

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061923\
 Data File : VN078290.D
 Acq On : 19 Jun 2023 19:50
 Operator : JC\MD
 Sample : 03320-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-13

Quant Time: Jun 20 01:34:21 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)

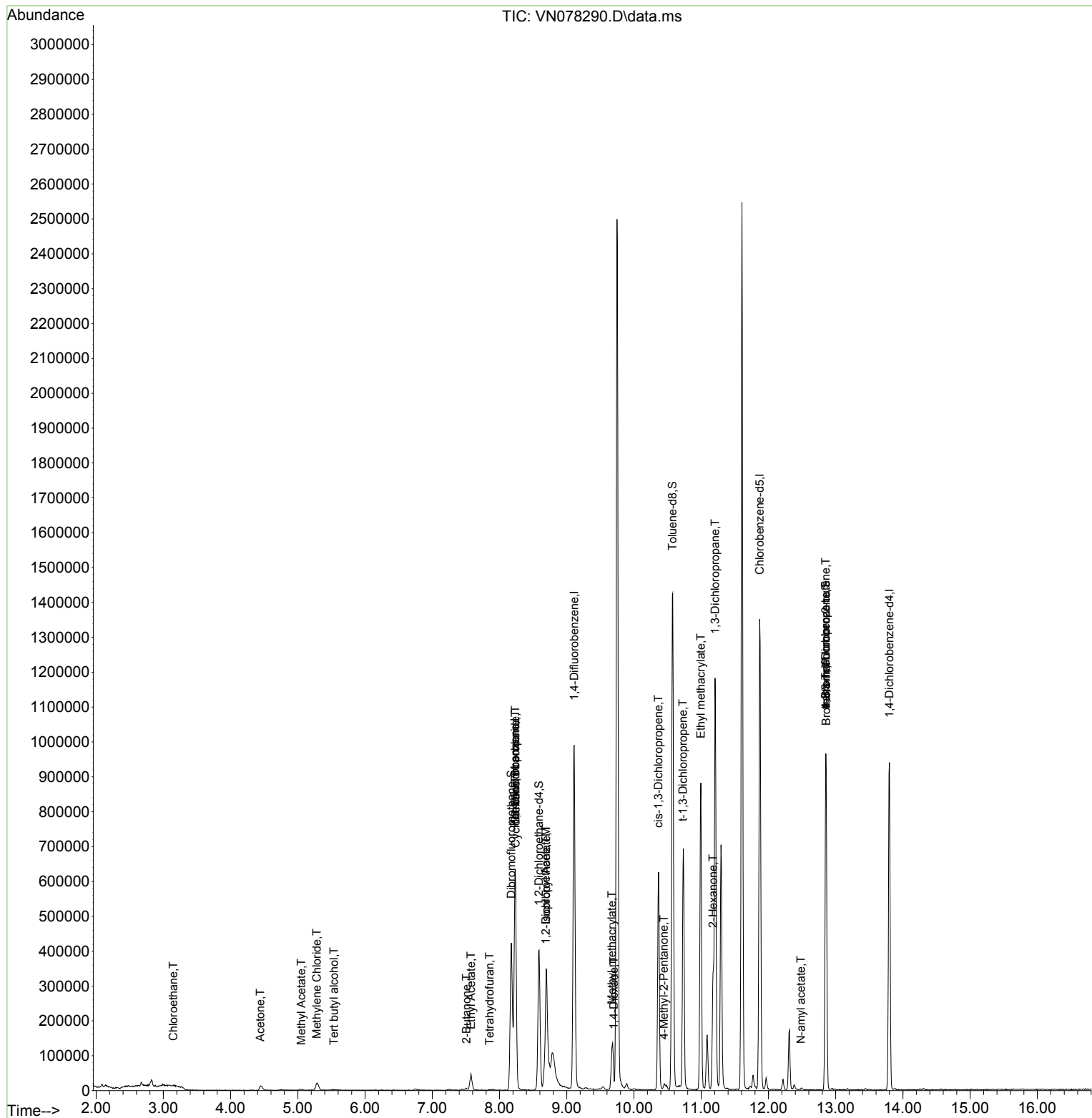
Internal Standards						
1) Pentafluorobenzene	8.230	168	457015	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	878927	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	815018	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	253950	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	331946	54.476	ug/l	0.00
Spiked Amount 50.000	Range 74	- 125	Recovery	=	108.960%	
35) Dibromofluoromethane	8.177	113	300000	53.983	ug/l	0.00
Spiked Amount 50.000	Range 75	- 124	Recovery	=	107.960%	
50) Toluene-d8	10.571	98	1044284	48.743	ug/l	0.00
Spiked Amount 50.000	Range 86	- 113	Recovery	=	97.480%	
62) 4-Bromofluorobenzene	12.853	95	336665	50.549	ug/l	0.00
Spiked Amount 50.000	Range 83	- 123	Recovery	=	101.100%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1244	Below Cal	#	81
6) Chloroethane	3.148	64	1380	0.299	ug/l #	43
11) Tert butyl alcohol	5.536	59	1432	1.702	ug/l #	72
16) Acetone	4.442	43	25218	14.378	ug/l #	81
18) Methyl Acetate	5.053	43	4961	0.614	ug/l #	66
20) Methylene Chloride	5.283	84	15753	2.718	ug/l	89
25) 2-Butanone	7.506	43	8212	3.045	ug/l #	80
29) Tetrahydrofuran	7.853	42	750	0.416	ug/l #	33
31) Cyclohexane	8.241	56	10398	1.330	ug/l #	35
36) 1,1-Dichloropropene	8.236	75	39761	4.988	ug/l #	48
37) Ethyl Acetate	7.577	43	63120	10.136	ug/l #	94
38) Carbon Tetrachloride	8.236	117	49934	5.933	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	2221	0.272	ug/l #	73
43) Isopropyl Acetate	8.694	43	426535	35.815	ug/l #	75
48) Methyl methacrylate	9.671	41	8020	1.605	ug/l #	31
49) 1,4-Dioxane	9.700	88	102	0.971	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	9352	1.491	ug/l	94
53) t-1,3-Dichloropropene	10.730	75	1815	0.215	ug/l #	80
54) cis-1,3-Dichloropropene	10.365	75	111706	11.978	ug/l #	72
56) Ethyl methacrylate	10.994	69	3258	0.394	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	12839	1.338	ug/l #	42
59) 2-Hexanone	11.177	43	251772	57.658	ug/l #	19
71) Bromoform	12.859	173	3164	0.764	ug/l #	1
74) N-amyl acetate	12.482	43	1697	0.215	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	12.941	83	70	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	180032	29.988	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	180032	92.133	ug/l #	15

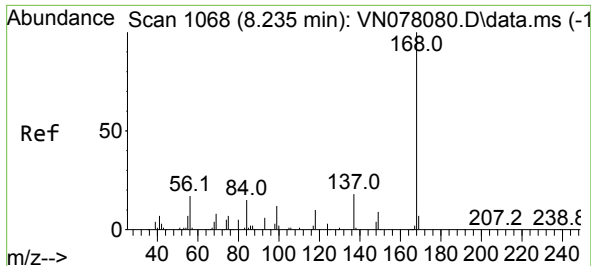
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration

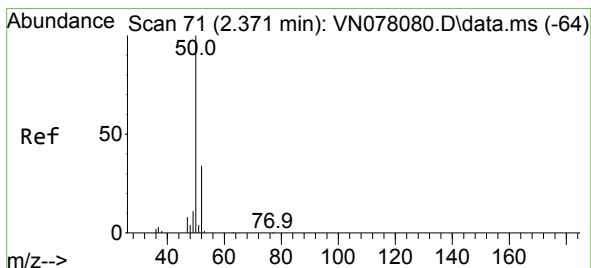
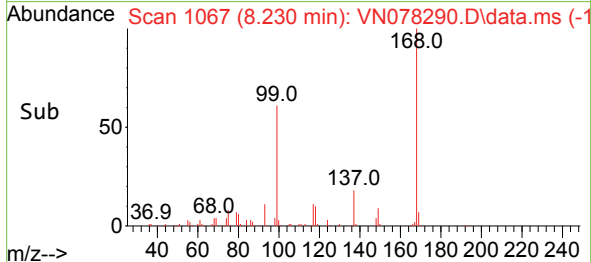
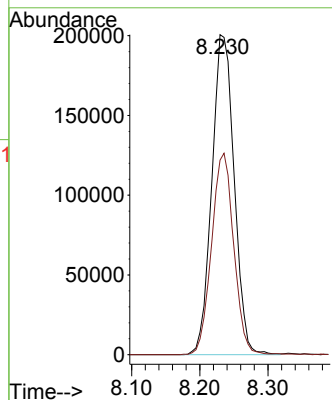
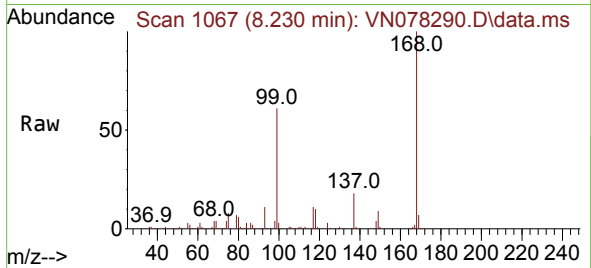




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.005 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

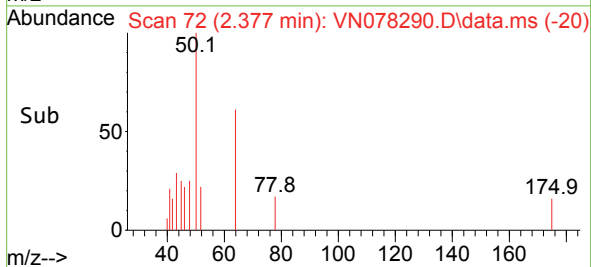
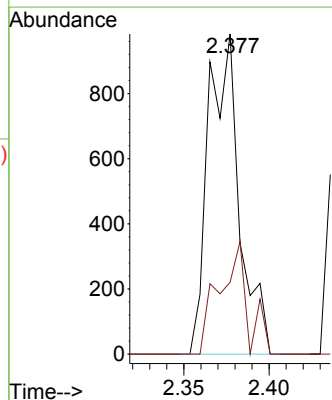
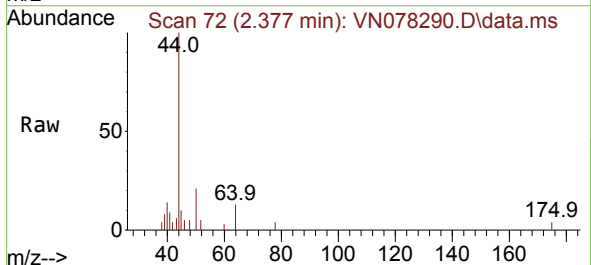
Instrument :
MSVOA_N
ClientSampleId :
WC-13

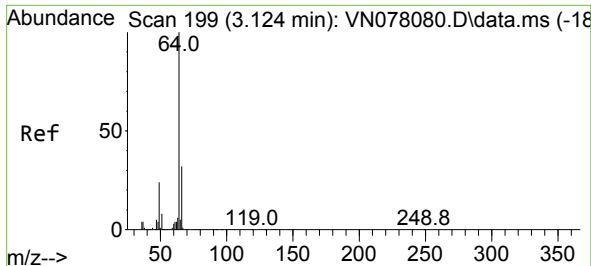
Tgt Ion:168 Resp: 457015
Ion Ratio Lower Upper
168 100
99 60.8 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

Tgt Ion: 50 Resp: 1244
Ion Ratio Lower Upper
50 100
52 22.5 26.5 39.7#

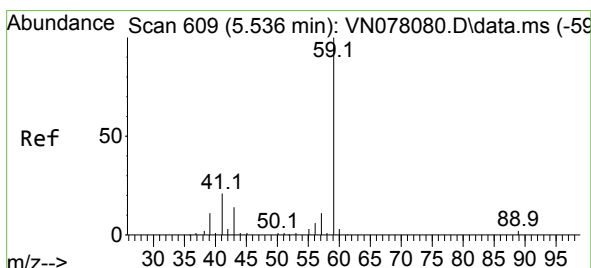
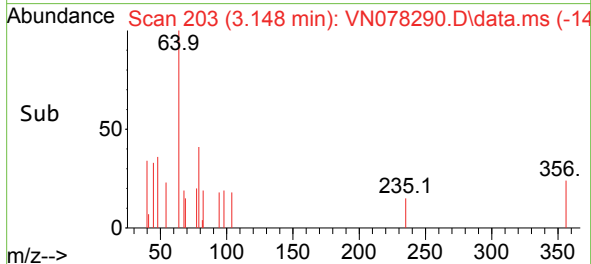
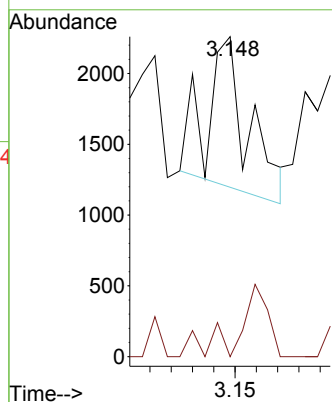
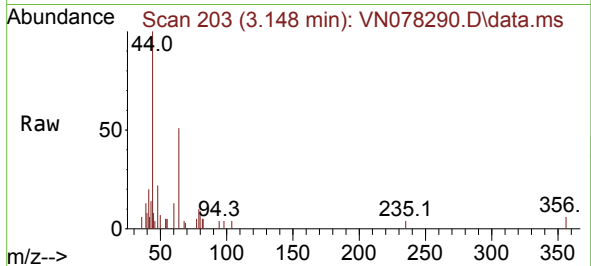




#6
Chloroethane
Concen: 0.299 ug/l
RT: 3.148 min Scan# 203
Delta R.T. 0.024 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

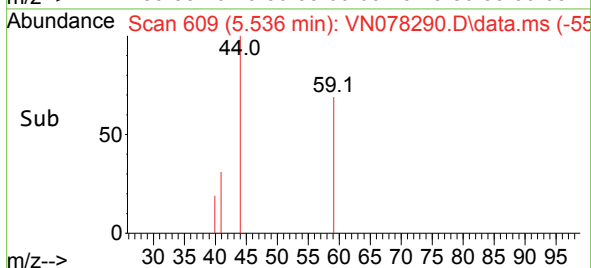
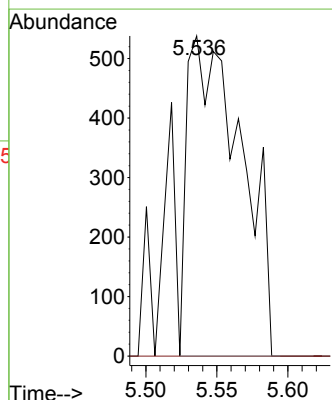
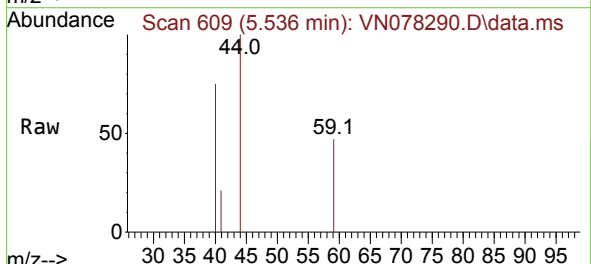
Instrument :
MSVOA_N
ClientSampleId :
WC-13

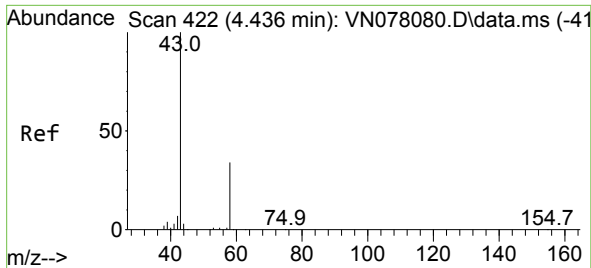
Tgt Ion: 64 Resp: 1380
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 1.702 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.000 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

Tgt Ion: 59 Resp: 1432
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 14.378 ug/l

RT: 4.442 min Scan# 43

Delta R.T. 0.006 min

Lab File: VN078290.D

Acq: 19 Jun 2023 19:50

Instrument :

MSVOA_N

ClientSampleId :

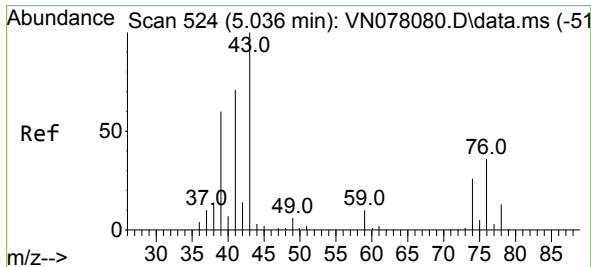
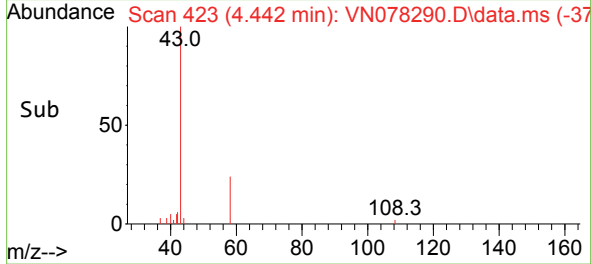
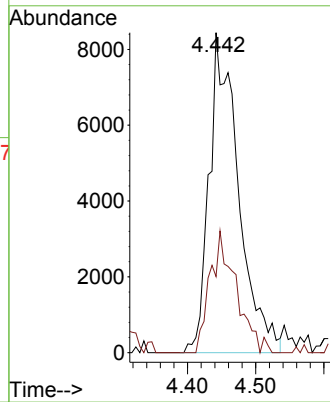
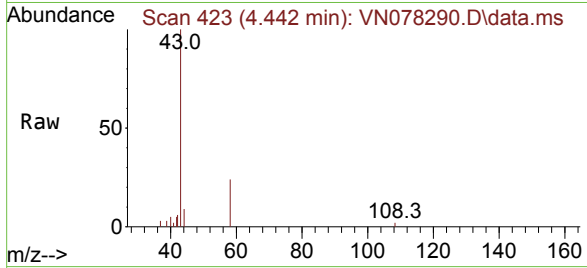
WC-13

Tgt Ion: 43 Resp: 25218

Ion Ratio Lower Upper

43 100

58 23.8 28.0 42.0#



#18

Methyl Acetate

Concen: 0.614 ug/l

RT: 5.053 min Scan# 527

Delta R.T. 0.018 min

Lab File: VN078290.D

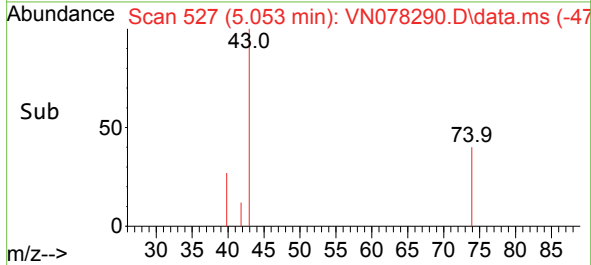
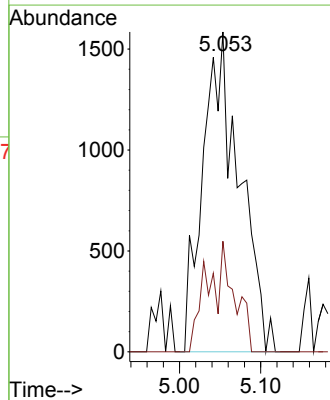
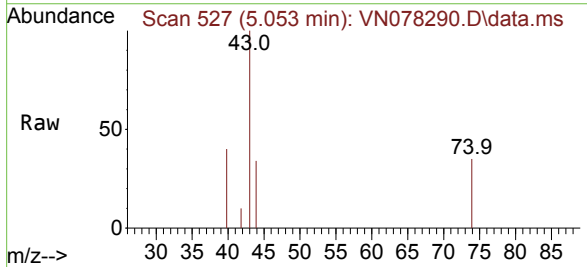
Acq: 19 Jun 2023 19:50

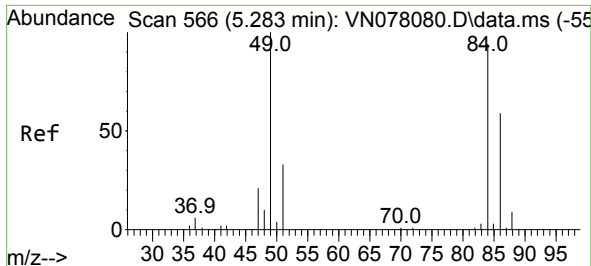
Tgt Ion: 43 Resp: 4961

Ion Ratio Lower Upper

43 100

74 13.4 26.2 39.4#

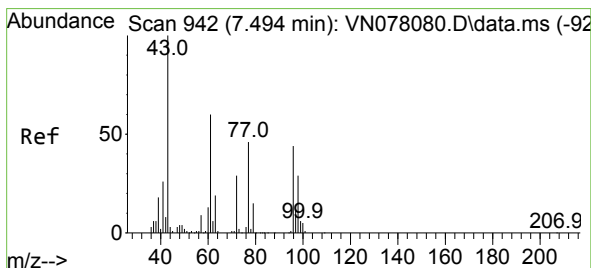
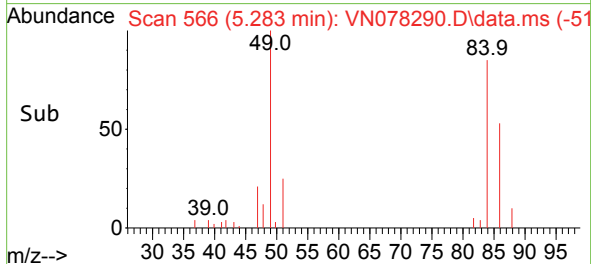
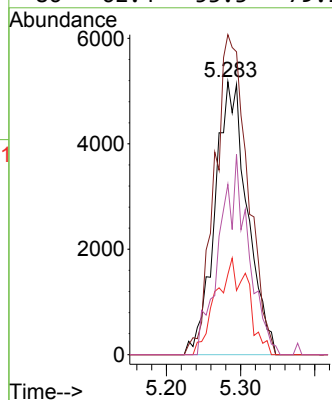
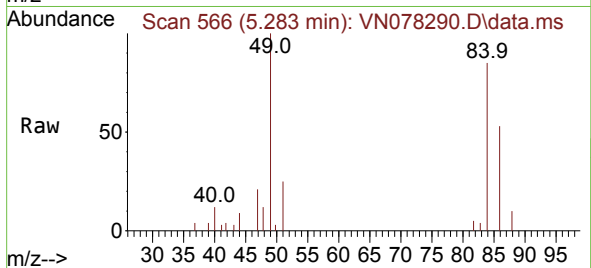




#20
Methylene Chloride
Concen: 2.718 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

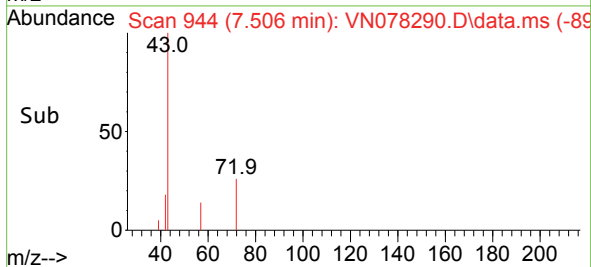
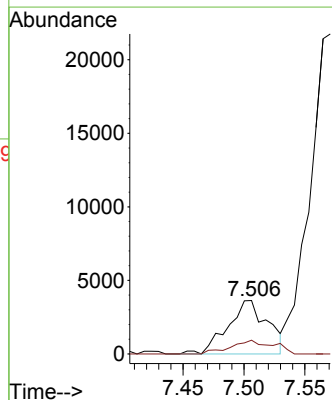
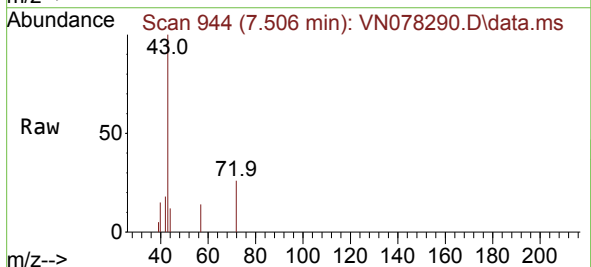
Instrument :
MSVOA_N
ClientSampleId :
WC-13

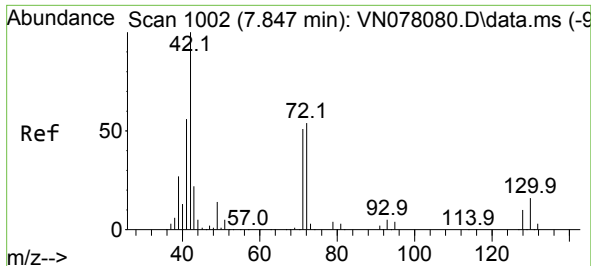
Tgt Ion: 84	Resp: 15753		
Ion	Ratio	Lower	Upper
84	100		
49	117.2	79.7	119.5
51	29.5	25.2	37.8
86	62.4	53.3	79.9



#25
2-Butanone
Concen: 3.045 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

Tgt Ion: 43	Resp: 8212		
Ion Ratio	Lower	Upper	
43 100			
72 25.8	30.2	45.2#	





#29

Tetrahydrofuran

Concen: 0.416 ug/l

RT: 7.853 min Scan# 1069

Delta R.T. 0.006 min

Lab File: VN078290.D

Acq: 19 Jun 2023 19:50

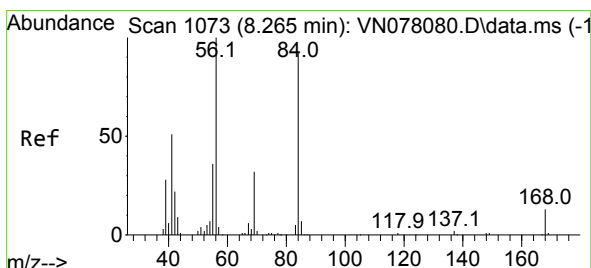
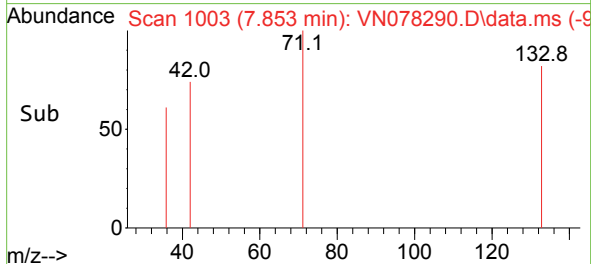
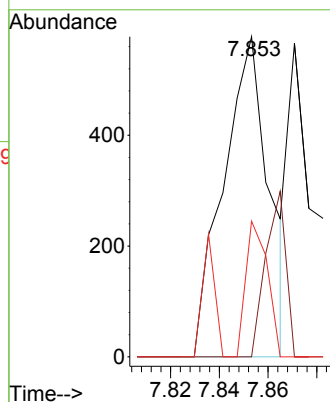
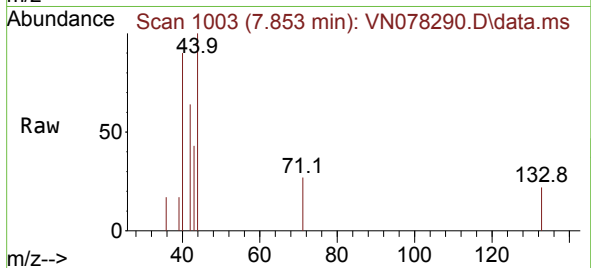
Instrument :

MSVOA_N

ClientSampleId :

WC-13

Tgt Ion: 42	Resp:	750
Ion	Ratio	Lower Upper
42	100	
72	0.0	49.8 74.6#
71	20.1	47.4 71.2#



#31

Cyclohexane

Concen: 1.330 ug/l

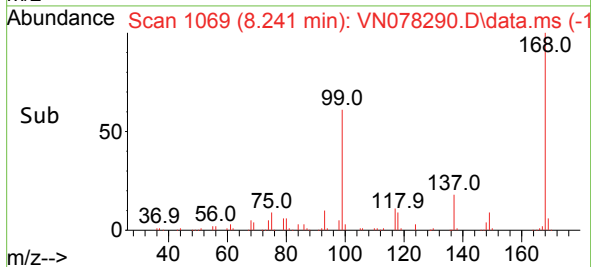
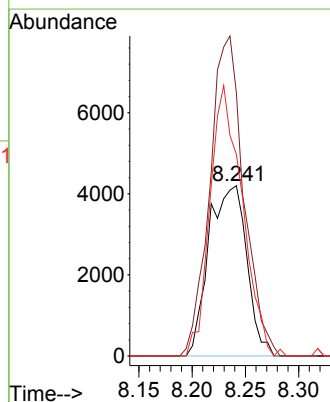
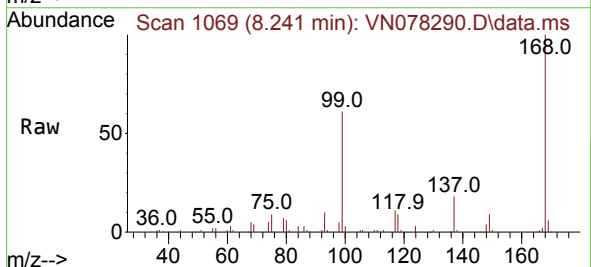
RT: 8.241 min Scan# 1069

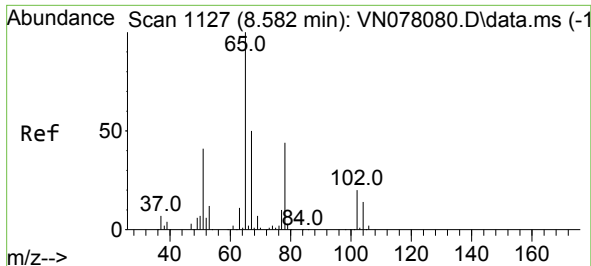
Delta R.T. -0.023 min

Lab File: VN078290.D

Acq: 19 Jun 2023 19:50

Tgt Ion: 56	Resp:	10398
Ion	Ratio	Lower Upper
56	100	
69	154.8	26.8 40.2#
84	118.5	81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 54.476 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078290.D

Acq: 19 Jun 2023 19:50

Instrument :

MSVOA_N

ClientSampleId :

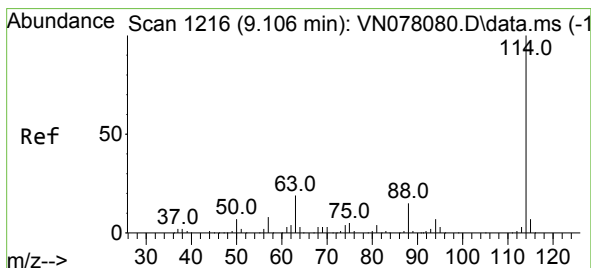
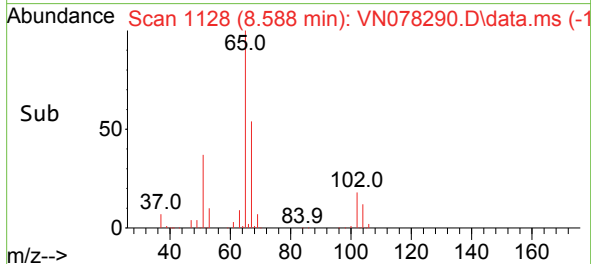
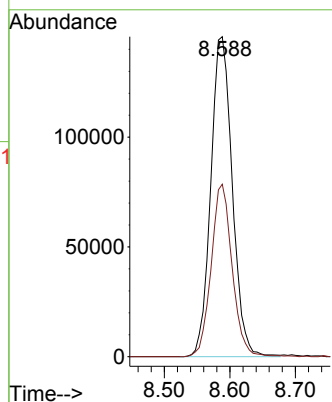
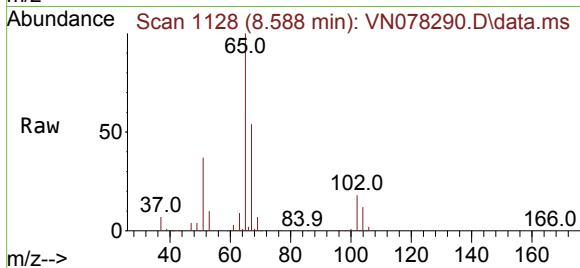
WC-13

Tgt Ion: 65 Resp: 331946

Ion Ratio Lower Upper

65 100

67 52.6 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: VN078290.D

Acq: 19 Jun 2023 19:50

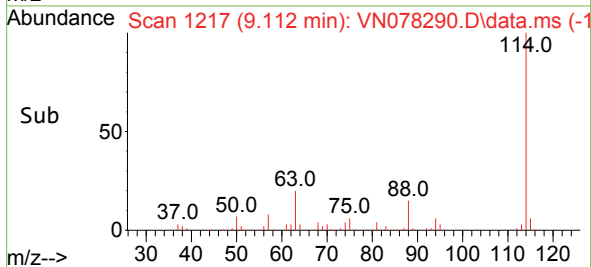
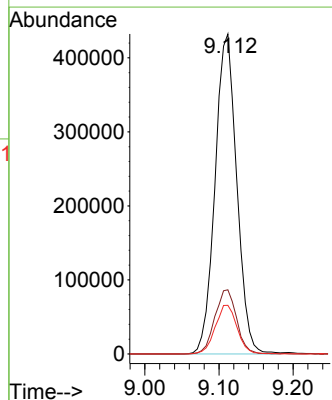
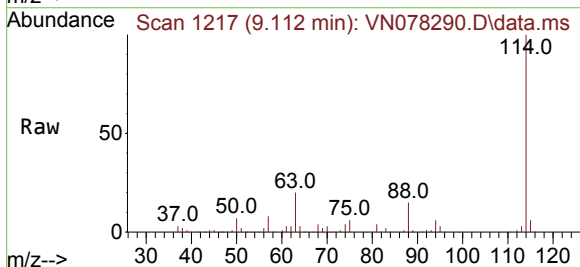
Tgt Ion: 114 Resp: 878927

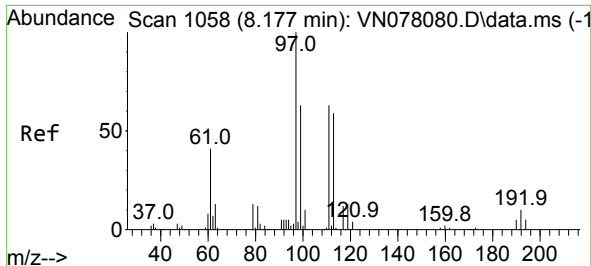
Ion Ratio Lower Upper

114 100

63 20.0 0.0 36.4

88 15.2 0.0 30.6

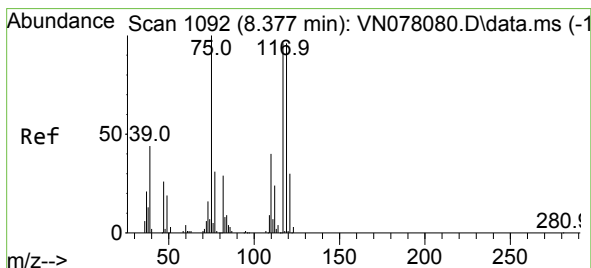
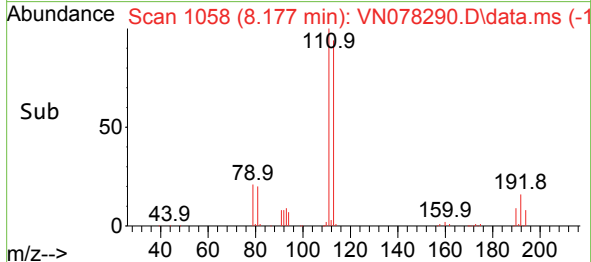
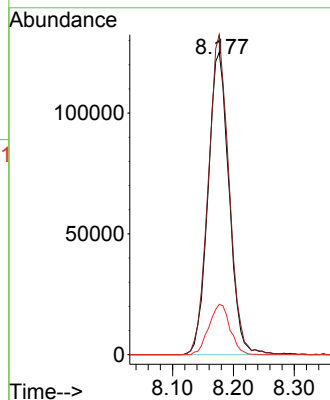
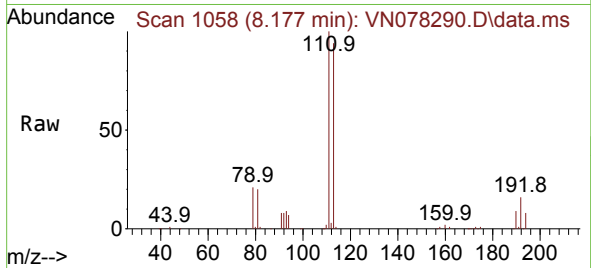




#35
 Dibromofluoromethane
 Concen: 53.983 ug/l
 RT: 8.177 min Scan# 1058
 Delta R.T. 0.000 min
 Lab File: VN078290.D
 Acq: 19 Jun 2023 19:50

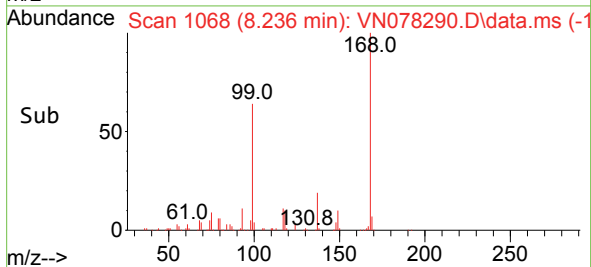
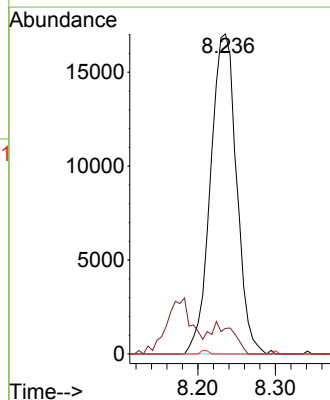
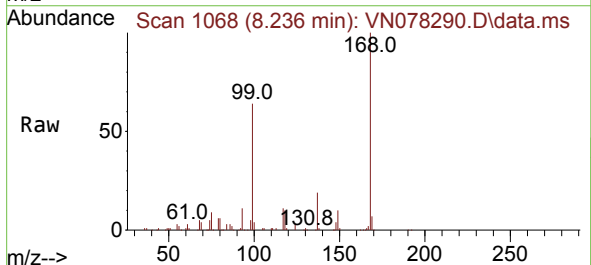
Instrument :
 MSVOA_N
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 WC-13

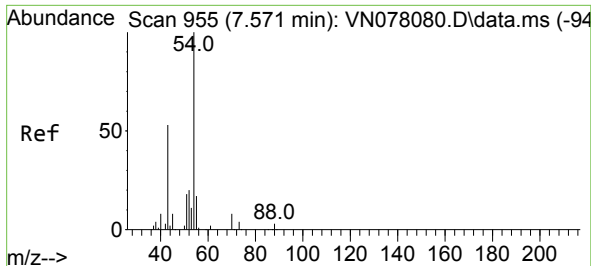
Tgt Ion:113 Resp: 300000
 Ion Ratio Lower Upper
 113 100
 111 104.6 82.6 123.8
 192 16.8 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 4.988 ug/l
 RT: 8.236 min Scan# 1068
 Delta R.T. -0.141 min
 Lab File: VN078290.D
 Acq: 19 Jun 2023 19:50

Tgt Ion: 75 Resp: 39761
 Ion Ratio Lower Upper
 75 100
 110 8.9 19.1 57.3#
 77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 10.136 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN078290.D

Acq: 19 Jun 2023 19:50

Instrument :

MSVOA_N

ClientSampleId :

WC-13

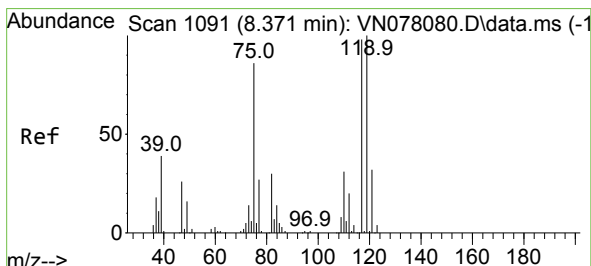
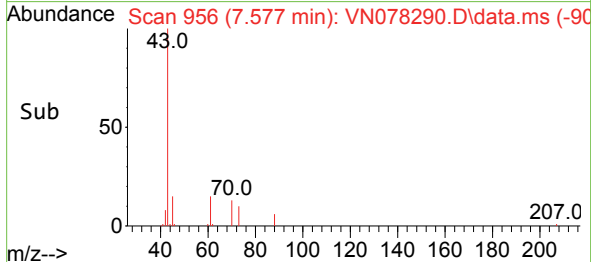
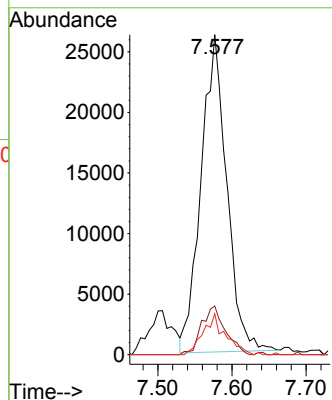
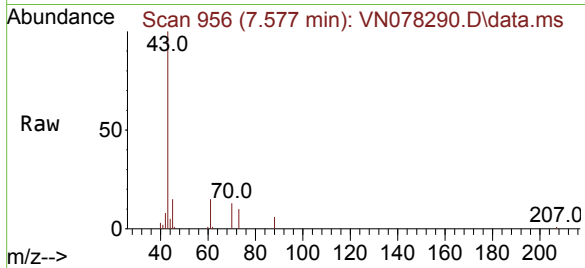
Tgt Ion: 43 Resp: 63120

Ion Ratio Lower Upper

43 100

61 14.2 13.2 19.8

70 11.0 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 5.933 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.135 min

Lab File: VN078290.D

Acq: 19 Jun 2023 19:50

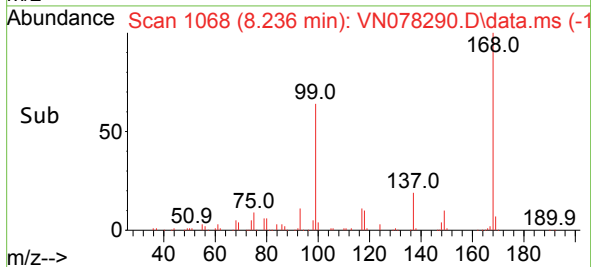
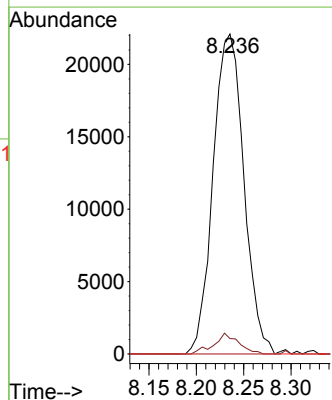
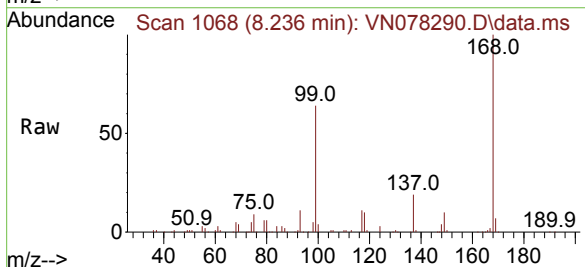
Tgt Ion: 117 Resp: 49934

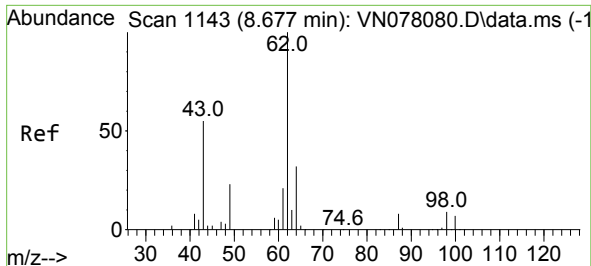
Ion Ratio Lower Upper

117 100

119 4.8 77.3 115.9#

121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.272 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.012 min

Lab File: VN078290.D

Acq: 19 Jun 2023 19:50

Instrument :

MSVOA_N

ClientSampleId :

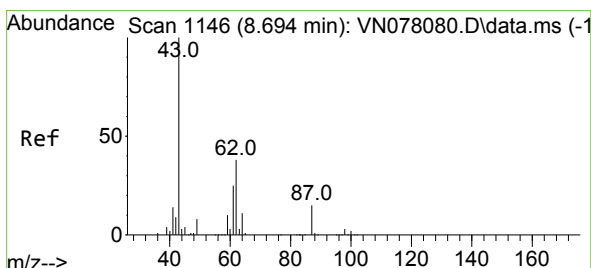
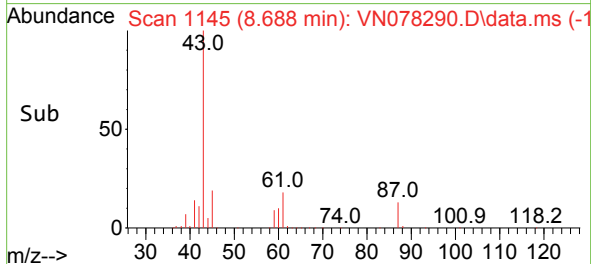
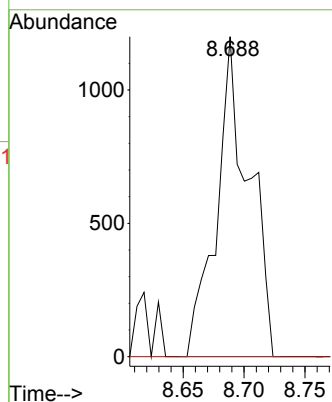
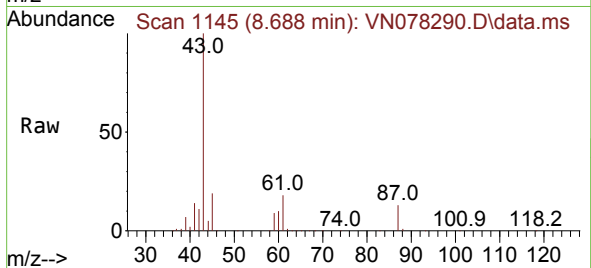
WC-13

Tgt Ion: 62 Resp: 2221

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 35.815 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078290.D

Acq: 19 Jun 2023 19:50

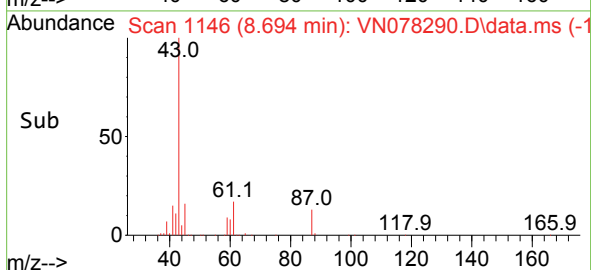
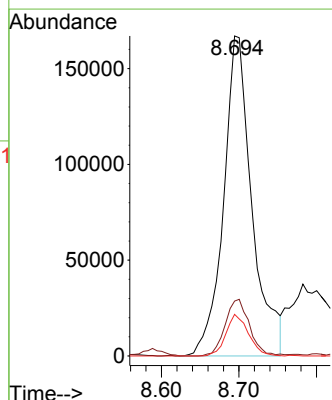
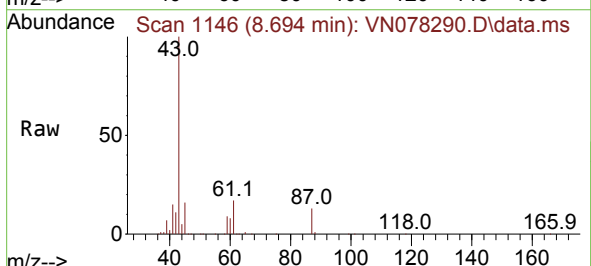
Tgt Ion: 43 Resp: 426535

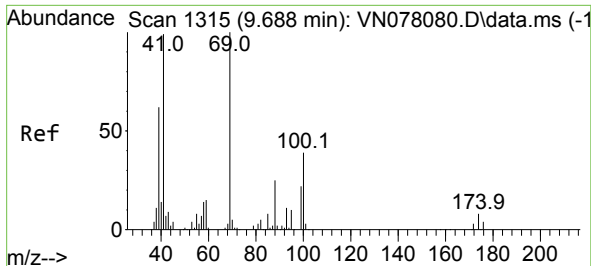
Ion Ratio Lower Upper

43 100

61 15.2 24.7 37.1#

87 10.3 14.6 21.8#

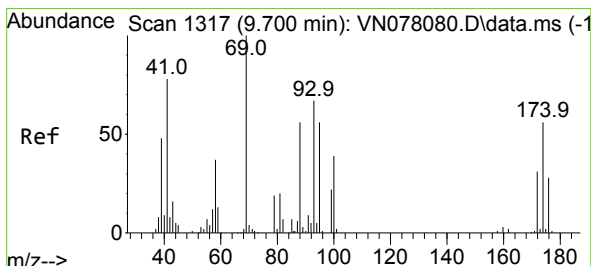
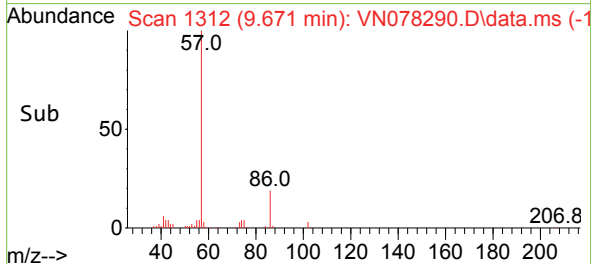
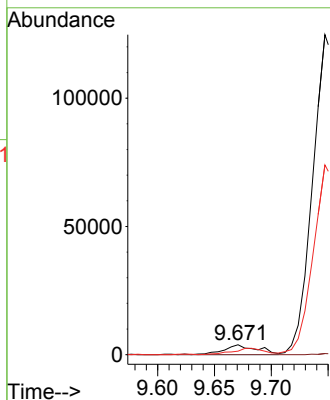
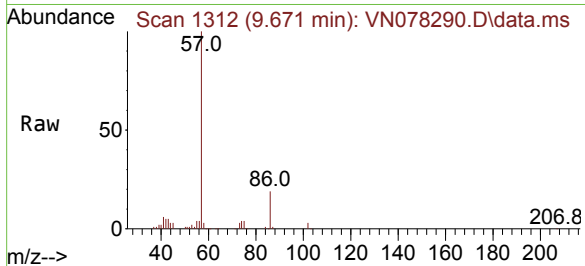




#48
Methyl methacrylate
Concen: 1.605 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

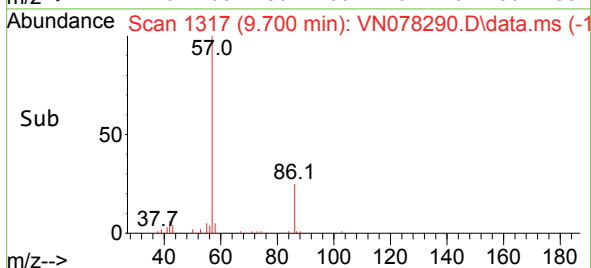
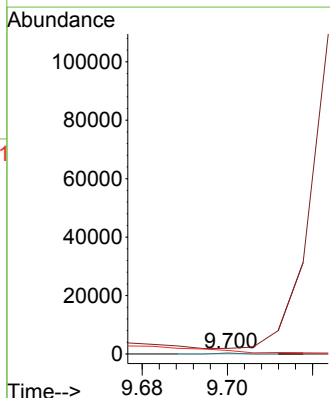
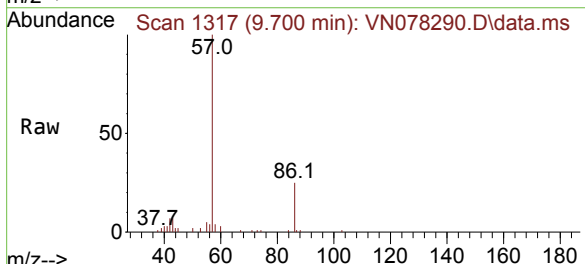
Instrument :
MSVOA_N
ClientSampleId :
WC-13

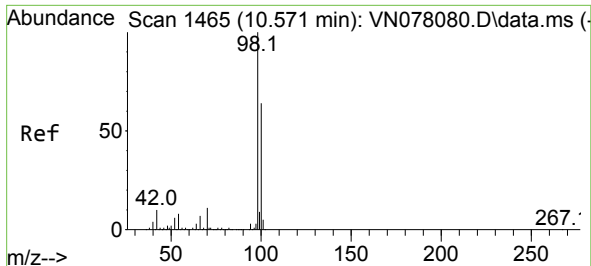
Tgt Ion: 41 Resp: 8020
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 61.3 54.6 81.8



#49
1,4-Dioxane
Concen: 0.971 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

Tgt Ion: 88 Resp: 102
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

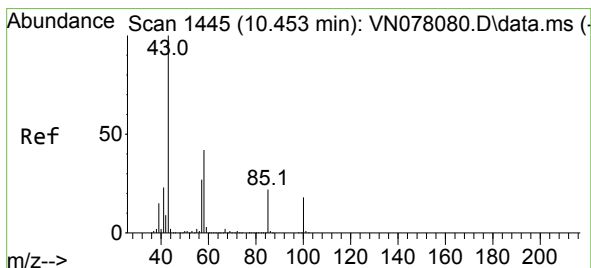
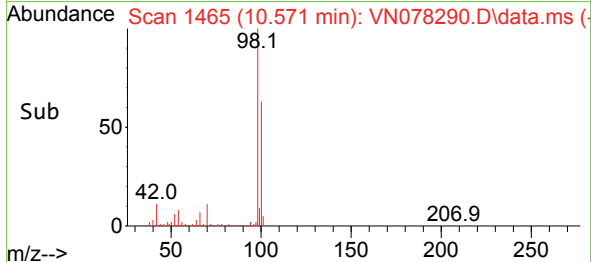
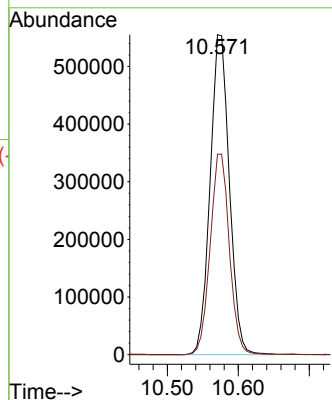
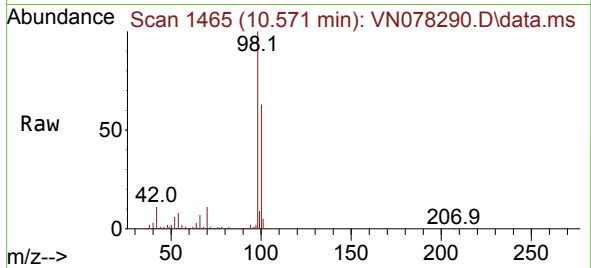




#50
Toluene-d8
Concen: 48.743 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

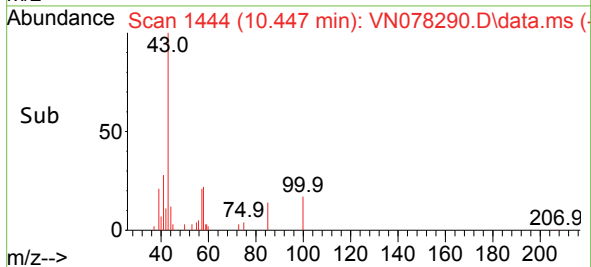
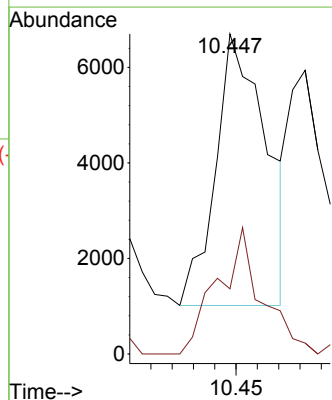
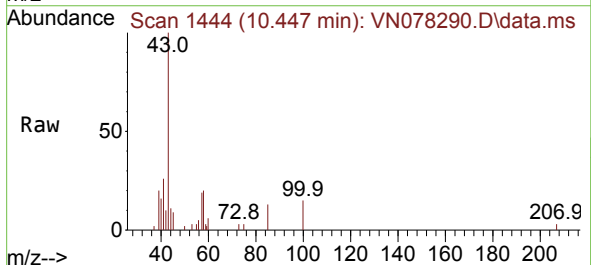
Instrument :
MSVOA_N
ClientSampleId :
WC-13

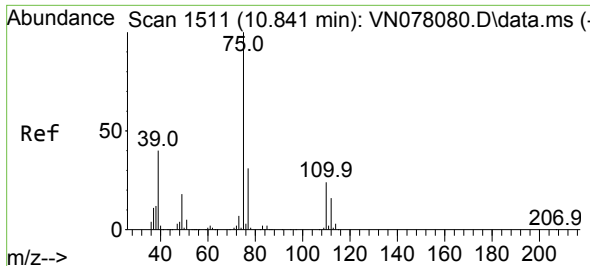
Tgt Ion: 98 Resp: 1044284
Ion Ratio Lower Upper
98 100
100 62.6 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.491 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

Tgt Ion: 43 Resp: 9352
Ion Ratio Lower Upper
43 100
58 41.6 36.6 54.8

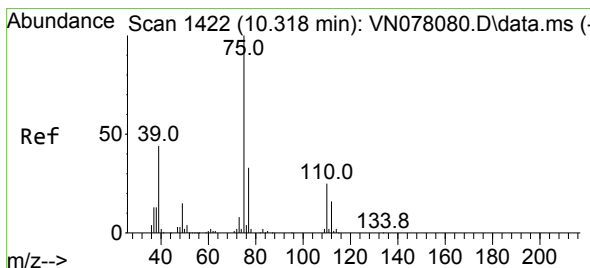
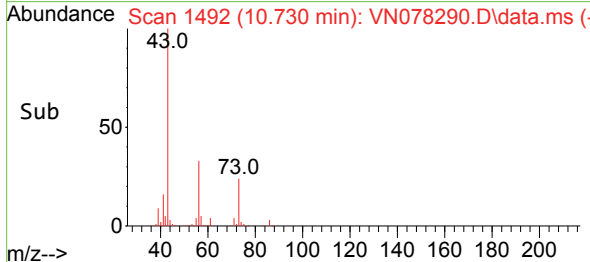
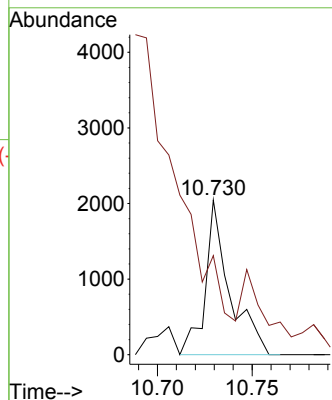
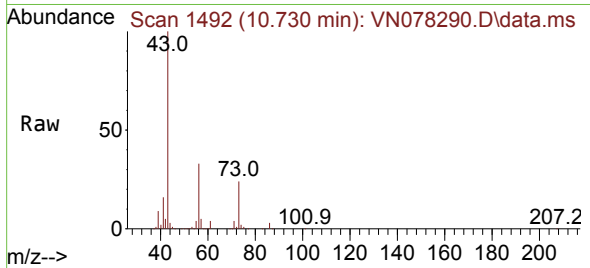




#53
t-1,3-Dichloropropene
Concen: 0.215 ug/l
RT: 10.730 min Scan# 14
Delta R.T. -0.112 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

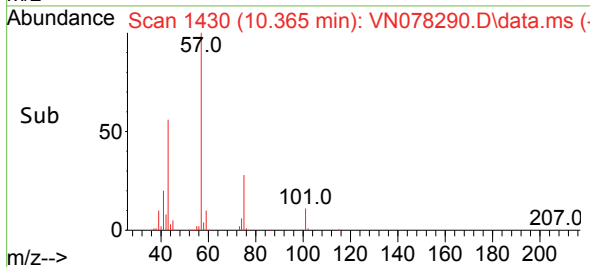
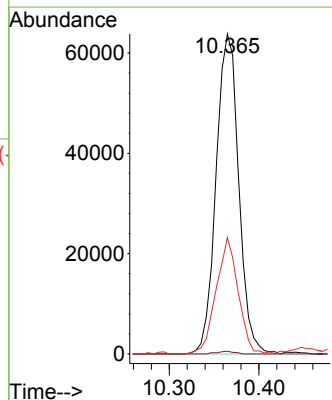
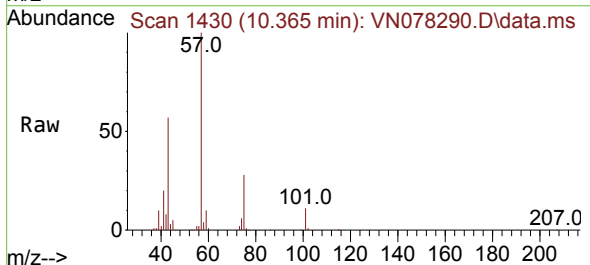
Instrument :
MSVOA_N
ClientSampleId :
WC-13

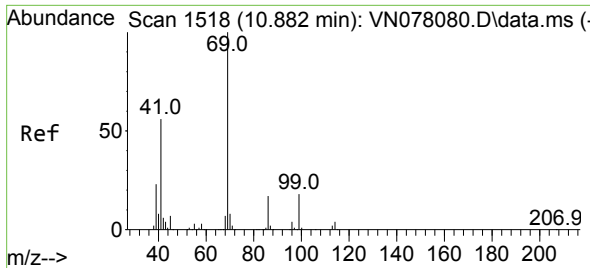
Tgt Ion: 75 Resp: 1815
Ion Ratio Lower Upper
75 100
77 42.9 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 11.978 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

Tgt Ion: 75 Resp: 111706
Ion Ratio Lower Upper
75 100
77 0.9 26.1 39.1#
39 36.4 31.6 47.4

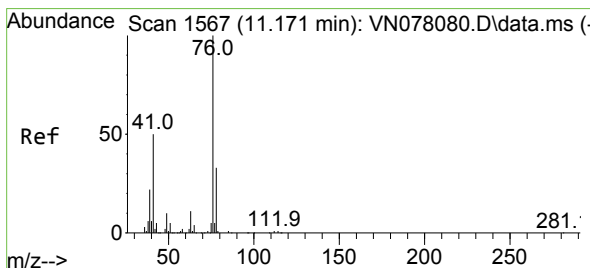
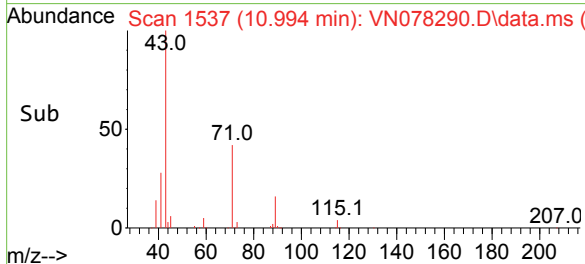
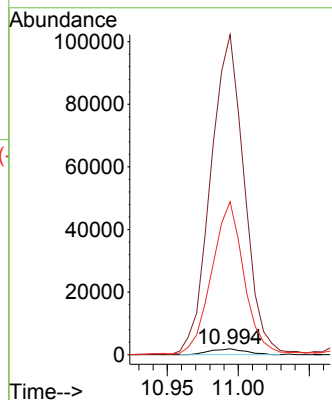
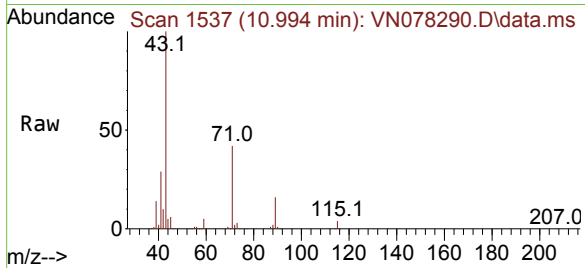




#56
Ethyl methacrylate
Concen: 0.394 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.112 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

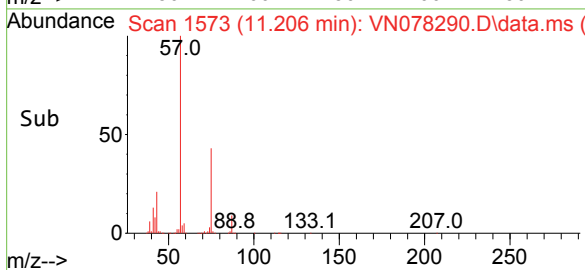
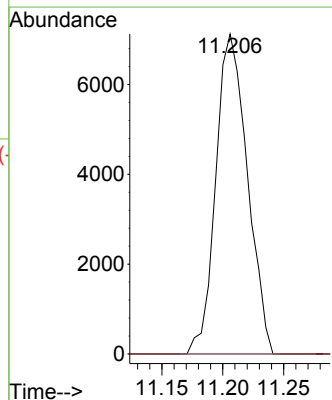
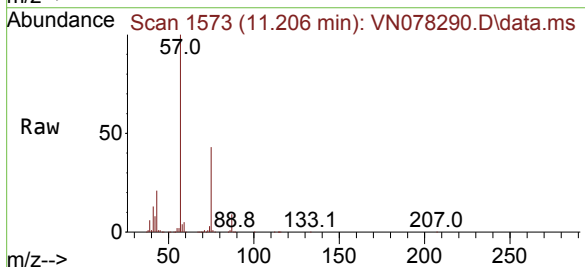
Instrument :
MSVOA_N
ClientSampleId :
WC-13

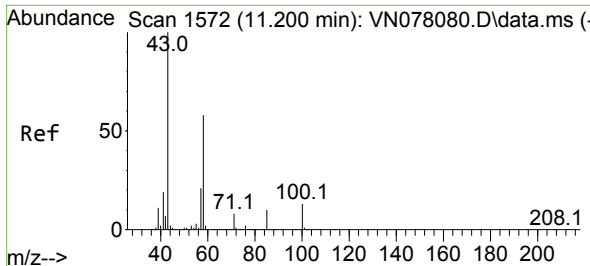
Tgt Ion: 69 Resp: 3258
Ion Ratio Lower Upper
69 100
41 5168.8 39.6 59.4#
39 2400.5 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.338 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

Tgt Ion: 76 Resp: 12839
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

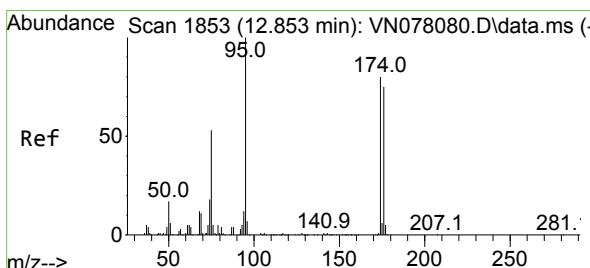
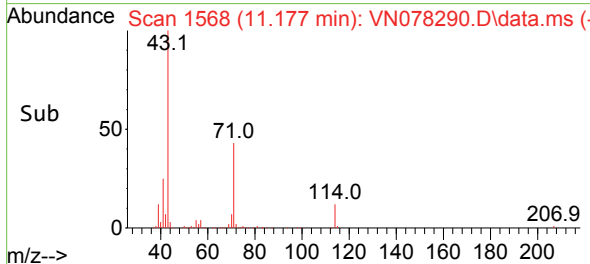
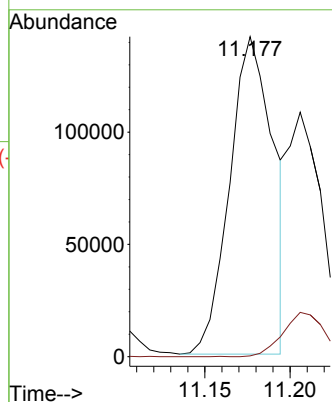
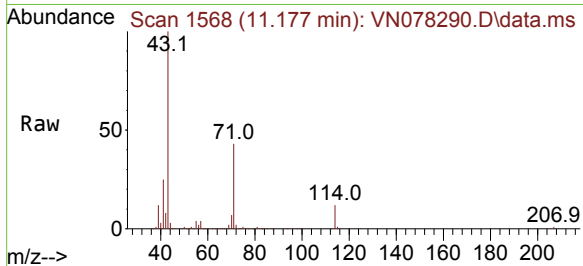




#59
2-Hexanone
Concen: 57.658 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

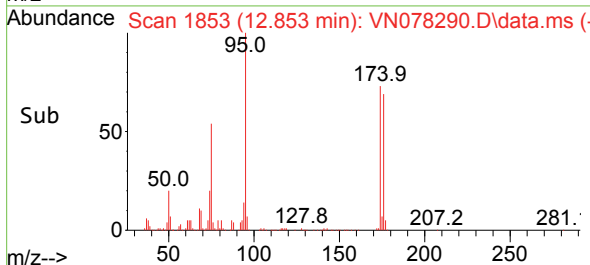
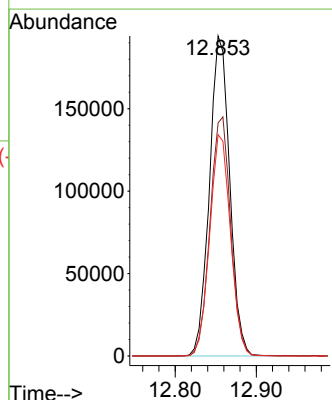
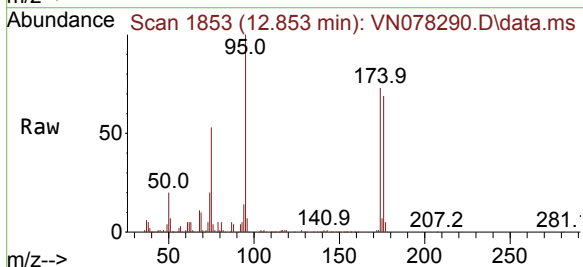
Instrument :
MSVOA_N
ClientSampleId :
WC-13

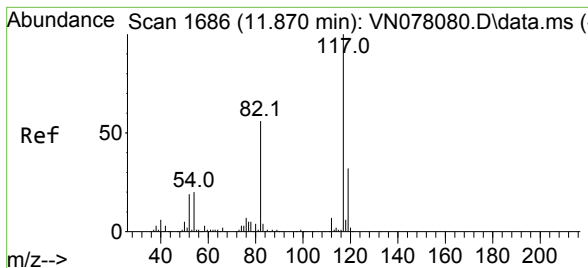
Tgt Ion: 43 Resp: 251772
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 50.549 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

Tgt Ion: 95 Resp: 336665
Ion Ratio Lower Upper
95 100
174 76.3 0.0 143.8
176 70.7 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: VN078290.D

Acq: 19 Jun 2023 19:50

Instrument :

MSVOA_N

ClientSampleId :

WC-13

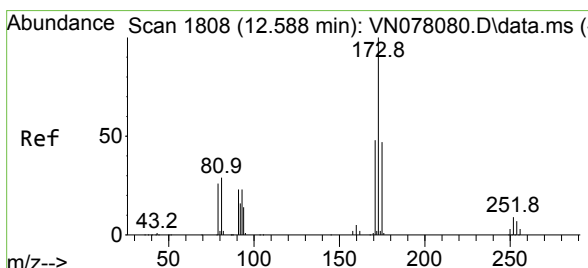
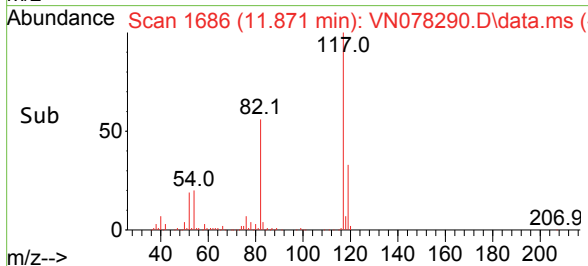
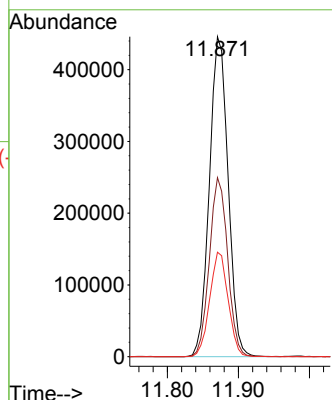
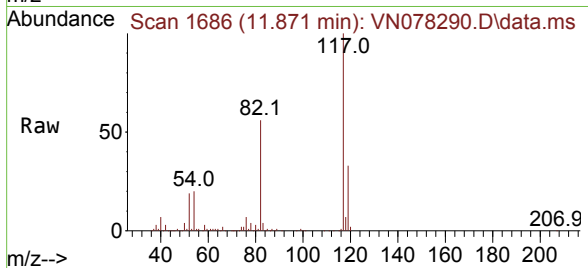
Tgt Ion:117 Resp: 815018

Ion Ratio Lower Upper

117 100

82 55.9 44.0 66.0

119 32.7 25.6 38.4



#71

Bromoform

Concen: 0.764 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.271 min

Lab File: VN078290.D

Acq: 19 Jun 2023 19:50

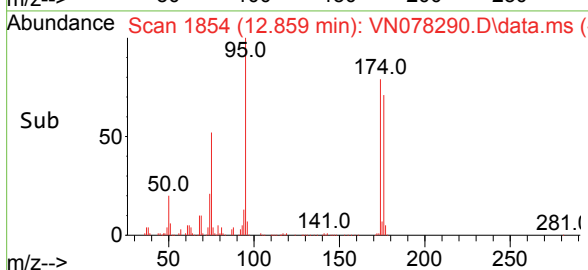
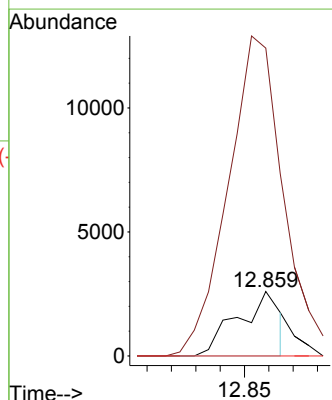
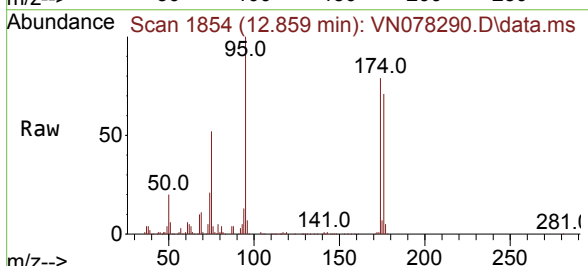
Tgt Ion:173 Resp: 3164

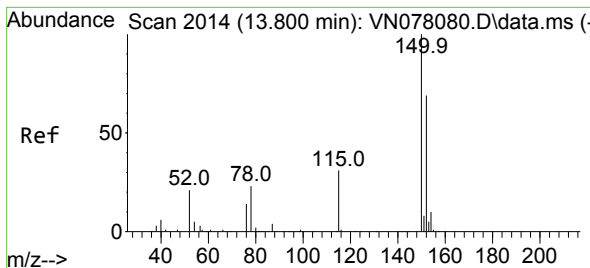
Ion Ratio Lower Upper

173 100

175 570.4 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: VN078290.D

Acq: 19 Jun 2023 19:50

Instrument :

MSVOA_N

ClientSampleId :

WC-13

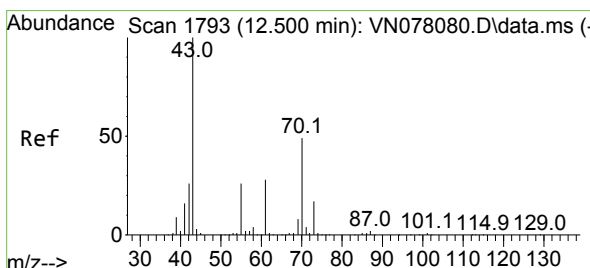
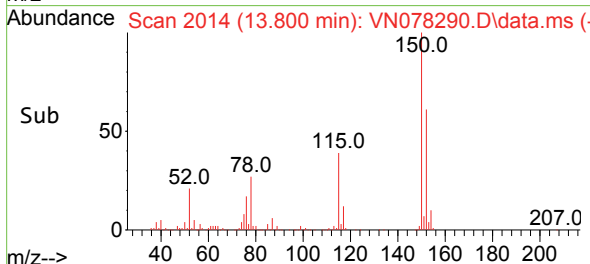
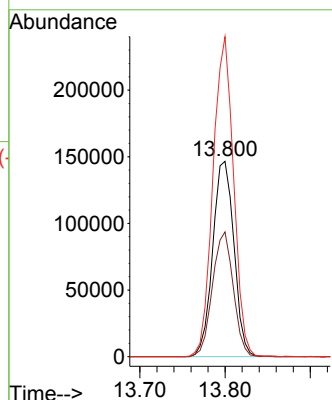
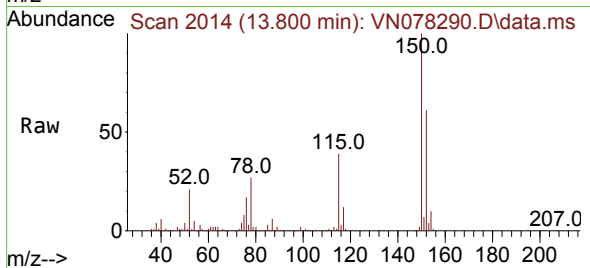
Tgt Ion:152 Resp: 253950

Ion Ratio Lower Upper

152 100

115 62.5 32.3 96.8

150 158.6 0.0 355.8



#74

N-ethyl acetate

Concen: 0.215 ug/l

RT: 12.482 min Scan# 1790

Delta R.T. -0.018 min

Lab File: VN078290.D

Acq: 19 Jun 2023 19:50

Tgt Ion: 43 Resp: 1697

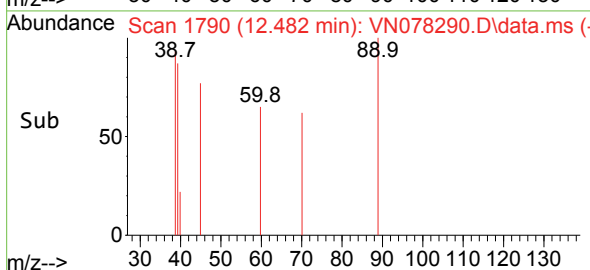
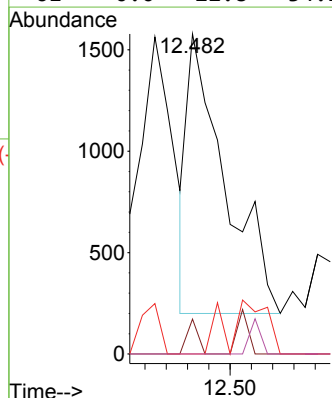
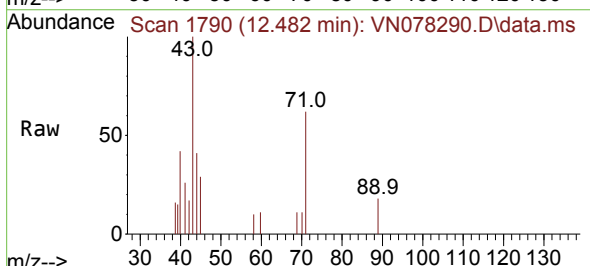
Ion Ratio Lower Upper

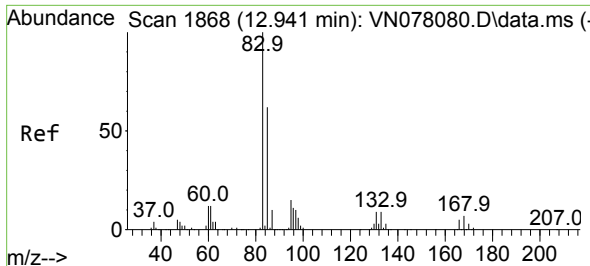
43 100

70 3.6 43.4 65.2#

55 9.1 21.4 32.0#

61 0.0 22.8 34.2#

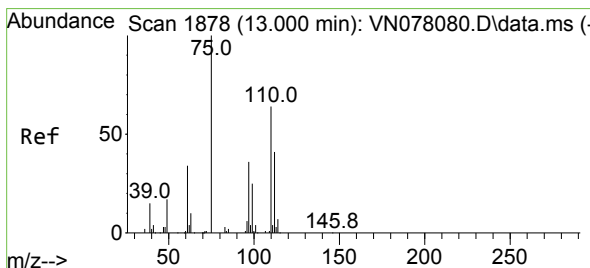
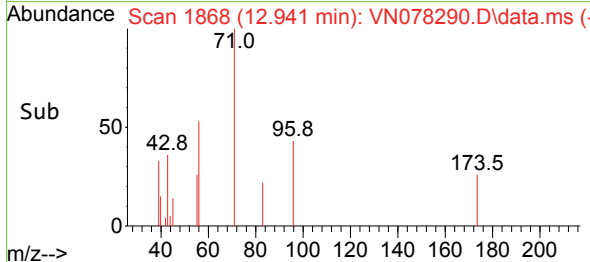
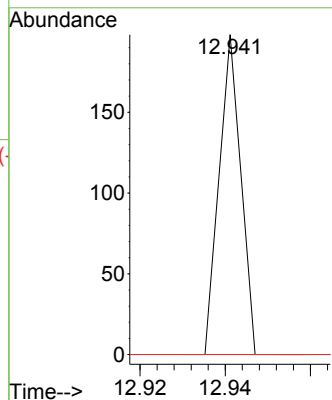
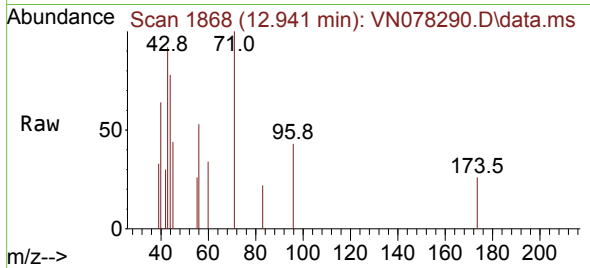




#75
1,1,2-Tetrachloroethane
Concen: Below Cal
RT: 12.941 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

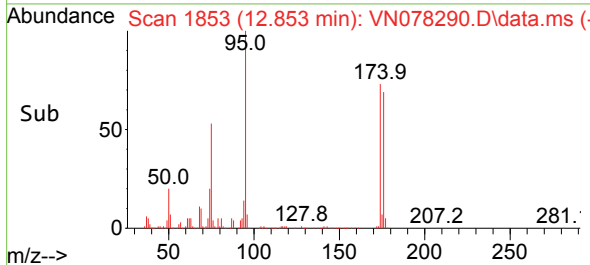
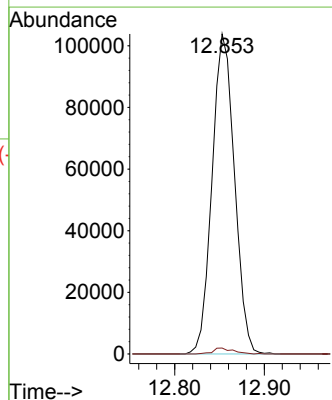
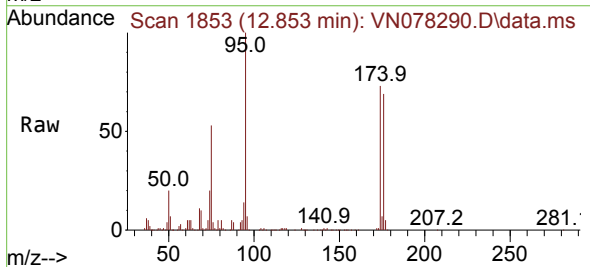
Instrument :
MSVOA_N
ClientSampleId :
WC-13

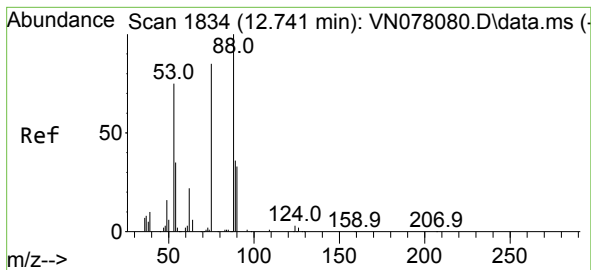
Tgt Ion: 83 Resp: 70
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 29.988 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078290.D
Acq: 19 Jun 2023 19:50

Tgt Ion: 75 Resp: 180032
Ion Ratio Lower Upper
75 100
77 1.7 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.133 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078290.D
 Acq: 19 Jun 2023 19:50

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-13

Tgt Ion: 75 Resp: 180032
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

