

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078328.D
 Acq On : 21 Jun 2023 17:35
 Operator : JC\MD
 Sample : 03336-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-3

Quant Time: Jun 22 04:52:32 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

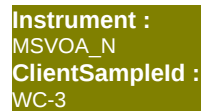
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	442426	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	845811	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	798605	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	248627	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	316658	53.681	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.360%			
35) Dibromofluoromethane	8.177	113	289871	54.202	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.400%			
50) Toluene-d8	10.576	98	1006722	48.830	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.660%			
62) 4-Bromofluorobenzene	12.853	95	325060	50.717	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.440%			
Target Compounds						Qvalue
3) Chloromethane	2.377	50	1180	Below Cal	#	85
5) Bromomethane	2.971	94	1365	0.276	ug/l	93
6) Chloroethane	3.124	64	2336	0.523	ug/l #	43
11) Tert butyl alcohol	5.524	59	2106	2.586	ug/l #	72
16) Acetone	4.459	43	25311	14.907	ug/l #	87
18) Methyl Acetate	5.036	43	2135	0.273	ug/l #	86
20) Methylene Chloride	5.283	84	25268	4.503	ug/l	94
25) 2-Butanone	7.512	43	10944	4.191	ug/l #	71
29) Tetrahydrofuran	7.847	42	761	0.436	ug/l #	20
31) Cyclohexane	8.230	56	11044	1.460	ug/l #	21
36) 1,1-Dichloropropene	8.230	75	39365	5.132	ug/l #	49
37) Ethyl Acetate	7.571	43	56065	9.356	ug/l	96
38) Carbon Tetrachloride	8.235	117	49310	6.088	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	2655	0.338	ug/l #	73
43) Isopropyl Acetate	8.700	43	349124	30.463	ug/l #	77
45) 1,2-Dichloropropane	9.747	63	2855	0.501	ug/l #	45
48) Methyl methacrylate	9.671	41	7775	1.617	ug/l #	30
49) 1,4-Dioxane	9.747	88	267	2.641	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	9599	1.591	ug/l	95
54) cis-1,3-Dichloropropene	10.365	75	103882	11.575	ug/l #	67
56) Ethyl methacrylate	10.988	69	3412	0.428	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	11818	1.280	ug/l #	42
59) 2-Hexanone	11.176	43	231366	55.059	ug/l #	19
71) Bromoform	12.853	173	2377	0.586	ug/l #	1
74) N-amyl acetate	12.494	43	2354	0.304	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	12.953	83	144	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	174907	29.758	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	174907	91.426	ug/l #	15

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

Instrument :
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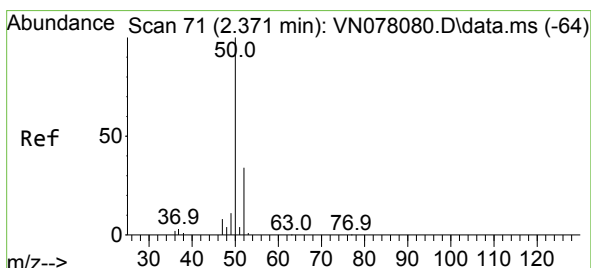
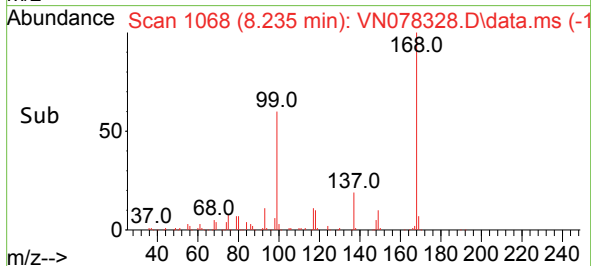
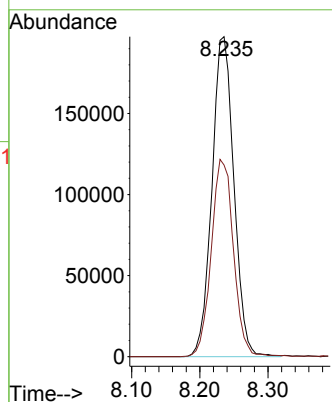
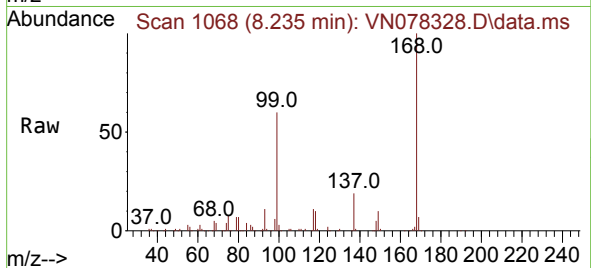




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

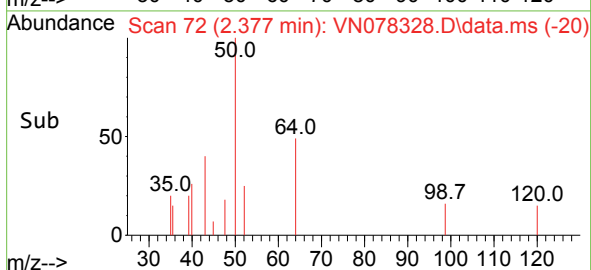
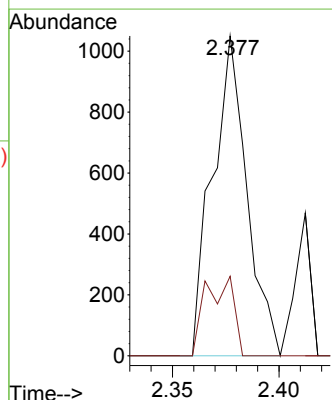
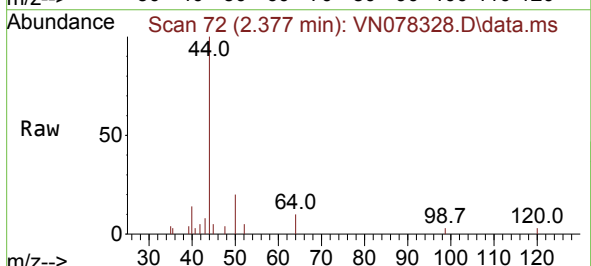
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ClientSampleId :
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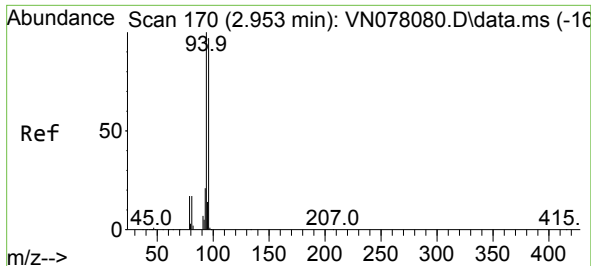
Tgt Ion:168 Resp: 442426
Ion Ratio Lower Upper
168 100
99 59.9 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion: 50 Resp: 1180
Ion Ratio Lower Upper
50 100
52 24.9 26.5 39.7#

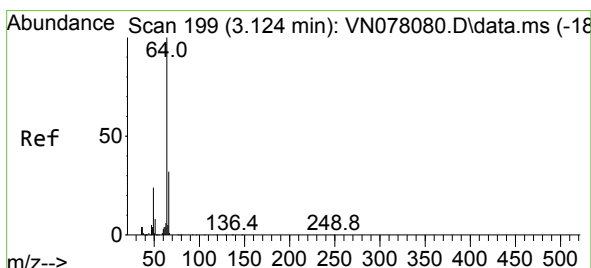
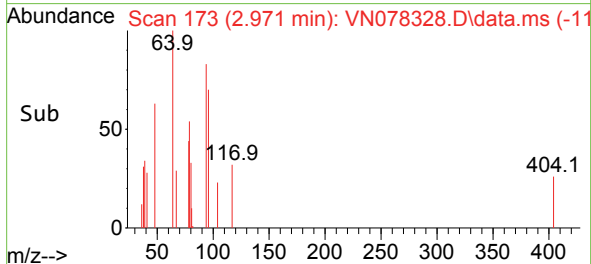
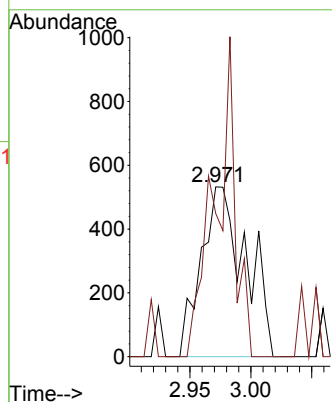
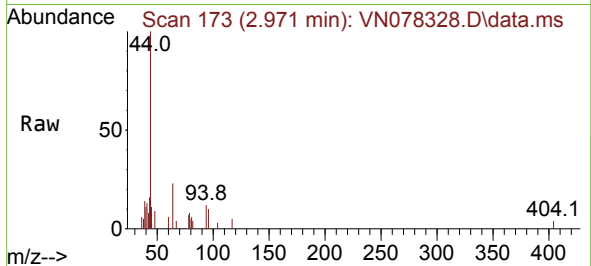




#5
Bromomethane
Concen: 0.276 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

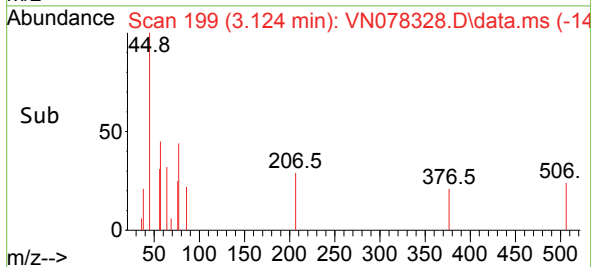
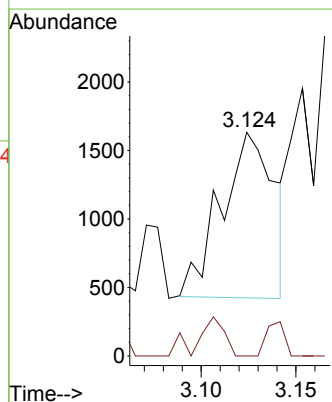
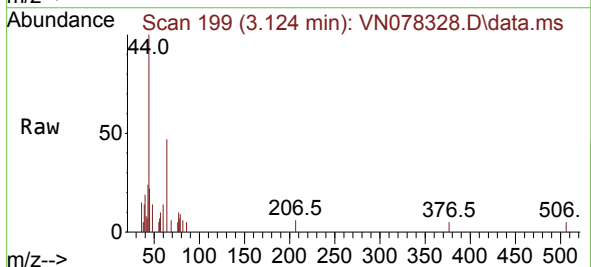
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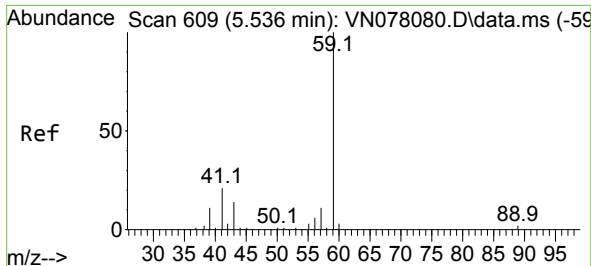
Tgt Ion: 94 Resp: 1365
Ion Ratio Lower Upper
94 100
96 84.4 73.1 109.7



#6
Chloroethane
Concen: 0.523 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion: 64 Resp: 2336
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

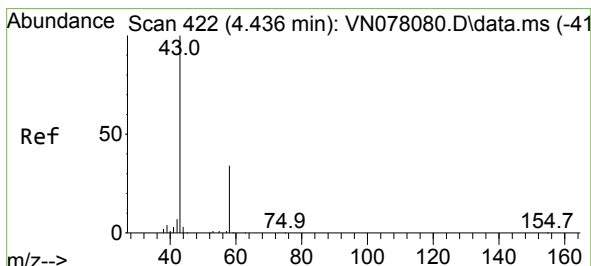
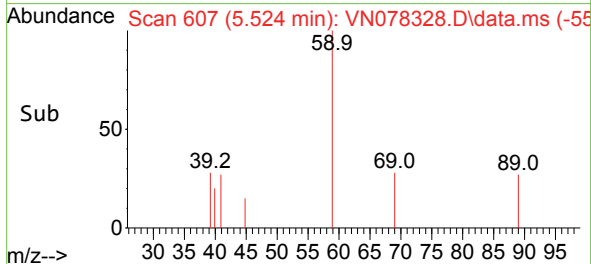
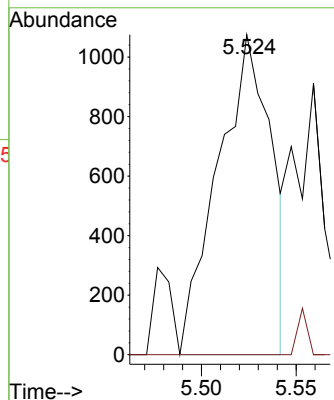
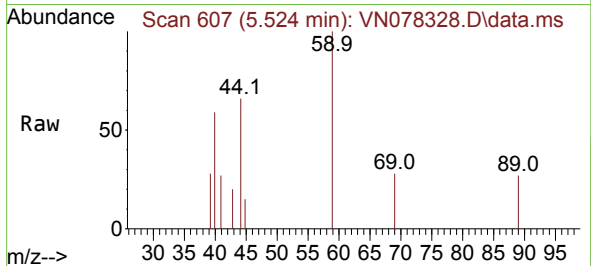




#11
Tert butyl alcohol
Concen: 2.586 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

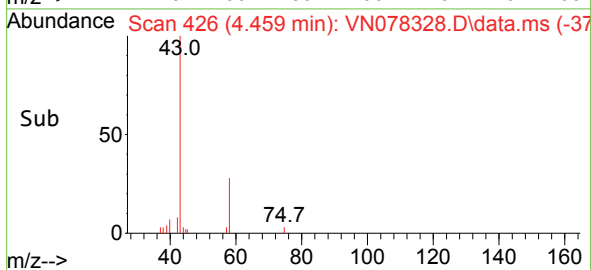
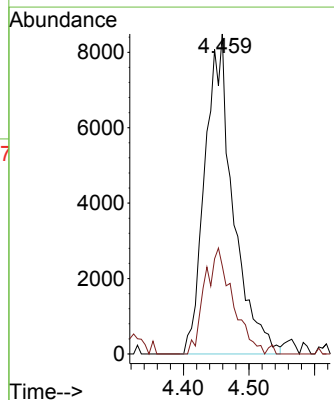
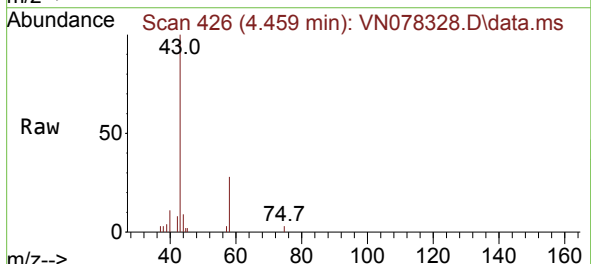
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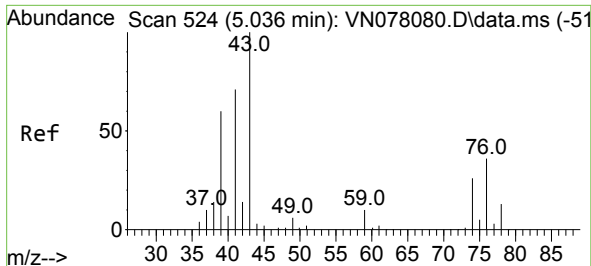
Tgt Ion: 59 Resp: 2106
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 14.907 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.024 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion: 43 Resp: 25311
Ion Ratio Lower Upper
43 100
58 27.5 28.0 42.0#

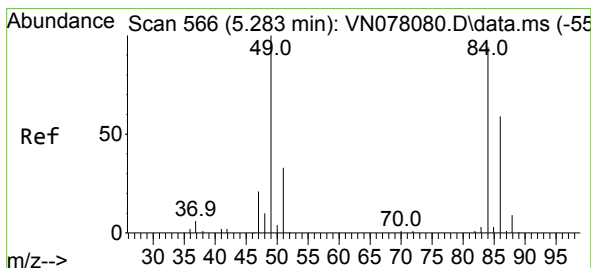
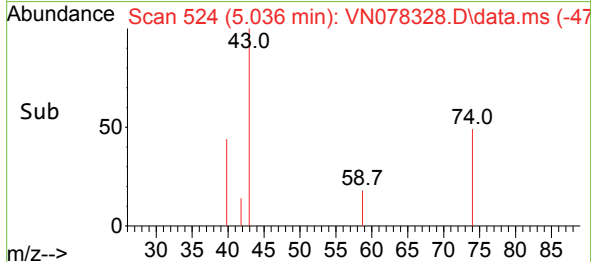
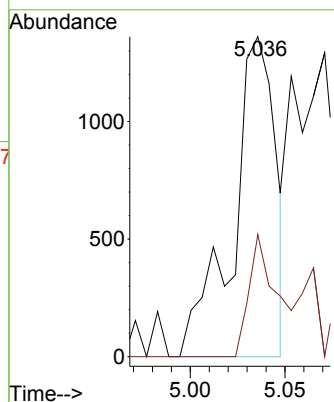
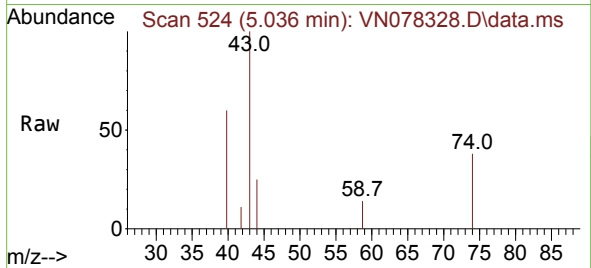




#18
Methyl Acetate
Concen: 0.273 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

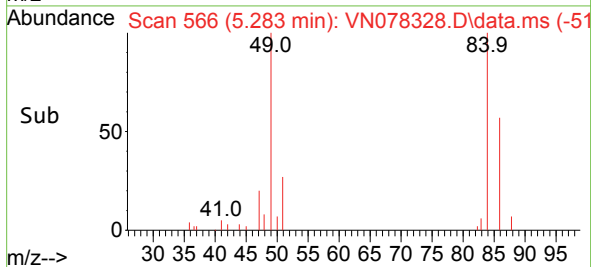
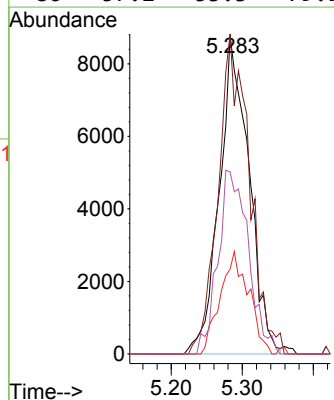
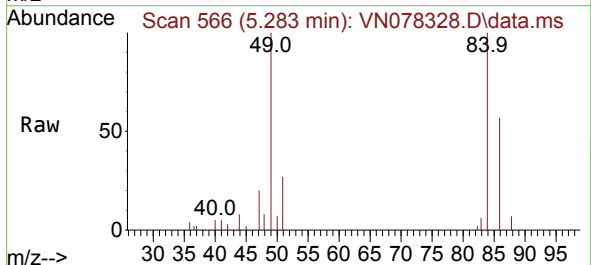
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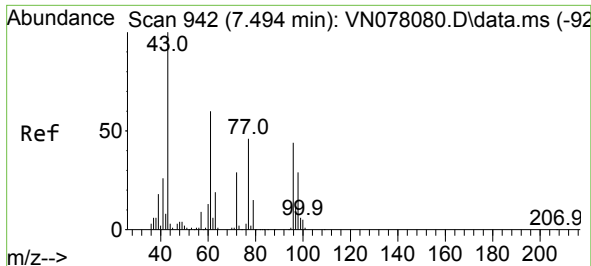
Tgt Ion: 43 Resp: 2135
Ion Ratio Lower Upper
43 100
74 24.8 26.2 39.4#



#20
Methylene Chloride
Concen: 4.503 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.000 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion: 84 Resp: 25268
Ion Ratio Lower Upper
84 100
49 100.5 79.7 119.5
51 26.6 25.2 37.8
86 57.2 53.3 79.9

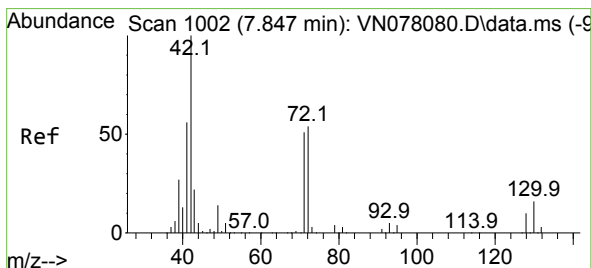
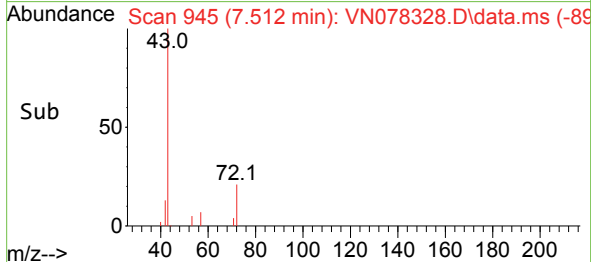
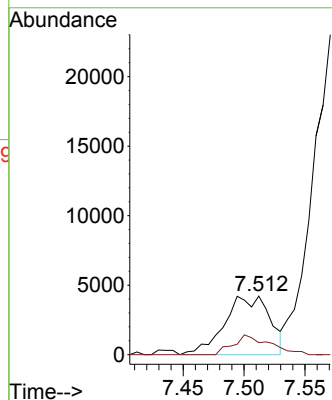
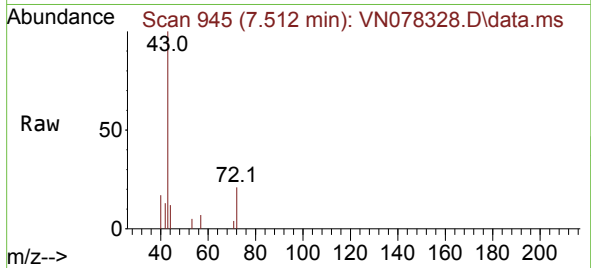




#25
2-Butanone
Concen: 4.191 ug/l
RT: 7.512 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

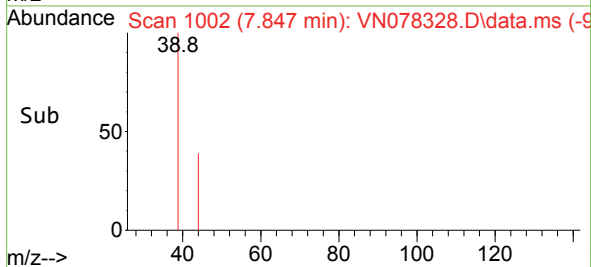
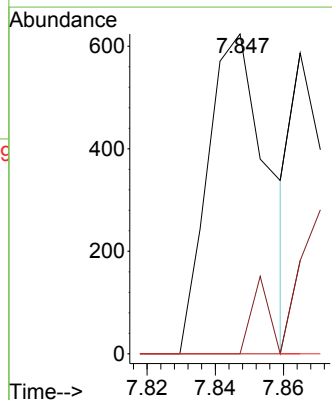
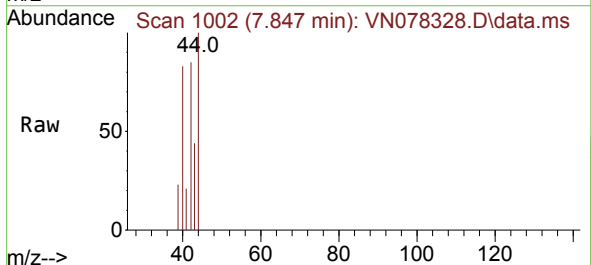
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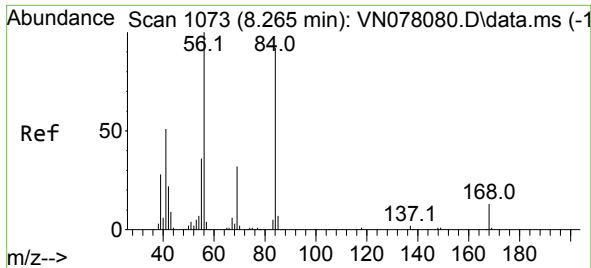
Tgt Ion: 43 Resp: 10944
Ion Ratio Lower Upper
43 100
72 20.6 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.436 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion: 42 Resp: 761
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#

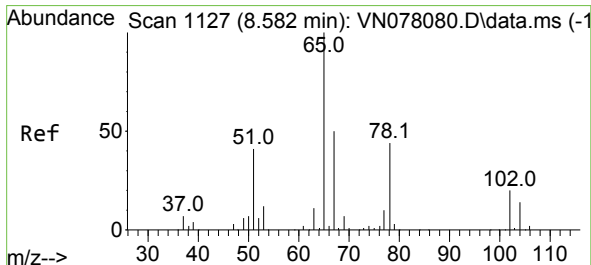
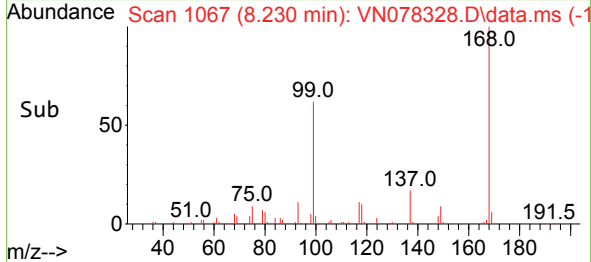
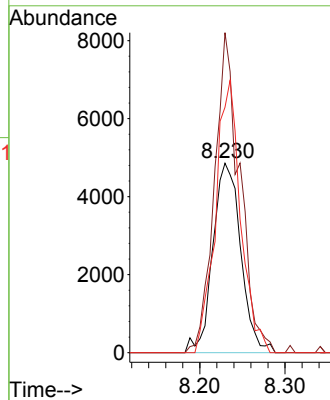
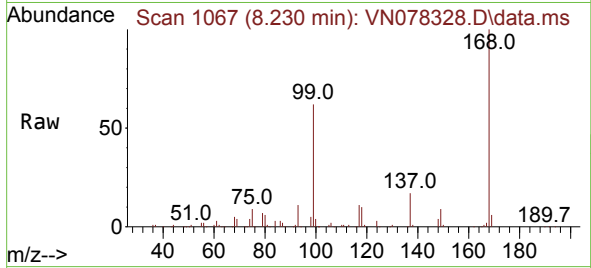




#31
Cyclohexane
Concen: 1.460 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

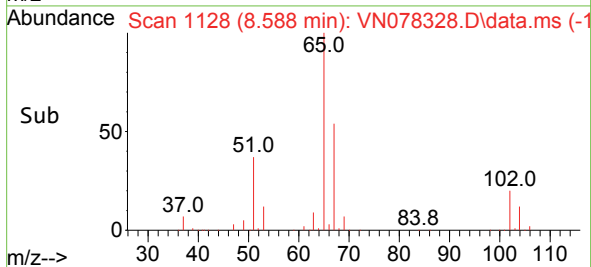
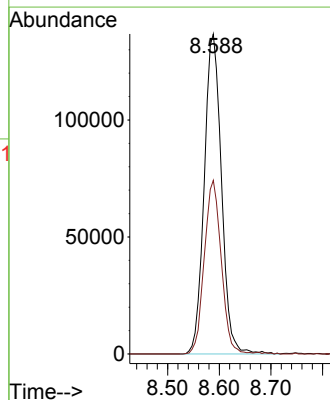
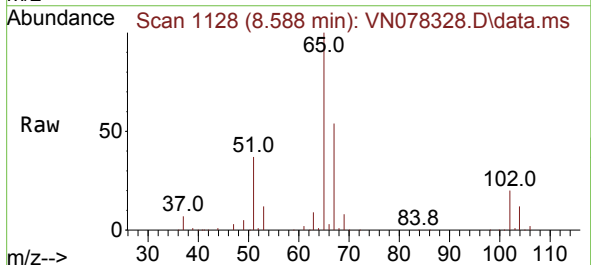
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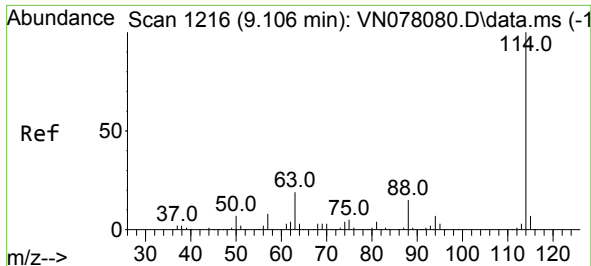
Tgt Ion: 56 Resp: 11044
Ion Ratio Lower Upper
56 100
69 169.0 26.8 40.2#
84 129.6 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 53.681 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion: 65 Resp: 316658
Ion Ratio Lower Upper
65 100
67 53.3 0.0 106.6

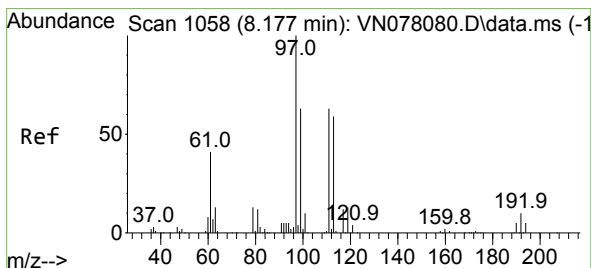
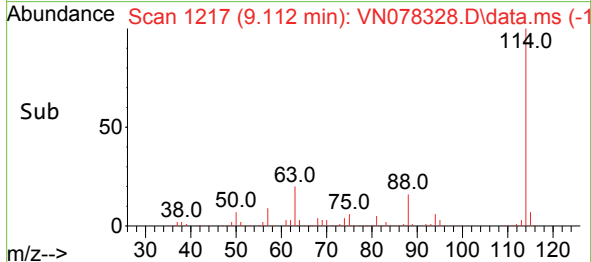
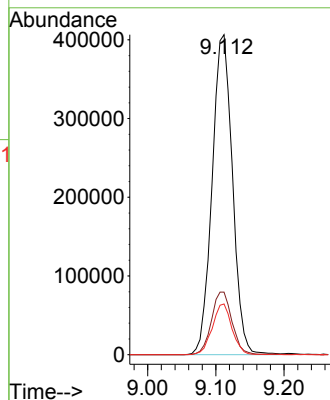
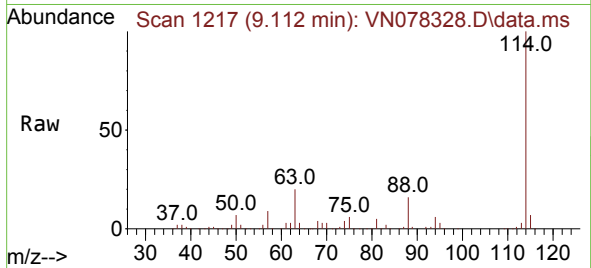




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

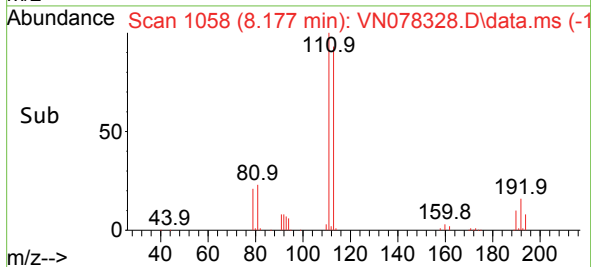
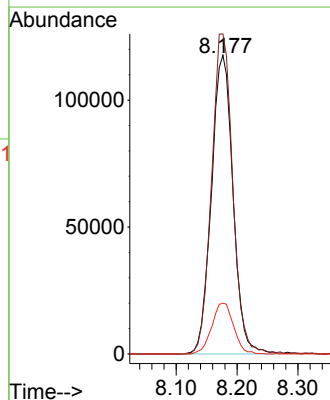
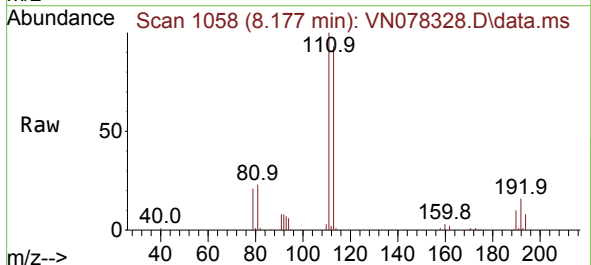
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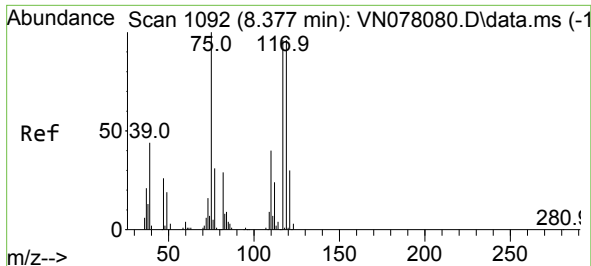
Tgt Ion:114 Resp: 845811
Ion Ratio Lower Upper
114 100
63 19.6 0.0 36.4
88 15.9 0.0 30.6



#35
Dibromofluoromethane
Concen: 54.202 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion:113 Resp: 289871
Ion Ratio Lower Upper
113 100
111 105.1 82.6 123.8
192 17.2 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.132 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN078328.D

Acq: 21 Jun 2023 17:35

Instrument :

MSVOA_N

ClientSampleId :

WC-3

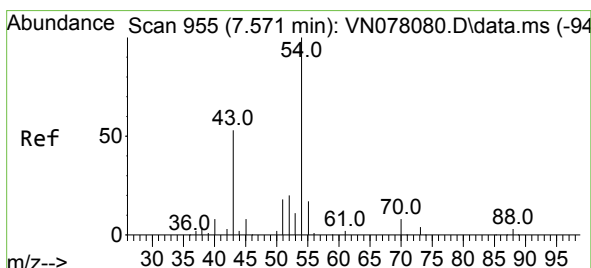
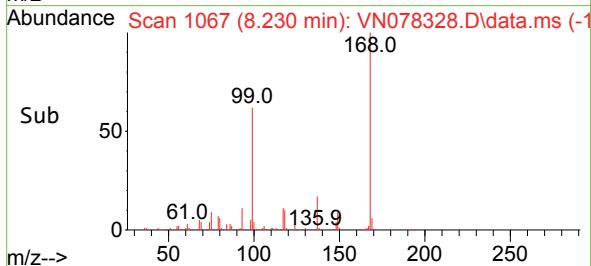
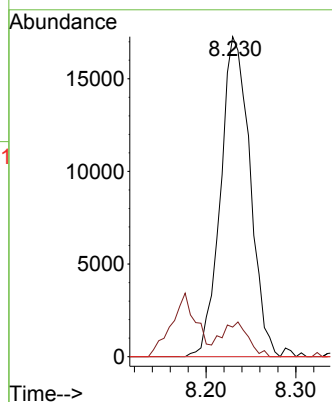
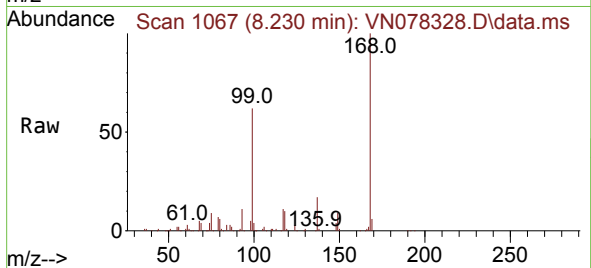
Tgt Ion: 75 Resp: 39365

Ion Ratio Lower Upper

75 100

110 9.8 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 9.356 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.000 min

Lab File: VN078328.D

Acq: 21 Jun 2023 17:35

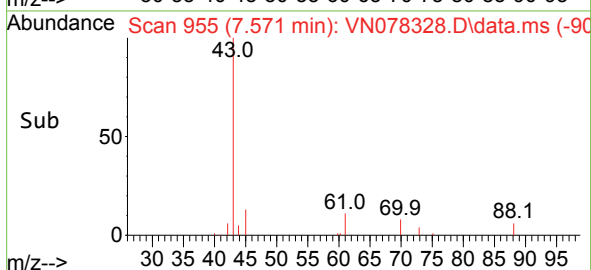
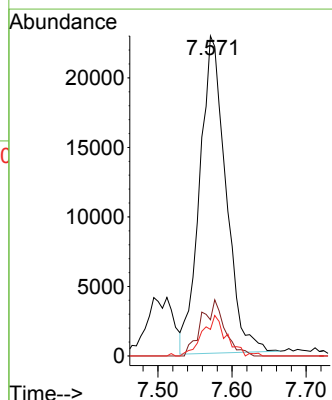
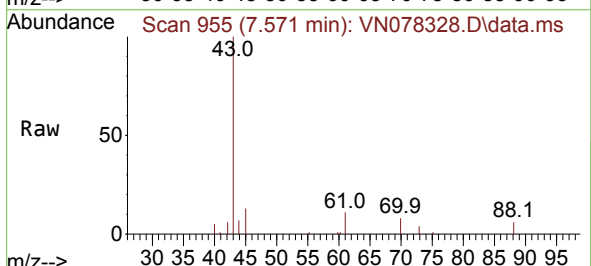
Tgt Ion: 43 Resp: 56065

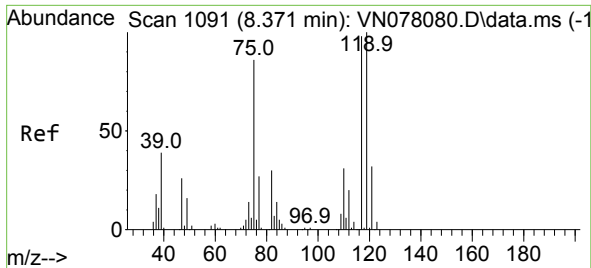
Ion Ratio Lower Upper

43 100

61 15.7 13.2 19.8

70 11.5 11.3 16.9

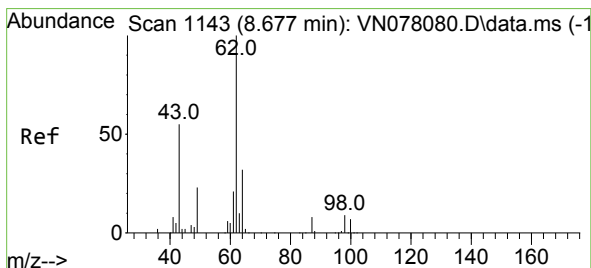
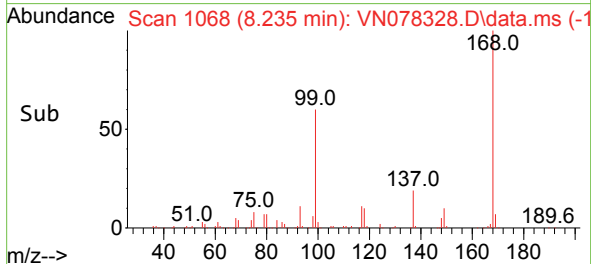
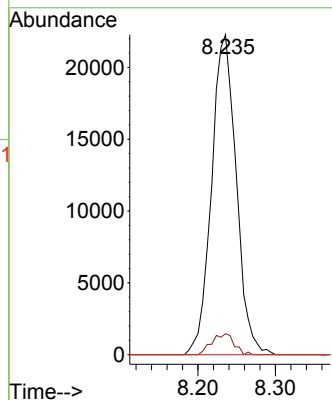
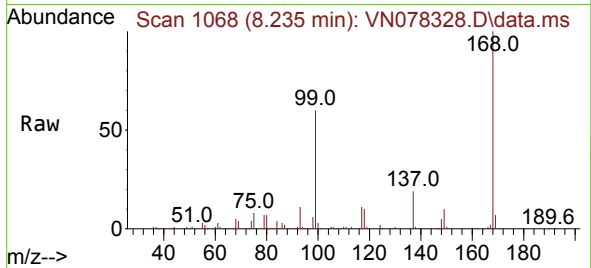




#38
Carbon Tetrachloride
Concen: 6.088 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

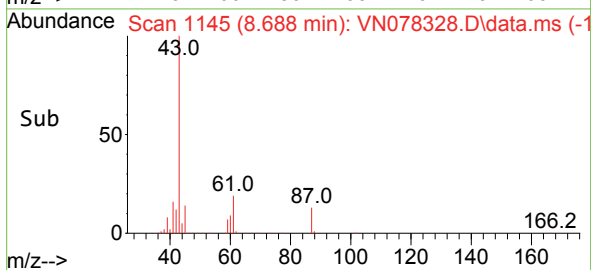
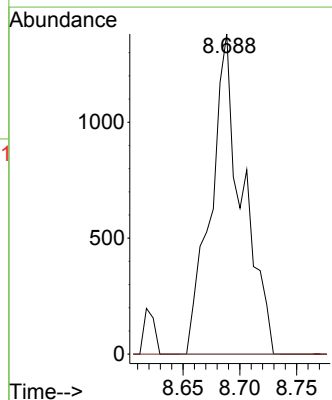
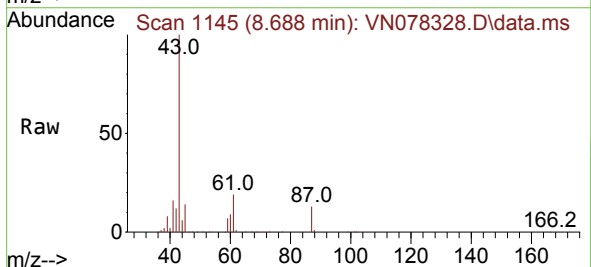
Instrument :
MSVOA_N
ClientSampleId :
WC-3

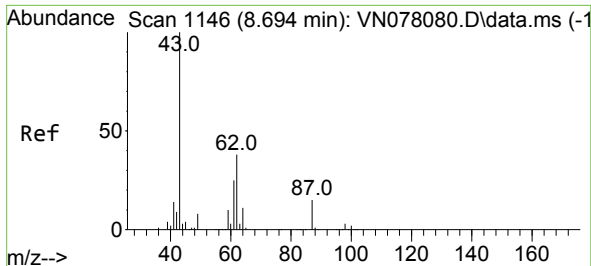
Tgt Ion:117 Resp: 49310
Ion Ratio Lower Upper
117 100
119 6.6 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.338 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.012 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion: 62 Resp: 2655
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

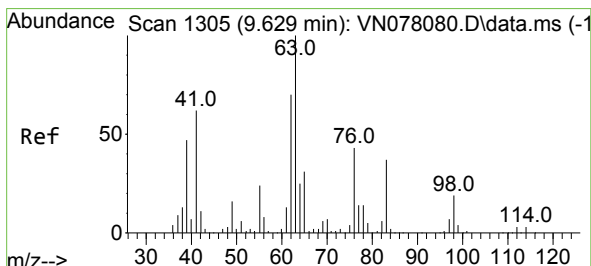
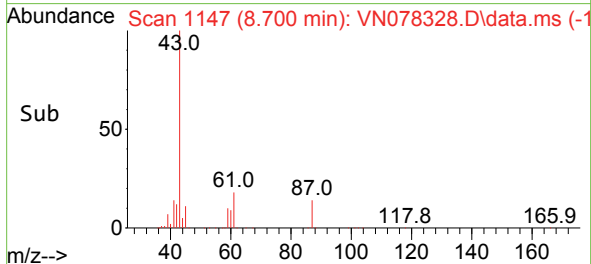
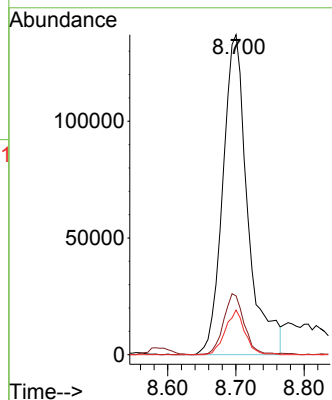
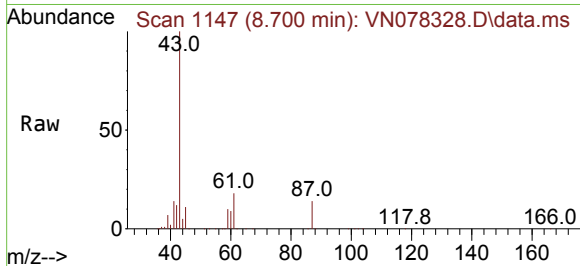




#43
Isopropyl Acetate
Concen: 30.463 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

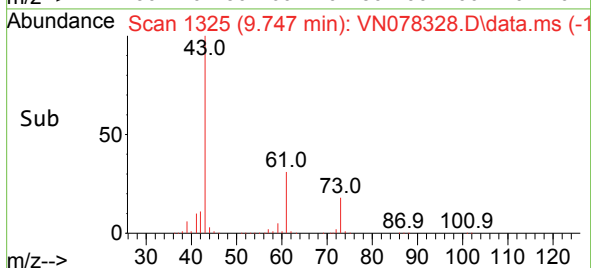
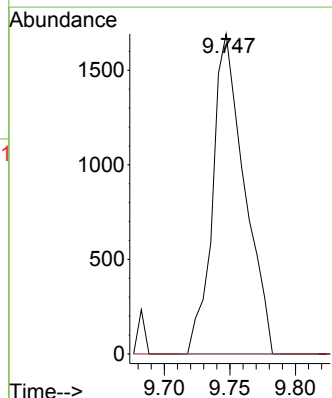
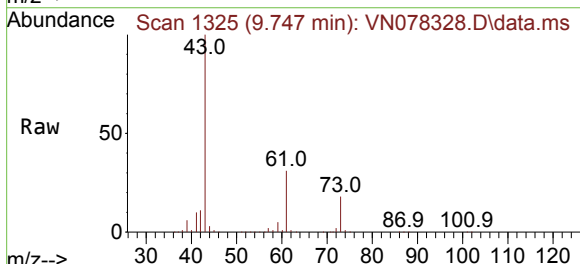
Instrument :
MSVOA_N
ClientSampleId :
WC-3

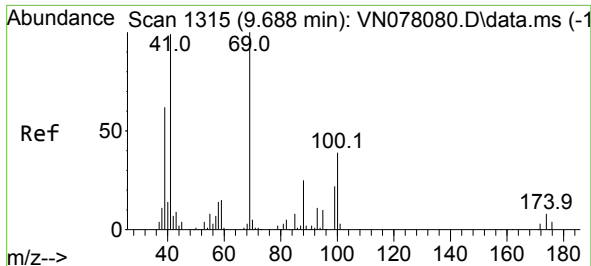
Tgt Ion: 43 Resp: 349124
Ion Ratio Lower Upper
43 100
61 15.7 24.7 37.1#
87 10.9 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.501 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.118 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion: 63 Resp: 2855
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

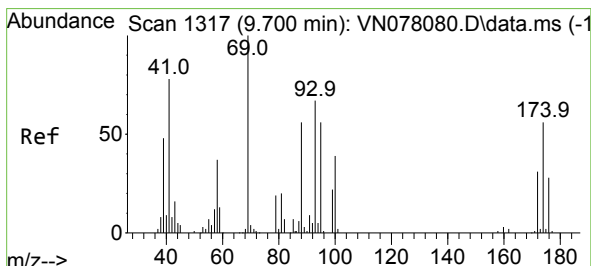
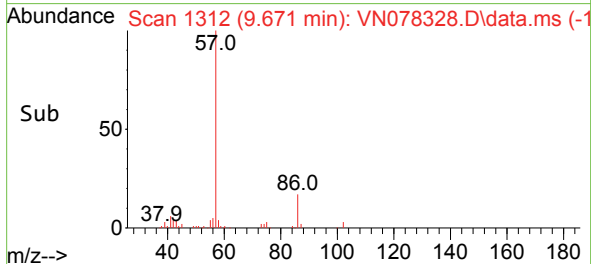
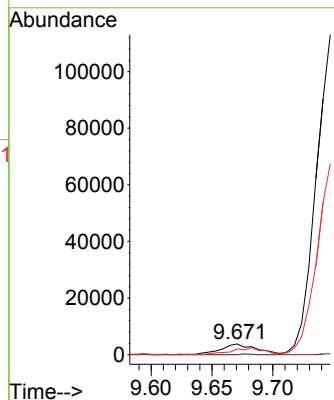
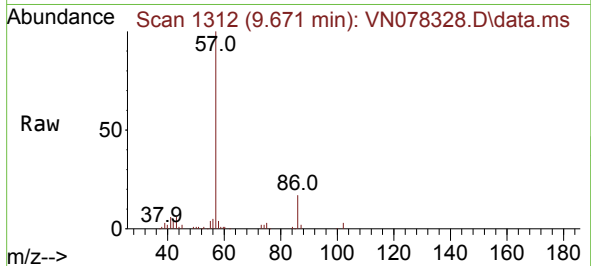




#48
Methyl methacrylate
Concen: 1.617 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

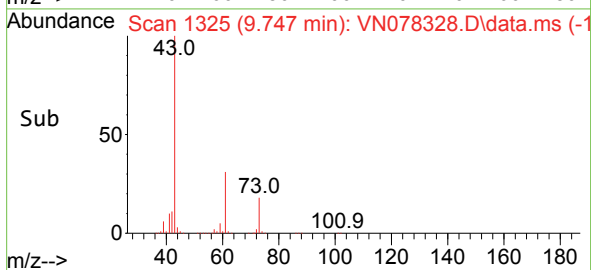
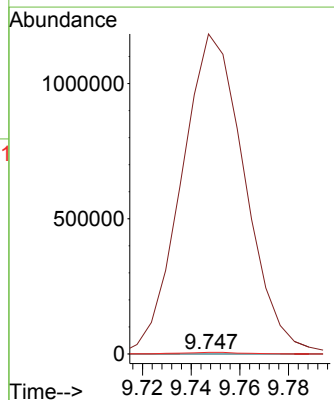
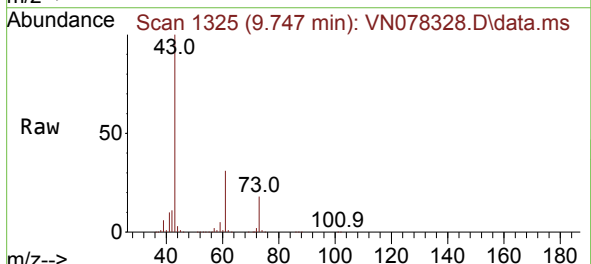
Instrument :
MSVOA_N
ClientSampleId :
WC-3

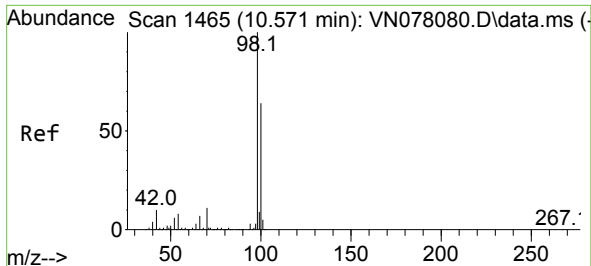
Tgt Ion: 41 Resp: 7775
Ion Ratio Lower Upper
41 100
69 2.1 90.4 135.6#
39 57.1 54.6 81.8



#49
1,4-Dioxane
Concen: 2.641 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.047 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion: 88 Resp: 267
Ion Ratio Lower Upper
88 100
43 811194.0 17.0 25.6#
58 4179.0 47.0 70.4#

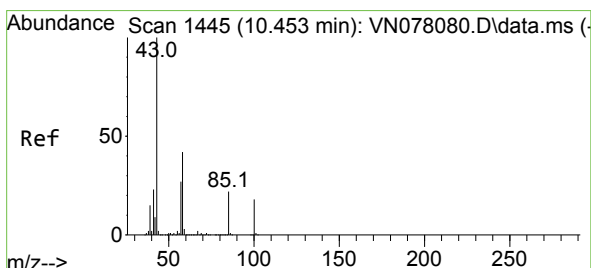
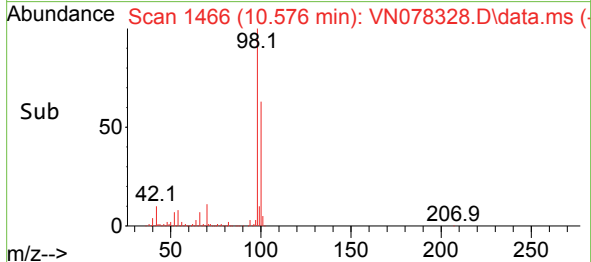
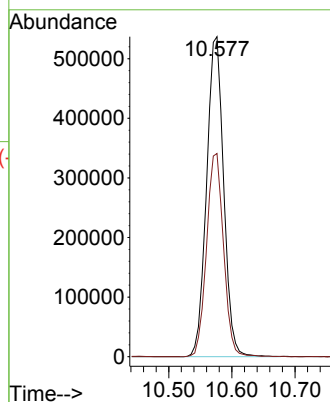
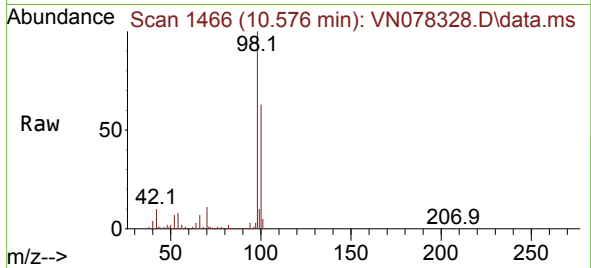




#50
Toluene-d8
Concen: 48.830 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

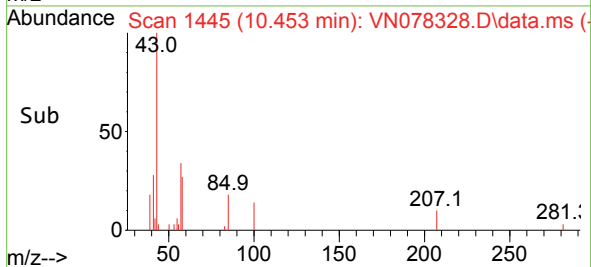
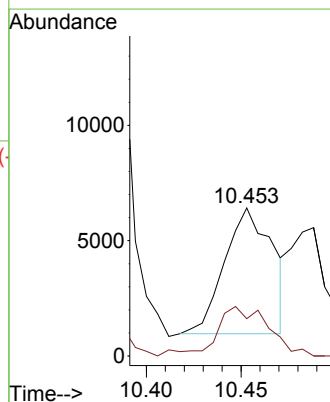
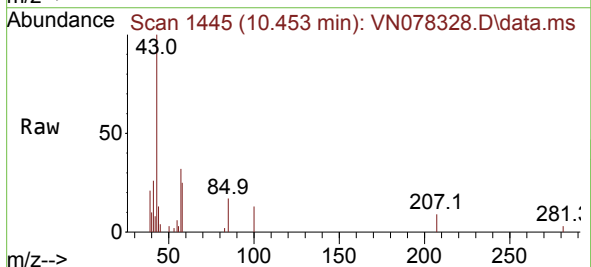
Instrument :
MSVOA_N
ClientSampleId :
WC-3

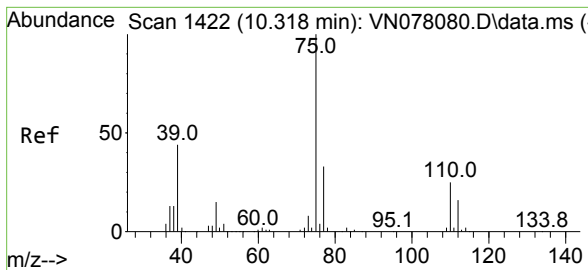
Tgt Ion: 98 Resp: 1006722
Ion Ratio Lower Upper
98 100
100 63.1 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.591 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion: 43 Resp: 9599
Ion Ratio Lower Upper
43 100
58 42.6 36.6 54.8

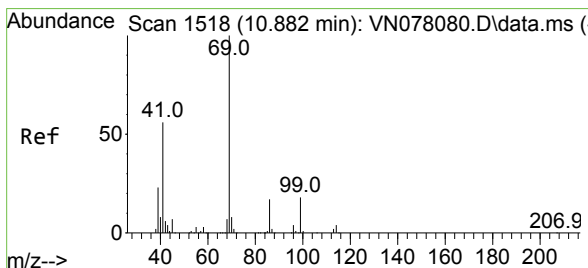
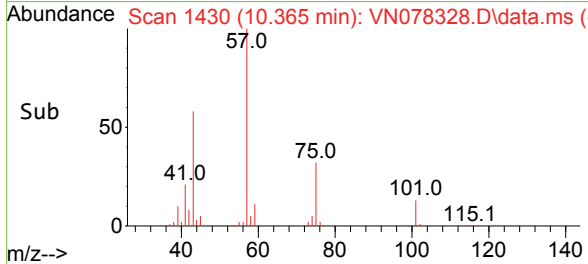
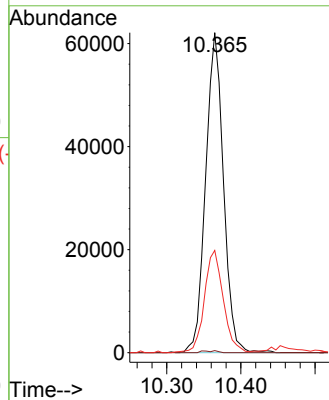
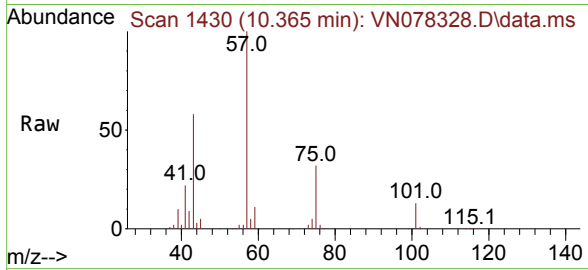




#54
 cis-1,3-Dichloropropene
 Concen: 11.575 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078328.D
 Acq: 21 Jun 2023 17:35

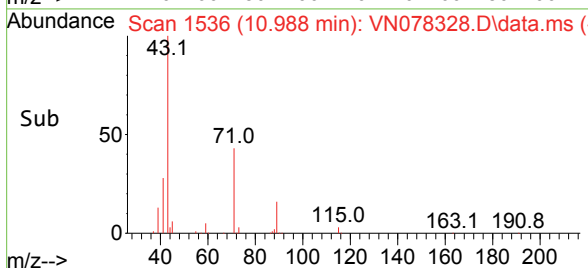
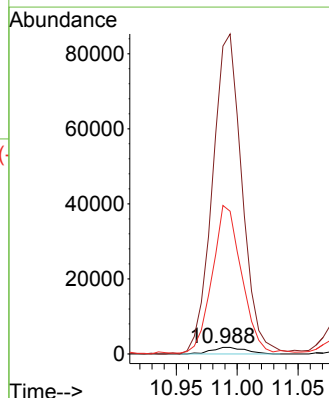
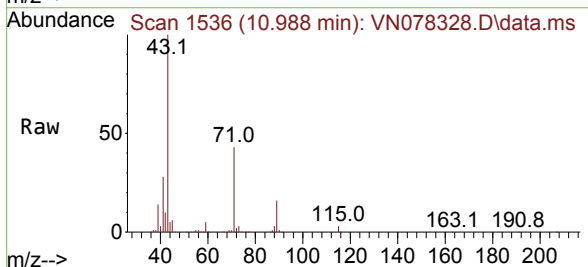
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-3

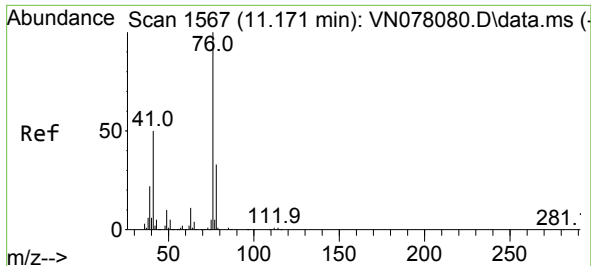
Tgt Ion: 75 Resp: 103882
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 31.6 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.428 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.106 min
 Lab File: VN078328.D
 Acq: 21 Jun 2023 17:35

Tgt Ion: 69 Resp: 3412
 Ion Ratio Lower Upper
 69 100
 41 4211.1 39.6 59.4#
 39 1933.8 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.280 ug/l

RT: 11.206 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN078328.D

Acq: 21 Jun 2023 17:35

Instrument :

MSVOA_N

ClientSampleId :

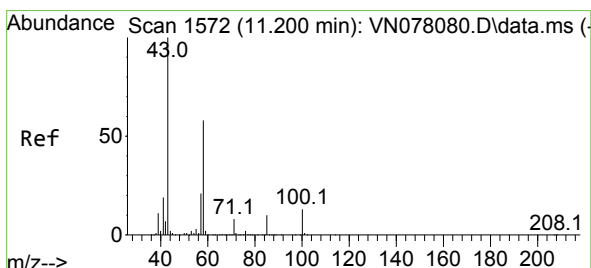
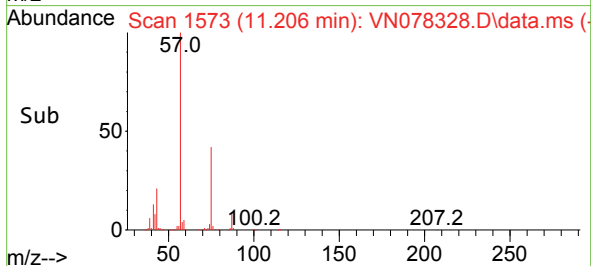
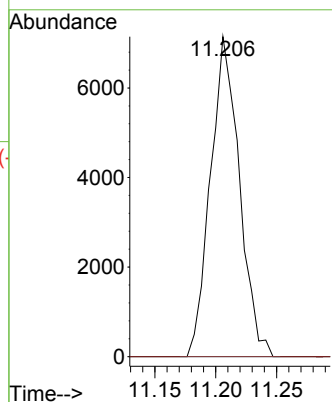
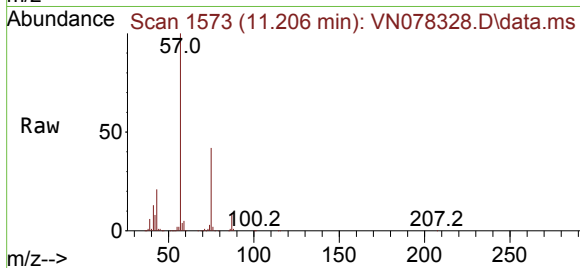
WC-3

Tgt Ion: 76 Resp: 11818

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 55.059 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078328.D

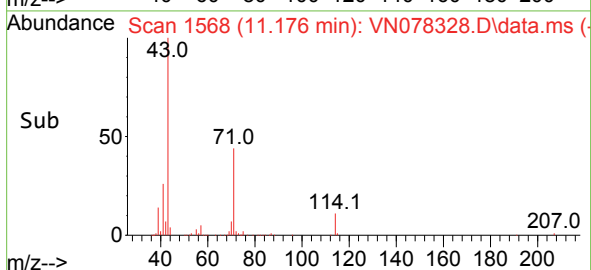
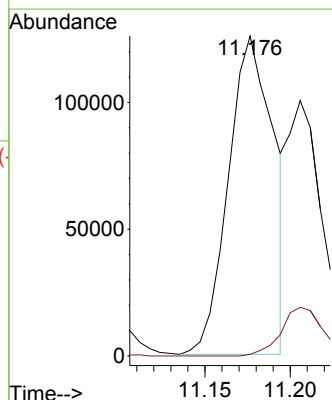
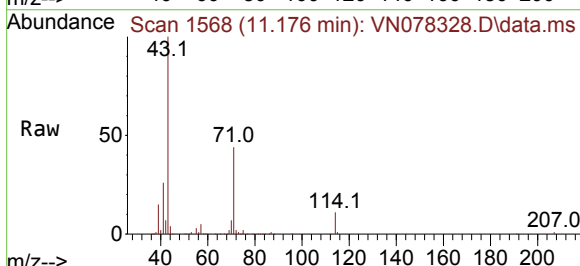
Acq: 21 Jun 2023 17:35

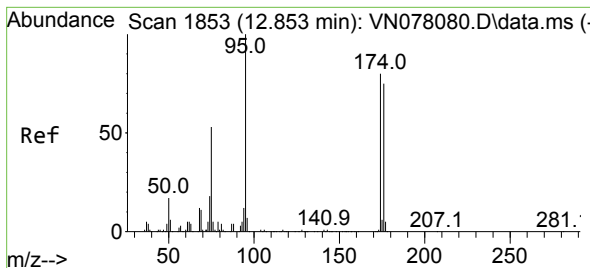
Tgt Ion: 43 Resp: 231366

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

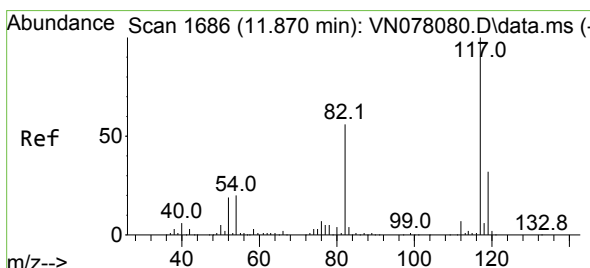
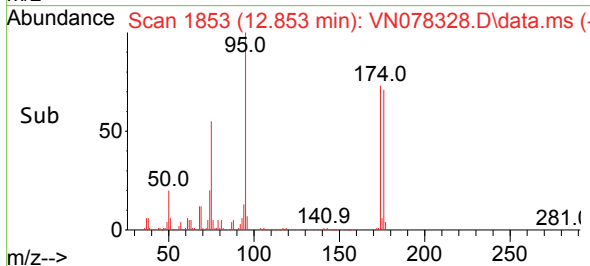
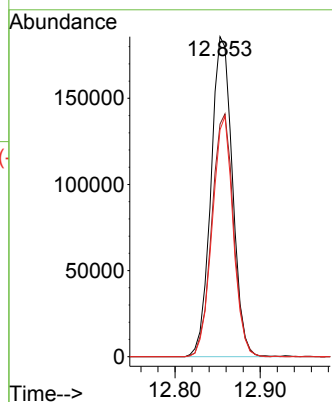
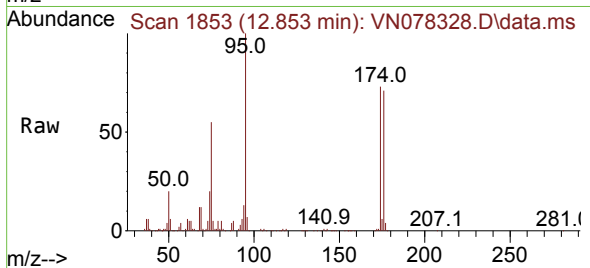




#62
4-Bromofluorobenzene
Concen: 50.717 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

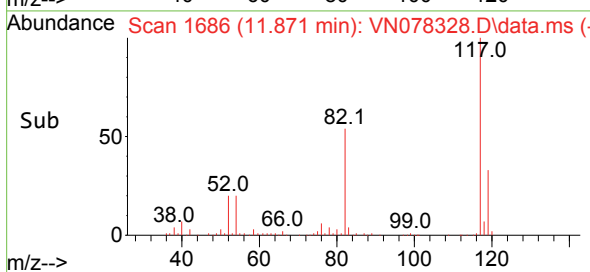
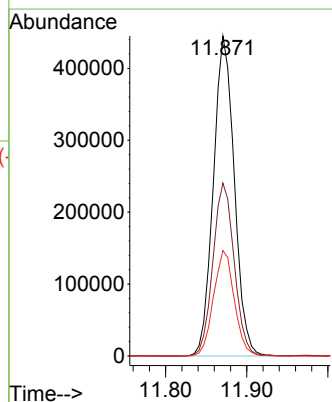
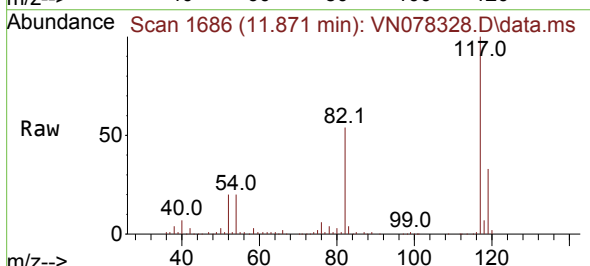
Instrument :
MSVOA_N
ClientSampleId :
WC-3

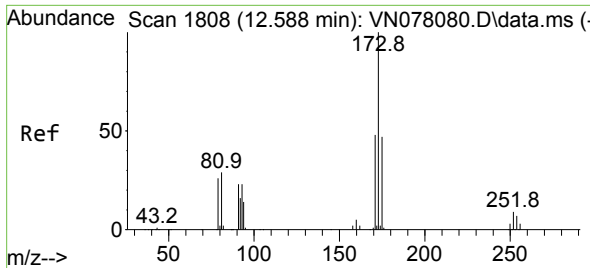
Tgt Ion: 95 Resp: 325060
Ion Ratio Lower Upper
95 100
174 76.8 0.0 143.8
176 73.0 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion: 117 Resp: 798605
Ion Ratio Lower Upper
117 100
82 54.0 44.0 66.0
119 33.0 25.6 38.4

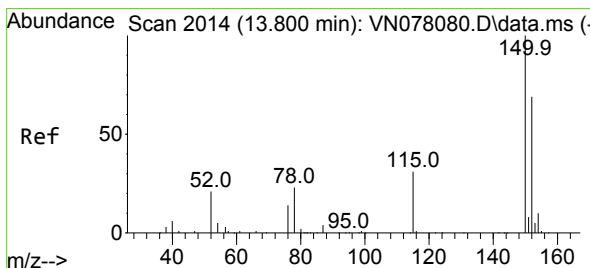
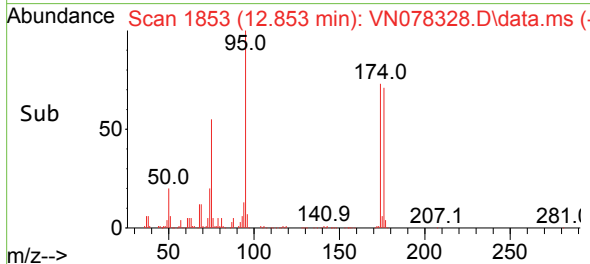
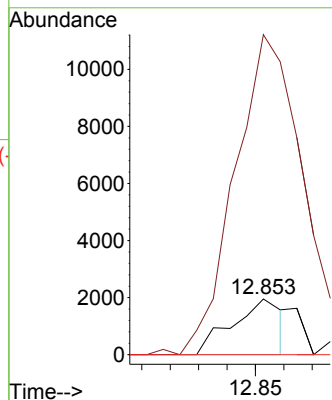
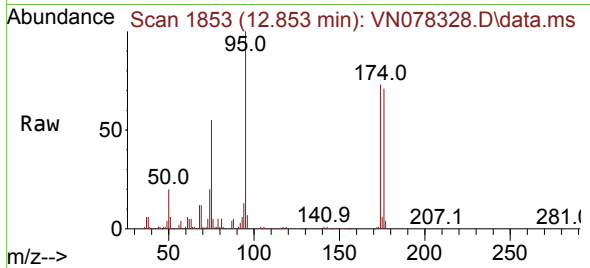




#71
Bromoform
Concen: 0.586 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.265 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

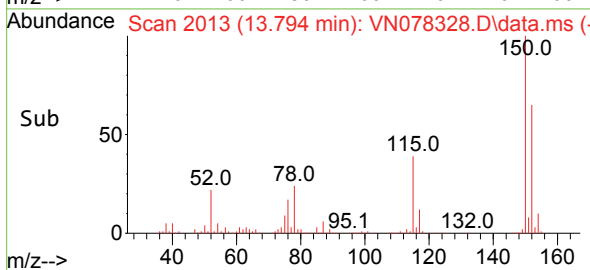
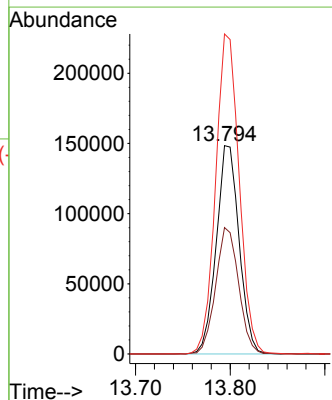
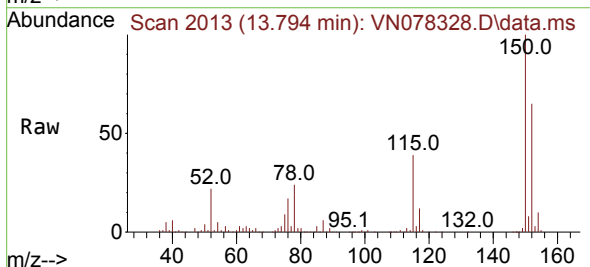
Instrument :
MSVOA_N
ClientSampleId :
WC-3

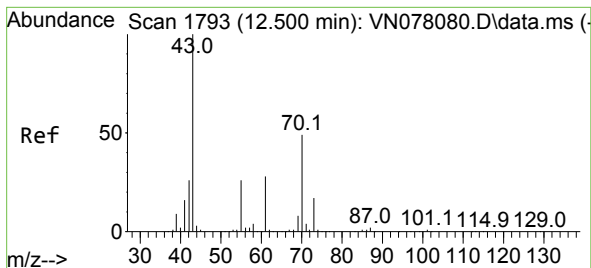
Tgt Ion:173 Resp: 2377
Ion Ratio Lower Upper
173 100
175 683.2 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion:152 Resp: 248627
Ion Ratio Lower Upper
152 100
115 61.2 32.3 96.8
150 158.0 0.0 355.8





#74

N-amy1 acetate

Concen: 0.304 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN078328.D

Acq: 21 Jun 2023 17:35

Instrument :

MSVOA_N

ClientSampleId :

WC-3

Tgt Ion: 43 Resp: 2354

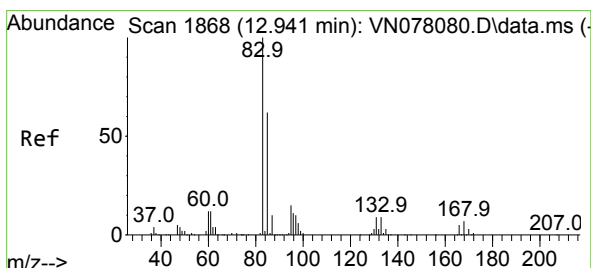
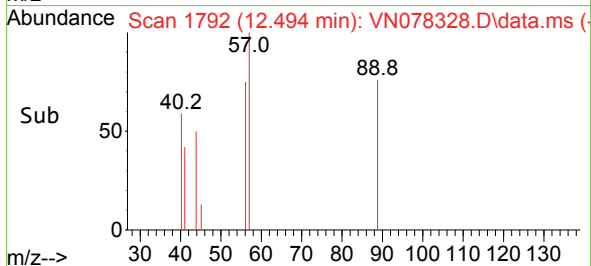
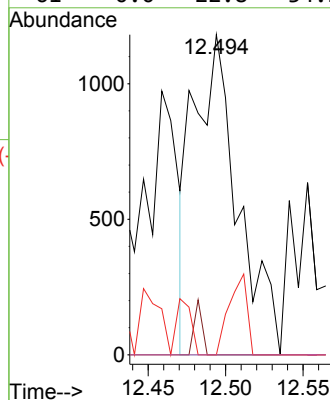
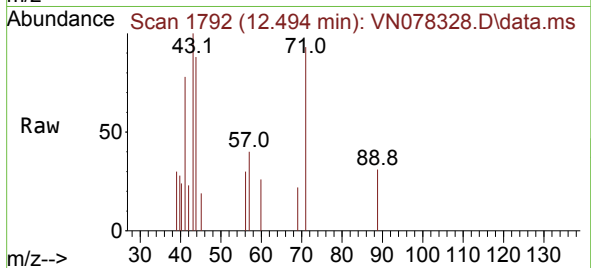
Ion Ratio Lower Upper

43 100

70 3.1 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.953 min Scan# 1870

Delta R.T. 0.012 min

Lab File: VN078328.D

Acq: 21 Jun 2023 17:35

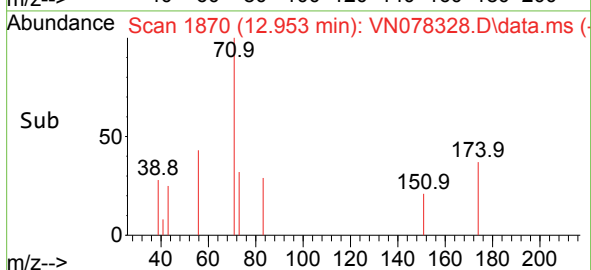
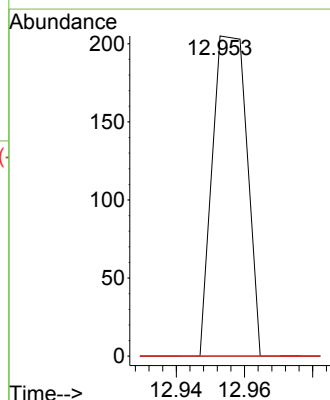
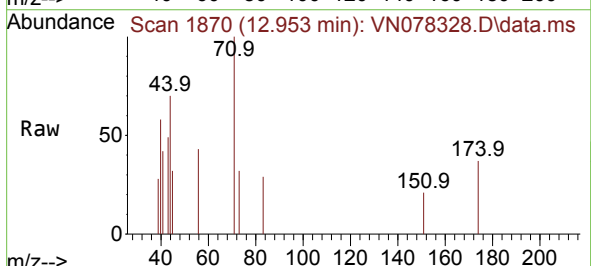
Tgt Ion: 83 Resp: 144

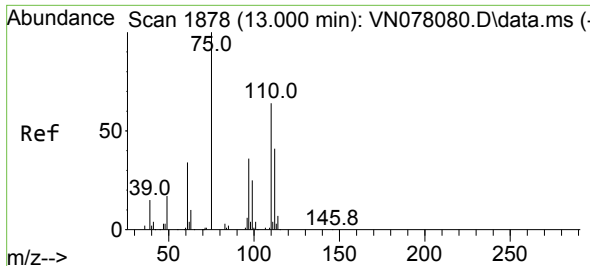
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#

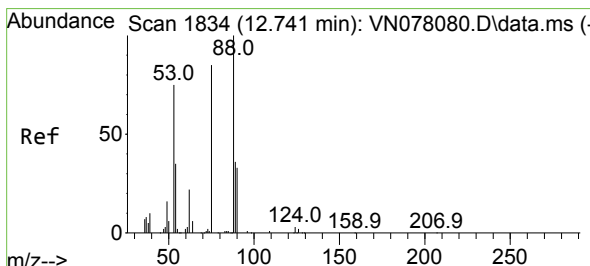
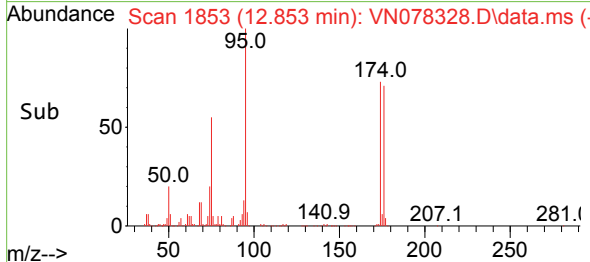
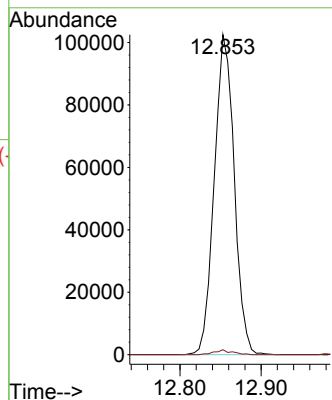
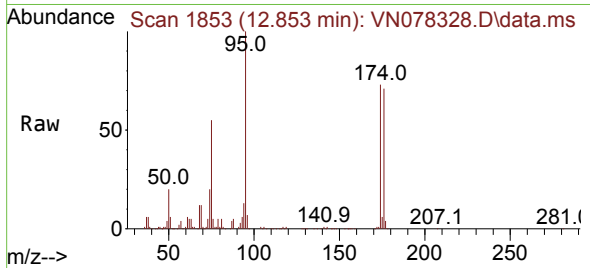




#76
1,2,3-Trichloropropane
Concen: 29.758 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Instrument :
MSVOA_N
ClientSampleId :
WC-3

Tgt Ion: 75 Resp: 174907
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.426 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078328.D
Acq: 21 Jun 2023 17:35

Tgt Ion: 75 Resp: 174907
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

