

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061223\
 Data File : VN078168.D
 Acq On : 12 Jun 2023 15:54
 Operator : JC\MD
 Sample : 03117-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-26OA

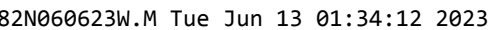
Quant Time: Jun 13 01:34:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.236	168	498812	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	951205	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	870657	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	293784	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	349929	52.615	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.240%			
35) Dibromofluoromethane	8.177	113	310085	51.558	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.120%			
50) Toluene-d8	10.571	98	1132022	48.824	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.640%			
62) 4-Bromofluorobenzene	12.853	95	367611	51.001	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.000%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	895	Below Cal	#	72
5) Bromomethane	2.983	94	1472	0.264	ug/l #	59
6) Chloroethane	3.148	64	1328	0.264	ug/l	90
11) Tert butyl alcohol	5.524	59	784	0.854	ug/l #	72
16) Acetone	4.448	43	31398	16.402	ug/l	98
18) Methyl Acetate	5.053	43	5945	0.675	ug/l #	67
20) Methylene Chloride	5.295	84	11721	1.853	ug/l #	91
25) 2-Butanone	7.571	43	65769	22.342	ug/l #	37
31) Cyclohexane	8.236	56	11919	1.397	ug/l #	18
36) 1,1-Dichloropropene	8.236	75	43451	5.037	ug/l #	49
37) Ethyl Acetate	7.571	43	65769	9.759	ug/l	96
38) Carbon Tetrachloride	8.236	117	56307	6.181	ug/l #	15
43) Isopropyl Acetate	8.700	43	510442	39.604	ug/l #	70
48) Methyl methacrylate	9.671	41	7519	1.390	ug/l #	34
49) 1,4-Dioxane	9.741	88	327	2.876	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	216591	31.913	ug/l #	41
53) t-1,3-Dichloropropene	10.735	75	2348	0.257	ug/l	96
54) cis-1,3-Dichloropropene	10.365	75	112308	11.127	ug/l #	68
57) 1,3-Dichloropropane	11.206	76	12974	1.250	ug/l #	42
59) 2-Hexanone	11.177	43	247134	52.295	ug/l #	19
71) Bromoform	12.853	173	2306	0.521	ug/l #	1
74) N-amyl acetate	12.488	43	2311	0.253	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	12.859	83	644	Below Cal	#	4
76) 1,2,3-Trichloropropane	12.853	75	197046	28.372	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	197046	87.167	ug/l #	15

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

Quant Time: Jun 13 01:34:01 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

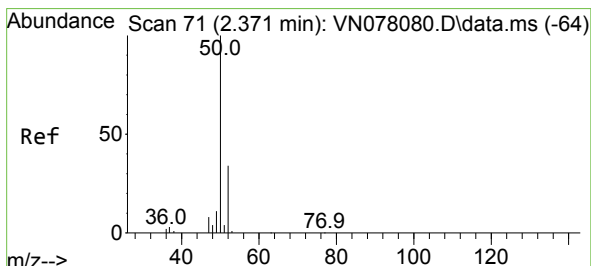
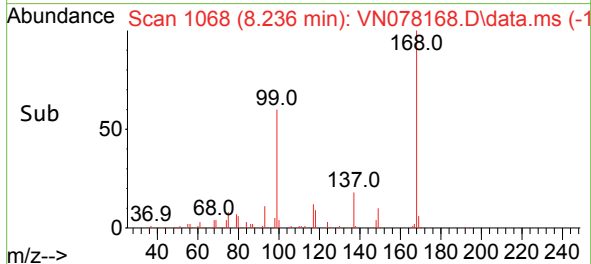
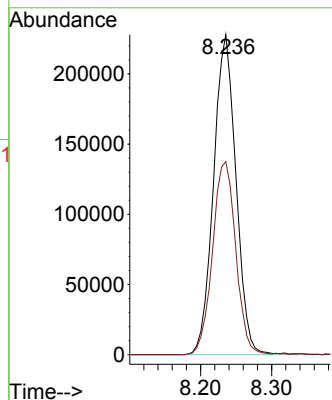
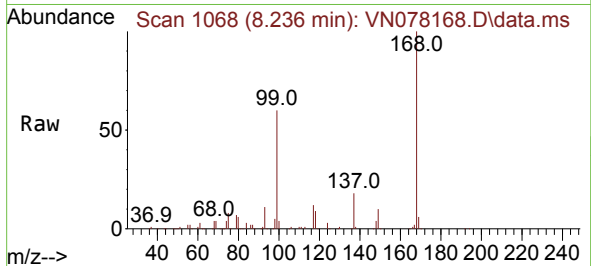




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

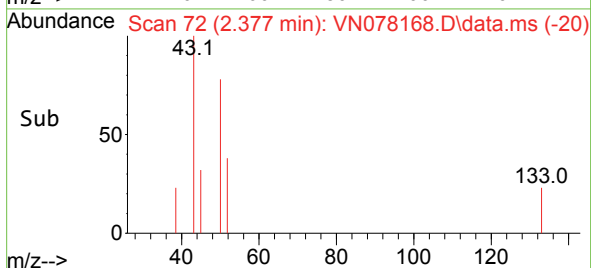
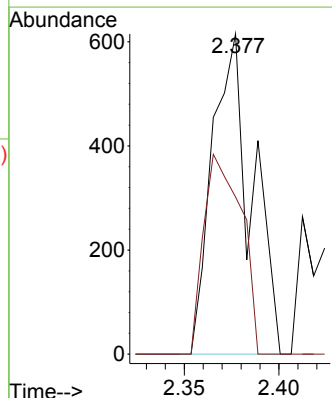
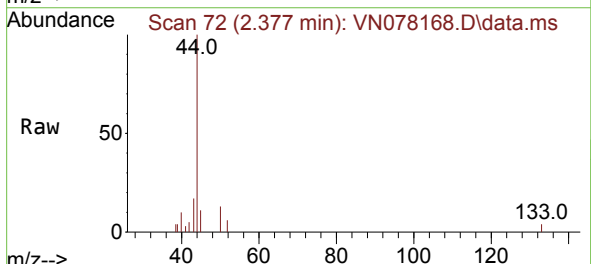
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MSVOA_N
ClientSampleId :
TP-26OA

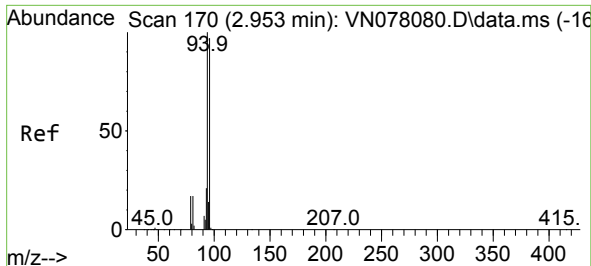
Tgt Ion:168 Resp: 498812
Ion Ratio Lower Upper
168 100
99 60.3 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

Tgt Ion: 50 Resp: 895
Ion Ratio Lower Upper
50 100
52 49.1 26.5 39.7#

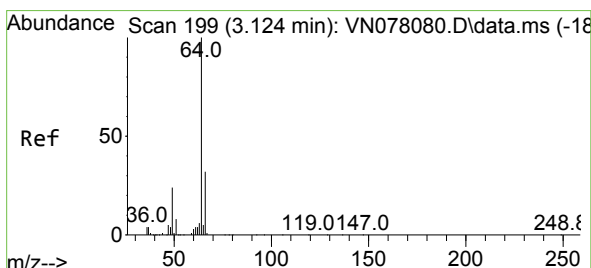
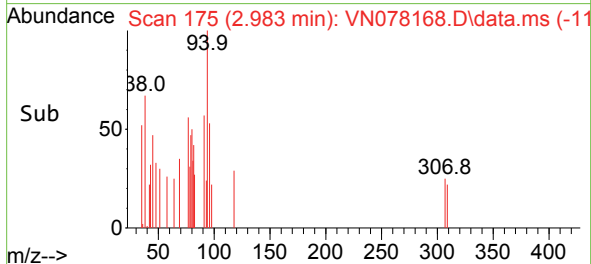
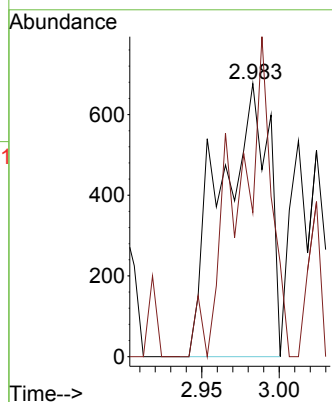
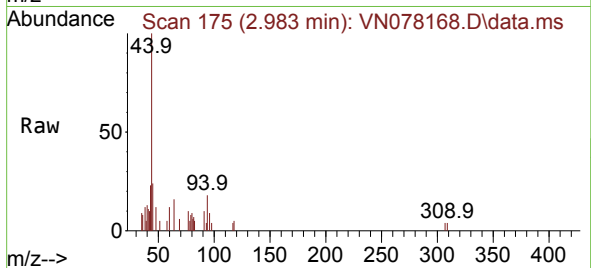




#5
Bromomethane
Concen: 0.264 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.030 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

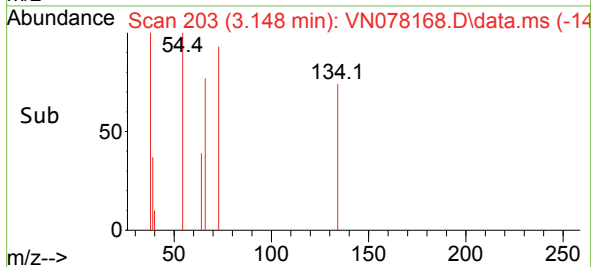
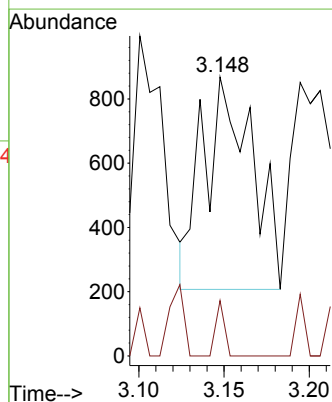
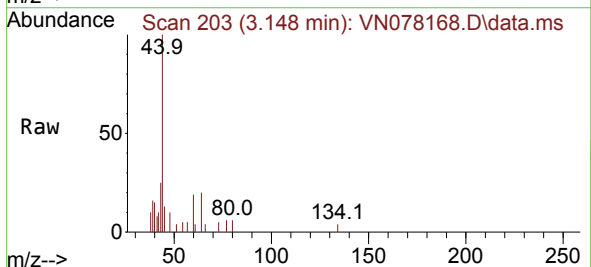
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MSVOA_N
ClientSampleId :
TP-26OA

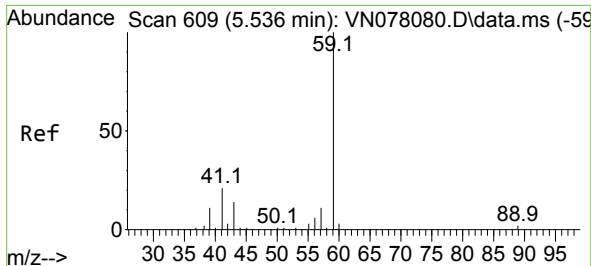
Tgt Ion: 94 Resp: 1472
Ion Ratio Lower Upper
94 100
96 52.7 73.1 109.7#



#6
Chloroethane
Concen: 0.264 ug/l
RT: 3.148 min Scan# 203
Delta R.T. 0.024 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

Tgt Ion: 64 Resp: 1328
Ion Ratio Lower Upper
64 100
66 26.0 25.4 38.2

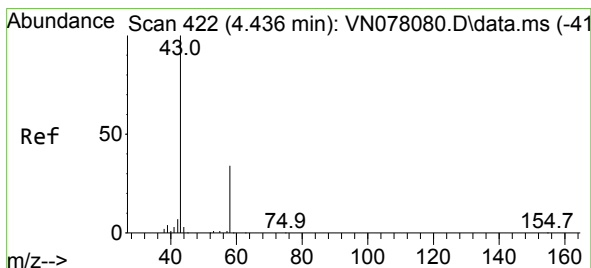
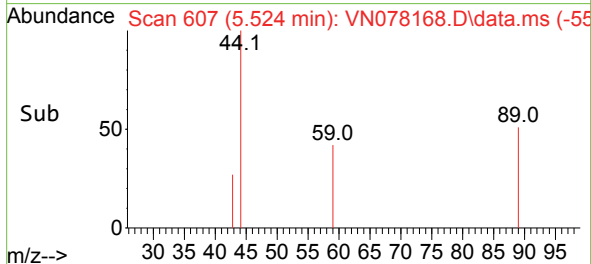
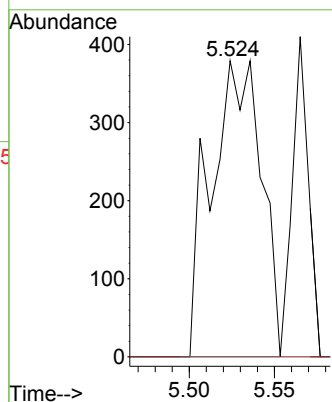
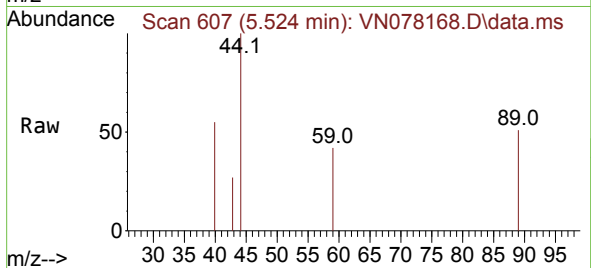




#11
Tert butyl alcohol
Concen: 0.854 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

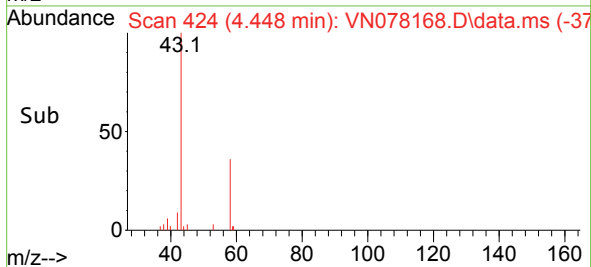
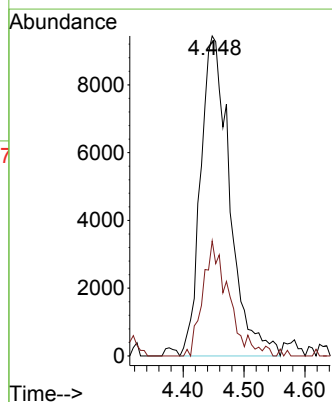
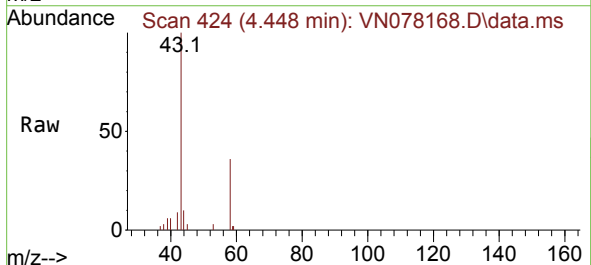
Instrument :
MSVOA_N
ClientSampleId :
TP-26OA

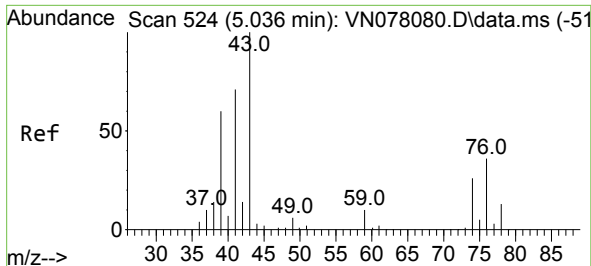
Tgt Ion: 59 Resp: 784
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 16.402 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

Tgt Ion: 43 Resp: 31398
Ion Ratio Lower Upper
43 100
58 36.0 28.0 42.0





#18

Methyl Acetate

Concen: 0.675 ug/l

RT: 5.053 min Scan# 51

Delta R.T. 0.018 min

Lab File: VN078168.D

Acq: 12 Jun 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :

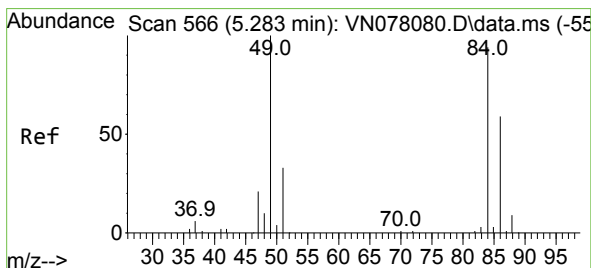
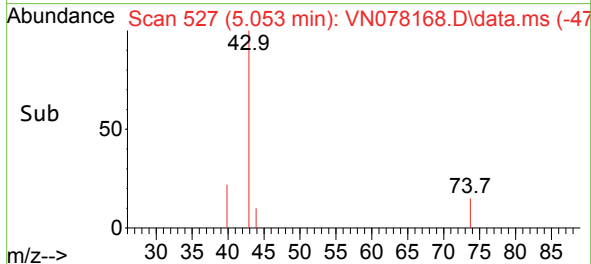
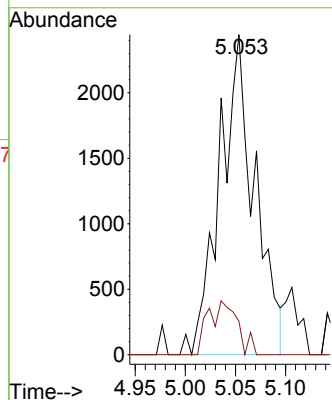
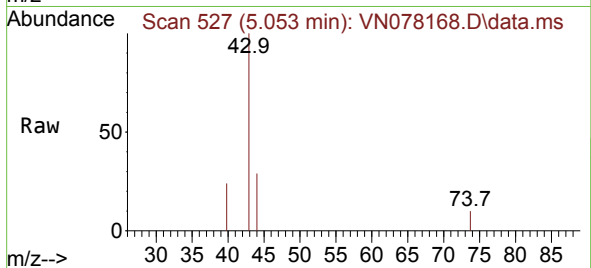
TP-26OA

Tgt Ion: 43 Resp: 5945

Ion Ratio Lower Upper

43 100

74 14.1 26.2 39.4#



#20

Methylene Chloride

Concen: 1.853 ug/l

RT: 5.295 min Scan# 568

Delta R.T. 0.012 min

Lab File: VN078168.D

Acq: 12 Jun 2023 15:54

Tgt Ion: 84 Resp: 11721

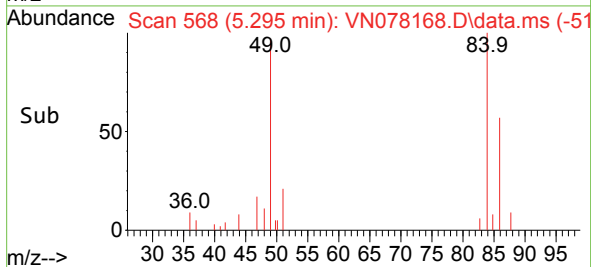
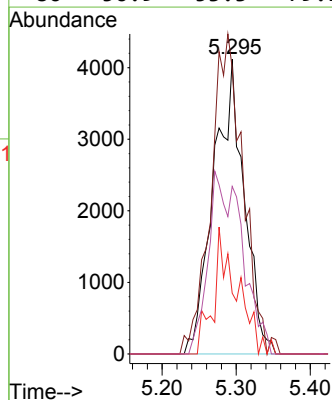
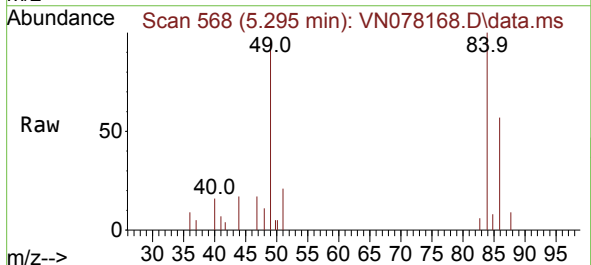
Ion Ratio Lower Upper

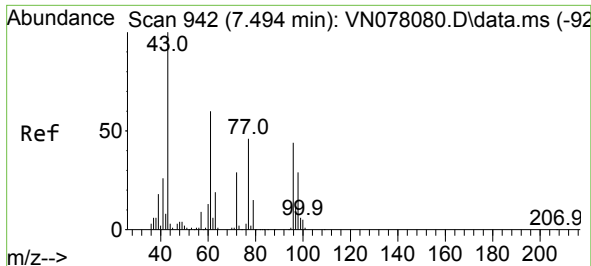
84 100

49 97.0 79.7 119.5

51 20.6 25.2 37.8#

86 56.9 53.3 79.9

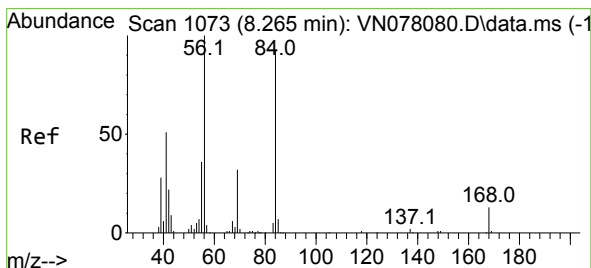
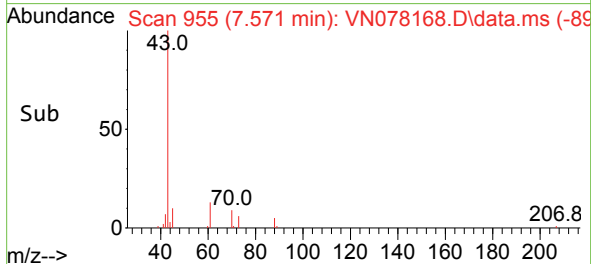
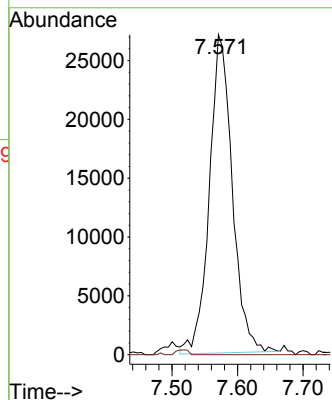
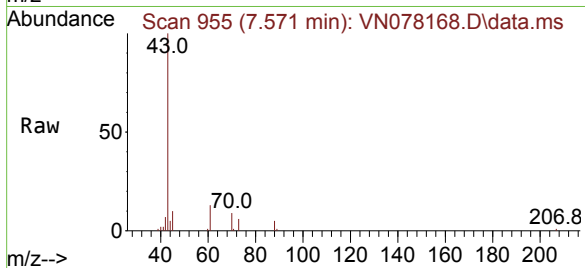




#25
2-Butanone
Concen: 22.342 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.077 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

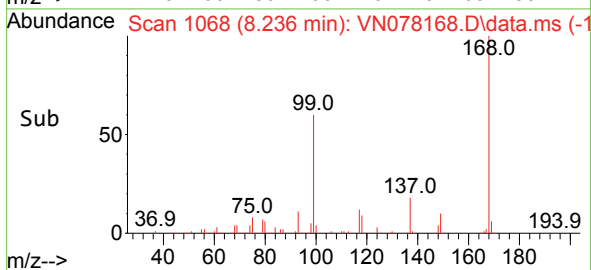
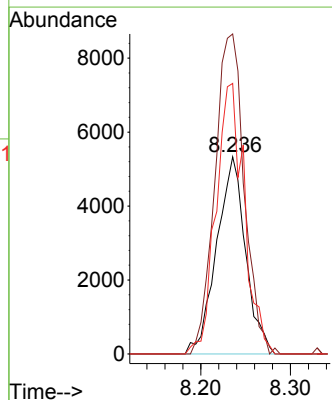
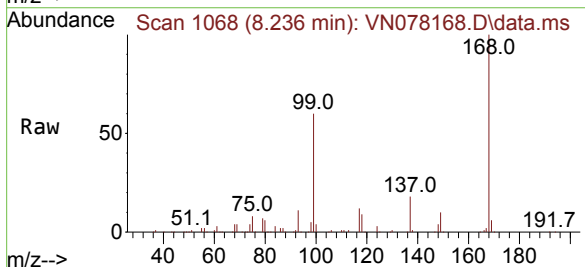
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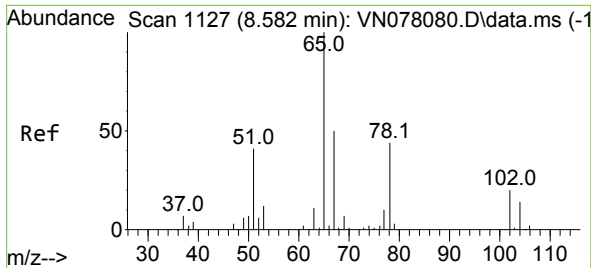
Tgt Ion: 43 Resp: 65769
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#31
Cyclohexane
Concen: 1.397 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

Tgt Ion: 56 Resp: 11919
Ion Ratio Lower Upper
56 100
69 162.4 26.8 40.2#
84 137.2 81.8 122.6#

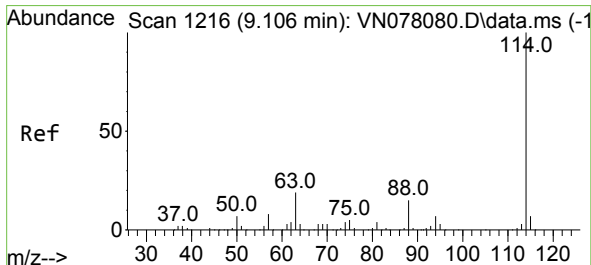
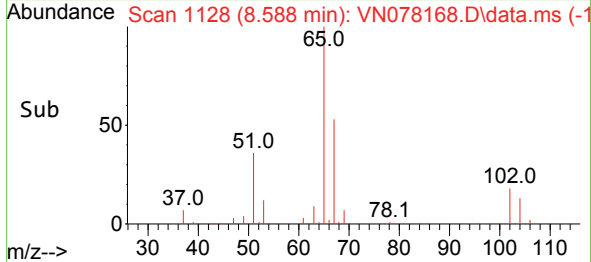
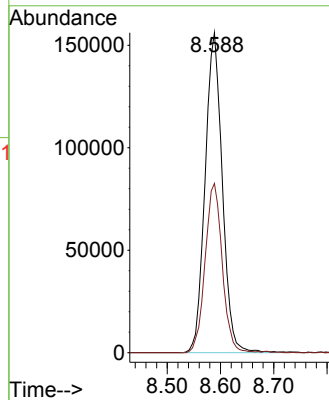
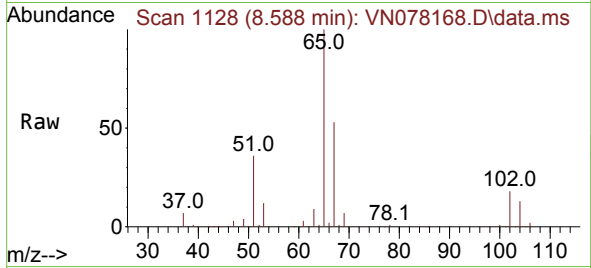




#33
 1,2-Dichloroethane-d4
 Concen: 52.615 ug/l
 RT: 8.588 min Scan# 1127
 Delta R.T. 0.006 min
 Lab File: VN078168.D
 Acq: 12 Jun 2023 15:54

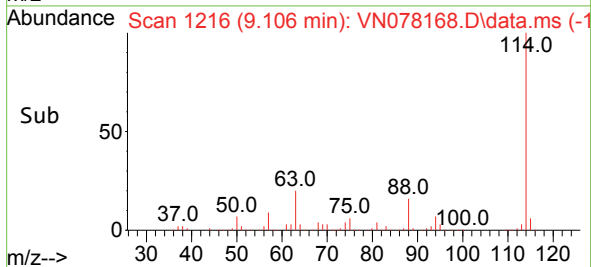
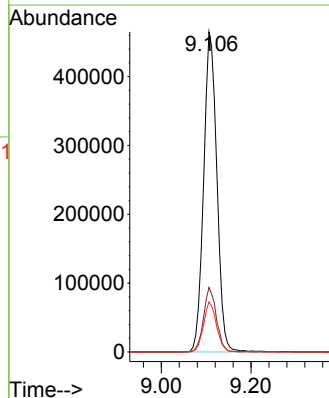
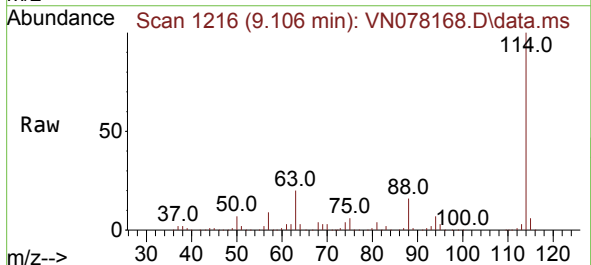
Instrument :
 MSVOA_N
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Tgt Ion: 65 Resp: 349929
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.106 min Scan# 1216
 Delta R.T. 0.000 min
 Lab File: VN078168.D
 Acq: 12 Jun 2023 15:54

Tgt Ion: 114 Resp: 951205
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 36.4
 88 15.7 0.0 30.6

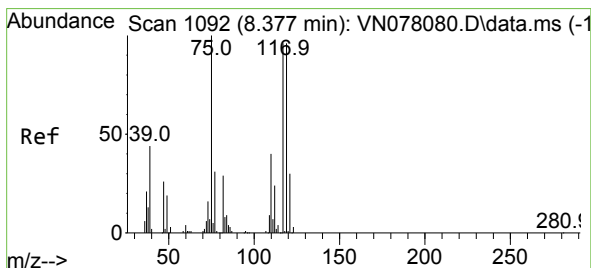
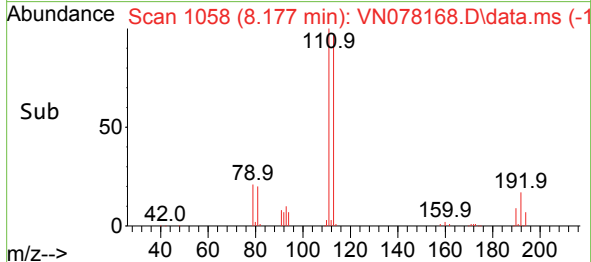
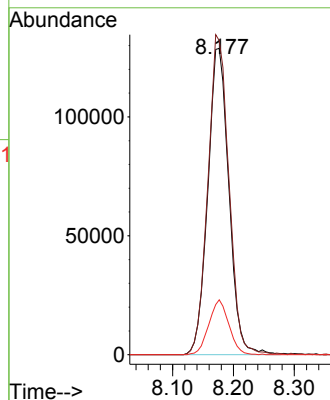
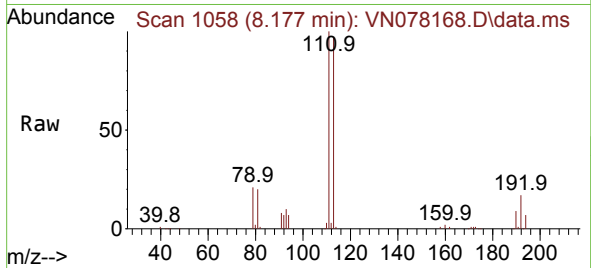




#35
Dibromofluoromethane
Concen: 51.558 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

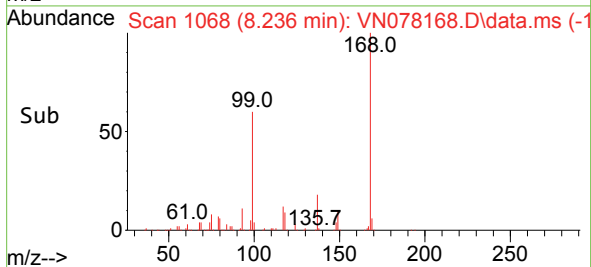
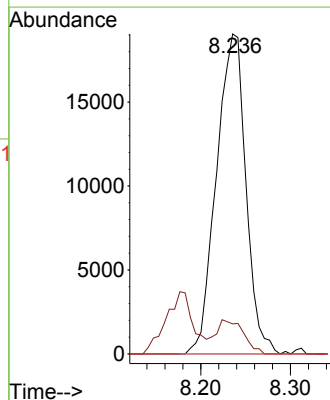
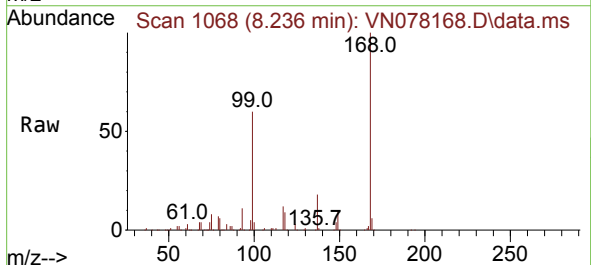
Instrument :
MSVOA_N
ClientSampleId :
TP-26OA

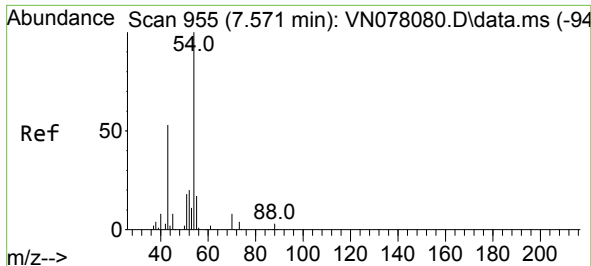
Tgt Ion:113 Resp: 310085
Ion Ratio Lower Upper
113 100
111 103.9 82.6 123.8
192 17.0 12.7 19.1



#36
1,1-Dichloropropene
Concen: 5.037 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

Tgt Ion: 75 Resp: 43451
Ion Ratio Lower Upper
75 100
110 10.1 19.1 57.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 9.759 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN078168.D

Acq: 12 Jun 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :

TP-260A

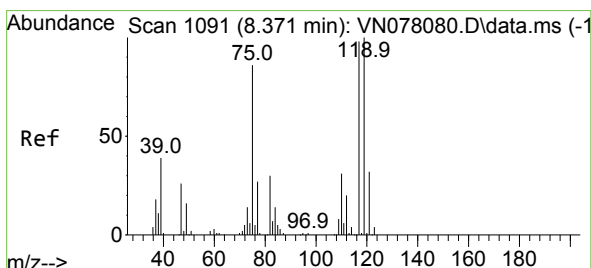
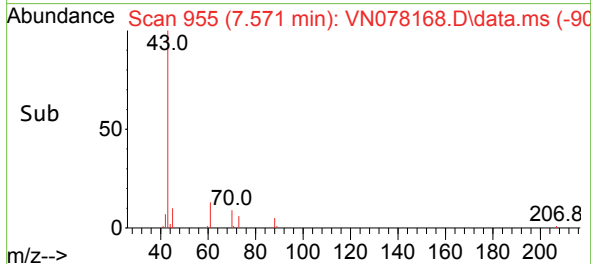
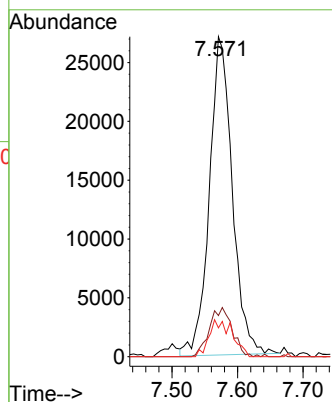
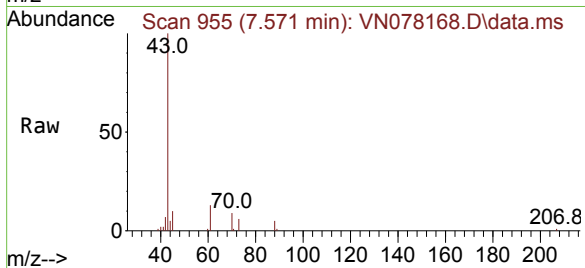
Tgt Ion: 43 Resp: 65769

Ion Ratio Lower Upper

43 100

61 15.4 13.2 19.8

70 11.7 11.3 16.9



#38

Carbon Tetrachloride

Concen: 6.181 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.135 min

Lab File: VN078168.D

Acq: 12 Jun 2023 15:54

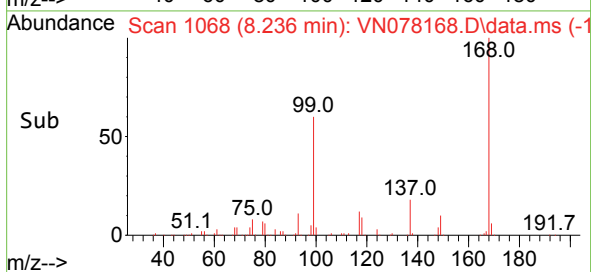
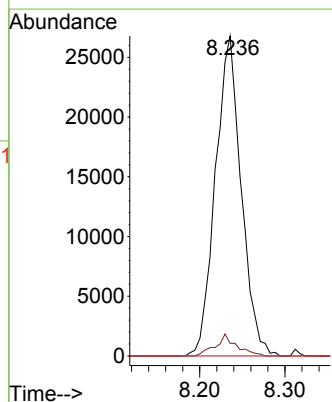
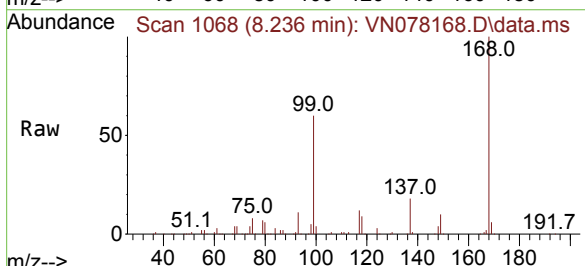
Tgt Ion: 117 Resp: 56307

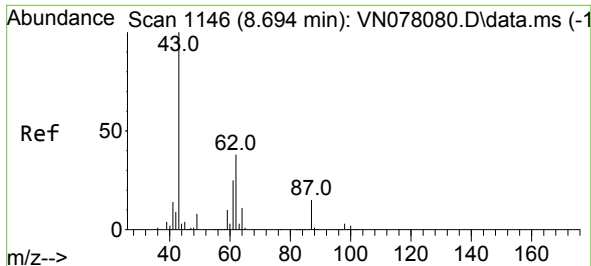
Ion Ratio Lower Upper

117 100

119 3.9 77.3 115.9#

121 0.0 23.3 34.9#

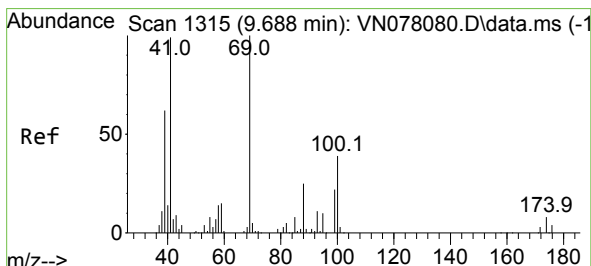
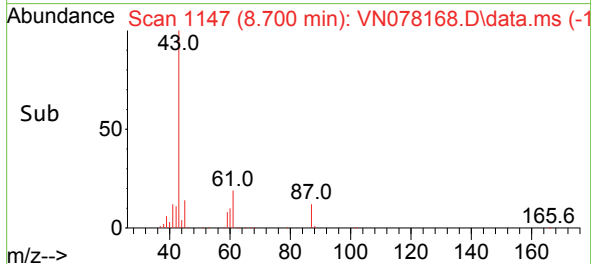
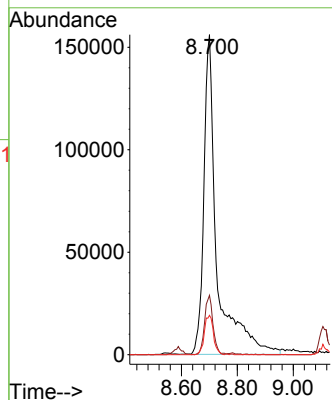
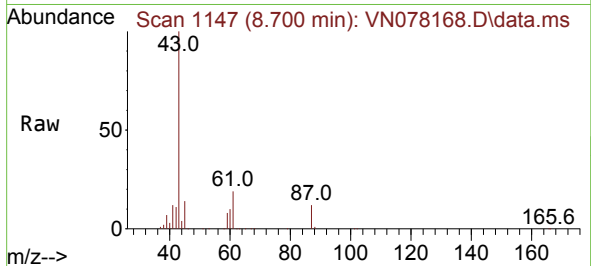




#43
Isopropyl Acetate
Concen: 39.604 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

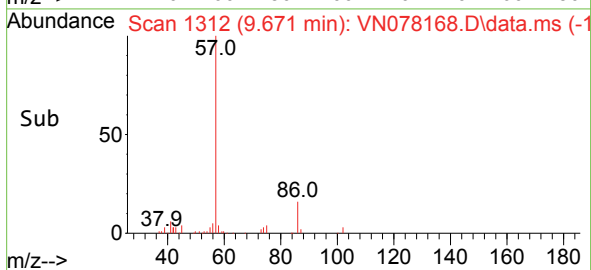
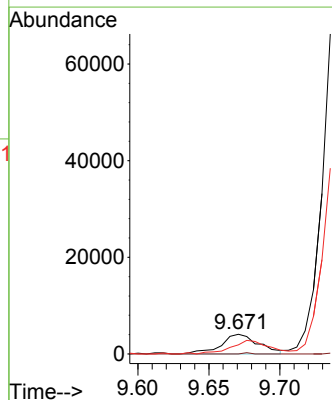
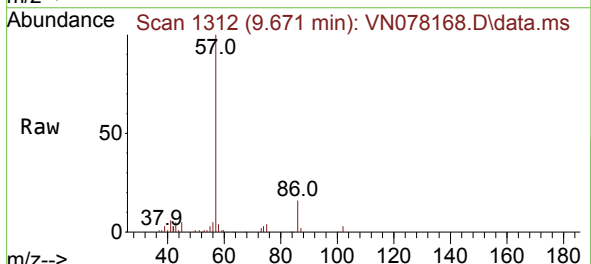
Instrument :
MSVOA_N
ClientSampleId :
TP-260A

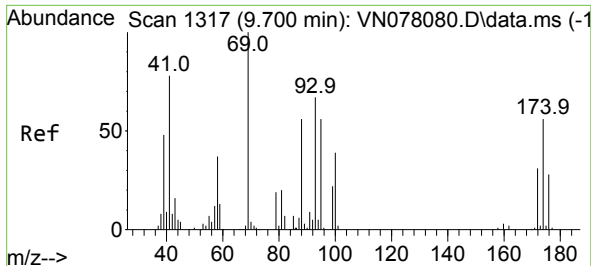
Tgt Ion: 43 Resp: 510442
Ion Ratio Lower Upper
43 100
61 11.9 24.7 37.1#
87 8.5 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.390 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

Tgt Ion: 41 Resp: 7519
Ion Ratio Lower Upper
41 100
69 1.3 90.4 135.6#
39 69.9 54.6 81.8





#49

1,4-Dioxane

Concen: 2.876 ug/l

RT: 9.741 min Scan# 1317

Delta R.T. 0.041 min

Lab File: VN078168.D

Acq: 12 Jun 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :

TP-26OA

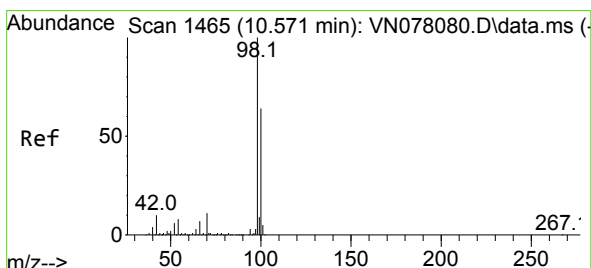
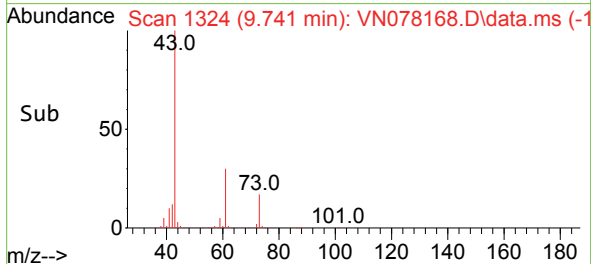
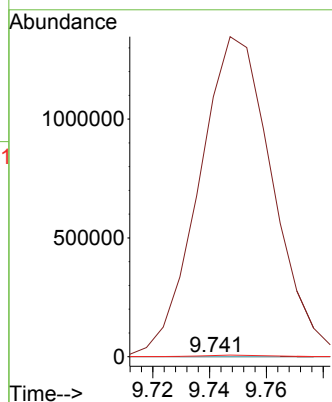
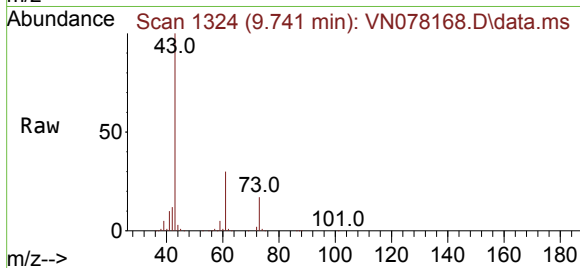
Tgt Ion: 88 Resp: 327

Ion Ratio Lower Upper

88 100

43 752361.8 17.0 25.6#

58 3629.1 47.0 70.4#



#50

Toluene-d8

Concen: 48.824 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078168.D

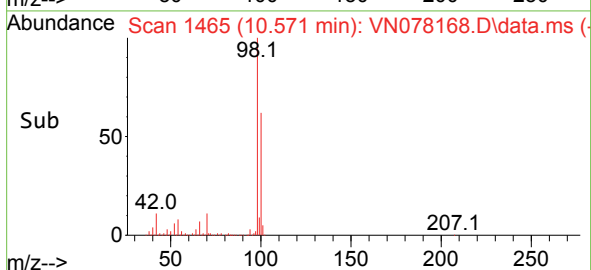
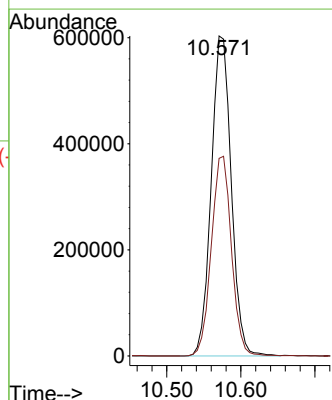
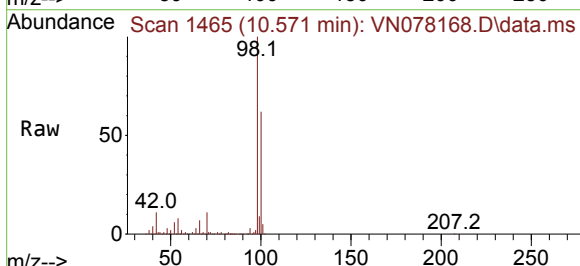
Acq: 12 Jun 2023 15:54

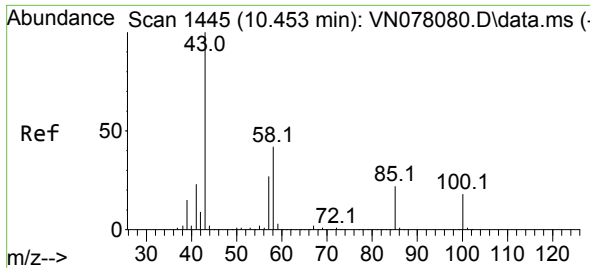
Tgt Ion: 98 Resp: 1132022

Ion Ratio Lower Upper

98 100

100 62.8 52.0 78.0

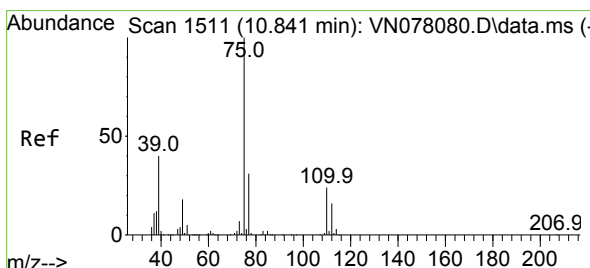
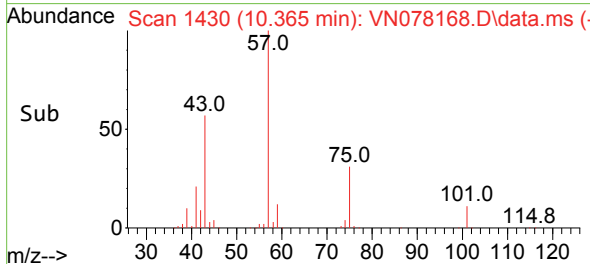
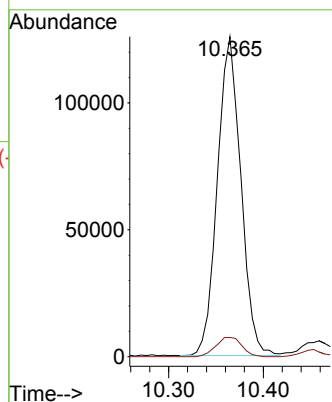
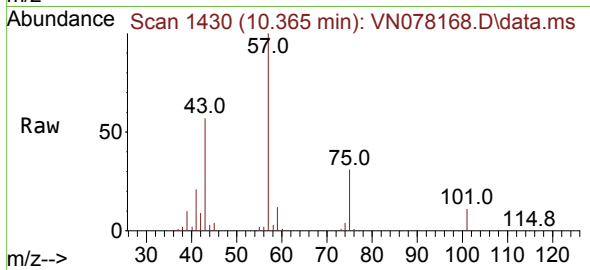




#51
4-Methyl-2-Pentanone
Concen: 31.913 ug/l
RT: 10.365 min Scan# 1445
Delta R.T. -0.088 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

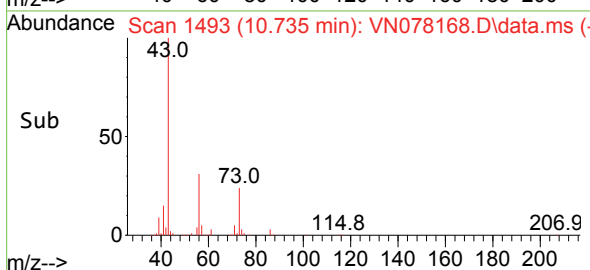
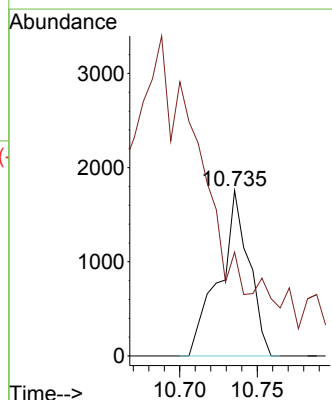
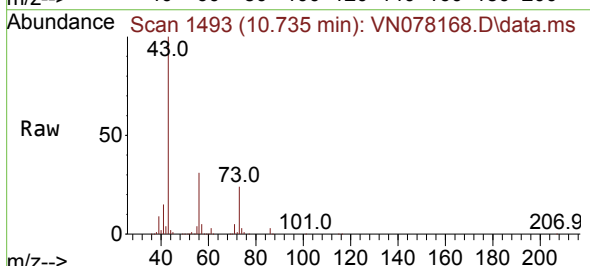
Instrument :
MSVOA_N
ClientSampleId :
TP-26OA

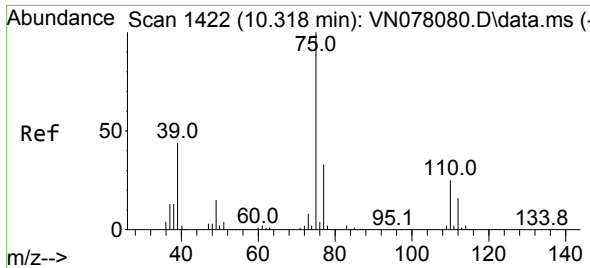
Tgt Ion: 43 Resp: 216591
Ion Ratio Lower Upper
43 100
58 6.7 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.257 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.106 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

Tgt Ion: 75 Resp: 2348
Ion Ratio Lower Upper
75 100
77 33.8 25.4 38.0

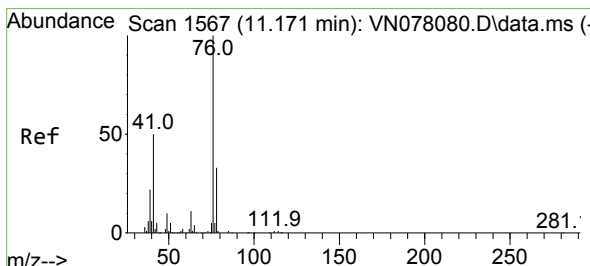
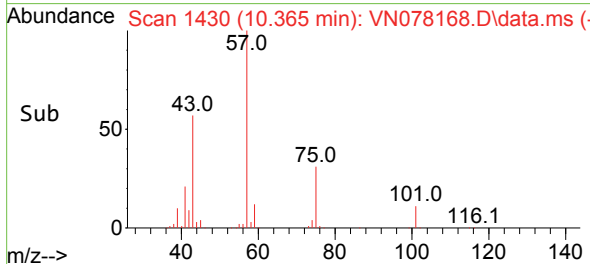
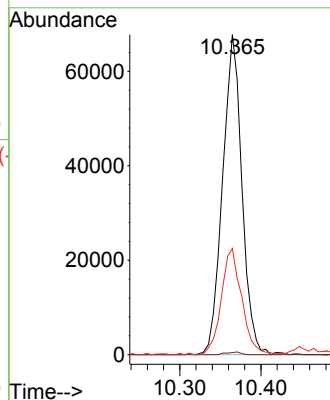
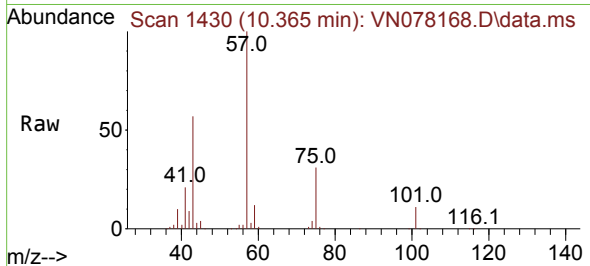




#54
 cis-1,3-Dichloropropene
 Concen: 11.127 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078168.D
 Acq: 12 Jun 2023 15:54

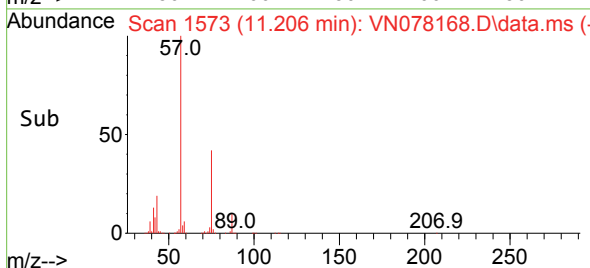
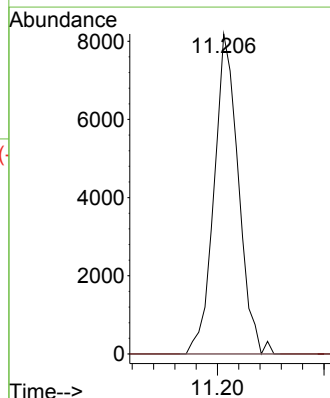
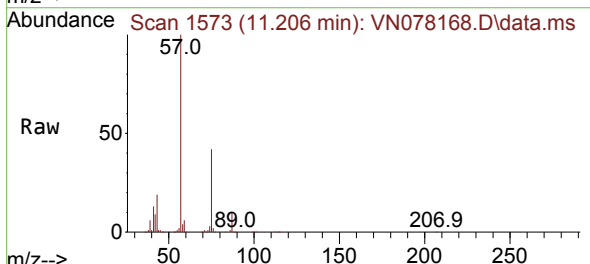
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-26OA

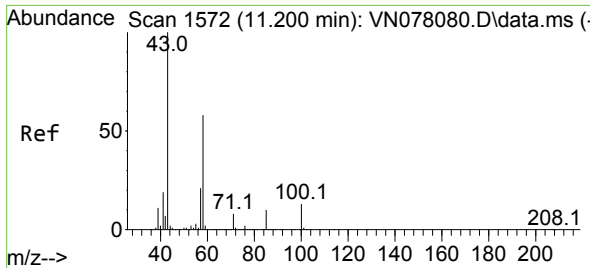
Tgt Ion: 75 Resp: 112308
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.1 39.1#
 39 32.8 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 1.250 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.035 min
 Lab File: VN078168.D
 Acq: 12 Jun 2023 15:54

Tgt Ion: 76 Resp: 12974
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

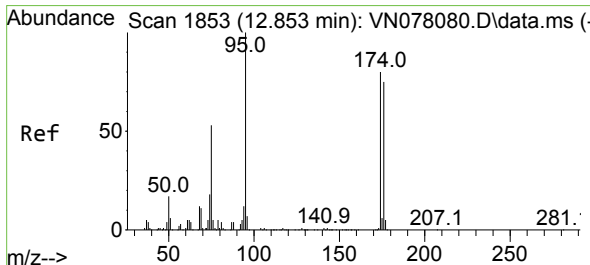
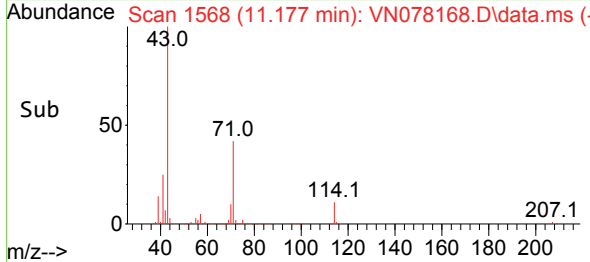
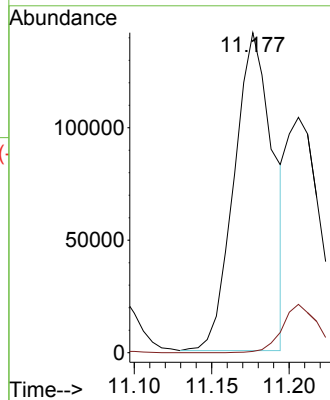
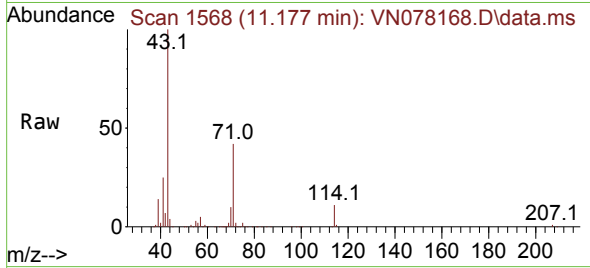




#59
2-Hexanone
Concen: 52.295 ug/l
RT: 11.177 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

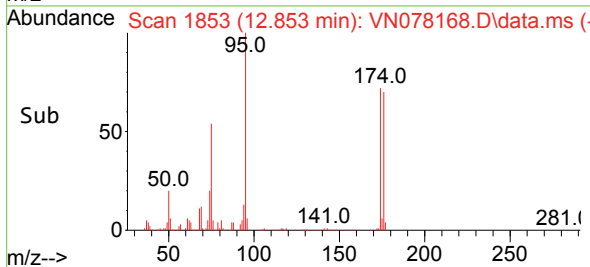
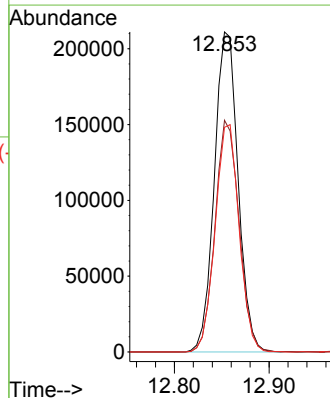
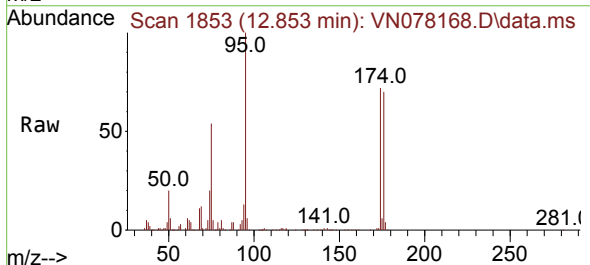
Instrument :
MSVOA_N
ClientSampleId :
TP-26OA

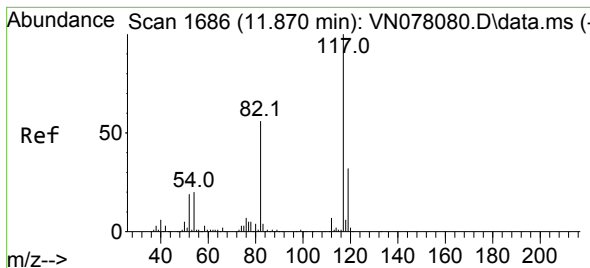
Tgt Ion: 43 Resp: 247134
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 51.001 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

Tgt Ion: 95 Resp: 367611
Ion Ratio Lower Upper
95 100
174 73.4 0.0 143.8
176 71.9 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078168.D

Acq: 12 Jun 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :

TP-26OA

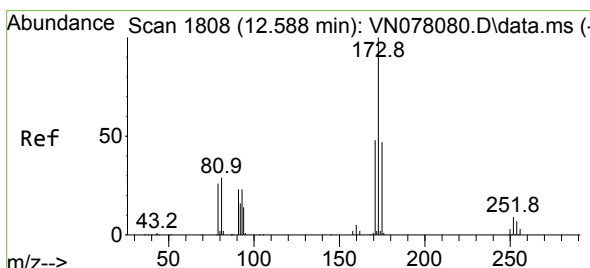
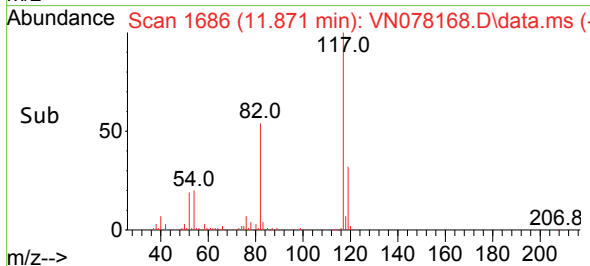
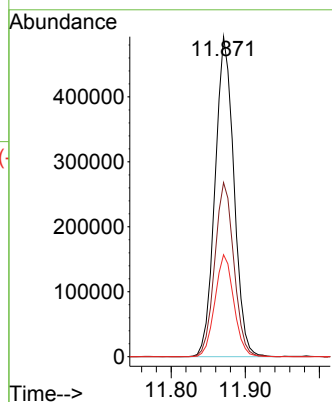
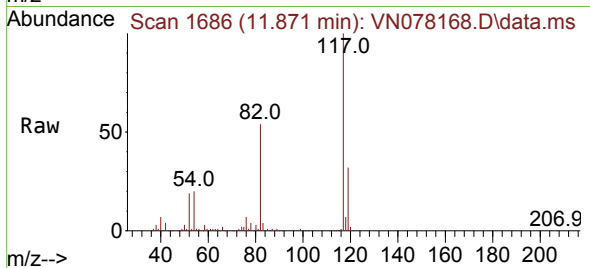
Tgt Ion:117 Resp: 870657

Ion Ratio Lower Upper

117 100

82 54.4 44.0 66.0

119 31.9 25.6 38.4



#71

Bromoform

Concen: 0.521 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.265 min

Lab File: VN078168.D

Acq: 12 Jun 2023 15:54

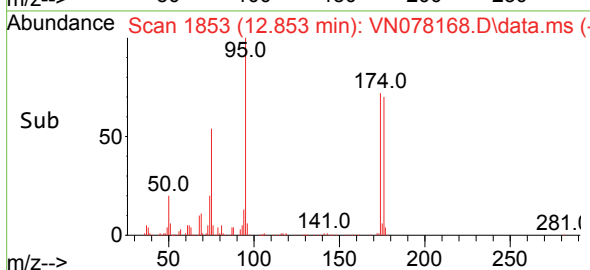
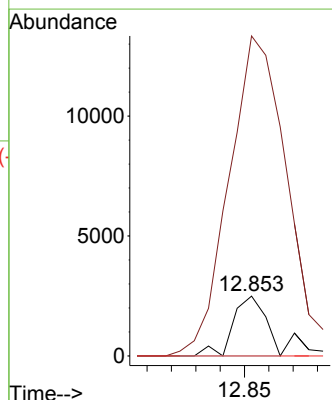
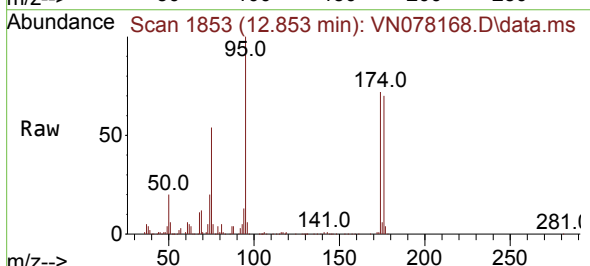
Tgt Ion:173 Resp: 2306

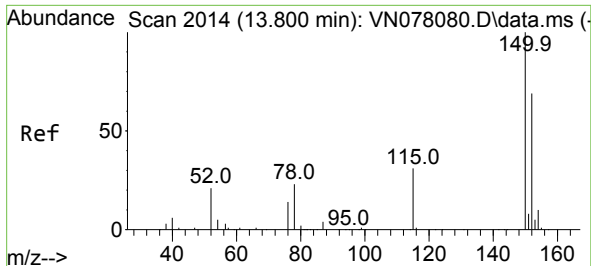
Ion Ratio Lower Upper

173 100

175 820.9 24.3 73.0#

254 0.0 0.0 0.0

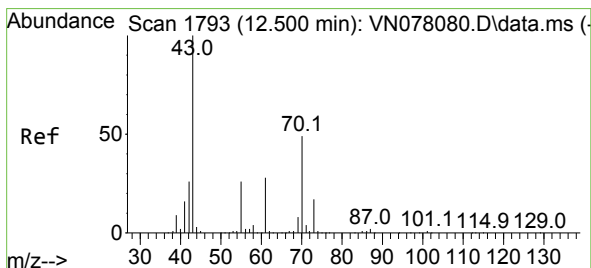
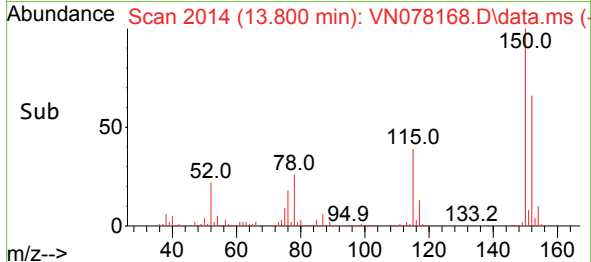
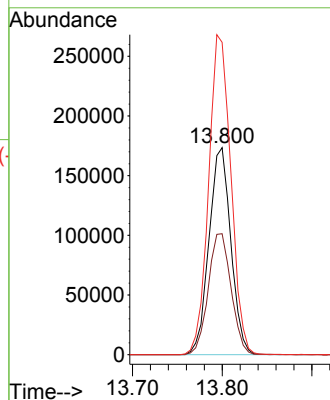
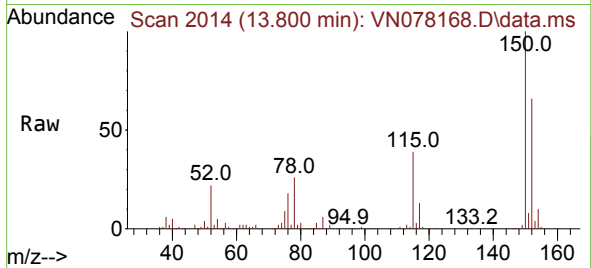




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. 0.000 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

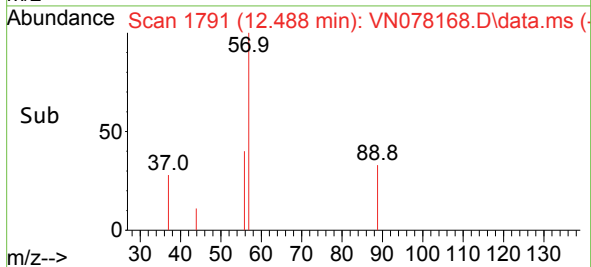
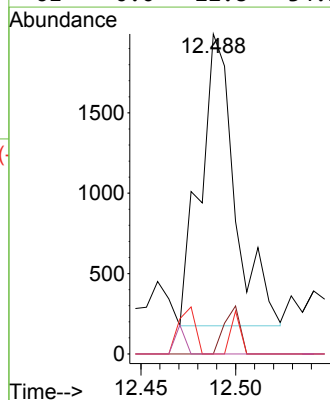
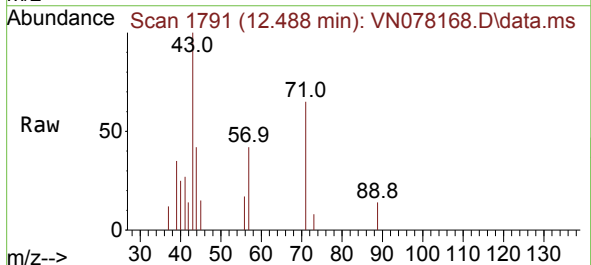
Instrument :
MSVOA_N
ClientSampleId :
TP-260A

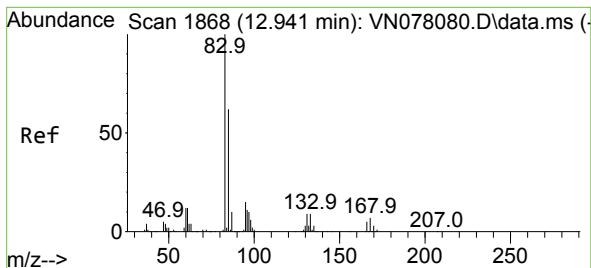
Tgt Ion:152 Resp: 293784
Ion Ratio Lower Upper
152 100
115 61.0 32.3 96.8
150 157.0 0.0 355.8



#74
N-ethyl acetate
Concen: 0.253 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN078168.D
Acq: 12 Jun 2023 15:54

Tgt Ion: 43 Resp: 2311
Ion Ratio Lower Upper
43 100
70 7.5 43.4 65.2#
55 4.1 21.4 32.0#
61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.859 min Scan# 1854

Delta R.T. -0.082 min

Lab File: VN078168.D

Acq: 12 Jun 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :

TP-26OA

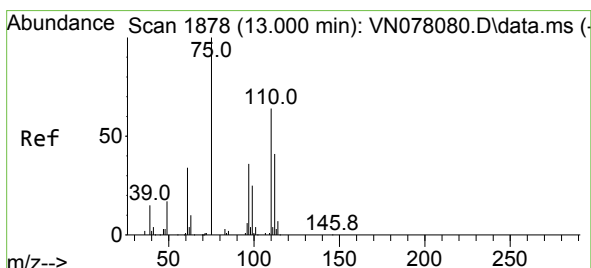
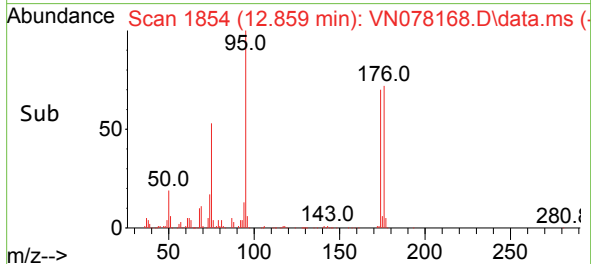
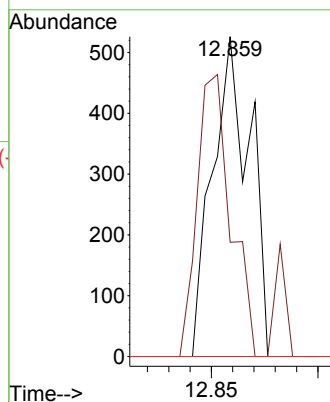
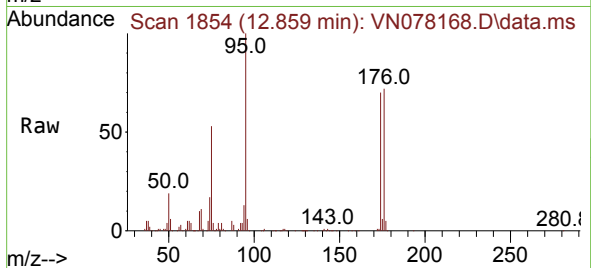
Tgt Ion: 83 Resp: 644

Ion Ratio Lower Upper

83 100

131 79.2 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 28.372 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078168.D

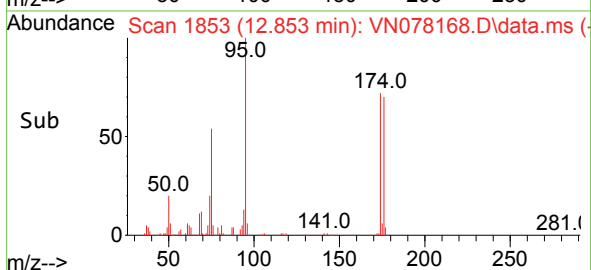
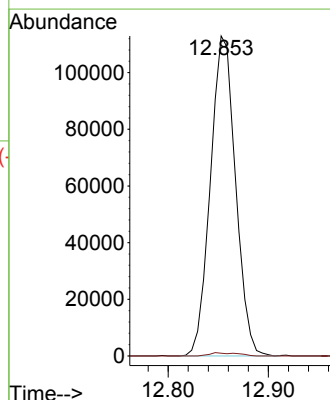
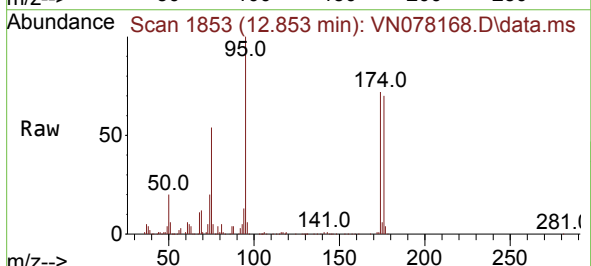
Acq: 12 Jun 2023 15:54

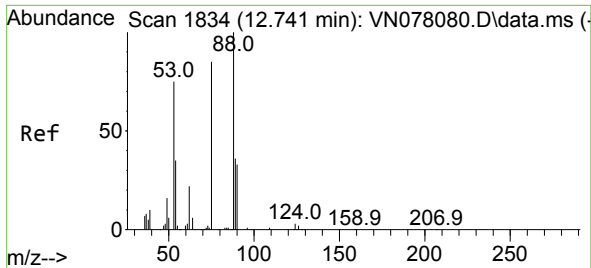
Tgt Ion: 75 Resp: 197046

Ion Ratio Lower Upper

75 100

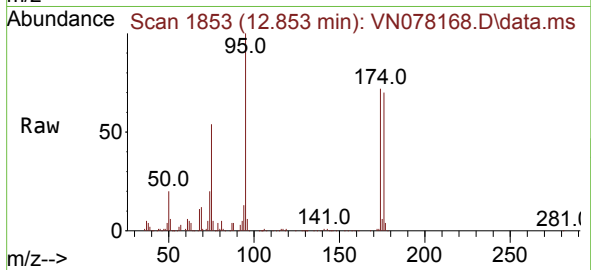
77 1.1 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.167 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078168.D
 Acq: 12 Jun 2023 15:54

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-26OA



Tgt Ion: 75 Resp: 197046
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

