

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078336.D
 Acq On : 21 Jun 2023 20:47
 Operator : JC\MD
 Sample : 03337-17
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-15

Quant Time: Jun 22 04:56:06 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)

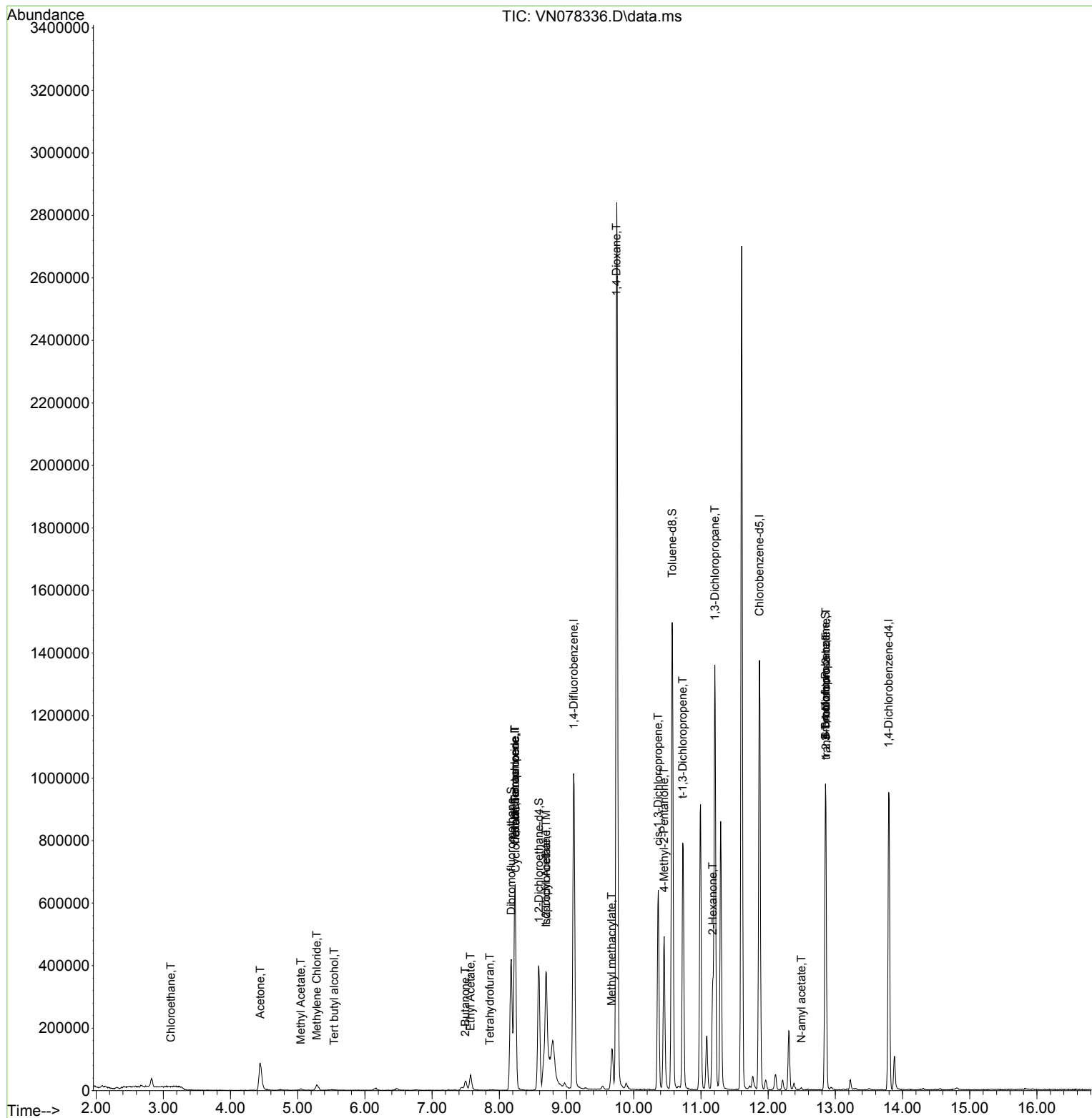
Internal Standards						
1) Pentafluorobenzene	8.236	168	468812	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	906141	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	835670	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	266552	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	325472	52.070	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.140%	
35) Dibromofluoromethane	8.177	113	307722	53.709	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.420%	
50) Toluene-d8	10.571	98	1074790	48.661	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 97.320%	
62) 4-Bromofluorobenzene	12.853	95	340676	49.615	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 99.220%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1123	Below Cal	#	42
6) Chloroethane	3.112	64	1120	0.237	ug/l #	87
11) Tert butyl alcohol	5.542	59	1062	1.230	ug/l #	72
16) Acetone	4.442	43	165146	91.790	ug/l	96
18) Methyl Acetate	5.048	43	8100	0.978	ug/l #	75
20) Methylene Chloride	5.283	84	13099	2.203	ug/l	90
25) 2-Butanone	7.494	43	45292	16.370	ug/l	93
29) Tetrahydrofuran	7.859	42	466	0.252	ug/l #	54
31) Cyclohexane	8.241	56	10936	1.364	ug/l #	46
36) 1,1-Dichloropropene	8.236	75	40679	4.950	ug/l #	49
37) Ethyl Acetate	7.571	43	70606	10.998	ug/l	96
38) Carbon Tetrachloride	8.230	117	51371	5.920	ug/l #	14
42) 1,2-Dichloroethane	8.694	62	2862	0.340	ug/l #	73
43) Isopropyl Acetate	8.694	43	511516	41.661	ug/l #	72
48) Methyl methacrylate	9.671	41	8394	1.629	ug/l #	30
49) 1,4-Dioxane	9.741	88	331	3.056	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	324463	50.184	ug/l	90
53) t-1,3-Dichloropropene	10.730	75	2584	0.297	ug/l #	73
54) cis-1,3-Dichloropropene	10.365	75	117006	12.169	ug/l #	67
57) 1,3-Dichloropropane	11.206	76	14138	1.429	ug/l #	42
59) 2-Hexanone	11.177	43	268387	59.617	ug/l #	19
71) Bromoform	12.853	173	2993	0.705	ug/l #	1
74) N-amyl acetate	12.494	43	2128	0.256	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.859	83	478	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.859	75	182615	28.980	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	182615	89.036	ug/l #	15

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

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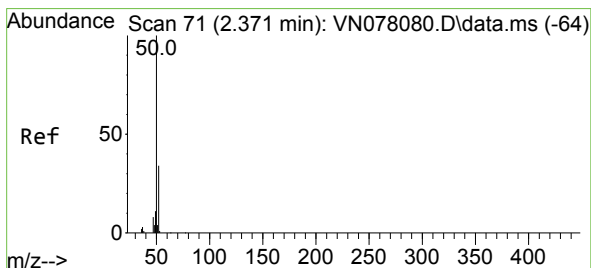
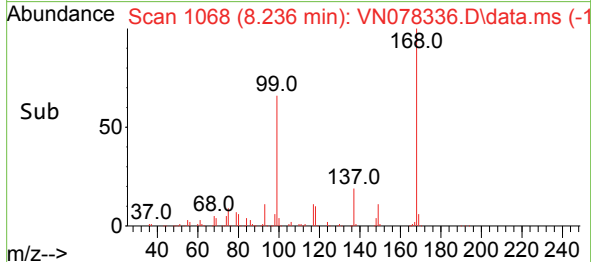
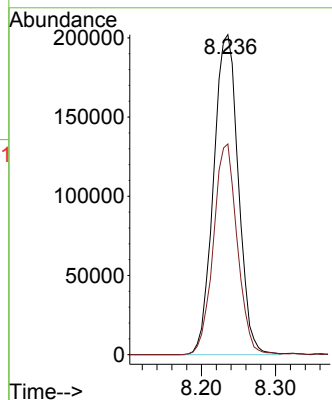
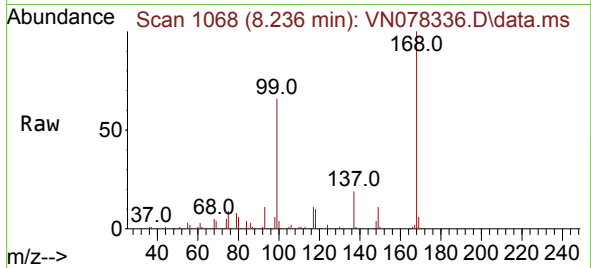




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. 0.001 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

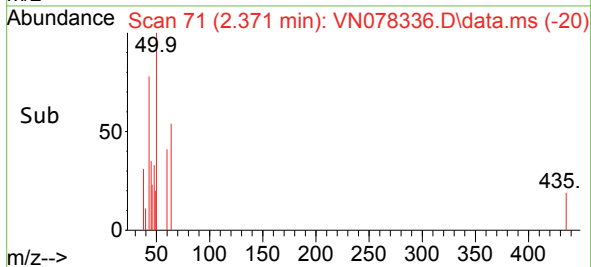
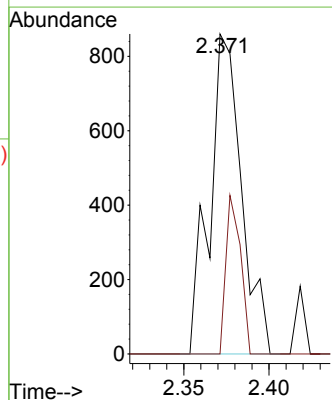
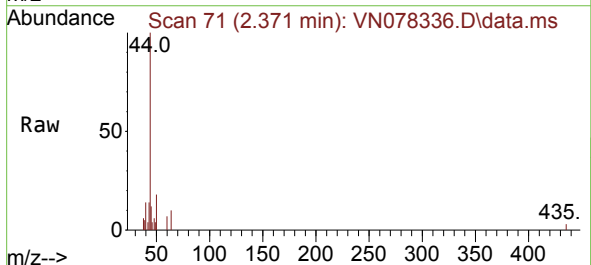
Instrument :
MSVOA_N
ClientSampleId :
WC-15

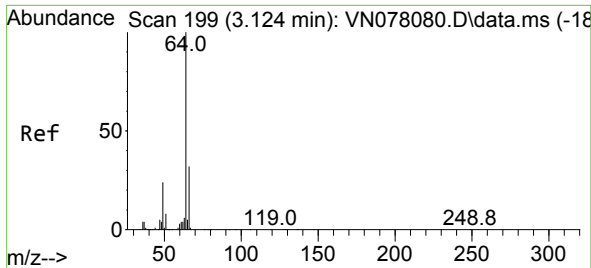
Tgt Ion:168 Resp: 468812
Ion Ratio Lower Upper
168 100
99 65.9 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

Tgt Ion: 50 Resp: 1123
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

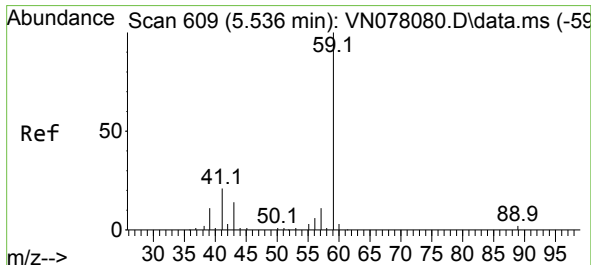
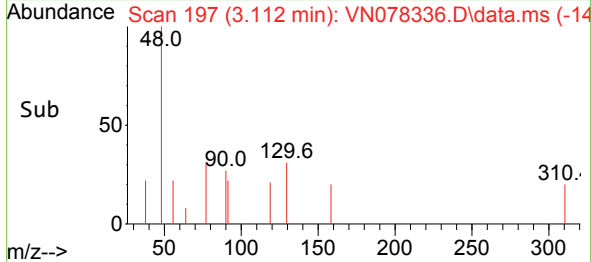
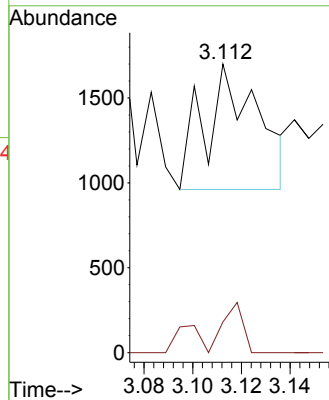
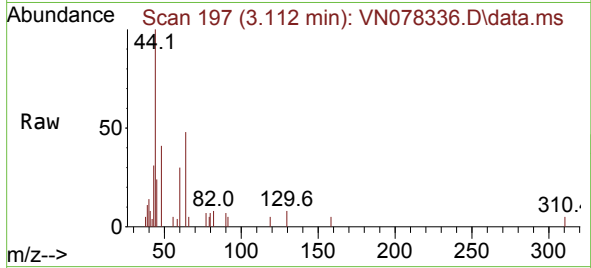




#6
Chloroethane
Concen: 0.237 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.012 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

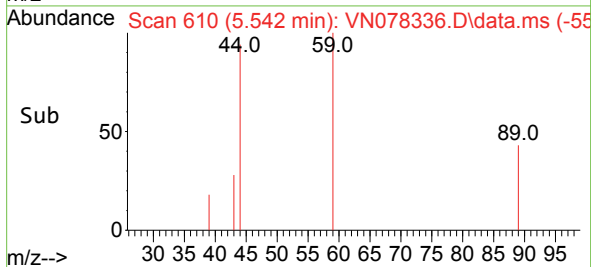
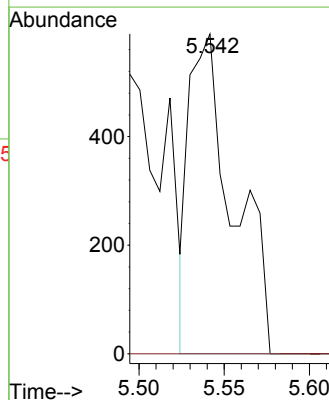
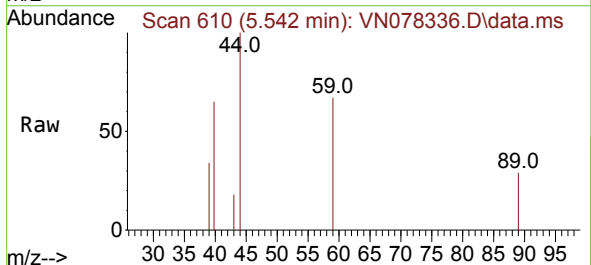
Instrument :
MSVOA_N
ClientSampleId :
WC-15

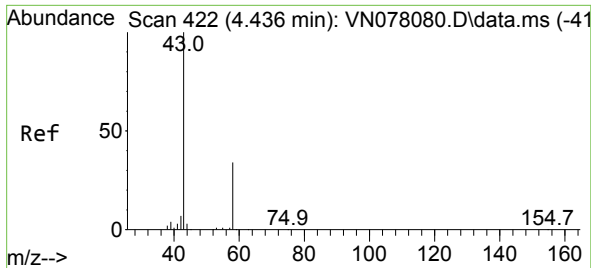
Tgt Ion: 64 Resp: 1120
Ion Ratio Lower Upper
64 100
66 24.5 25.4 38.2#



#11
Tert butyl alcohol
Concen: 1.230 ug/l
RT: 5.542 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

Tgt Ion: 59 Resp: 1062
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

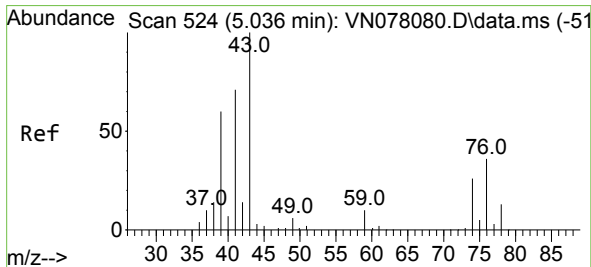
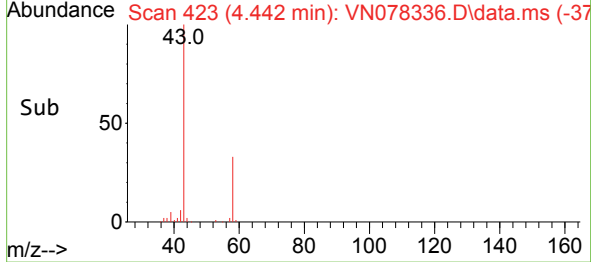
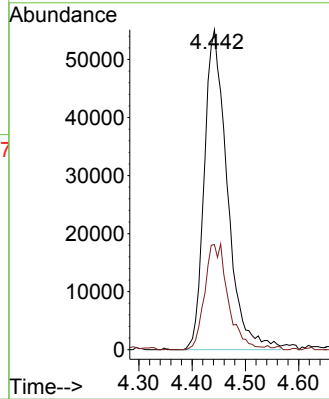
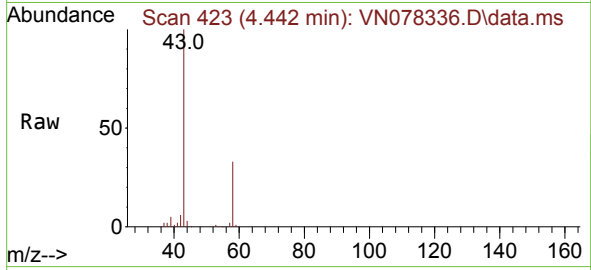




#16
Acetone
Concen: 91.790 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

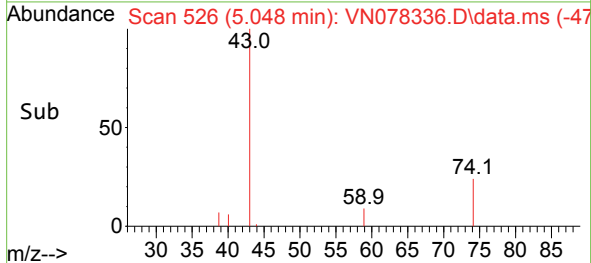
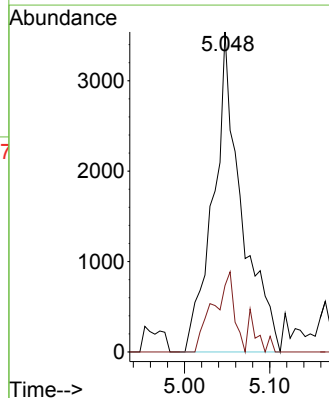
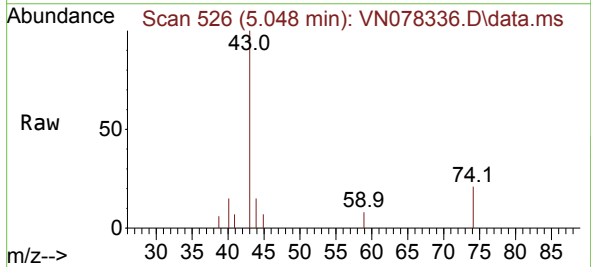
Instrument :
MSVOA_N
ClientSampleId :
WC-15

Tgt Ion: 43 Resp: 165146
Ion Ratio Lower Upper
43 100
58 32.9 28.0 42.0



#18
Methyl Acetate
Concen: 0.978 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.012 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

Tgt Ion: 43 Resp: 8100
Ion Ratio Lower Upper
43 100
74 18.6 26.2 39.4#

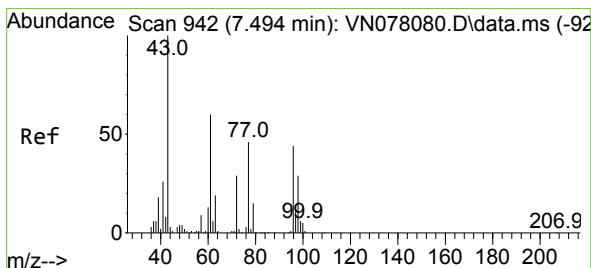
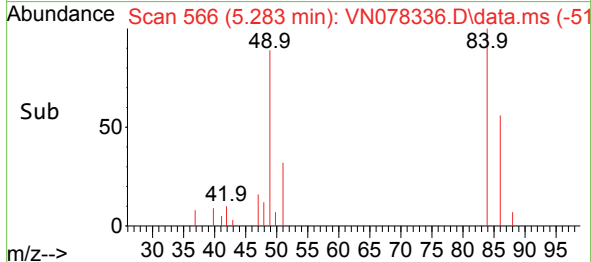
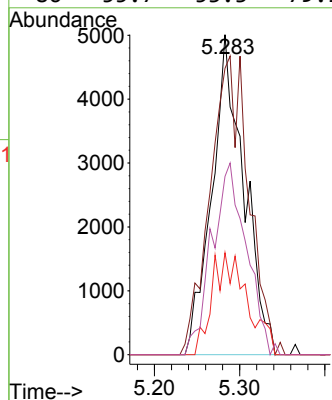
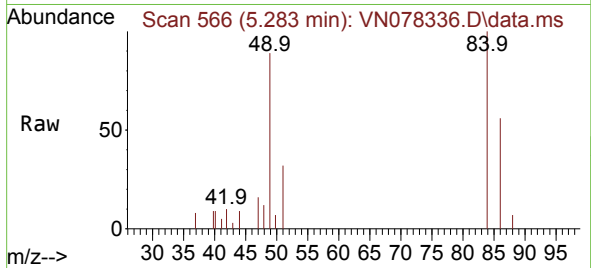




#20
Methylene Chloride
Concen: 2.203 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

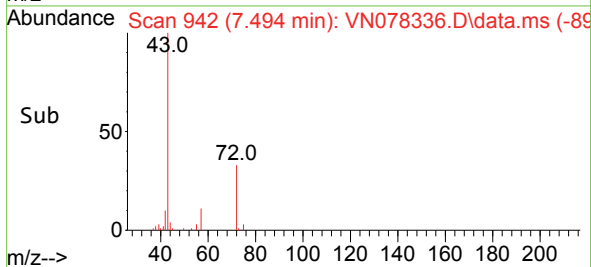
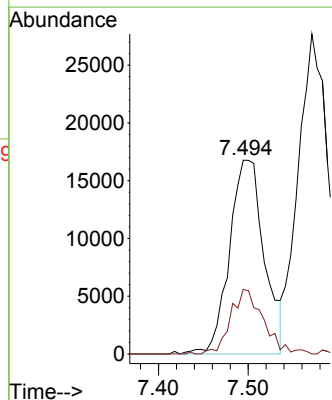
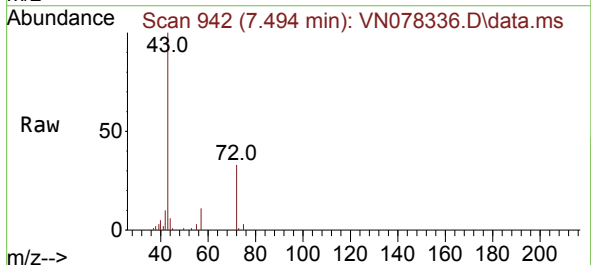
Instrument :
MSVOA_N
ClientSampleId :
WC-15

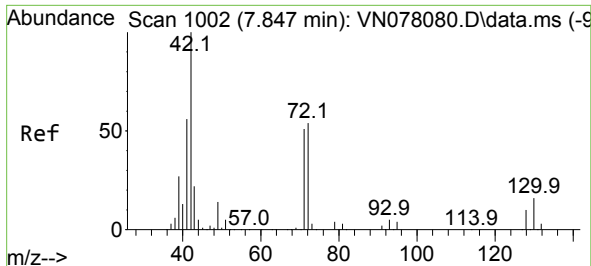
Tgt Ion: 84	Resp: 13099
Ion Ratio	Lower Upper
84 100	
49 89.5	79.7 119.5
51 31.9	25.2 37.8
86 55.7	53.3 79.9



#25
2-Butanone
Concen: 16.370 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

Tgt Ion: 43	Resp: 45292
Ion Ratio	Lower Upper
43 100	
72 33.3	30.2 45.2





#29

Tetrahydrofuran

Concen: 0.252 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.012 min

Lab File: VN078336.D

Acq: 21 Jun 2023 20:47

Instrument :

MSVOA_N

ClientSampleId :

WC-15

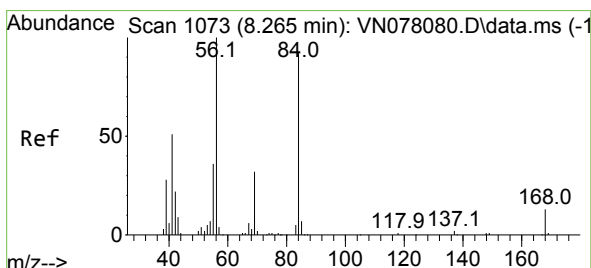
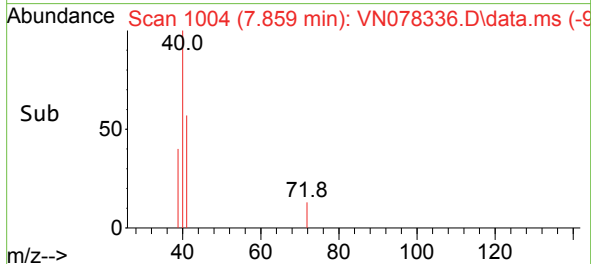
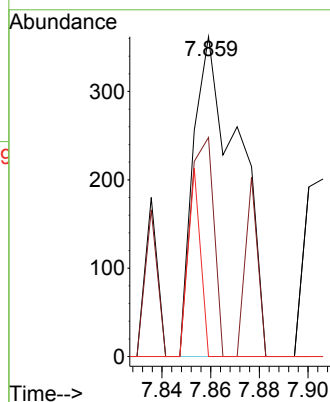
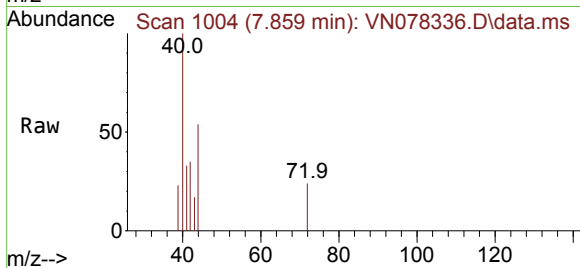
Tgt Ion: 42 Resp: 466

Ion Ratio Lower Upper

42 100

72 35.6 49.8 74.6#

71 16.1 47.4 71.2#



#31

Cyclohexane

Concen: 1.364 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.023 min

Lab File: VN078336.D

Acq: 21 Jun 2023 20:47

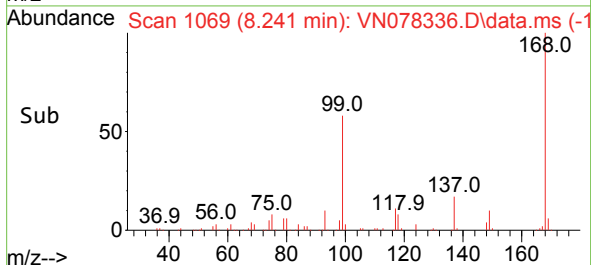
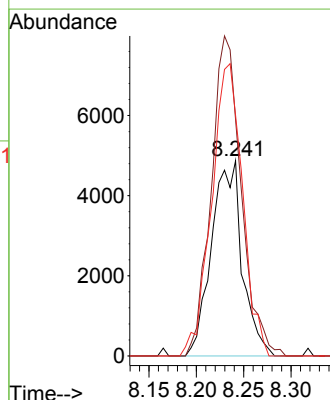
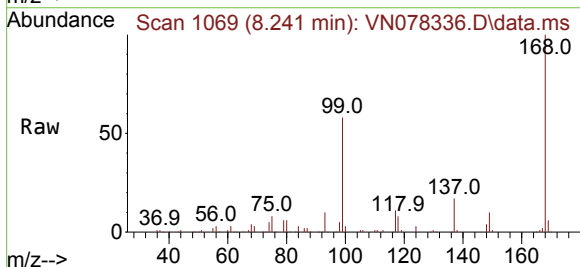
Tgt Ion: 56 Resp: 10936

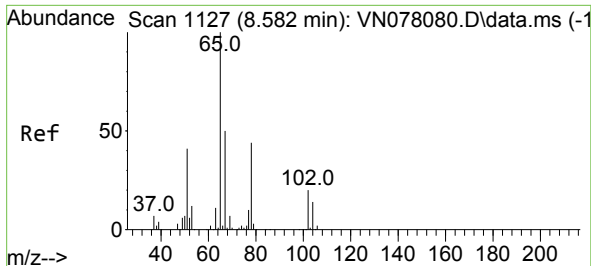
Ion Ratio Lower Upper

56 100

69 121.0 26.8 40.2#

84 123.3 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 52.070 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078336.D

Acq: 21 Jun 2023 20:47

Instrument :

MSVOA_N

ClientSampleId :

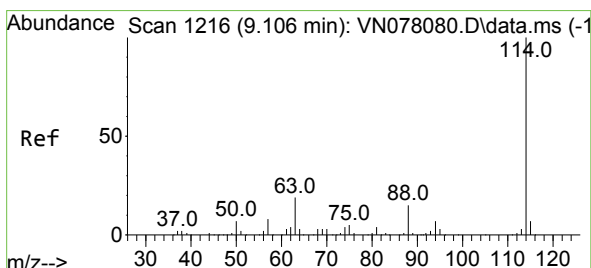
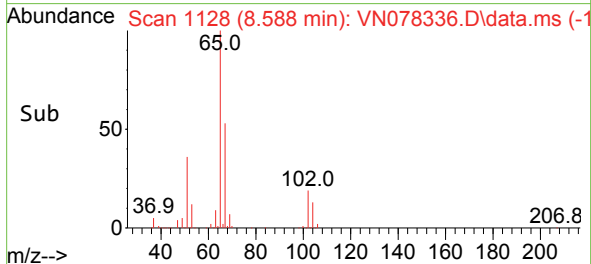
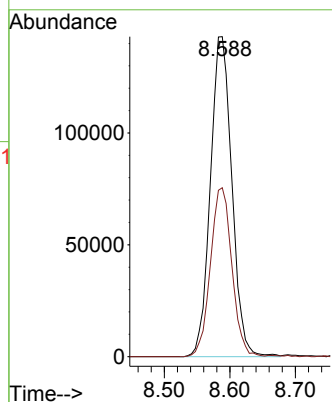
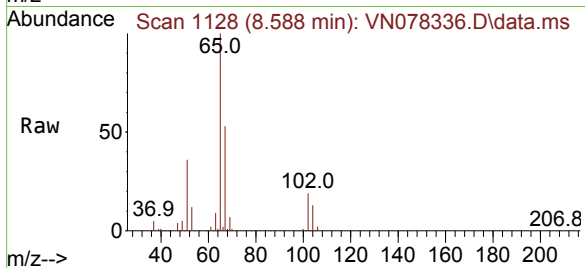
WC-15

Tgt Ion: 65 Resp: 325472

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: VN078336.D

Acq: 21 Jun 2023 20:47

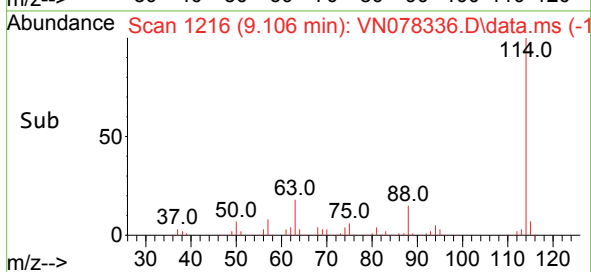
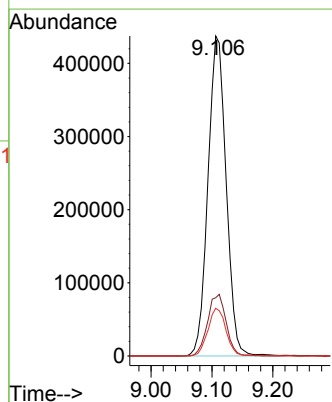
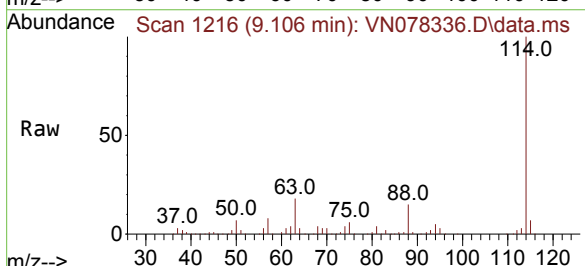
Tgt Ion: 114 Resp: 906141

Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.4

88 14.9 0.0 30.6

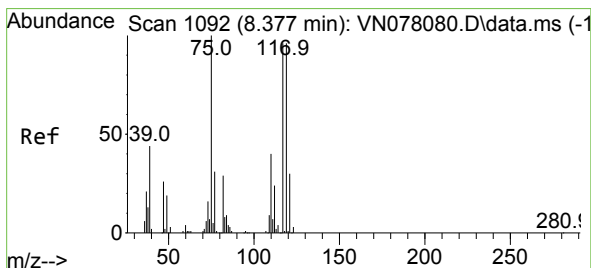
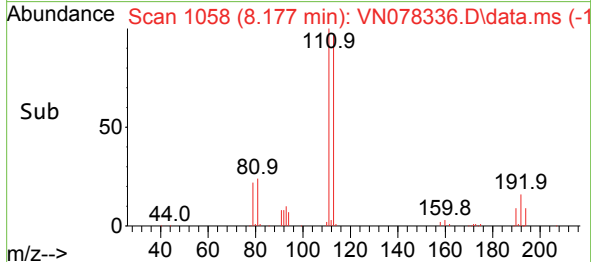
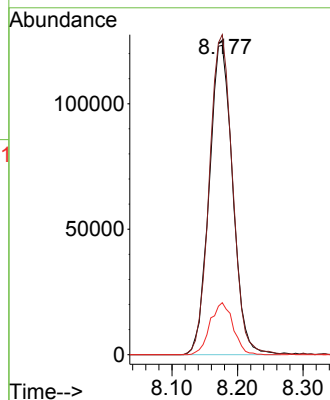
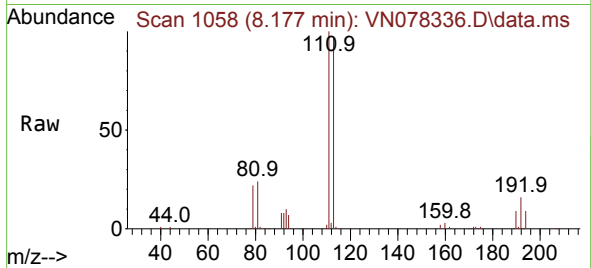




#35
Dibromofluoromethane
Concen: 53.709 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

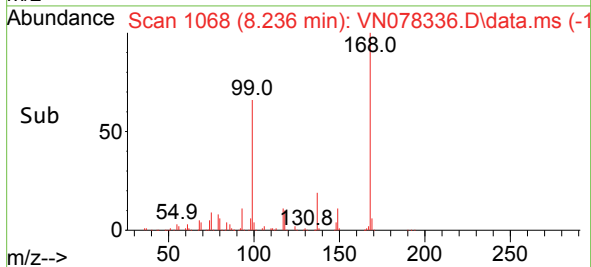
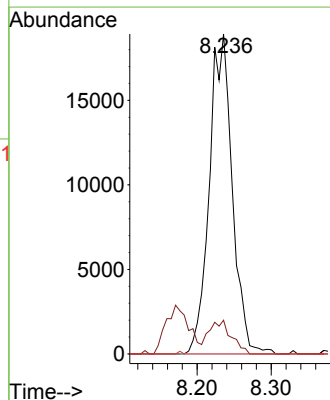
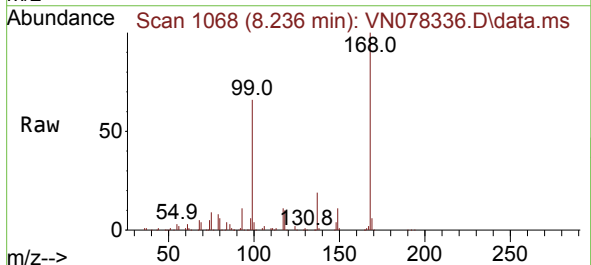
Instrument :
MSVOA_N
ClientSampleId :
WC-15

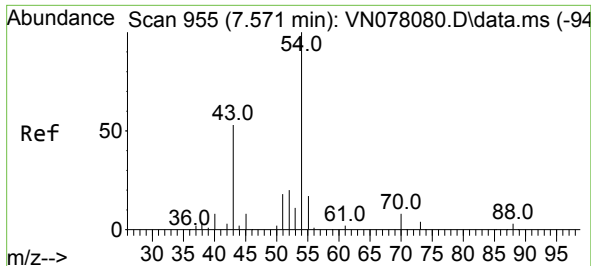
Tgt Ion:113 Resp: 307722
Ion Ratio Lower Upper
113 100
111 102.0 82.6 123.8
192 16.4 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.950 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

Tgt Ion: 75 Resp: 40679
Ion Ratio Lower Upper
75 100
110 10.2 19.1 57.3#
77 0.0 25.0 37.4#

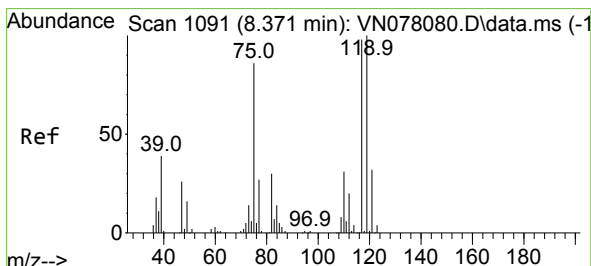
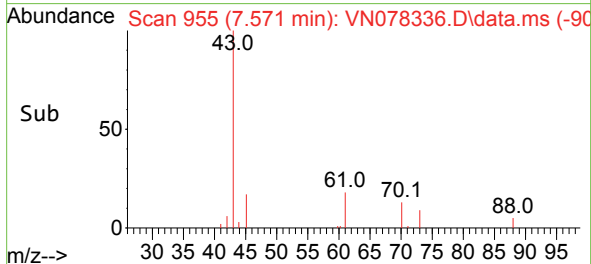
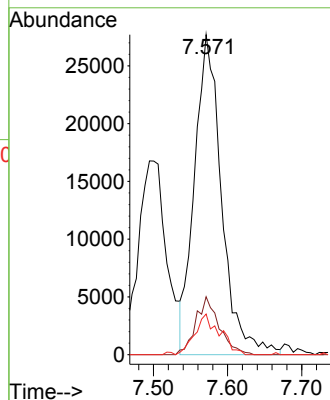
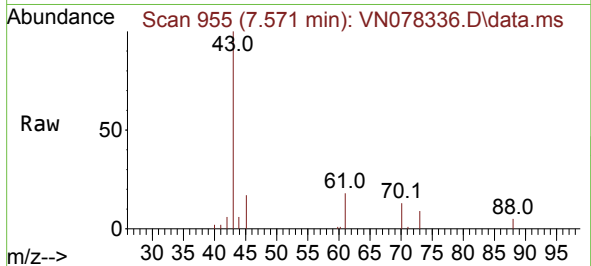




#37
Ethyl Acetate
Concen: 10.998 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

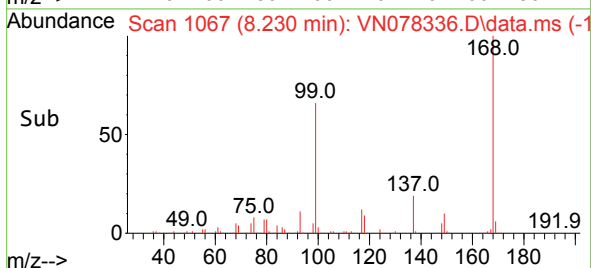
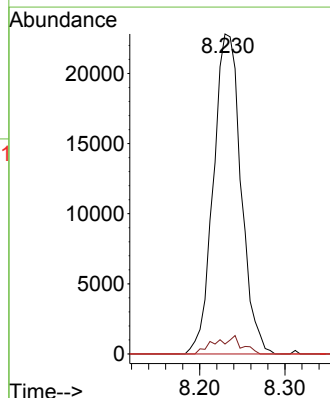
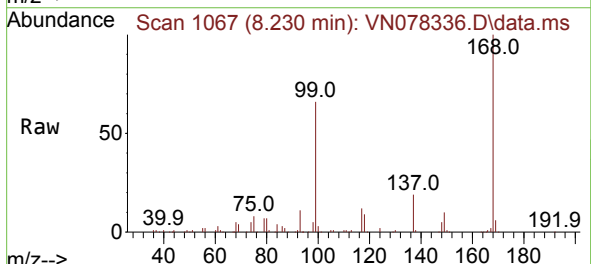
Instrument :
MSVOA_N
ClientSampleId :
WC-15

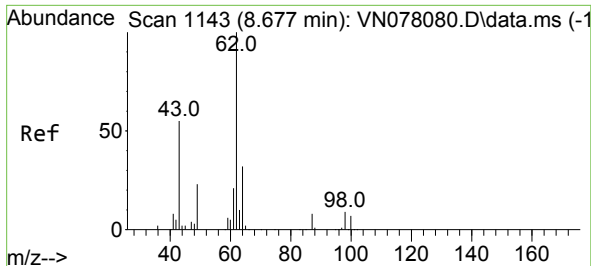
Tgt Ion:	43	Resp:	70606
Ion	Ratio	Lower	Upper
43	100		
61	15.6	13.2	19.8
70	11.6	11.3	16.9



#38
Carbon Tetrachloride
Concen: 5.920 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

Tgt Ion:	117	Resp:	51371
Ion	Ratio	Lower	Upper
117	100		
119	3.1	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.340 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN078336.D

Acq: 21 Jun 2023 20:47

Instrument :

MSVOA_N

ClientSampleId :

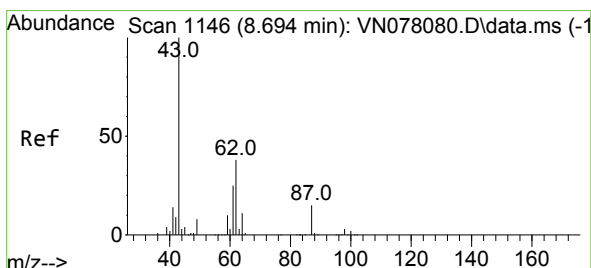
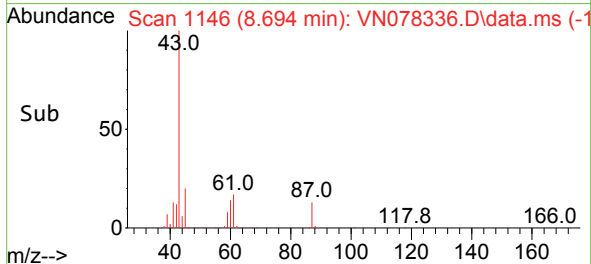
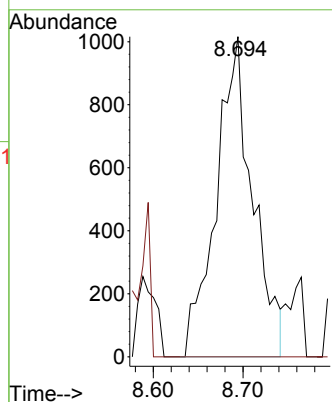
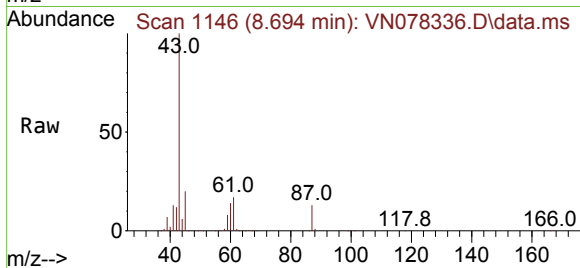
WC-15

Tgt Ion: 62 Resp: 2862

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 41.661 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078336.D

Acq: 21 Jun 2023 20:47

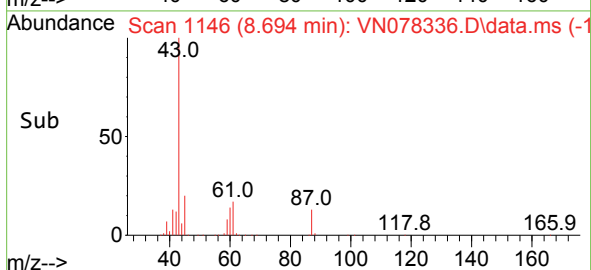
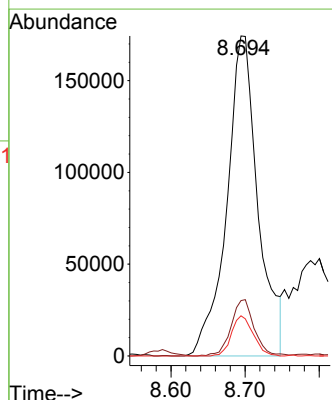
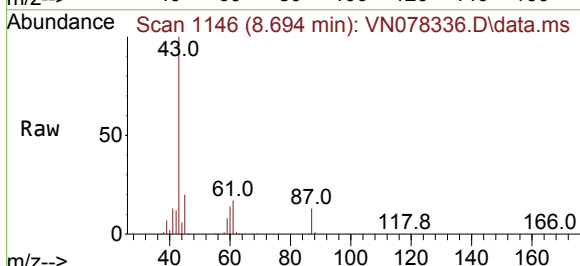
Tgt Ion: 43 Resp: 511516

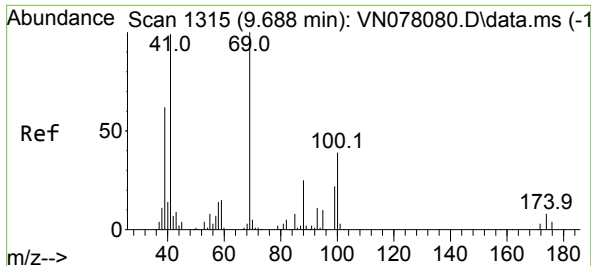
Ion Ratio Lower Upper

43 100

61 13.0 24.7 37.1#

87 8.7 14.6 21.8#

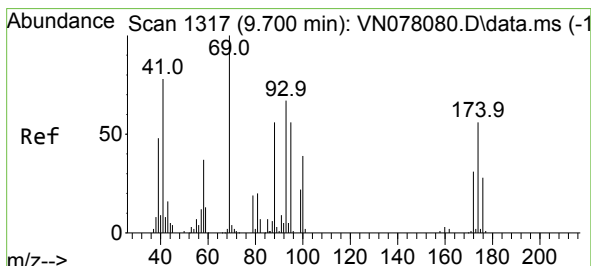
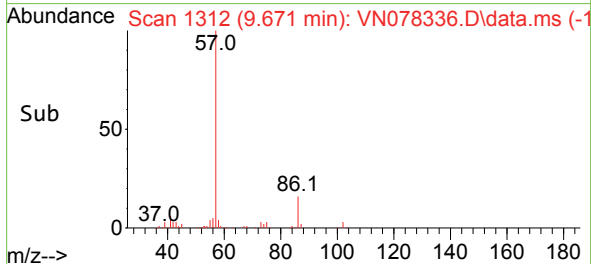
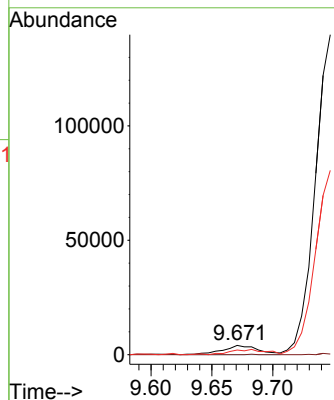
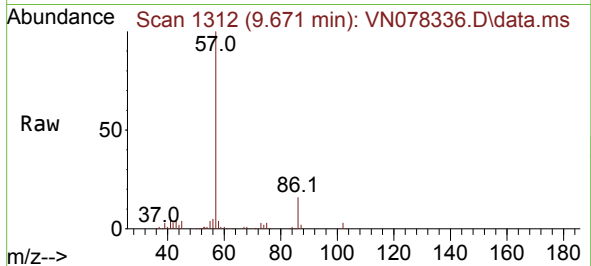




#48
Methyl methacrylate
Concen: 1.629 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

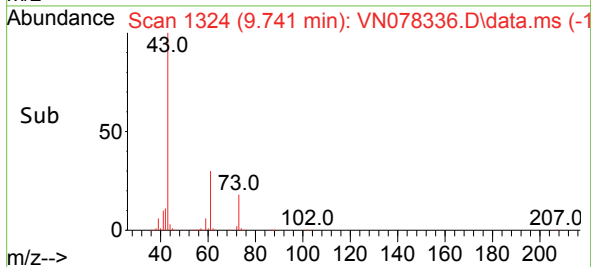
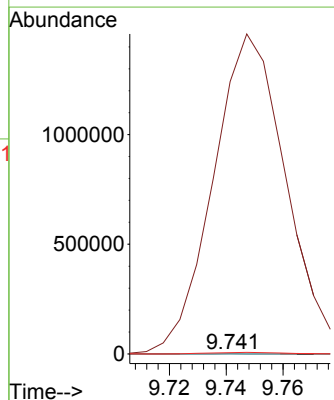
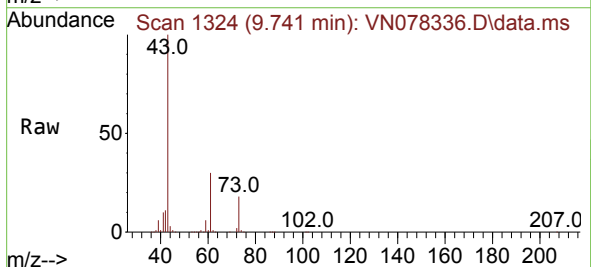
Instrument :
MSVOA_N
ClientSampleId :
WC-15

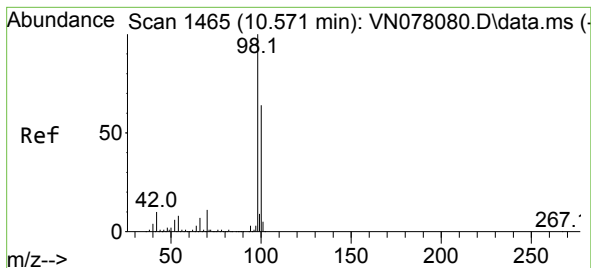
Tgt Ion: 41 Resp: 8394
Ion Ratio Lower Upper
41 100
69 0.9 90.4 135.6#
39 57.1 54.6 81.8



#49
1,4-Dioxane
Concen: 3.056 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.041 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

Tgt Ion: 88 Resp: 331
Ion Ratio Lower Upper
88 100
43 795093.7 17.0 25.6#
58 3884.6 47.0 70.4#

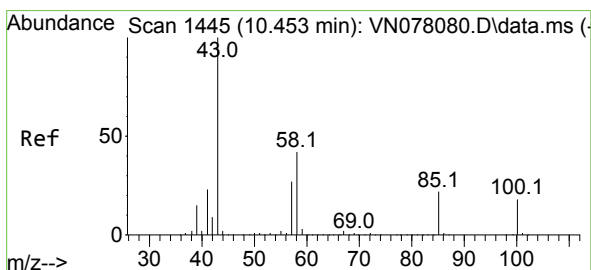
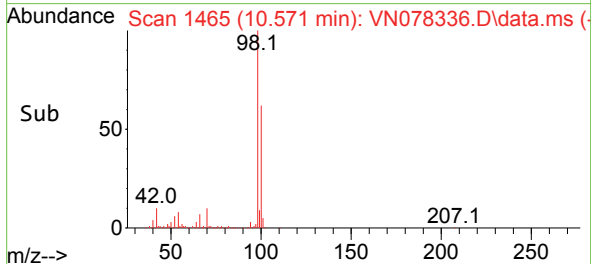
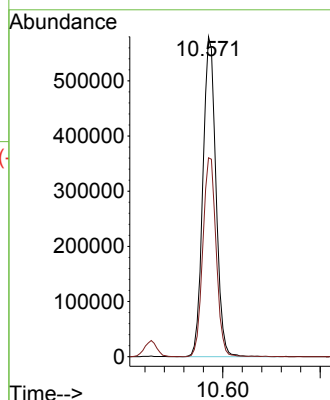
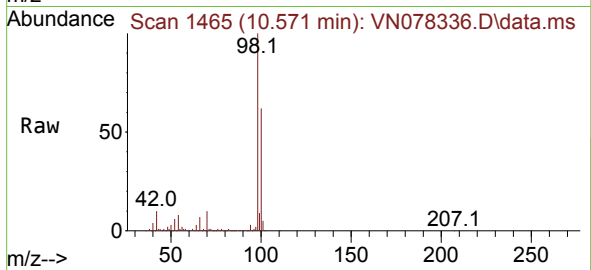




#50
Toluene-d8
Concen: 48.661 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

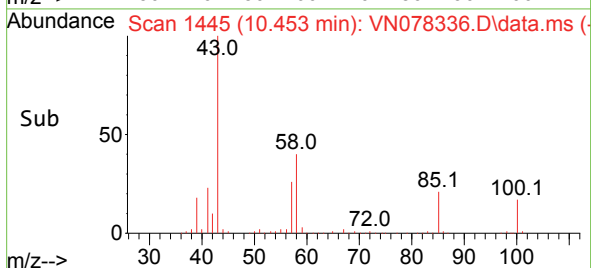
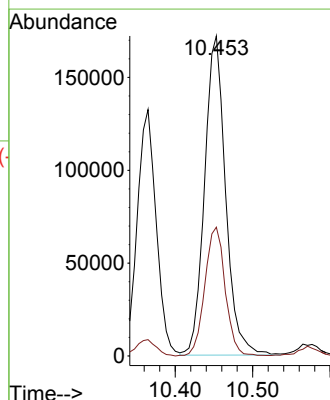
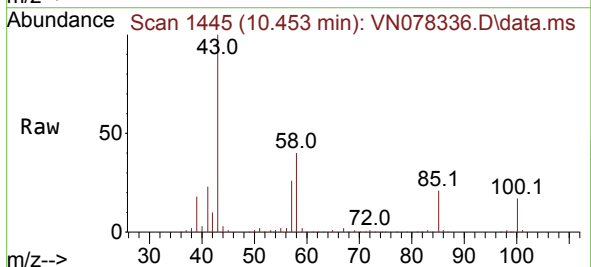
Instrument :
MSVOA_N
ClientSampleId :
WC-15

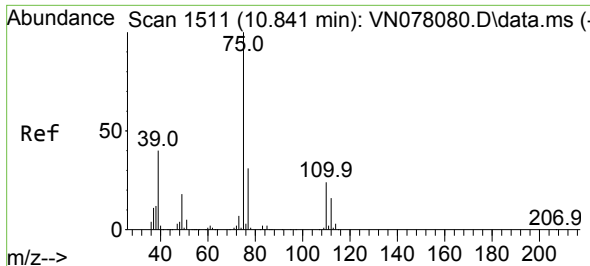
Tgt Ion: 98 Resp: 1074790
Ion Ratio Lower Upper
98 100
100 63.6 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 50.184 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

Tgt Ion: 43 Resp: 324463
Ion Ratio Lower Upper
43 100
58 39.1 36.6 54.8

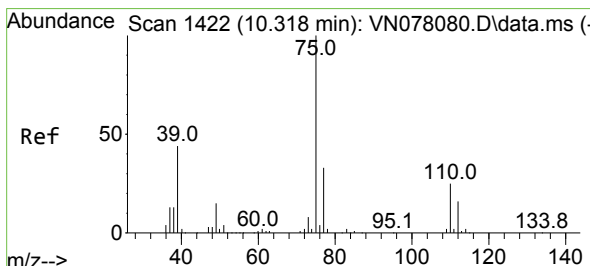
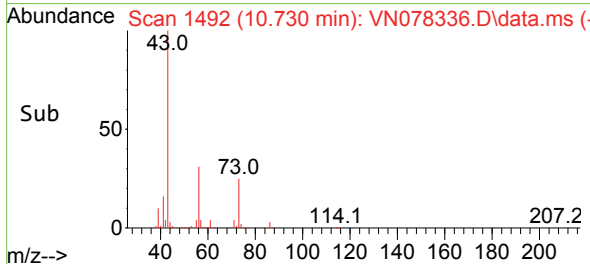
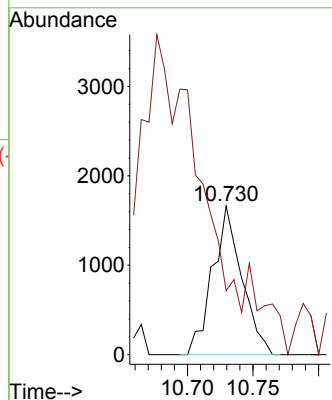
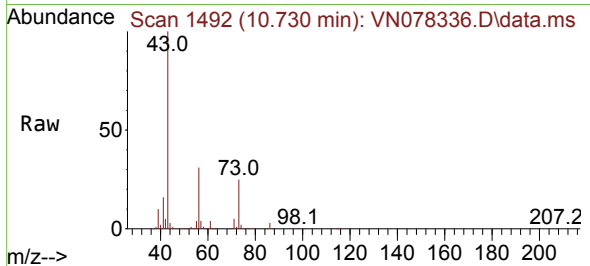




#53
 t-1,3-Dichloropropene
 Concen: 0.297 ug/l
 RT: 10.730 min Scan# 1492
 Delta R.T. -0.112 min
 Lab File: VN078336.D
 Acq: 21 Jun 2023 20:47

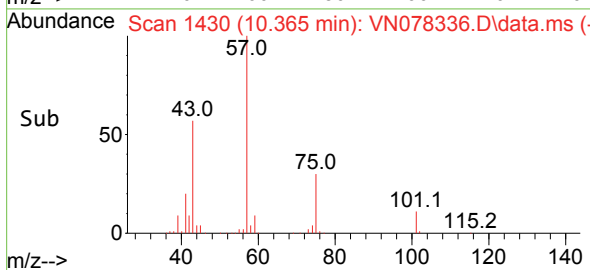
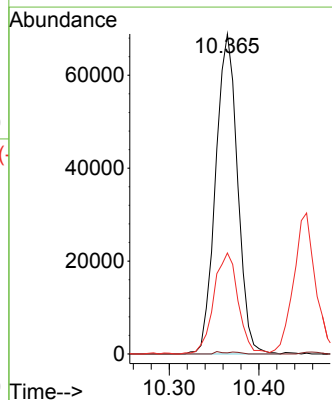
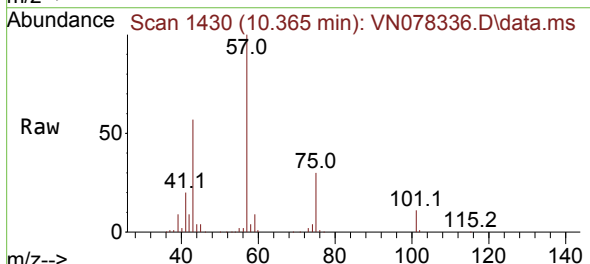
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-15

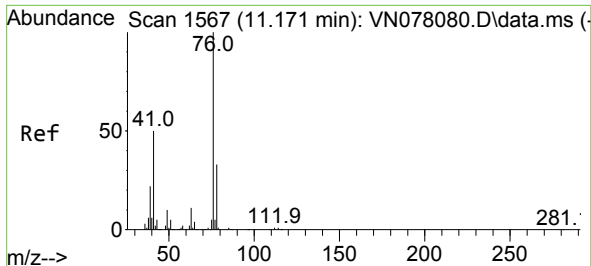
Tgt Ion: 75 Resp: 2584
 Ion Ratio Lower Upper
 75 100
 77 16.8 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 12.169 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN078336.D
 Acq: 21 Jun 2023 20:47

Tgt Ion: 75 Resp: 117006
 Ion Ratio Lower Upper
 75 100
 77 0.4 26.1 39.1#
 39 31.5 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.429 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.035 min

Lab File: VN078336.D

Acq: 21 Jun 2023 20:47

Instrument :

MSVOA_N

ClientSampleId :

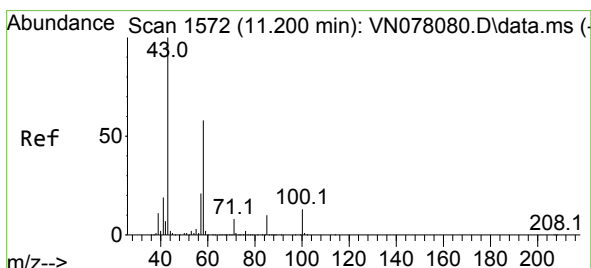
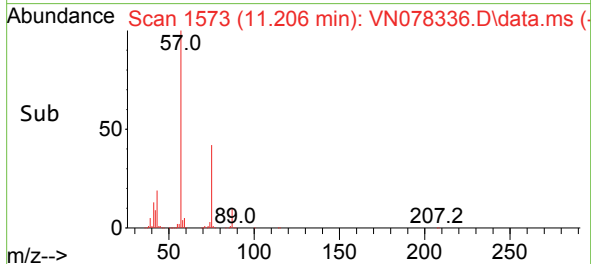
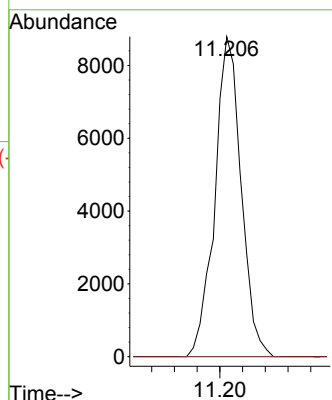
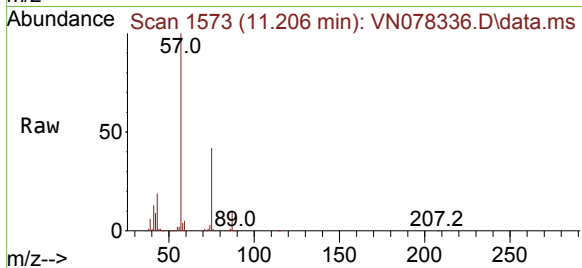
WC-15

Tgt Ion: 76 Resp: 14138

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 59.617 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078336.D

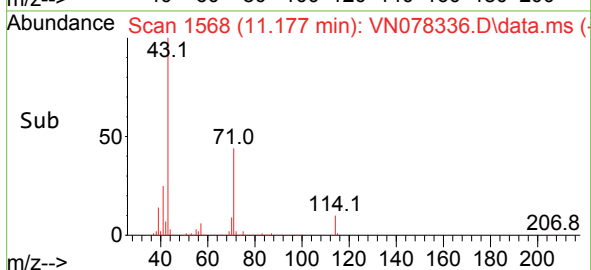
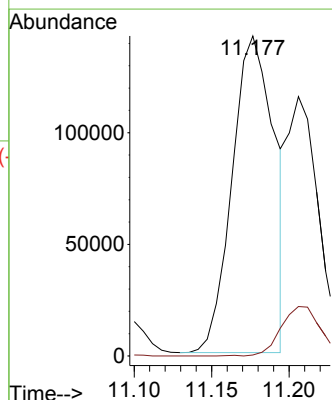
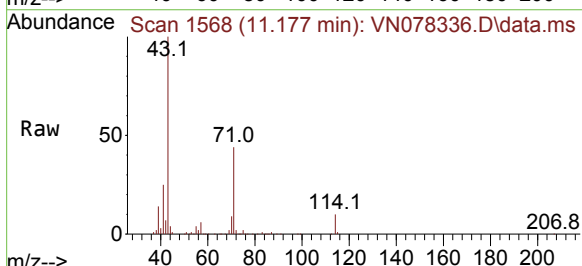
Acq: 21 Jun 2023 20:47

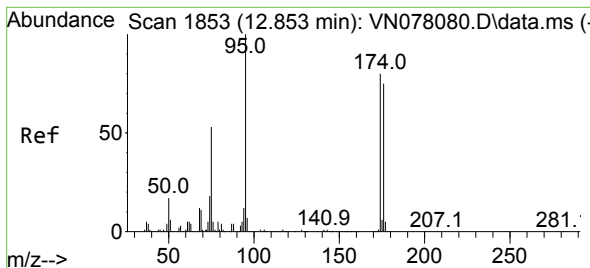
Tgt Ion: 43 Resp: 268387

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#





#62

4-Bromofluorobenzene

Concen: 49.615 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VN078336.D

Acq: 21 Jun 2023 20:47

Instrument :

MSVOA_N

ClientSampleId :

WC-15

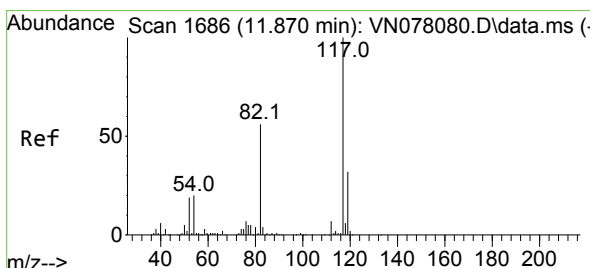
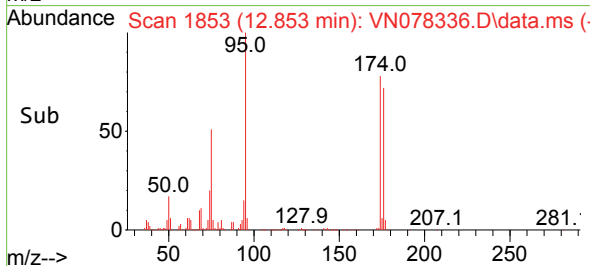
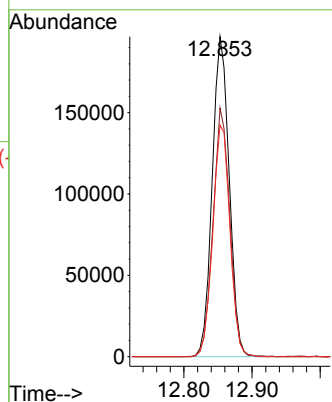
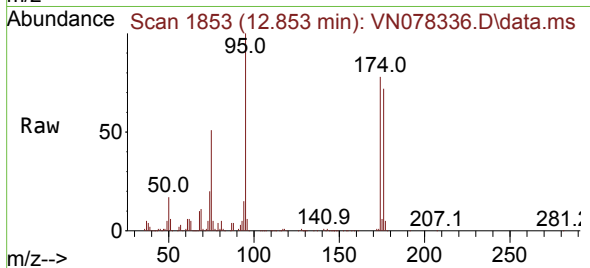
Tgt Ion: 95 Resp: 340676

Ion Ratio Lower Upper

95 100

174 77.0 0.0 143.8

176 73.1 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: VN078336.D

Acq: 21 Jun 2023 20:47

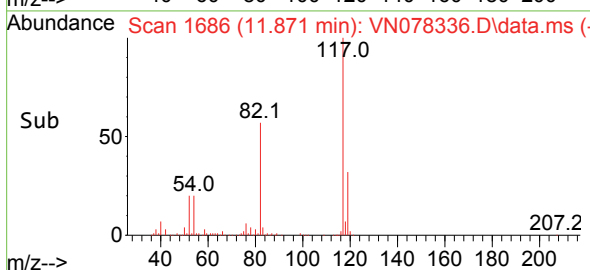
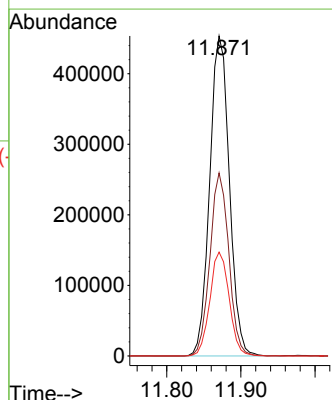
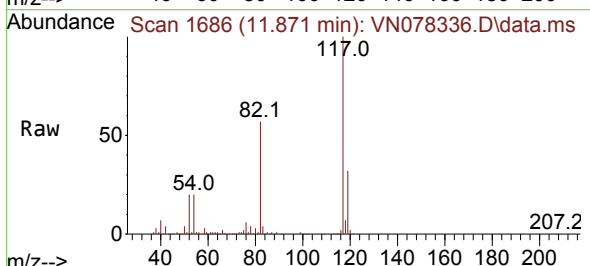
Tgt Ion: 117 Resp: 835670

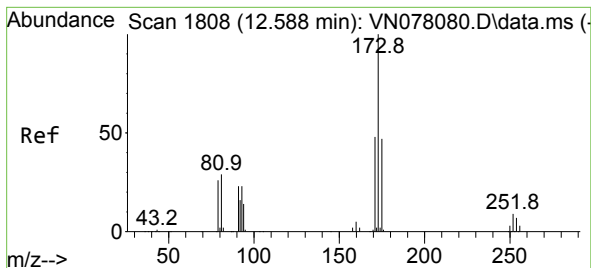
Ion Ratio Lower Upper

117 100

82 57.2 44.0 66.0

119 32.5 25.6 38.4





#71

Bromoform

Concen: 0.705 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN078336.D

Acq: 21 Jun 2023 20:47

Instrument :

MSVOA_N

ClientSampleId :

WC-15

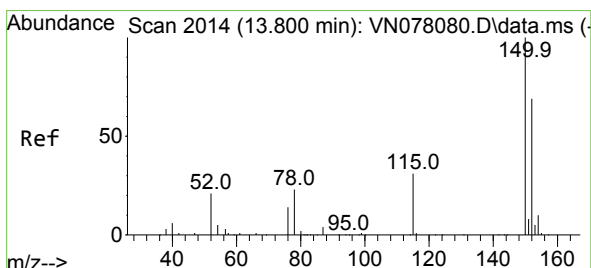
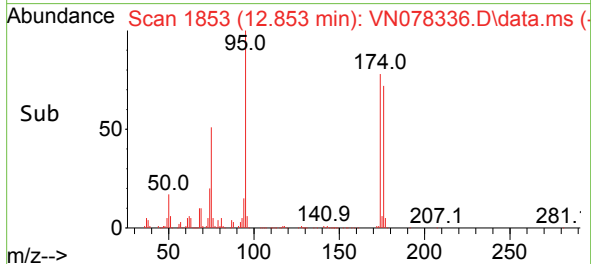
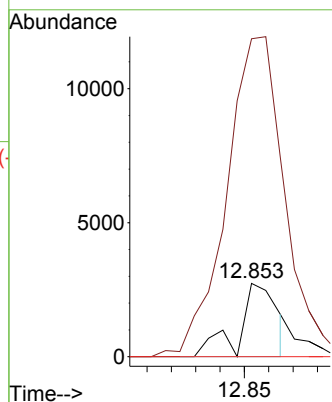
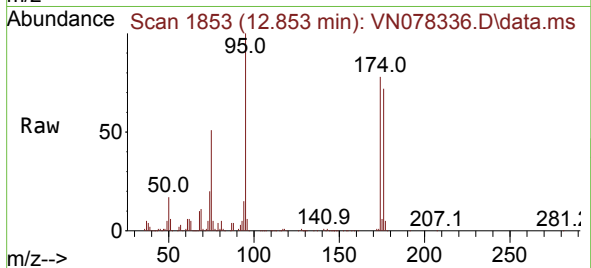
Tgt Ion:173 Resp: 2993

Ion Ratio Lower Upper

173 100

175 588.7 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.006 min

Lab File: VN078336.D

Acq: 21 Jun 2023 20:47

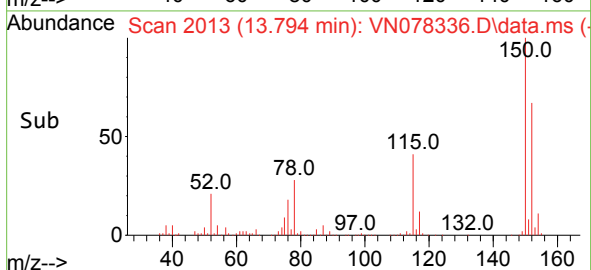
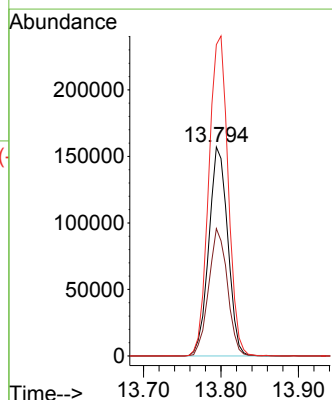
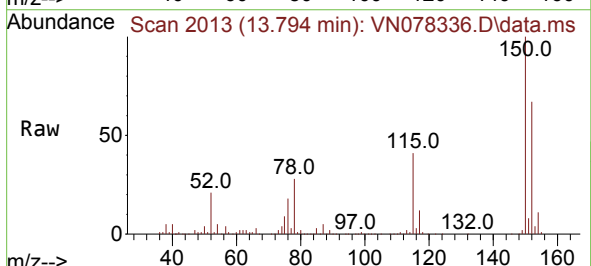
Tgt Ion:152 Resp: 266552

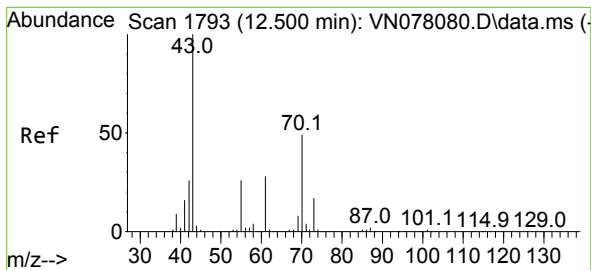
Ion Ratio Lower Upper

152 100

115 60.2 32.3 96.8

150 156.1 0.0 355.8





#74

N-amy1 acetate

Concen: 0.256 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN078336.D

Acq: 21 Jun 2023 20:47

Instrument :

MSVOA_N

ClientSampleId :

WC-15

Tgt Ion: 43 Resp: 2128

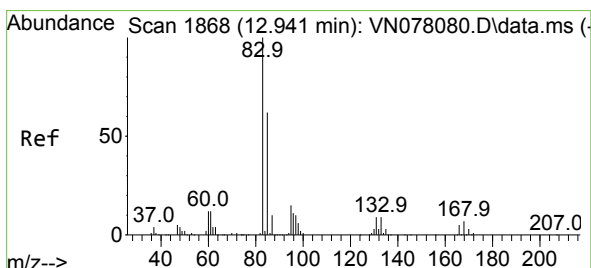
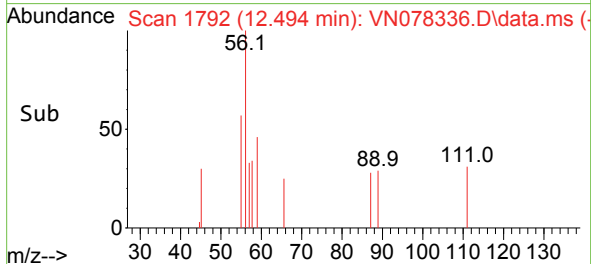
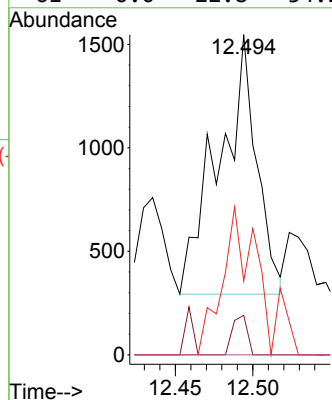
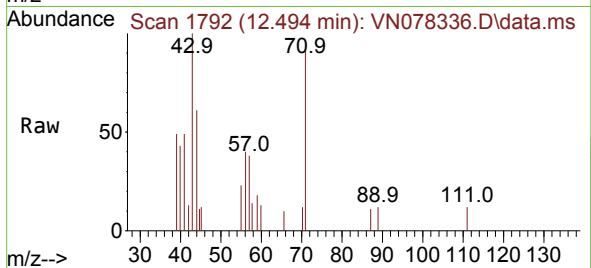
Ion Ratio Lower Upper

43 100

70 5.9 43.4 65.2#

55 48.2 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: VN078336.D

Acq: 21 Jun 2023 20:47

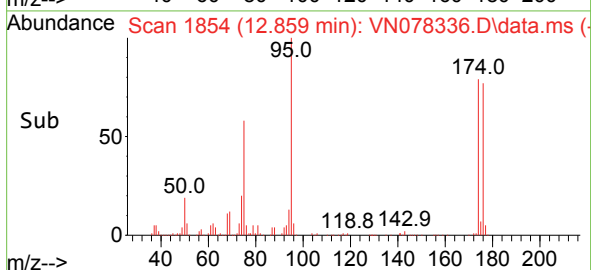
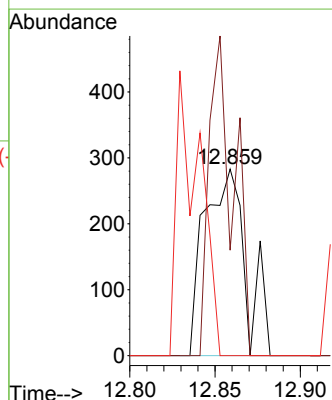
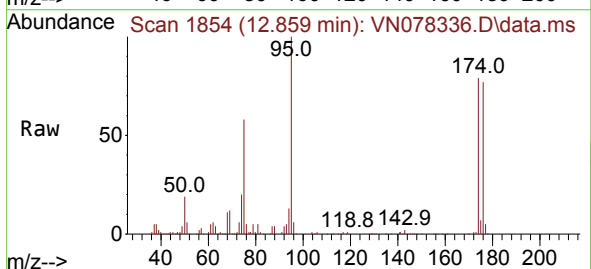
Tgt Ion: 83 Resp: 478

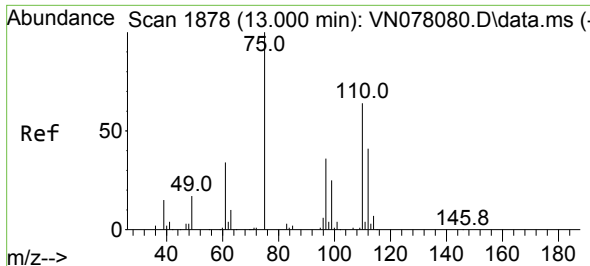
Ion Ratio Lower Upper

83 100

131 100.6 5.0 15.0#

85 0.0 31.9 95.7#

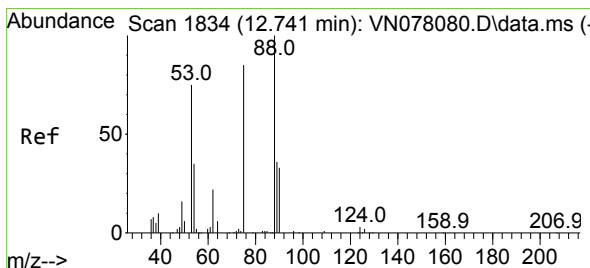
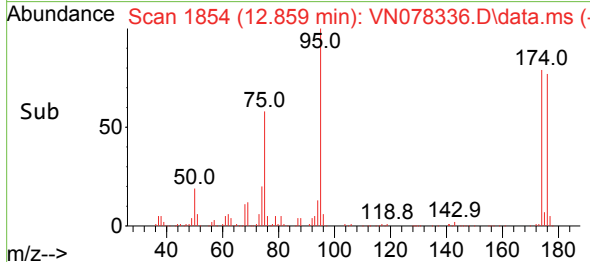
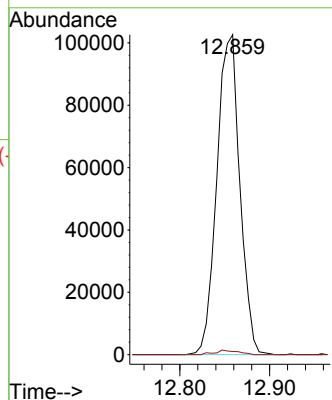
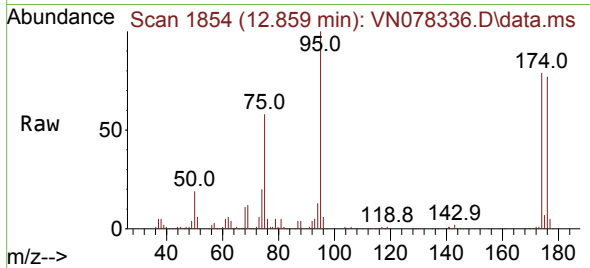




#76
1,2,3-Trichloropropane
Concen: 28.980 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

Instrument :
MSVOA_N
ClientSampleId :
WC-15

Tgt Ion: 75 Resp: 182615
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 89.036 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN078336.D
Acq: 21 Jun 2023 20:47

Tgt Ion: 75 Resp: 182615
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

