

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078329.D
 Acq On : 21 Jun 2023 17:59
 Operator : JC\MD
 Sample : 03336-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-2

Quant Time: Jun 22 04:53:03 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)

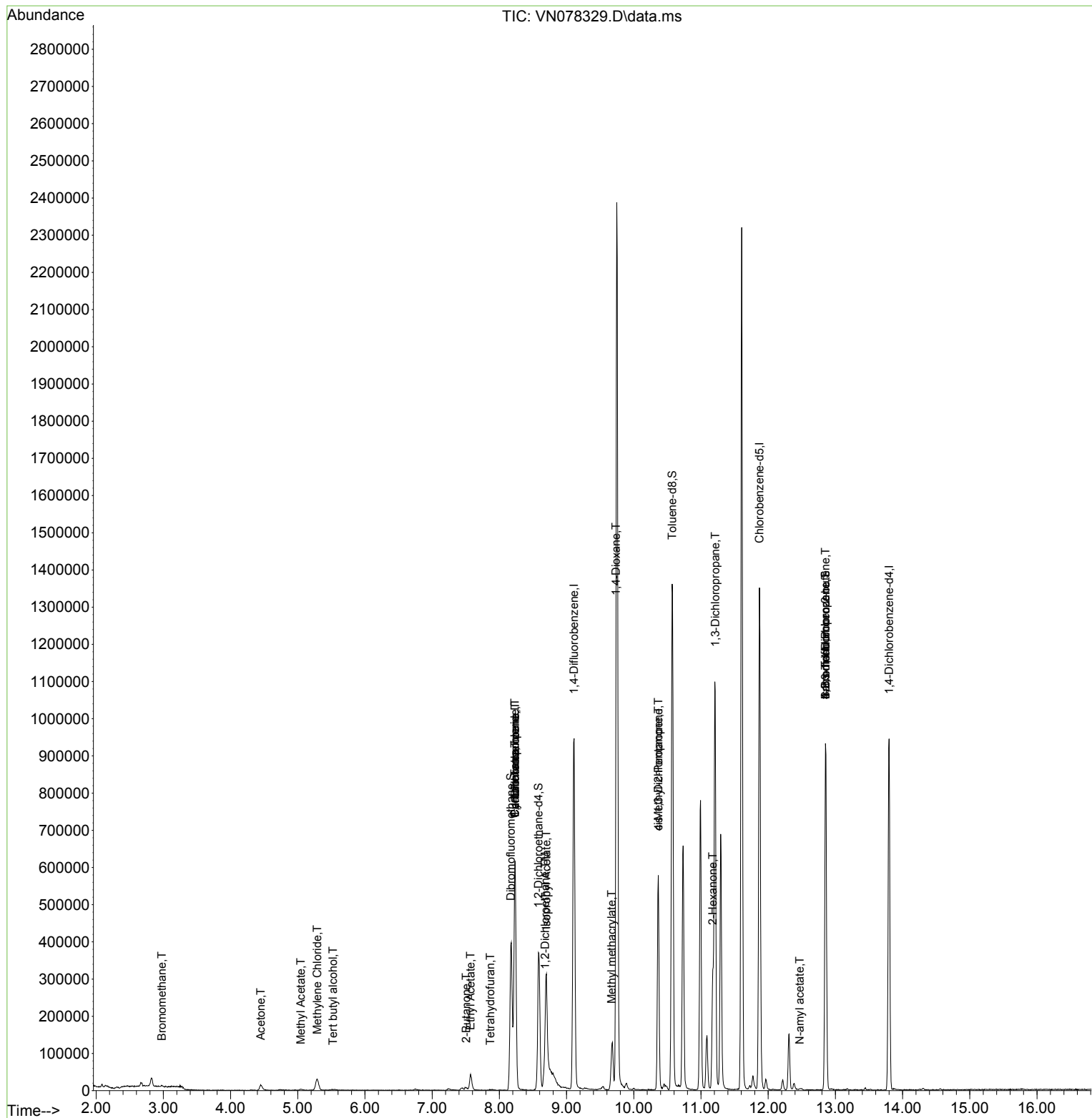
Internal Standards						
1) Pentafluorobenzene	8.235	168	440018	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	843326	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	796882	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	262283	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	312916	53.337	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.680%	
35) Dibromofluoromethane	8.171	113	290370	54.456	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 108.920%	
50) Toluene-d8	10.571	98	1001740	48.731	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 97.460%	
62) 4-Bromofluorobenzene	12.853	95	336906	52.720	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 105.440%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1330	Below Cal	#	80
5) Bromomethane	2.977	94	1173	0.238	ug/l #	47
11) Tert butyl alcohol	5.524	59	1697	2.095	ug/l #	85
16) Acetone	4.447	43	25727	15.235	ug/l	99
18) Methyl Acetate	5.047	43	2915	0.375	ug/l	94
20) Methylene Chloride	5.289	84	24433	4.378	ug/l #	87
25) 2-Butanone	7.506	43	10548	4.062	ug/l #	84
29) Tetrahydrofuran	7.865	42	603	0.347	ug/l #	27
31) Cyclohexane	8.230	56	11045	1.468	ug/l #	31
36) 1,1-Dichloropropene	8.235	75	39846	5.210	ug/l #	48
37) Ethyl Acetate	7.571	43	60253	10.084	ug/l	95
38) Carbon Tetrachloride	8.230	117	48702	6.030	ug/l #	15
42) 1,2-Dichloroethane	8.683	62	2511	0.321	ug/l #	73
43) Isopropyl Acetate	8.700	43	419394	36.702	ug/l #	74
48) Methyl methacrylate	9.671	41	8490	1.770	ug/l #	33
49) 1,4-Dioxane	9.735	88	145	1.439	ug/l #	30
51) 4-Methyl-2-Pentanone	10.365	43	202989	33.734	ug/l #	40
54) cis-1,3-Dichloropropene	10.365	75	105766	11.820	ug/l #	70
57) 1,3-Dichloropropane	11.212	76	12118	1.316	ug/l #	44
59) 2-Hexanone	11.176	43	234933	56.073	ug/l #	19
71) Bromoform	12.853	173	2584	0.638	ug/l #	1
74) N-amyl acetate	12.470	43	4493	0.550	ug/l #	39
75) 1,1,2,2-Tetrachloroethane	12.859	83	586	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	181727	29.309	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	181727	90.045	ug/l #	15

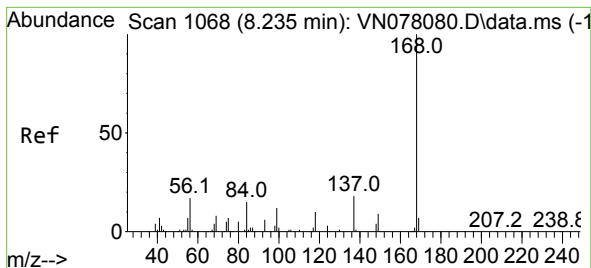
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078329.D

Acq: 21 Jun 2023 17:59

Instrument :

MSVOA_N

ClientSampleId :

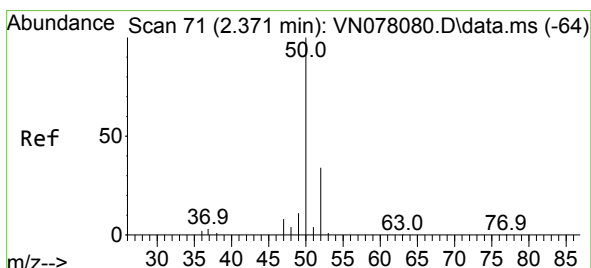
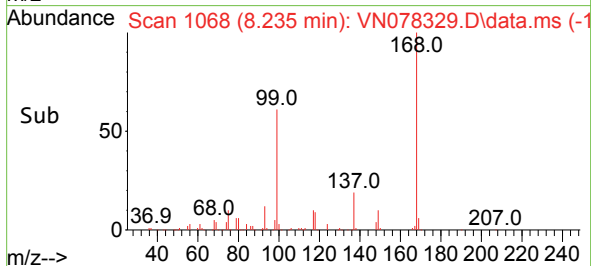
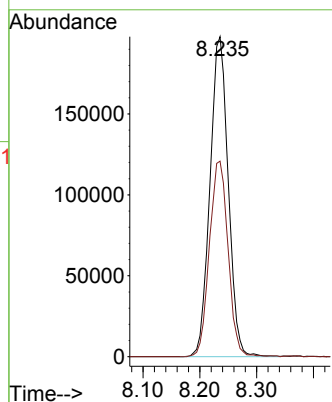
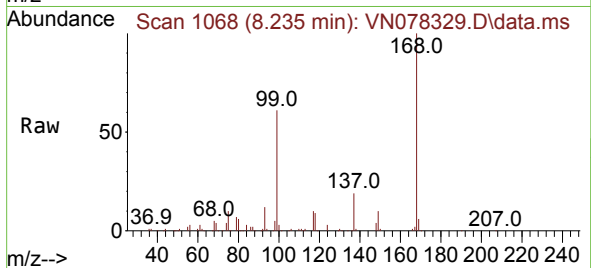
WC-2

Tgt Ion:168 Resp: 440018

Ion Ratio Lower Upper

168 100

99 61.1 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.365 min Scan# 70

Delta R.T. -0.006 min

Lab File: VN078329.D

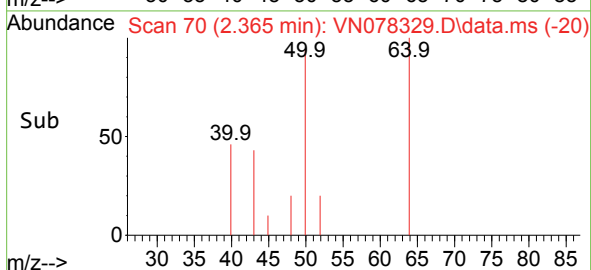
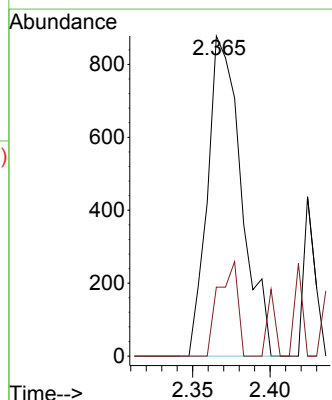
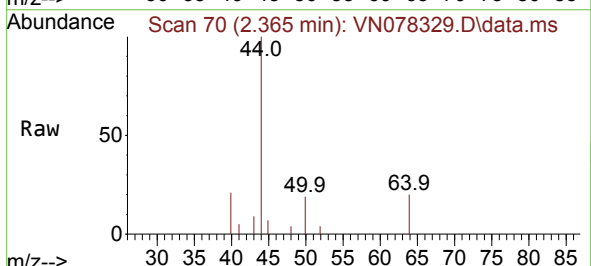
Acq: 21 Jun 2023 17:59

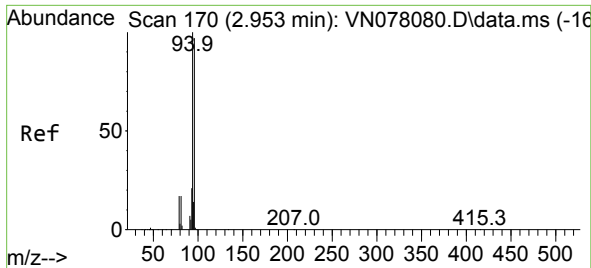
Tgt Ion: 50 Resp: 1330

Ion Ratio Lower Upper

50 100

52 21.5 26.5 39.7#

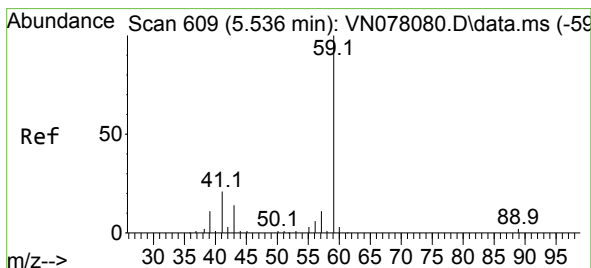
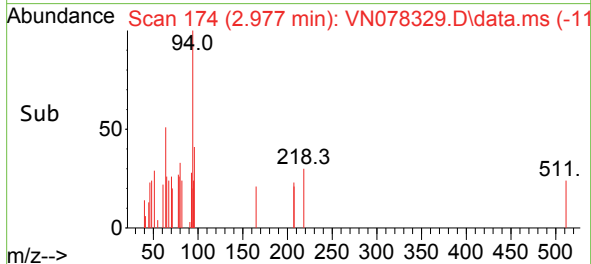
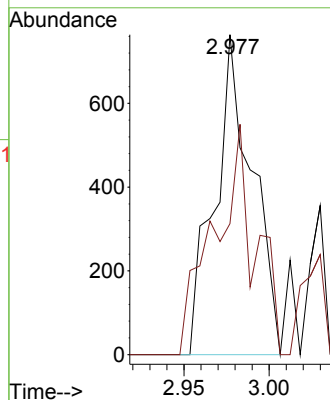
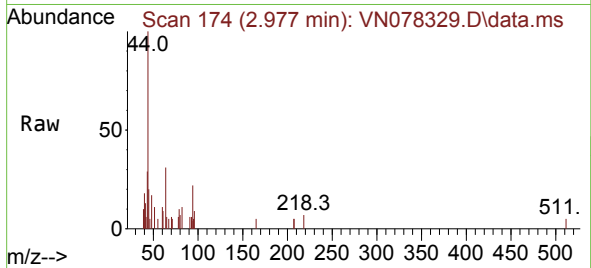




#5
Bromomethane
Concen: 0.238 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

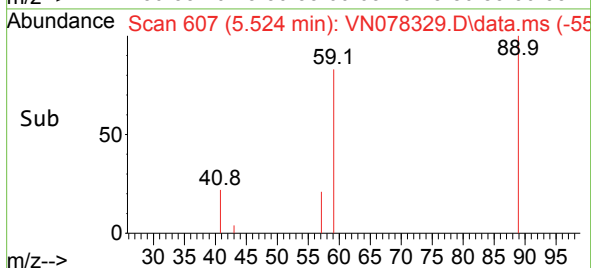
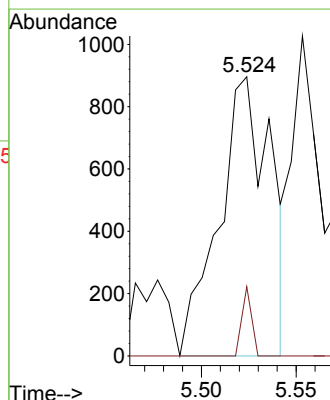
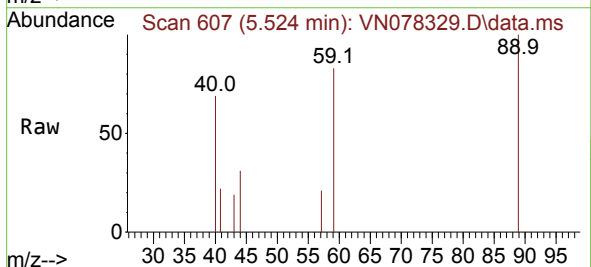
Instrument :
MSVOA_N
ClientSampleId :
WC-2

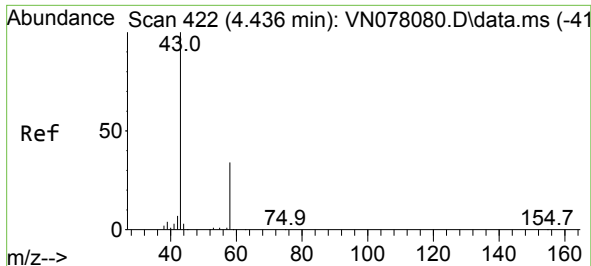
Tgt Ion: 94 Resp: 1173
Ion Ratio Lower Upper
94 100
96 41.0 73.1 109.7#



#11
Tert butyl alcohol
Concen: 2.095 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

Tgt Ion: 59 Resp: 1697
Ion Ratio Lower Upper
59 100
57 4.6 8.2 12.4#

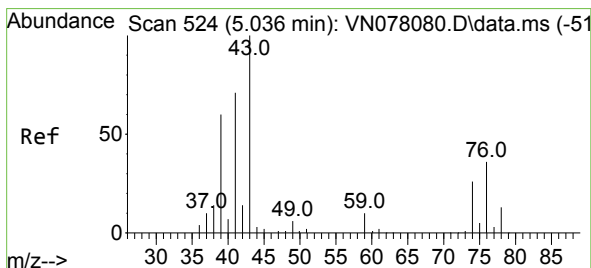
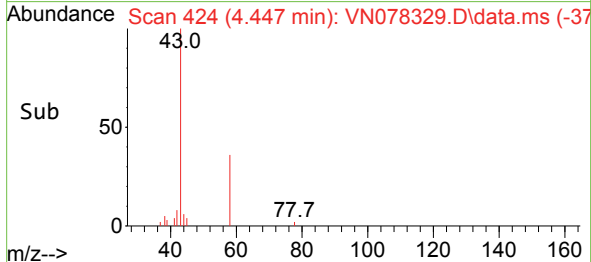
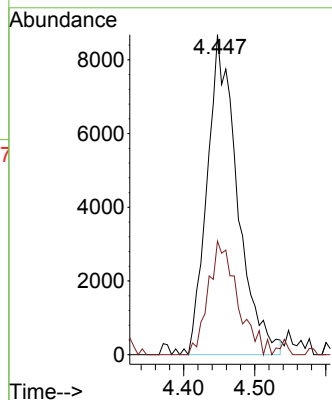
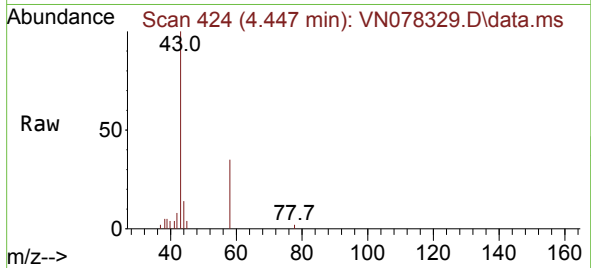




#16
Acetone
Concen: 15.235 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

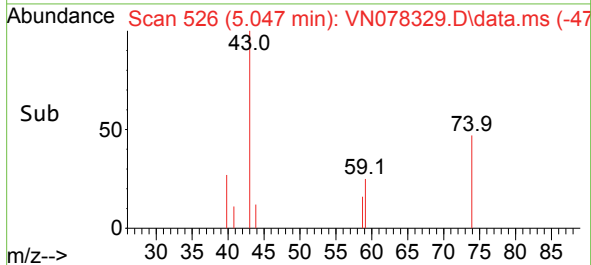
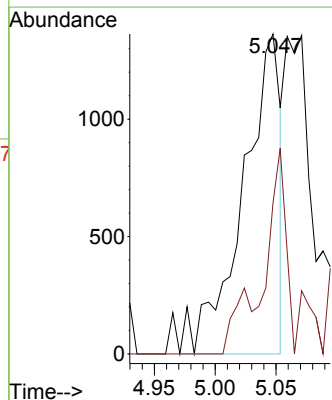
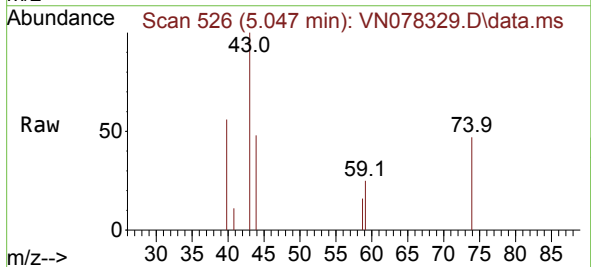
Instrument :
MSVOA_N
ClientSampleId :
WC-2

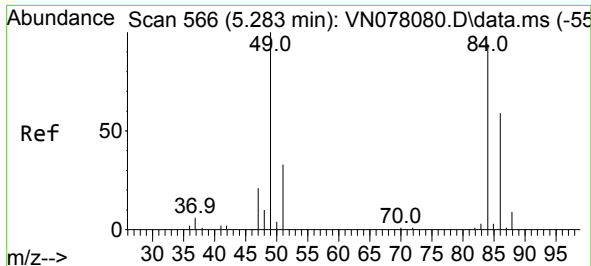
Tgt Ion: 43 Resp: 25727
Ion Ratio Lower Upper
43 100
58 35.5 28.0 42.0



#18
Methyl Acetate
Concen: 0.375 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.012 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

Tgt Ion: 43 Resp: 2915
Ion Ratio Lower Upper
43 100
74 29.4 26.2 39.4

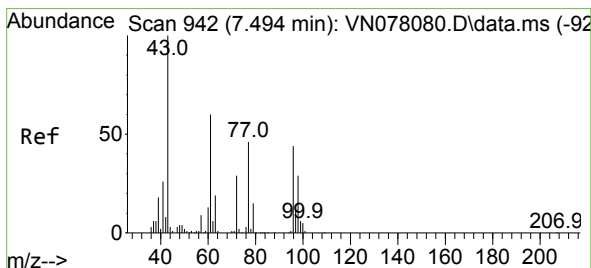
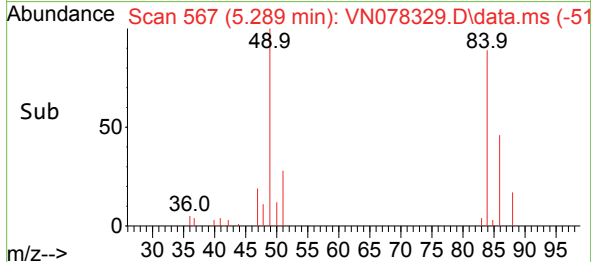
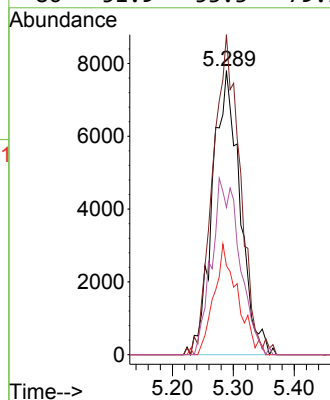
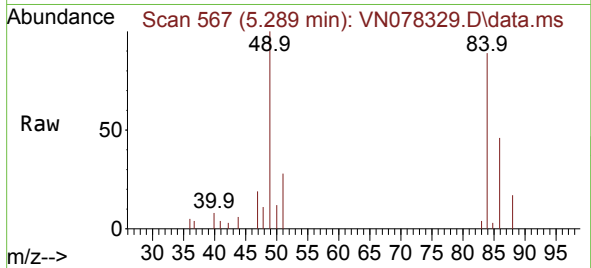




#20
Methylene Chloride
Concen: 4.378 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

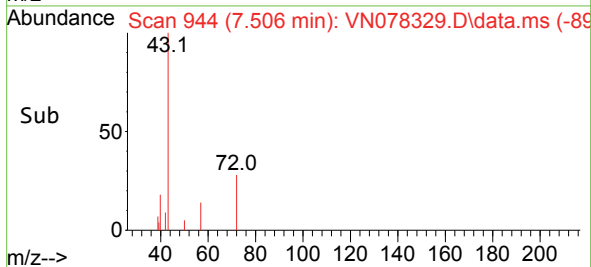
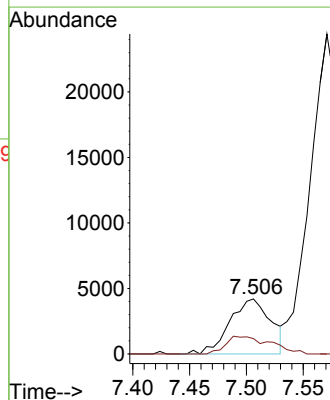
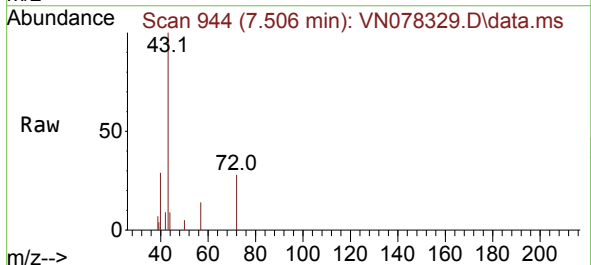
Instrument :
MSVOA_N
ClientSampleId :
WC-2

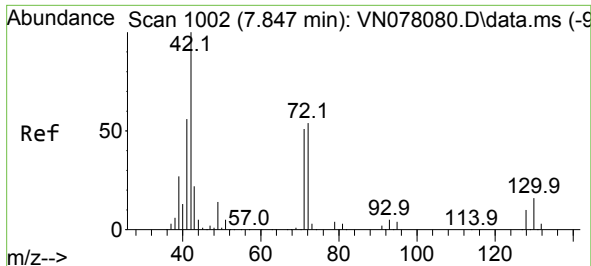
Tgt Ion: 84	Resp: 24433
Ion Ratio	Lower Upper
84 100	
49 112.6	79.7 119.5
51 31.3	25.2 37.8
86 51.9	53.3 79.9#



#25
2-Butanone
Concen: 4.062 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

Tgt Ion: 43	Resp: 10548
Ion Ratio	Lower Upper
43 100	
72 28.1	30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.347 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. 0.018 min

Lab File: VN078329.D

Acq: 21 Jun 2023 17:59

Instrument :

MSVOA_N

ClientSampleId :

WC-2

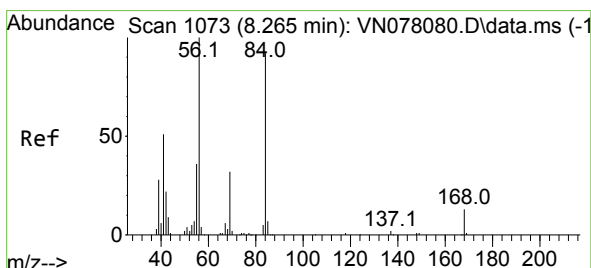
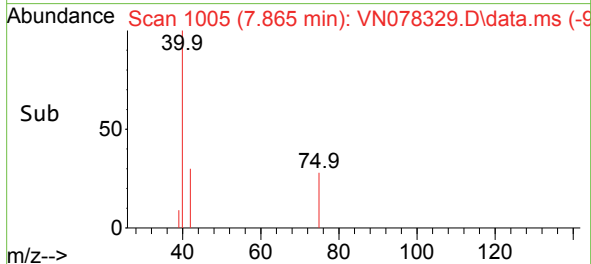
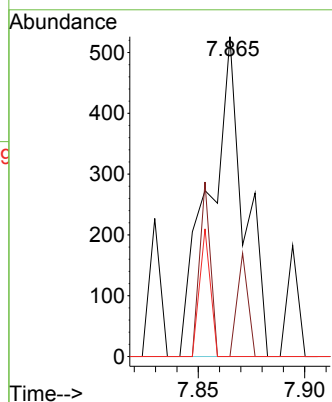
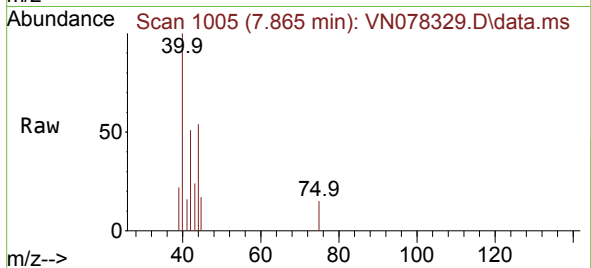
Tgt Ion: 42 Resp: 603

Ion Ratio Lower Upper

42 100

72 10.0 49.8 74.6#

71 0.0 47.4 71.2#



#31

Cyclohexane

Concen: 1.468 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN078329.D

Acq: 21 Jun 2023 17:59

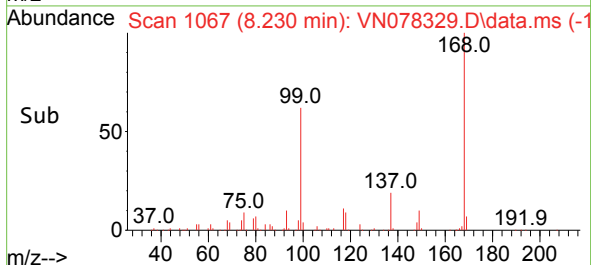
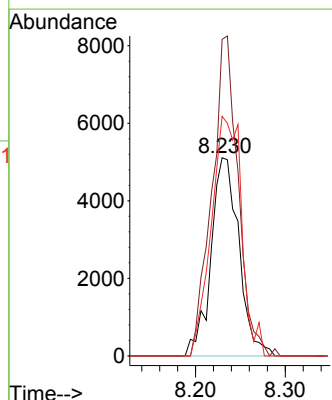
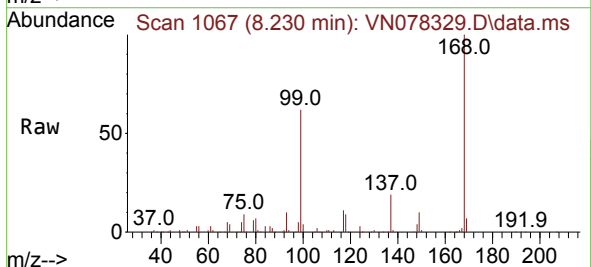
Tgt Ion: 56 Resp: 11045

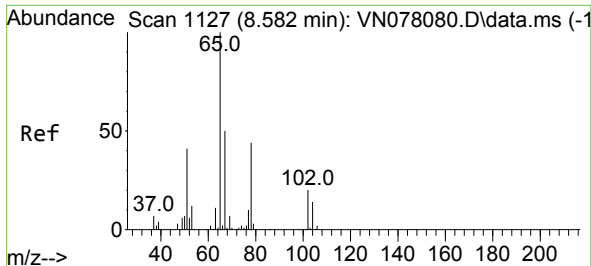
Ion Ratio Lower Upper

56 100

69 159.7 26.8 40.2#

84 120.8 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 53.337 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN078329.D

Acq: 21 Jun 2023 17:59

Instrument :

MSVOA_N

ClientSampleId :

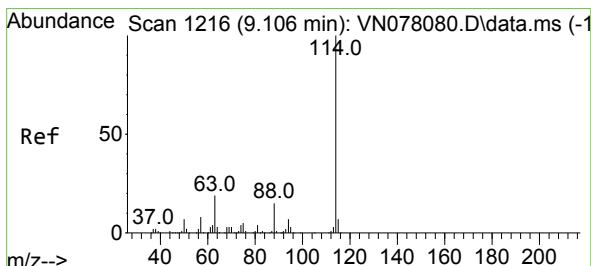
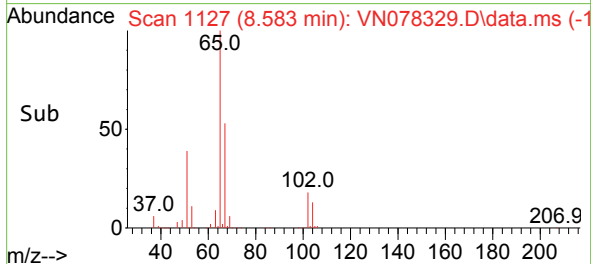
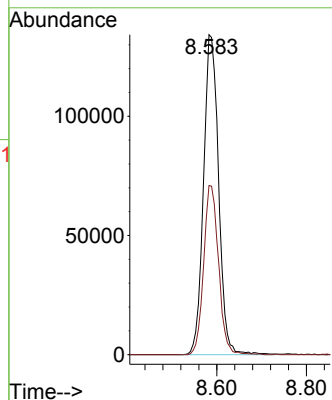
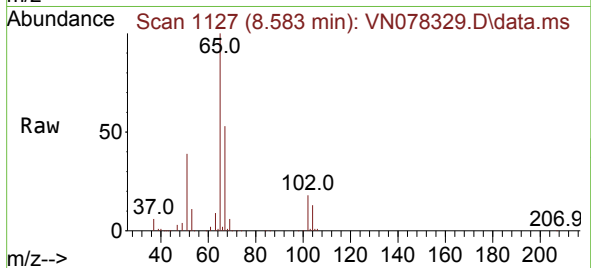
WC-2

Tgt Ion: 65 Resp: 312916

Ion Ratio Lower Upper

65 100

67 52.2 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: VN078329.D

Acq: 21 Jun 2023 17:59

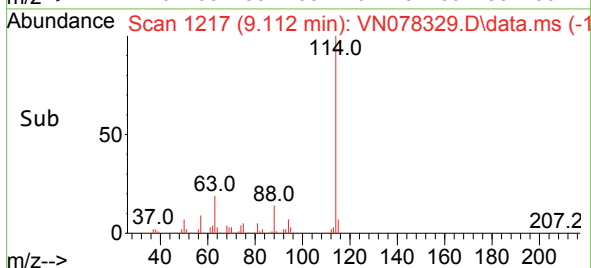
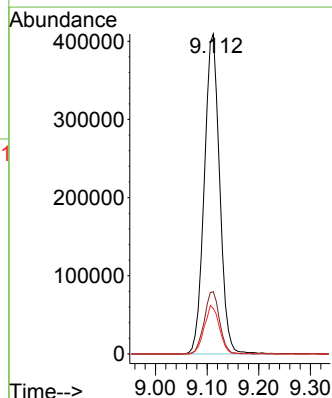
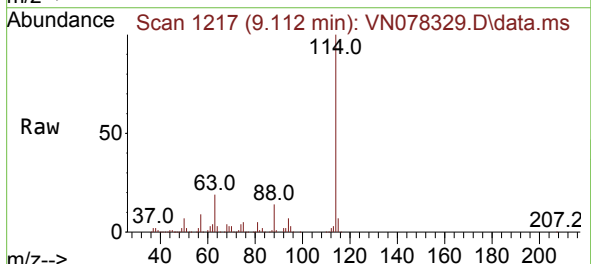
Tgt Ion: 114 Resp: 843326

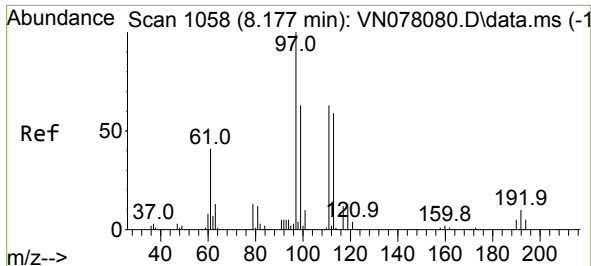
Ion Ratio Lower Upper

114 100

63 19.5 0.0 36.4

88 14.2 0.0 30.6

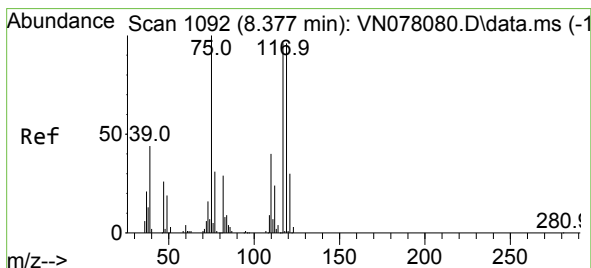
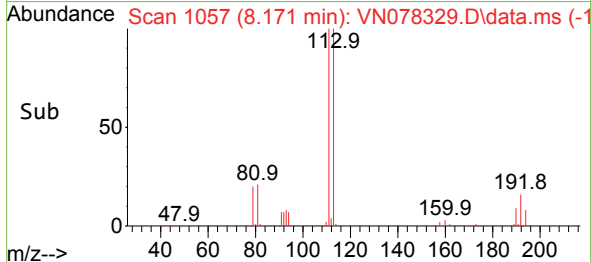
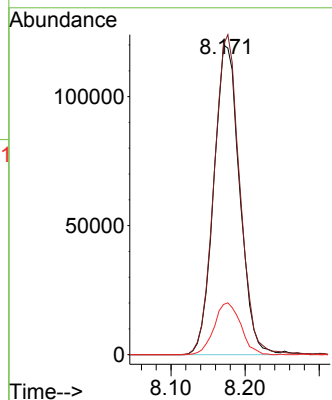
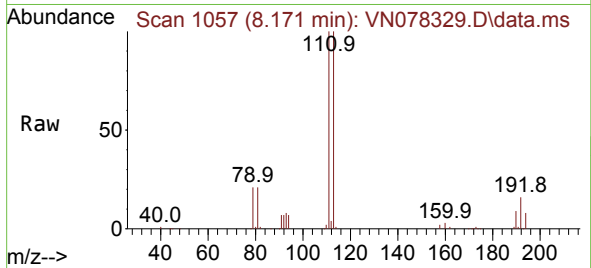




#35
Dibromofluoromethane
Concen: 54.456 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

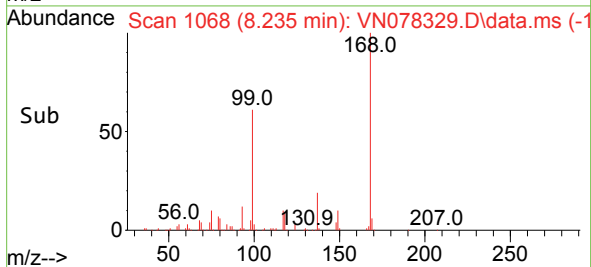
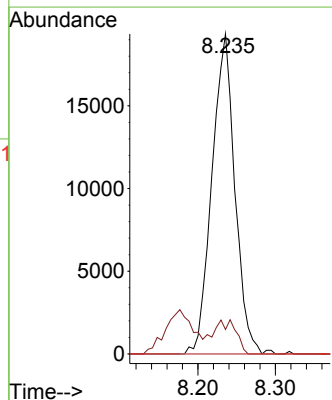
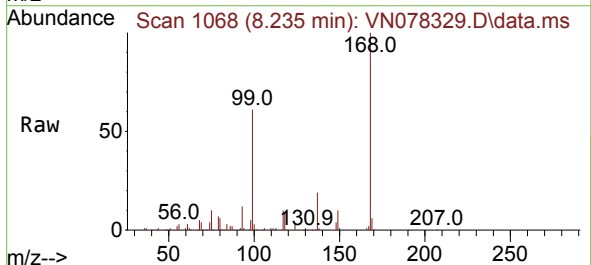
Instrument :
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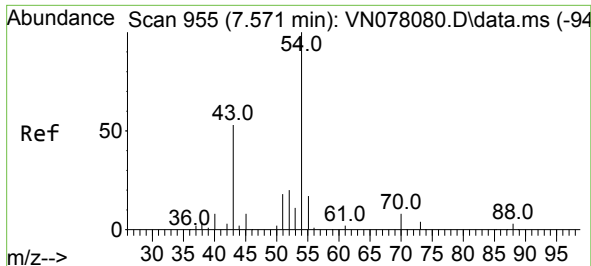
Tgt Ion:113 Resp: 290370
Ion Ratio Lower Upper
113 100
111 103.4 82.6 123.8
192 17.2 12.7 19.1



#36
1,1-Dichloropropene
Concen: 5.210 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

Tgt Ion: 75 Resp: 39846
Ion Ratio Lower Upper
75 100
110 8.9 19.1 57.3#
77 0.0 25.0 37.4#

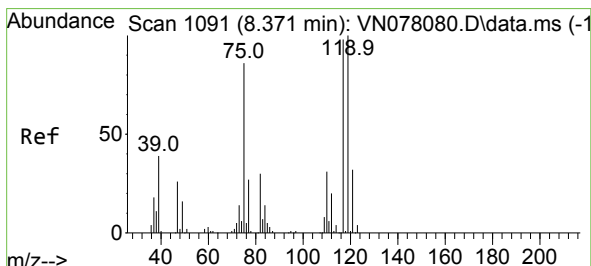
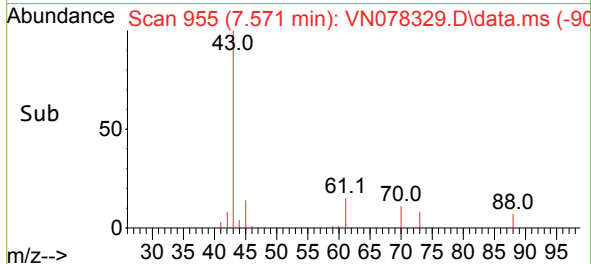
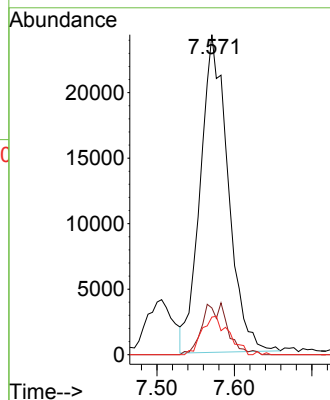
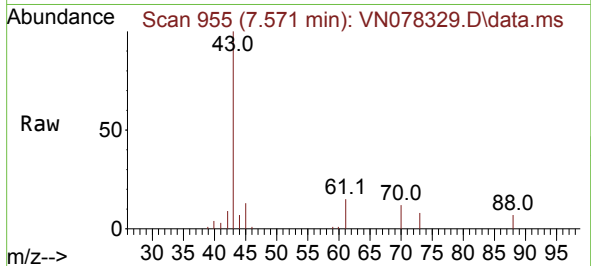




#37
Ethyl Acetate
Concen: 10.084 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

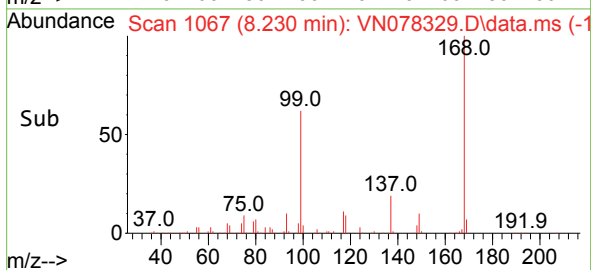
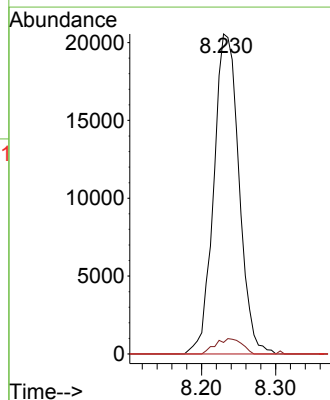
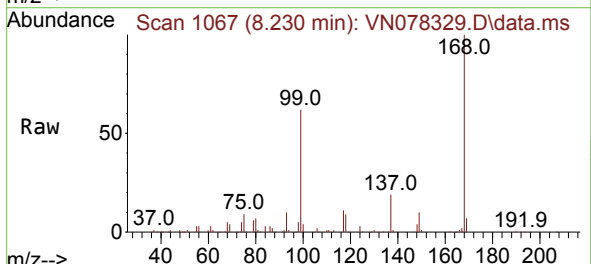
Instrument :
MSVOA_N
ClientSampleId :
WC-2

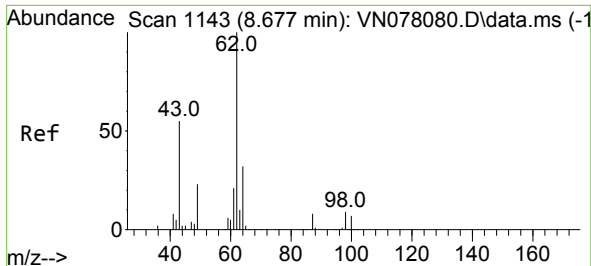
Tgt Ion:	43	Resp:	60253
Ion	Ratio	Lower	Upper
43	100		
61	15.0	13.2	19.8
70	11.6	11.3	16.9



#38
Carbon Tetrachloride
Concen: 6.030 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

Tgt Ion:	117	Resp:	48702
Ion	Ratio	Lower	Upper
117	100		
119	3.6	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.321 ug/l

RT: 8.683 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN078329.D

Acq: 21 Jun 2023 17:59

Instrument :

MSVOA_N

ClientSampleId :

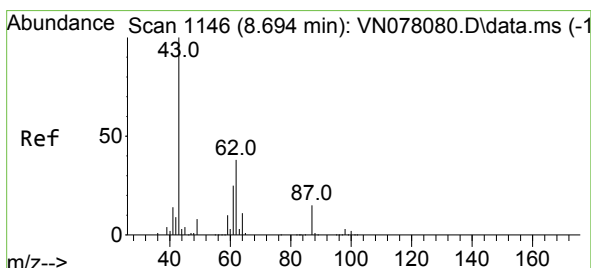
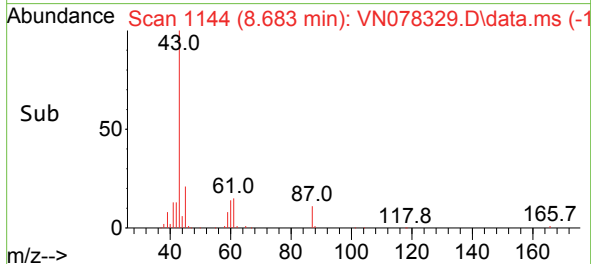
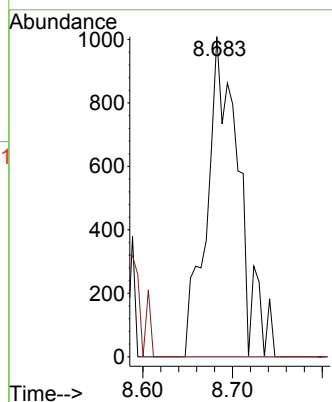
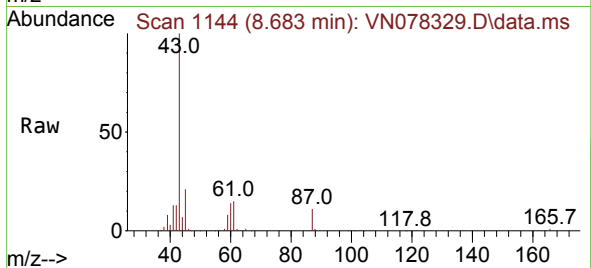
WC-2

Tgt Ion: 62 Resp: 2511

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 36.702 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078329.D

Acq: 21 Jun 2023 17:59

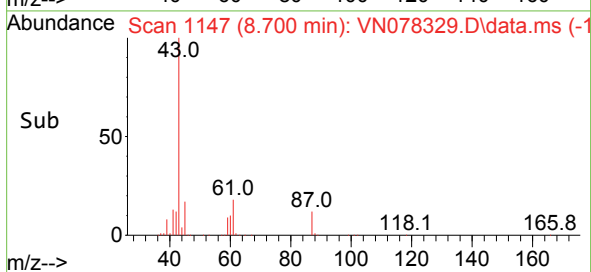
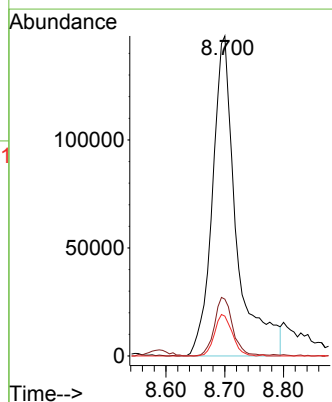
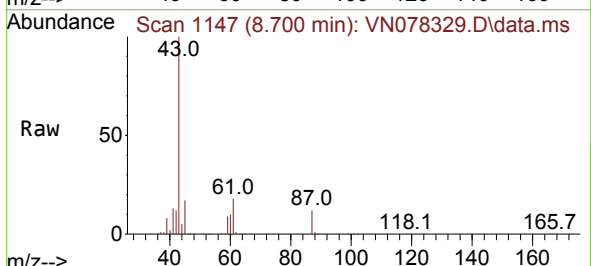
Tgt Ion: 43 Resp: 419394

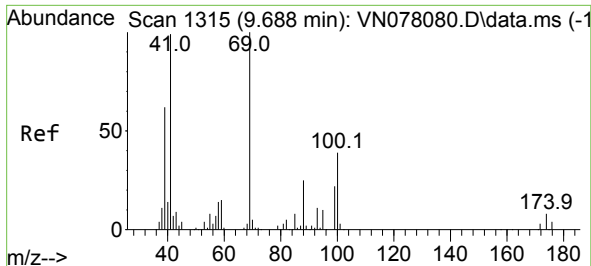
Ion Ratio Lower Upper

43 100

61 14.1 24.7 37.1#

87 9.6 14.6 21.8#

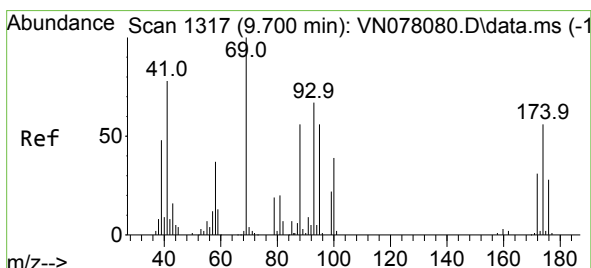
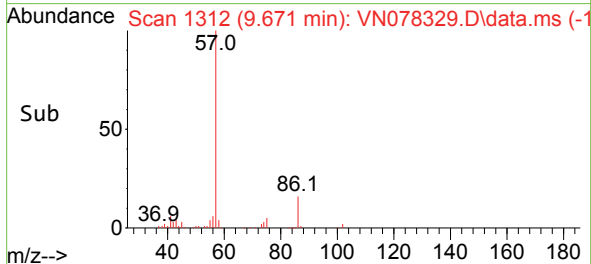
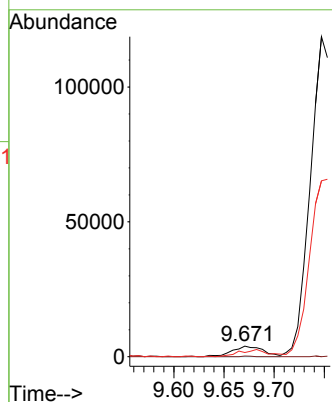
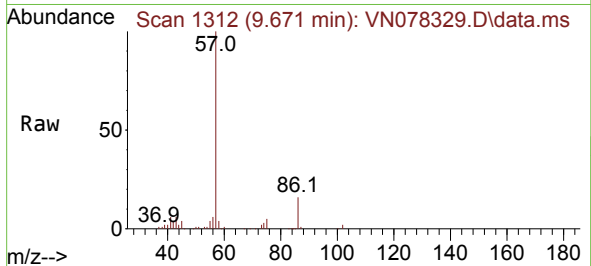




#48
Methyl methacrylate
Concen: 1.770 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

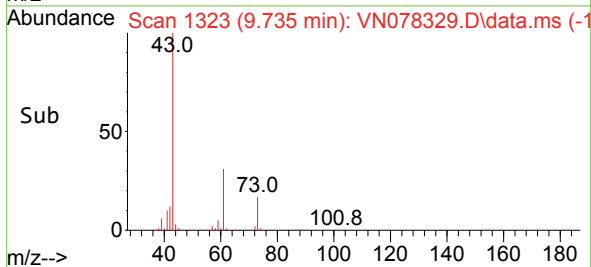
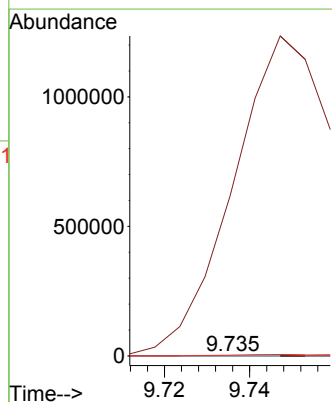
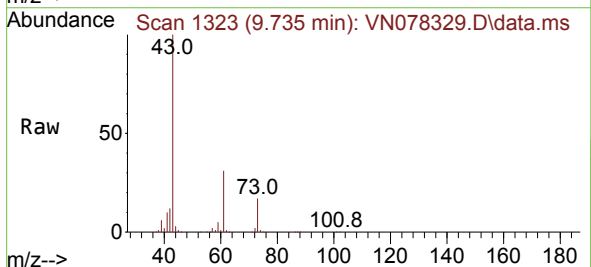
Instrument :
MSVOA_N
ClientSampleId :
WC-2

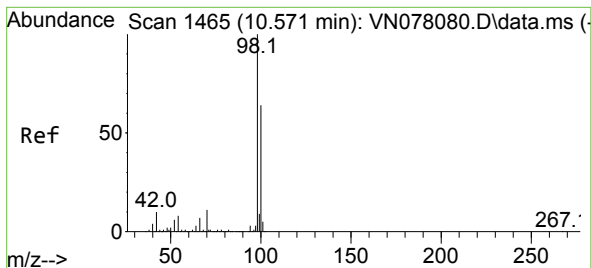
Tgt Ion: 41 Resp: 8490
Ion Ratio Lower Upper
41 100
69 1.6 90.4 135.6#
39 62.8 54.6 81.8



#49
1,4-Dioxane
Concen: 1.439 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.035 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

Tgt Ion: 88 Resp: 145
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

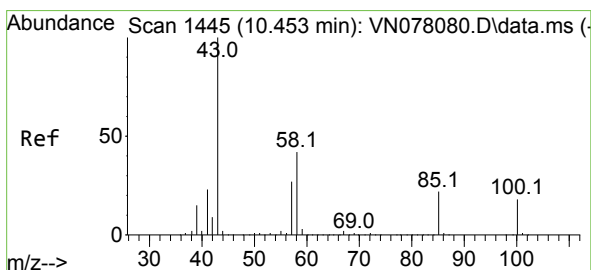
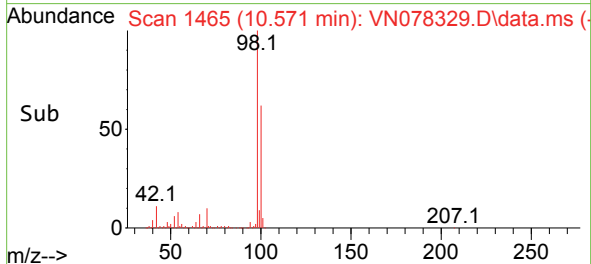
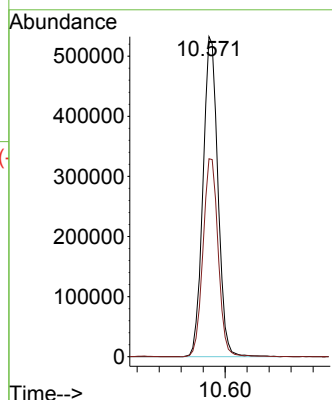
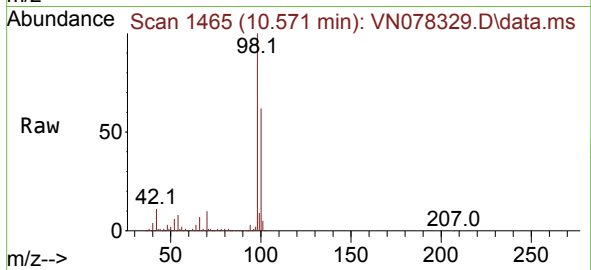




#50
Toluene-d8
Concen: 48.731 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

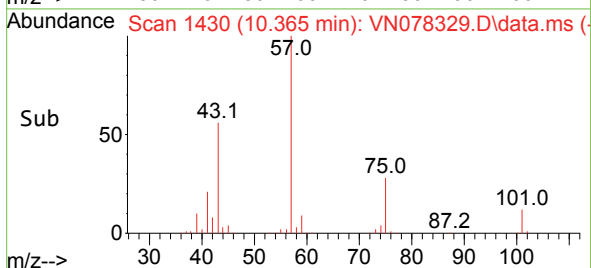
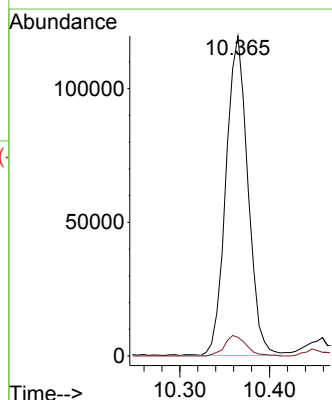
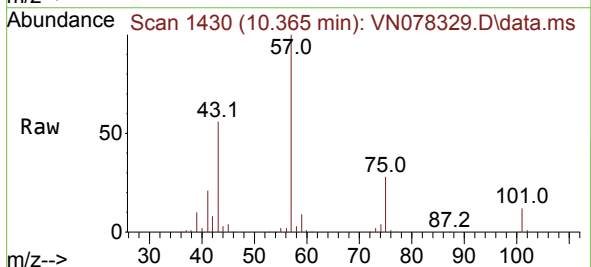
Instrument :
MSVOA_N
ClientSampleId :
WC-2

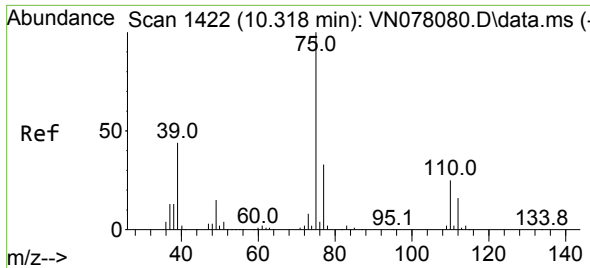
Tgt Ion: 98 Resp: 1001740
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 33.734 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.088 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

Tgt Ion: 43 Resp: 202989
Ion Ratio Lower Upper
43 100
58 6.4 36.6 54.8#

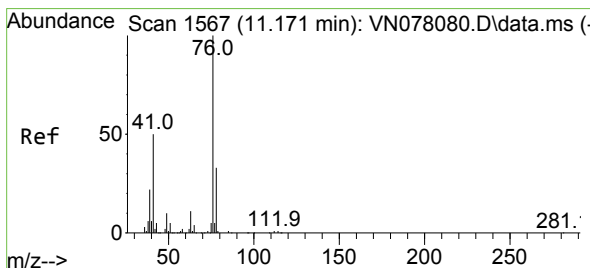
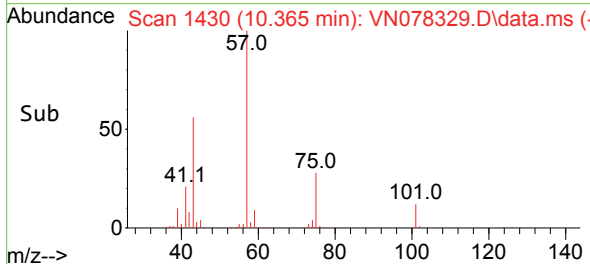
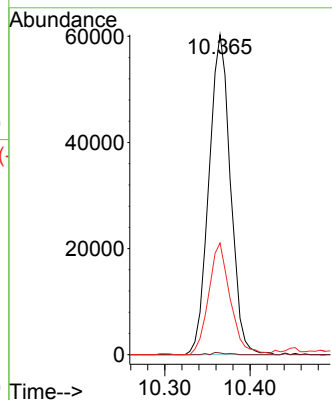
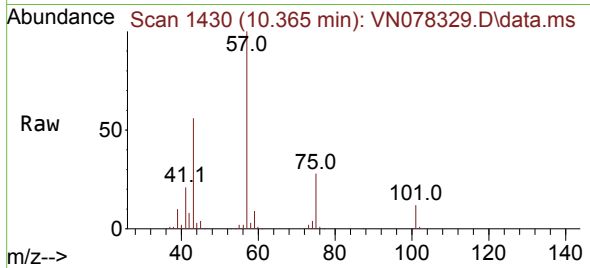




#54
 cis-1,3-Dichloropropene
 Concen: 11.820 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN078329.D
 Acq: 21 Jun 2023 17:59

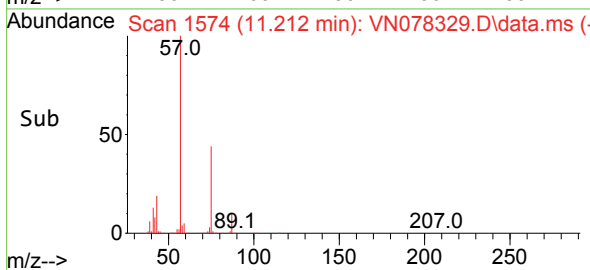
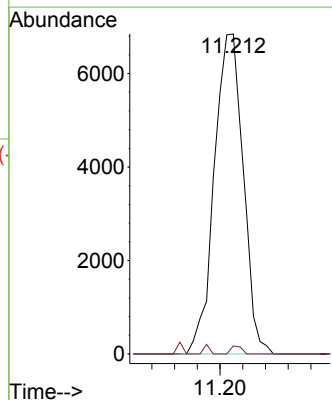
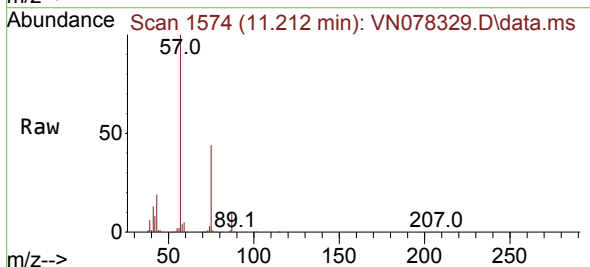
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-2

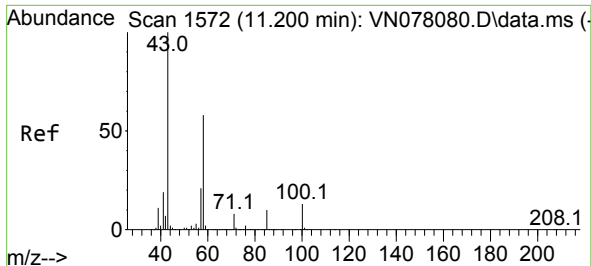
Tgt Ion: 75 Resp: 105766
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.1 39.1#
 39 34.9 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 1.316 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.041 min
 Lab File: VN078329.D
 Acq: 21 Jun 2023 17:59

Tgt Ion: 76 Resp: 12118
 Ion Ratio Lower Upper
 76 100
 78 0.9 26.1 39.1#

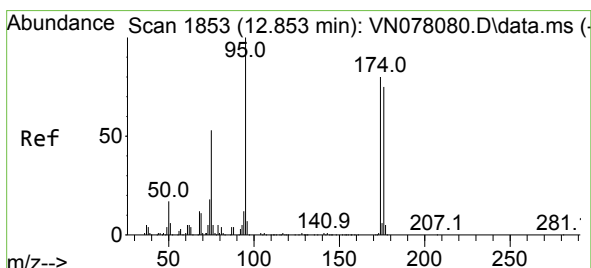
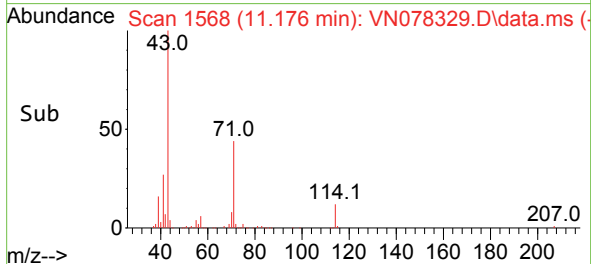
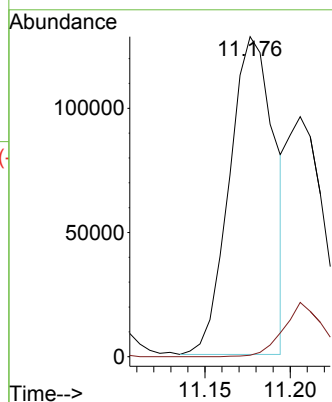
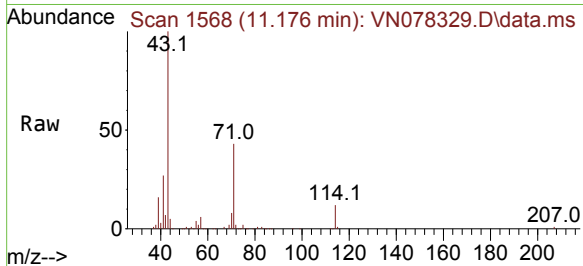




#59
2-Hexanone
Concen: 56.073 ug/l
RT: 11.176 min Scan# 11176
Delta R.T. -0.023 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

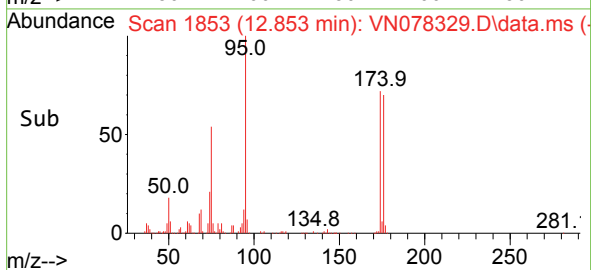
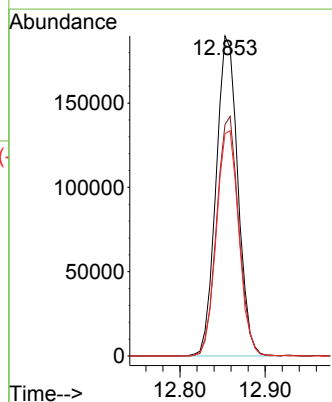
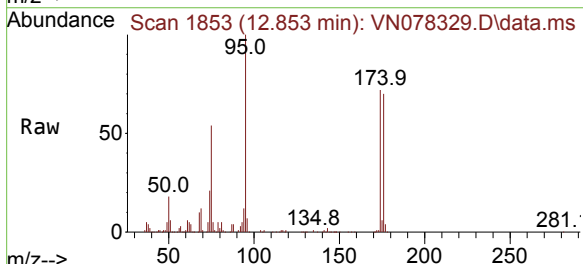
Instrument :
MSVOA_N
ClientSampleId :
WC-2

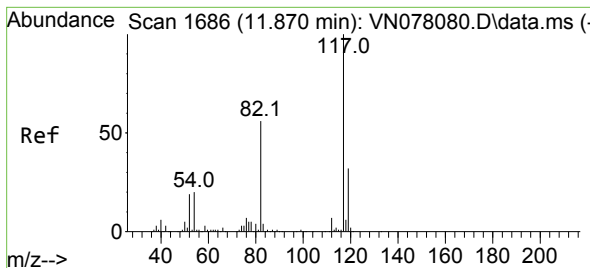
Tgt Ion: 43 Resp: 234933
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 52.720 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

Tgt Ion: 95 Resp: 336906
Ion Ratio Lower Upper
95 100
174 76.2 0.0 143.8
176 72.4 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: VN078329.D

Acq: 21 Jun 2023 17:59

Instrument :

MSVOA_N

ClientSampleId :

WC-2

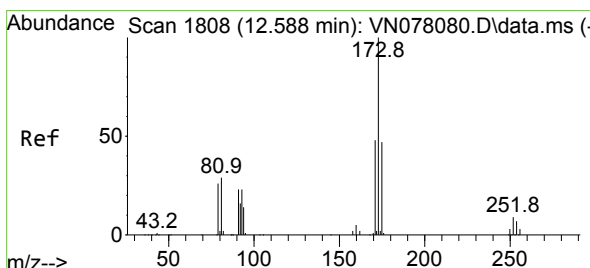
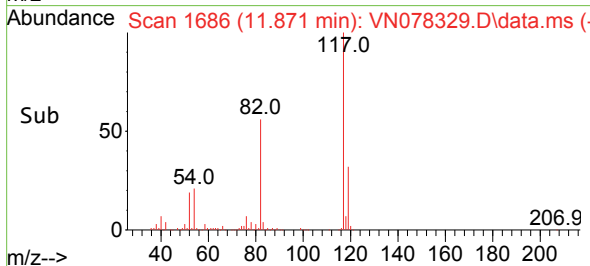
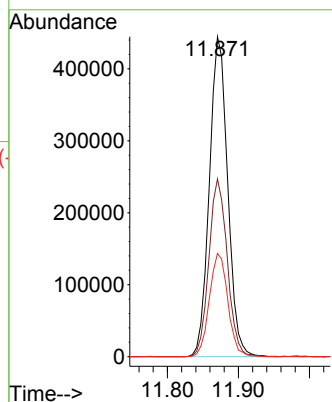
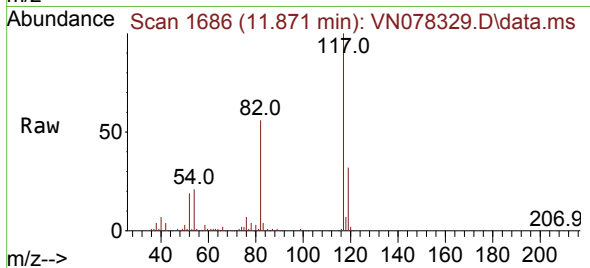
Tgt Ion:117 Resp: 796882

Ion Ratio Lower Upper

117 100

82 55.5 44.0 66.0

119 32.3 25.6 38.4



#71

Bromoform

Concen: 0.638 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.265 min

Lab File: VN078329.D

Acq: 21 Jun 2023 17:59

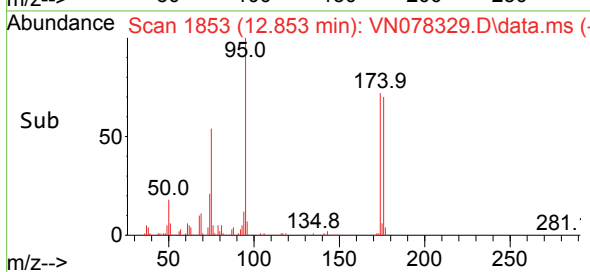
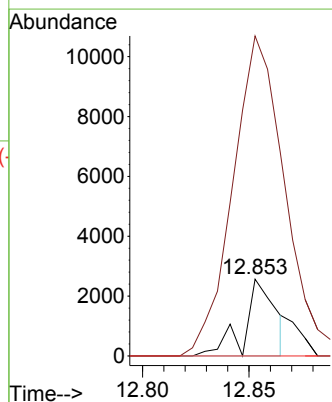
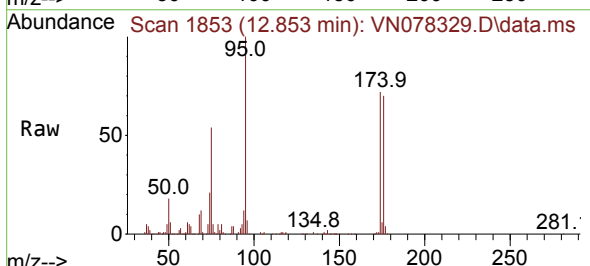
Tgt Ion:173 Resp: 2584

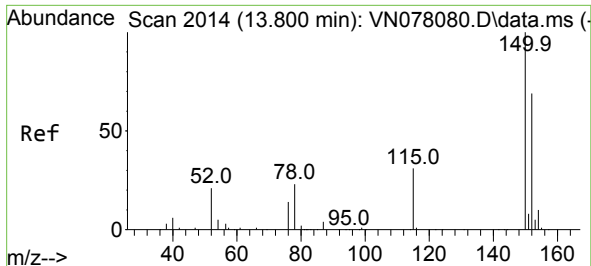
Ion Ratio Lower Upper

173 100

175 601.0 24.3 73.0#

254 0.0 0.0 0.0

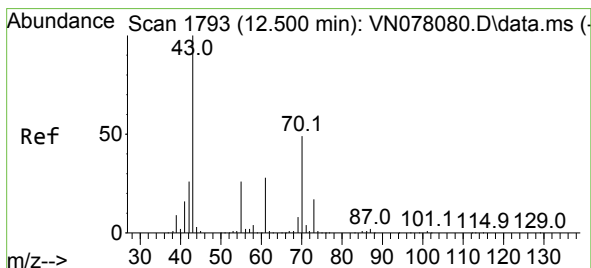
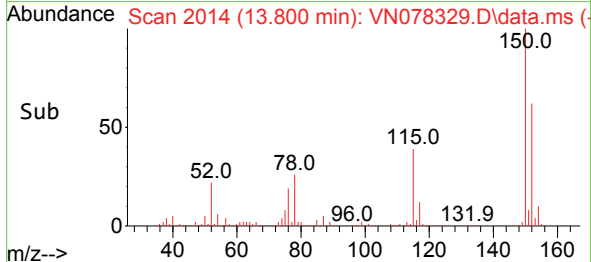
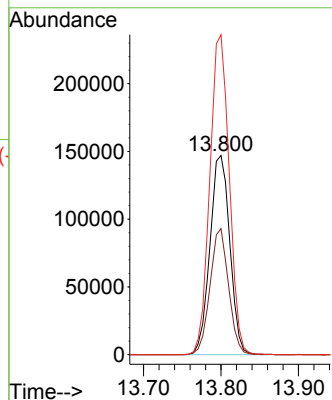
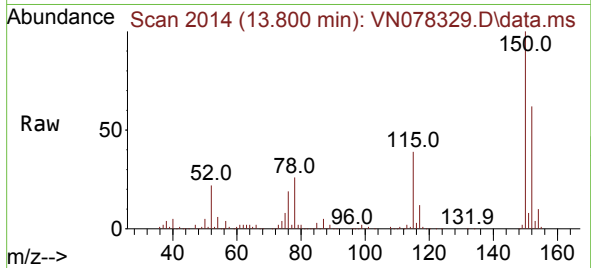




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN078329.D
 Acq: 21 Jun 2023 17:59

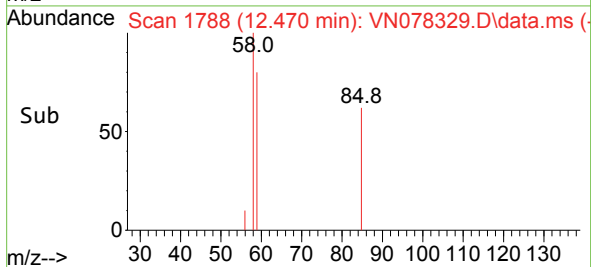
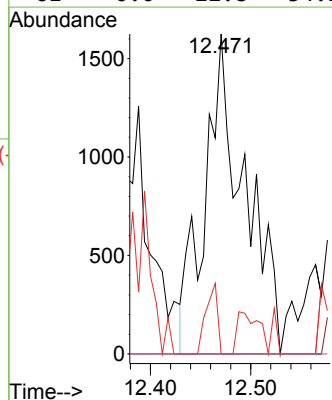
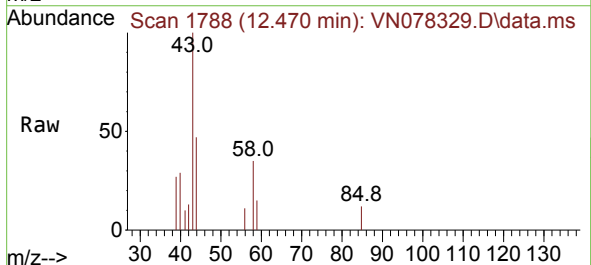
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-2

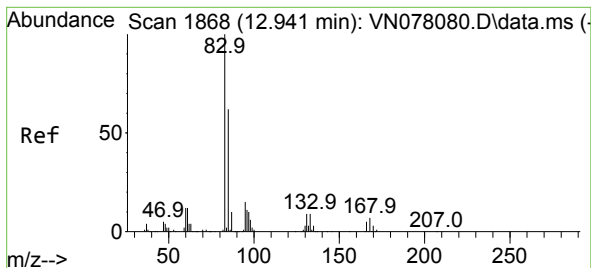
Tgt Ion:152 Resp: 262283
 Ion Ratio Lower Upper
 152 100
 115 59.1 32.3 96.8
 150 156.6 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.550 ug/l
 RT: 12.470 min Scan# 1788
 Delta R.T. -0.029 min
 Lab File: VN078329.D
 Acq: 21 Jun 2023 17:59

Tgt Ion: 43 Resp: 4493
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 6.3 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: VN078329.D

Acq: 21 Jun 2023 17:59

Instrument :

MSVOA_N

ClientSampleId :

WC-2

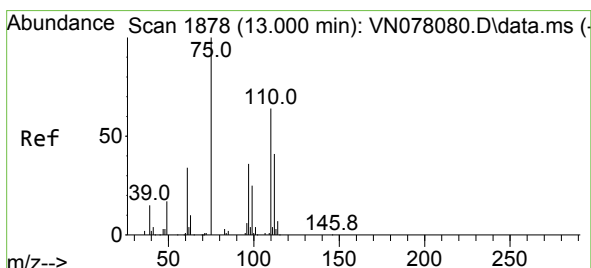
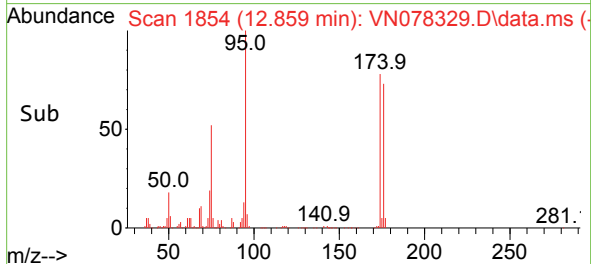
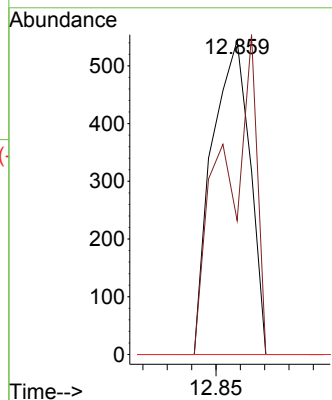
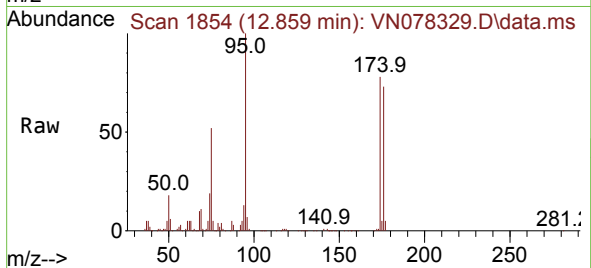
Tgt Ion: 83 Resp: 586

Ion Ratio Lower Upper

83 100

131 87.5 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 29.309 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078329.D

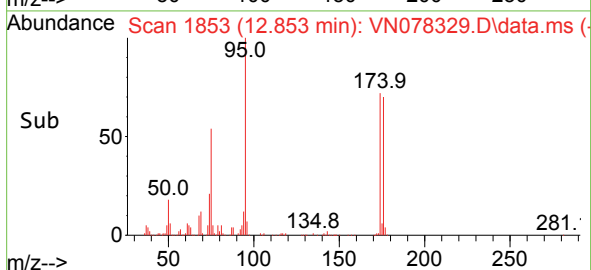
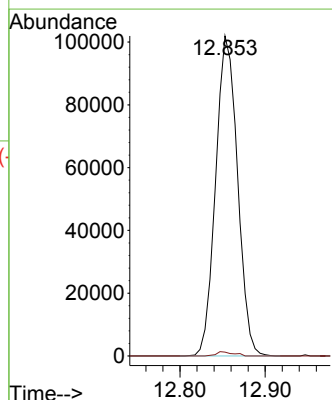
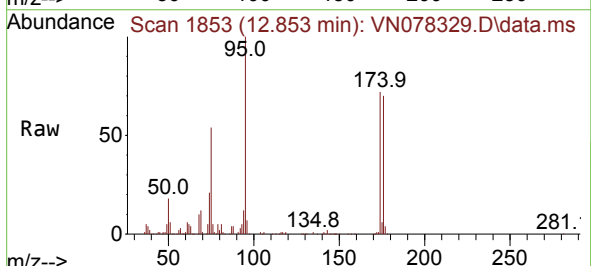
Acq: 21 Jun 2023 17:59

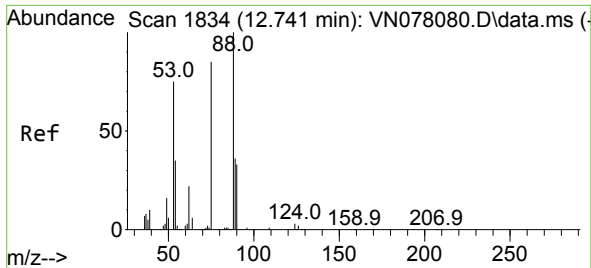
Tgt Ion: 75 Resp: 181727

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#





#81
trans-1,4-Dichloro-2-butene
Concen: 90.045 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078329.D
Acq: 21 Jun 2023 17:59

Instrument :
MSVOA_N
ClientSampleId :
WC-2

Tgt Ion: 75 Resp: 181727
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

