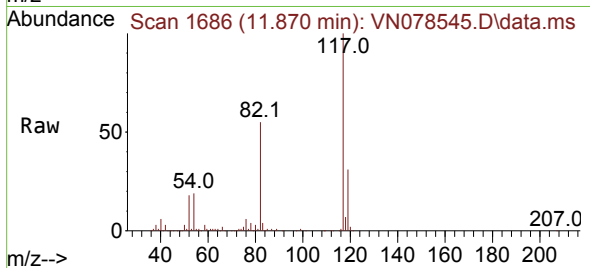
Tgt Ion:117 Resp: 663650

Ion Ratio Lower Upper

117 100

82 55.0 44.0 66.0

119 31.3 25.6 38.4



#71

Bromoform

Concen: 0.404 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

Lab File: VN078545.D

Acq: 17 Jul 2023 16:02

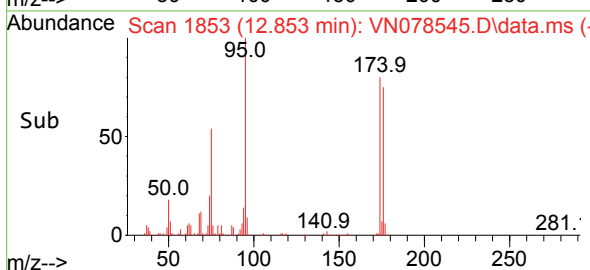
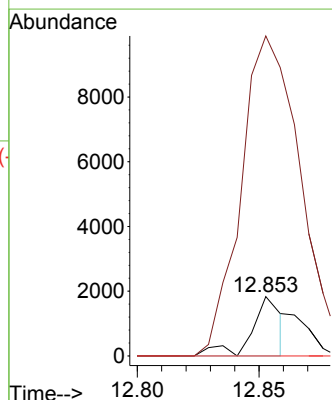
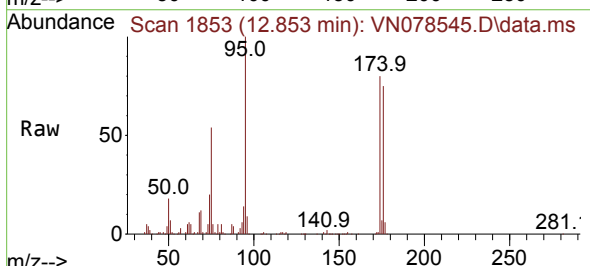
Tgt Ion:173 Resp: 1560

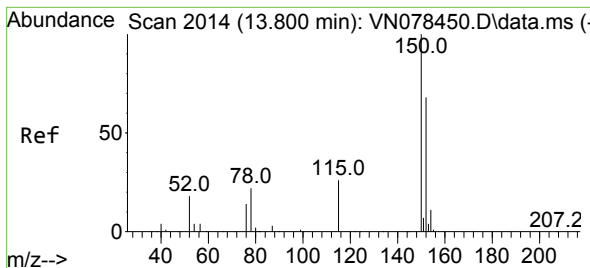
Ion Ratio Lower Upper

173 100

175 763.9 24.3 73.0#

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078545.D

Acq: 17 Jul 2023 16:02

Instrument :

MSVOA_N

ClientSampleId :

IBLK

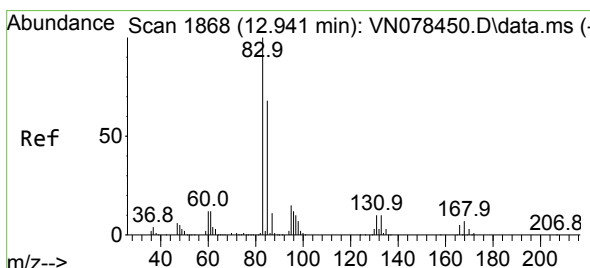
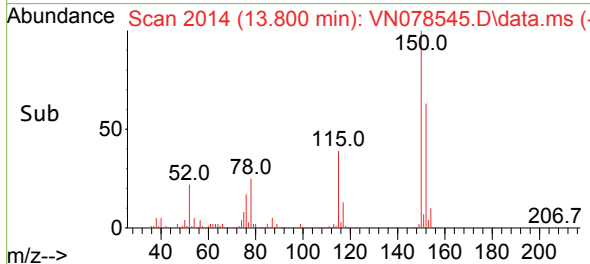
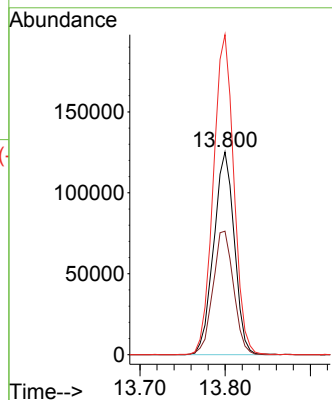
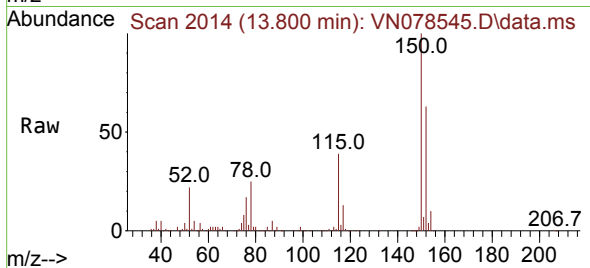
Tgt Ion:152 Resp: 210947

Ion Ratio Lower Upper

152 100

115 61.0 32.3 96.8

150 157.1 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.935 min Scan# 1867

Delta R.T. -0.006 min

Lab File: VN078545.D

Acq: 17 Jul 2023 16:02

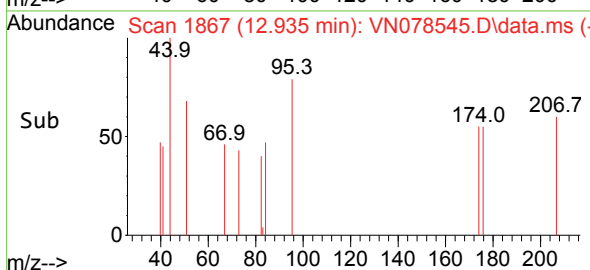
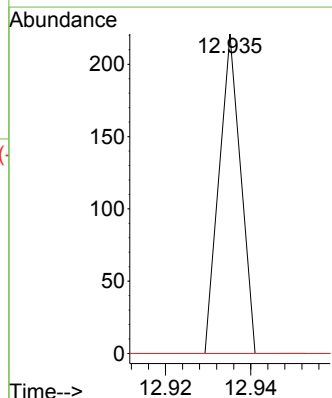
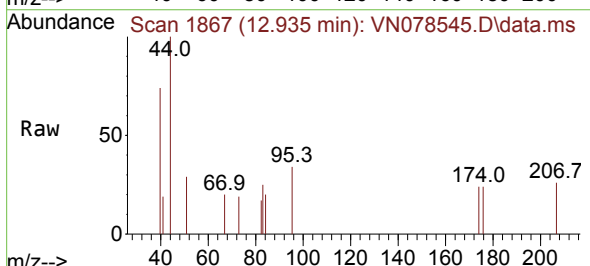
Tgt Ion: 83 Resp: 78

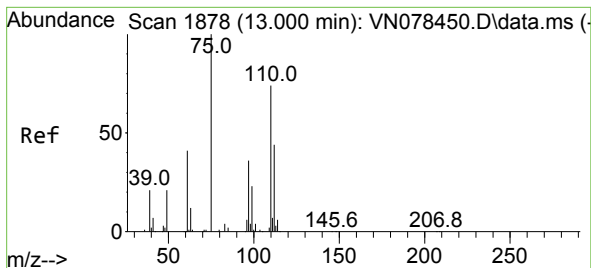
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 28.791 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN078545.D

Acq: 17 Jul 2023 16:02

Instrument :

MSVOA_N

ClientSampleId :

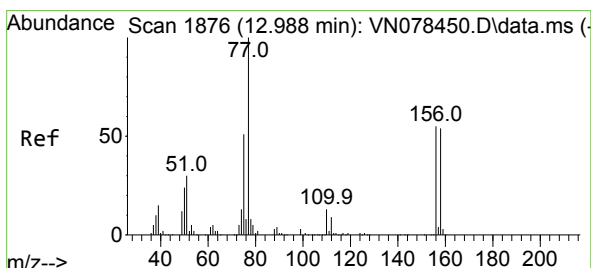
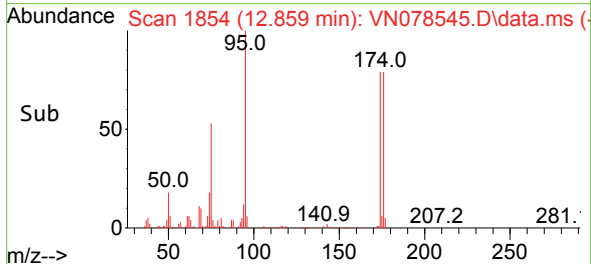
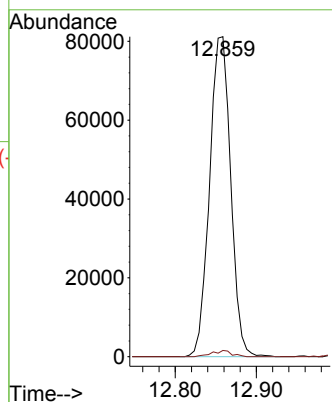
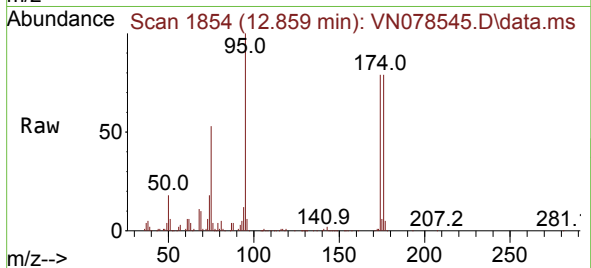
IBLK

Tgt Ion: 75 Resp: 146802

Ion Ratio Lower Upper

75 100

77 1.8 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.976 min Scan# 1874

Delta R.T. -0.012 min

Lab File: VN078545.D

Acq: 17 Jul 2023 16:02

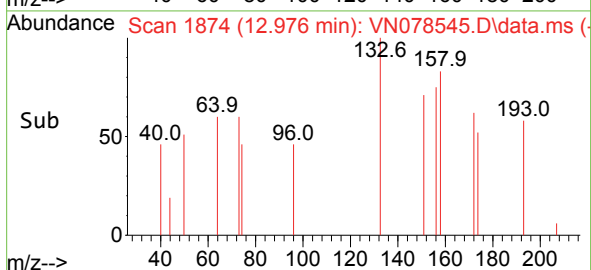
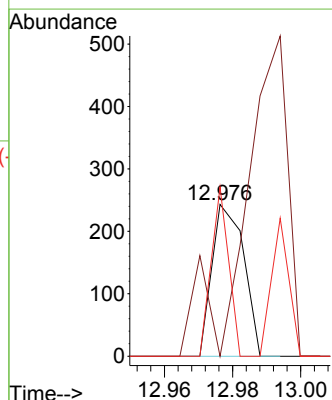
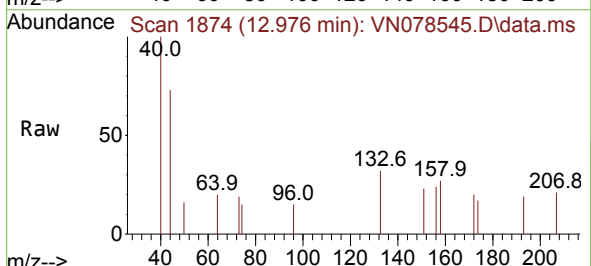
Tgt Ion:156 Resp: 157

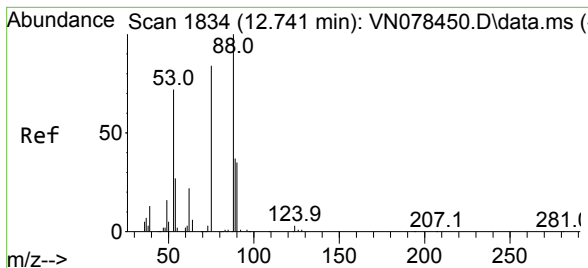
Ion Ratio Lower Upper

156 100

77 0.0 107.7 323.3#

158 61.1 48.4 145.3

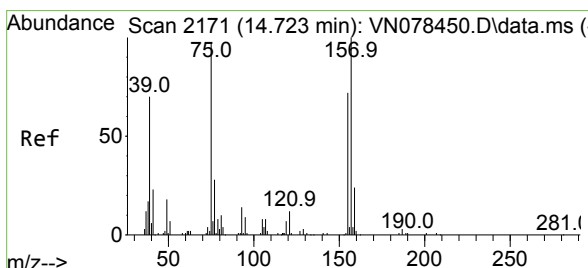
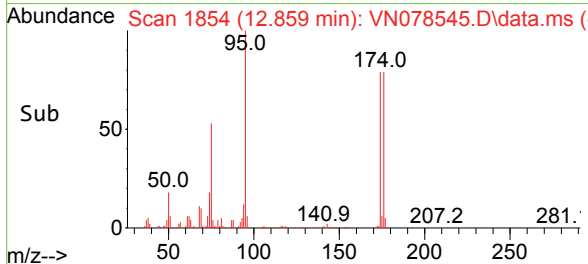
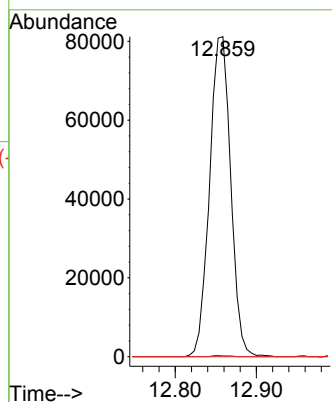
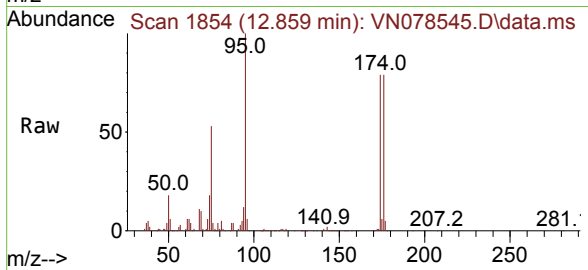




#81
trans-1,4-Dichloro-2-butene
Concen: 75.658 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

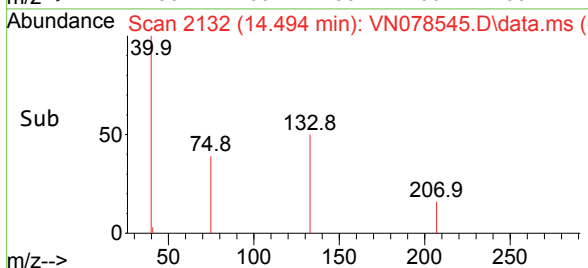
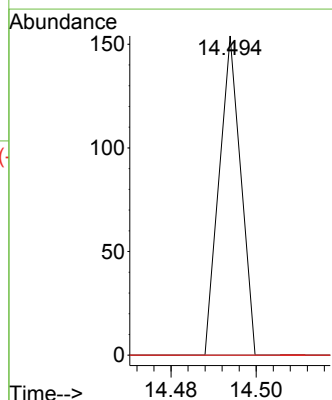
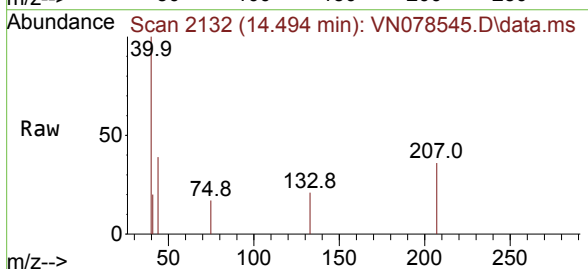
Instrument :
MSVOA_N
ClientSampleId :
IBLK

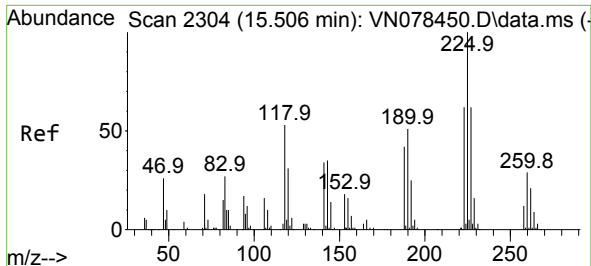
Tgt Ion: 75 Resp: 146802
Ion Ratio Lower Upper
75 100
53 0.3 67.4 101.2#
89 0.0 38.8 58.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.494 min Scan# 2132
Delta R.T. -0.229 min
Lab File: VN078545.D
Acq: 17 Jul 2023 16:02

Tgt Ion: 75 Resp: 54
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.523 min Scan# 21

Delta R.T. 0.017 min

Lab File: VN078545.D

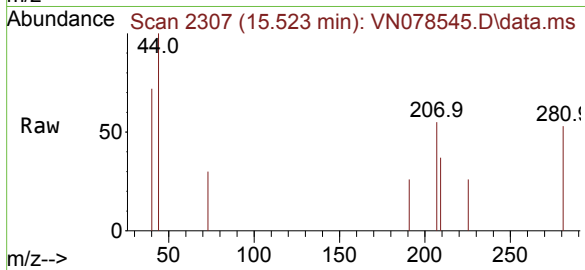
Acq: 17 Jul 2023 16:02

Instrument :

MSVOA_N

ClientSampleId :

IBLK



Tgt Ion:225 Resp: 61

Ion Ratio Lower Upper

225 100

223 0.0 31.3 93.8#

227 103.3 31.9 95.9#

