

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062723\
 Data File : VN078419.D
 Acq On : 27 Jun 2023 16:17
 Operator : JC\MD
 Sample : 03376-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-2

Quant Time: Jun 28 07:11:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

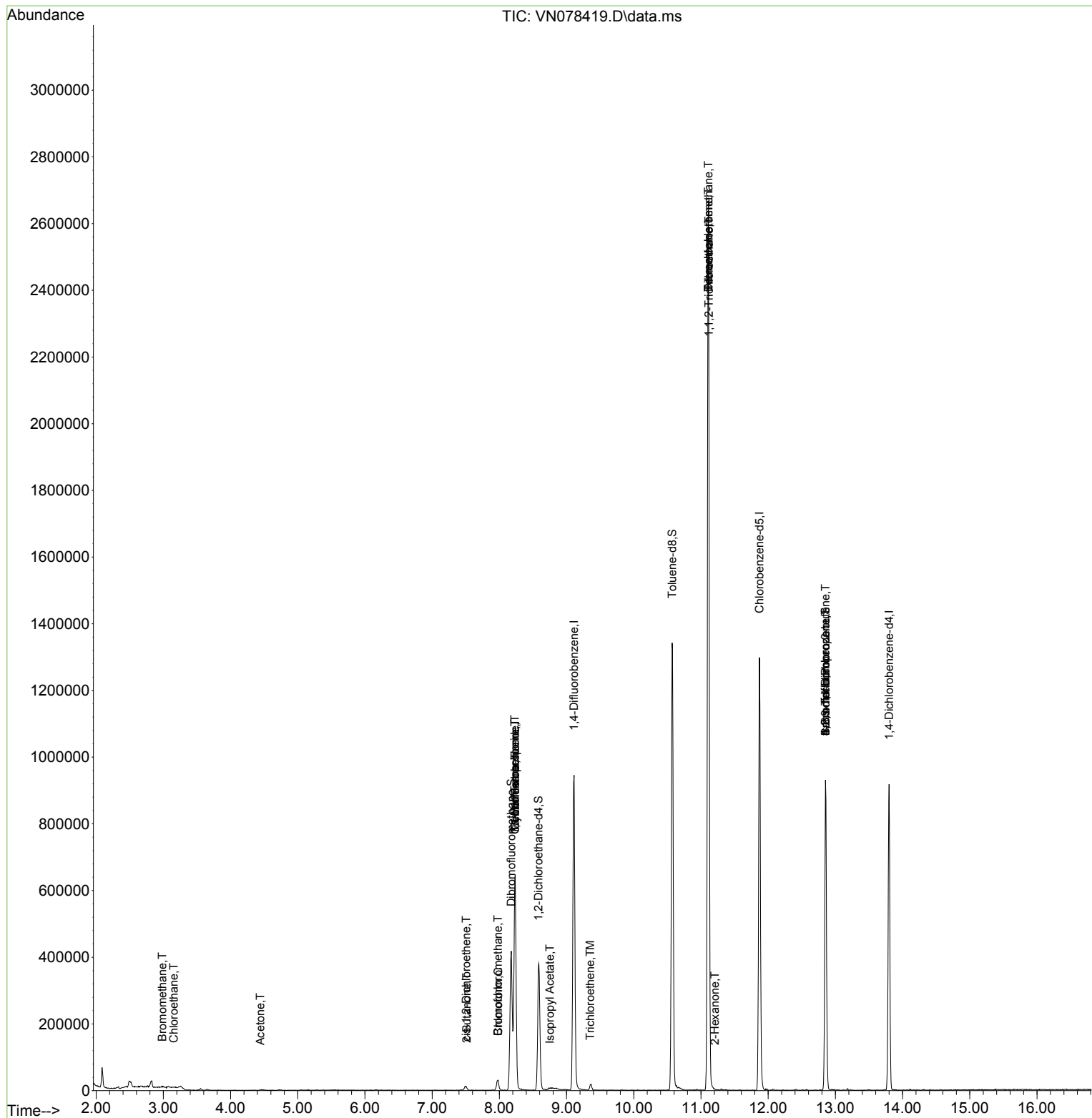
Internal Standards							
1) Pentafluorobenzene		8.235	168	466066	50.000	ug/l	0.00
34) 1,4-Difluorobenzene		9.112	114	859027	50.000	ug/l	0.00
63) Chlorobenzene-d5		11.870	117	783714	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4		13.800	152	250691	50.000	ug/l	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4		8.582	65	316573	50.944	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	101.880%	
35) Dibromofluoromethane		8.177	113	301036	55.424	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	110.840%	
50) Toluene-d8		10.571	98	990895	47.323	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.640%	
62) 4-Bromofluorobenzene		12.853	95	329293	50.587	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	101.180%	
Target Compounds							
						Qvalue	
3) Chloromethane		2.371	50	1365	Below Cal		92
5) Bromomethane		2.983	94	2425	0.465	ug/l	81
6) Chloroethane		3.153	64	1103	0.235	ug/l #	43
16) Acetone		4.441	43	1142	0.638	ug/l	90
25) 2-Butanone		7.512	43	1082	0.393	ug/l #	37
27) cis-1,2-Dichloroethene		7.506	96	7204	1.100	ug/l	93
28) Bromochloromethane		7.977	49	1968	0.445	ug/l #	5
30) Chloroform		7.982	83	29559	2.847	ug/l	96
31) Cyclohexane		8.235	56	10706	1.343	ug/l #	13
36) 1,1-Dichloropropene		8.229	75	38684	4.965	ug/l #	48
38) Carbon Tetrachloride		8.229	117	50137	6.095	ug/l #	16
43) Isopropyl Acetate		8.753	43	5905	0.507	ug/l #	49
44) Trichloroethene		9.353	130	6065	0.987	ug/l	86
55) 1,1,2-Trichloroethane		11.118	97	5836	1.051	ug/l #	10
59) 2-Hexanone		11.206	43	1258	0.295	ug/l #	40
60) Dibromochloromethane		11.112	129	609012	100.185	ug/l #	11
64) Tetrachloroethene		11.112	164	602389	115.214	ug/l	99
71) Bromoform		12.853	173	2795	0.702	ug/l #	1
75) 1,1,2,2-Tetrachloroethane		12.947	83	58	Below Cal	#	26
76) 1,2,3-Trichloropropane		12.853	75	174289	29.409	ug/l #	1
81) trans-1,4-Dichloro-2-b...		12.853	75	174289	90.353	ug/l #	15
94) Hexachlorobutadiene		15.506	225	199	Below Cal	#	12

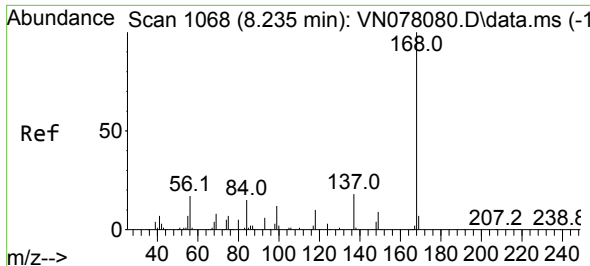
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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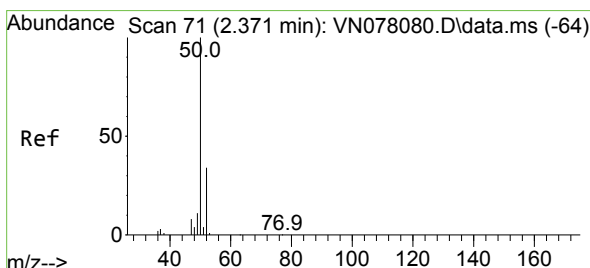
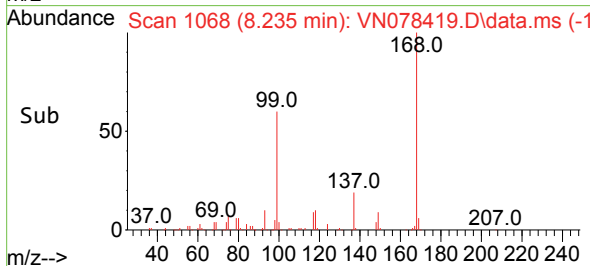
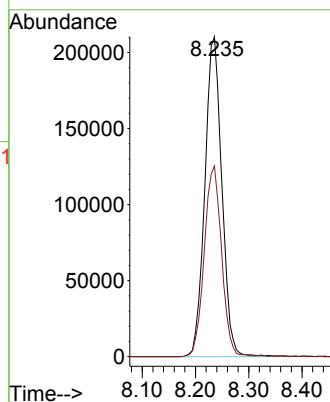
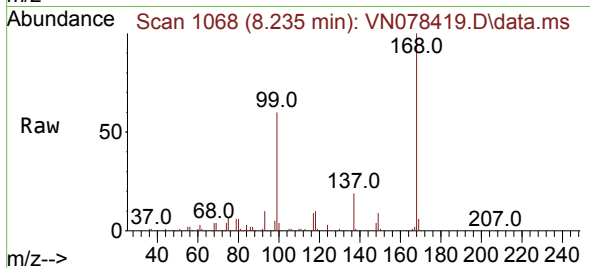




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

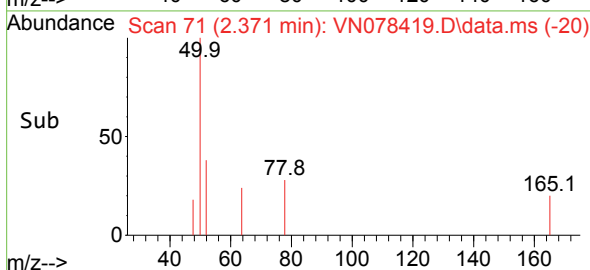
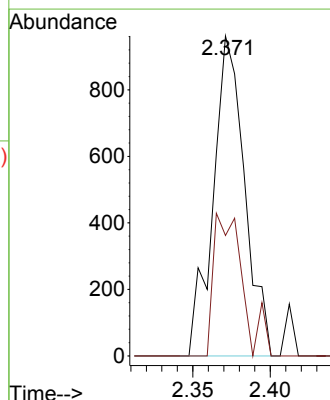
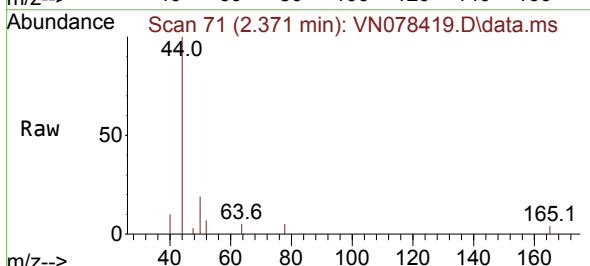
Instrument :
MSVOA_N
ClientSampleId :
TW-2

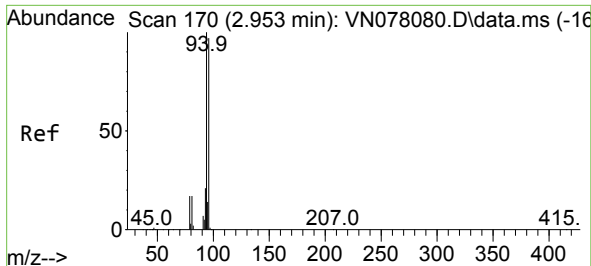
Tgt Ion:168 Resp: 466066
Ion Ratio Lower Upper
168 100
99 59.6 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

Tgt Ion: 50 Resp: 1365
Ion Ratio Lower Upper
50 100
52 37.6 26.5 39.7

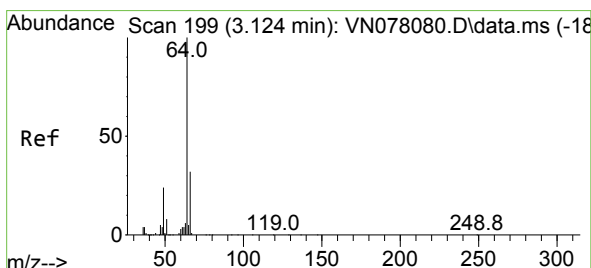
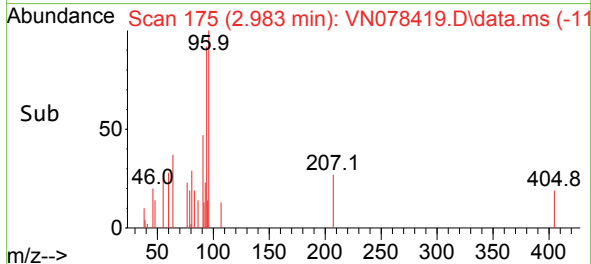
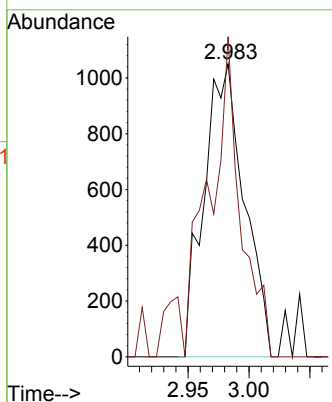
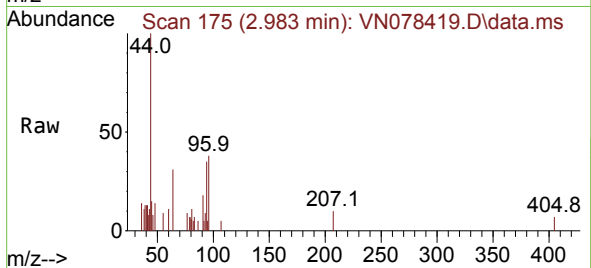




#5
Bromomethane
Concen: 0.465 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

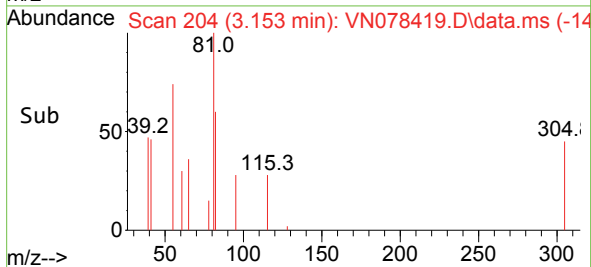
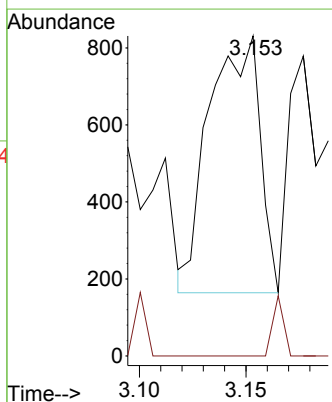
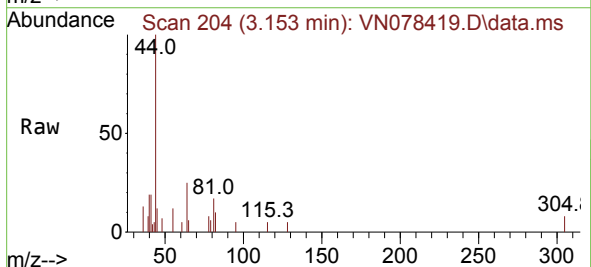
Instrument :
MSVOA_N
ClientSampleId :
TW-2

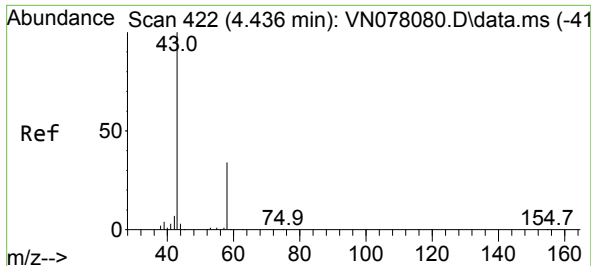
Tgt Ion: 94 Resp: 2425
Ion Ratio Lower Upper
94 100
96 109.2 73.1 109.7



#6
Chloroethane
Concen: 0.235 ug/l
RT: 3.153 min Scan# 204
Delta R.T. 0.029 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

Tgt Ion: 64 Resp: 1103
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

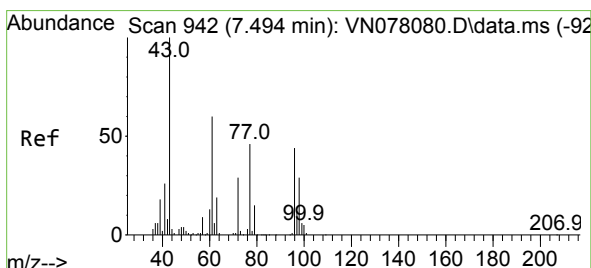
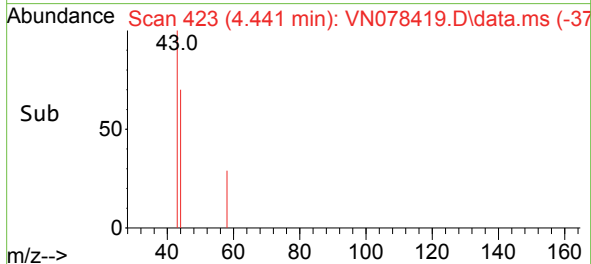
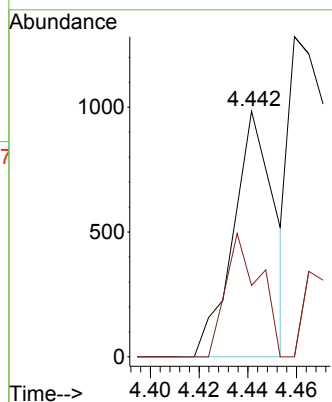
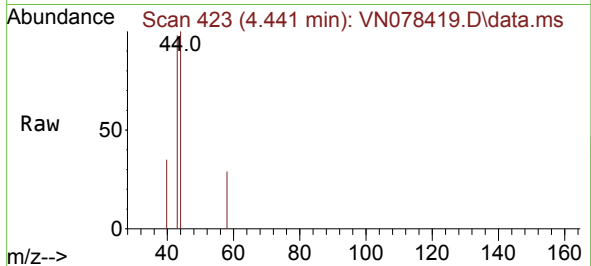




#16
Acetone
Concen: 0.638 ug/l
RT: 4.441 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

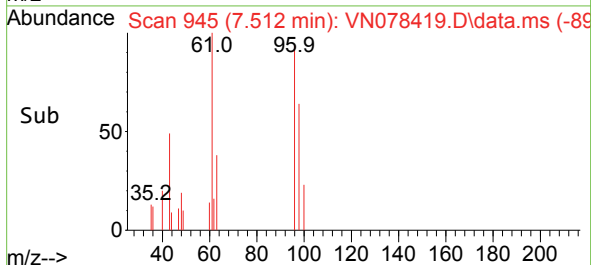
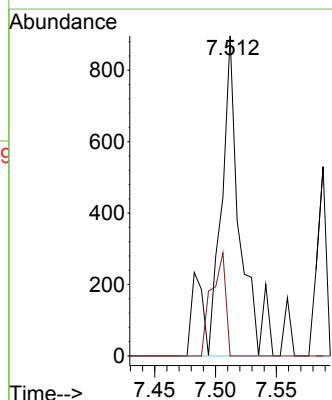
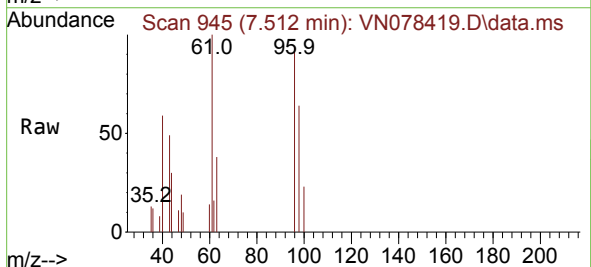
Instrument :
MSVOA_N
ClientSampleId :
TW-2

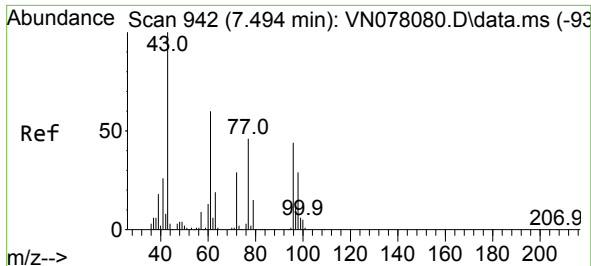
Tgt Ion: 43 Resp: 1142
Ion Ratio Lower Upper
43 100
58 29.1 28.0 42.0



#25
2-Butanone
Concen: 0.393 ug/l
RT: 7.512 min Scan# 945
Delta R.T. 0.018 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

Tgt Ion: 43 Resp: 1082
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#

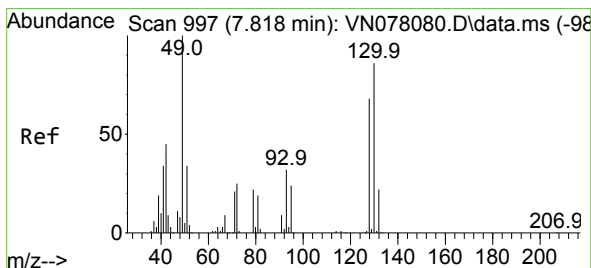
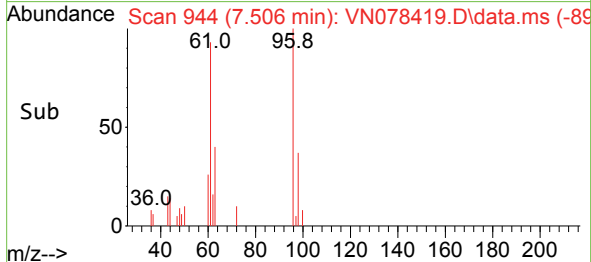
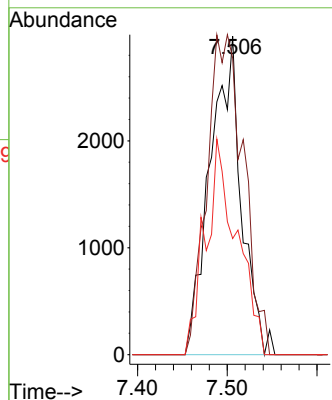
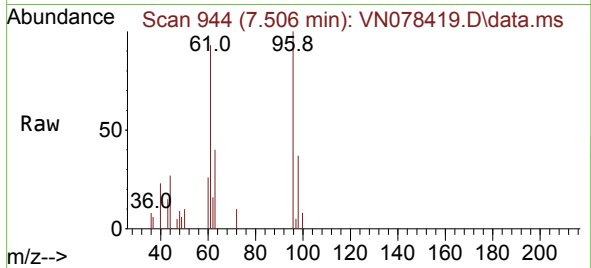




#27
 cis-1,2-Dichloroethene
 Concen: 1.100 ug/l
 RT: 7.506 min Scan# 94
 Delta R.T. 0.012 min
 Lab File: VN078419.D
 Acq: 27 Jun 2023 16:17

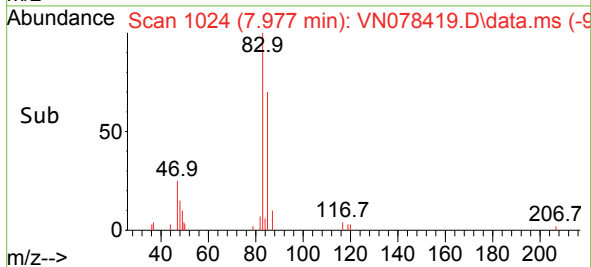
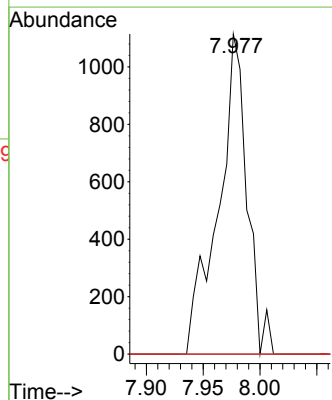
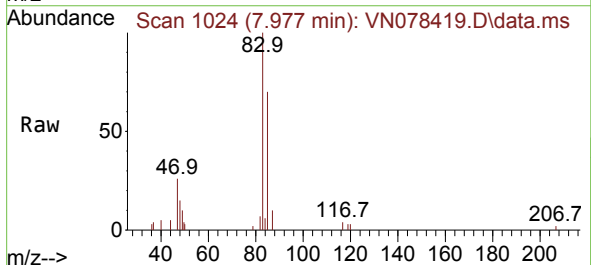
Instrument :
 MSVOA_N
 ClientSampleId :
 TW-2

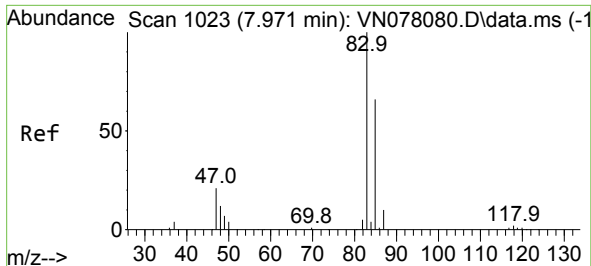
Tgt Ion: 96 Resp: 7204
 Ion Ratio Lower Upper
 96 100
 61 117.9 0.0 255.2
 98 67.7 0.0 128.8



#28
 Bromochloromethane
 Concen: 0.445 ug/l
 RT: 7.977 min Scan# 1024
 Delta R.T. 0.159 min
 Lab File: VN078419.D
 Acq: 27 Jun 2023 16:17

Tgt Ion: 49 Resp: 1968
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 4.8
 130 0.0 75.3 112.9#





#30

Chloroform

Concen: 2.847 ug/l

RT: 7.982 min Scan# 1025

Delta R.T. 0.012 min

Lab File: VN078419.D

Acq: 27 Jun 2023 16:17

Instrument :

MSVOA_N

ClientSampleId :

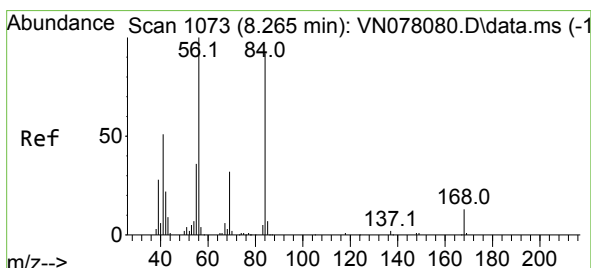
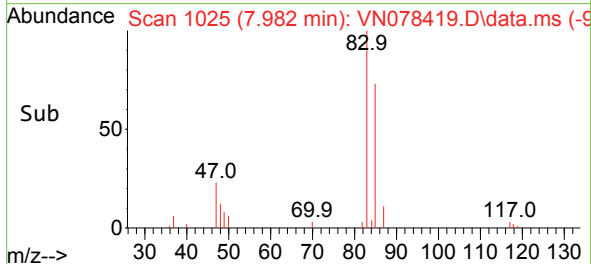
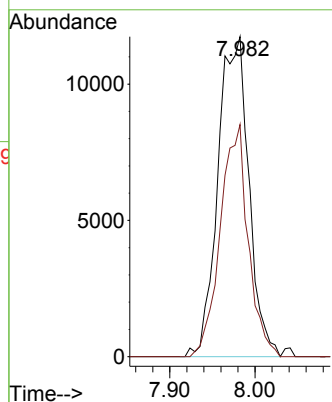
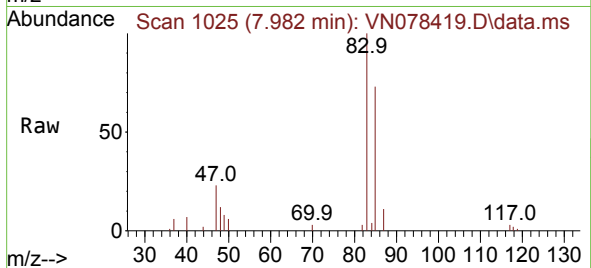
TW-2

Tgt Ion: 83 Resp: 29559

Ion Ratio Lower Upper

83 100

85 72.5 55.4 83.0



#31

Cyclohexane

Concen: 1.343 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.029 min

Lab File: VN078419.D

Acq: 27 Jun 2023 16:17

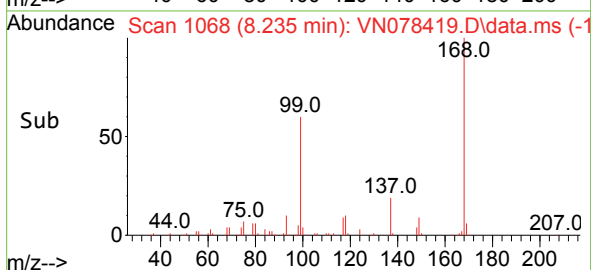
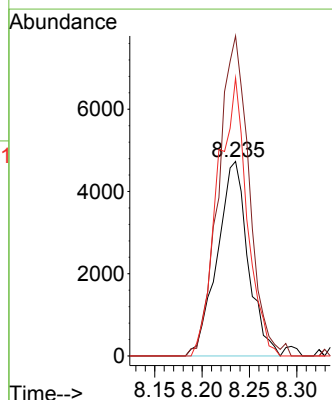
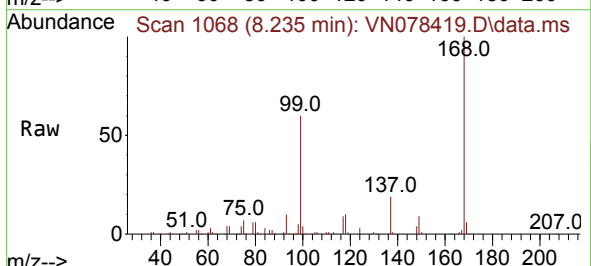
Tgt Ion: 56 Resp: 10706

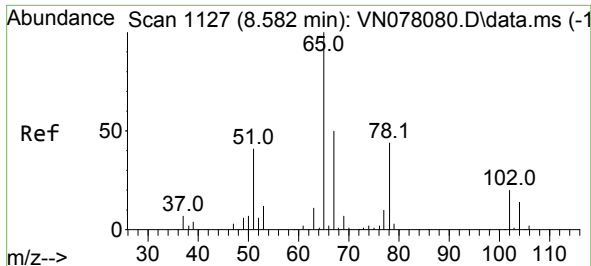
Ion Ratio Lower Upper

56 100

69 164.5 26.8 40.2#

84 142.9 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 50.944 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN078419.D

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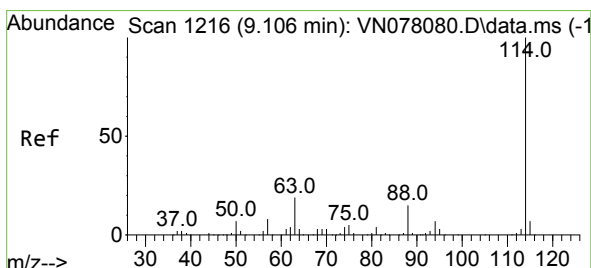
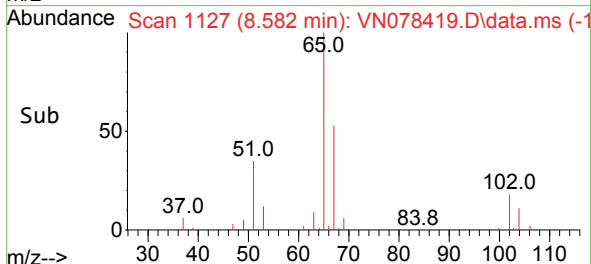
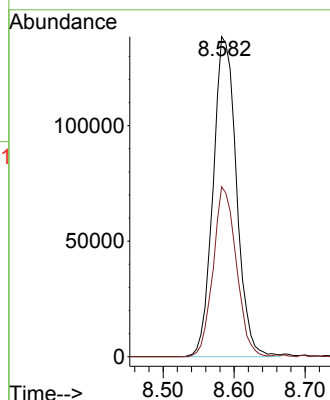
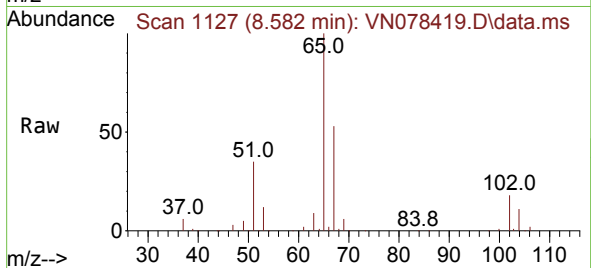
TW-2

Tgt Ion: 65 Resp: 316573

Ion Ratio Lower Upper

65 100

67 52.5 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: VN078419.D

Acq: 27 Jun 2023 16:17

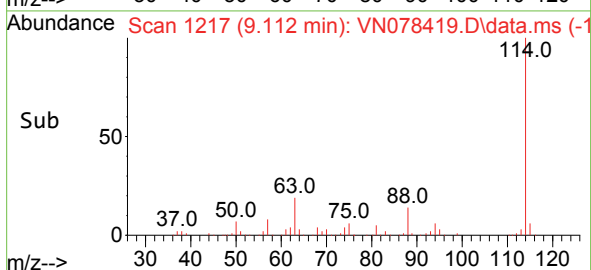
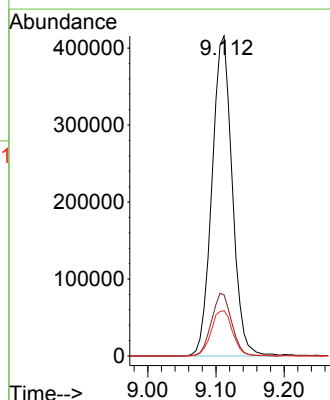
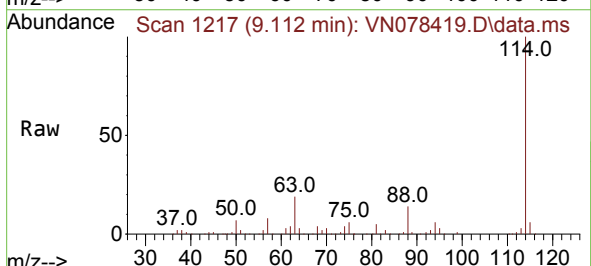
Tgt Ion: 114 Resp: 859027

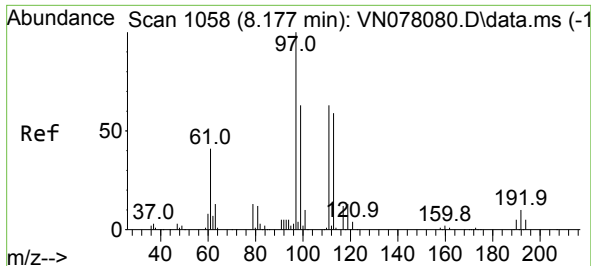
Ion Ratio Lower Upper

114 100

63 19.1 0.0 36.4

88 14.1 0.0 30.6

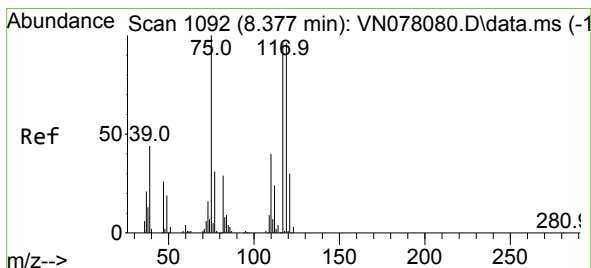
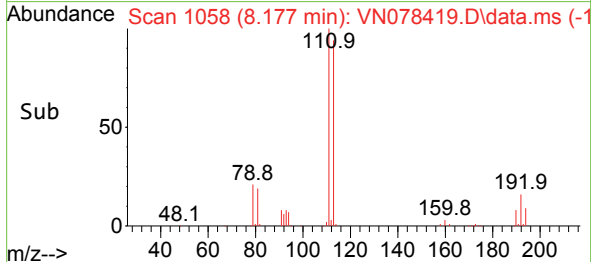
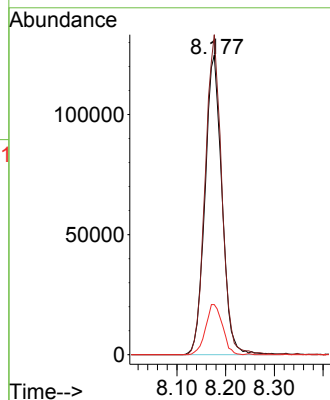
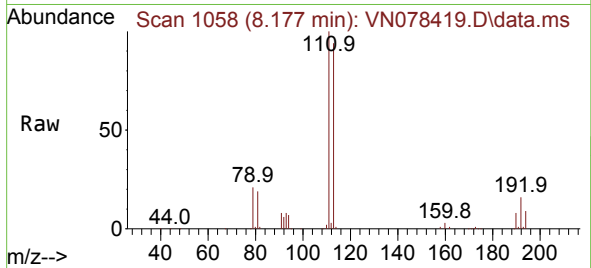




#35
 Dibromofluoromethane
 Concen: 55.424 ug/l
 RT: 8.177 min Scan# 1058
 Delta R.T. -0.000 min
 Lab File: VN078419.D
 Acq: 27 Jun 2023 16:17

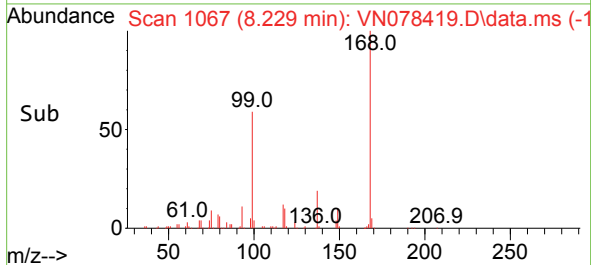
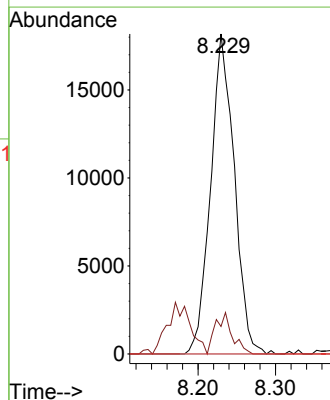
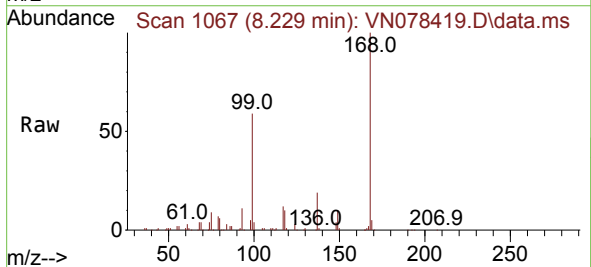
Instrument :
 MSVOA_N
 ClientSampleId :
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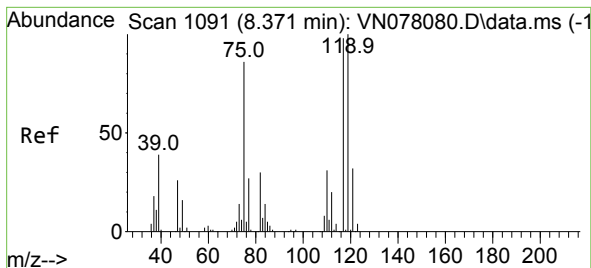
Tgt Ion:113 Resp: 301036
 Ion Ratio Lower Upper
 113 100
 111 104.4 82.6 123.8
 192 16.7 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 4.965 ug/l
 RT: 8.229 min Scan# 1067
 Delta R.T. -0.147 min
 Lab File: VN078419.D
 Acq: 27 Jun 2023 16:17

Tgt Ion: 75 Resp: 38684
 Ion Ratio Lower Upper
 75 100
 110 9.2 19.1 57.3#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.095 ug/l

RT: 8.229 min Scan# 1106

Delta R.T. -0.141 min

Lab File: VN078419.D

Acq: 27 Jun 2023 16:17

Instrument :

MSVOA_N

ClientSampleId :

TW-2

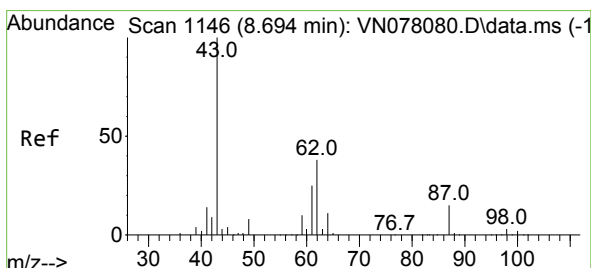
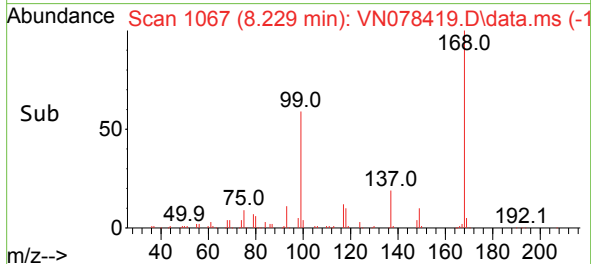
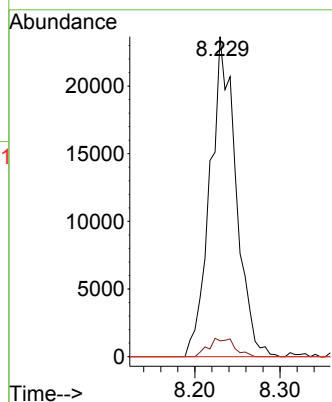
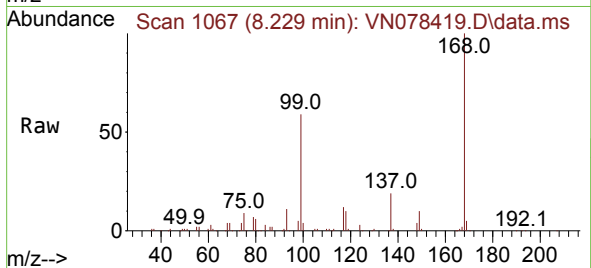
Tgt Ion:117 Resp: 50137

Ion Ratio Lower Upper

117 100

119 4.9 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 0.507 ug/l

RT: 8.753 min Scan# 1156

Delta R.T. 0.059 min

Lab File: VN078419.D

Acq: 27 Jun 2023 16:17

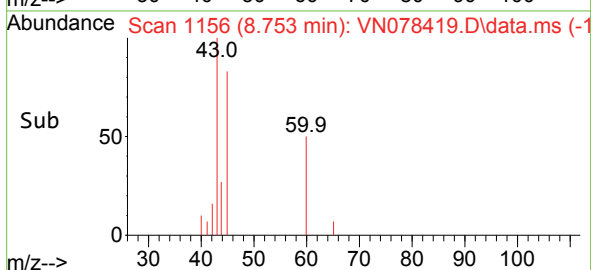
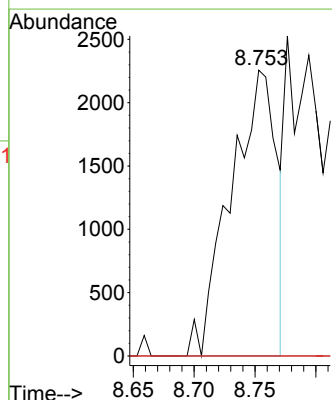
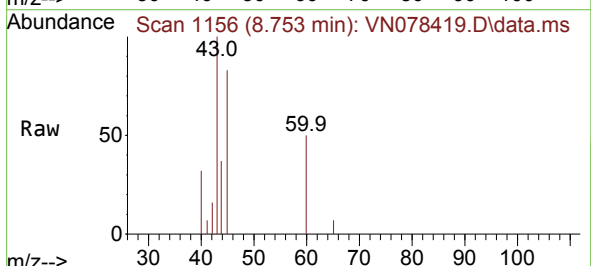
Tgt Ion: 43 Resp: 5905

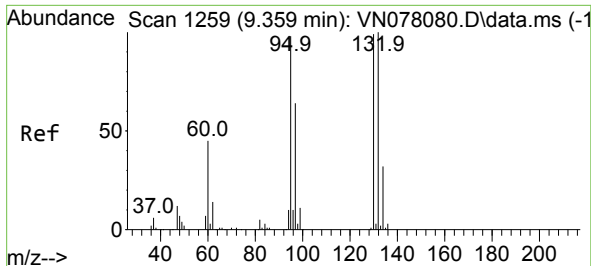
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#

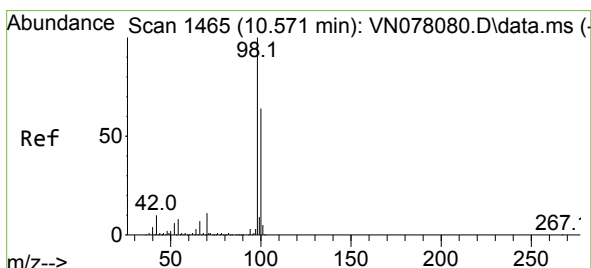
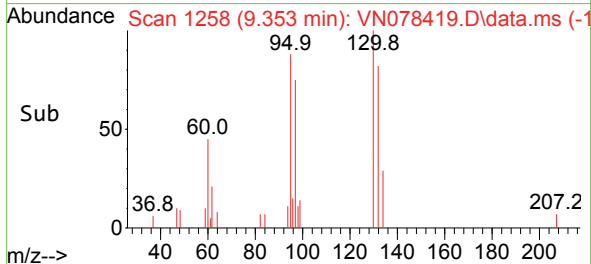
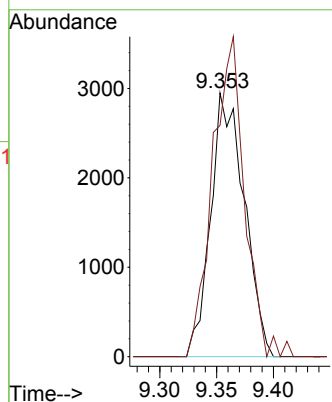
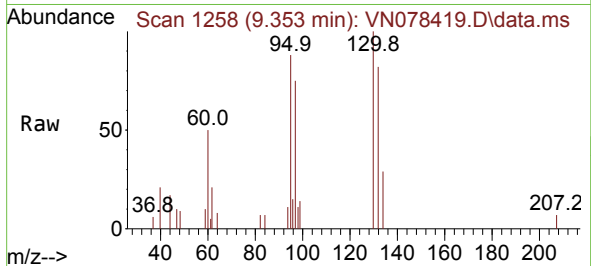




#44
Trichloroethene
Concen: 0.987 ug/l
RT: 9.353 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

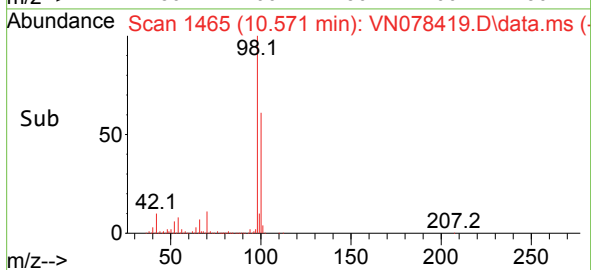
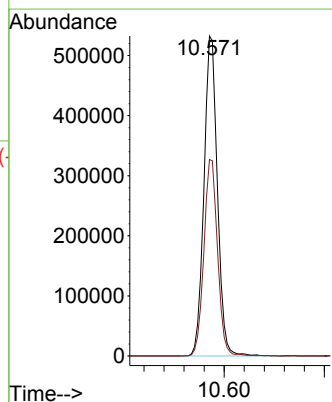
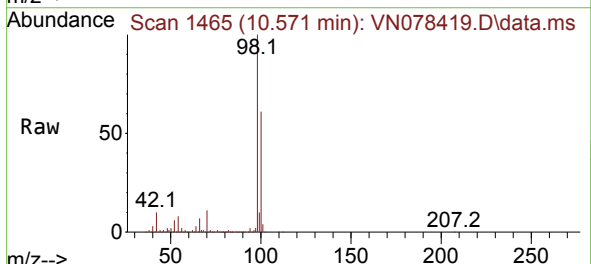
Instrument :
MSVOA_N
ClientSampleId :
TW-2

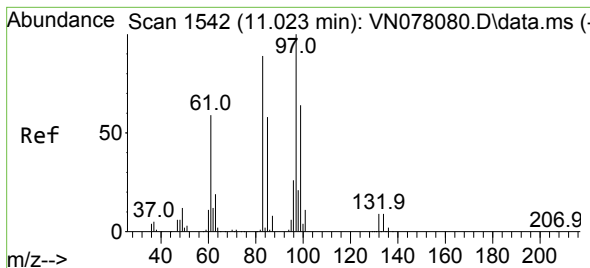
Tgt Ion:130 Resp: 6065
Ion Ratio Lower Upper
130 100
95 87.7 0.0 204.6



#50
Toluene-d8
Concen: 47.323 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

Tgt Ion: 98 Resp: 990895
Ion Ratio Lower Upper
98 100
100 62.5 52.0 78.0





#55

1,1,2-Trichloroethane

Concen: 1.051 ug/l

RT: 11.118 min Scan# 1558

Delta R.T. 0.094 min

Lab File: VN078419.D

Acq: 27 Jun 2023 16:17

Instrument :

MSVOA_N

ClientSampleId :

TW-2

Tgt Ion: 97 Resp: 5836

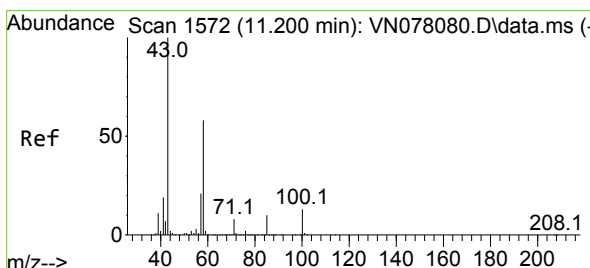
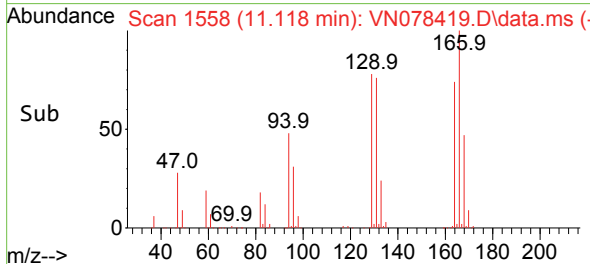
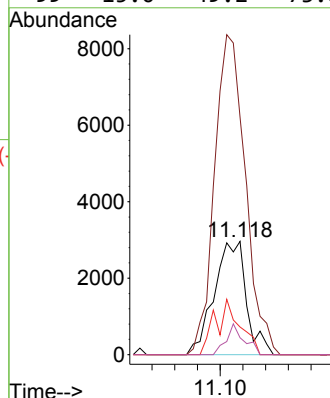
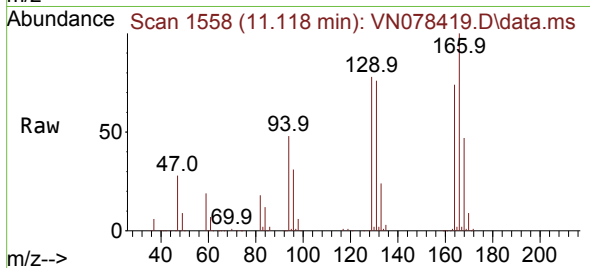
Ion Ratio Lower Upper

97 100

83 209.8 65.1 97.7#

85 24.5 43.4 65.2#

99 15.0 49.2 73.8#



#59

2-Hexanone

Concen: 0.295 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN078419.D

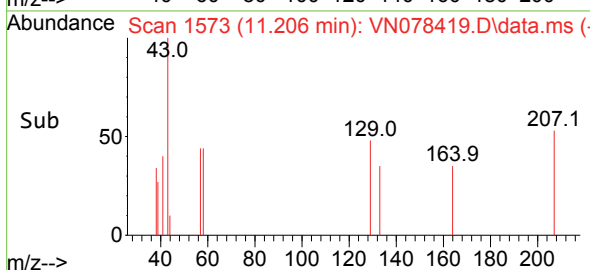
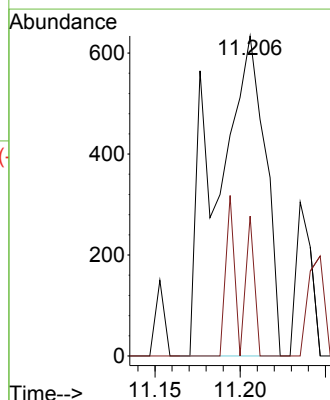
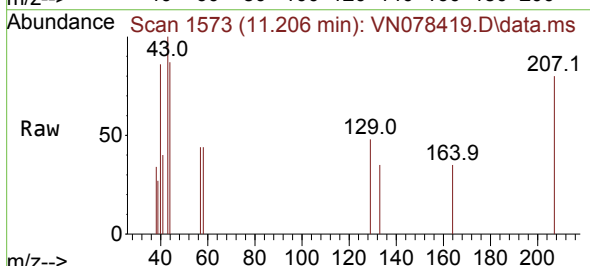
Acq: 27 Jun 2023 16:17

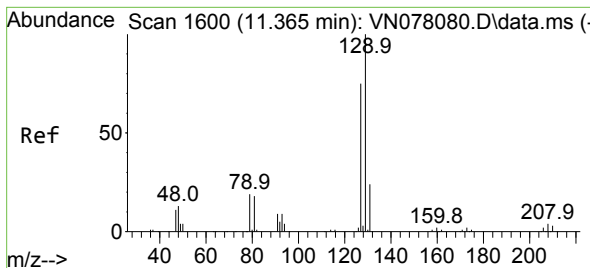
Tgt Ion: 43 Resp: 1258

Ion Ratio Lower Upper

43 100

58 16.7 31.7 95.1#





#60

Dibromochloromethane

Concen: 100.185 ug/l

RT: 11.112 min Scan# 11

Delta R.T. -0.253 min

Lab File: VN078419.D

Acq: 27 Jun 2023 16:17

Instrument :

MSVOA_N

ClientSampleId :

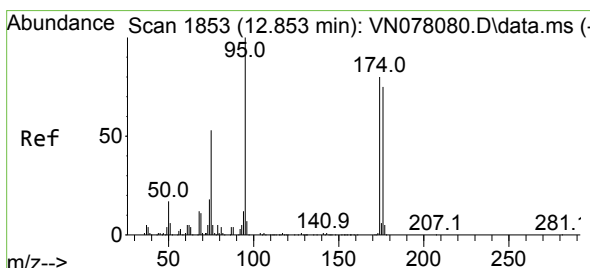
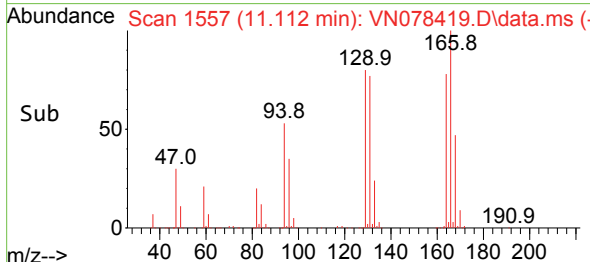
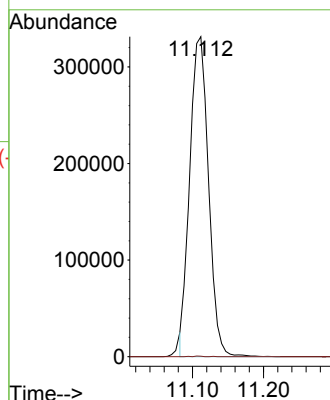
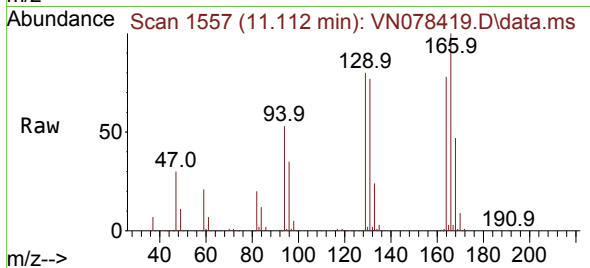
TW-2

Tgt Ion:129 Resp: 609012

Ion Ratio Lower Upper

129 100

127 0.1 38.6 116.0#



#62

4-Bromofluorobenzene

Concen: 50.587 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VN078419.D

Acq: 27 Jun 2023 16:17

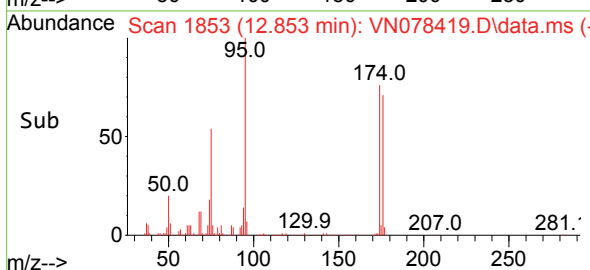
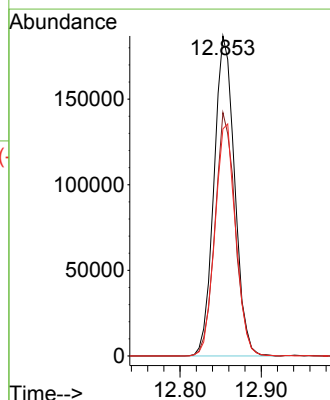
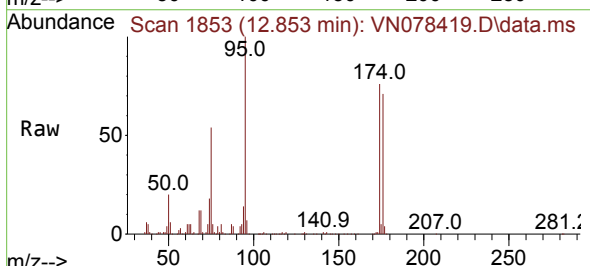
Tgt Ion: 95 Resp: 329293

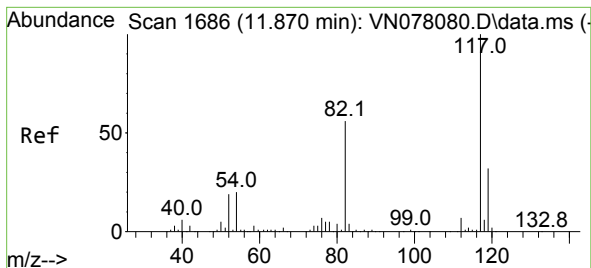
Ion Ratio Lower Upper

95 100

174 75.0 0.0 143.8

176 73.2 0.0 135.8

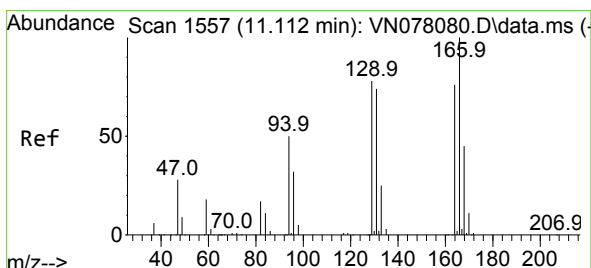
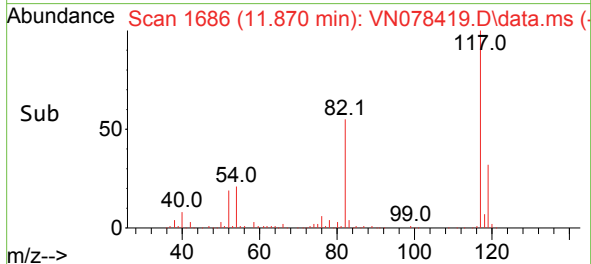
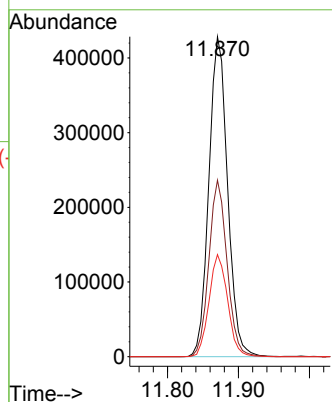
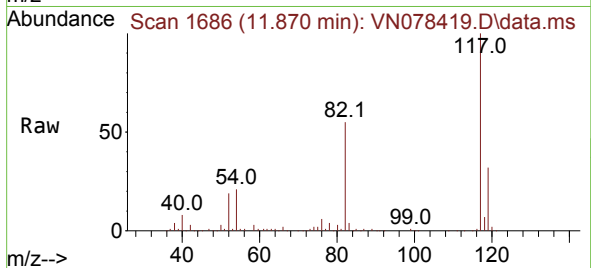




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

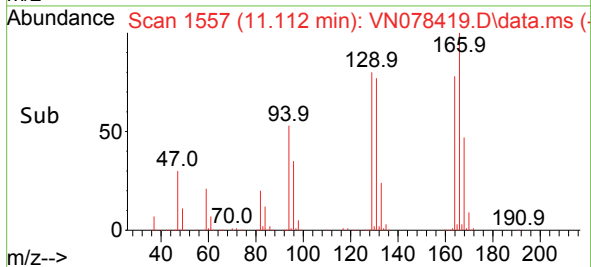
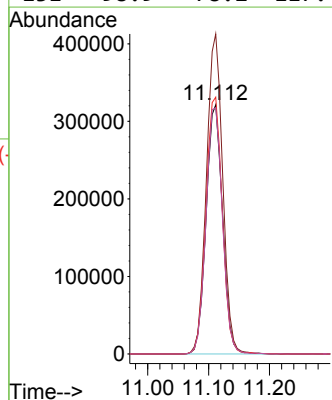
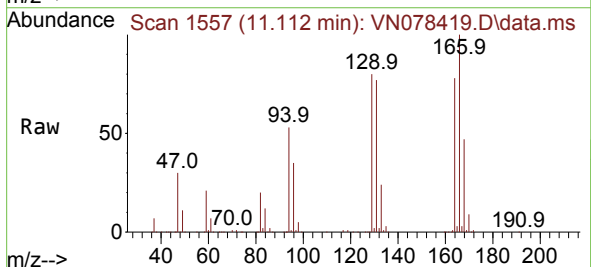
Instrument :
MSVOA_N
ClientSampleId :
TW-2

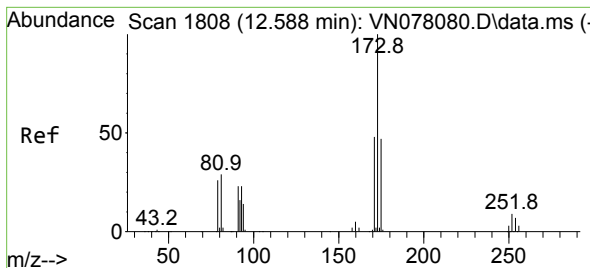
Tgt Ion:117 Resp: 783714
Ion Ratio Lower Upper
117 100
82 55.2 44.0 66.0
119 31.9 25.6 38.4



#64
Tetrachloroethene
Concen: 115.214 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. -0.000 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

Tgt Ion:164 Resp: 602389
Ion Ratio Lower Upper
164 100
166 128.5 101.4 152.0
129 103.1 82.4 123.6
131 98.9 78.2 117.4





#71

Bromoform

Concen: 0.702 ug/l

RT: 12.853 min Scan# 1808

Delta R.T. 0.265 min

Lab File: VN078419.D

Acq: 27 Jun 2023 16:17

Instrument :

MSVOA_N

ClientSampleId :

TW-2

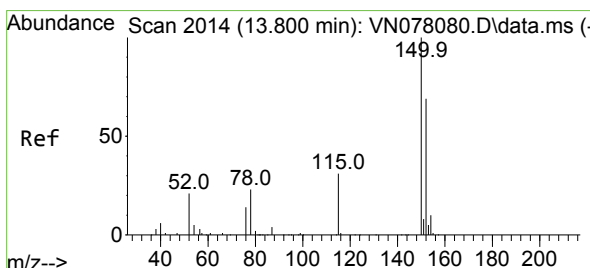
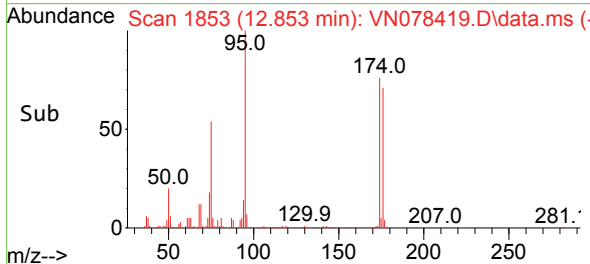
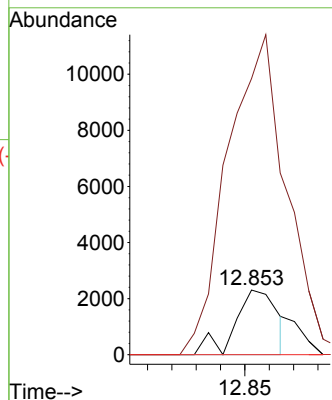
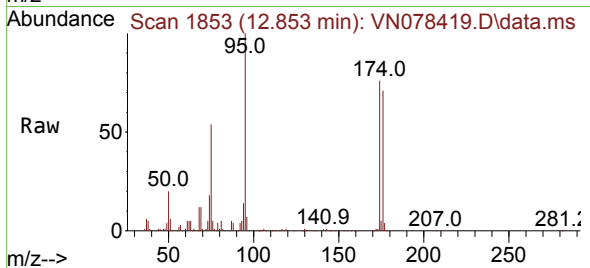
Tgt Ion:173 Resp: 2795

Ion Ratio Lower Upper

173 100

175 581.3 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: VN078419.D

Acq: 27 Jun 2023 16:17

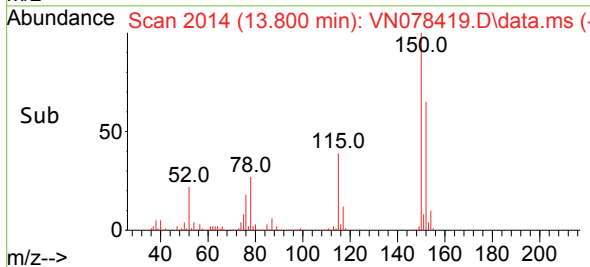
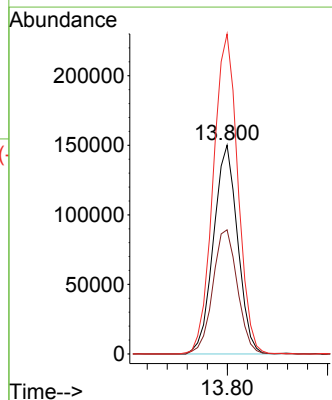
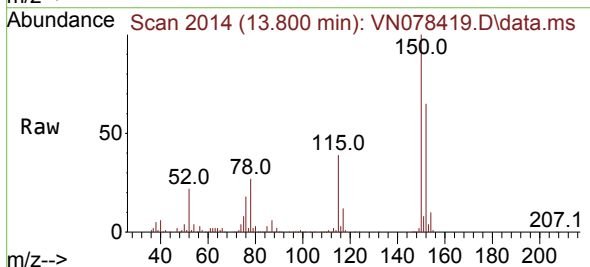
Tgt Ion:152 Resp: 250691

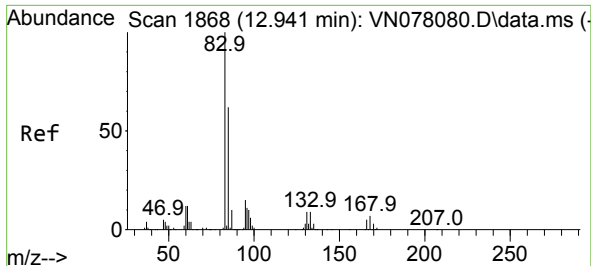
Ion Ratio Lower Upper

152 100

115 60.7 32.3 96.8

150 156.6 0.0 355.8

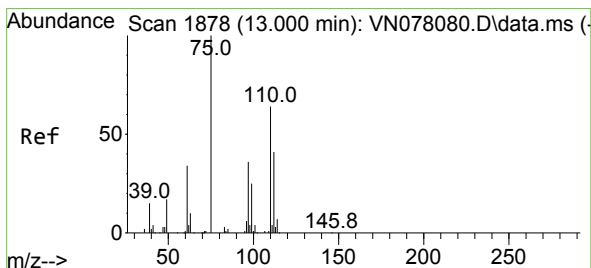
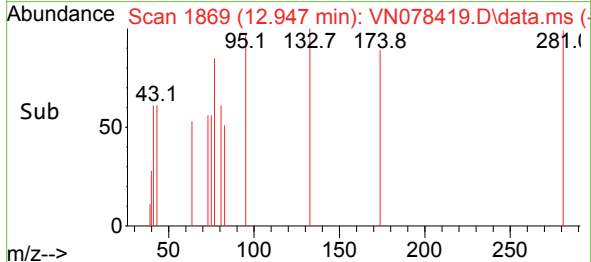
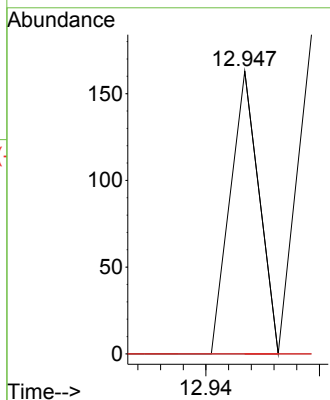
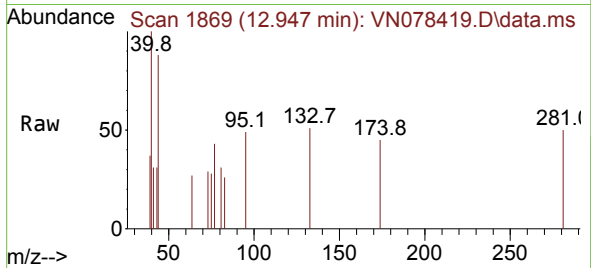




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.947 min Scan# 1869
Delta R.T. 0.006 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

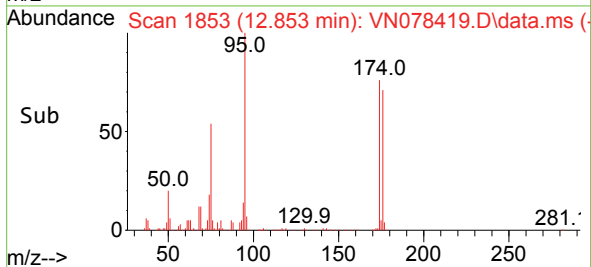
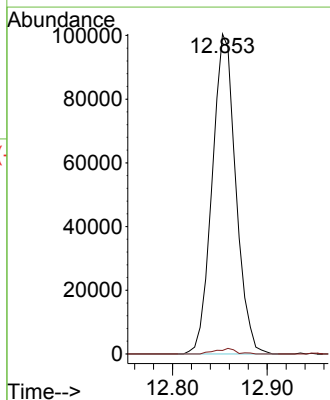
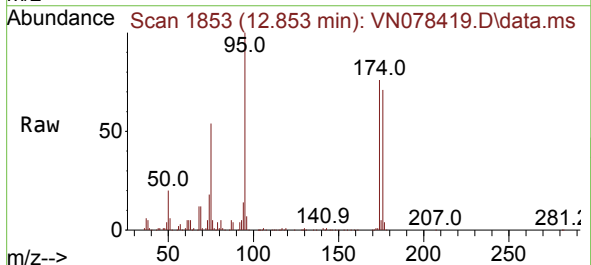
Instrument :
MSVOA_N
ClientSampleId :
TW-2

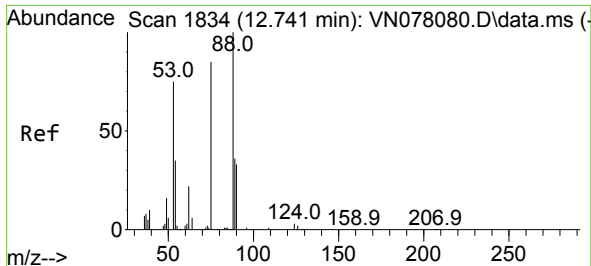
Tgt Ion: 83 Resp: 58
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 29.409 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

Tgt Ion: 75 Resp: 174289
Ion Ratio Lower Upper
75 100
77 1.5 84.5 253.5#

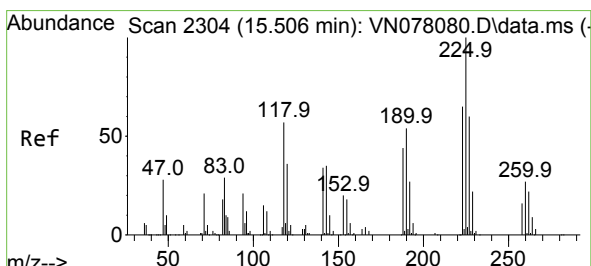
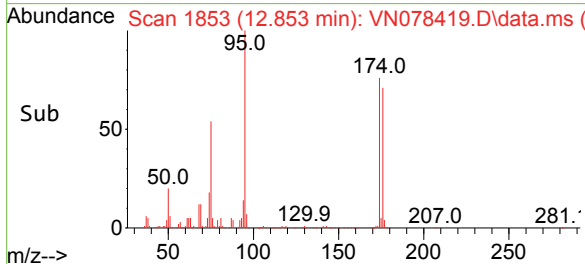
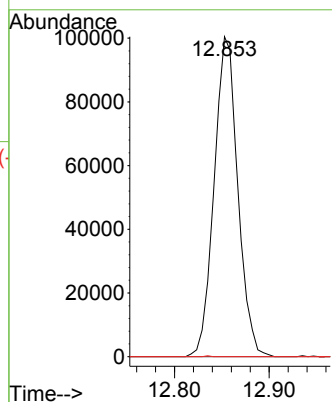
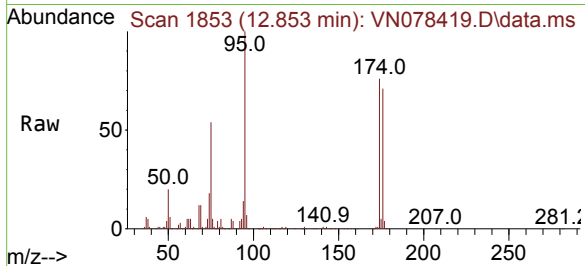




#81
trans-1,4-Dichloro-2-butene
Concen: 90.353 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

Instrument :
MSVOA_N
ClientSampleId :
TW-2

Tgt Ion: 75 Resp: 174289
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.506 min Scan# 2304
Delta R.T. -0.001 min
Lab File: VN078419.D
Acq: 27 Jun 2023 16:17

Tgt Ion: 225 Resp: 199
Ion Ratio Lower Upper
225 100
223 76.4 31.3 93.8
227 186.9 31.9 95.9#

